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.:	RFBCKS-WTW-P23080370
FCC ID:	NKR-UMCSTD35HN
Product:	Automotive 5G-NR NAD
Brand:	WNC
Model No.:	UMC-STD35HN
Received Date:	2023/8/17
Test Date:	2023/8/29 ~ 2023/9/15
Issued Date:	2024/1/4
Applicant:	Wistron NeWeb Corporation
Address:	1 20 Park Ave. II, Hsinchu Science Park, Hsinchu 308, Taiwan
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / Designation Number:	788550 / TW0003

Approved by: Jeremy Lin , **Date:** 2024/1/4

Jeremy Lin / Project Engineer

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Prepared by : Celine Chou / Senior Specialist

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Table of Contents

Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P23080370	Original release.	2024/1/4

1 Certificate

Product:	Automotive 5G-NR NAD
Brand:	WNC
Test Model:	UMC-STD35HN
Sample Status:	Engineering sample
Applicant:	Wistron NeWeb Corporation
Test Date:	2023/8/29 ~ 2023/9/15
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 90.635(b) Part 90.542(a)(7)	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)	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 90.691 Part 90.543(e)(f)	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 90.691 Part 90.543(e)(f)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -9.37 dB at 111.48 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 90.691 Part 90.543(e)(f)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -4.93 dB at 1559.00 MHz
Part 2.1055 Part 22.355 Part 24.235 Part 27.54 Part 90.213 Part 90.539(e)	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 (±)
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

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	Automotive 5G-NR NAD
Brand	WNC
Test Model	UMC-STD35HN
Status of EUT	Engineering sample
Power Supply Rating	4.7 Vdc

Note:

1. EUT Overview

Band / Bandwidth	TX Frequency Range (MHz)	Max. EIRP Power
GSM 1900	1850.2-1909.8	1588.547mW (32.01dBm)
WCDMA Band 2	1852.4-1907.6	414.954mW (26.18dBm)
WCDMA Band 4	1712.4-1752.6	428.549mW (26.32dBm)

Band / Bandwidth	TX Frequency Range (MHz)	Max. EIRP Power			
		QPSK	16QAM	64QAM	256QAM
LTE Band 2 (Channel Bandwidth 1.4 MHz)	1850.7-1909.3	322.107mW (25.08dBm)	292.415mW (24.66dBm)	225.424mW (23.53dBm)	113.501mW (20.55dBm)
LTE Band 2 (Channel Bandwidth 3 MHz)	1851.5-1908.5	319.890mW (25.05dBm)	279.898mW (24.47dBm)	225.424mW (23.53dBm)	112.720mW (20.52dBm)
LTE Band 2 (Channel Bandwidth 5 MHz)	1852.5-1907.5	319.890mW (25.05dBm)	297.852mW (24.74dBm)	229.615mW (23.61dBm)	115.345mW (20.62dBm)
LTE Band 2 (Channel Bandwidth 10 MHz)	1855.0-1905.0	319.154mW (25.04dBm)	288.403mW (24.60dBm)	225.424mW (23.53dBm)	113.763mW (20.56dBm)
LTE Band 2 (Channel Bandwidth 15 MHz)	1857.5-1902.5	318.420mW (25.03dBm)	282.488mW (24.51dBm)	222.331mW (23.47dBm)	115.080mW (20.61dBm)
LTE Band 2 (Channel Bandwidth 20 MHz)	1860.0-1900.0	323.594mW (25.10dBm)	287.078mW (24.58dBm)	219.786mW (23.42dBm)	109.648mW (20.40dBm)
LTE Band 4 (Channel Bandwidth 1.4 MHz)	1710.7-1754.3	309.030mW (24.90dBm)	272.270mW (24.35dBm)	211.836mW (23.26dBm)	102.094mW (20.09dBm)
LTE Band 4 (Channel Bandwidth 3 MHz)	1711.5-1753.5	316.228mW (25.00dBm)	271.644mW (24.34dBm)	215.278mW (23.33dBm)	104.232mW (20.18dBm)
LTE Band 4 (Channel Bandwidth 5 MHz)	1712.5-1752.5	319.890mW (25.05dBm)	273.527mW (24.37dBm)	215.278mW (23.33dBm)	103.753mW (20.16dBm)
LTE Band 4 (Channel Bandwidth 10 MHz)	1715.0-1750.0	319.154mW (25.04dBm)	269.774mW (24.31dBm)	212.814mW (23.28dBm)	103.039mW (20.13dBm)
LTE Band 4 (Channel Bandwidth 15 MHz)	1717.5-1747.5	316.228mW (25.00dBm)	269.774mW (24.31dBm)	212.814mW (23.28dBm)	103.276mW (20.14dBm)
LTE Band 4 (Channel Bandwidth 20 MHz)	1720.0-1745.0	321.366mW (25.07dBm)	271.644mW (24.34dBm)	215.278mW (23.33dBm)	105.439mW (20.23dBm)

Band / Bandwidth	TX Frequency Range (MHz)	Max. EIRP Power			
		QPSK	16QAM	64QAM	256QAM
LTE Band 7 (Channel Bandwidth 5 MHz)	2502.5-2567.5	343.558mW (25.36dBm)	298.538mW (24.75dBm)	223.872mW (23.50dBm)	119.399mW (20.77dBm)
LTE Band 7 (Channel Bandwidth 10 MHz)	2505.0-2565.0	347.536mW (25.41dBm)	293.765mW (24.68dBm)	224.905mW (23.52dBm)	120.226mW (20.80dBm)
LTE Band 7 (Channel Bandwidth 15 MHz)	2507.5-2562.5	337.287mW (25.28dBm)	295.801mW (24.71dBm)	224.388mW (23.51dBm)	120.781mW (20.82dBm)
LTE Band 7 (Channel Bandwidth 20 MHz)	2510.0-2560.0	348.337mW (25.42dBm)	299.226mW (24.76dBm)	223.357mW (23.49dBm)	121.619mW (20.85dBm)
LTE Band 25 (Channel Bandwidth 1.4 MHz)	1850.7-1914.3	327.341mW (25.15dBm)	304.789mW (24.84dBm)	239.883mW (23.80dBm)	115.878mW (20.64dBm)
LTE Band 25 (Channel Bandwidth 3 MHz)	1851.5-1913.5	334.195mW (25.24dBm)	301.301mW (24.79dBm)	238.232mW (23.77dBm)	115.080mW (20.61dBm)
LTE Band 25 (Channel Bandwidth 5 MHz)	1852.5-1912.5	330.370mW (25.19dBm)	301.301mW (24.79dBm)	238.232mW (23.77dBm)	116.145mW (20.65dBm)
LTE Band 25 (Channel Bandwidth 10 MHz)	1855.0-1910.0	328.852mW (25.17dBm)	301.995mW (24.80dBm)	239.332mW (23.79dBm)	117.490mW (20.70dBm)
LTE Band 25 (Channel Bandwidth 15 MHz)	1857.5-1907.5	331.131mW (25.20dBm)	302.691mW (24.81dBm)	234.963mW (23.71dBm)	115.611mW (20.63dBm)
LTE Band 25 (Channel Bandwidth 20 MHz)	1860.0-1905.0	333.426mW (25.23dBm)	309.742mW (24.91dBm)	238.232mW (23.77dBm)	116.413mW (20.66dBm)
LTE Band 41 (Channel Bandwidth 5 MHz)	2498.5-2687.5	361.410mW (25.58dBm)	304.089mW (24.83dBm)	222.844mW (23.48dBm)	119.399mW (20.77dBm)
LTE Band 41 (Channel Bandwidth 10 MHz)	2501.0-2685.0	364.754mW (25.62dBm)	297.852mW (24.74dBm)	217.771mW (23.38dBm)	118.032mW (20.72dBm)
LTE Band 41 (Channel Bandwidth 15 MHz)	2503.5-2682.5	363.915mW (25.61dBm)	300.608mW (24.78dBm)	223.357mW (23.49dBm)	115.611mW (20.63dBm)
LTE Band 41 (Channel Bandwidth 20 MHz)	2506.0-2680.0	366.438mW (25.64dBm)	300.608mW (24.78dBm)	223.872mW (23.50dBm)	118.850mW (20.75dBm)
LTE Band 66 (Channel Bandwidth 1.4 MHz)	1710.7-1779.3	334.195mW (25.24dBm)	314.051mW (24.97dBm)	236.048mW (23.73dBm)	116.950mW (20.68dBm)
LTE Band 66 (Channel Bandwidth 3 MHz)	1711.5-1778.5	332.660mW (25.22dBm)	308.319mW (24.89dBm)	237.137mW (23.75dBm)	116.681mW (20.67dBm)
LTE Band 66 (Channel Bandwidth 5 MHz)	1712.5-1777.5	336.512mW (25.27dBm)	310.456mW (24.92dBm)	233.884mW (23.69dBm)	116.413mW (20.66dBm)
LTE Band 66 (Channel Bandwidth 10 MHz)	1715.0-1775.0	338.065mW (25.29dBm)	315.500mW (24.99dBm)	237.684mW (23.76dBm)	115.878mW (20.64dBm)
LTE Band 66 (Channel Bandwidth 15 MHz)	1717.5-1772.5	334.195mW (25.24dBm)	316.957mW (25.01dBm)	237.137mW (23.75dBm)	118.304mW (20.73dBm)
LTE Band 66 (Channel Bandwidth 20 MHz)	1720.0-1770.0	336.512mW (25.27dBm)	312.608mW (24.95dBm)	240.991mW (23.82dBm)	119.399mW (20.77dBm)

Band / Bandwidth	TX Frequency Range (MHz)	Max. ERP Power
GSM 850	824.2-848.8	2233.572mW (33.49dBm)
WCDMA Band 5	826.4-846.6	294.442mW (24.69dBm)

Band / Bandwidth	TX Frequency Range (MHz)	Max. ERP Power			
		QPSK	16QAM	64QAM	256QAM
LTE Band 5 (Channel Bandwidth 1.4 MHz)	824.7-848.3	239.883mW (23.80dBm)	219.280mW (23.41dBm)	167.880mW (22.25dBm)	80.353mW (19.05dBm)
LTE Band 5 (Channel Bandwidth 3 MHz)	825.5-847.5	242.103mW (23.84dBm)	218.776mW (23.40dBm)	169.044mW (22.28dBm)	78.886mW (18.97dBm)
LTE Band 5 (Channel Bandwidth 5 MHz)	826.5-846.5	238.232mW (23.77dBm)	219.280mW (23.41dBm)	167.880mW (22.25dBm)	78.886mW (18.97dBm)
LTE Band 5 (Channel Bandwidth 10 MHz)	829.0-844.0	242.103mW (23.84dBm)	221.309mW (23.45dBm)	169.044mW (22.28dBm)	78.886mW (18.97dBm)
LTE Band 12 (Channel Bandwidth 1.4 MHz)	699.7-715.3	196.789mW (22.94dBm)	171.002mW (22.33dBm)	134.276mW (21.28dBm)	69.823mW (18.44dBm)
LTE Band 12 (Channel Bandwidth 3 MHz)	700.5-714.5	197.242mW (22.95dBm)	171.396mW (22.34dBm)	136.773mW (21.36dBm)	70.469mW (18.48dBm)
LTE Band 12 (Channel Bandwidth 5 MHz)	701.5-713.5	196.336mW (22.93dBm)	173.380mW (22.39dBm)	135.519mW (21.32dBm)	71.121mW (18.52dBm)
LTE Band 12 (Channel Bandwidth 10 MHz)	704.0-711.0	197.697mW (22.96dBm)	172.982mW (22.38dBm)	137.721mW (21.39dBm)	70.795mW (18.50dBm)
LTE Band 13 (Channel Bandwidth 5 MHz)	779.5-784.5	205.116mW (23.12dBm)	175.792mW (22.45dBm)	137.088mW (21.37dBm)	68.077mW (18.33dBm)
LTE Band 13 (Channel Bandwidth 10 MHz)	782.0	206.538mW (23.15dBm)	177.419mW (22.49dBm)	137.721mW (21.39dBm)	68.865mW (18.38dBm)
LTE Band 14 (Channel Bandwidth 5 MHz)	790.5-795.5	199.526mW (23.00dBm)	179.473mW (22.54dBm)	135.519mW (21.32dBm)	69.502mW (18.42dBm)
LTE Band 14 (Channel Bandwidth 10 MHz)	793	202.768mW (23.07dBm)	169.044mW (22.28dBm)	138.676mW (21.42dBm)	67.298mW (18.28dBm)
LTE Band 26 (Channel Bandwidth 1.4 MHz)	814.7-823.3	237.137mW (23.75dBm)	218.273mW (23.39dBm)	169.824mW (22.30dBm)	80.538mW (19.06dBm)
LTE Band 26 (Channel Bandwidth 3 MHz)	815.5-822.5	242.661mW (23.85dBm)	215.774mW (23.34dBm)	167.880mW (22.25dBm)	80.538mW (19.06dBm)
LTE Band 26 (Channel Bandwidth 5 MHz)	816.5-821.5	244.343mW (23.88dBm)	218.776mW (23.40dBm)	169.824mW (22.30dBm)	81.658mW (19.12dBm)
LTE Band 26 (Channel Bandwidth 10 MHz)	819.0	242.103mW (23.84dBm)	210.863mW (23.24dBm)	160.325mW (22.05dBm)	82.035mW (19.14dBm)

Band / Bandwidth	TX Frequency Range (MHz)	Max. ERP Power			
		QPSK	16QAM	64QAM	256QAM
LTE Band 26 (Channel Bandwidth 1.4 MHz)	824.7-848.3	236.592mW (23.74dBm)	211.349mW (23.25dBm)	161.808mW (22.09dBm)	80.910mW (19.08dBm)
LTE Band 26 (Channel Bandwidth 3 MHz)	825.5-847.5	237.684mW (23.76dBm)	204.644mW (23.11dBm)	165.959mW (22.20dBm)	81.283mW (19.10dBm)
LTE Band 26 (Channel Bandwidth 5 MHz)	826.5-846.5	242.661mW (23.85dBm)	208.930mW (23.20dBm)	165.959mW (22.20dBm)	81.096mW (19.09dBm)
LTE Band 26 (Channel Bandwidth 10 MHz)	829.0-844.0	244.343mW (23.88dBm)	209.894mW (23.22dBm)	162.555mW (22.11dBm)	82.035mW (19.14dBm)
LTE Band 26 (Channel Bandwidth 15 MHz)	831.5-841.5	240.991mW (23.82dBm)	206.538mW (23.15dBm)	155.955mW (21.93dBm)	116.681mW (20.67dBm)
LTE Band 17 (Channel Bandwidth 5 MHz)	706.5-713.5	188.799mW (22.76dBm)	166.725mW (22.22dBm)	125.026mW (20.97dBm)	69.343mW (18.41dBm)
LTE Band 17 (Channel Bandwidth 10 MHz)	709.0-711.0	193.642mW (22.87dBm)	169.824mW (22.30dBm)	126.765mW (21.03dBm)	69.502mW (18.42dBm)
LTE Band 71 (Channel Bandwidth 5 MHz)	665.5-695.5	198.153mW (22.97dBm)	173.780mW (22.40dBm)	131.522mW (21.19dBm)	72.277mW (18.59dBm)
LTE Band 71 (Channel Bandwidth 10 MHz)	668.0-693.0	194.089mW (22.88dBm)	172.982mW (22.38dBm)	129.718mW (21.13dBm)	71.945mW (18.57dBm)
LTE Band 71 (Channel Bandwidth 15 MHz)	670.5-690.5	199.067mW (22.99dBm)	169.434mW (22.29dBm)	132.130mW (21.21dBm)	72.111mW (18.58dBm)
LTE Band 71 (Channel Bandwidth 20 MHz)	673.0-688.0	200.909mW (23.03dBm)	172.982mW (22.38dBm)	133.352mW (21.25dBm)	72.277mW (18.59dBm)

Band / Bandwidth	TX Frequency Range (MHz)	Emission Designator	
		GSM, GPRS	EDGE
GSM 850	824.2-848.8	247KGXW	249KG7W
GSM 1900	1850.2-1909.8	251KGXW	248KG7W

Band / Bandwidth	TX Frequency Range (MHz)	Emission Designator
WCDMA Band 2	1852.4-1907.6	4M16F9W
WCDMA Band 4	1712.4-1752.6	4M16F9W
WCDMA Band 5	826.4-846.6	4M17F9W

Band / Bandwidth	TX Frequency Range (MHz)	Emission Designator			
		QPSK	16QAM	64QAM	256QAM
LTE Band 2 (Channel Bandwidth 1.4 MHz)	1850.7-1909.3	1M09G7D	1M09D7W	1M09D7W	1M08D7W
LTE Band 2 (Channel Bandwidth 3 MHz)	1851.5-1908.5	2M70G7D	2M70D7W	2M69D7W	2M70D7W
LTE Band 2 (Channel Bandwidth 5 MHz)	1852.5-1907.5	4M50G7D	4M49D7W	4M50D7W	4M49D7W
LTE Band 2 (Channel Bandwidth 10 MHz)	1855.0-1905.0	8M97G7D	8M97D7W	8M98D7W	8M98D7W
LTE Band 2 (Channel Bandwidth 15 MHz)	1857.5-1902.5	13M5G7D	13M5D7W	13M5D7W	13M5D7W
LTE Band 2 (Channel Bandwidth 20 MHz)	1860.0-1900.0	17M9G7D	18M0D7W	18M0D7W	18M0D7W
LTE Band 4 (Channel Bandwidth 1.4 MHz)	1710.7-1754.3	1M09G7D	1M09D7W	1M09D7W	1M08D7W
LTE Band 4 (Channel Bandwidth 3 MHz)	1711.5-1753.5	2M70G7D	2M70D7W	2M69D7W	2M70D7W
LTE Band 4 (Channel Bandwidth 5 MHz)	1712.5-1752.5	4M49G7D	4M49D7W	4M49D7W	4M49D7W
LTE Band 4 (Channel Bandwidth 10 MHz)	1715.0-1750.0	8M98G7D	8M97D7W	8M98D7W	8M97D7W
LTE Band 4 (Channel Bandwidth 15 MHz)	1717.5-1747.5	13M5G7D	13M5D7W	13M4D7W	13M5D7W
LTE Band 4 (Channel Bandwidth 20 MHz)	1720.0-1745.0	17M9G7D	18M0D7W	17M9D7W	17M9D7W
LTE Band 5 (Channel Bandwidth 1.4 MHz)	824.7-848.3	1M09G7D	1M09D7W	1M09D7W	1M08D7W
LTE Band 5 (Channel Bandwidth 3 MHz)	825.5-847.5	2M70G7D	2M69D7W	2M69D7W	2M69D7W
LTE Band 5 (Channel Bandwidth 5 MHz)	826.5-846.5	4M49G7D	4M49D7W	4M49D7W	4M49D7W
LTE Band 5 (Channel Bandwidth 10 MHz)	829.0-844.0	9M00G7D	9M00D7W	8M99D7W	8M99D7W
LTE Band 7 (Channel Bandwidth 5 MHz)	2502.5-2567.5	4M49G7D	4M49D7W	4M50D7W	4M49D7W
LTE Band 7 (Channel Bandwidth 10 MHz)	2505.0-2565.0	8M98G7D	8M98D7W	8M98D7W	8M97D7W
LTE Band 7 (Channel Bandwidth 15 MHz)	2507.5-2562.5	13M5G7D	13M5D7W	13M4D7W	13M5D7W
LTE Band 7 (Channel Bandwidth 20 MHz)	2510.0-2560.0	18M0G7D	18M0D7W	18M0D7W	17M9D7W
LTE Band 12 (Channel Bandwidth 1.4 MHz)	699.7-715.3	1M09G7D	1M09D7W	1M09D7W	1M08D7W
LTE Band 12 (Channel Bandwidth 3 MHz)	700.5-714.5	2M70G7D	2M70D7W	2M69D7W	2M70D7W
LTE Band 12 (Channel Bandwidth 5 MHz)	701.5-713.5	4M50G7D	4M49D7W	4M50D7W	4M48D7W
LTE Band 12 (Channel Bandwidth 10 MHz)	704.0-711.0	8M97G7D	8M98D7W	8M98D7W	8M98D7W
LTE Band 13 (Channel Bandwidth 5 MHz)	779.5-784.5	4M50G7D	4M49D7W	4M50D7W	4M49D7W
LTE Band 13 (Channel Bandwidth 10 MHz)	782.0	8M96G7D	8M96D7W	8M96D7W	8M95D7W
LTE Band 14 (Channel Bandwidth 5 MHz)	790.5-795.5	4M49G7D	4M49D7W	4M50D7W	4M49D7W
LTE Band 14 (Channel Bandwidth 10 MHz)	793	8M96G7D	8M96D7W	8M96D7W	8M95D7W
LTE Band 17 (Channel Bandwidth 5 MHz)	706.5-713.5	4M49G7D	4M49D7W	4M49D7W	4M49D7W
LTE Band 17 (Channel Bandwidth 10 MHz)	709.0-711.0	8M98G7D	8M98D7W	8M98D7W	8M98D7W

Band / Bandwidth	TX Frequency Range (MHz)	Emission Designator			
		QPSK	16QAM	64QAM	256QAM
LTE Band 25 (Channel Bandwidth 1.4 MHz)	1850.7-1914.3	1M09G7D	1M09D7W	1M09D7W	1M09D7W
LTE Band 25 (Channel Bandwidth 3 MHz)	1851.5-1913.5	2M69G7D	2M70D7W	2M69D7W	2M70D7W
LTE Band 25 (Channel Bandwidth 5 MHz)	1852.5-1912.5	4M49G7D	4M49D7W	4M49D7W	4M49D7W
LTE Band 25 (Channel Bandwidth 10 MHz)	1855.0-1910.0	8M98G7D	8M97D7W	8M98D7W	8M97D7W
LTE Band 25 (Channel Bandwidth 15 MHz)	1857.5-1907.5	13M5G7D	13M5D7W	13M5D7W	13M5D7W
LTE Band 25 (Channel Bandwidth 20 MHz)	1860.0-1905.0	17M9G7D	17M9D7W	17M9D7W	18M0D7W
LTE Band 26 (Channel Bandwidth 1.4 MHz)	814.7-823.3	1M09G7D	1M09D7W	1M09D7W	1M09D7W
LTE Band 26 (Channel Bandwidth 3 MHz)	815.5-822.5	2M70G7D	2M70D7W	2M69D7W	2M70D7W
LTE Band 26 (Channel Bandwidth 5 MHz)	816.5-821.5	4M50G7D	4M49D7W	4M50D7W	4M49D7W
LTE Band 26 (Channel Bandwidth 10 MHz)	819.0	8M96G7D	8M96D7W	8M96D7W	8M96D7W
LTE Band 26 (Channel Bandwidth 1.4 MHz)	824.7-848.3	1M09G7D	1M09D7W	1M09D7W	1M09D7W
LTE Band 26 (Channel Bandwidth 3 MHz)	825.5-847.5	2M70G7D	2M70D7W	2M69D7W	2M69D7W
LTE Band 26 (Channel Bandwidth 5 MHz)	826.5-846.5	4M50G7D	4M49D7W	4M49D7W	4M49D7W
LTE Band 26 (Channel Bandwidth 10 MHz)	829.0-844.0	9M00G7D	8M99D7W	9M00D7W	8M99D7W
LTE Band 26 (Channel Bandwidth 15 MHz)	831.5-841.5	13M5G7D	13M5D7W	13M5D7W	13M5D7W
LTE Band 41 (Channel Bandwidth 5 MHz)	2498.5-2687.5	4M50G7D	4M49D7W	4M53D7W	4M49D7W
LTE Band 41 (Channel Bandwidth 10 MHz)	2501.0-2685.0	8M98G7D	8M98D7W	8M98D7W	8M96D7W
LTE Band 41 (Channel Bandwidth 15 MHz)	2503.5-2682.5	13M5G7D	13M5D7W	13M5D7W	13M4D7W
LTE Band 41 (Channel Bandwidth 20 MHz)	2506.0-2680.0	17M9G7D	17M9D7W	17M9D7W	17M9D7W
LTE Band 66 (Channel Bandwidth 1.4 MHz)	1710.7-1779.3	1M09G7D	1M09D7W	1M09D7W	1M09D7W
LTE Band 66 (Channel Bandwidth 3 MHz)	1711.5-1778.5	2M70G7D	2M70D7W	2M70D7W	2M70D7W
LTE Band 66 (Channel Bandwidth 5 MHz)	1712.5-1777.5	4M49G7D	4M49D7W	4M50D7W	4M49D7W
LTE Band 66 (Channel Bandwidth 10 MHz)	1715.0-1775.0	8M97G7D	8M97D7W	8M98D7W	8M97D7W
LTE Band 66 (Channel Bandwidth 15 MHz)	1717.5-1772.5	13M5G7D	13M5D7W	13M5D7W	13M5D7W
LTE Band 66 (Channel Bandwidth 20 MHz)	1720.0-1770.0	17M9G7D	18M0D7W	17M9D7W	17M9D7W
LTE Band 71 (Channel Bandwidth 5 MHz)	665.5-695.5	4M49G7D	4M49D7W	4M50D7W	4M49D7W
LTE Band 71 (Channel Bandwidth 10 MHz)	668.0-693.0	8M98G7D	8M98D7W	8M98D7W	8M97D7W
LTE Band 71 (Channel Bandwidth 15 MHz)	670.5-690.5	13M5G7D	13M5D7W	13M4D7W	13M5D7W
LTE Band 71 (Channel Bandwidth 20 MHz)	673.0-688.0	17M9G7D	18M0D7W	17M9D7W	17M9D7W

2. 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.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Type	Dipole
Antenna Connector	SMA
Band	Gain (dBi)
GSM 850	2.63
GSM 1900	2.03
WCDMA Band 2	2.03
WCDMA Band 4	2.03
WCDMA Band 5	2.63
LTE Band 2	2.03
LTE Band 4	2.03
LTE Band 5	2.63
LTE Band 7	2.26
LTE Band 12	1.63
LTE Band 13	1.63
LTE Band 14	1.63
LTE Band 17	1.63
LTE Band 25	2.03
LTE Band 26	2.63
LTE Band 30	2.26
LTE Band 41	2.26
LTE Band 66	2.03
LTE Band 71	1.63

*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.
*The EUT support 1TX/4RX.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. The EUT's MCU, PMIC, Crystal, EMMC component will with shielding case or without shielding case. The EUT's RF component will always cover in the shielding case.
Worst Case:	1. X-axis/ Y-axis/ Z-axis Worst Condition: Z-axis 2. With shielding case or without shielding case (only MCU, PMIC, Crystal, EMMC component): without shielding case (only MCU, PMIC, Crystal, EMMC component) was chosen for final test; with shielding case was perform the radiated spurious emissions test only.

For GSM 850

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	128 (824.20 MHz) 189 (836.40 MHz) 251 (848.80 MHz)	-	-	GSM GPRS EDGE
Modulation Characteristics	189 (836.40 MHz)	-	-	GSM GPRS EDGE
Occupied Bandwidth	128 (824.20 MHz) 189 (836.40 MHz) 251 (848.80 MHz)	-	-	GSM GPRS EDGE
Band Edge	128(824.20 MHz) 251(848.80 MHz)	-	-	GSM GPRS EDGE
Peak to Average Ratio	128 (824.20 MHz) 189 (836.40 MHz) 251 (848.80 MHz)	-	-	GSM GPRS EDGE
Conducted Emission	128 (824.20 MHz) 189 (836.40 MHz) 251 (848.80 MHz)	-	-	GSM GPRS EDGE
Radiated Spurious Emissions below 1GHz	189 (836.40 MHz)			GSM EDGE
Radiated Spurious Emissions above 1GHz	128 (824.20 MHz) 189 (836.40 MHz) 251 (848.80 MHz)	-	-	GSM EDGE
Frequency Stability	128 (824.20 MHz) 251 (848.80 MHz)	-	-	GSM EDGE

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	189 (836.40 MHz)			GSM EDGE
Radiated Spurious Emissions above 1GHz	128 (824.20 MHz) 189 (836.40 MHz) 251 (848.80 MHz)	-	-	GSM EDGE

For GSM 1900

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	512 (1850.20 MHz) 661 (1880.00 MHz) 810 (1909.80 MHz)	-	-	GSM GPRS EDGE
Modulation Characteristics	661 (1880.00 MHz)	-	-	GSM GPRS EDGE
Occupied Bandwidth	512 (1850.20 MHz) 661 (1880.00 MHz) 810 (1909.80 MHz)	-	-	GSM GPRS EDGE
Band Edge	512(1850.20 MHz) 810(1909.80 MHz)	-	-	GSM GPRS EDGE
Peak to Average Ratio	512 (1850.20 MHz) 661 (1880.00 MHz) 810 (1909.80 MHz)	-	-	GSM GPRS EDGE
Conducted Emission	512 (1850.20 MHz) 661 (1880.00 MHz) 810 (1909.80 MHz)	-	-	GSM GPRS EDGE
Radiated Spurious Emissions below 1GHz	661 (1880.00 MHz)	-	-	GSM EDGE
Radiated Spurious Emissions above 1GHz	512 (1850.20 MHz) 661 (1880.00 MHz) 810 (1909.80 MHz)	-	-	GSM EDGE
Frequency Stability	512 (1850.20 MHz) 810 (1909.80 MHz)	-	-	GSM EDGE

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	661 (1880.00 MHz)	-	-	GSM EDGE
Radiated Spurious Emissions above 1GHz	512 (1850.20 MHz) 661 (1880.00 MHz) 810 (1909.80 MHz)	-	-	GSM EDGE

For WCDMA Band 2

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	9262 (1852.40 MHz) 9400 (1880.00 MHz) 9538 (1907.60 MHz)	-	-	WCDMA HSDPA HSUPA
Modulation Characteristics	9400 (1880.00 MHz)	-	-	WCDMA HSDPA HSUPA
Occupied Bandwidth	9262 (1852.40 MHz) 9400 (1880.00 MHz) 9538 (1907.60 MHz)	-	-	WCDMA HSDPA HSUPA
Peak to Average Ratio	9262 (1852.40 MHz) 9400 (1880.00 MHz) 9538 (1907.60 MHz)	-	-	WCDMA HSDPA HSUPA
Conducted Emission	9262 (1852.40 MHz) 9400 (1880.00 MHz) 9538 (1907.60 MHz)	-	-	WCDMA HSDPA HSUPA
Radiated Spurious Emissions below 1GHz	9400 (1880.00 MHz)	-	-	WCDMA
Radiated Spurious Emissions above 1GHz	9262 (1852.40 MHz) 9400 (1880.00 MHz) 9538 (1907.60 MHz)	-	-	WCDMA
Frequency Stability	9262 (1852.40 MHz) 9538 (1907.60 MHz)	-	-	WCDMA

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	9400 (1880.00 MHz)	-	-	WCDMA
Radiated Spurious Emissions above 1GHz	9262 (1852.40 MHz) 9400 (1880.00 MHz) 9538 (1907.60 MHz)	-	-	WCDMA

For WCDMA Band 4

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	1312 (1712.40 MHz) 1413 (1732.60 MHz) 1513 (1752.60 MHz)	-	-	WCDMA HSDPA HSUPA
Modulation Characteristics	1413 (1732.60 MHz)	-	-	WCDMA HSDPA HSUPA
Occupied Bandwidth	1312 (1712.40 MHz) 1413 (1732.60 MHz) 1513 (1752.60 MHz)	-	-	WCDMA HSDPA HSUPA
Peak to Average Ratio	1312 (1712.40 MHz) 1413 (1732.60 MHz) 1513 (1752.60 MHz)	-	-	WCDMA HSDPA HSUPA
Conducted Emission	1312 (1712.40 MHz) 1413 (1732.60 MHz) 1513 (1752.60 MHz)	-	-	WCDMA HSDPA HSUPA
Radiated Spurious Emissions below 1GHz	1413 (1732.60 MHz)	-	-	WCDMA
Radiated Spurious Emissions above 1GHz	1312 (1712.40 MHz) 1413 (1732.60 MHz) 1513 (1752.60 MHz)	-	-	WCDMA
Frequency Stability	1312 (1712.40 MHz) 1513 (1752.60 MHz)	-	-	WCDMA

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	1413 (1732.60 MHz)	-	-	WCDMA
Radiated Spurious Emissions above 1GHz	1312 (1712.40 MHz) 1413 (1732.60 MHz) 1513 (1752.60 MHz)	-	-	WCDMA

For WCDMA Band 5

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	4132 (826.40 MHz) 4182 (836.40 MHz) 4233 (846.60 MHz)	-	-	WCDMA HSDPA HSUPA
Modulation Characteristics	4182 (836.40 MHz)	-	-	WCDMA HSDPA HSUPA
Occupied Bandwidth	4132 (826.40 MHz) 4182 (836.40 MHz) 4233 (846.60 MHz)	-	-	WCDMA HSDPA HSUPA
Peak to Average Ratio	4132 (826.40 MHz) 4182 (836.40 MHz) 4233 (846.60 MHz)	-	-	WCDMA HSDPA HSUPA
Conducted Emission	4132 (826.40 MHz) 4182 (836.40 MHz) 4233 (846.60 MHz)	-	-	WCDMA HSDPA HSUPA
Radiated Spurious Emissions below 1GHz	4182 (836.40 MHz)	-	-	WCDMA
Radiated Spurious Emissions above 1GHz	4132 (826.40 MHz) 4182 (836.40 MHz) 4233 (846.60 MHz)	-	-	WCDMA
Frequency Stability	4132 (826.40 MHz) 4233 (846.60 MHz)	-	-	WCDMA

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	4182 (836.40 MHz)	-	-	WCDMA
Radiated Spurious Emissions above 1GHz	4132 (826.40 MHz) 4182 (836.40 MHz) 4233 (846.60 MHz)	-	-	WCDMA

For LTE Band 2

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	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
Occupied 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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
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
Conducted Emission	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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	18900 (1880.00 MHz)	20 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
Frequency Stability	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

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	18900 (1880.00 MHz)	20 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

For LTE Band 4

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	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
Occupied 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
	20000 (1715.00 MHz) 20175 (1732.50 MHz) 20350 (1750.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
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
Conducted Emission	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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	20175 (1732.50 MHz)	20 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	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

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	20175 (1732.50 MHz)	20 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

For LTE Band 5

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	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
Occupied 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
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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Emission	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
Radiated Spurious Emissions below 1GHz	20525 (836.50 MHz)	10 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	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

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	20525 (836.50 MHz)	10 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

For LTE Band 7

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20800 (2505.00 MHz) 21100 (2535.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20825 (2507.50 MHz) 21100 (2535.00 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	21100 (2535.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Occupied Bandwidth	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20800 (2505.00 MHz) 21100 (2535.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20825 (2507.50 MHz) 21100 (2535.00 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20800 (2505.00 MHz) 21100 (2535.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20825 (2507.50 MHz) 21100 (2535.00 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Emission	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK	1 RB Full RB
	20800 (2505.00 MHz) 21100 (2535.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK	1 RB Full RB
	20825 (2507.50 MHz) 21100 (2535.00 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK	1 RB Full RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	21100 (2535.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK	1 RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability	20775 (2502.50 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK	Full RB
	20800 (2505.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK	Full RB
	20825 (2507.50 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK	Full RB
	20850 (2510.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK	Full RB

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	21100 (2535.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK	1 RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 12

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	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
Occupied 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
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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Emission	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
	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	23095 (707.50 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	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

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	23095 (707.50 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

For LTE Band 13

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	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
Occupied 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
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
Conducted Emission	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)	10 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	23205 (779.50 MHz) 23255 (784.50 MHz)	5 MHz	QPSK	Full RB
	23230 (782.00 MHz)	10 MHz	QPSK	Full RB

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	23230 (782.00 MHz)	10 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

For LTE Band 14

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	23305 (790.50 MHz) 23330 (793.00 MHz) 23355 (795.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	23330 (793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	23330 (793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Occupied Bandwidth	23305 (790.50 MHz) 23330 (793.00 MHz) 23355 (795.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	23330 (793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	23305 (790.50 MHz) 23330 (793.00 MHz) 23355 (795.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	23330 (793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Conducted Emission	23305 (790.50 MHz) 23330 (793.00 MHz) 23355 (795.50 MHz)	5 MHz	QPSK	1 RB Full RB
	23330 (793.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	23330 (793.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23305 (790.50 MHz) 23330 (793.00 MHz) 23355 (795.50 MHz)	5 MHz	QPSK	1 RB
	23330 (793.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability	23305 (790.50 MHz) 23355 (795.50 MHz)	5 MHz	QPSK	Full RB
	23330 (793.00 MHz)	10 MHz	QPSK	Full RB

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	23330 (793.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23305 (790.50 MHz) 23330 (793.00 MHz) 23355 (795.50 MHz)	5 MHz	QPSK	1 RB
	23330 (793.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 17

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	23790 (710.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Occupied Bandwidth	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Conducted Emission	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK	1 RB Full RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	23790 (710.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK	1 RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability	23755 (706.50 MHz) 23825 (713.50 MHz)	5 MHz	QPSK	Full RB
	23780 (709.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK	Full RB

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	23790 (710.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK	1 RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 25

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	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
Occupied 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
	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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
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
Conducted Emission	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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	26365 (1882.50 MHz)	20 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	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

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	26365 (1882.50 MHz)	20 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

For LTE Band 26 (814-824 MHz)

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	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)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Occupied 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 Emission	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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	26740 (819.00 MHz)	10 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
Frequency Stability	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

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	26740 (819.00 MHz)	10 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

For LTE Band 26 (824-849 MHz)

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	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
Occupied 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
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
	26140 (1860.00 MHz) 26365 (1882.50 MHz) 26590 (1905.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Conducted Emission	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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	26915 (836.50 MHz)	15 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	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

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	26915 (836.50 MHz)	15 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

For LTE Band 41

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	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
Occupied 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
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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Emission	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
	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	40620 (2593.00 MHz)	20 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	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

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	40620 (2593.00 MHz)	20 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

For LTE Band 66

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	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
Occupied 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
	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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
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
Conducted Emission	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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	132322 (1745.00 MHz)	20 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	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

With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	132322 (1745.00 MHz)	20 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

For LTE Band 71

Without shielding case (only MCU, PMIC, Crystal, EMMC component)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	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
Occupied 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
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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Emission	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
Radiated Spurious Emissions below 1GHz	133297 (680.50 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	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

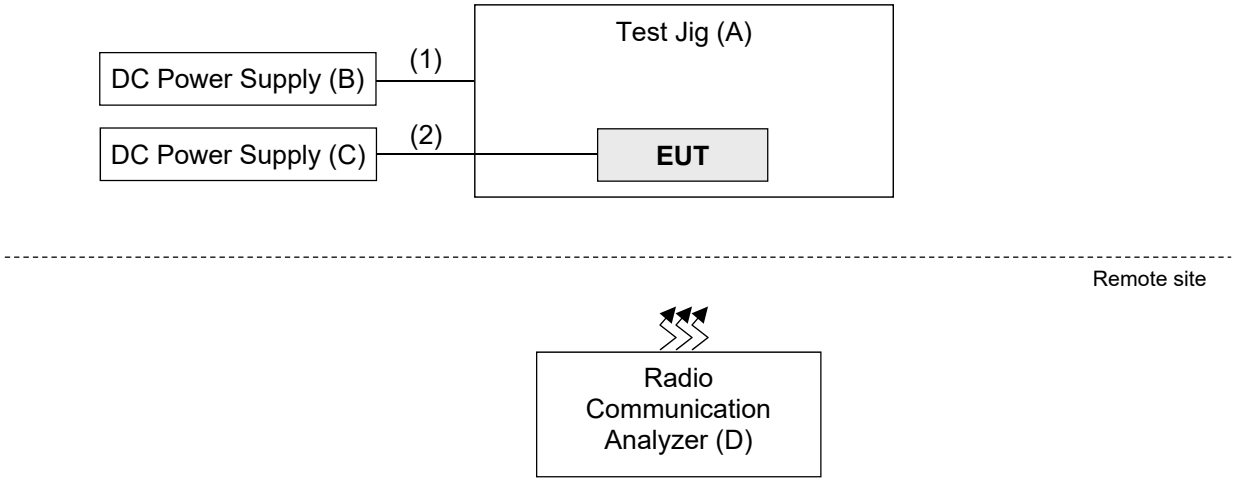
With shielding case

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	133297 (680.50 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

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



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Test Jig	N/A	N/A	N/A	N/A	Supplied by applicant
B	DC Power Supply	JIN YIH Technology	SP3051	N/A	N/A	Provided by Lab
C	DC Power Supply	JIN YIH Technology	SP3051	N/A	N/A	Provided by Lab
D	Radio Communication Analyzer	Anritsu	MT8821C	6201462755	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	2	N	0	Provided by Lab
2	DC Cable	1	3	N	0	Provided by Lab

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	MY57140488	2023/3/6	2024/3/5
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2023/3/3	2024/3/2
		6272278312	2023/7/6	2024/7/5
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/9/1 ~ 2023/9/15

4.2 Modulation Characteristics

Refer to section 4.1 to get information of the instruments.

4.3 Peak to Average Ratio

Refer to section 4.1 to get information of the instruments.

4.4 Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Conducted Spurious Emissions

Refer to section 4.1 to get information of the instruments.

4.6 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	2022/10/21	2023/10/20
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/1/3	2024/1/2
Loop Antenna Electro-Metrics	EM-6879	269	2022/9/19	2023/9/18
Loop Antenna TESEQ	HLA 6121	45745	2023/8/8	2024/8/7
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Preamplifier EMCI	EMC 330H	980112	2022/10/1	2023/9/30
	EMC001340	980201	2022/9/23	2023/9/22
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
RF Coaxial Cable Woken	8D-FB	Cable-Ch10-01	2022/10/1	2023/9/30
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2023/9/5 ~ 2023/9/8

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/1/3	2024/1/2
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2022/11/13	2023/11/12
	BBHA 9170	148	2022/11/13	2023/11/12
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Notch Filter Micro-Tronics	BRM17690	004	2023/1/11	2024/1/10
	BRM50716	060	2023/1/11	2024/1/10
Preamplifier EMCI	EMC 012645	980115	2022/10/1	2023/9/30
	EMC 184045	980116	2022/10/1	2023/9/30
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2023/7/8	2024/7/7
	EMC102-KM-KM-3000	150929	2023/7/8	2024/7/7
	EMC104-SM-SM-8000+3000	171005	2022/10/1	2023/9/30
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	EMC104-SM-SM-1000(140807)	2022/10/1	2023/9/30
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2023/8/29 ~ 2023/9/13

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	87-III	70360742	2023/7/6	2024/7/5
Signal and spectrum analyzer R&S	FSV3044	101105	2023/2/22	2024/2/21
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	2022/12/27	2023/12/26
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2023/3/3	2024/3/2

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/9/1 ~ 2023/9/15

5 Limits of Test Items

5.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

For GSM 1900, WCDMA Band 2, LTE Band 2, LTE Band 25:

Mobile and portable stations are limited to 2 watts EIRP.

For WCDMA Band 4, 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 GSM 850, WCDMA Band 5, LTE Band 5, LTE Band 26 (824-849 MHz):

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

For LTE Band 7, 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 12, LTE Band 17, 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 14:

Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

For LTE Band 26 (814-824 MHz):

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

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 GSM 850, GSM 1900, WCDMA Band 2, WCDMA Band 5, LTE Band 2, LTE Band 5, LTE Band 25, LTE Band 26 (824-849 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 WCDMA Band 4, LTE Band 4:

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 7, 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 that 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 12, LTE Band 17, 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 14:

According to FCC 47 CFR part 90.543 (e), for operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(2) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

According to FCC 47 CFR part 90.543 (f), for operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For LTE Band 26 (814-824 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 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.

5.6 Radiated Spurious Emissions below 1GHz

For GSM 850, GSM 1900, WCDMA Band 2, WCDMA Band 5, LTE Band 2, LTE Band 5, LTE Band 25, LTE Band 26 (824-849 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 WCDMA Band 4, LTE Band 4:

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 7, 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 12, LTE Band 17, 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 14:

According to FCC 47 CFR part 90.543 (e), for operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 Log (P) dB.

According to FCC 47 CFR part 90.543 (f), for operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For LTE Band 26 (814-824 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 grater than 37.5 kHz from channel edge is allowed.

For 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.

5.7 Radiated Spurious Emissions above 1GHz

For GSM 850, GSM 1900, WCDMA Band 2, WCDMA Band 5, LTE Band 2, LTE Band 5, LTE Band 25, LTE Band 26 (824-849 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 WCDMA Band 4, LTE Band 4:

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 7, 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 12, LTE Band 17, 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 14:

According to FCC 47 CFR part 90.543 (e), for operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 Log (P) dB.

According to FCC 47 CFR part 90.543 (f), for operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For LTE Band 26 (814-824 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 grater than 37.5 kHz from channel edge is allowed.

For 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.

5.8 Frequency Stability

For GSM 850, WCDMA Band 5, LTE Band 5:

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

For GSM 1900, WCDMA Band 2, WCDMA Band 4, LTE Band 2, LTE Band 4, LTE Band 7, LTE Band 12, LTE Band 13, LTE Band 17, LTE Band 25, LTE Band 26 (Part 22 and Part 90), LTE Band 41, 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).

For LTE Band 14

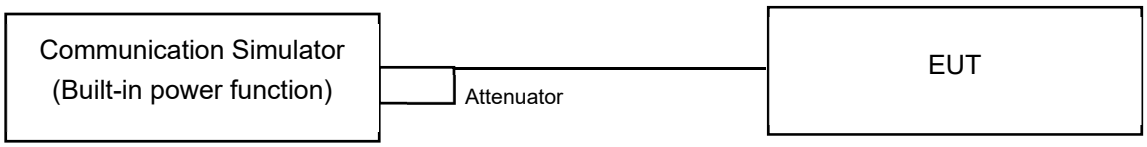
The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked.

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 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:

$EIRP = P_{Meas} + G_T$

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

where

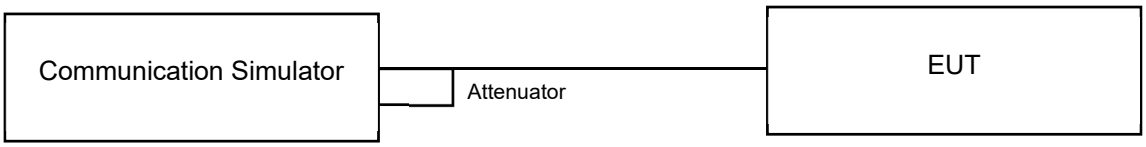
ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, e.g., dBm or dBW)

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

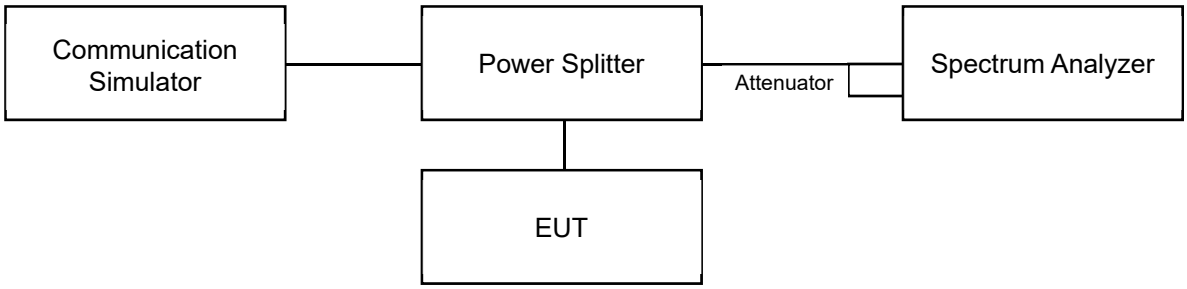


6.2.2 Test Procedure

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

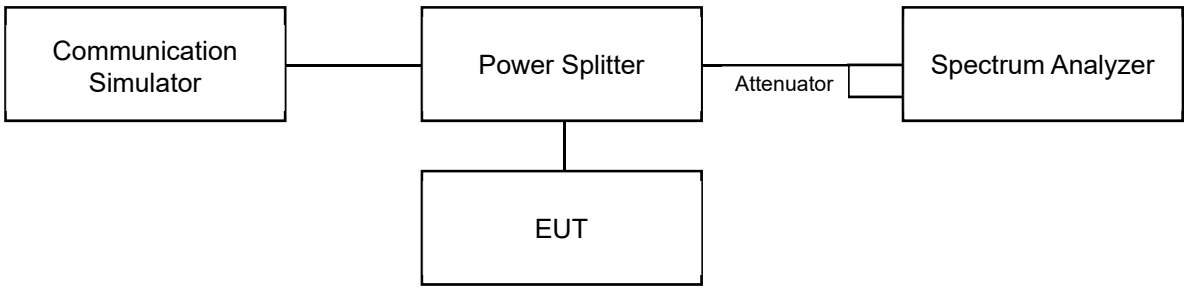


6.3.2 Test Procedure

a. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
b. Set the number of counts to a value that stabilizes the measured CCDF curve;
c. 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.

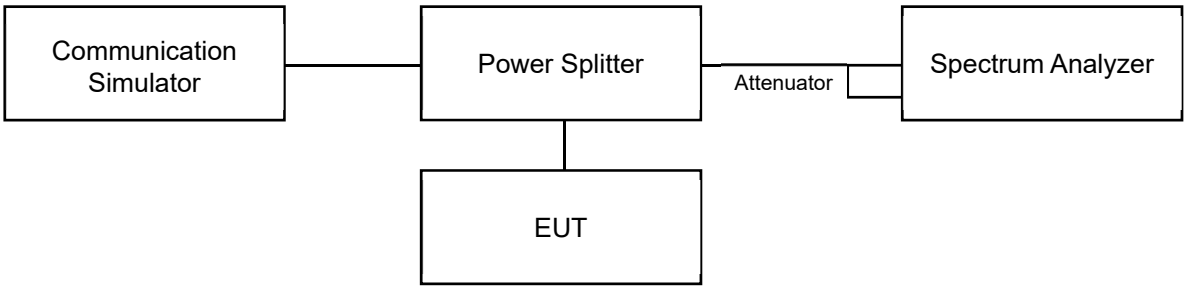
a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
b. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × 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 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).
g. 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.
h. 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.
i. 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 ≥ 3 × 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

a. Measurement refer to ANSI C63.26 section 5.7.
b. All measurements were done at 3 channels: low, middle and high operational frequency range.
c. Measuring frequency range is from 9 kHz up to the tenth harmonic of the hightest fundamental frequency or to 40 GHz, whichever is lower. 20 dB attenuation pad is connected with spectrum.
d. The fundamental frequency above 1 GHz, the spectrum set RBW = 1 MHz, VBW = 3 MHz, Detector = Average.
e. The fundamental frequency below 1 GHz, the spectrum set RBW ≥ 100 kHz, VBW ≥ 3 x RBW, Detector = Average.
f. Measuring frequency band edge, narrow RBW (no less than 1% of the OBW) is used for conducted emission measurement.

For Emission Mask:

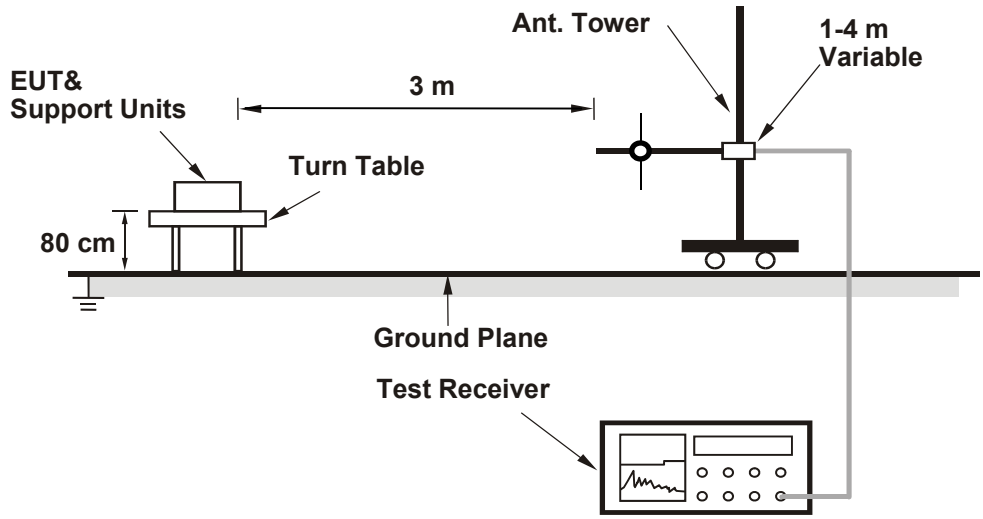
a. Measurement refer to ANSI C63.26 section 5.7.
b. All measurements were done at 2 channels: low and high operational frequency range.
c. Accoding to FCC 47 CFR part 90.691(a), the spectrum set RBW = 300 Hz for offset less than 37.5 kHz from channel edge and RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.
d. For 5 MHz / 10 MHz channel BW modes, compliance is demonstrated via integration with a smaller RBW as permitted by the rules.

   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=100kHz] + 10log(1000/100). To compensate for this integration before comparison to the limit, the limit line was reduced by 10 dB accordingly.
e. Record the maximum power value test plot.

6.6 Radiated Spurious Emissions below 1GHz

6.6.1 Test Setup

For radiated emission 30 MHz to 1 GHz



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

6.6.2 Test Procedure

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

a. 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.

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 (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.

f. ERP (dBm) = E (dBμV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

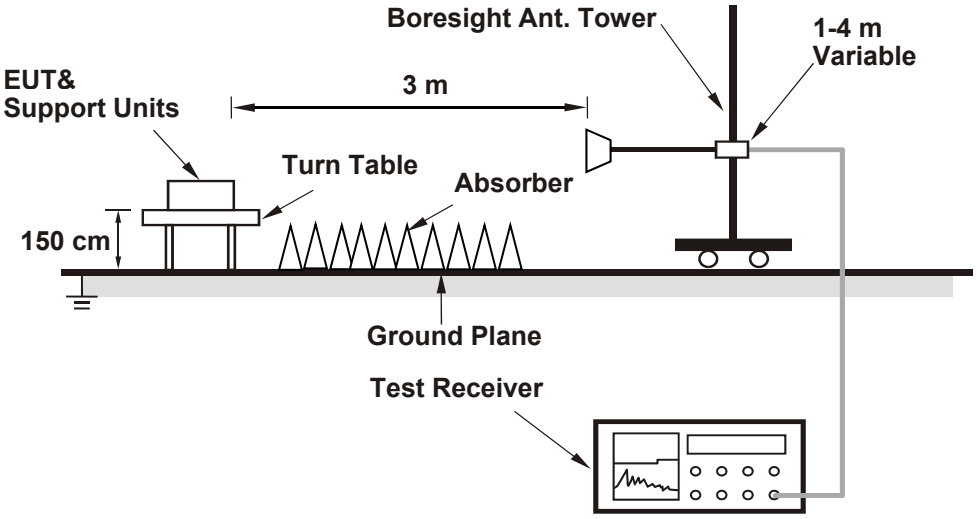
Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:
   The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

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 by emulator 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 (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.

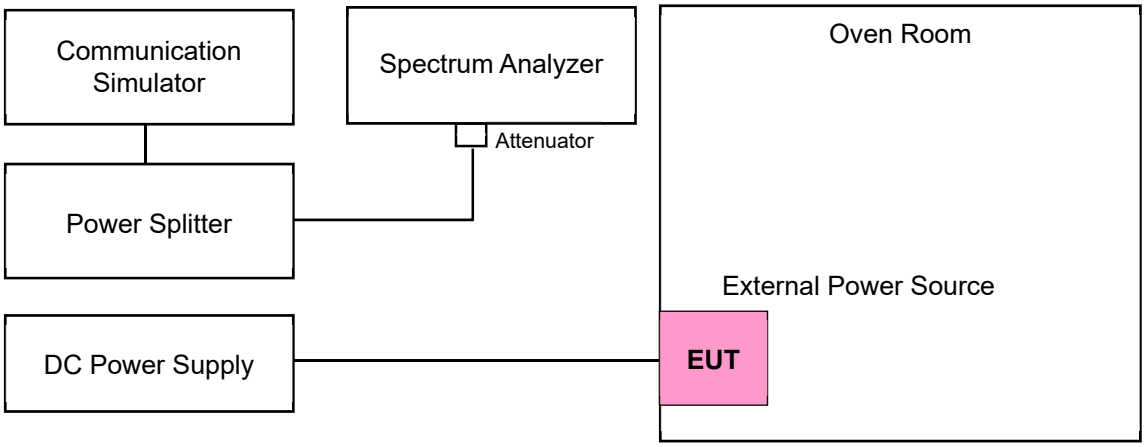
f. ERP (dBm) = E (dBμV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

Note:

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

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.

a. 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.

b. 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.

c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5℃ 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:	4.7 Vdc	Environmental Conditions:	22°C, 73% RH	Tested By:	Willy Cheng

7.1.1 GSM 850

Conducted Output Power (dBm)

Channel	128	189	251
Frequency	824.2	836.4	848.8
GSM	32.89	33.01	32.99
GPRS	32.87	32.95	32.95
EDGE (MCS9)	27.65	27.75	27.60

ERP Power (dBm)

Channel	128	189	251
Frequency	824.2	836.4	848.8
GSM	33.37	33.49	33.47
GPRS	33.35	33.43	33.43
EDGE (MCS9)	28.13	28.23	28.08

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.2 GSM 1900

Conducted Output Power (dBm)

Channel	512	661	810
Frequency	1850.2	1880	1909.8
GSM	29.95	29.98	29.94
GPRS	29.88	29.94	29.90
EDGE (MCS9)	26.40	26.40	26.35

EIRP Power (dBm)

Channel	512	661	810
Frequency	1850.2	1880	1909.8
GSM	31.98	32.01	31.97
GPRS	31.91	31.97	31.93
EDGE (MCS9)	28.43	28.43	28.38

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.3 WCDMA Band 2

Conducted Output Power (dBm)

TX Channel	9262	9400	9538
Rx Channel	9662	9800	9938
Frequency	1852.4	1880	1907.6
RMC 12.2K	24.10	24.15	24.09
HSDPA	23.11	23.22	23.19
HSUPA	23.12	23.08	23.10

EIRP Power (dBm)

TX Channel	9262	9400	9538
Rx Channel	9662	9800	9938
Frequency	1852.4	1880	1907.6
RMC 12.2K	26.13	26.18	26.12
HSDPA	25.14	25.25	25.22
HSUPA	25.15	25.11	25.13

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.4 WCDMA Band 4

Conducted Output Power (dBm)

TX Channel	1312	1413	1513
Rx Channel	1537	1638	1738
Frequency	1712.4	1732.6	1752.6
RMC 12.2K	24.21	24.29	24.20
HSDPA	23.15	23.30	23.25
HSUPA	23.09	23.21	23.15

EIRP Power (dBm)

TX Channel	1312	1413	1513
Rx Channel	1537	1638	1738
Frequency	1712.4	1732.6	1752.6
RMC 12.2K	26.24	26.32	26.23
HSDPA	25.18	25.33	25.28
HSUPA	25.12	25.24	25.18

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.5 WCDMA Band 5

Conducted Output Power (dBm)

TX Channel	4132	4182	4233
Rx Channel	4357	4407	4458
Frequency	826.4	836.4	846.6
RMC 12.2K	24.12	24.21	24.18
HSDPA	23.29	23.11	23.15
HSUPA	23.21	23.09	23.10

ERP Power (dBm)

TX Channel	4132	4182	4233
Rx Channel	4357	4407	4458
Frequency	826.4	836.4	846.6
RMC 12.2K	24.60	24.69	24.66
HSDPA	23.77	23.59	23.63
HSUPA	23.69	23.57	23.58

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.6 LTE Band 2

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	23.06	**23.07**	22.96
		1	50	23.00	23.04	22.98
		1	99	22.80	22.83	22.90
		50	0	22.27	22.18	22.05
		50	25	22.23	22.16	22.00
		50	50	22.23	21.99	21.96
		100	0	22.16	22.09	21.92
	16QAM	1	0	22.38	22.55	22.22
		1	50	22.40	22.52	22.47
		1	99	22.53	22.35	22.08
		50	0	21.24	21.18	21.20
		50	25	21.24	21.23	21.12
		50	50	21.15	21.14	21.15
		100	0	21.10	21.07	21.11
	64QAM	1	0	21.16	21.39	21.20
		1	50	21.35	21.31	21.28
		1	99	21.25	21.04	21.12
		50	0	20.22	20.11	20.16
		50	25	20.21	20.14	20.19
		50	50	20.17	20.17	20.08
		100	0	20.08	20.04	20.03
	256QAM	1	0	18.25	18.15	18.29
		1	50	18.31	18.34	18.25
		1	99	18.37	18.14	18.13
		50	0	18.09	18.10	18.11
		50	25	18.14	18.15	18.12
		50	50	18.15	18.11	18.00
		100	0	18.11	18.01	17.94

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	22.77	22.82	22.80
		1	37	23.00	22.99	22.87
		1	74	22.73	22.90	22.89
		36	0	22.21	22.17	22.01
		36	19	22.19	22.11	22.02
		36	39	22.17	22.06	21.98
		75	0	22.14	22.08	21.96
	16QAM	1	0	22.37	22.46	22.23
		1	37	22.46	22.44	22.48
		1	74	22.25	22.34	22.36
		36	0	21.19	21.18	21.16
		36	19	21.24	21.19	21.14
		36	39	21.21	21.25	21.19
		75	0	21.08	21.09	21.09
	64QAM	1	0	21.44	21.29	21.31
		1	37	21.27	21.36	21.35
		1	74	21.31	21.19	21.28
		36	0	20.13	20.21	20.18
		36	19	20.18	20.16	20.15
		36	39	20.16	20.16	20.11
		75	0	20.14	20.12	20.07
	256QAM	1	0	18.23	18.25	18.15
		1	37	18.38	18.58	18.28
		1	74	18.14	18.37	18.36
		36	0	18.05	18.12	18.18
		36	19	18.11	18.06	18.06
		36	39	18.06	18.11	18.09
		75	0	18.01	18.07	18.05

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	22.94	23.00	22.99
		1	24	23.01	22.97	22.92
		1	49	22.92	22.93	22.85
		25	0	22.22	22.18	22.02
		25	12	22.17	22.19	22.00
		25	25	22.21	22.01	21.95
		50	0	22.23	22.16	22.01
	16QAM	1	0	22.32	22.57	22.23
		1	24	22.41	22.50	22.11
		1	49	22.44	22.19	22.07
		25	0	21.23	21.14	21.23
		25	12	21.28	21.18	21.25
		25	25	21.21	21.20	21.08
		50	0	21.20	21.18	21.14
	64QAM	1	0	21.49	21.38	21.50
		1	24	21.40	21.27	21.31
		1	49	21.32	21.36	21.23
		25	0	20.19	20.15	20.15
		25	12	20.13	20.20	20.21
		25	25	20.17	20.12	20.11
		50	0	20.20	20.23	20.14
	256QAM	1	0	18.50	18.50	18.41
		1	24	18.26	18.53	18.30
		1	49	18.42	18.37	18.33
		25	0	18.12	18.07	18.21
		25	12	18.17	18.14	18.17
		25	25	18.09	18.10	18.07
		50	0	18.16	18.12	18.11

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	22.80	22.99	22.80
		1	12	22.84	22.99	22.95
		1	24	22.89	23.02	22.89
		12	0	22.18	22.21	22.02
		12	6	22.21	22.15	21.99
		12	13	22.19	22.15	21.90
		25	0	22.21	22.21	22.00
	16QAM	1	0	22.45	22.71	22.51
		1	12	22.33	22.55	22.39
		1	24	22.41	22.38	22.33
		12	0	21.32	21.27	21.31
		12	6	21.31	21.26	21.30
		12	13	21.28	21.23	21.23
		25	0	21.21	21.27	21.19
	64QAM	1	0	21.58	21.47	21.47
		1	12	21.52	21.42	21.35
		1	24	21.36	21.32	21.40
		12	0	20.29	20.30	20.28
		12	6	20.27	20.31	20.18
		12	13	20.10	20.23	20.13
		25	0	20.14	20.14	20.18
	256QAM	1	0	18.43	18.59	18.48
		1	12	18.22	18.58	18.33
		1	24	18.24	18.47	18.30
		12	0	18.20	18.17	18.15
		12	6	18.09	18.18	18.11
		12	13	18.10	18.11	18.05
		25	0	18.11	18.14	18.07

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	22.88	22.98	22.83
		1	7	22.94	22.96	23.02
		1	14	22.89	22.88	22.90
		8	0	21.95	22.15	21.93
		8	3	21.93	22.15	21.96
		8	7	22.15	22.08	21.95
		15	0	21.90	22.09	21.95
	16QAM	1	0	22.07	22.36	22.23
		1	7	22.33	22.35	22.42
		1	14	22.20	22.44	22.30
		8	0	21.28	21.31	21.29
		8	3	21.27	21.28	21.31
		8	7	21.23	21.24	21.35
		15	0	21.15	21.10	21.15
	64QAM	1	0	21.25	21.25	21.46
		1	7	21.34	21.27	21.39
		1	14	21.50	21.18	21.36
		8	0	20.32	20.14	20.21
		8	3	20.19	20.19	20.17
		8	7	20.24	20.26	20.23
		15	0	20.10	20.16	20.16
	256QAM	1	0	18.08	18.27	18.34
		1	7	18.43	18.23	18.49
		1	14	18.25	18.34	18.29
		8	0	18.19	18.13	18.09
		8	3	18.11	18.10	18.17
		8	7	18.08	18.16	18.18
		15	0	18.03	18.04	18.05

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	22.95	22.98	22.89
		1	2	23.04	23.01	23.00
		1	5	22.81	23.01	22.91
		3	0	22.95	22.97	22.94
		3	1	**23.05**	22.95	22.97
		3	3	22.93	23.01	22.91
		6	0	22.08	21.96	21.95
	16QAM	1	0	22.25	22.61	22.18
		1	2	22.32	22.61	22.39
		1	5	22.32	22.63	22.50
		3	0	22.17	22.29	22.20
		3	1	22.18	22.21	22.18
		3	3	22.05	22.33	22.16
		6	0	21.19	21.01	21.17
	64QAM	1	0	21.24	21.26	21.25
		1	2	21.37	21.50	21.44
		1	5	21.24	21.34	21.17
		3	0	21.27	21.23	21.32
		3	1	21.28	21.30	21.30
		3	3	21.31	21.41	21.29
		6	0	20.18	20.08	20.12
	256QAM	1	0	18.46	18.36	18.38
		1	2	18.40	18.42	18.29
		1	5	18.40	18.44	18.27
		3	0	18.51	18.22	18.36
		3	1	18.34	18.36	18.17
		3	3	18.52	18.27	18.28
		6	0	18.18	18.16	18.06

EIRP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	25.09	**25.10**	24.99
		1	50	25.03	25.07	25.01
		1	99	24.83	24.86	24.93
		50	0	24.30	24.21	24.08
		50	25	24.26	24.19	24.03
		50	50	24.26	24.02	23.99
		100	0	24.19	24.12	23.95
	16QAM	1	0	24.41	24.58	24.25
		1	50	24.43	24.55	24.50
		1	99	24.56	24.38	24.11
		50	0	23.27	23.21	23.23
		50	25	23.27	23.26	23.15
		50	50	23.18	23.17	23.18
		100	0	23.13	23.10	23.14
	64QAM	1	0	23.19	23.42	23.23
		1	50	23.38	23.34	23.31
		1	99	23.28	23.07	23.15
		50	0	22.25	22.14	22.19
		50	25	22.24	22.17	22.22
		50	50	22.20	22.20	22.11
		100	0	22.11	22.07	22.06
	256QAM	1	0	20.28	20.18	20.32
		1	50	20.34	20.37	20.28
		1	99	20.40	20.17	20.16
		50	0	20.12	20.13	20.14
		50	25	20.17	20.18	20.15
		50	50	20.18	20.14	20.03
		100	0	20.14	20.04	19.97

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	24.80	24.85	24.83
		1	37	25.03	25.02	24.90
		1	74	24.76	24.93	24.92
		36	0	24.24	24.20	24.04
		36	19	24.22	24.14	24.05
		36	39	24.20	24.09	24.01
		75	0	24.17	24.11	23.99
	16QAM	1	0	24.40	24.49	24.26
		1	37	24.49	24.47	24.51
		1	74	24.28	24.37	24.39
		36	0	23.22	23.21	23.19
		36	19	23.27	23.22	23.17
		36	39	23.24	23.28	23.22
		75	0	23.11	23.12	23.12
	64QAM	1	0	23.47	23.32	23.34
		1	37	23.30	23.39	23.38
		1	74	23.34	23.22	23.31
		36	0	22.16	22.24	22.21
		36	19	22.21	22.19	22.18
		36	39	22.19	22.19	22.14
		75	0	22.17	22.15	22.10
	256QAM	1	0	20.26	20.28	20.18
		1	37	20.41	20.61	20.31
		1	74	20.17	20.40	20.39
		36	0	20.08	20.15	20.21
		36	19	20.14	20.09	20.09
		36	39	20.09	20.14	20.12
		75	0	20.04	20.10	20.08

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	24.97	25.03	25.02
		1	24	25.04	25.00	24.95
		1	49	24.95	24.96	24.88
		25	0	24.25	24.21	24.05
		25	12	24.20	24.22	24.03
		25	25	24.24	24.04	23.98
		50	0	24.26	24.19	24.04
	16QAM	1	0	24.35	24.60	24.26
		1	24	24.44	24.53	24.14
		1	49	24.47	24.22	24.10
		25	0	23.26	23.17	23.26
		25	12	23.31	23.21	23.28
		25	25	23.24	23.23	23.11
		50	0	23.23	23.21	23.17
	64QAM	1	0	23.52	23.41	23.53
		1	24	23.43	23.30	23.34
		1	49	23.35	23.39	23.26
		25	0	22.22	22.18	22.18
		25	12	22.16	22.23	22.24
		25	25	22.20	22.15	22.14
		50	0	22.23	22.26	22.17
	256QAM	1	0	20.53	20.53	20.44
		1	24	20.29	20.56	20.33
		1	49	20.45	20.40	20.36
		25	0	20.15	20.10	20.24
		25	12	20.20	20.17	20.20
		25	25	20.12	20.13	20.10
		50	0	20.19	20.15	20.14

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	24.83	25.02	24.83
		1	12	24.87	25.02	24.98
		1	24	24.92	25.05	24.92
		12	0	24.21	24.24	24.05
		12	6	24.24	24.18	24.02
		12	13	24.22	24.18	23.93
		25	0	24.24	24.24	24.03
	16QAM	1	0	24.48	24.74	24.54
		1	12	24.36	24.58	24.42
		1	24	24.44	24.41	24.36
		12	0	23.35	23.30	23.34
		12	6	23.34	23.29	23.33
		12	13	23.31	23.26	23.26
		25	0	23.24	23.30	23.22
	64QAM	1	0	23.61	23.50	23.50
		1	12	23.55	23.45	23.38
		1	24	23.39	23.35	23.43
		12	0	22.32	22.33	22.31
		12	6	22.30	22.34	22.21
		12	13	22.13	22.26	22.16
		25	0	22.17	22.17	22.21
	256QAM	1	0	20.46	20.62	20.51
		1	12	20.25	20.61	20.36
		1	24	20.27	20.50	20.33
		12	0	20.23	20.20	20.18
		12	6	20.12	20.21	20.14
		12	13	20.13	20.14	20.08
		25	0	20.14	20.17	20.10

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	24.91	25.01	24.86
		1	7	24.97	24.99	25.05
		1	14	24.92	24.91	24.93
		8	0	23.98	24.18	23.96
		8	3	23.96	24.18	23.99
		8	7	24.18	24.11	23.98
		15	0	23.93	24.12	23.98
	16QAM	1	0	24.10	24.39	24.26
		1	7	24.36	24.38	24.45
		1	14	24.23	24.47	24.33
		8	0	23.31	23.34	23.32
		8	3	23.30	23.31	23.34
		8	7	23.26	23.27	23.38
		15	0	23.18	23.13	23.18
	64QAM	1	0	23.28	23.28	23.49
		1	7	23.37	23.30	23.42
		1	14	23.53	23.21	23.39
		8	0	22.35	22.17	22.24
		8	3	22.22	22.22	22.20
		8	7	22.27	22.29	22.26
		15	0	22.13	22.19	22.19
	256QAM	1	0	20.11	20.30	20.37
		1	7	20.46	20.26	20.52
		1	14	20.28	20.37	20.32
		8	0	20.22	20.16	20.12
		8	3	20.14	20.13	20.20
		8	7	20.11	20.19	20.21
		15	0	20.06	20.07	20.08

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	24.98	25.01	24.92
		1	2	25.07	25.04	25.03
		1	5	24.84	25.04	24.94
		3	0	24.98	25.00	24.97
		3	1	25.08	24.98	25.00
		3	3	24.96	25.04	24.94
		6	0	24.11	23.99	23.98
	16QAM	1	0	24.28	24.64	24.21
		1	2	24.35	24.64	24.42
		1	5	24.35	24.66	24.53
		3	0	24.20	24.32	24.23
		3	1	24.21	24.24	24.21
		3	3	24.08	24.36	24.19
		6	0	23.22	23.04	23.20
	64QAM	1	0	23.27	23.29	23.28
		1	2	23.40	23.53	23.47
		1	5	23.27	23.37	23.20
		3	0	23.30	23.26	23.35
		3	1	23.31	23.33	23.33
		3	3	23.34	23.44	23.32
		6	0	22.21	22.11	22.15
	256QAM	1	0	20.49	20.39	20.41
		1	2	20.43	20.45	20.32
		1	5	20.43	20.47	20.30
		3	0	20.54	20.25	20.39
		3	1	20.37	20.39	20.20
		3	3	20.55	20.30	20.31
		6	0	20.21	20.19	20.09

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.7 LTE Band 4

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	22.67	23.04	22.77
		1	50	22.58	22.82	22.83
		1	99	22.53	22.66	22.40
		50	0	21.95	22.01	21.73
		50	25	21.94	21.95	21.83
		50	50	21.88	22.03	21.85
		100	0	21.80	22.01	21.85
	16QAM	1	0	22.01	22.22	22.15
		1	50	22.21	22.31	22.30
		1	99	22.08	22.22	22.14
		50	0	20.82	21.04	20.81
		50	25	20.91	21.13	20.99
		50	50	21.10	21.10	20.95
		100	0	20.98	21.01	20.87
	64QAM	1	0	21.15	21.26	21.03
		1	50	21.04	21.28	21.28
		1	99	21.02	21.30	21.19
		50	0	19.73	20.05	20.03
		50	25	19.75	20.07	20.01
		50	50	19.98	19.97	19.84
		100	0	19.85	20.03	19.80
	256QAM	1	0	17.82	18.16	18.20
		1	50	18.03	18.00	18.06
		1	99	17.81	17.91	17.80
		50	0	17.78	17.98	17.80
		50	25	17.95	17.92	17.73
		50	50	17.73	17.90	17.59
		100	0	17.71	17.89	17.76

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	22.65	22.97	22.76
		1	37	22.62	22.71	22.72
		1	74	22.59	22.58	22.63
		36	0	21.75	22.08	21.75
		36	19	21.80	21.98	21.91
		36	39	21.67	21.96	21.85
		75	0	21.99	22.00	22.03
	16QAM	1	0	21.95	22.22	21.85
		1	37	22.16	22.22	22.28
		1	74	21.98	22.22	21.98
		36	0	20.74	20.91	20.92
		36	19	20.81	21.04	20.86
		36	39	20.97	20.96	21.02
		75	0	20.93	20.93	20.99
	64QAM	1	0	21.04	21.24	21.13
		1	37	21.25	21.23	21.24
		1	74	21.00	21.20	20.84
		36	0	19.77	19.99	19.88
		36	19	19.93	19.98	20.01
		36	39	19.79	19.82	19.77
		75	0	19.97	20.01	19.92
	256QAM	1	0	17.86	18.11	17.86
		1	37	17.71	17.95	17.65
		1	74	17.86	17.94	17.82
		36	0	17.72	17.94	17.86
		36	19	17.74	18.02	17.99
		36	39	17.60	17.87	17.86
		75	0	17.87	17.88	17.69

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	22.70	23.01	22.84
		1	24	22.49	22.75	22.84
		1	49	22.46	22.66	22.55
		25	0	22.01	21.97	21.83
		25	12	21.72	21.94	21.84
		25	25	21.97	21.90	21.62
		50	0	21.93	21.99	22.02
	16QAM	1	0	22.14	22.28	22.05
		1	24	22.18	22.18	22.03
		1	49	22.23	22.17	21.93
		25	0	20.98	20.99	20.97
		25	12	20.88	21.02	20.97
		25	25	20.93	21.05	21.03
		50	0	20.82	20.88	20.87
	64QAM	1	0	20.98	21.21	20.96
		1	24	21.06	21.19	21.09
		1	49	20.89	21.25	21.25
		25	0	19.97	19.97	19.90
		25	12	19.79	19.99	19.65
		25	25	19.75	19.88	19.76
		50	0	19.83	20.02	19.85
	256QAM	1	0	17.85	18.10	17.96
		1	24	17.75	17.96	17.76
		1	49	17.77	17.86	17.91
		25	0	17.87	17.92	17.88
		25	12	17.92	17.93	17.73
		25	25	17.80	17.93	17.55
		50	0	17.68	17.83	17.94

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	22.71	23.02	22.78
		1	12	22.55	22.84	22.58
		1	24	22.58	22.63	22.67
		12	0	21.77	22.06	21.79
		12	6	21.72	21.89	21.79
		12	13	21.62	21.94	21.84
		25	0	21.77	21.98	21.73
	16QAM	1	0	22.14	22.17	21.92
		1	12	22.14	22.34	22.26
		1	24	22.01	22.20	22.07
		12	0	20.72	21.04	21.00
		12	6	20.97	21.04	20.89
		12	13	20.90	21.04	20.97
		25	0	20.78	21.02	20.72
	64QAM	1	0	21.14	21.30	21.07
		1	12	21.03	21.20	21.08
		1	24	21.11	21.24	20.97
		12	0	19.86	20.05	19.68
		12	6	19.98	20.04	19.85
		12	13	19.72	19.96	19.78
		25	0	20.02	19.94	19.90
	256QAM	1	0	17.92	18.06	18.13
		1	12	17.75	17.92	18.03
		1	24	17.84	17.92	17.96
		12	0	17.90	17.99	17.96
		12	6	18.02	17.88	17.93
		12	13	17.74	17.93	17.69
		25	0	17.93	17.85	17.75

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	22.58	22.97	22.69
		1	7	22.53	22.81	22.66
		1	14	22.34	22.65	22.46
		8	0	22.03	22.02	21.73
		8	3	21.97	21.91	21.86
		8	7	21.71	22.01	21.79
		15	0	21.72	21.96	21.79
	16QAM	1	0	22.19	22.16	21.97
		1	7	22.04	22.27	22.31
		1	14	22.07	22.19	21.98
		8	0	21.02	20.87	20.88
		8	3	20.89	21.01	20.85
		8	7	20.88	21.05	20.91
		15	0	20.96	20.95	20.73
	64QAM	1	0	21.05	21.19	21.00
		1	7	21.24	21.22	21.14
		1	14	21.09	21.30	21.07
		8	0	19.78	19.97	19.75
		8	3	19.85	20.01	19.76
		8	7	19.85	20.00	19.79
		15	0	19.82	19.87	19.66
	256QAM	1	0	17.97	18.03	18.15
		1	7	17.92	17.94	17.69
		1	14	17.87	17.90	17.97
		8	0	17.60	17.95	17.82
		8	3	17.74	17.86	17.80
		8	7	17.62	17.92	17.77
		15	0	17.87	17.89	17.60

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	22.73	22.87	22.77
		1	2	22.69	22.83	22.60
		1	5	22.53	22.56	22.41
		3	0	21.89	21.94	22.06
		3	1	21.82	21.98	21.84
		3	3	21.98	21.86	21.65
		6	0	21.81	22.03	21.85
	16QAM	1	0	21.97	22.20	22.02
		1	2	22.32	22.25	22.16
		1	5	22.06	22.17	22.11
		3	0	20.69	21.09	20.83
		3	1	21.03	21.06	21.04
		3	3	21.02	21.06	20.80
		6	0	20.92	21.06	20.72
	64QAM	1	0	21.10	21.15	21.05
		1	2	21.05	21.23	21.17
		1	5	21.17	21.22	21.09
		3	0	19.78	19.90	20.05
		3	1	19.99	20.07	19.84
		3	3	19.87	19.93	19.93
		6	0	19.75	20.00	19.92
	256QAM	1	0	18.02	18.06	17.93
		1	2	17.84	18.02	17.74
		1	5	17.62	17.98	17.73
		3	0	17.77	17.99	17.79
		3	1	17.87	17.93	17.77
		3	3	17.66	17.97	17.68
		6	0	17.64	17.91	17.79

EIRP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	24.70	25.07	24.80
		1	50	24.61	24.85	24.86
		1	99	24.56	24.69	24.43
		50	0	23.98	24.04	23.76
		50	25	23.97	23.98	23.86
		50	50	23.91	24.06	23.88
		100	0	23.83	24.04	23.88
	16QAM	1	0	24.04	24.25	24.18
		1	50	24.24	24.34	24.33
		1	99	24.11	24.25	24.17
		50	0	22.85	23.07	22.84
		50	25	22.94	23.16	23.02
		50	50	23.13	23.13	22.98
		100	0	23.01	23.04	22.90
	64QAM	1	0	23.18	23.29	23.06
		1	50	23.07	23.31	23.31
		1	99	23.05	23.33	23.22
		50	0	21.76	22.08	22.06
		50	25	21.78	22.10	22.04
		50	50	22.01	22.00	21.87
		100	0	21.88	22.06	21.83
	256QAM	1	0	19.85	20.19	20.23
		1	50	20.06	20.03	20.09
		1	99	19.84	19.94	19.83
		50	0	19.81	20.01	19.83
		50	25	19.98	19.95	19.76
		50	50	19.76	19.93	19.62
		100	0	19.74	19.92	19.79

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	24.68	25.00	24.79
		1	37	24.65	24.74	24.75
		1	74	24.62	24.61	24.66
		36	0	23.78	24.11	23.78
		36	19	23.83	24.01	23.94
		36	39	23.70	23.99	23.88
		75	0	24.02	24.03	24.06
	16QAM	1	0	23.98	24.25	23.88
		1	37	24.19	24.25	24.31
		1	74	24.01	24.25	24.01
		36	0	22.77	22.94	22.95
		36	19	22.84	23.07	22.89
		36	39	23.00	22.99	23.05
		75	0	22.96	22.96	23.02
	64QAM	1	0	23.07	23.27	23.16
		1	37	23.28	23.26	23.27
		1	74	23.03	23.23	22.87
		36	0	21.80	22.02	21.91
		36	19	21.96	22.01	22.04
		36	39	21.82	21.85	21.80
		75	0	22.00	22.04	21.95
	256QAM	1	0	19.89	20.14	19.89
		1	37	19.74	19.98	19.68
		1	74	19.89	19.97	19.85
		36	0	19.75	19.97	19.89
		36	19	19.77	20.05	20.02
		36	39	19.63	19.90	19.89
		75	0	19.90	19.91	19.72

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	24.73	25.04	24.87
		1	24	24.52	24.78	24.87
		1	49	24.49	24.69	24.58
		25	0	24.04	24.00	23.86
		25	12	23.75	23.97	23.87
		25	25	24.00	23.93	23.65
		50	0	23.96	24.02	24.05
	16QAM	1	0	24.17	24.31	24.08
		1	24	24.21	24.21	24.06
		1	49	24.26	24.20	23.96
		25	0	23.01	23.02	23.00
		25	12	22.91	23.05	23.00
		25	25	22.96	23.08	23.06
		50	0	22.85	22.91	22.90
	64QAM	1	0	23.01	23.24	22.99
		1	24	23.09	23.22	23.12
		1	49	22.92	23.28	23.28
		25	0	22.00	22.00	21.93
		25	12	21.82	22.02	21.68
		25	25	21.78	21.91	21.79
		50	0	21.86	22.05	21.88
	256QAM	1	0	19.88	20.13	19.99
		1	24	19.78	19.99	19.79
		1	49	19.80	19.89	19.94
		25	0	19.90	19.95	19.91
		25	12	19.95	19.96	19.76
		25	25	19.83	19.96	19.58
		50	0	19.71	19.86	19.97

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	24.74	25.05	24.81
		1	12	24.58	24.87	24.61
		1	24	24.61	24.66	24.70
		12	0	23.80	24.09	23.82
		12	6	23.75	23.92	23.82
		12	13	23.65	23.97	23.87
		25	0	23.80	24.01	23.76
	16QAM	1	0	24.17	24.20	23.95
		1	12	24.17	24.37	24.29
		1	24	24.04	24.23	24.10
		12	0	22.75	23.07	23.03
		12	6	23.00	23.07	22.92
		12	13	22.93	23.07	23.00
		25	0	22.81	23.05	22.75
	64QAM	1	0	23.17	23.33	23.10
		1	12	23.06	23.23	23.11
		1	24	23.14	23.27	23.00
		12	0	21.89	22.08	21.71
		12	6	22.01	22.07	21.88
		12	13	21.75	21.99	21.81
		25	0	22.05	21.97	21.93
	256QAM	1	0	19.95	20.09	20.16
		1	12	19.78	19.95	20.06
		1	24	19.87	19.95	19.99
		12	0	19.93	20.02	19.99
		12	6	20.05	19.91	19.96
		12	13	19.77	19.96	19.72
		25	0	19.96	19.88	19.78

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	24.61	25.00	24.72
		1	7	24.56	24.84	24.69
		1	14	24.37	24.68	24.49
		8	0	24.06	24.05	23.76
		8	3	24.00	23.94	23.89
		8	7	23.74	24.04	23.82
		15	0	23.75	23.99	23.82
	16QAM	1	0	24.22	24.19	24.00
		1	7	24.07	24.30	24.34
		1	14	24.10	24.22	24.01
		8	0	23.05	22.90	22.91
		8	3	22.92	23.04	22.88
		8	7	22.91	23.08	22.94
		15	0	22.99	22.98	22.76
	64QAM	1	0	23.08	23.22	23.03
		1	7	23.27	23.25	23.17
		1	14	23.12	23.33	23.10
		8	0	21.81	22.00	21.78
		8	3	21.88	22.04	21.79
		8	7	21.88	22.03	21.82
		15	0	21.85	21.90	21.69
	256QAM	1	0	20.00	20.06	20.18
		1	7	19.95	19.97	19.72
		1	14	19.90	19.93	20.00
		8	0	19.63	19.98	19.85
		8	3	19.77	19.89	19.83
		8	7	19.65	19.95	19.80
		15	0	19.90	19.92	19.63

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	24.76	24.90	24.80
		1	2	24.72	24.86	24.63
		1	5	24.56	24.59	24.44
		3	0	23.92	23.97	24.09
		3	1	23.85	24.01	23.87
		3	3	24.01	23.89	23.68
		6	0	23.84	24.06	23.88
	16QAM	1	0	24.00	24.23	24.05
		1	2	24.35	24.28	24.19
		1	5	24.09	24.20	24.14
		3	0	22.72	23.12	22.86
		3	1	23.06	23.09	23.07
		3	3	23.05	23.09	22.83
		6	0	22.95	23.09	22.75
	64QAM	1	0	23.13	23.18	23.08
		1	2	23.08	23.26	23.20
		1	5	23.20	23.25	23.12
		3	0	21.81	21.93	22.08
		3	1	22.02	22.10	21.87
		3	3	21.90	21.96	21.96
		6	0	21.78	22.03	21.95
	256QAM	1	0	20.05	20.09	19.96
		1	2	19.87	20.05	19.77
		1	5	19.65	20.01	19.76
		3	0	19.80	20.02	19.82
		3	1	19.90	19.96	19.80
		3	3	19.69	20.00	19.71
		6	0	19.67	19.94	19.82

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.8 LTE Band 5

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20450	20525	20600
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	23.29	23.34	23.29
		1	24	23.14	**23.36**	23.28
		1	49	23.21	23.13	23.05
		25	0	22.23	22.22	22.17
		25	12	22.17	22.28	22.17
		25	25	22.07	22.25	22.11
		50	0	22.21	22.25	22.20
	16QAM	1	0	22.70	22.97	22.78
		1	24	22.95	22.91	22.70
		1	49	22.73	22.95	22.87
		25	0	21.32	21.22	21.05
		25	12	21.31	21.38	21.30
		25	25	21.28	21.27	21.31
		50	0	21.26	21.22	21.10
	64QAM	1	0	21.48	21.80	21.74
		1	24	21.53	21.65	21.51
		1	49	21.66	21.66	21.60
		25	0	20.21	20.21	20.17
		25	12	20.07	20.29	20.17
		25	25	20.04	20.23	20.16
		50	0	20.04	20.19	20.19
	256QAM	1	0	18.42	18.49	18.29
		1	24	18.32	18.48	18.36
		1	49	18.16	18.41	18.27
		25	0	18.10	18.16	18.00
		25	12	18.15	18.25	18.13
		25	25	17.99	18.20	18.19
		50	0	18.19	18.18	17.90

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20425	20525	20625
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	23.29	23.28	23.26
		1	12	23.13	23.20	23.17
		1	24	23.02	23.15	22.85
		12	0	22.26	22.12	22.05
		12	6	22.05	22.28	22.18
		12	13	21.96	22.29	22.27
		25	0	22.19	22.22	22.12
	16QAM	1	0	22.63	22.80	22.91
		1	12	22.67	22.86	22.80
		1	24	22.88	22.93	22.54
		12	0	21.16	21.17	21.07
		12	6	21.15	21.26	21.26
		12	13	21.04	21.18	21.17
		25	0	21.08	21.16	21.06
	64QAM	1	0	21.35	21.77	21.74
		1	12	21.39	21.68	21.57
		1	24	21.45	21.58	21.50
		12	0	20.08	20.18	20.10
		12	6	19.97	20.23	20.16
		12	13	20.27	20.20	20.02
		25	0	20.09	20.17	19.96
	256QAM	1	0	18.38	18.47	18.35
		1	12	18.35	18.49	18.43
		1	24	18.37	18.40	18.11
		12	0	18.03	18.13	18.16
		12	6	18.19	18.24	17.94
		12	13	18.17	18.19	18.23
		25	0	17.98	18.22	17.93

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20415	20525	20635
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	23.26	**23.36**	23.30
		1	7	23.28	23.26	23.24
		1	14	23.08	23.16	22.92
		8	0	22.06	22.17	22.14
		8	3	22.21	22.19	21.95
		8	7	22.01	22.17	22.16
		15	0	22.29	22.20	21.95
	16QAM	1	0	22.61	22.85	22.80
		1	7	22.91	22.86	22.87
		1	14	22.92	22.78	22.62
		8	0	21.06	21.17	21.02
		8	3	21.09	21.37	21.06
		8	7	21.16	21.19	21.15
		15	0	20.96	21.22	21.28
	64QAM	1	0	21.53	21.80	21.48
		1	7	21.69	21.72	21.42
		1	14	21.51	21.60	21.62
		8	0	20.14	20.04	19.93
		8	3	20.15	20.21	20.10
		8	7	20.02	20.10	19.97
		15	0	20.13	20.19	19.97
	256QAM	1	0	18.25	18.43	18.34
		1	7	18.39	18.49	18.29
		1	14	18.29	18.28	18.23
		8	0	17.94	18.07	17.87
		8	3	18.05	18.20	18.10
		8	7	18.04	18.14	18.11
		15	0	18.08	18.05	17.97

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20407	20525	20643
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	23.29	23.32	23.27
		1	2	23.27	23.25	23.15
		1	5	23.02	23.15	22.86
		3	0	22.00	22.26	22.02
		3	1	22.14	22.25	22.05
		3	3	22.11	22.35	21.97
		6	0	22.25	22.15	22.07
	16QAM	1	0	22.78	22.90	22.69
		1	2	22.72	22.93	22.78
		1	5	22.66	22.80	22.64
		3	0	21.01	21.17	20.96
		3	1	21.06	21.26	21.06
		3	3	21.07	21.34	20.96
		6	0	21.20	21.09	21.04
	64QAM	1	0	21.77	21.60	21.69
		1	2	21.56	21.62	21.30
		1	5	21.56	21.49	21.25
		3	0	19.99	20.11	19.88
		3	1	19.96	20.28	20.09
		3	3	20.21	20.11	20.22
		6	0	20.05	20.21	19.87
	256QAM	1	0	18.57	18.54	18.17
		1	2	18.15	18.42	18.32
		1	5	18.07	18.32	18.36
		3	0	17.83	18.14	18.22
		3	1	17.99	18.29	18.13
		3	3	18.03	18.15	18.06
		6	0	17.97	18.13	18.12

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20450	20525	20600
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	23.77	23.82	23.77
		1	24	23.62	**23.84**	23.76
		1	49	23.69	23.61	23.53
		25	0	22.71	22.70	22.65
		25	12	22.65	22.76	22.65
		25	25	22.55	22.73	22.59
		50	0	22.69	22.73	22.68
	16QAM	1	0	23.18	23.45	23.26
		1	24	23.43	23.39	23.18
		1	49	23.21	23.43	23.35
		25	0	21.80	21.70	21.53
		25	12	21.79	21.86	21.78
		25	25	21.76	21.75	21.79
		50	0	21.74	21.70	21.58
	64QAM	1	0	21.96	22.28	22.22
		1	24	22.01	22.13	21.99
		1	49	22.14	22.14	22.08
		25	0	20.69	20.69	20.65
		25	12	20.55	20.77	20.65
		25	25	20.52	20.71	20.64
		50	0	20.52	20.67	20.67
	256QAM	1	0	18.90	18.97	18.77
		1	24	18.80	18.96	18.84
		1	49	18.64	18.89	18.75
		25	0	18.58	18.64	18.48
		25	12	18.63	18.73	18.61
		25	25	18.47	18.68	18.67
		50	0	18.67	18.66	18.38

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20425	20525	20625
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	23.77	23.76	23.74
		1	12	23.61	23.68	23.65
		1	24	23.50	23.63	23.33
		12	0	22.74	22.60	22.53
		12	6	22.53	22.76	22.66
		12	13	22.44	22.77	22.75
		25	0	22.67	22.70	22.60
	16QAM	1	0	23.11	23.28	23.39
		1	12	23.15	23.34	23.28
		1	24	23.36	23.41	23.02
		12	0	21.64	21.65	21.55
		12	6	21.63	21.74	21.74
		12	13	21.52	21.66	21.65
		25	0	21.56	21.64	21.54
	64QAM	1	0	21.83	22.25	22.22
		1	12	21.87	22.16	22.05
		1	24	21.93	22.06	21.98
		12	0	20.56	20.66	20.58
		12	6	20.45	20.71	20.64
		12	13	20.75	20.68	20.50
		25	0	20.57	20.65	20.44
	256QAM	1	0	18.86	18.95	18.83
		1	12	18.83	18.97	18.91
		1	24	18.85	18.88	18.59
		12	0	18.51	18.61	18.64
		12	6	18.67	18.72	18.42
		12	13	18.65	18.67	18.71
		25	0	18.46	18.70	18.41

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20415	20525	20635
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	23.74	**23.84**	23.78
		1	7	23.76	23.74	23.72
		1	14	23.56	23.64	23.40
		8	0	22.54	22.65	22.62
		8	3	22.69	22.67	22.43
		8	7	22.49	22.65	22.64
		15	0	22.77	22.68	22.43
	16QAM	1	0	23.09	23.33	23.28
		1	7	23.39	23.34	23.35
		1	14	23.40	23.26	23.10
		8	0	21.54	21.65	21.50
		8	3	21.57	21.85	21.54
		8	7	21.64	21.67	21.63
		15	0	21.44	21.70	21.76
	64QAM	1	0	22.01	22.28	21.96
		1	7	22.17	22.20	21.90
		1	14	21.99	22.08	22.10
		8	0	20.62	20.52	20.41
		8	3	20.63	20.69	20.58
		8	7	20.50	20.58	20.45
		15	0	20.61	20.67	20.45
	256QAM	1	0	18.73	18.91	18.82
		1	7	18.87	18.97	18.77
		1	14	18.77	18.76	18.71
		8	0	18.42	18.55	18.35
		8	3	18.53	18.68	18.58
		8	7	18.52	18.62	18.59
		15	0	18.56	18.53	18.45

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20407	20525	20643
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	23.77	23.80	23.75
		1	2	23.75	23.73	23.63
		1	5	23.50	23.63	23.34
		3	0	22.48	22.74	22.50
		3	1	22.62	22.73	22.53
		3	3	22.59	22.83	22.45
		6	0	22.73	22.63	22.55
	16QAM	1	0	23.26	23.38	23.17
		1	2	23.20	23.41	23.26
		1	5	23.14	23.28	23.12
		3	0	21.49	21.65	21.44
		3	1	21.54	21.74	21.54
		3	3	21.55	21.82	21.44
		6	0	21.68	21.57	21.52
	64QAM	1	0	22.25	22.08	22.17
		1	2	22.04	22.10	21.78
		1	5	22.04	21.97	21.73
		3	0	20.47	20.59	20.36
		3	1	20.44	20.76	20.57
		3	3	20.69	20.59	20.70
		6	0	20.53	20.69	20.35
	256QAM	1	0	19.05	19.02	18.65
		1	2	18.63	18.90	18.80
		1	5	18.55	18.80	18.84
		3	0	18.31	18.62	18.70
		3	1	18.47	18.77	18.61
		3	3	18.51	18.63	18.54
		6	0	18.45	18.61	18.60

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.9 LTE Band 7

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20850	21100	21350
		Frequency (MHz)		2510	2535	2560
20M	QPSK	1	0	23.10	**23.16**	22.92
		1	50	23.02	23.09	23.11
		1	99	22.61	22.88	22.60
		50	0	22.11	22.21	21.94
		50	25	22.07	22.14	22.17
		50	50	21.73	21.96	21.74
		100	0	21.89	21.99	21.78
	16QAM	1	0	22.48	22.50	22.46
		1	50	22.11	22.40	22.23
		1	99	22.17	22.33	22.21
		50	0	20.77	21.05	20.82
		50	25	20.93	21.03	20.74
		50	50	20.84	20.93	20.82
		100	0	20.84	21.01	20.75
	64QAM	1	0	21.09	21.23	21.01
		1	50	20.97	21.21	21.07
		1	99	20.86	21.07	21.01
		50	0	20.22	20.27	20.20
		50	25	20.06	20.16	20.06
		50	50	19.91	20.07	20.11
		100	0	19.93	20.18	20.15
	256QAM	1	0	18.37	18.59	18.44
		1	50	18.30	18.37	18.25
		1	99	18.33	18.32	18.29
		50	0	17.97	18.19	18.05
		50	25	17.81	18.09	17.91
		50	50	18.06	17.98	17.83
		100	0	17.88	18.12	17.91

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20825	21100	21375
		Frequency (MHz)		2507.5	2535	2562.5
15M	QPSK	1	0	23.02	22.98	22.84
		1	37	22.95	23.02	22.77
		1	74	22.76	22.86	22.58
		36	0	22.07	22.09	22.19
		36	19	21.98	22.00	22.08
		36	39	21.74	21.94	21.84
		75	0	21.79	21.92	21.86
	16QAM	1	0	22.40	22.45	22.06
		1	37	22.26	22.45	22.02
		1	74	22.15	22.23	21.94
		36	0	21.00	21.08	20.96
		36	19	20.92	21.05	20.76
		36	39	20.76	20.79	20.75
		75	0	20.82	20.91	20.95
	64QAM	1	0	21.11	21.16	21.25
		1	37	21.02	21.14	21.16
		1	74	20.82	21.04	21.02
		36	0	20.11	20.12	20.16
		36	19	20.06	20.14	20.16
		36	39	19.92	20.03	20.00
		75	0	20.09	20.21	20.14
	256QAM	1	0	18.39	18.56	18.13
		1	37	18.29	18.36	18.11
		1	74	18.28	18.34	18.27
		36	0	18.16	18.10	18.12
		36	19	17.77	18.03	17.85
		36	39	17.86	17.89	17.86
		75	0	18.10	17.95	17.98

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20800	21100	21400
		Frequency (MHz)		2505	2535	2565
10M	QPSK	1	0	22.95	23.15	22.86
		1	24	22.86	23.09	22.81
		1	49	22.57	22.72	22.80
		25	0	22.00	22.11	21.98
		25	12	22.11	22.02	21.98
		25	25	21.85	21.77	21.79
		50	0	21.98	21.92	21.96
	16QAM	1	0	22.33	22.42	22.41
		1	24	22.19	22.36	22.01
		1	49	22.16	22.31	22.05
		25	0	21.02	21.13	21.03
		25	12	20.83	20.87	20.73
		25	25	20.62	20.80	20.81
		50	0	20.82	20.85	21.01
	64QAM	1	0	21.24	21.26	21.02
		1	24	21.12	21.15	21.04
		1	49	21.15	20.99	21.06
		25	0	20.01	20.15	20.01
		25	12	20.03	20.17	19.98
		25	25	19.84	19.99	19.89
		50	0	20.04	20.14	19.88
	256QAM	1	0	18.54	18.49	18.33
		1	24	18.30	18.28	18.25
		1	49	18.23	18.20	18.11
		25	0	18.00	18.05	17.99
		25	12	17.70	17.91	17.94
		25	25	17.74	17.94	17.80
		50	0	17.99	18.08	17.84

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20775	21100	21425
		Frequency (MHz)		2502.5	2535	2567.5
5M	QPSK	1	0	22.92	23.09	22.87
		1	12	23.10	22.96	22.99
		1	24	22.59	22.76	22.58
		12	0	22.20	22.07	22.00
		12	6	21.88	22.02	21.98
		12	13	21.68	21.88	21.73
		25	0	21.70	21.85	21.86
	16QAM	1	0	22.29	22.49	22.43
		1	12	22.28	22.39	22.32
		1	24	22.16	22.29	22.12
		12	0	21.02	21.13	20.75
		12	6	20.79	20.98	20.77
		12	13	20.68	20.82	20.88
		25	0	20.77	20.92	20.82
	64QAM	1	0	21.22	21.24	20.99
		1	12	21.07	21.08	21.22
		1	24	21.09	21.10	20.86
		12	0	20.05	20.09	20.15
		12	6	20.00	20.10	20.12
		12	13	20.07	20.11	19.91
		25	0	19.96	20.14	20.13
	256QAM	1	0	18.44	18.51	18.46
		1	12	18.24	18.40	18.12
		1	24	18.16	18.30	18.09
		12	0	18.04	18.14	17.86
		12	6	17.94	17.97	18.01
		12	13	17.82	17.90	17.77
		25	0	17.87	17.99	17.86

EIRP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20850	21100	21350
		Frequency (MHz)		2510	2535	2560
20M	QPSK	1	0	25.36	**25.42**	25.18
		1	50	25.28	25.35	25.37
		1	99	24.87	25.14	24.86
		50	0	24.37	24.47	24.20
		50	25	24.33	24.40	24.43
		50	50	23.99	24.22	24.00
		100	0	24.15	24.25	24.04
	16QAM	1	0	24.74	24.76	24.72
		1	50	24.37	24.66	24.49
		1	99	24.43	24.59	24.47
		50	0	23.03	23.31	23.08
		50	25	23.19	23.29	23.00
		50	50	23.10	23.19	23.08
		100	0	23.10	23.27	23.01
	64QAM	1	0	23.35	23.49	23.27
		1	50	23.23	23.47	23.33
		1	99	23.12	23.33	23.27
		50	0	22.48	22.53	22.46
		50	25	22.32	22.42	22.32
		50	50	22.17	22.33	22.37
		100	0	22.19	22.44	22.41
	256QAM	1	0	20.63	20.85	20.70
		1	50	20.56	20.63	20.51
		1	99	20.59	20.58	20.55
		50	0	20.23	20.45	20.31
		50	25	20.07	20.35	20.17
		50	50	20.32	20.24	20.09
		100	0	20.14	20.38	20.17

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20825	21100	21375
		Frequency (MHz)		2507.5	2535	2562.5
15M	QPSK	1	0	25.28	25.24	25.10
		1	37	25.21	25.28	25.03
		1	74	25.02	25.12	24.84
		36	0	24.33	24.35	24.45
		36	19	24.24	24.26	24.34
		36	39	24.00	24.20	24.10
		75	0	24.05	24.18	24.12
	16QAM	1	0	24.66	24.71	24.32
		1	37	24.52	24.71	24.28
		1	74	24.41	24.49	24.20
		36	0	23.26	23.34	23.22
		36	19	23.18	23.31	23.02
		36	39	23.02	23.05	23.01
		75	0	23.08	23.17	23.21
	64QAM	1	0	23.37	23.42	23.51
		1	37	23.28	23.40	23.42
		1	74	23.08	23.30	23.28
		36	0	22.37	22.38	22.42
		36	19	22.32	22.40	22.42
		36	39	22.18	22.29	22.26
		75	0	22.35	22.47	22.40
	256QAM	1	0	20.65	20.82	20.39
		1	37	20.55	20.62	20.37
		1	74	20.54	20.60	20.53
		36	0	20.42	20.36	20.38
		36	19	20.03	20.29	20.11
		36	39	20.12	20.15	20.12
		75	0	20.36	20.21	20.24

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20800	21100	21400
		Frequency (MHz)		2505	2535	2565
10M	QPSK	1	0	25.21	25.41	25.12
		1	24	25.12	25.35	25.07
		1	49	24.83	24.98	25.06
		25	0	24.26	24.37	24.24
		25	12	24.37	24.28	24.24
		25	25	24.11	24.03	24.05
		50	0	24.24	24.18	24.22
	16QAM	1	0	24.59	24.68	24.67
		1	24	24.45	24.62	24.27
		1	49	24.42	24.57	24.31
		25	0	23.28	23.39	23.29
		25	12	23.09	23.13	22.99
		25	25	22.88	23.06	23.07
		50	0	23.08	23.11	23.27
	64QAM	1	0	23.50	23.52	23.28
		1	24	23.38	23.41	23.30
		1	49	23.41	23.25	23.32
		25	0	22.27	22.41	22.27
		25	12	22.29	22.43	22.24
		25	25	22.10	22.25	22.15
		50	0	22.30	22.40	22.14
	256QAM	1	0	20.80	20.75	20.59
		1	24	20.56	20.54	20.51
		1	49	20.49	20.46	20.37
		25	0	20.26	20.31	20.25
		25	12	19.96	20.17	20.20
		25	25	20.00	20.20	20.06
		50	0	20.25	20.34	20.10

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20775	21100	21425
		Frequency (MHz)		2502.5	2535	2567.5
5M	QPSK	1	0	25.18	25.35	25.13
		1	12	25.36	25.22	25.25
		1	24	24.85	25.02	24.84
		12	0	24.46	24.33	24.26
		12	6	24.14	24.28	24.24
		12	13	23.94	24.14	23.99
		25	0	23.96	24.11	24.12
	16QAM	1	0	24.55	24.75	24.69
		1	12	24.54	24.65	24.58
		1	24	24.42	24.55	24.38
		12	0	23.28	23.39	23.01
		12	6	23.05	23.24	23.03
		12	13	22.94	23.08	23.14
		25	0	23.03	23.18	23.08
	64QAM	1	0	23.48	23.50	23.25
		1	12	23.33	23.34	23.48
		1	24	23.35	23.36	23.12
		12	0	22.31	22.35	22.41
		12	6	22.26	22.36	22.38
		12	13	22.33	22.37	22.17
		25	0	22.22	22.40	22.39
	256QAM	1	0	20.70	20.77	20.72
		1	12	20.50	20.66	20.38
		1	24	20.42	20.56	20.35
		12	0	20.30	20.40	20.12
		12	6	20.20	20.23	20.27
		12	13	20.08	20.16	20.03
		25	0	20.13	20.25	20.12

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.10 LTE Band 12

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23060	23095	23130
		Frequency (MHz)		704	707.5	711
10M	QPSK	1	0	23.46	**23.48**	23.44
		1	24	23.35	23.45	23.16
		1	49	23.37	23.43	23.13
		25	0	22.28	22.55	22.34
		25	12	22.24	22.42	22.40
		25	25	22.27	22.51	22.34
		50	0	22.48	22.60	22.43
	16QAM	1	0	22.65	22.90	22.61
		1	24	22.64	22.86	22.80
		1	49	22.63	22.80	22.53
		25	0	21.49	21.57	21.38
		25	12	21.38	21.46	21.57
		25	25	21.28	21.58	21.39
		50	0	21.29	21.57	21.51
	64QAM	1	0	21.67	21.90	21.91
		1	24	21.54	21.86	21.91
		1	49	21.53	21.82	21.78
		25	0	20.51	20.58	20.52
		25	12	20.20	20.47	20.22
		25	25	20.28	20.52	20.41
		50	0	20.39	20.54	20.29
	256QAM	1	0	18.91	19.02	18.97
		1	24	18.77	18.95	18.62
		1	49	18.72	18.88	18.73
		25	0	18.52	18.80	18.65
		25	12	18.36	18.63	18.54
		25	25	18.59	18.71	18.39
		50	0	18.63	18.71	18.72

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23035	23095	23155
		Frequency (MHz)		701.5	707.5	713.5
5M	QPSK	1	0	23.33	23.42	23.34
		1	12	23.03	23.45	23.38
		1	24	23.24	23.40	23.29
		12	0	22.41	22.52	22.49
		12	6	22.29	22.37	22.12
		12	13	22.50	22.56	22.25
		25	0	22.44	22.44	22.37
	16QAM	1	0	22.54	22.82	22.59
		1	12	22.91	22.73	22.55
		1	24	22.79	22.84	22.55
		12	0	21.31	21.46	21.41
		12	6	21.28	21.36	21.12
		12	13	21.41	21.50	21.36
		25	0	21.38	21.46	21.34
	64QAM	1	0	21.78	21.83	21.72
		1	12	21.82	21.84	21.79
		1	24	21.65	21.75	21.51
		12	0	20.48	20.59	20.42
		12	6	20.55	20.33	20.21
		12	13	20.24	20.41	20.50
		25	0	20.48	20.48	20.49
	256QAM	1	0	18.91	19.02	19.04
		1	12	18.73	18.75	18.78
		1	24	18.74	18.82	18.61
		12	0	18.74	18.75	18.67
		12	6	18.38	18.56	18.47
		12	13	18.44	18.61	18.62
		25	0	18.37	18.68	18.43

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23025	23095	23165
		Frequency (MHz)		700.5	707.5	714.5
3M	QPSK	1	0	23.47	23.45	23.41
		1	7	23.24	23.34	23.14
		1	14	23.12	23.36	23.20
		8	0	22.36	22.45	22.24
		8	3	22.31	22.34	22.12
		8	7	22.43	22.42	22.38
		15	0	22.17	22.46	22.43
	16QAM	1	0	22.63	22.86	22.80
		1	7	22.80	22.85	22.57
		1	14	22.48	22.73	22.47
		8	0	21.49	21.58	21.43
		8	3	21.40	21.52	21.43
		8	7	21.33	21.46	21.24
		15	0	21.23	21.46	21.42
	64QAM	1	0	21.64	21.88	21.67
		1	7	21.56	21.88	21.82
		1	14	21.68	21.86	21.76
		8	0	20.44	20.65	20.39
		8	3	20.30	20.45	20.35
		8	7	20.39	20.41	20.33
		15	0	20.38	20.50	20.37
	256QAM	1	0	19.00	18.90	18.72
		1	7	18.85	18.83	18.69
		1	14	18.69	18.82	18.87
		8	0	18.70	18.76	18.52
		8	3	18.56	18.60	18.57
		8	7	18.70	18.68	18.51
		15	0	18.58	18.64	18.36

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23017	23095	23173
		Frequency (MHz)		699.7	707.5	715.3
1.4M	QPSK	1	0	23.38	23.46	23.32
		1	2	23.43	23.38	23.04
		1	5	23.17	23.33	23.37
		3	0	22.14	22.53	22.26
		3	1	22.35	22.47	22.15
		3	3	22.40	22.57	22.51
		6	0	22.51	22.58	22.48
	16QAM	1	0	22.69	22.81	22.78
		1	2	22.63	22.85	22.65
		1	5	22.75	22.66	22.43
		3	0	21.55	21.45	21.26
		3	1	21.34	21.44	21.46
		3	3	21.19	21.54	21.40
		6	0	21.46	21.50	21.33
	64QAM	1	0	21.61	21.76	21.57
		1	2	21.80	21.80	21.55
		1	5	21.71	21.73	21.69
		3	0	20.45	20.62	20.53
		3	1	20.34	20.40	20.21
		3	3	20.29	20.44	20.44
		6	0	20.32	20.54	20.29
	256QAM	1	0	18.96	18.89	18.88
		1	2	18.64	18.82	18.78
		1	5	18.74	18.88	18.86
		3	0	18.54	18.69	18.56
		3	1	18.42	18.66	18.51
		3	3	18.65	18.59	18.33
		6	0	18.34	18.58	18.31

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23060	23095	23130
		Frequency (MHz)		704	707.5	711
10M	QPSK	1	0	22.94	**22.96**	22.92
		1	24	22.83	22.93	22.64
		1	49	22.85	22.91	22.61
		25	0	21.76	22.03	21.82
		25	12	21.72	21.90	21.88
		25	25	21.75	21.99	21.82
		50	0	21.96	22.08	21.91
	16QAM	1	0	22.13	22.38	22.09
		1	24	22.12	22.34	22.28
		1	49	22.11	22.28	22.01
		25	0	20.97	21.05	20.86
		25	12	20.86	20.94	21.05
		25	25	20.76	21.06	20.87
		50	0	20.77	21.05	20.99
	64QAM	1	0	21.15	21.38	21.39
		1	24	21.02	21.34	21.39
		1	49	21.01	21.30	21.26
		25	0	19.99	20.06	20.00
		25	12	19.68	19.95	19.70
		25	25	19.76	20.00	19.89
		50	0	19.87	20.02	19.77
	256QAM	1	0	18.39	18.50	18.45
		1	24	18.25	18.43	18.10
		1	49	18.20	18.36	18.21
		25	0	18.00	18.28	18.13
		25	12	17.84	18.11	18.02
		25	25	18.07	18.19	17.87
		50	0	18.11	18.19	18.20

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23035	23095	23155
		Frequency (MHz)		701.5	707.5	713.5
5M	QPSK	1	0	22.81	22.90	22.82
		1	12	22.51	22.93	22.86
		1	24	22.72	22.88	22.77
		12	0	21.89	22.00	21.97
		12	6	21.77	21.85	21.60
		12	13	21.98	22.04	21.73
		25	0	21.92	21.92	21.85
	16QAM	1	0	22.02	22.30	22.07
		1	12	22.39	22.21	22.03
		1	24	22.27	22.32	22.03
		12	0	20.79	20.94	20.89
		12	6	20.76	20.84	20.60
		12	13	20.89	20.98	20.84
		25	0	20.86	20.94	20.82
	64QAM	1	0	21.26	21.31	21.20
		1	12	21.30	21.32	21.27
		1	24	21.13	21.23	20.99
		12	0	19.96	20.07	19.90
		12	6	20.03	19.81	19.69
		12	13	19.72	19.89	19.98
		25	0	19.96	19.96	19.97
	256QAM	1	0	18.39	18.50	18.52
		1	12	18.21	18.23	18.26
		1	24	18.22	18.30	18.09
		12	0	18.22	18.23	18.15
		12	6	17.86	18.04	17.95
		12	13	17.92	18.09	18.10
		25	0	17.85	18.16	17.91

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23025	23095	23165
		Frequency (MHz)		700.5	707.5	714.5
3M	QPSK	1	0	22.95	22.93	22.89
		1	7	22.72	22.82	22.62
		1	14	22.60	22.84	22.68
		8	0	21.84	21.93	21.72
		8	3	21.79	21.82	21.60
		8	7	21.91	21.90	21.86
		15	0	21.65	21.94	21.91
	16QAM	1	0	22.11	22.34	22.28
		1	7	22.28	22.33	22.05
		1	14	21.96	22.21	21.95
		8	0	20.97	21.06	20.91
		8	3	20.88	21.00	20.91
		8	7	20.81	20.94	20.72
		15	0	20.71	20.94	20.90
	64QAM	1	0	21.12	21.36	21.15
		1	7	21.04	21.36	21.30
		1	14	21.16	21.34	21.24
		8	0	19.92	20.13	19.87
		8	3	19.78	19.93	19.83
		8	7	19.87	19.89	19.81
		15	0	19.86	19.98	19.85
	256QAM	1	0	18.48	18.38	18.20
		1	7	18.33	18.31	18.17
		1	14	18.17	18.30	18.35
		8	0	18.18	18.24	18.00
		8	3	18.04	18.08	18.05
		8	7	18.18	18.16	17.99
		15	0	18.06	18.12	17.84

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23017	23095	23173
		Frequency (MHz)		699.7	707.5	715.3
1.4M	QPSK	1	0	22.86	22.94	22.80
		1	2	22.91	22.86	22.52
		1	5	22.65	22.81	22.85
		3	0	21.62	22.01	21.74
		3	1	21.83	21.95	21.63
		3	3	21.88	22.05	21.99
		6	0	21.99	22.06	21.96
	16QAM	1	0	22.17	22.29	22.26
		1	2	22.11	22.33	22.13
		1	5	22.23	22.14	21.91
		3	0	21.03	20.93	20.74
		3	1	20.82	20.92	20.94
		3	3	20.67	21.02	20.88
		6	0	20.94	20.98	20.81
	64QAM	1	0	21.09	21.24	21.05
		1	2	21.28	21.28	21.03
		1	5	21.19	21.21	21.17
		3	0	19.93	20.10	20.01
		3	1	19.82	19.88	19.69
		3	3	19.77	19.92	19.92
		6	0	19.80	20.02	19.77
	256QAM	1	0	18.44	18.37	18.36
		1	2	18.12	18.30	18.26
		1	5	18.22	18.36	18.34
		3	0	18.02	18.17	18.04
		3	1	17.90	18.14	17.99
		3	3	18.13	18.07	17.81
		6	0	17.82	18.06	17.79

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.11 LTE Band 13

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid
		Channel		23230
		Frequency (MHz)		782
10M	QPSK	1	0	**23.67**
		1	24	23.64
		1	49	23.49
		25	0	22.45
		25	12	22.39
		25	25	22.43
		50	0	22.47
	16QAM	1	0	23.01
		1	24	22.91
		1	49	22.93
		25	0	21.43
		25	12	21.45
		25	25	21.45
		50	0	21.38
	64QAM	1	0	21.91
		1	24	21.82
		1	49	21.67
		25	0	20.39
		25	12	20.49
		25	25	20.42
		50	0	20.43
	256QAM	1	0	18.90
		1	24	18.75
		1	49	18.86
		25	0	18.31
		25	12	18.48
		25	25	18.37
		50	0	18.36

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23205	23230	23255
		Frequency (MHz)		779.5	782	784.5
5M	QPSK	1	0	23.64	23.54	23.63
		1	12	23.44	23.53	23.57
		1	24	23.54	23.47	23.48
		12	0	22.26	22.52	22.29
		12	6	22.26	22.54	22.29
		12	13	22.25	22.50	22.32
		25	0	22.45	22.45	22.44
	16QAM	1	0	22.80	22.94	22.71
		1	12	22.85	22.96	22.76
		1	24	22.97	22.86	22.78
		12	0	21.39	21.53	21.48
		12	6	21.45	21.59	21.44
		12	13	21.30	21.52	21.46
		25	0	21.49	21.46	21.20
	64QAM	1	0	21.60	21.85	21.69
		1	12	21.51	21.70	21.65
		1	24	21.89	21.77	21.64
		12	0	20.34	20.54	20.51
		12	6	20.36	20.60	20.60
		12	13	20.49	20.42	20.40
		25	0	20.48	20.54	20.30
	256QAM	1	0	18.69	18.85	18.81
		1	12	18.79	18.80	18.59
		1	24	18.72	18.73	18.75
		12	0	18.17	18.47	18.28
		12	6	18.30	18.50	18.25
		12	13	18.14	18.41	18.33
		25	0	18.32	18.31	18.22

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid
		Channel		23230
		Frequency (MHz)		782
10M	QPSK	1	0	**23.15**
		1	24	23.12
		1	49	22.97
		25	0	21.93
		25	12	21.87
		25	25	21.91
		50	0	21.95
	16QAM	1	0	22.49
		1	24	22.39
		1	49	22.41
		25	0	20.91
		25	12	20.93
		25	25	20.93
		50	0	20.86
	64QAM	1	0	21.39
		1	24	21.3
		1	49	21.15
		25	0	19.87
		25	12	19.97
		25	25	19.9
		50	0	19.91
	256QAM	1	0	18.38
		1	24	18.23
		1	49	18.34
		25	0	17.79
		25	12	17.96
		25	25	17.85
		50	0	17.84

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23205	23230	23255
		Frequency (MHz)		779.5	782	784.5
5M	QPSK	1	0	23.12	23.02	23.11
		1	12	22.92	23.01	23.05
		1	24	23.02	22.95	22.96
		12	0	21.74	22.00	21.77
		12	6	21.74	22.02	21.77
		12	13	21.73	21.98	21.80
		25	0	21.93	21.93	21.92
	16QAM	1	0	22.28	22.42	22.19
		1	12	22.33	22.44	22.24
		1	24	22.45	22.34	22.26
		12	0	20.87	21.01	20.96
		12	6	20.93	21.07	20.92
		12	13	20.78	21.00	20.94
		25	0	20.97	20.94	20.68
	64QAM	1	0	21.08	21.33	21.17
		1	12	20.99	21.18	21.13
		1	24	21.37	21.25	21.12
		12	0	19.82	20.02	19.99
		12	6	19.84	20.08	20.08
		12	13	19.97	19.90	19.88
		25	0	19.96	20.02	19.78
	256QAM	1	0	18.17	18.33	18.29
		1	12	18.27	18.28	18.07
		1	24	18.20	18.21	18.23
		12	0	17.65	17.95	17.76
		12	6	17.78	17.98	17.73
		12	13	17.62	17.89	17.81
		25	0	17.80	17.79	17.70

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.12 LTE Band 14

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid
		Channel		23330
		Frequency (MHz)		793
10M	QPSK	1	0	**23.59**
		1	24	23.54
		1	49	23.50
		25	0	22.37
		25	12	22.48
		25	25	22.28
		50	0	22.41
	16QAM	1	0	22.80
		1	24	22.77
		1	49	22.72
		25	0	21.38
		25	12	21.48
		25	25	21.39
		50	0	21.38
	64QAM	1	0	21.82
		1	24	21.94
		1	49	21.78
		25	0	20.31
		25	12	20.54
		25	25	20.40
		50	0	20.32
	256QAM	1	0	18.78
		1	24	18.80
		1	49	18.67
		25	0	18.37
		25	12	18.45
		25	25	18.37
		50	0	18.31

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23305	23330	23355
		Frequency (MHz)		790.5	793	795.5
5M	QPSK	1	0	23.52	23.50	23.48
		1	12	23.36	23.49	23.27
		1	24	23.20	23.48	23.41
		12	0	22.20	22.50	22.37
		12	6	22.25	22.48	22.37
		12	13	22.38	22.39	22.32
		25	0	22.21	22.44	22.18
	16QAM	1	0	22.90	22.90	22.64
		1	12	22.73	23.06	22.95
		1	24	22.85	23.01	22.91
		12	0	21.34	21.52	21.30
		12	6	21.23	21.54	21.57
		12	13	21.31	21.40	21.18
		25	0	21.22	21.41	21.24
	64QAM	1	0	21.58	21.81	21.57
		1	12	21.74	21.75	21.70
		1	24	21.56	21.84	21.78
		12	0	20.26	20.44	20.42
		12	6	20.33	20.52	20.40
		12	13	20.38	20.36	20.35
		25	0	20.37	20.40	20.18
	256QAM	1	0	18.67	18.94	18.77
		1	12	18.63	18.82	18.51
		1	24	18.59	18.71	18.62
		12	0	18.03	18.39	18.19
		12	6	18.40	18.43	18.43
		12	13	18.31	18.34	18.36
		25	0	18.30	18.35	18.28

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid
		Channel		23330
		Frequency (MHz)		793
10M	QPSK	1	0	**23.07**
		1	24	23.02
		1	49	22.98
		25	0	21.85
		25	12	21.96
		25	25	21.76
		50	0	21.89
	16QAM	1	0	22.28
		1	24	22.25
		1	49	22.20
		25	0	20.86
		25	12	20.96
		25	25	20.87
		50	0	20.86
	64QAM	1	0	21.30
		1	24	21.42
		1	49	21.26
		25	0	19.79
		25	12	20.02
		25	25	19.88
		50	0	19.80
	256QAM	1	0	18.26
		1	24	18.28
		1	49	18.15
		25	0	17.85
		25	12	17.93
		25	25	17.85
		50	0	17.79

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23305	23330	23355
		Frequency (MHz)		790.5	793	795.5
5M	QPSK	1	0	23.00	22.98	22.96
		1	12	22.84	22.97	22.75
		1	24	22.68	22.96	22.89
		12	0	21.68	21.98	21.85
		12	6	21.73	21.96	21.85
		12	13	21.86	21.87	21.80
		25	0	21.69	21.92	21.66
	16QAM	1	0	22.38	22.38	22.12
		1	12	22.21	22.54	22.43
		1	24	22.33	22.49	22.39
		12	0	20.82	21.00	20.78
		12	6	20.71	21.02	21.05
		12	13	20.79	20.88	20.66
		25	0	20.70	20.89	20.72
	64QAM	1	0	21.06	21.29	21.05
		1	12	21.22	21.23	21.18
		1	24	21.04	21.32	21.26
		12	0	19.74	19.92	19.90
		12	6	19.81	20.00	19.88
		12	13	19.86	19.84	19.83
		25	0	19.85	19.88	19.66
	256QAM	1	0	18.15	18.42	18.25
		1	12	18.11	18.30	17.99
		1	24	18.07	18.19	18.10
		12	0	17.51	17.87	17.67
		12	6	17.88	17.91	17.91
		12	13	17.79	17.82	17.84
		25	0	17.78	17.83	17.76

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.13 LTE Band 17

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23780	23790	23800
		Frequency (MHz)		709	710	711
10M	QPSK	1	0	23.31	**23.39**	23.25
		1	24	23.12	23.24	23.33
		1	49	23.21	23.25	22.95
		25	0	22.16	22.27	22.00
		25	12	22.12	22.31	22.24
		25	25	22.29	22.28	22.11
		50	0	22.23	22.24	22.24
	16QAM	1	0	22.69	22.82	22.79
		1	24	22.74	22.74	22.59
		1	49	22.41	22.68	22.48
		25	0	21.11	21.26	21.21
		25	12	21.25	21.30	21.17
		25	25	21.13	21.29	21.31
		50	0	21.13	21.30	21.12
	64QAM	1	0	21.41	21.55	21.30
		1	24	21.49	21.53	21.50
		1	49	21.55	21.54	21.53
		25	0	20.33	20.33	20.33
		25	12	20.03	20.26	20.11
		25	25	20.29	20.35	20.20
		50	0	20.16	20.30	20.05
	256QAM	1	0	18.93	18.94	18.78
		1	24	18.71	18.69	18.64
		1	49	18.74	18.76	18.69
		25	0	18.31	18.41	18.41
		25	12	18.19	18.41	18.29
		25	25	18.31	18.45	18.37
		50	0	18.37	18.48	18.41

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23755	23790	23825
		Frequency (MHz)		706.5	710	713.5
5M	QPSK	1	0	23.17	23.28	23.18
		1	12	23.08	23.16	22.92
		1	24	22.95	23.11	23.03
		12	0	21.99	22.12	21.99
		12	6	21.96	22.24	22.06
		12	13	22.08	22.33	22.12
		25	0	22.03	22.19	22.00
	16QAM	1	0	22.55	22.74	22.55
		1	12	22.58	22.65	22.44
		1	24	22.42	22.58	22.52
		12	0	21.30	21.26	21.14
		12	6	21.10	21.29	21.15
		12	13	21.21	21.34	21.27
		25	0	21.05	21.30	21.10
	64QAM	1	0	21.47	21.48	21.49
		1	12	21.40	21.46	21.34
		1	24	21.11	21.49	21.28
		12	0	20.11	20.23	20.16
		12	6	20.04	20.27	20.03
		12	13	20.17	20.23	20.29
		25	0	20.30	20.14	20.17
	256QAM	1	0	18.90	18.93	18.62
		1	12	18.63	18.56	18.39
		1	24	18.74	18.73	18.55
		12	0	18.13	18.30	18.22
		12	6	18.16	18.39	18.38
		12	13	18.46	18.44	18.15
		25	0	18.23	18.44	18.17

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23780	23790	23800
		Frequency (MHz)		709	710	711
10M	QPSK	1	0	22.79	22.87	22.73
		1	24	22.60	22.72	22.81
		1	49	22.69	22.73	22.43
		25	0	21.64	21.75	21.48
		25	12	21.60	21.79	21.72
		25	25	21.77	21.76	21.59
		50	0	21.71	21.72	21.72
	16QAM	1	0	22.17	22.30	22.27
		1	24	22.22	22.22	22.07
		1	49	21.89	22.16	21.96
		25	0	20.59	20.74	20.69
		25	12	20.73	20.78	20.65
		25	25	20.61	20.77	20.79
		50	0	20.61	20.78	20.60
	64QAM	1	0	20.89	21.03	20.78
		1	24	20.97	21.01	20.98
		1	49	21.03	21.02	21.01
		25	0	19.81	19.81	19.81
		25	12	19.51	19.74	19.59
		25	25	19.77	19.83	19.68
		50	0	19.64	19.78	19.53
	256QAM	1	0	18.41	18.42	18.26
		1	24	18.19	18.17	18.12
		1	49	18.22	18.24	18.17
		25	0	17.79	17.89	17.89
		25	12	17.67	17.89	17.77
		25	25	17.79	17.93	17.85
		50	0	17.85	17.96	17.89

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23755	23790	23825
		Frequency (MHz)		706.5	710	713.5
5M	QPSK	1	0	22.65	22.76	22.66
		1	12	22.56	22.64	22.40
		1	24	22.43	22.59	22.51
		12	0	21.47	21.60	21.47
		12	6	21.44	21.72	21.54
		12	13	21.56	21.81	21.60
		25	0	21.51	21.67	21.48
	16QAM	1	0	22.03	22.22	22.03
		1	12	22.06	22.13	21.92
		1	24	21.90	22.06	22.00
		12	0	20.78	20.74	20.62
		12	6	20.58	20.77	20.63
		12	13	20.69	20.82	20.75
		25	0	20.53	20.78	20.58
	64QAM	1	0	20.95	20.96	20.97
		1	12	20.88	20.94	20.82
		1	24	20.59	20.97	20.76
		12	0	19.59	19.71	19.64
		12	6	19.52	19.75	19.51
		12	13	19.65	19.71	19.77
		25	0	19.78	19.62	19.65
	256QAM	1	0	18.38	18.41	18.10
		1	12	18.11	18.04	17.87
		1	24	18.22	18.21	18.03
		12	0	17.61	17.78	17.70
		12	6	17.64	17.87	17.86
		12	13	17.94	17.92	17.63
		25	0	17.71	17.92	17.65

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.14 LTE Band 25

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	23.09	23.20	23.11
		1	50	23.03	23.15	23.02
		1	99	22.85	23.10	23.08
		50	0	22.35	22.40	22.23
		50	25	22.09	22.22	22.17
		50	50	22.18	22.21	22.13
		100	0	21.97	22.12	22.14
	16QAM	1	0	22.54	22.75	22.51
		1	50	22.76	22.88	22.79
		1	99	22.51	22.51	22.31
		50	0	21.03	21.37	21.13
		50	25	21.19	21.42	21.18
		50	50	21.44	21.34	21.13
		100	0	21.17	21.34	21.18
	64QAM	1	0	21.55	21.70	21.60
		1	50	21.74	21.66	21.74
		1	99	21.63	21.65	21.64
		50	0	20.07	20.27	20.31
		50	25	20.20	20.34	20.33
		50	50	20.12	20.34	20.06
		100	0	20.30	20.36	20.17
	256QAM	1	0	18.60	18.63	18.55
		1	50	18.35	18.60	18.53
		1	99	18.37	18.58	18.53
		50	0	18.22	18.29	18.28
		50	25	18.12	18.34	18.10
		50	50	18.29	18.27	18.06
		100	0	18.20	18.32	18.22

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	22.98	23.17	23.10
		1	37	23.05	23.13	23.04
		1	74	22.98	22.99	22.89
		36	0	22.10	22.36	22.05
		36	19	22.17	22.16	22.00
		36	39	21.88	22.15	21.92
		75	0	21.87	22.04	21.96
	16QAM	1	0	22.46	22.78	22.45
		1	37	22.59	22.77	22.75
		1	74	22.55	22.54	22.38
		36	0	21.12	21.34	21.21
		36	19	21.25	21.31	21.22
		36	39	21.14	21.29	21.03
		75	0	21.23	21.25	21.23
	64QAM	1	0	21.58	21.67	21.59
		1	37	21.50	21.68	21.61
		1	74	21.33	21.58	21.41
		36	0	20.04	20.30	20.12
		36	19	20.22	20.30	20.03
		36	39	20.37	20.24	20.01
		75	0	20.06	20.19	20.26
	256QAM	1	0	18.47	18.56	18.35
		1	37	18.41	18.57	18.60
		1	74	18.44	18.37	18.28
		36	0	18.23	18.28	18.13
		36	19	18.23	18.17	18.10
		36	39	18.09	18.30	18.28
		75	0	18.06	18.24	18.08

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	22.96	23.13	23.14
		1	24	22.87	23.11	23.07
		1	49	22.90	23.01	23.10
		25	0	22.06	22.31	22.25
		25	12	22.12	22.13	22.12
		25	25	22.24	22.19	21.93
		50	0	21.76	22.08	21.81
	16QAM	1	0	22.60	22.68	22.65
		1	24	22.77	22.67	22.58
		1	49	22.17	22.42	22.18
		25	0	21.20	21.36	21.32
		25	12	21.03	21.33	21.24
		25	25	21.32	21.38	21.26
		50	0	21.30	21.32	21.03
	64QAM	1	0	21.62	21.72	21.43
		1	24	21.50	21.70	21.76
		1	49	21.62	21.56	21.38
		25	0	20.01	20.29	20.05
		25	12	20.11	20.30	20.29
		25	25	20.29	20.17	19.94
		50	0	20.30	20.28	20.09
	256QAM	1	0	18.48	18.67	18.51
		1	24	18.30	18.58	18.56
		1	49	18.26	18.51	18.22
		25	0	18.01	18.27	18.22
		25	12	18.03	18.27	18.22
		25	25	18.03	18.25	18.25
		50	0	18.11	18.23	18.25

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	22.99	23.16	23.03
		1	12	22.92	23.08	22.95
		1	24	22.79	23.06	22.92
		12	0	22.09	22.29	22.00
		12	6	22.18	22.18	22.14
		12	13	22.11	22.15	21.85
		25	0	21.95	22.08	21.83
	16QAM	1	0	22.58	22.64	22.68
		1	12	22.60	22.76	22.66
		1	24	22.44	22.47	22.36
		12	0	21.22	21.35	21.26
		12	6	21.16	21.33	21.12
		12	13	21.22	21.31	21.12
		25	0	21.26	21.30	21.17
	64QAM	1	0	21.50	21.74	21.71
		1	12	21.55	21.64	21.52
		1	24	21.39	21.60	21.50
		12	0	20.17	20.31	20.16
		12	6	20.27	20.30	20.05
		12	13	20.14	20.21	20.23
		25	0	20.12	20.26	20.11
	256QAM	1	0	18.62	18.58	18.49
		1	12	18.37	18.56	18.58
		1	24	18.31	18.43	18.33
		12	0	18.16	18.31	18.22
		12	6	18.20	18.29	18.20
		12	13	18.04	18.23	17.93
		25	0	18.07	18.17	18.04

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3M	QPSK	1	0	22.97	**23.21**	23.08
		1	7	22.95	23.13	23.04
		1	14	22.78	23.06	22.81
		8	0	22.29	22.38	22.12
		8	3	22.25	22.29	22.15
		8	7	21.93	22.13	22.01
		15	0	21.86	21.99	21.99
	16QAM	1	0	22.53	22.69	22.41
		1	7	22.74	22.76	22.56
		1	14	22.32	22.49	22.48
		8	0	21.27	21.31	21.39
		8	3	21.23	21.46	21.03
		8	7	21.12	21.27	21.28
		15	0	21.12	21.25	21.25
	64QAM	1	0	21.34	21.69	21.49
		1	7	21.60	21.74	21.35
		1	14	21.59	21.57	21.58
		8	0	20.26	20.20	20.07
		8	3	20.16	20.35	20.29
		8	7	19.97	20.18	20.08
		15	0	20.20	20.30	20.00
	256QAM	1	0	18.41	18.54	18.58
		1	7	18.28	18.50	18.41
		1	14	18.48	18.41	18.32
		8	0	18.19	18.18	18.09
		8	3	18.23	18.18	18.13
		8	7	18.08	18.34	18.04
		15	0	18.07	18.22	17.98

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	22.97	23.11	23.12
		1	2	22.92	23.05	23.03
		1	5	22.83	22.99	22.86
		3	0	22.02	22.28	22.23
		3	1	22.07	22.27	22.02
		3	3	21.90	22.13	21.99
		6	0	21.84	22.09	21.83
	16QAM	1	0	22.65	22.61	22.63
		1	2	22.56	22.81	22.57
		1	5	22.42	22.50	22.22
		3	0	21.11	21.20	21.26
		3	1	21.26	21.33	21.16
		3	3	21.07	21.40	21.17
		6	0	21.25	21.32	21.19
	64QAM	1	0	21.44	21.70	21.45
		1	2	21.77	21.75	21.54
		1	5	21.56	21.64	21.46
		3	0	20.12	20.22	20.21
		3	1	20.17	20.30	20.35
		3	3	20.23	20.21	20.05
		6	0	20.15	20.23	20.12
	256QAM	1	0	18.48	18.61	18.36
		1	2	18.55	18.47	18.44
		1	5	18.55	18.56	18.51
		3	0	18.20	18.23	18.06
		3	1	18.07	18.27	18.13
		3	3	18.14	18.29	18.14
		6	0	18.01	18.21	18.18

EIRP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	25.12	25.23	25.14
		1	50	25.06	25.18	25.05
		1	99	24.88	25.13	25.11
		50	0	24.38	24.43	24.26
		50	25	24.12	24.25	24.20
		50	50	24.21	24.24	24.16
		100	0	24.00	24.15	24.17
	16QAM	1	0	24.57	24.78	24.54
		1	50	24.79	24.91	24.82
		1	99	24.54	24.54	24.34
		50	0	23.06	23.40	23.16
		50	25	23.22	23.45	23.21
		50	50	23.47	23.37	23.16
		100	0	23.20	23.37	23.21
	64QAM	1	0	23.58	23.73	23.63
		1	50	23.77	23.69	23.77
		1	99	23.66	23.68	23.67
		50	0	22.10	22.30	22.34
		50	25	22.23	22.37	22.36
		50	50	22.15	22.37	22.09
		100	0	22.33	22.39	22.20
	256QAM	1	0	20.63	20.66	20.58
		1	50	20.38	20.63	20.56
		1	99	20.40	20.61	20.56
		50	0	20.25	20.32	20.31
		50	25	20.15	20.37	20.13
		50	50	20.32	20.30	20.09
		100	0	20.23	20.35	20.25

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	25.01	25.20	25.13
		1	37	25.08	25.16	25.07
		1	74	25.01	25.02	24.92
		36	0	24.13	24.39	24.08
		36	19	24.20	24.19	24.03
		36	39	23.91	24.18	23.95
		75	0	23.90	24.07	23.99
	16QAM	1	0	24.49	24.81	24.48
		1	37	24.62	24.80	24.78
		1	74	24.58	24.57	24.41
		36	0	23.15	23.37	23.24
		36	19	23.28	23.34	23.25
		36	39	23.17	23.32	23.06
		75	0	23.26	23.28	23.26
	64QAM	1	0	23.61	23.70	23.62
		1	37	23.53	23.71	23.64
		1	74	23.36	23.61	23.44
		36	0	22.07	22.33	22.15
		36	19	22.25	22.33	22.06
		36	39	22.40	22.27	22.04
		75	0	22.09	22.22	22.29
	256QAM	1	0	20.50	20.59	20.38
		1	37	20.44	20.60	20.63
		1	74	20.47	20.40	20.31
		36	0	20.26	20.31	20.16
		36	19	20.26	20.20	20.13
		36	39	20.12	20.33	20.31
		75	0	20.09	20.27	20.11

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	24.99	25.16	25.17
		1	24	24.90	25.14	25.10
		1	49	24.93	25.04	25.13
		25	0	24.09	24.34	24.28
		25	12	24.15	24.16	24.15
		25	25	24.27	24.22	23.96
		50	0	23.79	24.11	23.84
	16QAM	1	0	24.63	24.71	24.68
		1	24	24.80	24.70	24.61
		1	49	24.20	24.45	24.21
		25	0	23.23	23.39	23.35
		25	12	23.06	23.36	23.27
		25	25	23.35	23.41	23.29
		50	0	23.33	23.35	23.06
	64QAM	1	0	23.65	23.75	23.46
		1	24	23.53	23.73	23.79
		1	49	23.65	23.59	23.41
		25	0	22.04	22.32	22.08
		25	12	22.14	22.33	22.32
		25	25	22.32	22.20	21.97
		50	0	22.33	22.31	22.12
	256QAM	1	0	20.51	20.70	20.54
		1	24	20.33	20.61	20.59
		1	49	20.29	20.54	20.25
		25	0	20.04	20.30	20.25
		25	12	20.06	20.30	20.25
		25	25	20.06	20.28	20.28
		50	0	20.14	20.26	20.28

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	25.02	25.19	25.06
		1	12	24.95	25.11	24.98
		1	24	24.82	25.09	24.95
		12	0	24.12	24.32	24.03
		12	6	24.21	24.21	24.17
		12	13	24.14	24.18	23.88
		25	0	23.98	24.11	23.86
	16QAM	1	0	24.61	24.67	24.71
		1	12	24.63	24.79	24.69
		1	24	24.47	24.50	24.39
		12	0	23.25	23.38	23.29
		12	6	23.19	23.36	23.15
		12	13	23.25	23.34	23.15
		25	0	23.29	23.33	23.20
	64QAM	1	0	23.53	23.77	23.74
		1	12	23.58	23.67	23.55
		1	24	23.42	23.63	23.53
		12	0	22.20	22.34	22.19
		12	6	22.30	22.33	22.08
		12	13	22.17	22.24	22.26
		25	0	22.15	22.29	22.14
	256QAM	1	0	20.65	20.61	20.52
		1	12	20.40	20.59	20.61
		1	24	20.34	20.46	20.36
		12	0	20.19	20.34	20.25
		12	6	20.23	20.32	20.23
		12	13	20.07	20.26	19.96
		25	0	20.10	20.20	20.07

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3M	QPSK	1	0	25.00	**25.24**	25.11
		1	7	24.98	25.16	25.07
		1	14	24.81	25.09	24.84
		8	0	24.32	24.41	24.15
		8	3	24.28	24.32	24.18
		8	7	23.96	24.16	24.04
		15	0	23.89	24.02	24.02
	16QAM	1	0	24.56	24.72	24.44
		1	7	24.77	24.79	24.59
		1	14	24.35	24.52	24.51
		8	0	23.30	23.34	23.42
		8	3	23.26	23.49	23.06
		8	7	23.15	23.30	23.31
		15	0	23.15	23.28	23.28
	64QAM	1	0	23.37	23.72	23.52
		1	7	23.63	23.77	23.38
		1	14	23.62	23.60	23.61
		8	0	22.29	22.23	22.10
		8	3	22.19	22.38	22.32
		8	7	22.00	22.21	22.11
		15	0	22.23	22.33	22.03
	256QAM	1	0	20.44	20.57	20.61
		1	7	20.31	20.53	20.44
		1	14	20.51	20.44	20.35
		8	0	20.22	20.21	20.12
		8	3	20.26	20.21	20.16
		8	7	20.11	20.37	20.07
		15	0	20.10	20.25	20.01

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	25.00	25.14	25.15
		1	2	24.95	25.08	25.06
		1	5	24.86	25.02	24.89
		3	0	24.05	24.31	24.26
		3	1	24.10	24.30	24.05
		3	3	23.93	24.16	24.02
		6	0	23.87	24.12	23.86
	16QAM	1	0	24.68	24.64	24.66
		1	2	24.59	24.84	24.60
		1	5	24.45	24.53	24.25
		3	0	23.14	23.23	23.29
		3	1	23.29	23.36	23.19
		3	3	23.10	23.43	23.20
		6	0	23.28	23.35	23.22
	64QAM	1	0	23.47	23.73	23.48
		1	2	23.80	23.78	23.57
		1	5	23.59	23.67	23.49
		3	0	22.15	22.25	22.24
		3	1	22.20	22.33	22.38
		3	3	22.26	22.24	22.08
		6	0	22.18	22.26	22.15
	256QAM	1	0	20.51	20.64	20.39
		1	2	20.58	20.50	20.47
		1	5	20.58	20.59	20.54
		3	0	20.23	20.26	20.09
		3	1	20.10	20.30	20.16
		3	3	20.17	20.32	20.17
		6	0	20.04	20.24	20.21

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.15 LTE Band 26 (814-824 MHz)

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid
		Channel		26740
		Frequency (MHz)		819
10M	QPSK	1	0	23.36
		1	24	23.34
		1	49	23.23
		25	0	22.14
		25	12	22.28
		25	25	22.23
		50	0	22.25
	16QAM	1	0	22.74
		1	24	22.68
		1	49	22.76
		25	0	21.17
		25	12	21.28
		25	25	21.26
		50	0	21.27
	64QAM	1	0	21.57
		1	24	21.52
		1	49	21.56
		25	0	20.21
		25	12	20.28
		25	25	20.17
		50	0	20.30
	256QAM	1	0	18.66
		1	24	18.50
		1	49	18.35
		25	0	18.14
		25	12	18.15
		25	25	18.17
		50	0	18.23

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26715	26740	26765
		Frequency (MHz)		816.5	819	821.5
5M	QPSK	1	0	23.34	23.32	23.40
		1	12	23.19	23.28	23.07
		1	24	23.11	23.36	23.16
		12	0	22.43	22.31	22.33
		12	6	22.13	22.41	22.21
		12	13	22.41	22.41	22.21
		25	0	22.16	22.37	22.23
	16QAM	1	0	22.87	22.87	22.69
		1	12	22.67	22.91	22.86
		1	24	22.63	22.92	22.70
		12	0	21.26	21.34	21.37
		12	6	21.40	21.45	21.41
		12	13	21.20	21.34	21.20
		25	0	21.33	21.43	21.41
	64QAM	1	0	21.51	21.82	21.70
		1	12	21.71	21.70	21.75
		1	24	21.72	21.74	21.62
		12	0	20.13	20.46	20.21
		12	6	20.38	20.43	20.17
		12	13	20.47	20.42	20.18
		25	0	20.39	20.40	20.46
	256QAM	1	0	18.42	18.63	18.55
		1	12	18.41	18.64	18.32
		1	24	18.49	18.53	18.32
		12	0	18.08	18.33	18.03
		12	6	18.23	18.27	18.22
		12	13	18.00	18.30	18.20
		25	0	18.31	18.33	18.36

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26705	26740	26775
		Frequency (MHz)		815.5	819	822.5
3M	QPSK	1	0	23.29	23.30	23.37
		1	7	23.28	23.23	23.09
		1	14	23.20	23.34	23.17
		8	0	22.25	22.29	22.28
		8	3	22.34	22.29	22.27
		8	7	22.17	22.32	22.15
		15	0	22.18	22.30	22.11
	16QAM	1	0	22.82	22.82	22.84
		1	7	22.86	22.71	22.81
		1	14	22.77	22.83	22.85
		8	0	21.02	21.35	21.15
		8	3	21.27	21.36	21.22
		8	7	21.13	21.38	21.17
		15	0	21.25	21.38	21.26
	64QAM	1	0	21.52	21.72	21.62
		1	7	21.36	21.77	21.62
		1	14	21.53	21.71	21.59
		8	0	20.11	20.40	20.33
		8	3	20.13	20.34	20.13
		8	7	20.21	20.44	20.35
		15	0	20.04	20.41	20.30
	256QAM	1	0	18.58	18.53	18.54
		1	7	18.36	18.53	18.28
		1	14	18.58	18.49	18.28
		8	0	18.26	18.19	18.01
		8	3	18.13	18.14	18.19
		8	7	18.14	18.18	17.98
		15	0	18.06	18.30	18.26

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26697	26740	26783
		Frequency (MHz)		814.7	819	823.3
1.4M	QPSK	1	0	23.24	23.26	23.26
		1	2	23.11	23.16	23.13
		1	5	23.19	23.23	23.27
		3	0	22.20	22.33	22.06
		3	1	22.11	22.34	22.19
		3	3	22.27	22.31	22.36
		6	0	22.33	22.31	22.24
	16QAM	1	0	22.90	22.87	22.82
		1	2	22.70	22.91	22.75
		1	5	22.74	22.79	22.65
		3	0	21.27	21.37	21.27
		3	1	21.39	21.37	21.24
		3	3	21.38	21.29	21.26
		6	0	21.21	21.29	21.28
	64QAM	1	0	21.75	21.82	21.55
		1	2	21.61	21.72	21.73
		1	5	21.76	21.75	21.46
		3	0	20.21	20.36	20.14
		3	1	20.27	20.39	20.40
		3	3	20.31	20.41	20.17
		6	0	20.23	20.29	20.21
	256QAM	1	0	18.54	18.58	18.42
		1	2	18.44	18.57	18.56
		1	5	18.27	18.52	18.17
		3	0	18.27	18.22	18.20
		3	1	18.15	18.23	18.17
		3	3	18.15	18.24	17.94
		6	0	18.22	18.32	18.30

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid
		Channel		26740
		Frequency (MHz)		819
10M	QPSK	1	0	23.84
		1	24	23.82
		1	49	23.71
		25	0	22.62
		25	12	22.76
		25	25	22.71
		50	0	22.73
	16QAM	1	0	23.22
		1	24	23.16
		1	49	23.24
		25	0	21.65
		25	12	21.76
		25	25	21.74
		50	0	21.75
	64QAM	1	0	22.05
		1	24	22.00
		1	49	22.04
		25	0	20.69
		25	12	20.76
		25	25	20.65
		50	0	20.78
	256QAM	1	0	19.14
		1	24	18.98
		1	49	18.83
		25	0	18.62
		25	12	18.63
		25	25	18.65
		50	0	18.71

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26715	26740	26765
		Frequency (MHz)		816.5	819	821.5
5M	QPSK	1	0	23.82	23.80	23.88
		1	12	23.67	23.76	23.55
		1	24	23.59	23.84	23.64
		12	0	22.91	22.79	22.81
		12	6	22.61	22.89	22.69
		12	13	22.89	22.89	22.69
		25	0	22.64	22.85	22.71
	16QAM	1	0	23.35	23.35	23.17
		1	12	23.15	23.39	23.34
		1	24	23.11	23.40	23.18
		12	0	21.74	21.82	21.85
		12	6	21.88	21.93	21.89
		12	13	21.68	21.82	21.68
		25	0	21.81	21.91	21.89
	64QAM	1	0	21.99	22.30	22.18
		1	12	22.19	22.18	22.23
		1	24	22.20	22.22	22.10
		12	0	20.61	20.94	20.69
		12	6	20.86	20.91	20.65
		12	13	20.95	20.90	20.66
		25	0	20.87	20.88	20.94
	256QAM	1	0	18.90	19.11	19.03
		1	12	18.89	19.12	18.80
		1	24	18.97	19.01	18.80
		12	0	18.56	18.81	18.51
		12	6	18.71	18.75	18.70
		12	13	18.48	18.78	18.68
		25	0	18.79	18.81	18.84

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26705	26740	26775
		Frequency (MHz)		815.5	819	822.5
3M	QPSK	1	0	23.77	23.78	23.85
		1	7	23.76	23.71	23.57
		1	14	23.68	23.82	23.65
		8	0	22.73	22.77	22.76
		8	3	22.82	22.77	22.75
		8	7	22.65	22.80	22.63
		15	0	22.66	22.78	22.59
	16QAM	1	0	23.30	23.30	23.32
		1	7	23.34	23.19	23.29
		1	14	23.25	23.31	23.33
		8	0	21.50	21.83	21.63
		8	3	21.75	21.84	21.70
		8	7	21.61	21.86	21.65
		15	0	21.73	21.86	21.74
	64QAM	1	0	22.00	22.20	22.10
		1	7	21.84	22.25	22.10
		1	14	22.01	22.19	22.07
		8	0	20.59	20.88	20.81
		8	3	20.61	20.82	20.61
		8	7	20.69	20.92	20.83
		15	0	20.52	20.89	20.78
	256QAM	1	0	19.06	19.01	19.02
		1	7	18.84	19.01	18.76
		1	14	19.06	18.97	18.76
		8	0	18.74	18.67	18.49
		8	3	18.61	18.62	18.67
		8	7	18.62	18.66	18.46
		15	0	18.54	18.78	18.74

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26697	26740	26783
		Frequency (MHz)		814.7	819	823.3
1.4M	QPSK	1	0	23.72	23.74	23.74
		1	2	23.59	23.64	23.61
		1	5	23.67	23.71	23.75
		3	0	22.68	22.81	22.54
		3	1	22.59	22.82	22.67
		3	3	22.75	22.79	22.84
		6	0	22.81	22.79	22.72
	16QAM	1	0	23.38	23.35	23.30
		1	2	23.18	23.39	23.23
		1	5	23.22	23.27	23.13
		3	0	21.75	21.85	21.75
		3	1	21.87	21.85	21.72
		3	3	21.86	21.77	21.74
		6	0	21.69	21.77	21.76
	64QAM	1	0	22.23	22.30	22.03
		1	2	22.09	22.20	22.21
		1	5	22.24	22.23	21.94
		3	0	20.69	20.84	20.62
		3	1	20.75	20.87	20.88
		3	3	20.79	20.89	20.65
		6	0	20.71	20.77	20.69
	256QAM	1	0	19.02	19.06	18.90
		1	2	18.92	19.05	19.04
		1	5	18.75	19.00	18.65
		3	0	18.75	18.70	18.68
		3	1	18.63	18.71	18.65
		3	3	18.63	18.72	18.42
		6	0	18.70	18.80	18.78

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.16 LTE Band 26 (824-849 MHz)

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26865	26915	26965
		Frequency (MHz)		831.5	836.5	841.5
15M	QPSK	1	0	23.19	23.34	23.12
		1	37	23.15	23.25	22.96
		1	74	23.15	23.16	23.17
		36	0	22.98	23.09	23.03
		36	19	22.06	22.12	21.87
		36	39	21.96	22.18	22.04
		75	0	22.13	22.19	22.07
	16QAM	1	0	21.96	22.14	22.17
		1	37	22.57	22.59	22.41
		1	74	22.37	22.63	22.63
		36	0	22.39	22.67	22.58
		36	19	20.87	21.21	20.93
		36	39	21.22	21.18	21.26
		75	0	20.89	21.19	21.10
	64QAM	1	0	21.13	21.18	21.23
		1	37	21.40	21.45	21.33
		1	74	21.30	21.34	21.22
		36	0	21.17	21.42	21.29
		36	19	20.14	20.22	20.19
		36	39	20.15	20.17	20.20
		75	0	20.11	20.15	19.93
	256QAM	1	0	20.06	20.19	20.15
		1	37	18.41	18.47	18.40
		1	74	18.41	18.62	18.41
		36	0	18.18	18.37	18.28
		36	19	17.88	18.11	18.09
		36	39	18.14	18.17	17.85
		75	0	17.94	18.12	18.11

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	23.21	23.40	23.11
		1	24	23.28	23.22	22.97
		1	49	22.99	23.12	22.88
		25	0	22.12	22.31	22.27
		25	12	22.02	22.33	22.12
		25	25	22.09	22.27	22.14
		50	0	22.09	22.28	22.25
	16QAM	1	0	22.47	22.70	22.49
		1	24	22.65	22.74	22.65
		1	49	22.56	22.71	22.72
		25	0	21.31	21.27	21.12
		25	12	21.25	21.34	21.30
		25	25	21.22	21.39	21.23
		50	0	20.99	21.18	21.18
	64QAM	1	0	21.60	21.61	21.56
		1	24	21.33	21.60	21.63
		1	49	21.49	21.49	21.30
		25	0	20.03	20.20	20.23
		25	12	20.06	20.34	20.31
		25	25	20.18	20.41	20.20
		50	0	20.29	20.28	20.20
	256QAM	1	0	18.44	18.66	18.42
		1	24	18.56	18.60	18.58
		1	49	18.51	18.59	18.52
		25	0	18.04	18.15	18.23
		25	12	17.99	18.21	18.16
		25	25	18.22	18.22	18.25
		50	0	18.06	18.23	18.02

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26815	26915	27015
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	23.29	23.37	23.21
		1	12	23.26	23.25	23.16
		1	24	23.06	23.23	23.20
		12	0	22.19	22.38	22.33
		12	6	22.09	22.31	22.27
		12	13	22.15	22.34	22.27
		25	0	22.15	22.37	22.02
	16QAM	1	0	22.65	22.71	22.69
		1	12	22.64	22.72	22.57
		1	24	22.51	22.69	22.71
		12	0	21.01	21.36	21.25
		12	6	21.29	21.32	21.26
		12	13	21.23	21.40	21.13
		25	0	21.17	21.32	21.07
	64QAM	1	0	21.55	21.72	21.60
		1	12	21.44	21.50	21.43
		1	24	21.21	21.37	21.36
		12	0	20.04	20.28	20.24
		12	6	20.23	20.31	20.09
		12	13	20.27	20.29	20.12
		25	0	20.03	20.30	20.15
	256QAM	1	0	18.44	18.58	18.51
		1	12	18.37	18.55	18.40
		1	24	18.48	18.61	18.46
		12	0	18.03	18.16	18.19
		12	6	17.94	18.28	17.98
		12	13	18.18	18.22	18.16
		25	0	17.97	18.30	18.18

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26805	26915	27025
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	23.15	23.28	23.15
		1	7	23.12	23.22	23.13
		1	14	23.10	23.20	22.99
		8	0	22.29	22.29	22.04
		8	3	22.27	22.20	22.12
		8	7	22.37	22.33	22.27
		15	0	22.10	22.28	22.32
	16QAM	1	0	22.55	22.62	22.58
		1	7	22.56	22.57	22.54
		1	14	22.44	22.63	22.47
		8	0	21.20	21.26	21.05
		8	3	21.16	21.18	21.04
		8	7	21.19	21.27	21.10
		15	0	21.18	21.21	21.22
	64QAM	1	0	21.39	21.72	21.59
		1	7	21.24	21.56	21.22
		1	14	21.07	21.36	21.30
		8	0	20.21	20.27	20.11
		8	3	20.24	20.35	20.23
		8	7	20.24	20.26	20.20
		15	0	20.35	20.36	19.97
	256QAM	1	0	18.33	18.62	18.61
		1	7	18.38	18.50	18.26
		1	14	18.60	18.51	18.30
		8	0	17.90	18.21	18.11
		8	3	18.14	18.28	17.96
		8	7	18.20	18.17	18.11
		15	0	18.06	18.22	18.17

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26797	26915	27033
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	23.15	23.16	23.14
		1	2	23.11	23.26	23.21
		1	5	22.97	23.10	23.04
		3	0	22.02	22.22	22.38
		3	1	21.92	22.26	22.04
		3	3	21.99	22.25	22.19
		6	0	22.27	22.33	22.12
	16QAM	1	0	22.40	22.77	22.59
		1	2	22.43	22.62	22.56
		1	5	22.64	22.72	22.36
		3	0	21.10	21.30	21.08
		3	1	21.11	21.25	20.98
		3	3	21.15	21.40	21.28
		6	0	21.02	21.17	21.09
	64QAM	1	0	21.58	21.61	21.55
		1	2	21.25	21.48	21.44
		1	5	21.23	21.35	21.27
		3	0	20.08	20.24	19.91
		3	1	20.28	20.26	20.11
		3	3	20.14	20.23	20.02
		6	0	19.98	20.31	20.23
	256QAM	1	0	18.47	18.60	18.46
		1	2	18.26	18.59	18.19
		1	5	18.39	18.53	18.34
		3	0	17.88	18.09	18.17
		3	1	18.00	18.11	18.13
		3	3	18.15	18.21	17.96
		6	0	17.94	18.25	17.98

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26865	26915	26965
		Frequency (MHz)		831.5	836.5	841.5
15M	QPSK	1	0	23.67	23.82	23.60
		1	37	23.63	23.73	23.44
		1	74	23.63	23.64	23.65
		36	0	23.46	23.57	23.51
		36	19	22.54	22.60	22.35
		36	39	22.44	22.66	22.52
		75	0	22.61	22.67	22.55
	16QAM	1	0	22.44	22.62	22.65
		1	37	23.05	23.07	22.89
		1	74	22.85	23.11	23.11
		36	0	22.87	23.15	23.06
		36	19	21.35	21.69	21.41
		36	39	21.70	21.66	21.74
		75	0	21.37	21.67	21.58
	64QAM	1	0	21.61	21.66	21.71
		1	37	21.88	21.93	21.81
		1	74	21.78	21.82	21.70
		36	0	21.65	21.90	21.77
		36	19	20.62	20.70	20.67
		36	39	20.63	20.65	20.68
		75	0	20.59	20.63	20.41
	256QAM	1	0	20.54	20.67	20.63
		1	37	18.89	18.95	18.88
		1	74	18.89	19.10	18.89
		36	0	18.66	18.85	18.76
		36	19	18.36	18.59	18.57
		36	39	18.62	18.65	18.33
		75	0	18.42	18.60	18.59

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	23.69	23.88	23.59
		1	24	23.76	23.70	23.45
		1	49	23.47	23.60	23.36
		25	0	22.60	22.79	22.75
		25	12	22.50	22.81	22.60
		25	25	22.57	22.75	22.62
		50	0	22.57	22.76	22.73
	16QAM	1	0	22.95	23.18	22.97
		1	24	23.13	23.22	23.13
		1	49	23.04	23.19	23.20
		25	0	21.79	21.75	21.60
		25	12	21.73	21.82	21.78
		25	25	21.70	21.87	21.71
		50	0	21.47	21.66	21.66
	64QAM	1	0	22.08	22.09	22.04
		1	24	21.81	22.08	22.11
		1	49	21.97	21.97	21.78
		25	0	20.51	20.68	20.71
		25	12	20.54	20.82	20.79
		25	25	20.66	20.89	20.68
		50	0	20.77	20.76	20.68
	256QAM	1	0	18.92	19.14	18.90
		1	24	19.04	19.08	19.06
		1	49	18.99	19.07	19.00
		25	0	18.52	18.63	18.71
		25	12	18.47	18.69	18.64
		25	25	18.70	18.70	18.73
		50	0	18.54	18.71	18.50

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26815	26915	27015
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	23.77	23.85	23.69
		1	12	23.74	23.73	23.64
		1	24	23.54	23.71	23.68
		12	0	22.67	22.86	22.81
		12	6	22.57	22.79	22.75
		12	13	22.63	22.82	22.75
		25	0	22.63	22.85	22.50
	16QAM	1	0	23.13	23.19	23.17
		1	12	23.12	23.20	23.05
		1	24	22.99	23.17	23.19
		12	0	21.49	21.84	21.73
		12	6	21.77	21.80	21.74
		12	13	21.71	21.88	21.61
		25	0	21.65	21.80	21.55
	64QAM	1	0	22.03	22.20	22.08
		1	12	21.92	21.98	21.91
		1	24	21.69	21.85	21.84
		12	0	20.52	20.76	20.72
		12	6	20.71	20.79	20.57
		12	13	20.75	20.77	20.60
		25	0	20.51	20.78	20.63
	256QAM	1	0	18.92	19.06	18.99
		1	12	18.85	19.03	18.88
		1	24	18.96	19.09	18.94
		12	0	18.51	18.64	18.67
		12	6	18.42	18.76	18.46
		12	13	18.66	18.70	18.64
		25	0	18.45	18.78	18.66

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26805	26915	27025
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	23.63	23.76	23.63
		1	7	23.60	23.70	23.61
		1	14	23.58	23.68	23.47
		8	0	22.77	22.77	22.52
		8	3	22.75	22.68	22.60
		8	7	22.85	22.81	22.75
		15	0	22.58	22.76	22.80
	16QAM	1	0	23.03	23.10	23.06
		1	7	23.04	23.05	23.02
		1	14	22.92	23.11	22.95
		8	0	21.68	21.74	21.53
		8	3	21.64	21.66	21.52
		8	7	21.67	21.75	21.58
		15	0	21.66	21.69	21.70
	64QAM	1	0	21.87	22.20	22.07
		1	7	21.72	22.04	21.70
		1	14	21.55	21.84	21.78
		8	0	20.69	20.75	20.59
		8	3	20.72	20.83	20.71
		8	7	20.72	20.74	20.68
		15	0	20.83	20.84	20.45
	256QAM	1	0	18.81	19.10	19.09
		1	7	18.86	18.98	18.74
		1	14	19.08	18.99	18.78
		8	0	18.38	18.69	18.59
		8	3	18.62	18.76	18.44
		8	7	18.68	18.65	18.59
		15	0	18.54	18.70	18.65

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26797	26915	27033
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	23.63	23.64	23.62
		1	2	23.59	23.74	23.69
		1	5	23.45	23.58	23.52
		3	0	22.50	22.70	22.86
		3	1	22.40	22.74	22.52
		3	3	22.47	22.73	22.67
		6	0	22.75	22.81	22.60
	16QAM	1	0	22.88	23.25	23.07
		1	2	22.91	23.10	23.04
		1	5	23.12	23.20	22.84
		3	0	21.58	21.78	21.56
		3	1	21.59	21.73	21.46
		3	3	21.63	21.88	21.76
		6	0	21.50	21.65	21.57
	64QAM	1	0	22.06	22.09	22.03
		1	2	21.73	21.96	21.92
		1	5	21.71	21.83	21.75
		3	0	20.56	20.72	20.39
		3	1	20.76	20.74	20.59
		3	3	20.62	20.71	20.50
		6	0	20.46	20.79	20.71
	256QAM	1	0	18.95	19.08	18.94
		1	2	18.74	19.07	18.67
		1	5	18.87	19.01	18.82
		3	0	18.36	18.57	18.65
		3	1	18.48	18.59	18.61
		3	3	18.63	18.69	18.44
		6	0	18.42	18.73	18.46

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.17 LTE Band 41

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	23.25	23.38	23.21
		1	50	23.20	23.36	23.17
		1	99	22.88	23.14	23.17
		50	0	22.02	22.24	22.06
		50	25	22.29	22.24	22.12
		50	50	21.89	22.21	22.11
		100	0	21.98	22.21	22.03
	16QAM	1	0	22.32	22.42	22.41
		1	50	22.52	22.52	22.34
		1	99	22.31	22.32	22.15
		50	0	21.19	21.35	21.16
		50	25	21.20	21.25	21.22
		50	50	21.08	21.22	21.07
		100	0	21.11	21.23	20.98
	64QAM	1	0	20.91	21.16	21.13
		1	50	20.93	21.24	21.13
		1	99	20.99	20.96	20.70
		50	0	20.22	20.42	20.31
		50	25	20.41	20.36	20.17
		50	50	20.28	20.34	20.07
		100	0	20.26	20.37	20.32
	256QAM	1	0	18.01	18.20	18.03
		1	50	18.12	18.29	17.99
		1	99	17.92	18.00	18.02
		50	0	18.49	18.44	18.38
		50	25	18.46	18.42	18.28
		50	50	18.15	18.41	18.30
		100	0	18.37	18.31	18.06

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	23.13	23.29	23.11
		1	37	23.01	23.35	23.27
		1	74	22.79	23.22	23.05
		36	0	22.22	22.20	21.96
		36	19	21.98	22.15	21.96
		36	39	21.97	22.15	22.12
		75	0	22.04	22.21	21.84
	16QAM	1	0	22.38	22.52	22.40
		1	37	22.37	22.50	22.18
		1	74	22.17	22.43	22.06
		36	0	20.99	21.14	20.91
		36	19	21.17	21.18	21.08
		36	39	21.22	21.17	20.87
		75	0	21.06	21.24	20.99
	64QAM	1	0	20.98	21.23	21.02
		1	37	21.03	21.22	21.01
		1	74	20.81	21.08	21.00
		36	0	20.38	20.35	20.27
		36	19	20.32	20.36	20.00
		36	39	20.14	20.34	20.14
		75	0	20.27	20.40	20.29
	256QAM	1	0	18.00	18.25	18.09
		1	37	17.97	18.29	18.21
		1	74	18.09	18.17	17.77
		36	0	18.37	18.36	18.17
		36	19	18.10	18.31	18.20
		36	39	18.25	18.31	18.09
		75	0	18.21	18.36	18.21

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	23.11	23.36	23.20
		1	24	23.07	23.21	23.19
		1	49	22.84	23.07	22.92
		25	0	22.18	22.22	22.11
		25	12	22.05	22.18	22.08
		25	25	21.95	22.12	22.08
		50	0	22.13	22.18	21.88
	16QAM	1	0	22.42	22.38	22.24
		1	24	22.48	22.48	22.39
		1	49	22.14	22.26	22.01
		25	0	21.17	21.30	21.09
		25	12	20.93	21.22	20.85
		25	25	21.05	21.13	21.23
		50	0	21.17	21.19	20.88
	64QAM	1	0	20.96	21.10	20.86
		1	24	21.09	21.12	20.90
		1	49	20.96	21.05	20.97
		25	0	20.04	20.39	20.40
		25	12	20.17	20.37	20.07
		25	25	20.13	20.15	20.17
		50	0	20.05	20.37	20.05
	256QAM	1	0	18.18	18.11	18.04
		1	24	17.94	18.18	17.91
		1	49	18.01	17.95	17.78
		25	0	18.30	18.35	18.12
		25	12	18.46	18.29	18.27
		25	25	18.02	18.28	18.13
		50	0	18.11	18.31	18.09

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	23.15	23.32	23.14
		1	12	23.18	23.28	22.93
		1	24	22.86	23.15	22.97
		12	0	22.18	22.21	22.07
		12	6	21.95	22.12	22.23
		12	13	22.02	22.12	22.10
		25	0	21.94	22.11	21.93
	16QAM	1	0	22.31	22.37	22.36
		1	12	22.23	22.57	22.35
		1	24	22.18	22.28	22.25
		12	0	21.14	21.19	21.22
		12	6	20.92	21.20	20.93
		12	13	21.13	21.18	21.14
		25	0	20.98	21.13	21.02
	64QAM	1	0	21.07	20.98	21.13
		1	12	21.01	21.22	20.94
		1	24	20.58	20.90	21.00
		12	0	20.42	20.34	20.20
		12	6	20.19	20.34	20.32
		12	13	20.04	20.28	20.16
		25	0	20.20	20.26	20.11
	256QAM	1	0	17.94	18.14	17.98
		1	12	17.93	18.24	18.21
		1	24	17.94	18.09	17.98
		12	0	18.43	18.51	18.51
		12	6	18.29	18.47	18.26
		12	13	18.12	18.39	18.07
		25	0	18.16	18.33	17.98

EIRP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	25.51	25.64	25.47
		1	50	25.46	25.62	25.43
		1	99	25.14	25.40	25.43
		50	0	24.28	24.50	24.32
		50	25	24.55	24.50	24.38
		50	50	24.15	24.47	24.37
		100	0	24.24	24.47	24.29
	16QAM	1	0	24.58	24.68	24.67
		1	50	24.78	24.78	24.60
		1	99	24.57	24.58	24.41
		50	0	23.45	23.61	23.42
		50	25	23.46	23.51	23.48
		50	50	23.34	23.48	23.33
		100	0	23.37	23.49	23.24
	64QAM	1	0	23.17	23.42	23.39
		1	50	23.19	23.50	23.39
		1	99	23.25	23.22	22.96
		50	0	22.48	22.68	22.57
		50	25	22.67	22.62	22.43
		50	50	22.54	22.60	22.33
		100	0	22.52	22.63	22.58
	256QAM	1	0	20.27	20.46	20.29
		1	50	20.38	20.55	20.25
		1	99	20.18	20.26	20.28
		50	0	20.75	20.70	20.64
		50	25	20.72	20.68	20.54
		50	50	20.41	20.67	20.56
		100	0	20.63	20.57	20.32

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	25.39	25.55	25.37
		1	37	25.27	25.61	25.53
		1	74	25.05	25.48	25.31
		36	0	24.48	24.46	24.22
		36	19	24.24	24.41	24.22
		36	39	24.23	24.41	24.38
		75	0	24.30	24.47	24.10
	16QAM	1	0	24.64	24.78	24.66
		1	37	24.63	24.76	24.44
		1	74	24.43	24.69	24.32
		36	0	23.25	23.40	23.17
		36	19	23.43	23.44	23.34
		36	39	23.48	23.43	23.13
		75	0	23.32	23.50	23.25
	64QAM	1	0	23.24	23.49	23.28
		1	37	23.29	23.48	23.27
		1	74	23.07	23.34	23.26
		36	0	22.64	22.61	22.53
		36	19	22.58	22.62	22.26
		36	39	22.40	22.60	22.40
		75	0	22.53	22.66	22.55
	256QAM	1	0	20.26	20.51	20.35
		1	37	20.23	20.55	20.47
		1	74	20.35	20.43	20.03
		36	0	20.63	20.62	20.43
		36	19	20.36	20.57	20.46
		36	39	20.51	20.57	20.35
		75	0	20.47	20.62	20.47

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	25.37	25.62	25.46
		1	24	25.33	25.47	25.45
		1	49	25.10	25.33	25.18
		25	0	24.44	24.48	24.37
		25	12	24.31	24.44	24.34
		25	25	24.21	24.38	24.34
		50	0	24.39	24.44	24.14
	16QAM	1	0	24.68	24.64	24.50
		1	24	24.74	24.74	24.65
		1	49	24.40	24.52	24.27
		25	0	23.43	23.56	23.35
		25	12	23.19	23.48	23.11
		25	25	23.31	23.39	23.49
		50	0	23.43	23.45	23.14
	64QAM	1	0	23.22	23.36	23.12
		1	24	23.35	23.38	23.16
		1	49	23.22	23.31	23.23
		25	0	22.30	22.65	22.66
		25	12	22.43	22.63	22.33
		25	25	22.39	22.41	22.43
		50	0	22.31	22.63	22.31
	256QAM	1	0	20.44	20.37	20.30
		1	24	20.20	20.44	20.17
		1	49	20.27	20.21	20.04
		25	0	20.56	20.61	20.38
		25	12	20.72	20.55	20.53
		25	25	20.28	20.54	20.39
		50	0	20.37	20.57	20.35

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	25.41	25.58	25.40
		1	12	25.44	25.54	25.19
		1	24	25.12	25.41	25.23
		12	0	24.44	24.47	24.33
		12	6	24.21	24.38	24.49
		12	13	24.28	24.38	24.36
		25	0	24.20	24.37	24.19
	16QAM	1	0	24.57	24.63	24.62
		1	12	24.49	24.83	24.61
		1	24	24.44	24.54	24.51
		12	0	23.40	23.45	23.48
		12	6	23.18	23.46	23.19
		12	13	23.39	23.44	23.40
		25	0	23.24	23.39	23.28
	64QAM	1	0	23.33	23.24	23.39
		1	12	23.27	23.48	23.20
		1	24	22.84	23.16	23.26
		12	0	22.68	22.60	22.46
		12	6	22.45	22.60	22.58
		12	13	22.30	22.54	22.42
		25	0	22.46	22.52	22.37
	256QAM	1	0	20.20	20.40	20.24
		1	12	20.19	20.50	20.47
		1	24	20.20	20.35	20.24
		12	0	20.69	20.77	20.77
		12	6	20.55	20.73	20.52
		12	13	20.38	20.65	20.33
		25	0	20.42	20.59	20.24

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.18 LTE Band 66

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	22.87	23.24	23.00
		1	50	22.99	23.04	23.08
		1	99	22.88	23.17	23.14
		50	0	22.32	22.34	22.23
		50	25	22.38	22.45	22.47
		50	50	22.21	22.29	22.23
		100	0	22.32	22.41	22.20
	16QAM	1	0	22.47	22.51	22.35
		1	50	22.76	22.91	22.90
		1	99	22.87	22.92	22.92
		50	0	21.22	21.40	21.31
		50	25	21.21	21.42	21.45
		50	50	21.36	21.46	21.33
		100	0	21.14	21.35	21.28
	64QAM	1	0	21.36	21.55	21.51
		1	50	21.62	21.67	21.38
		1	99	21.49	21.79	21.61
		50	0	20.35	20.33	20.33
		50	25	20.20	20.40	20.23
		50	50	20.15	20.27	20.25
		100	0	20.22	20.38	20.16
	256QAM	1	0	18.40	18.47	18.39
		1	50	18.48	18.74	18.74
		1	99	18.42	18.50	18.53
		50	0	18.14	18.23	18.14
		50	25	18.05	18.22	18.22
		50	50	18.24	18.21	17.99
		100	0	18.06	18.22	18.25

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	22.77	23.21	22.92
		1	37	22.78	22.96	22.88
		1	74	22.93	23.09	23.07
		36	0	22.30	22.39	22.24
		36	19	22.23	22.32	22.31
		36	39	22.05	22.26	22.08
		75	0	22.06	22.33	22.11
	16QAM	1	0	22.34	22.47	22.49
		1	37	22.83	22.92	22.78
		1	74	22.96	22.98	22.75
		36	0	21.19	21.23	21.16
		36	19	21.25	21.45	21.24
		36	39	21.37	21.39	21.19
		75	0	21.17	21.27	21.31
	64QAM	1	0	21.51	21.40	21.42
		1	37	21.59	21.65	21.50
		1	74	21.51	21.72	21.61
		36	0	20.27	20.30	20.30
		36	19	20.07	20.40	20.22
		36	39	20.10	20.25	20.04
		75	0	20.21	20.27	20.01
	256QAM	1	0	18.35	18.35	18.21
		1	37	18.41	18.70	18.54
		1	74	18.33	18.45	18.51
		36	0	18.17	18.08	17.91
		36	19	18.11	18.23	17.95
		36	39	17.99	18.28	18.04
		75	0	18.07	18.21	18.17

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	22.78	**23.26**	23.01
		1	24	22.96	23.08	22.82
		1	49	22.84	23.08	23.08
		25	0	22.14	22.34	22.38
		25	12	22.40	22.46	22.07
		25	25	22.21	22.23	22.12
		50	0	22.12	22.35	21.99
	16QAM	1	0	22.43	22.37	22.51
		1	24	22.71	22.96	22.73
		1	49	22.78	22.93	22.69
		25	0	21.33	21.34	21.12
		25	12	21.54	21.44	21.16
		25	25	21.48	21.41	21.18
		50	0	21.11	21.32	21.27
	64QAM	1	0	21.38	21.55	21.61
		1	24	21.69	21.56	21.43
		1	49	21.69	21.73	21.55
		25	0	20.23	20.33	20.24
		25	12	20.11	20.36	20.14
		25	25	19.89	20.13	20.18
		50	0	20.07	20.38	20.11
	256QAM	1	0	18.29	18.37	18.34
		1	24	18.61	18.56	18.46
		1	49	18.34	18.43	18.29
		25	0	18.21	18.24	17.91
		25	12	18.07	18.24	17.89
		25	25	18.12	18.10	17.82
		50	0	18.20	18.22	17.93

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	22.79	23.24	22.90
		1	12	22.73	23.03	22.78
		1	24	23.08	23.13	23.12
		12	0	22.24	22.35	22.32
		12	6	22.16	22.34	22.15
		12	13	22.25	22.18	22.28
		25	0	22.09	22.36	22.21
	16QAM	1	0	22.46	22.45	22.38
		1	12	22.83	22.89	22.75
		1	24	22.79	22.79	22.87
		12	0	21.30	21.36	21.03
		12	6	21.39	21.36	21.37
		12	13	21.23	21.43	21.28
		25	0	21.20	21.34	21.06
	64QAM	1	0	21.36	21.42	21.46
		1	12	21.63	21.56	21.66
		1	24	21.60	21.66	21.52
		12	0	20.29	20.34	20.10
		12	6	20.10	20.29	20.34
		12	13	20.10	20.20	20.01
		25	0	20.02	20.37	20.27
	256QAM	1	0	18.27	18.46	18.47
		1	12	18.62	18.60	18.63
		1	24	18.18	18.44	18.42
		12	0	17.95	18.08	18.06
		12	6	18.06	18.23	18.21
		12	13	18.14	18.12	18.01
		25	0	18.03	18.13	18.14

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	22.80	23.18	22.88
		1	7	23.03	22.97	22.85
		1	14	22.98	23.18	23.19
		8	0	22.19	22.26	22.17
		8	3	22.32	22.33	22.23
		8	7	22.08	22.27	22.31
		15	0	22.11	22.37	22.47
	16QAM	1	0	22.37	22.40	22.22
		1	7	22.71	22.80	22.75
		1	14	22.67	22.86	22.55
		8	0	21.34	21.32	21.17
		8	3	21.17	21.44	21.30
		8	7	21.36	21.27	21.30
		15	0	21.21	21.23	21.11
	64QAM	1	0	21.23	21.50	21.35
		1	7	21.59	21.59	21.45
		1	14	21.51	21.72	21.41
		8	0	20.25	20.36	20.23
		8	3	20.23	20.35	20.15
		8	7	20.10	20.29	20.13
		15	0	20.25	20.33	20.10
	256QAM	1	0	18.31	18.42	18.26
		1	7	18.64	18.58	18.45
		1	14	18.25	18.40	18.34
		8	0	18.01	18.14	18.08
		8	3	17.89	18.26	17.90
		8	7	18.16	18.19	18.10
		15	0	17.97	18.33	18.00

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	22.83	23.21	22.96
		1	2	23.02	23.02	22.81
		1	5	23.00	23.06	22.92
		3	0	22.08	22.27	22.01
		3	1	22.21	22.36	22.49
		3	3	22.32	22.28	22.05
		6	0	22.23	22.32	22.35
	16QAM	1	0	22.42	22.52	22.15
		1	2	22.60	22.89	22.81
		1	5	22.64	22.94	22.67
		3	0	21.23	21.32	21.27
		3	1	21.21	21.46	21.41
		3	3	21.43	21.31	21.12
		6	0	21.06	21.23	21.04
	64QAM	1	0	21.48	21.54	21.52
		1	2	21.70	21.68	21.57
		1	5	21.49	21.66	21.39
		3	0	20.16	20.33	19.98
		3	1	19.98	20.28	20.06
		3	3	20.18	20.28	19.92
		6	0	20.00	20.28	19.93
	256QAM	1	0	18.39	18.43	18.16
		1	2	18.48	18.65	18.50
		1	5	18.41	18.53	18.29
		3	0	18.12	18.16	18.00
		3	1	18.07	18.17	18.01
		3	3	18.04	18.16	18.13
		6	0	18.21	18.23	18.05

EIRP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	24.90	25.27	25.03
		1	50	25.02	25.07	25.11
		1	99	24.91	25.20	25.17
		50	0	24.35	24.37	24.26
		50	25	24.41	24.48	24.50
		50	50	24.24	24.32	24.26
		100	0	24.35	24.44	24.23
	16QAM	1	0	24.50	24.54	24.38
		1	50	24.79	24.94	24.93
		1	99	24.90	24.95	24.95
		50	0	23.25	23.43	23.34
		50	25	23.24	23.45	23.48
		50	50	23.39	23.49	23.36
		100	0	23.17	23.38	23.31
	64QAM	1	0	23.39	23.58	23.54
		1	50	23.65	23.70	23.41
		1	99	23.52	23.82	23.64
		50	0	22.38	22.36	22.36
		50	25	22.23	22.43	22.26
		50	50	22.18	22.30	22.28
		100	0	22.25	22.41	22.19
	256QAM	1	0	20.43	20.50	20.42
		1	50	20.51	20.77	20.77
		1	99	20.45	20.53	20.56
		50	0	20.17	20.26	20.17
		50	25	20.08	20.25	20.25
		50	50	20.27	20.24	20.02
		100	0	20.09	20.25	20.28

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	24.80	25.24	24.95
		1	37	24.81	24.99	24.91
		1	74	24.96	25.12	25.10
		36	0	24.33	24.42	24.27
		36	19	24.26	24.35	24.34
		36	39	24.08	24.29	24.11
		75	0	24.09	24.36	24.14
	16QAM	1	0	24.37	24.50	24.52
		1	37	24.86	24.95	24.81
		1	74	24.99	25.01	24.78
		36	0	23.22	23.26	23.19
		36	19	23.28	23.48	23.27
		36	39	23.40	23.42	23.22
		75	0	23.20	23.30	23.34
	64QAM	1	0	23.54	23.43	23.45
		1	37	23.62	23.68	23.53
		1	74	23.54	23.75	23.64
		36	0	22.30	22.33	22.33
		36	19	22.10	22.43	22.25
		36	39	22.13	22.28	22.07
		75	0	22.24	22.30	22.04
	256QAM	1	0	20.38	20.38	20.24
		1	37	20.44	20.73	20.57
		1	74	20.36	20.48	20.54
		36	0	20.20	20.11	19.94
		36	19	20.14	20.26	19.98
		36	39	20.02	20.31	20.07
		75	0	20.10	20.24	20.20

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	24.81	**25.29**	25.04
		1	24	24.99	25.11	24.85
		1	49	24.87	25.11	25.11
		25	0	24.17	24.37	24.41
		25	12	24.43	24.49	24.10
		25	25	24.24	24.26	24.15
		50	0	24.15	24.38	24.02
	16QAM	1	0	24.46	24.40	24.54
		1	24	24.74	24.99	24.76
		1	49	24.81	24.96	24.72
		25	0	23.36	23.37	23.15
		25	12	23.57	23.47	23.19
		25	25	23.51	23.44	23.21
		50	0	23.14	23.35	23.30
	64QAM	1	0	23.41	23.58	23.64
		1	24	23.72	23.59	23.46
		1	49	23.72	23.76	23.58
		25	0	22.26	22.36	22.27
		25	12	22.14	22.39	22.17
		25	25	21.92	22.16	22.21
		50	0	22.10	22.41	22.14
	256QAM	1	0	20.32	20.40	20.37
		1	24	20.64	20.59	20.49
		1	49	20.37	20.46	20.32
		25	0	20.24	20.27	19.94
		25	12	20.10	20.27	19.92
		25	25	20.15	20.13	19.85
		50	0	20.23	20.25	19.96

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	24.82	25.27	24.93
		1	12	24.76	25.06	24.81
		1	24	25.11	25.16	25.15
		12	0	24.27	24.38	24.35
		12	6	24.19	24.37	24.18
		12	13	24.28	24.21	24.31
		25	0	24.12	24.39	24.24
	16QAM	1	0	24.49	24.48	24.41
		1	12	24.86	24.92	24.78
		1	24	24.82	24.82	24.90
		12	0	23.33	23.39	23.06
		12	6	23.42	23.39	23.40
		12	13	23.26	23.46	23.31
		25	0	23.23	23.37	23.09
	64QAM	1	0	23.39	23.45	23.49
		1	12	23.66	23.59	23.69
		1	24	23.63	23.69	23.55
		12	0	22.32	22.37	22.13
		12	6	22.13	22.32	22.37
		12	13	22.13	22.23	22.04
		25	0	22.05	22.40	22.30
	256QAM	1	0	20.30	20.49	20.50
		1	12	20.65	20.63	20.66
		1	24	20.21	20.47	20.45
		12	0	19.98	20.11	20.09
		12	6	20.09	20.26	20.24
		12	13	20.17	20.15	20.04
		25	0	20.06	20.16	20.17

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	24.83	25.21	24.91
		1	7	25.06	25.00	24.88
		1	14	25.01	25.21	25.22
		8	0	24.22	24.29	24.20
		8	3	24.35	24.36	24.26
		8	7	24.11	24.30	24.34
		15	0	24.14	24.40	24.50
	16QAM	1	0	24.40	24.43	24.25
		1	7	24.74	24.83	24.78
		1	14	24.70	24.89	24.58
		8	0	23.37	23.35	23.20
		8	3	23.20	23.47	23.33
		8	7	23.39	23.30	23.33
		15	0	23.24	23.26	23.14
	64QAM	1	0	23.26	23.53	23.38
		1	7	23.62	23.62	23.48
		1	14	23.54	23.75	23.44
		8	0	22.28	22.39	22.26
		8	3	22.26	22.38	22.18
		8	7	22.13	22.32	22.16
		15	0	22.28	22.36	22.13
	256QAM	1	0	20.34	20.45	20.29
		1	7	20.67	20.61	20.48
		1	14	20.28	20.43	20.37
		8	0	20.04	20.17	20.11
		8	3	19.92	20.29	19.93
		8	7	20.19	20.22	20.13
		15	0	20.00	20.36	20.03

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	24.86	25.24	24.99
		1	2	25.05	25.05	24.84
		1	5	25.03	25.09	24.95
		3	0	24.11	24.30	24.04
		3	1	24.24	24.39	24.52
		3	3	24.35	24.31	24.08
		6	0	24.26	24.35	24.38
	16QAM	1	0	24.45	24.55	24.18
		1	2	24.63	24.92	24.84
		1	5	24.67	24.97	24.70
		3	0	23.26	23.35	23.30
		3	1	23.24	23.49	23.44
		3	3	23.46	23.34	23.15
		6	0	23.09	23.26	23.07
	64QAM	1	0	23.51	23.57	23.55
		1	2	23.73	23.71	23.60
		1	5	23.52	23.69	23.42
		3	0	22.19	22.36	22.01
		3	1	22.01	22.31	22.09
		3	3	22.21	22.31	21.95
		6	0	22.03	22.31	21.96
	256QAM	1	0	20.42	20.46	20.19
		1	2	20.51	20.68	20.53
		1	5	20.44	20.56	20.32
		3	0	20.15	20.19	20.03
		3	1	20.10	20.20	20.04
		3	3	20.07	20.19	20.16
		6	0	20.24	20.26	20.08

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.19 LTE Band 71

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133222	133297	133372
		Frequency (MHz)		673	680.5	688
20M	QPSK	1	0	23.51	**23.55**	23.53
		1	50	23.20	23.41	23.49
		1	99	23.09	23.29	23.05
		50	0	22.19	22.45	22.20
		50	25	22.36	22.38	22.45
		50	50	22.36	22.38	22.42
		100	0	22.16	22.37	22.16
	16QAM	1	0	22.83	22.79	22.64
		1	50	22.87	22.81	22.90
		1	99	22.60	22.63	22.38
		50	0	21.11	21.41	21.23
		50	25	21.44	21.42	21.31
		50	50	21.19	21.31	21.37
		100	0	21.14	21.40	21.36
	64QAM	1	0	21.66	21.77	21.56
		1	50	21.52	21.53	21.38
		1	99	21.49	21.60	21.58
		50	0	20.30	20.35	20.23
		50	25	20.29	20.35	20.19
		50	50	20.31	20.35	20.25
		100	0	20.15	20.31	20.33
	256QAM	1	0	18.66	18.89	18.72
		1	50	18.89	19.11	18.90
		1	99	18.59	18.52	18.38
		50	0	18.33	18.55	18.34
		50	25	18.15	18.35	18.16
		50	50	18.44	18.45	18.33
		100	0	18.17	18.46	18.28

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133197	133297	133397
		Frequency (MHz)		670.5	680.5	690.5
15M	QPSK	1	0	23.51	23.46	23.45
		1	37	23.27	23.39	23.26
		1	74	23.29	23.17	23.33
		36	0	22.13	22.42	22.23
		36	19	22.14	22.30	22.15
		36	39	22.10	22.40	21.96
		75	0	22.19	22.22	22.25
	16QAM	1	0	22.64	22.81	22.49
		1	37	22.47	22.75	22.70
		1	74	22.35	22.55	22.49
		36	0	21.15	21.35	21.23
		36	19	21.40	21.38	21.28
		36	39	21.14	21.37	21.18
		75	0	21.17	21.23	21.33
	64QAM	1	0	21.53	21.71	21.73
		1	37	21.35	21.42	21.37
		1	74	21.37	21.58	21.38
		36	0	20.29	20.33	20.06
		36	19	20.21	20.29	20.13
		36	39	20.06	20.29	20.04
		75	0	20.18	20.32	20.17
	256QAM	1	0	18.56	18.90	18.77
		1	37	18.89	19.10	18.91
		1	74	18.38	18.58	18.40
		36	0	18.21	18.52	18.40
		36	19	18.01	18.35	18.21
		36	39	18.33	18.39	18.34
		75	0	18.19	18.33	18.22

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133172	133297	133422
		Frequency (MHz)		668	680.5	693
10M	QPSK	1	0	23.36	23.40	23.31
		1	24	23.29	23.30	23.29
		1	49	23.26	23.20	23.24
		25	0	22.31	22.41	22.30
		25	12	22.35	22.50	22.27
		25	25	22.03	22.29	22.13
		50	0	22.17	22.27	22.28
	16QAM	1	0	22.90	22.83	22.54
		1	24	22.67	22.70	22.63
		1	49	22.53	22.59	22.49
		25	0	21.07	21.35	21.31
		25	12	21.47	21.43	21.32
		25	25	21.14	21.30	21.05
		50	0	21.12	21.23	21.10
	64QAM	1	0	21.46	21.65	21.51
		1	24	21.39	21.49	21.36
		1	49	21.33	21.56	21.39
		25	0	20.08	20.21	20.16
		25	12	20.26	20.39	20.18
		25	25	20.02	20.27	20.16
		50	0	20.22	20.26	20.27
	256QAM	1	0	18.82	18.93	18.84
		1	24	18.79	19.09	18.97
		1	49	18.43	18.52	18.36
		25	0	18.30	18.57	18.35
		25	12	18.13	18.24	18.34
		25	25	18.41	18.44	18.18
		50	0	18.24	18.44	18.30

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133147	133297	133447
		Frequency (MHz)		665.5	680.5	695.5
5M	QPSK	1	0	23.34	23.42	23.39
		1	12	23.23	23.49	23.38
		1	24	23.29	23.17	23.13
		12	0	22.31	22.35	22.18
		12	6	22.34	22.32	22.17
		12	13	22.04	22.32	22.26
		25	0	22.33	22.32	22.16
	16QAM	1	0	22.45	22.83	22.79
		1	12	22.63	22.92	22.60
		1	24	22.47	22.52	22.48
		12	0	21.33	21.31	21.17
		12	6	21.23	21.46	21.40
		12	13	21.08	21.43	21.31
		25	0	21.24	21.35	21.28
	64QAM	1	0	21.45	21.71	21.39
		1	12	21.33	21.51	21.34
		1	24	21.43	21.55	21.30
		12	0	20.05	20.22	20.25
		12	6	20.24	20.25	20.07
		12	13	20.01	20.17	20.30
		25	0	20.17	20.32	20.16
	256QAM	1	0	18.84	18.86	18.54
		1	12	18.98	19.11	18.95
		1	24	18.22	18.54	18.40
		12	0	18.48	18.46	18.31
		12	6	18.11	18.35	18.36
		12	13	18.26	18.51	18.34
		25	0	18.25	18.28	18.21

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133222	133297	133372
		Frequency (MHz)		673	680.5	688
20M	QPSK	1	0	22.99	**23.03**	23.01
		1	50	22.68	22.89	22.97
		1	99	22.57	22.77	22.53
		50	0	21.67	21.93	21.68
		50	25	21.84	21.86	21.93
		50	50	21.84	21.86	21.90
		100	0	21.64	21.85	21.64
	16QAM	1	0	22.31	22.27	22.12
		1	50	22.35	22.29	22.38
		1	99	22.08	22.11	21.86
		50	0	20.59	20.89	20.71
		50	25	20.92	20.90	20.79
		50	50	20.67	20.79	20.85
		100	0	20.62	20.88	20.84
	64QAM	1	0	21.14	21.25	21.04
		1	50	21.00	21.01	20.86
		1	99	20.97	21.08	21.06
		50	0	19.78	19.83	19.71
		50	25	19.77	19.83	19.67
		50	50	19.79	19.83	19.73
		100	0	19.63	19.79	19.81
	256QAM	1	0	18.14	18.37	18.20
		1	50	18.37	18.59	18.38
		1	99	18.07	18.00	17.86
		50	0	17.81	18.03	17.82
		50	25	17.63	17.83	17.64
		50	50	17.92	17.93	17.81
		100	0	17.65	17.94	17.76

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133197	133297	133397
		Frequency (MHz)		670.5	680.5	690.5
15M	QPSK	1	0	22.99	22.94	22.93
		1	37	22.75	22.87	22.74
		1	74	22.77	22.65	22.81
		36	0	21.61	21.90	21.71
		36	19	21.62	21.78	21.63
		36	39	21.58	21.88	21.44
		75	0	21.67	21.70	21.73
	16QAM	1	0	22.12	22.29	21.97
		1	37	21.95	22.23	22.18
		1	74	21.83	22.03	21.97
		36	0	20.63	20.83	20.71
		36	19	20.88	20.86	20.76
		36	39	20.62	20.85	20.66
		75	0	20.65	20.71	20.81
	64QAM	1	0	21.01	21.19	21.21
		1	37	20.83	20.90	20.85
		1	74	20.85	21.06	20.86
		36	0	19.77	19.81	19.54
		36	19	19.69	19.77	19.61
		36	39	19.54	19.77	19.52
		75	0	19.66	19.80	19.65
	256QAM	1	0	18.04	18.38	18.25
		1	37	18.37	18.58	18.39
		1	74	17.86	18.06	17.88
		36	0	17.69	18.00	17.88
		36	19	17.49	17.83	17.69
		36	39	17.81	17.87	17.82
		75	0	17.67	17.81	17.70

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133172	133297	133422
		Frequency (MHz)		668	680.5	693
10M	QPSK	1	0	22.84	22.88	22.79
		1	24	22.77	22.78	22.77
		1	49	22.74	22.68	22.72
		25	0	21.79	21.89	21.78
		25	12	21.83	21.98	21.75
		25	25	21.51	21.77	21.61
		50	0	21.65	21.75	21.76
	16QAM	1	0	22.38	22.31	22.02
		1	24	22.15	22.18	22.11
		1	49	22.01	22.07	21.97
		25	0	20.55	20.83	20.79
		25	12	20.95	20.91	20.80
		25	25	20.62	20.78	20.53
		50	0	20.60	20.71	20.58
	64QAM	1	0	20.94	21.13	20.99
		1	24	20.87	20.97	20.84
		1	49	20.81	21.04	20.87
		25	0	19.56	19.69	19.64
		25	12	19.74	19.87	19.66
		25	25	19.50	19.75	19.64
		50	0	19.70	19.74	19.75
	256QAM	1	0	18.30	18.41	18.32
		1	24	18.27	18.57	18.45
		1	49	17.91	18.00	17.84
		25	0	17.78	18.05	17.83
		25	12	17.61	17.72	17.82
		25	25	17.89	17.92	17.66
		50	0	17.72	17.92	17.78

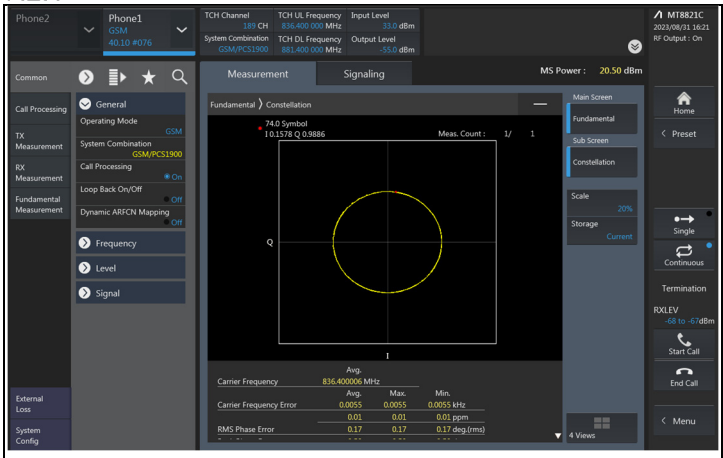
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133147	133297	133447
		Frequency (MHz)		665.5	680.5	695.5
5M	QPSK	1	0	22.82	22.90	22.87
		1	12	22.71	22.97	22.86
		1	24	22.77	22.65	22.61
		12	0	21.79	21.83	21.66
		12	6	21.82	21.80	21.65
		12	13	21.52	21.80	21.74
		25	0	21.81	21.80	21.64
	16QAM	1	0	21.93	22.31	22.27
		1	12	22.11	22.40	22.08
		1	24	21.95	22.00	21.96
		12	0	20.81	20.79	20.65
		12	6	20.71	20.94	20.88
		12	13	20.56	20.91	20.79
		25	0	20.72	20.83	20.76
	64QAM	1	0	20.93	21.19	20.87
		1	12	20.81	20.99	20.82
		1	24	20.91	21.03	20.78
		12	0	19.53	19.70	19.73
		12	6	19.72	19.73	19.55
		12	13	19.49	19.65	19.78
		25	0	19.65	19.80	19.64
	256QAM	1	0	18.32	18.34	18.02
		1	12	18.46	18.59	18.43
		1	24	17.70	18.02	17.88
		12	0	17.96	17.94	17.79
		12	6	17.59	17.83	17.84
		12	13	17.74	17.99	17.82
		25	0	17.73	17.76	17.69

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

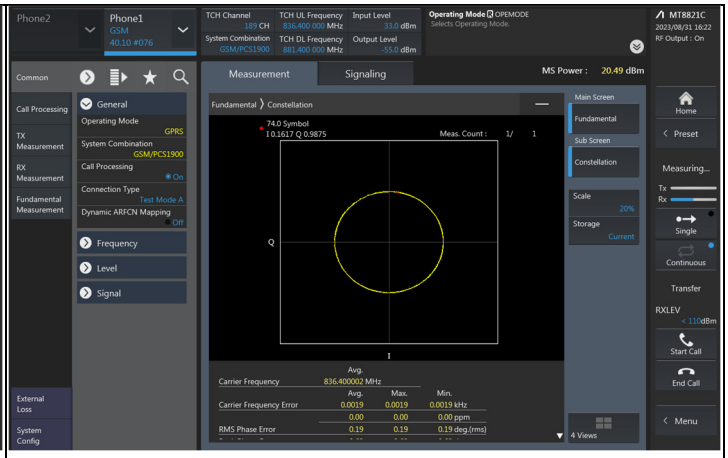
7.2 Modulation Characteristics

Input Power:	4.7 Vdc	Environmental Conditions:	22°C, 73% RH	Tested By:	Willy Cheng

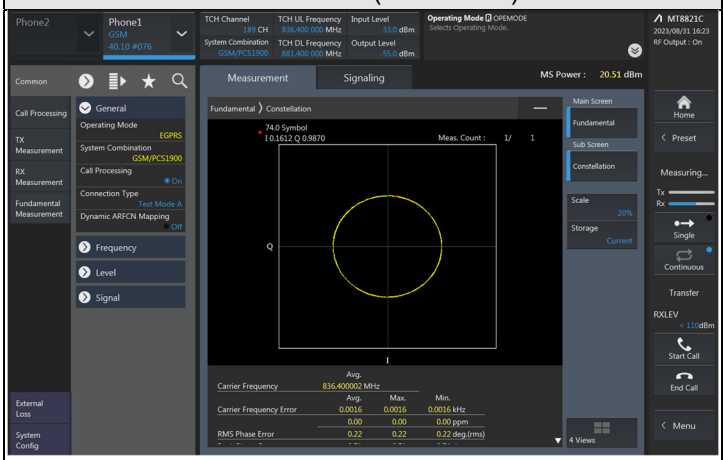
7.2.1 GSM 850



GSM CH 189 (836.4 MHz)

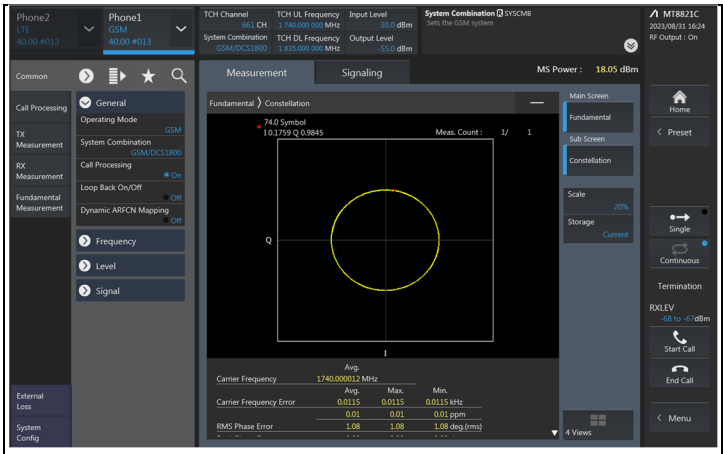


GPRS CH 189 (836.4 MHz)

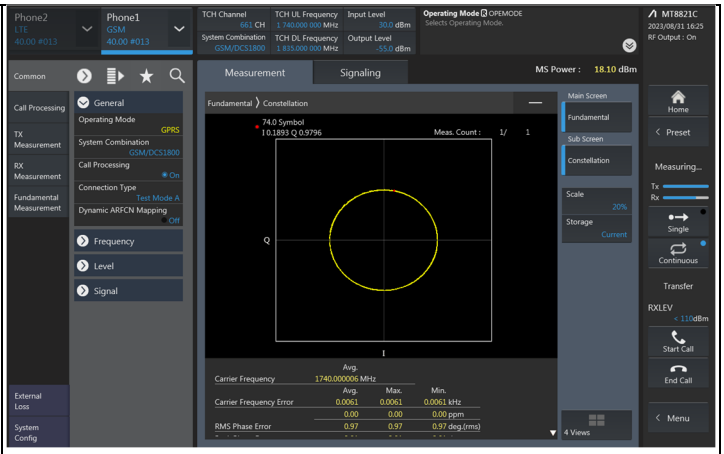


EDGE CH 189 (836.4 MHz)

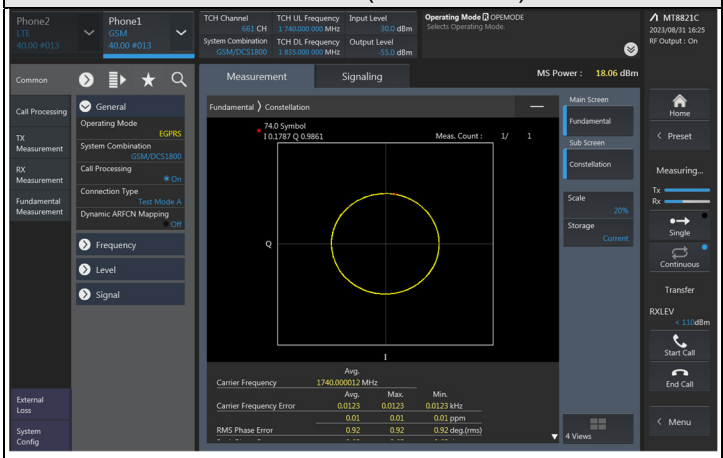
7.2.2 GSM 1900



GSM CH 661 (1880.0 MHz)

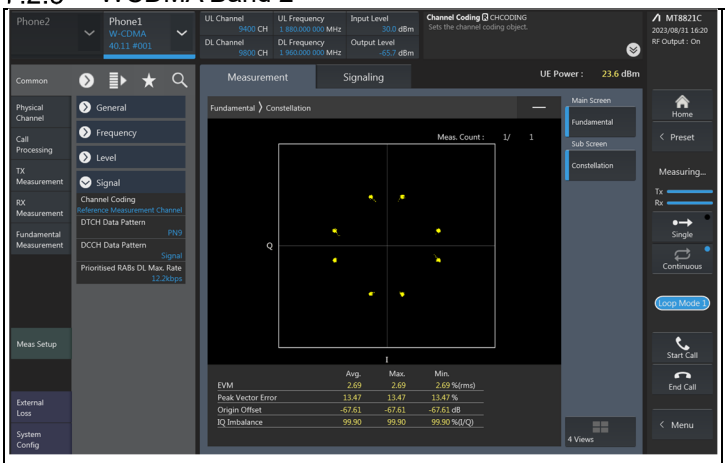
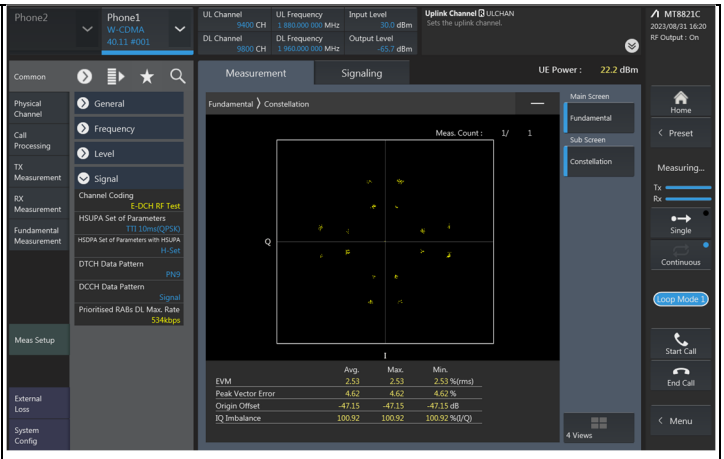
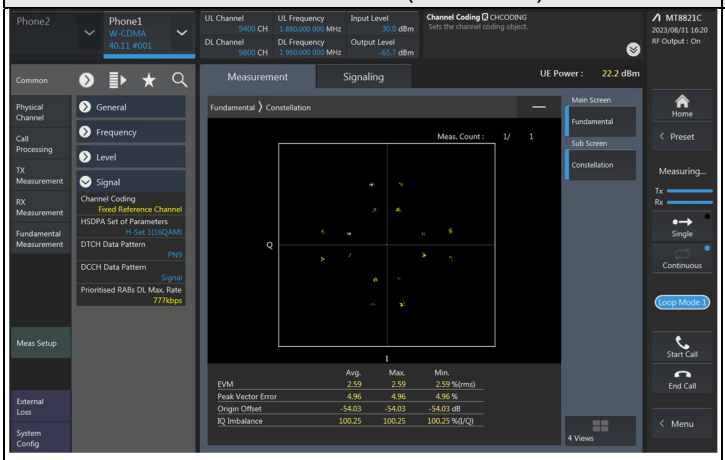


GPRS CH 661 (1880.0 MHz)

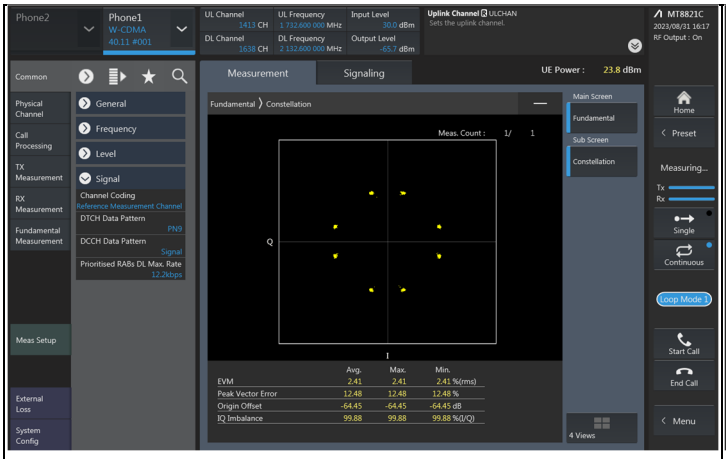


EDGE CH 661 (1880.0 MHz)

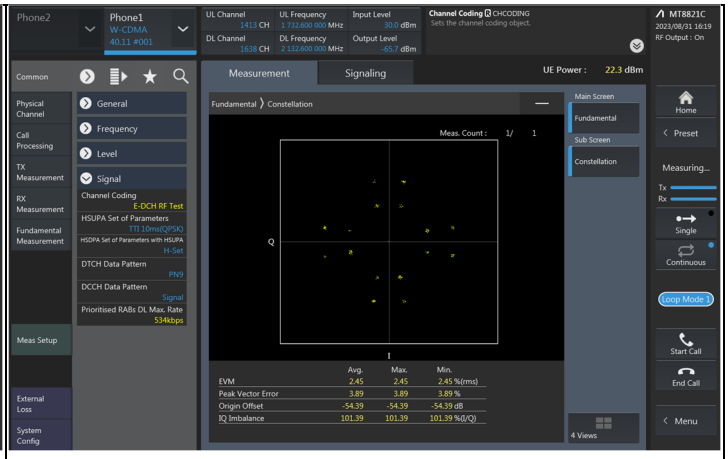
7.2.3 WCDMA Band 2

	
WCDMA CH 9400 (1880 MHz)	HSUPA CH 9400 (1880 MHz)
	
HSDPA CH 9400 (1880 MHz)	

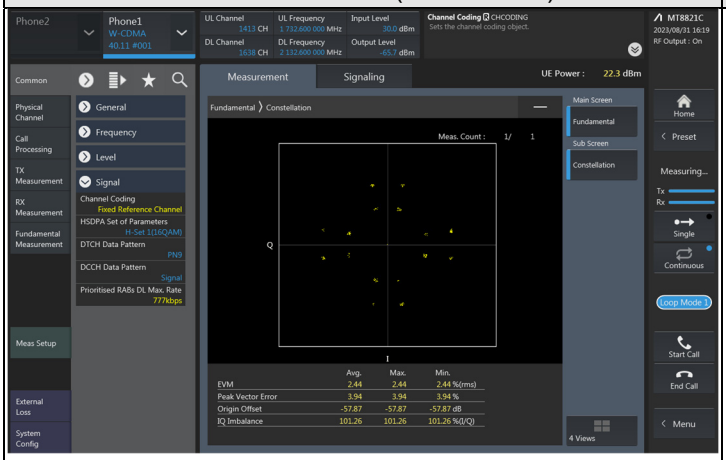
7.2.4 WCDMA Band 4



WCDMA CH 1413 (1732.6 MHz)

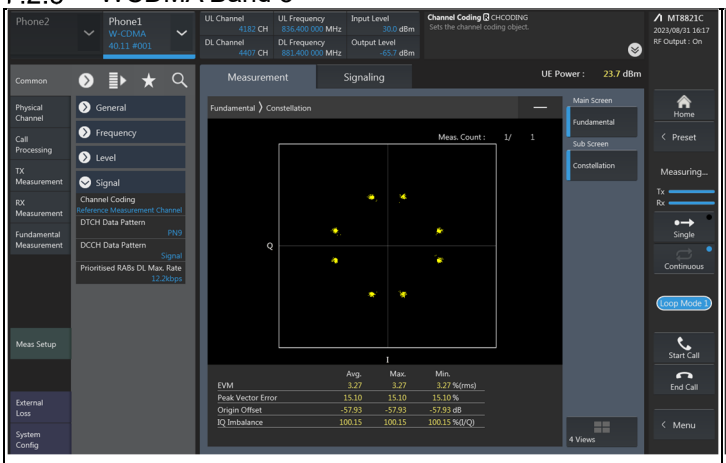
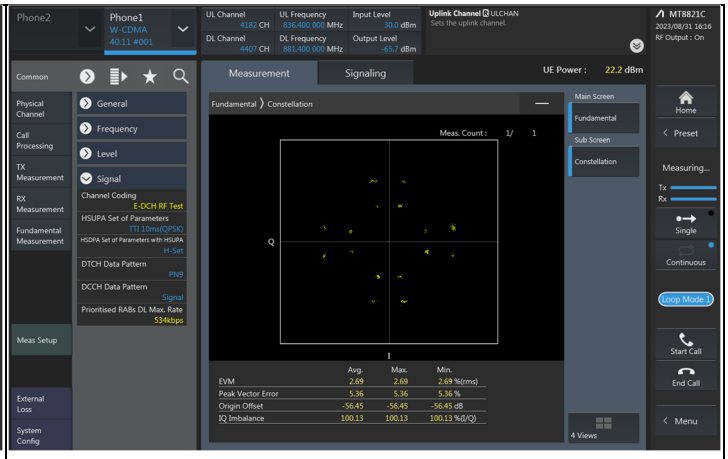
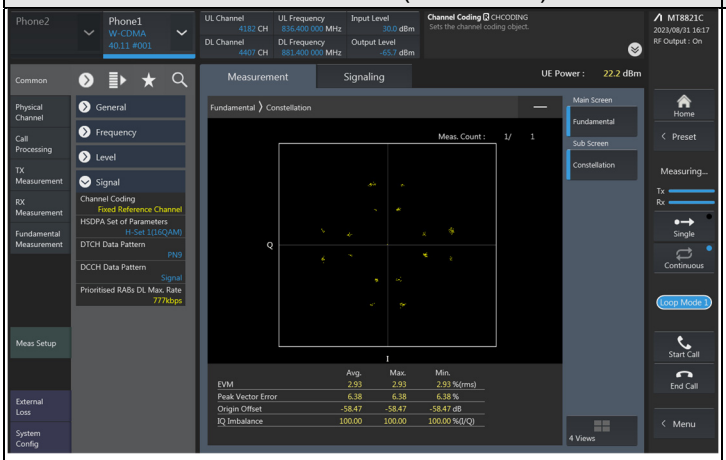


HSUPA CH 1413 (1732.6 MHz)



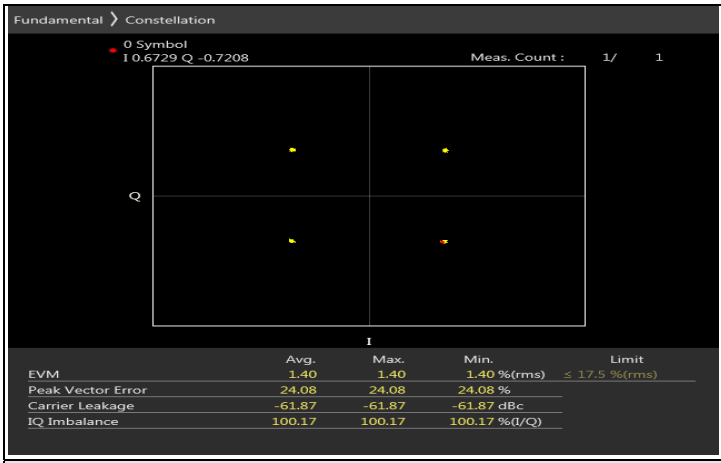
HSDPA CH 1413 (1732.6 MHz)

7.2.5 WCDMA Band 5

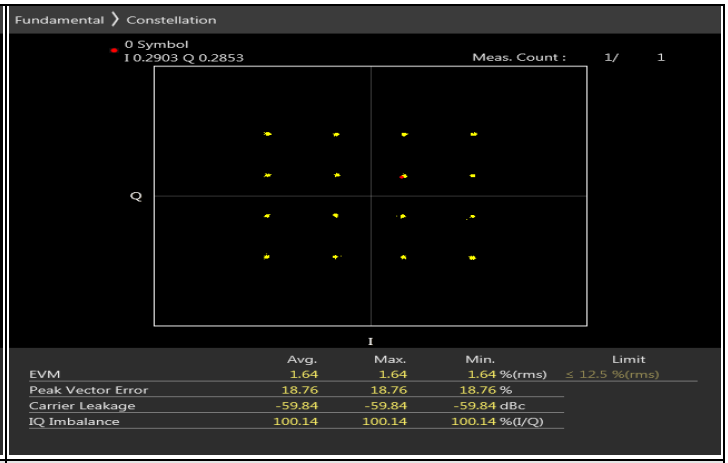
	
WCDMA CH 4182 (836.4 MHz)	HSUPA CH 4182 (836.4 MHz)
	
HSDPA CH 4182 (836.4 MHz)	

7.2.6 LTE Band 2

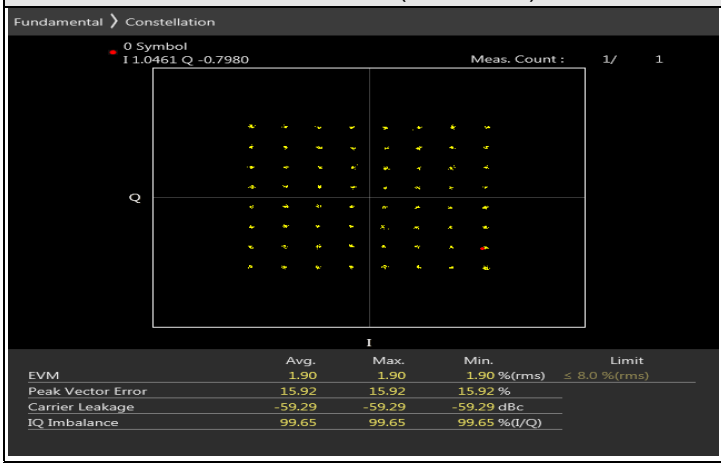
LTE Band 2, Channel Bandwidth: 20 MHz



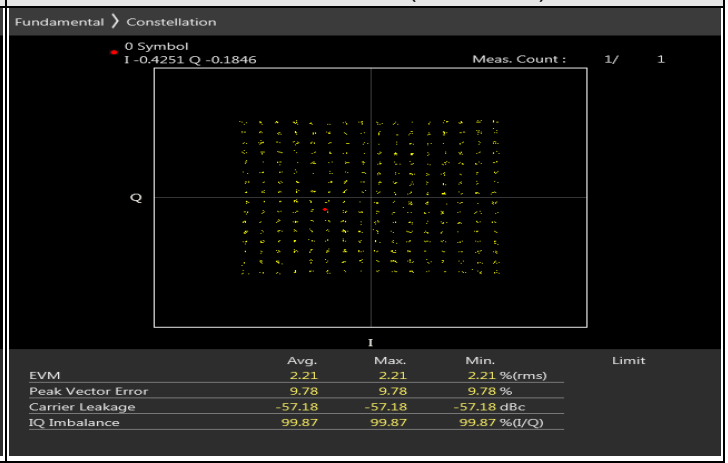
QPSK CH 18900 (1880 MHz)



16QAM CH 18900 (1880 MHz)



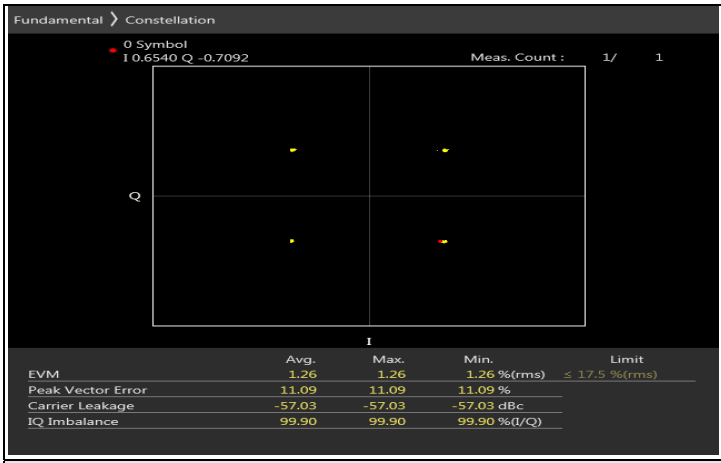
64QAM CH 18900 (1880 MHz)



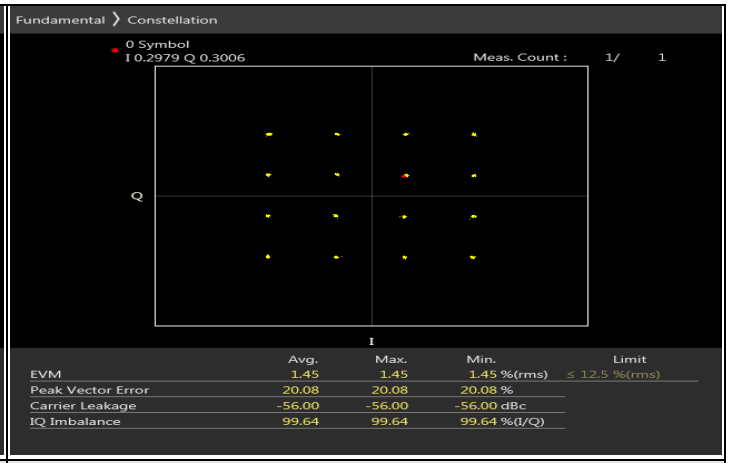
256QAM CH 18900 (1880 MHz)

7.2.7 LTE Band 4

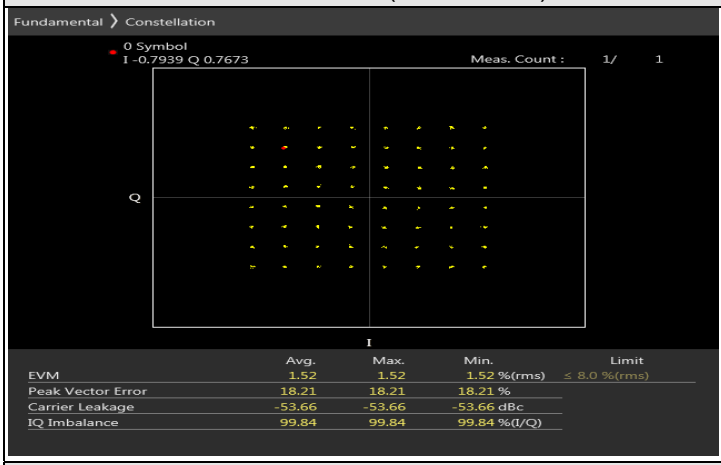
LTE Band 4, Channel Bandwidth: 20 MHz



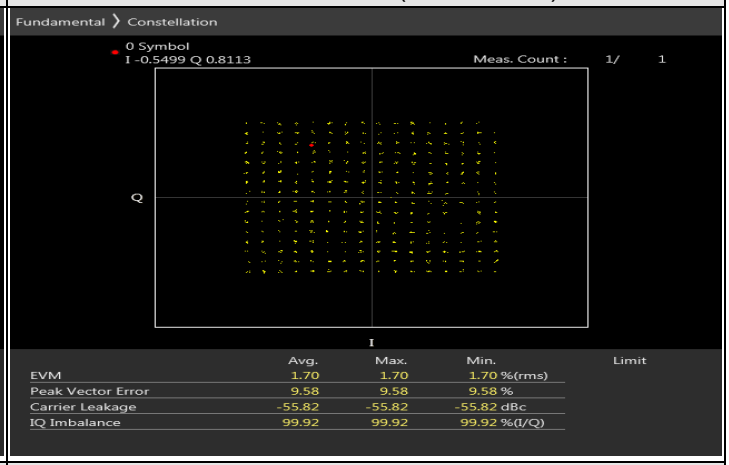
QPSK CH 20175 (1732.5 MHz)



16QAM CH 20175 (1732.5 MHz)



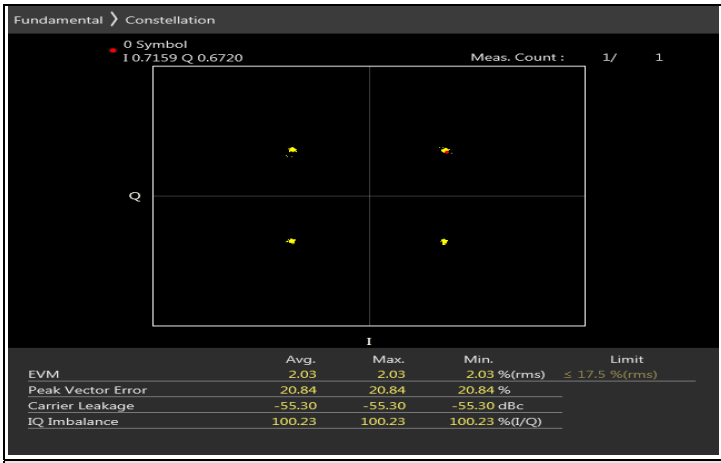
64QAM CH 20175 (1732.5 MHz)



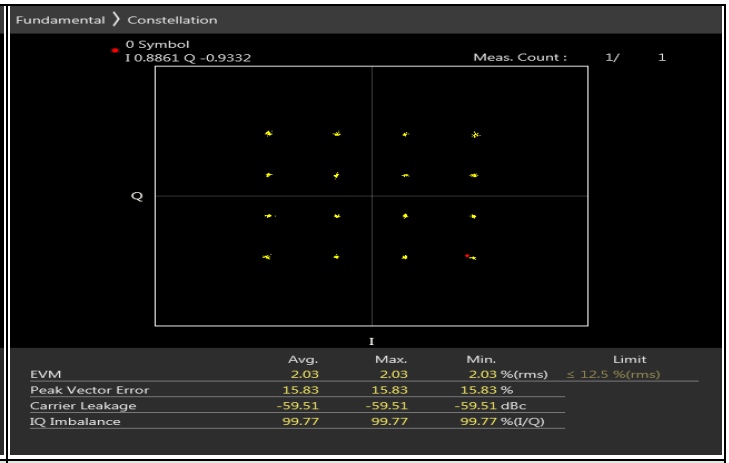
256QAM CH 20175 (1732.5 MHz)

7.2.8 LTE Band 5

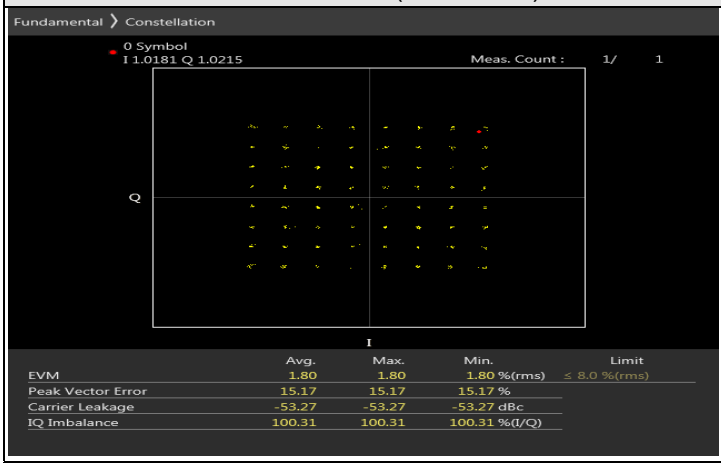
LTE Band 5, Channel Bandwidth: 10 MHz



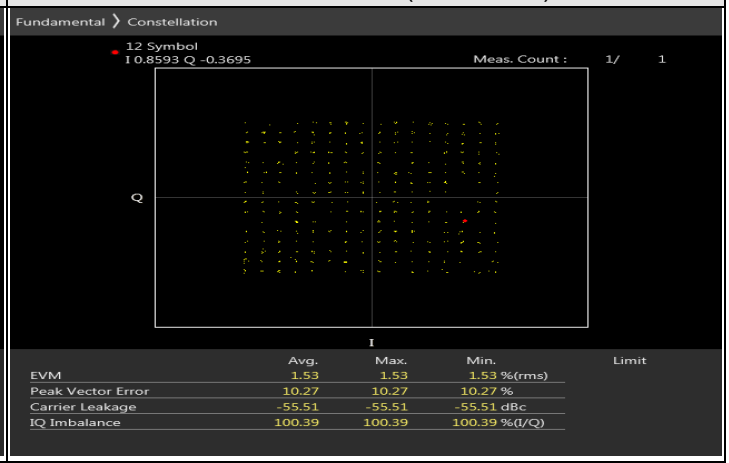
QPSK CH 20525 (836.5 MHz)



16QAM CH 20525 (836.5 MHz)



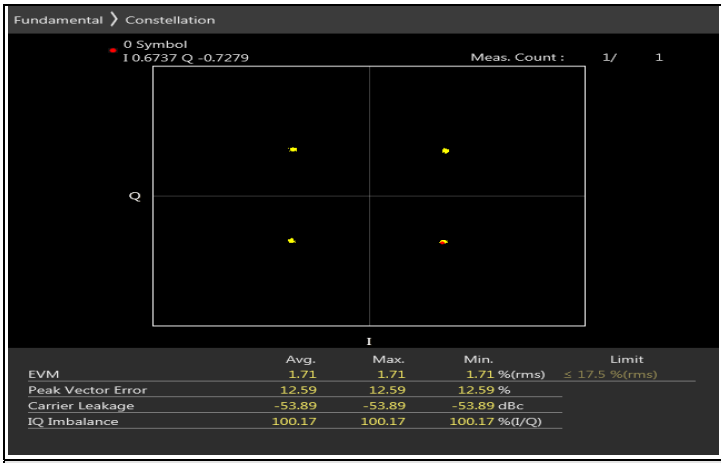
64QAM CH 20525 (836.5 MHz)



256QAM CH 20525 (836.5 MHz)

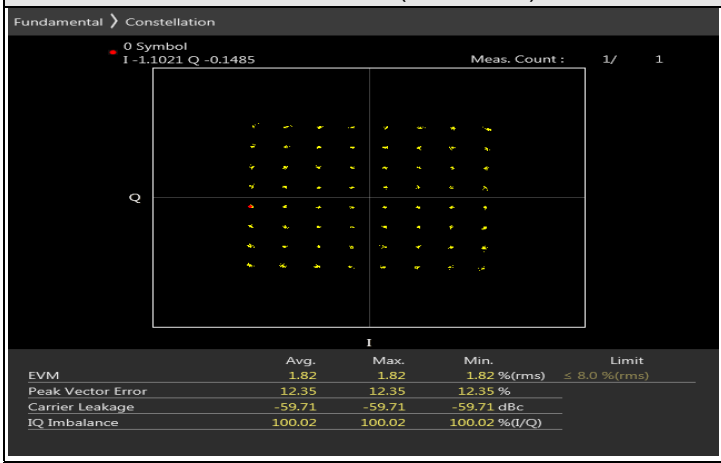
7.2.9 LTE Band 7

LTE Band 7, Channel Bandwidth: 20 MHz

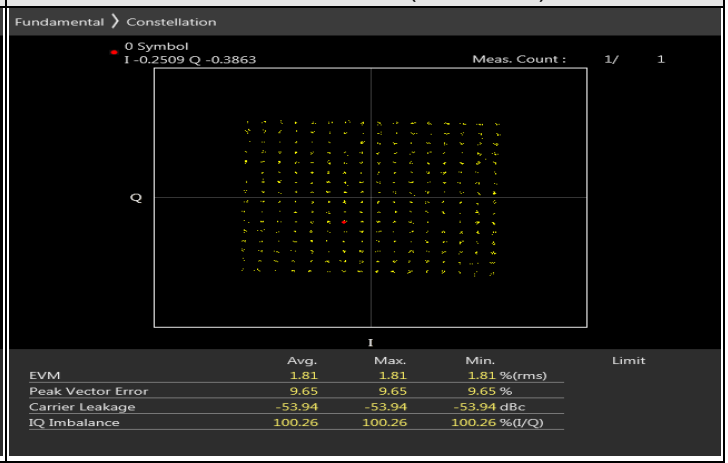


QPSK CH 21100 (2535 MHz)

16QAM CH 21100 (2535 MHz)



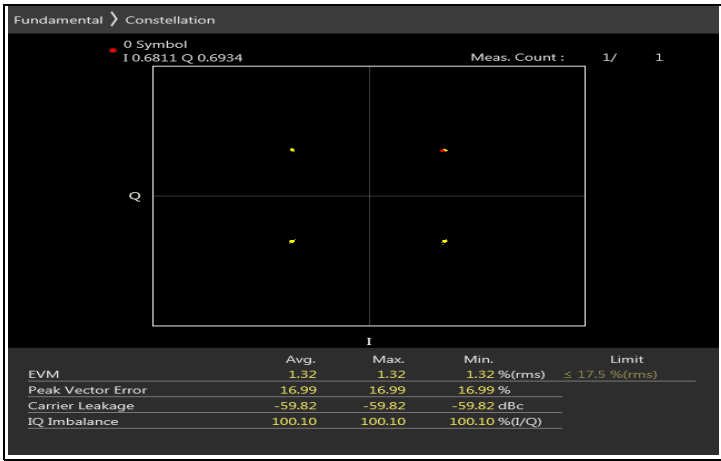
64QAM CH 21100 (2535 MHz)



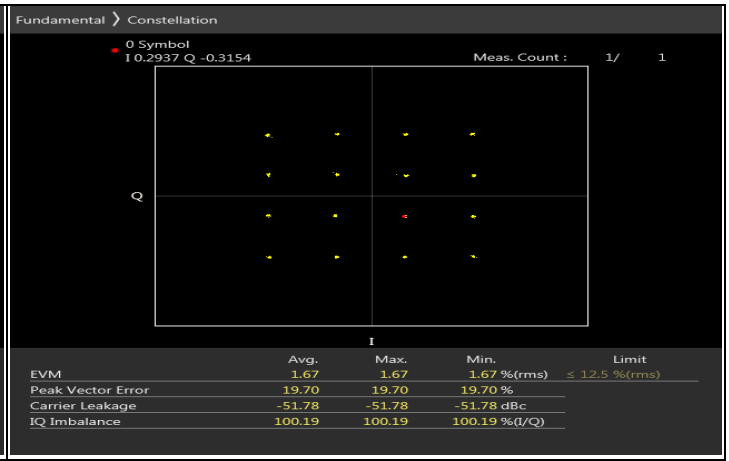
256QAM CH 21100 (2535 MHz)

7.2.10 LTE Band 12

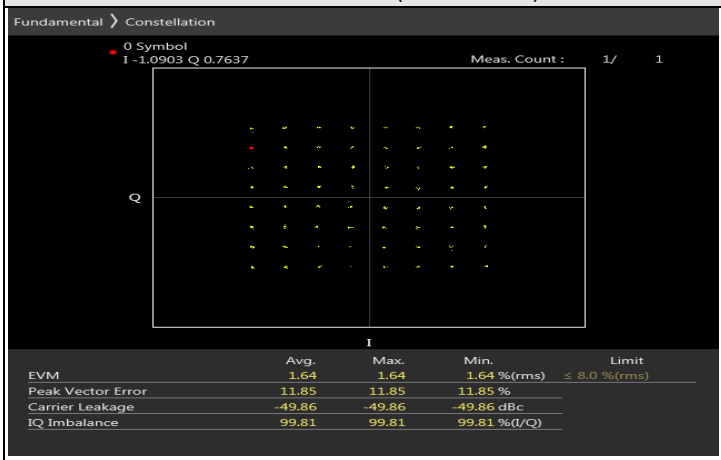
LTE Band 12, Channel Bandwidth: 10 MHz



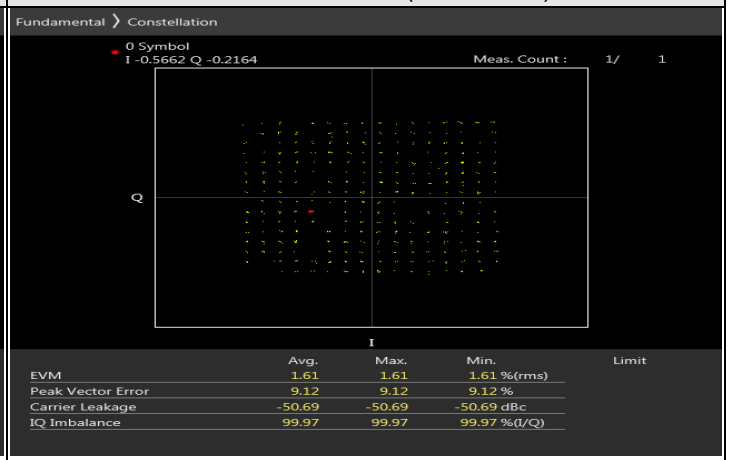
QPSK CH 23095 (707.5 MHz)



16QAM CH 23095 (707.5 MHz)



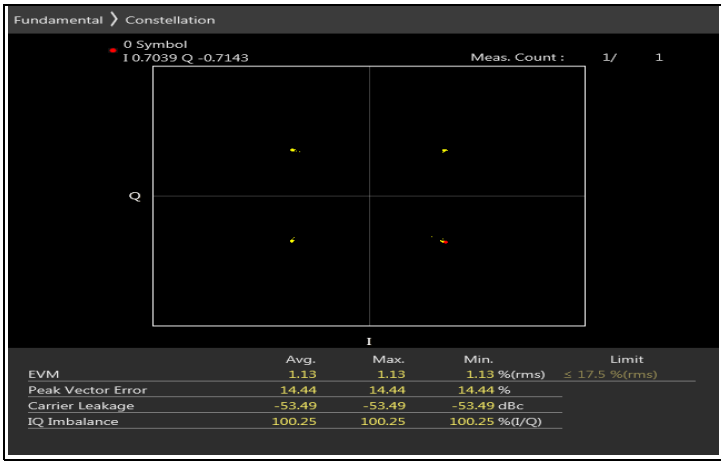
64QAM CH 23095 (707.5 MHz)



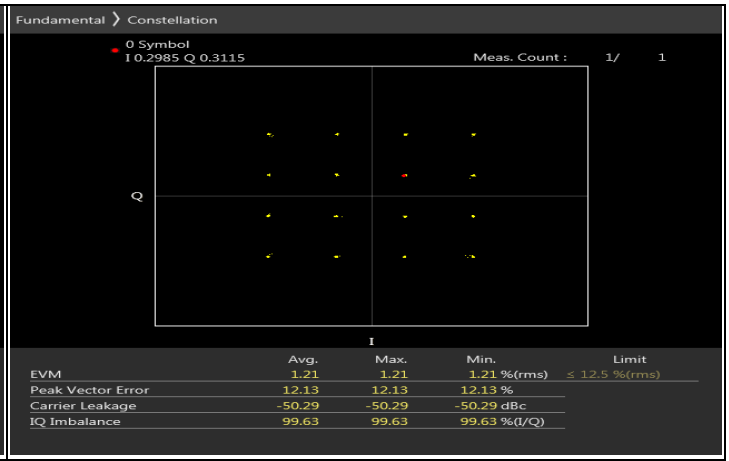
256QAM CH 23095 (707.5 MHz)

7.2.11 LTE Band 13

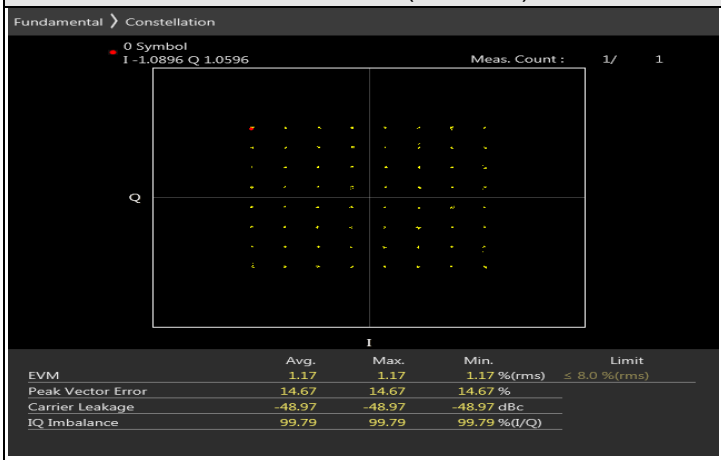
LTE Band 13, Channel Bandwidth: 10 MHz



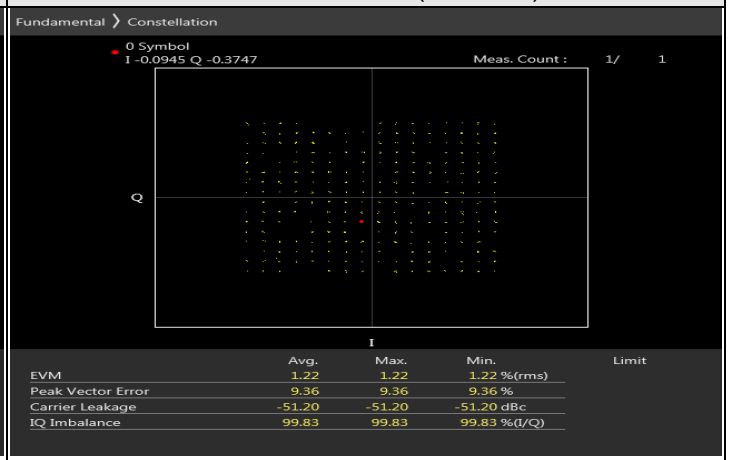
QPSK CH 23230 (782 MHz)



16QAM CH 23230 (782 MHz)



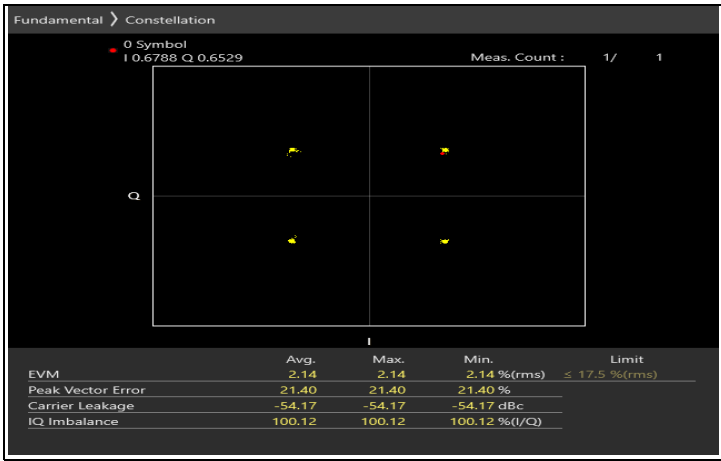
64QAM CH 23230 (782 MHz)



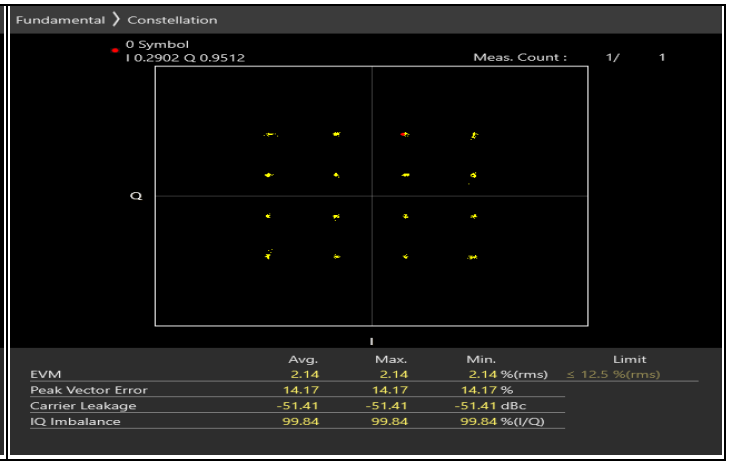
256QAM CH 23230 (782 MHz)

7.2.12 LTE Band 14

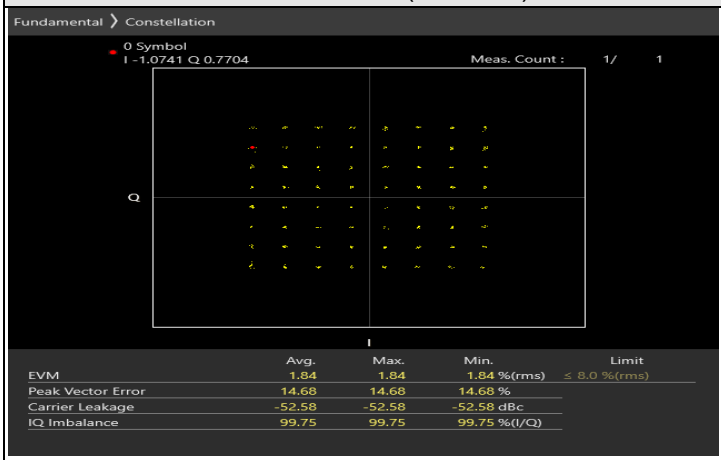
LTE Band 14, Channel Bandwidth: 10 MHz



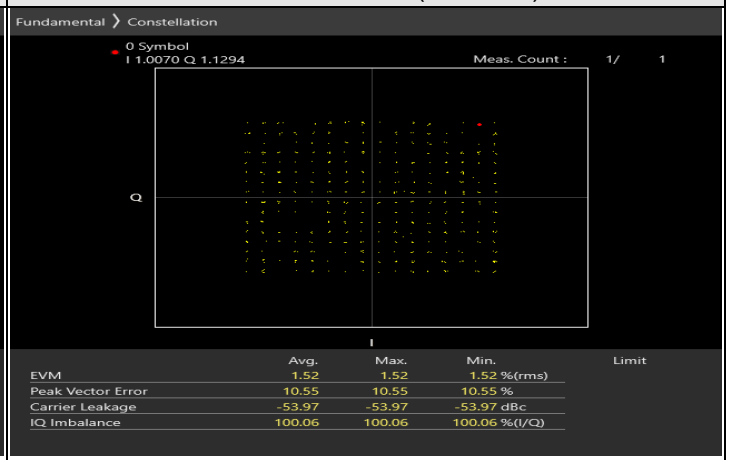
QPSK CH 23330 (793 MHz)



16QAM CH 23330 (793 MHz)



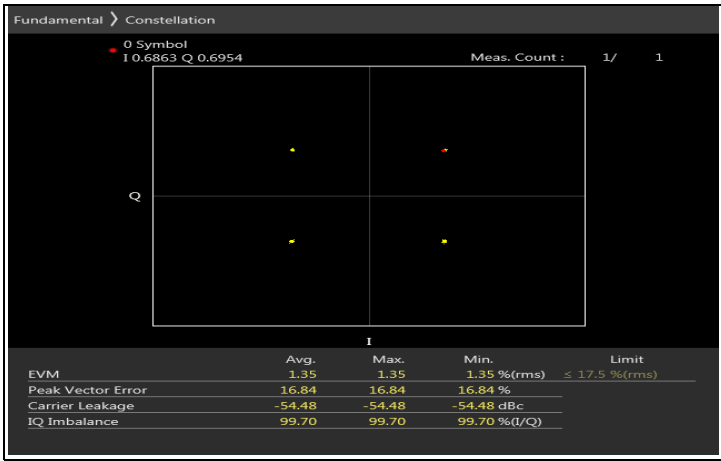
64QAM CH 23330 (793 MHz)



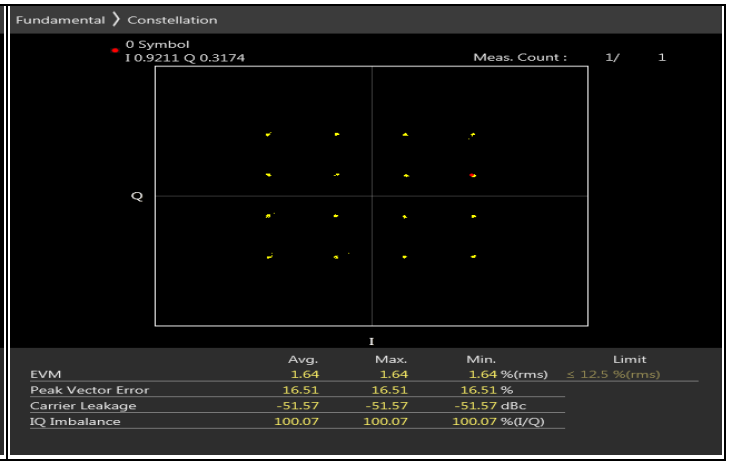
256QAM CH 23330 (793 MHz)

7.2.13 LTE Band 17

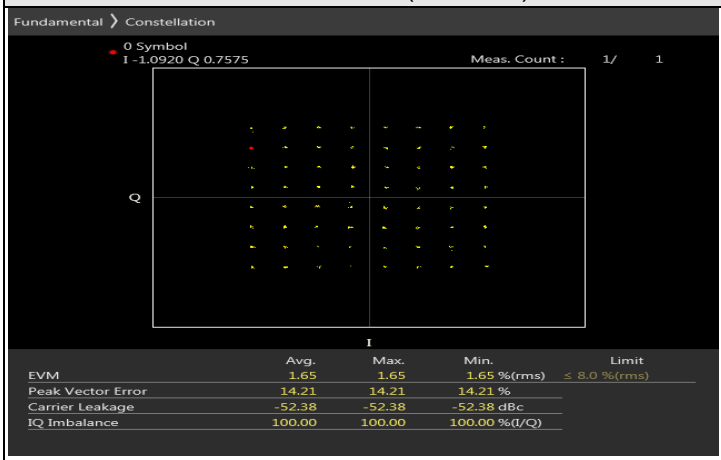
LTE Band 17, Channel Bandwidth: 10 MHz



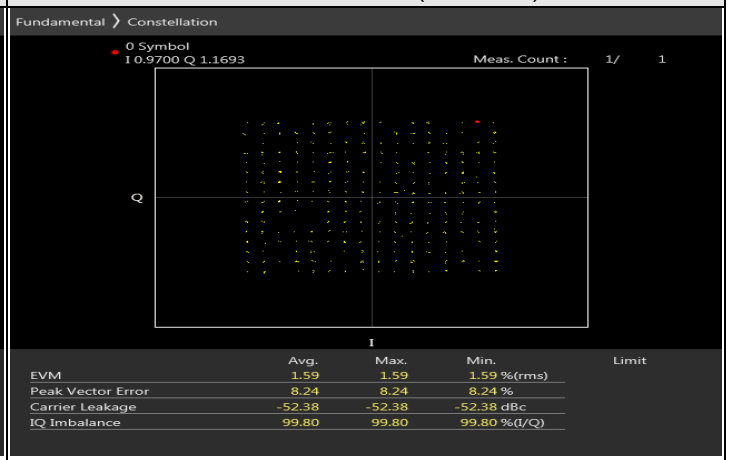
QPSK CH 23790 (710 MHz)



16QAM CH 23790 (710 MHz)



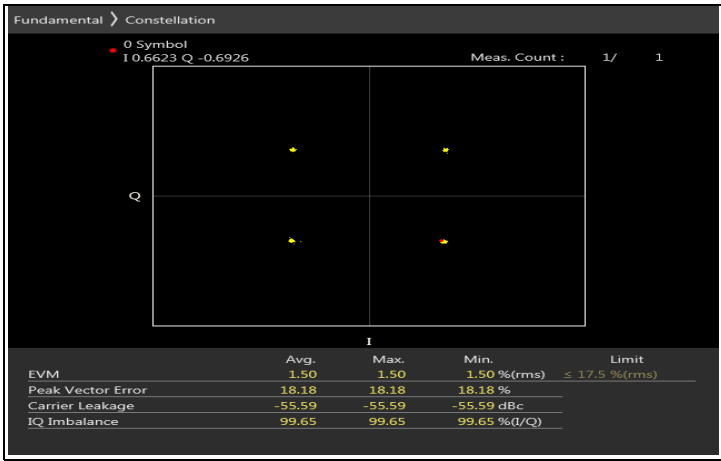
64QAM CH 23790 (710 MHz)



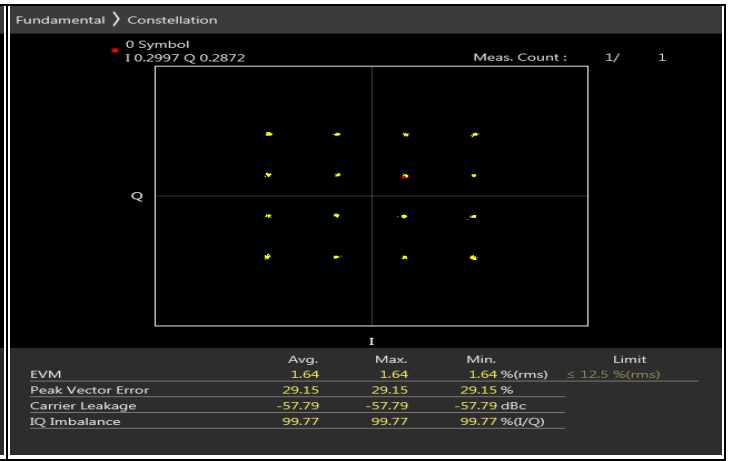
256QAM CH 23790 (710 MHz)

7.2.14 LTE Band 25

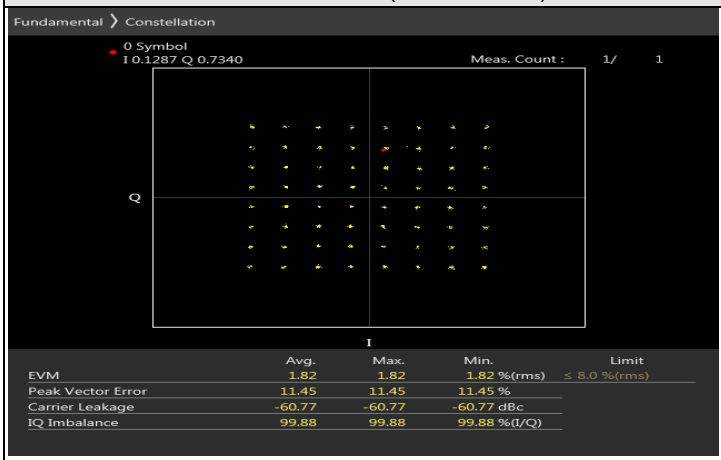
LTE Band 25, Channel Bandwidth: 20 MHz



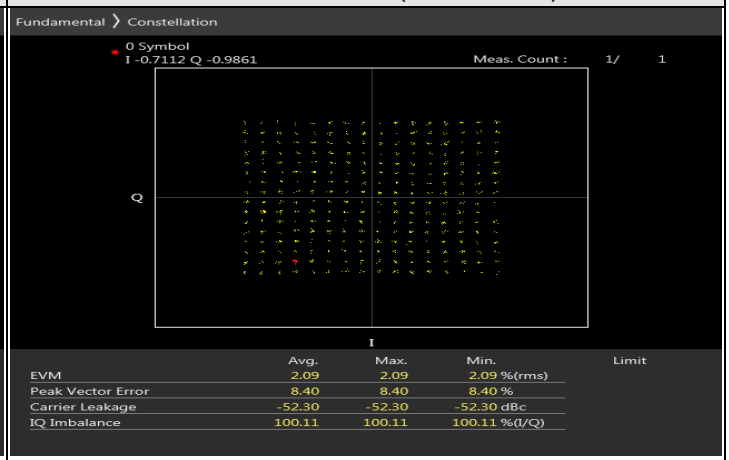
QPSK CH 26365 (1882.5 MHz)



16QAM CH 26365 (1882.5 MHz)



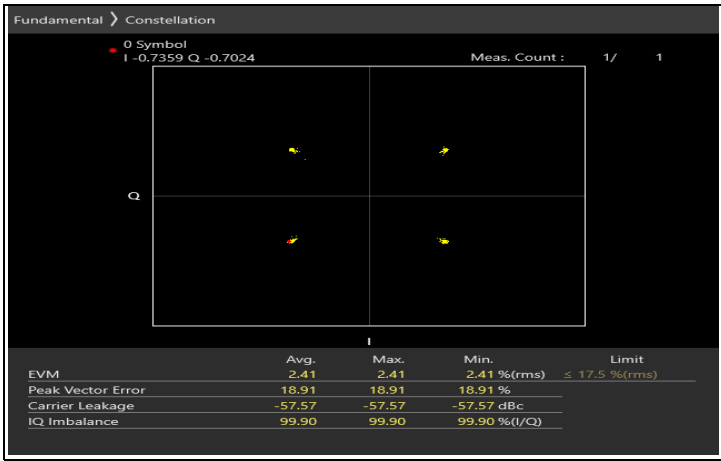
64QAM CH 26365 (1882.5 MHz)



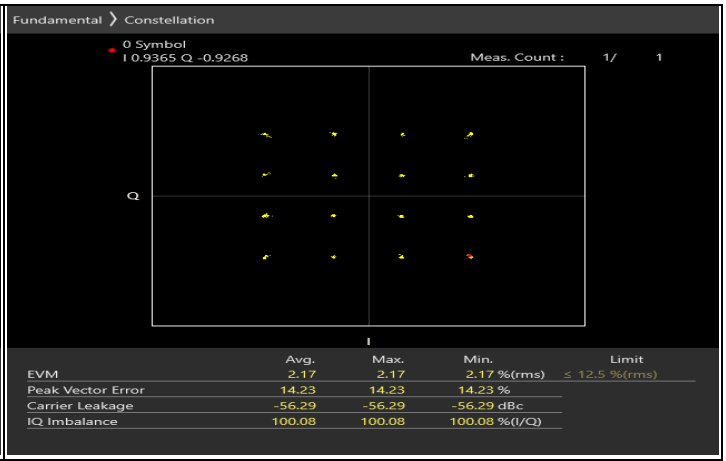
256QAM CH 26365 (1882.5 MHz)

7.2.15 LTE Band 26 (814-824 MHz)

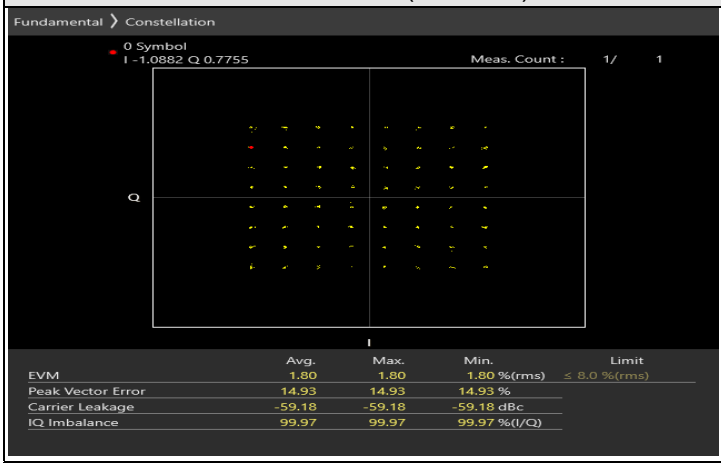
LTE Band 26 (814-824 MHz), Channel Bandwidth: 10 MHz



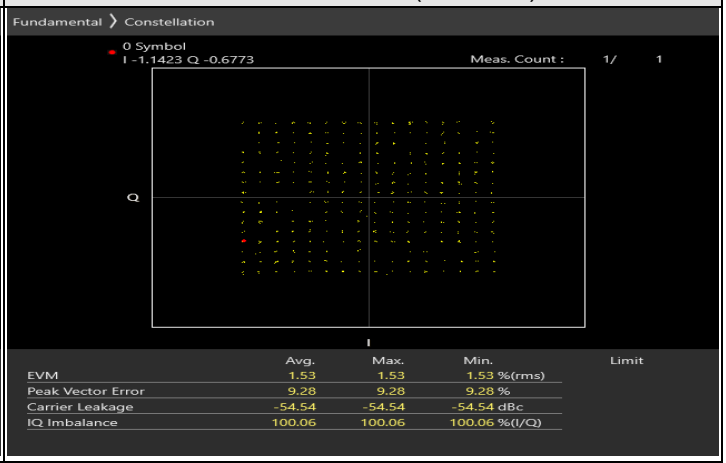
QPSK CH 26740 (819 MHz)



16QAM CH 26740 (819 MHz)



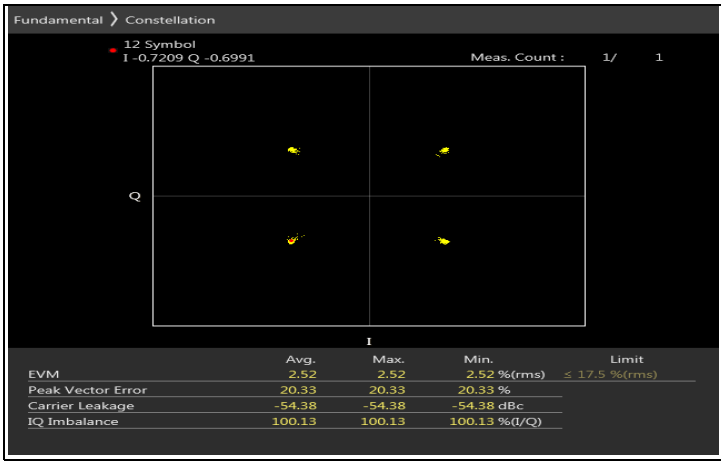
64QAM CH 26740 (819 MHz)



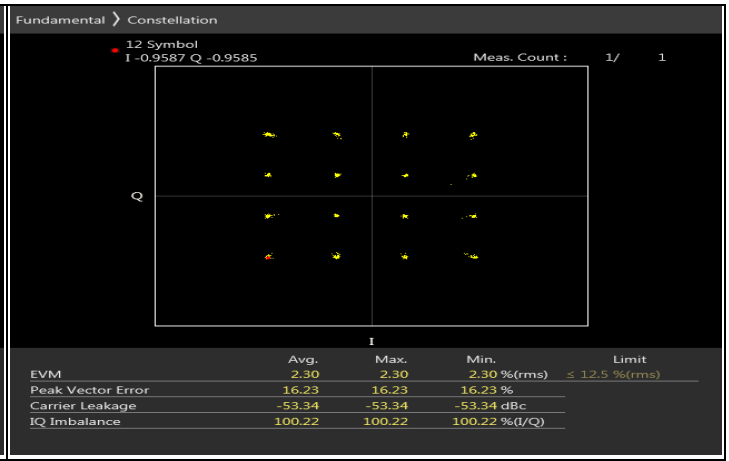
256QAM CH 26740 (819 MHz)

7.2.16 LTE Band 26 (824-849 MHz)

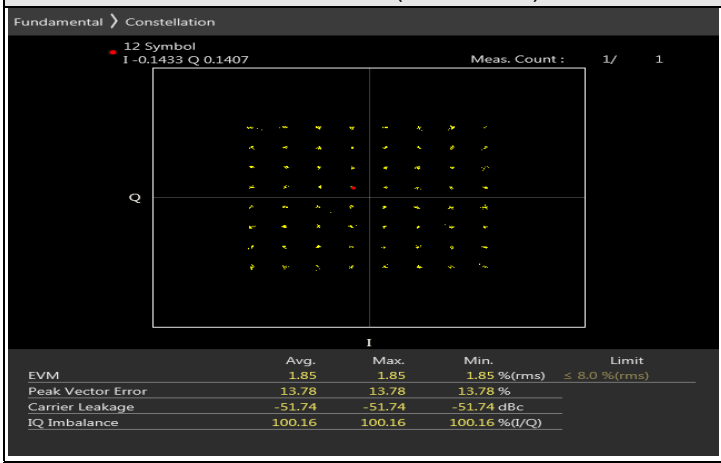
LTE Band 26 (824-849 MHz), Channel Bandwidth: 15 MHz



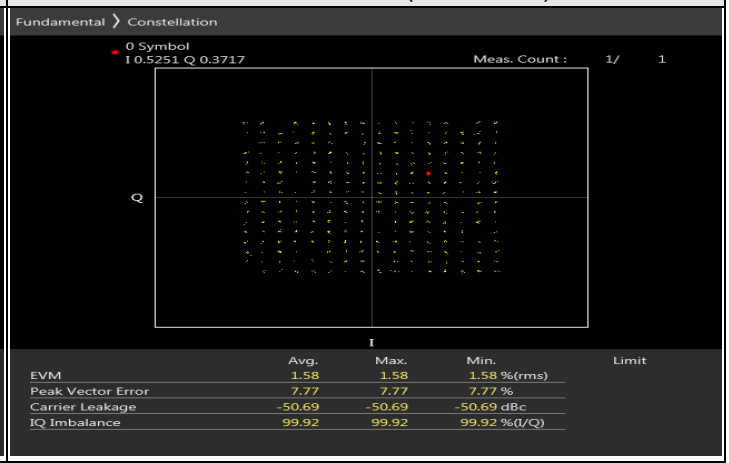
QPSK CH 26915 (836.5 MHz)



16QAM CH 26915 (836.5 MHz)



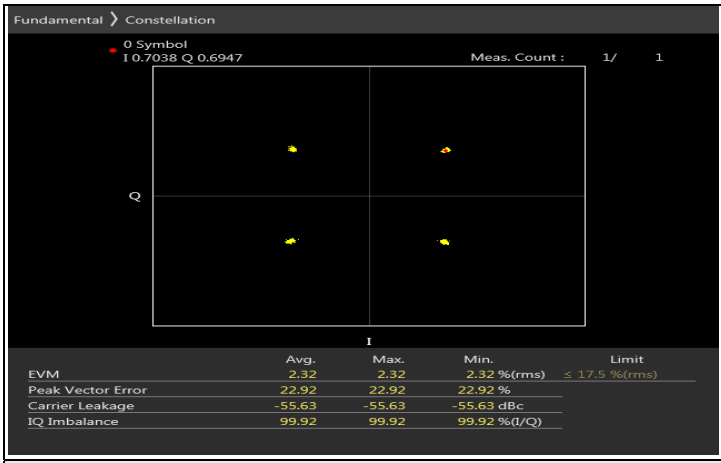
64QAM CH 26915 (836.5 MHz)



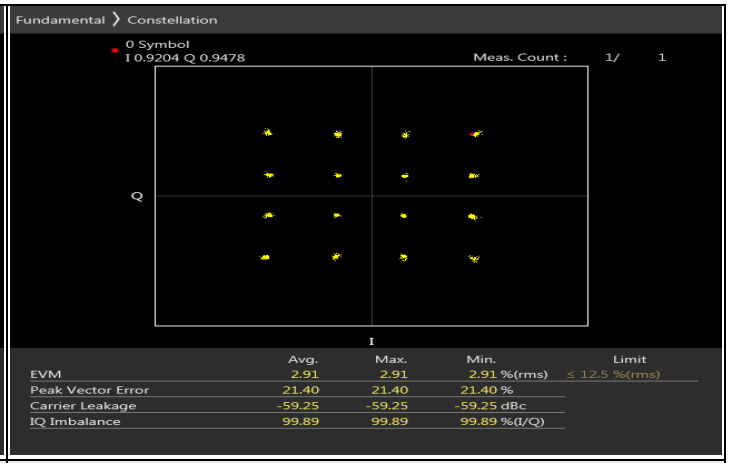
256QAM CH 26915 (836.5 MHz)

7.2.17 LTE Band 41

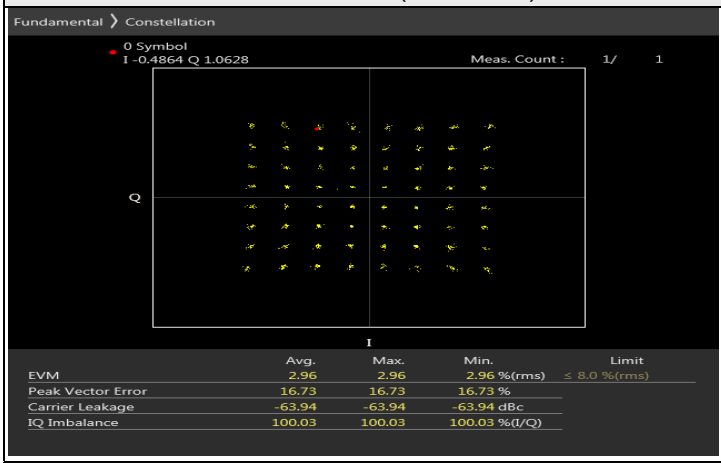
LTE Band 41, Channel Bandwidth: 20 MHz



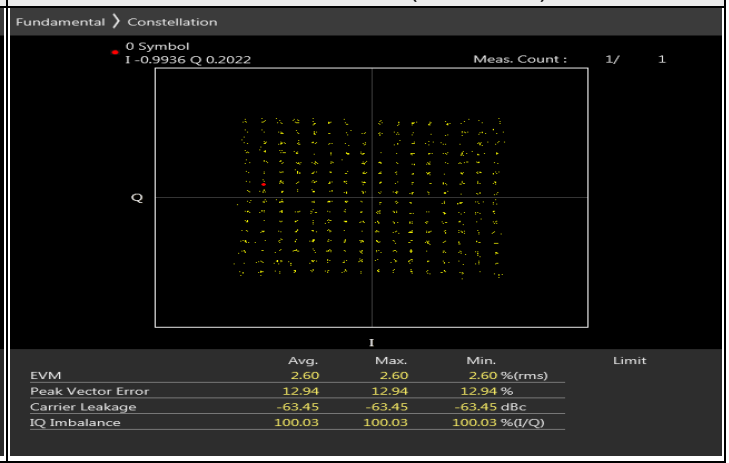
QPSK CH 40620 (2593 MHz)



16QAM CH 40620 (2593 MHz)



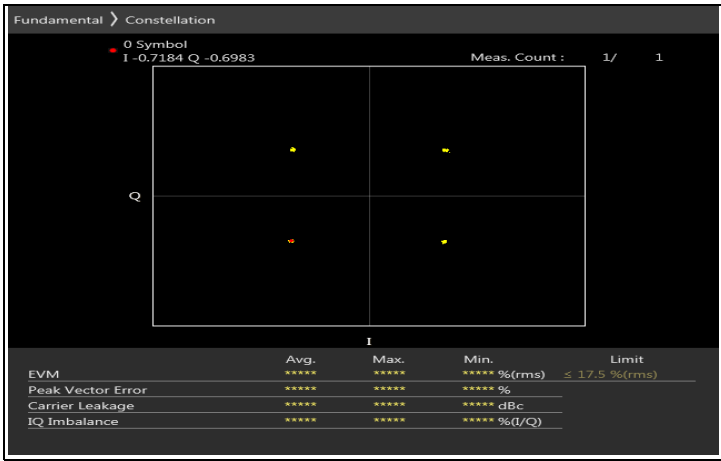
64QAM CH 40620 (2593 MHz)



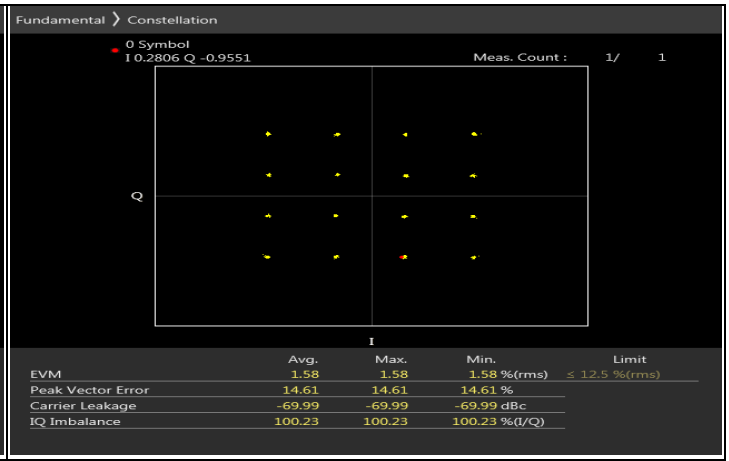
256QAM CH 40620 (2593 MHz)

7.2.18 LTE Band 66

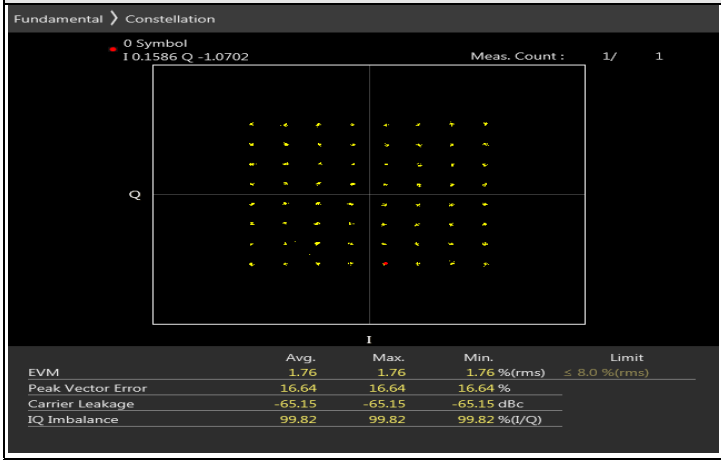
LTE Band 66, Channel Bandwidth: 20 MHz



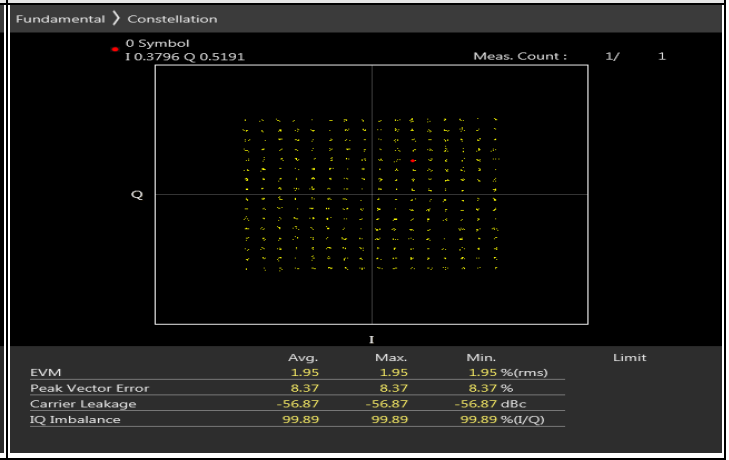
QPSK CH 132322 (1745 MHz)



16QAM CH 132322 (1745 MHz)



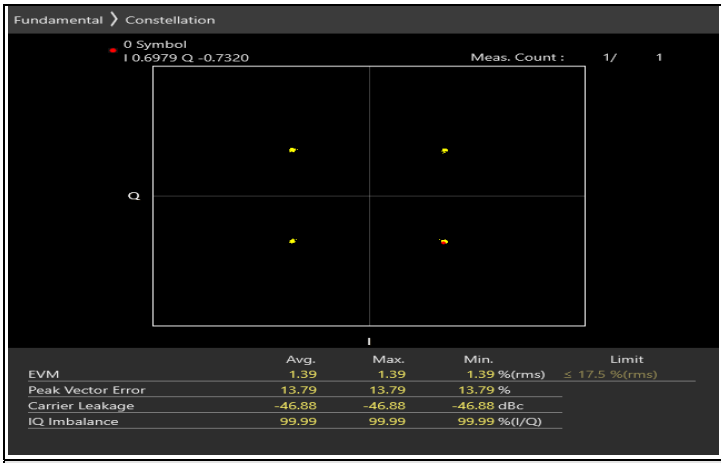
64QAM CH 132322 (1745 MHz)



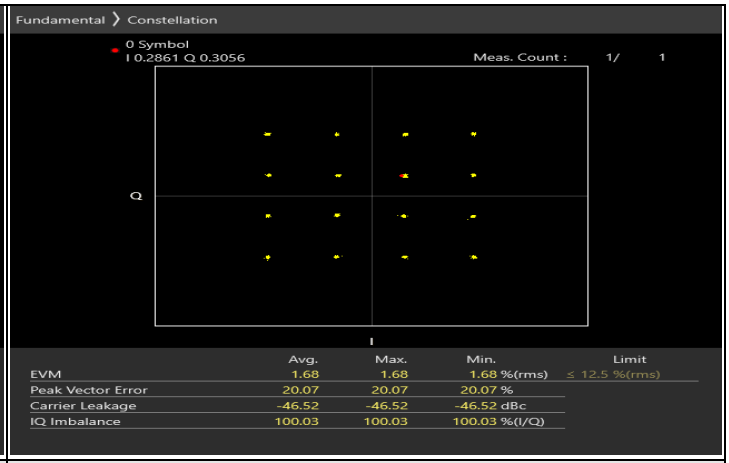
256QAM CH 132322 (1745 MHz)

7.2.19 LTE Band 71

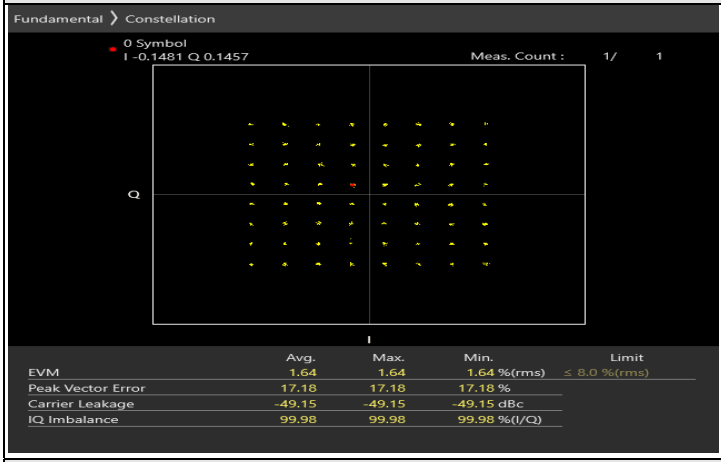
LTE Band 71, Channel Bandwidth: 20 MHz



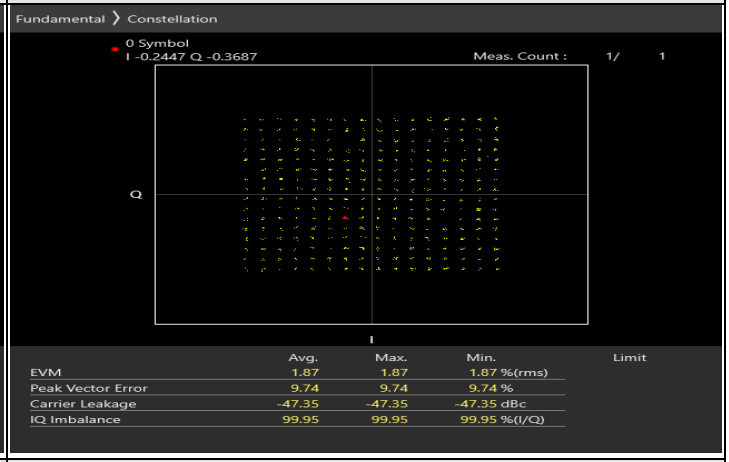
QPSK CH 133297 (680.5 MHz)



16QAM CH 133297 (680.5 MHz)



64QAM CH 133297 (680.5 MHz)



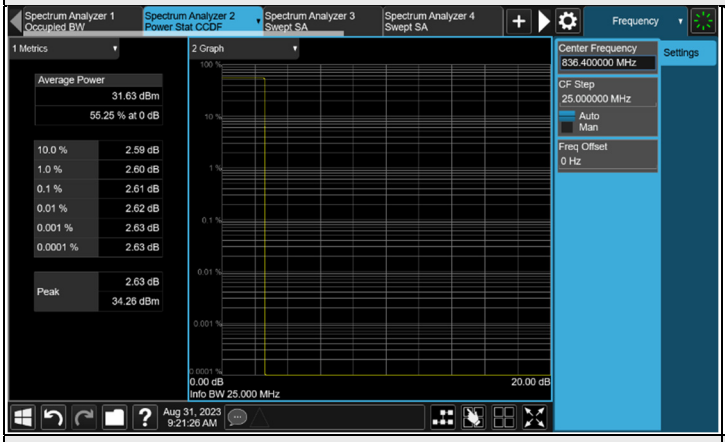
256QAM CH 133297 (680.5 MHz)

7.3 Peak to Average Ratio

Input Power:	4.7 Vdc	Environmental Conditions:	22°C, 73% RH	Tested By:	Willy Cheng

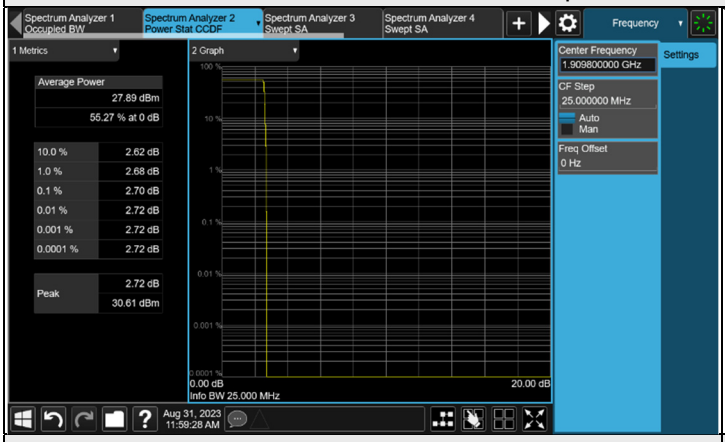
7.3.1 GSM 850

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
GSM	128	824.2	2.61	13	Pass
GSM	189	836.4	2.61	13	Pass
GSM	251	848.8	2.61	13	Pass
GPRS	128	824.2	2.62	13	Pass
GPRS	189	836.4	2.62	13	Pass
GPRS	251	848.8	2.62	13	Pass
EDGE	128	824.2	2.62	13	Pass
EDGE	189	836.4	2.61	13	Pass
EDGE	251	848.8	2.62	13	Pass

Spectrum Plot of Worst Value	
	
GSM CH 189 (836.4 MHz)	

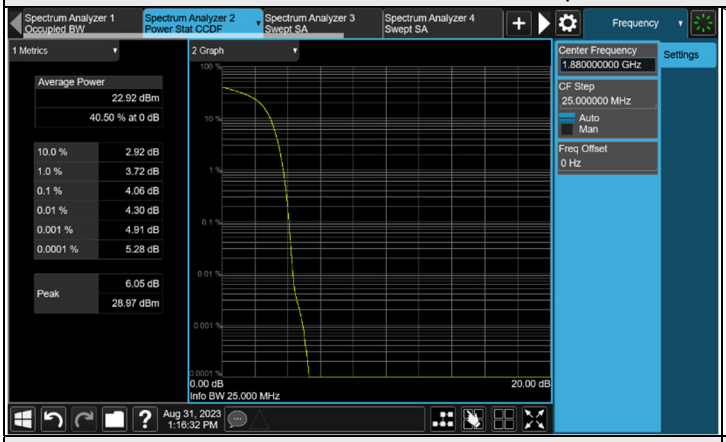
7.3.2 GSM 1900

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
GSM	512	1850.2	2.66	13	Pass
GSM	661	1880	2.69	13	Pass
GSM	810	1909.8	2.70	13	Pass
GPRS	512	1850.2	2.66	13	Pass
GPRS	661	1880	2.68	13	Pass
GPRS	810	1909.8	2.70	13	Pass
EDGE	512	1850.2	2.67	13	Pass
EDGE	661	1880	2.68	13	Pass
EDGE	810	1909.8	2.70	13	Pass

Spectrum Plot of Worst Value	
	
GSM CH 810 (1909.8 MHz)	

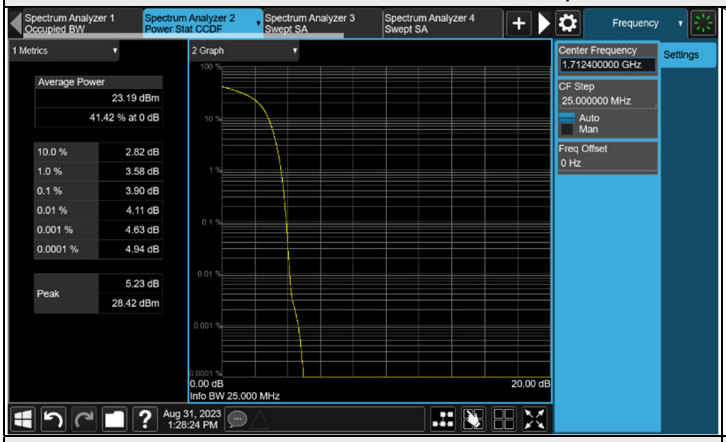
7.3.3 WCDMA Band 2

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
WCDMA	9262	1852.4	3.00	13	Pass
WCDMA	9400	1880	3.05	13	Pass
WCDMA	9538	1907.6	3.08	13	Pass
HSDPA	9262	1852.4	3.90	13	Pass
HSDPA	9400	1880	4.06	13	Pass
HSDPA	9538	1907.6	3.96	13	Pass
HSUPA	9262	1852.4	3.84	13	Pass
HSUPA	9400	1880	4.04	13	Pass
HSUPA	9538	1907.6	3.98	13	Pass

Spectrum Plot of Worst Value	
	
HSDPA CH 9400 (1880 MHz)	

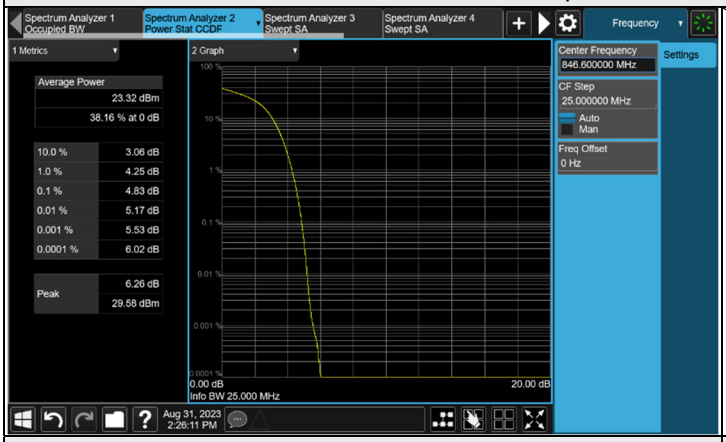
7.3.4 WCDMA Band 4

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
WCDMA	1312	1712.4	2.92	13	Pass
WCDMA	1413	1732.6	2.92	13	Pass
WCDMA	1513	1752.6	2.94	13	Pass
HSDPA	1312	1712.4	3.88	13	Pass
HSDPA	1413	1732.6	3.79	13	Pass
HSDPA	1513	1752.6	3.88	13	Pass
HSUPA	1312	1712.4	3.90	13	Pass
HSUPA	1413	1732.6	3.80	13	Pass
HSUPA	1513	1752.6	3.87	13	Pass

Spectrum Plot of Worst Value	
	
HSUPA CH 1312 (1712.4 MHz)	

7.3.5 WCDMA Band 5

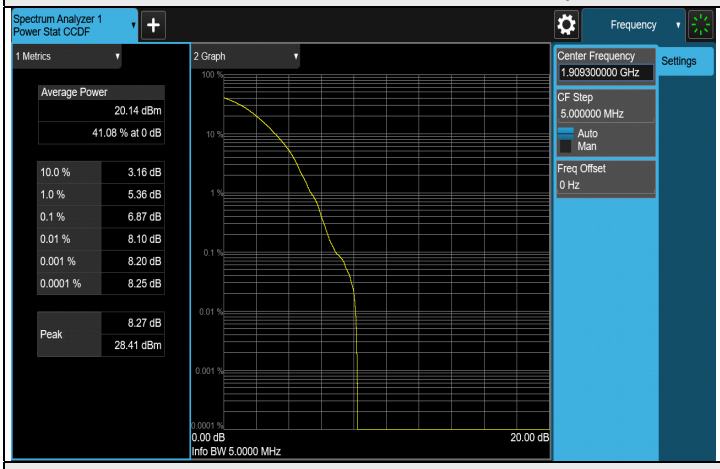
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
WCDMA	4132	826.4	3.84	13	Pass
WCDMA	4182	836.4	3.77	13	Pass
WCDMA	4223	846.6	3.72	13	Pass
HSDPA	4132	826.4	4.71	13	Pass
HSDPA	4182	836.4	4.51	13	Pass
HSDPA	4223	846.6	4.81	13	Pass
HSUPA	4132	826.4	4.60	13	Pass
HSUPA	4182	836.4	4.49	13	Pass
HSUPA	4223	846.6	4.83	13	Pass

Spectrum Plot of Worst Value	
	
HSUPA CH 4223 (846.6 MHz)	

7.3.6 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz

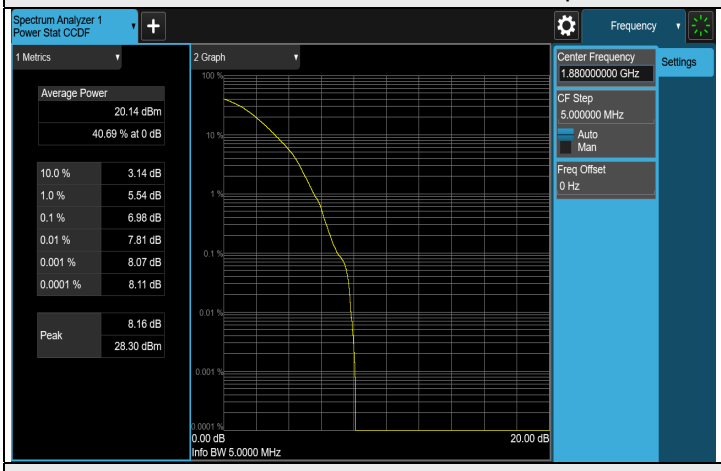
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18607	1850.7	5.33	13	PASS
QPSK	18900	1880	5.10	13	PASS
QPSK	19193	1909.3	5.01	13	PASS
16QAM	18607	1850.7	6.35	13	PASS
16QAM	18900	1880	6.21	13	PASS
16QAM	19193	1909.3	6.05	13	PASS
64QAM	18607	1850.7	6.47	13	PASS
64QAM	18900	1880	6.50	13	PASS
64QAM	19193	1909.3	6.40	13	PASS
256QAM	18607	1850.7	6.78	13	PASS
256QAM	18900	1880	6.85	13	PASS
256QAM	19193	1909.3	6.87	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 19193 (1909.3 MHz)	

LTE Band 2, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18615	1851.5	4.99	13	PASS
QPSK	18900	1880	5.04	13	PASS
QPSK	19185	1908.5	4.75	13	PASS
16QAM	18615	1851.5	6.08	13	PASS
16QAM	18900	1880	6.09	13	PASS
16QAM	19185	1908.5	5.82	13	PASS
64QAM	18615	1851.5	6.43	13	PASS
64QAM	18900	1880	6.45	13	PASS
64QAM	19185	1908.5	6.35	13	PASS
256QAM	18615	1851.5	6.74	13	PASS
256QAM	18900	1880	6.98	13	PASS
256QAM	19185	1908.5	6.79	13	PASS

Spectrum Plot of Worst Value

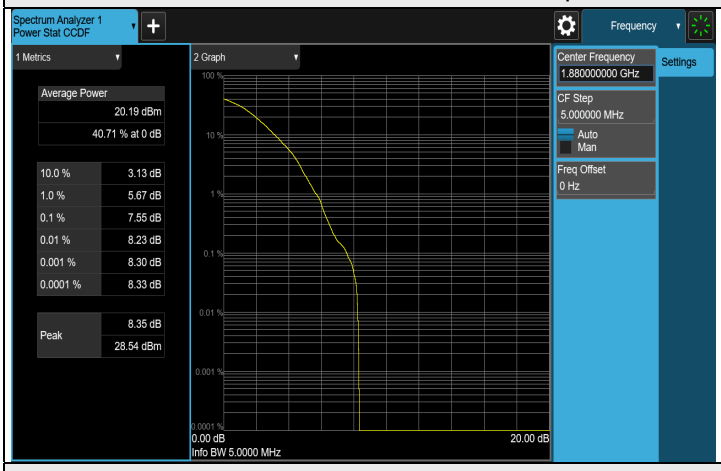


256QAM CH 18900 (1880 MHz)

LTE Band 2, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18625	1852.5	5.04	13	PASS
QPSK	18900	1880	5.02	13	PASS
QPSK	19175	1907.5	4.87	13	PASS
16QAM	18625	1852.5	6.73	13	PASS
16QAM	18900	1880	6.08	13	PASS
16QAM	19175	1907.5	6.04	13	PASS
64QAM	18625	1852.5	6.47	13	PASS
64QAM	18900	1880	6.50	13	PASS
64QAM	19175	1907.5	6.37	13	PASS
256QAM	18625	1852.5	7.18	13	PASS
256QAM	18900	1880	7.55	13	PASS
256QAM	19175	1907.5	7.20	13	PASS

Spectrum Plot of Worst Value

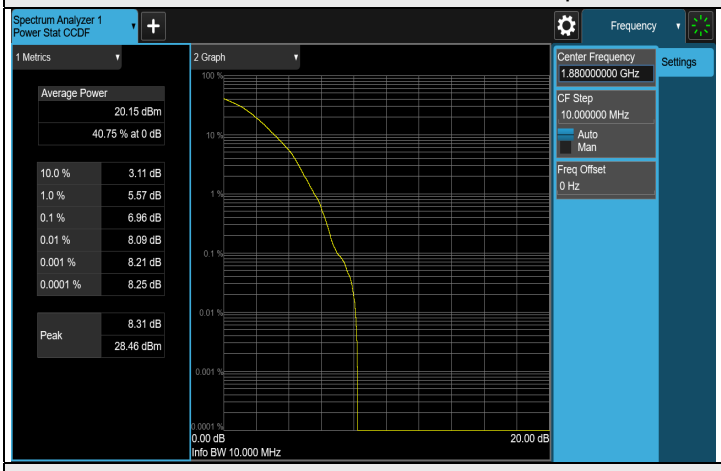


256QAM CH 18900 (1880 MHz)

LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18650	1855	5.09	13	PASS
QPSK	18900	1880	5.12	13	PASS
QPSK	19150	1905	4.92	13	PASS
16QAM	18650	1855	6.29	13	PASS
16QAM	18900	1880	6.32	13	PASS
16QAM	19150	1905	6.05	13	PASS
64QAM	18650	1855	6.43	13	PASS
64QAM	18900	1880	6.48	13	PASS
64QAM	19150	1905	6.38	13	PASS
256QAM	18650	1855	6.67	13	PASS
256QAM	18900	1880	6.96	13	PASS
256QAM	19150	1905	6.82	13	PASS

Spectrum Plot of Worst Value



256QAM CH 18900 (1880 MHz)