

RF SPOT CHECK REPORT

FCC ID: XMR2022EM060KGL
Application: Quectel Wireless Solutions Company Limited
Product: LTE-A Cat 6 M.2 Module
Model No.: EM060K-GL
Brand Name: Quectel
FCC Classification: PCS Licensed Transmitter (PCB)
FCC Rule Part(s): Part 2, 22 (H), 24 (E), 27
Result: Complies
Test Date: 2022-03-22 ~ 2022-04-23

Reviewed By:

Sunny Sun

Sunny Sun

Approved By:

Robin Wu

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.26-2015. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2203RSU045-U2	Rev. 01	Initial Report	06-16-2022	Valid

Note: EM060K-GL and EM120K-GL support the same bands, use the same chips, share the same software and hardware design, and the differences are category and DL MIMO. This report is based on FCC ID “XMR2022EM120KGL” to spot check EIRP, Band Edge, Conducted Spurious Emission test items.

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1.4. Product Information

Product Name	LTE-A Cat 6 M.2 Module
Model No.	EM060K-GL
Brand Name	Quectel
IMEI	867228050008597
UTRA Specification	Band 2, 4, 5
E-UTRA Specification	FDD Band: 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 66, 71 TDD Band: 38, 41, 46
GNSS Specification	GPS, GLONASS, Bei Dou, Galileo
Supply Voltage	3.135 ~ 4.4Vdc, typical 3.7Vdc
Operating Temperature:	-25 ~ 75 °C
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Product Specification under Test

E-UTRA Specification	
Single Band	FDD Band: 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 66, 71 TDD Band: 38, 41, 46
Intra-Band	CA_7C, CA_41C
Modulation	UL up to 64QAM, DL up to 256QAM
FDD Tx Frequency Range	Band 2: 1850 ~ 1910 MHz; Band 4: 1710 ~ 1755 MHz Band 5: 824 ~ 849 MHz; Band 7: 2500 ~ 2570 MHz Band 12: 699 ~ 716 MHz; Band 13: 777 ~ 787 MHz Band 17: 704 ~ 716 MHz; Band 25: 1850 ~ 1915 MHz Band 26: 824 ~ 849 MHz; Band 66: 1710 ~ 1780 MHz Band 71: 663 ~ 698 MHz
FDD Rx Frequency Range	Band 2: 1930 ~ 1990 MHz; Band 4: 2110 ~ 2155 MHz Band 5: 869 ~ 894 MHz; Band 7: 2620 ~ 2690 MHz Band 12: 729 ~ 746 MHz; Band 13: 746 ~ 756 MHz Band 17: 734 ~ 746 MHz; Band 25: 1930 ~ 1995 MHz Band 26: 869 ~ 894 MHz; Band 66: 2110 ~ 2180 MHz Band 71: 617 ~ 652 MHz
TDD Tx & Rx Frequency Range	Band 38: 2570 ~ 2620 MHz; Band 41: 2496 ~ 2690 MHz;

Note: LTE band 26 transmit frequency for part 90 rule is 814 ~ 824MHz and part 22 rule is 824 ~ 849MHz. ERP over 15MHz bandwidth complies the ERP limit line of part 22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies.

1.6. Description of Available Antennas

Technology	Frequency Range (MHz)	Antenna Type	Max Peak Gain (dBi)
LTE Band 2	1850 ~ 1910	Dipole	0.25
LTE Band 4	1710 ~ 1755		1.47
LTE Band 5	824 ~ 849		2.68
LTE Band 7	2500 ~ 2570		0.55
LTE Band 12	699 ~ 716		-0.20
LTE Band 13	777 ~ 787		1.54
LTE Band 14	788 ~ 798		2.42
LTE Band 17	704 ~ 716		-0.20
LTE Band 25	1850 ~ 1915		0.25
LTE Band 26	814 ~ 849		2.87
LTE Band 30	2305 ~ 2315		-3.06
LTE Band 38	2570 ~ 2620		-0.23
LTE Band 41	2496 ~ 2690		0.78
LTE Band 66	1710 ~ 1780		1.47
LTE Band 71	663 ~ 698		1.22

Note: All antenna information (Antenna type and Peak Gain) is provided by the manufacturer.

1.7. Test Methodology

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ANSI C63.26:2015
- FCC CFR 47 Part 2, Part 22, Part 24, Part 27
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r01: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01: Determining ERP and EIRP

1.8. Device Capabilities

This device contains the following capabilities:

Working on LTE Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 38, 41, 66, 71; Intra-band CA_7C, CA_41C LTE Module.

LTE Band 66 (1710 ~ 1780 MHz) overlaps the entire frequency range of LTE Band 4 (1710 ~ 1755 MHz). Therefore, test data provided in this report covers Band 4 as well as Band 66.

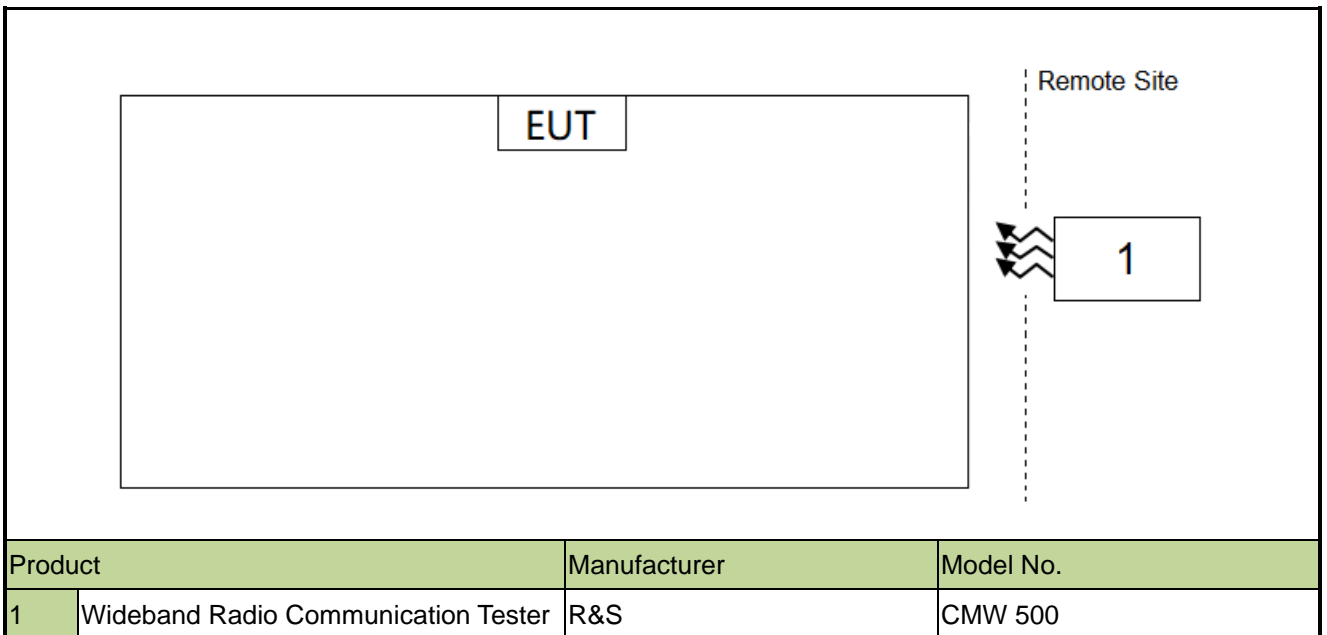
LTE Band 25 (1850 ~ 1915 MHz) overlaps the entire frequency range of LTE Band 2 (1850 ~ 1910 MHz). Therefore, test data provided in this report covers Band 2 as well as Band 25.

LTE Band 12 (699 ~ 716 MHz) overlaps the entire frequency range of LTE Band 17 (704 ~ 716 MHz). Therefore, test data provided in this report covers Band 17 as well as Band 12.

LTE Band 26 (814 ~ 849 MHz) overlaps the entire frequency range of LTE Band 5 (824 ~ 849 MHz). Therefore, test data provided in this report covers Band 5 as well as Band 26.

LTE Band 41 (2496 ~ 2690 MHz) overlaps the entire frequency range of LTE Band 38 (2570 ~ 2620 MHz). Therefore, test data provided in this report covers Band 38 as well as Band 41

1.9. Configuration of Tested System



1.10. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20% ~ 75%RH

2. Test Equipment Calibration Dtae

Instrument	Manufacturer	Model No.	Asset No.	Last Cali. Date	Cali. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE06362	1 year	2023/2/15	WZ-SR6
Shielding Room	HUAMING	WZ-SR6	MRTSUE06443	/	/	WZ-SR6
Signal Analyzer	Keysight	N9020B	MRTSUE06583	1 year	2022/10/10	WZ-SR6
Signal Generator	Keysight	N5173B	MRTSUE06606	1 year	2022/11/29	WZ-SR6
Radio Communication Analyzer	Anritsu	MT8821C	MRTSUE06960	1 year	2022/7/1	WZ-SR6
Radio Communication Test Station	Anritsu	MT8000A	MRTSUE06961	1 year	2022/7/1	WZ-SR6
Signal Analyzer	Keysight	N9010B	MRTSUE07028	1 year	2022/12/9	SIP-SR1
Attenuator	SHX	SMA10-3dB-18G	MRTSUE06695	1 year	2023-03-02	WZ
Directional Coupler	narda	4226-20	MRTSUE06065	1 year	2023-03-17	WZ
Directional Coupler	Agilent	87301D	MRTSUE06082	1 year	2023-03-07	WZ

3. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Conducted Spurious Emissions
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.78dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.13dB

4. Test Result

4.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Verdict
22.913(a)(5)	Equivalent Radiated Power (Band 5/26)	Conducted	Pass
27.50(b)(9), 27.50(c)(9)	Equivalent Radiated Power (Band 12, 13, 17)		
27.50(c)(10)	Equivalent Radiated Power (Band 71)		
24.232(c), 27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2/25, 7, 38/41)		
27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4/66)		
2.1051, 22.917(a) 24.238(a), 27.53(c)(g)(h)	Band Edge (Band 2/25, 4/66, 5/26, 12, 13, 17, 71)		Pass
27.53(m)	Band Edge (Band 7, 38/41)		
2.1051, 22.917(a) 24.238(a), 27.53(c)(g)(h)	Spurious Emission (Band 2/25, 4/66, 5/26, 12, 13, 17, 71)		
2.1051, 27.53(m)	Spurious Emission (Band 7, 38/41)		

Notes:

- 1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 2) All supported modulation types were evaluated. The worst-case emission of modulation was selected. Therefore, the Channel Band Edge, Conducted Spurious Emission (include the Intr-Band CA Mode) were presented the worst-case in the test report.

4.2. Equivalent Isotropically Radiated Power Measurement

4.2.1. Test Limit

Band 5/26:

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

Band 12, 13, 17

Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 30 watts ERP.

Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

Band 71

Fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

Band 2/25, 7, 38/41:

Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

Band 4/66:

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

4.2.2. Test Procedure

ANSI C63.26-2015 - Section 5.2

4.2.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

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

where

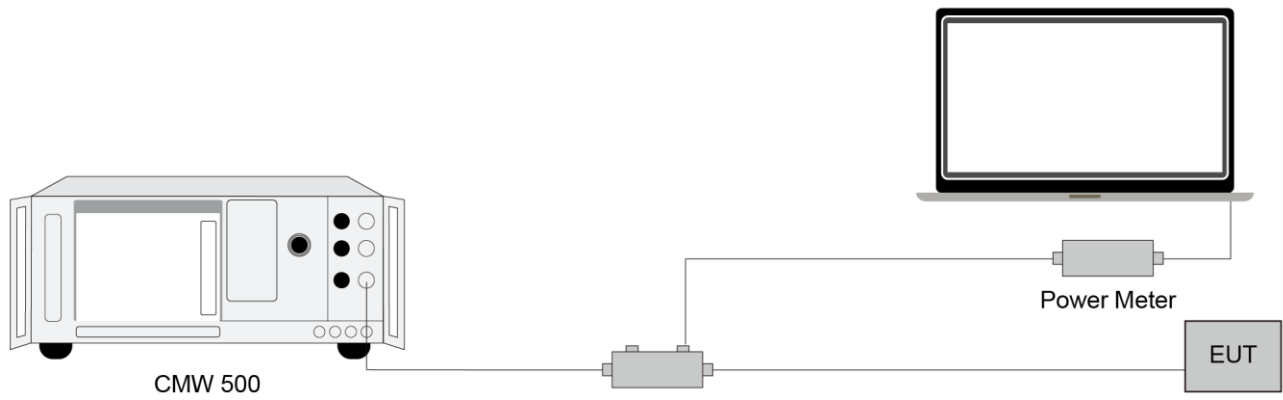
ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

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)

$$\text{ERP} = \text{EIRP} - 2.15$$

4.2.4. Test Setup



4.2.5. Test Result

Refer to Appendix A.3.

4.3. Band Edge Measurement

4.3.1. Test Limit

22.917(a), 24.238 (a), 27.53 (g) (h)

For operations in the 824 ~ 849 MHz, 1850 ~ 1910 MHz, 1930 ~ 1990 MHz, 600MHz & 698 ~ 746 MHz and 1710 ~ 1755 MHz, the FCC limit is $43 + 10\log_{10}(P_{\text{[Watts]}})$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz 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.

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P_{\text{[Watts]}})$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 Hz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} (P_{\text{[Watts]}})$, dB, for mobile and portable equipment.

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

4.3.2. Test Procedure

ANSI C63.26-2015 - Section 5.7

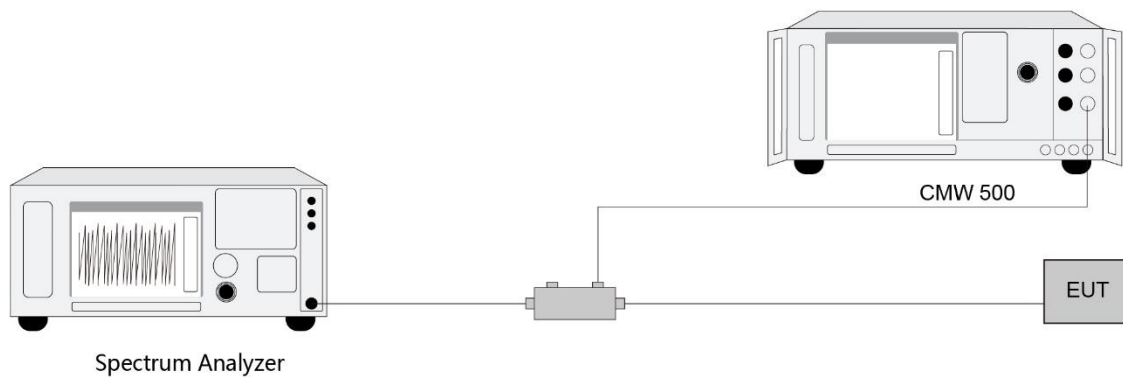
4.3.3. Test Setting

1. Set the analyzer frequency to low or high channel
2. $RBW \geq$ The nominal RBW shall be in the range of 1% of the anticipated OBW (in the 1MHz band)

immediately outside and adjacent to the band edge). For improvement of the accuracy in the measurement of the average power of a noise-like emission, a RBW narrower than the specified reference bandwidth can be used (generally limited to no less than 1% of the OBW), provided that a subsequent integration is performed over the full required measurement bandwidth. This integration should be performed using the spectrum analyzer's band power functions.

3. $VBW \geq 3 \cdot RBW$
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

4.3.4. Test Setup



4.3.5. Test Result

Refer to Appendix A.4.

4.4. Conducted Spurious Emissions Measurement

4.4.1. Test Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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.

For Band 7, 38/41 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 $55 + 10 \log(P)$ dB.

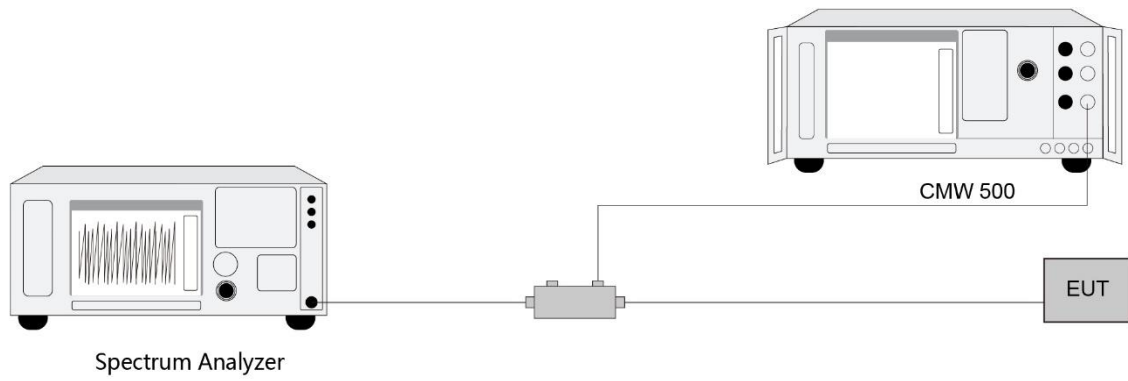
4.4.2. Test Procedure

ANSI C63.26-2015 - Section 5.7

4.4.3. Test Setting

1. Set the analyzer frequency to low, mid, high channel.
2. RBW = 1MHz
3. VBW $\geq 3 \cdot$ RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

4.4.4. Test Setup



4.4.5. Test Result

Refer to Appendix A.6

Appendix A - Test Result

A.1 Equivalent Isotropically Radited Power Test Result

Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/03/21 ~ 2022/04/07	Test Band	LTE Band 2/25

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
1850.70	1.4	1	0	22.82	23.07	< 33.01
1882.50				22.54	22.79	< 33.01
1914.30				22.57	22.82	< 33.01
1850.70	1.4	1	2	22.81	23.06	< 33.01
1882.50				22.72	22.97	< 33.01
1914.30				22.68	22.93	< 33.01
1850.70	1.4	1	6	22.70	22.95	< 33.01
1882.50				22.60	22.85	< 33.01
1914.30				22.64	22.89	< 33.01
1850.70	1.4	6	0	21.76	22.01	< 33.01
1882.50				21.71	21.96	< 33.01
1914.30				21.73	21.98	< 33.01
1851.50	3	1	0	22.89	23.14	< 33.01
1882.50				22.84	23.09	< 33.01
1913.50				22.68	22.93	< 33.01
1851.50	3	1	7	22.97	23.22	< 33.01
1882.50				22.80	23.05	< 33.01
1913.50				22.80	23.05	< 33.01
1851.50	3	1	14	22.87	23.12	< 33.01
1882.50				22.70	22.95	< 33.01
1913.50				22.65	22.90	< 33.01
1851.50	3	15	0	21.89	22.14	< 33.01
1882.50				21.80	22.05	< 33.01
1913.50				21.84	22.09	< 33.01

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
1852.50	5	1	0	22.82	23.07	< 33.01
1882.50				22.73	22.98	< 33.01
1912.50				22.84	23.09	< 33.01
1852.50	5	1	12	22.93	23.18	< 33.01
1882.50				22.77	23.02	< 33.01
1912.50				22.70	22.95	< 33.01
1852.50	5	1	24	22.97	23.22	< 33.01
1882.50				22.74	22.99	< 33.01
1912.50				22.67	22.92	< 33.01
1852.50	5	25	0	21.95	22.20	< 33.01
1882.50				21.83	22.08	< 33.01
1912.50				21.80	22.05	< 33.01
1855.00	10	1	0	22.83	23.08	< 33.01
1882.50				22.69	22.94	< 33.01
1910.00				22.74	22.99	< 33.01
1855.00	10	1	24	22.94	23.19	< 33.01
1882.50				22.77	23.02	< 33.01
1910.00				22.75	23.00	< 33.01
1855.00	10	1	49	22.84	23.09	< 33.01
1882.50				22.70	22.95	< 33.01
1910.00				22.68	22.93	< 33.01
1855.00	10	50	0	21.86	22.11	< 33.01
1882.50				21.83	22.08	< 33.01
1910.00				21.83	22.08	< 33.01

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
1857.50	15	1	0	22.88	23.13	< 33.01
1882.50				22.78	23.03	< 33.01
1907.50				22.75	23.00	< 33.01
1857.50	15	1	37	22.89	23.14	< 33.01
1882.50				22.72	22.97	< 33.01
1907.50				22.76	23.01	< 33.01
1857.50	15	1	74	22.92	23.17	< 33.01
1882.50				22.90	23.15	< 33.01
1907.50				22.79	23.04	< 33.01
1857.50	15	75	0	21.90	22.15	< 33.01
1882.50				21.92	22.17	< 33.01
1907.50				21.88	22.13	< 33.01
1860.00	20	1	0	22.85	23.10	< 33.01
1882.50				22.68	22.93	< 33.01
1905.00				22.75	23.00	< 33.01
1860.00	20	1	49	22.90	23.15	< 33.01
1882.50				22.85	23.10	< 33.01
1905.00				22.78	23.03	< 33.01
1860.00	20	1	99	22.93	23.18	< 33.01
1882.50				22.83	23.08	< 33.01
1905.00				22.85	23.10	< 33.01
1860.00	20	100	0	21.96	22.21	< 33.01
1882.50				21.77	22.02	< 33.01
1905.00				21.85	22.10	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/03/21 ~ 2022/04/07	Test Band	LTE Band 4/66

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
1710.70	1.4	1	0	22.68	24.15	< 30.00
1745.00				22.69	24.16	< 30.00
1779.30				22.61	24.08	< 30.00
1710.70	1.4	1	2	22.78	24.25	< 30.00
1745.00				22.82	24.29	< 30.00
1779.30				22.72	24.19	< 30.00
1710.70	1.4	1	6	22.77	24.24	< 30.00
1745.00				22.69	24.16	< 30.00
1779.30				22.61	24.08	< 30.00
1710.70	1.4	6	0	21.82	23.29	< 30.00
1745.00				21.90	23.37	< 30.00
1779.30				21.73	23.20	< 30.00
1711.50	3	1	0	22.76	24.23	< 30.00
1745.00				22.73	24.20	< 30.00
1778.50				22.71	24.18	< 30.00
1711.50	3	1	7	22.94	24.41	< 30.00
1745.00				22.91	24.38	< 30.00
1778.50				22.75	24.22	< 30.00
1711.50	3	1	14	22.77	24.24	< 30.00
1745.00				22.85	24.32	< 30.00
1778.50				22.67	24.14	< 30.00
1711.50	3	15	0	21.90	23.37	< 30.00
1745.00				21.93	23.40	< 30.00
1778.50				21.79	23.26	< 30.00

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
1712.50	5	1	0	22.77	24.24	< 30.00
1745.00				22.78	24.25	< 30.00
1777.50				22.66	24.13	< 30.00
1712.50	5	1	12	22.83	24.30	< 30.00
1745.00				22.83	24.30	< 30.00
1777.50				22.74	24.21	< 30.00
1712.50	5	1	24	22.86	24.33	< 30.00
1745.00				22.83	24.30	< 30.00
1777.50				22.67	24.14	< 30.00
1712.50	5	25	0	21.88	23.35	< 30.00
1745.00				21.93	23.40	< 30.00
1777.50				21.75	23.22	< 30.00
1715.00	10	1	0	22.82	24.29	< 30.00
1745.00				22.75	24.22	< 30.00
1775.00				22.63	24.10	< 30.00
1715.00	10	1	24	22.89	24.36	< 30.00
1745.00				22.85	24.32	< 30.00
1775.00				22.73	24.20	< 30.00
1715.00	10	1	49	22.77	24.24	< 30.00
1745.00				22.86	24.33	< 30.00
1775.00				22.74	24.21	< 30.00
1715.00	10	50	0	21.89	23.36	< 30.00
1745.00				21.96	23.43	< 30.00
1775.00				21.82	23.29	< 30.00

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
1717.50	15	1	0	22.84	24.31	< 30.00
1745.00				22.72	24.19	< 30.00
1772.50				22.75	24.22	< 30.00
1717.50	15	1	37	22.88	24.35	< 30.00
1745.00				22.88	24.35	< 30.00
1772.50				22.64	24.11	< 30.00
1717.50	15	1	74	22.93	24.40	< 30.00
1745.00				22.91	24.38	< 30.00
1772.50				22.76	24.23	< 30.00
1717.50	15	75	0	21.98	23.45	< 30.00
1745.00				21.93	23.40	< 30.00
1772.50				21.85	23.32	< 30.00
1720.00	20	1	0	22.81	24.28	< 30.00
1745.00				22.75	24.22	< 30.00
1770.00				22.73	24.20	< 30.00
1720.00	20	1	49	22.86	24.33	< 30.00
1745.00				22.87	24.34	< 30.00
1770.00				22.67	24.14	< 30.00
1720.00	20	1	99	22.97	24.44	< 30.00
1745.00				22.83	24.30	< 30.00
1770.00				22.78	24.25	< 30.00
1720.00	20	100	0	21.92	23.39	< 30.00
1745.00				21.90	23.37	< 30.00
1770.00				21.86	23.33	< 30.00

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/03/21 ~ 2022/04/07	Test Band	LTE Band 5/26

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
824.70	1.4	1	0	22.81	23.34	< 38.45
836.50				22.80	23.33	< 38.45
848.30				22.72	23.25	< 38.45
824.70	1.4	1	2	22.92	23.45	< 38.45
836.50				22.88	23.41	< 38.45
848.30				22.86	23.39	< 38.45
824.70	1.4	1	6	22.82	23.35	< 38.45
836.50				22.84	23.37	< 38.45
848.30				22.72	23.25	< 38.45
824.70	1.4	6	0	21.92	22.45	< 38.45
836.50				21.90	22.43	< 38.45
848.30				21.87	22.40	< 38.45
825.50	3	1	0	22.98	23.51	< 38.45
836.50				22.94	23.47	< 38.45
846.50				22.91	23.44	< 38.45
825.50	3	1	7	23.09	23.62	< 38.45
836.50				23.07	23.60	< 38.45
846.50				22.86	23.39	< 38.45
825.50	3	1	14	22.87	23.40	< 38.45
836.50				22.90	23.43	< 38.45
846.50				22.90	23.43	< 38.45
825.50	3	15	0	22.00	22.53	< 38.45
836.50				22.03	22.56	< 38.45
846.50				22.03	22.56	< 38.45

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
826.50	5	1	0	22.91	23.44	< 38.45
836.50				23.01	23.54	< 38.45
846.50				23.01	23.54	< 38.45
826.50	5	1	12	22.94	23.47	< 38.45
836.50				22.90	23.43	< 38.45
846.50				22.86	23.39	< 38.45
826.50	5	1	24	22.87	23.40	< 38.45
836.50				22.92	23.45	< 38.45
846.50				22.86	23.39	< 38.45
826.50	5	25	0	21.93	22.46	< 38.45
836.50				22.07	22.60	< 38.45
846.50				22.01	22.54	< 38.45
829.00	10	1	0	22.95	23.48	< 38.45
836.50				23.08	23.61	< 38.45
844.00				23.00	23.53	< 38.45
829.00	10	1	24	22.92	23.45	< 38.45
836.50				22.94	23.47	< 38.45
844.00				22.89	23.42	< 38.45
829.00	10	1	49	22.95	23.48	< 38.45
836.50				22.98	23.51	< 38.45
844.00				22.86	23.39	< 38.45
829.00	10	50	0	22.07	22.60	< 38.45
836.50				22.05	22.58	< 38.45
844.00				22.01	22.54	< 38.45

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
821.50	15	1	0	22.98	23.51	< 38.45
836.50				23.03	23.56	< 38.45
841.50				22.96	23.49	< 38.45
821.50	15	1	37	22.90	23.43	< 38.45
836.50				22.91	23.44	< 38.45
841.50				22.88	23.41	< 38.45
821.50	15	1	74	22.85	23.38	< 38.45
836.50				22.84	23.37	< 38.45
841.50				22.78	23.31	< 38.45
821.50	15	75	0	22.00	22.53	< 38.45
836.50				21.98	22.51	< 38.45
841.50				21.93	22.46	< 38.45
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15						

Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/03/21 ~ 2022/04/07	Test Band	LTE Band 7

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
2502.50	5	1	0	22.74	23.29	< 33.01
2535.00				22.77	23.32	< 33.01
2567.50				22.84	23.39	< 33.01
2502.50	5	1	12	22.71	23.26	< 33.01
2535.00				22.73	23.28	< 33.01
2567.50				22.87	23.42	< 33.01
2502.50	5	1	24	22.83	23.38	< 33.01
2535.00				22.72	23.27	< 33.01
2567.50				22.83	23.38	< 33.01
2502.50	5	25	0	21.82	22.37	< 33.01
2535.00				21.83	22.38	< 33.01
2567.50				21.96	22.51	< 33.01
2505.00	10	1	0	22.77	23.32	< 33.01
2535.00				22.79	23.34	< 33.01
2565.00				22.84	23.39	< 33.01
2505.00	10	1	24	22.82	23.37	< 33.01
2535.00				22.80	23.35	< 33.01
2565.00				22.91	23.46	< 33.01
2505.00	10	1	49	22.86	23.41	< 33.01
2535.00				22.75	23.30	< 33.01
2565.00				22.83	23.38	< 33.01
2505.00	10	50	0	21.79	22.34	< 33.01
2535.00				21.85	22.40	< 33.01
2565.00				21.89	22.44	< 33.01

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
2507.50	15	1	0	22.93	23.48	< 33.01
2535.00				22.82	23.37	< 33.01
2562.50				22.92	23.47	< 33.01
2507.50	15	1	37	22.92	23.47	< 33.01
2535.00				22.77	23.32	< 33.01
2562.50				22.80	23.35	< 33.01
2507.50	15	1	74	22.91	23.46	< 33.01
2535.00				22.74	23.29	< 33.01
2562.50				22.93	23.48	< 33.01
2507.50	15	75	0	21.90	22.45	< 33.01
2535.00				21.87	22.42	< 33.01
2562.50				21.88	22.43	< 33.01
2510.00	20	1	0	22.81	23.36	< 33.01
2535.00				22.99	23.54	< 33.01
2560.00				22.93	23.48	< 33.01
2510.00	20	1	49	22.74	23.29	< 33.01
2535.00				22.79	23.34	< 33.01
2560.00				22.87	23.42	< 33.01
2510.00	20	1	99	22.92	23.47	< 33.01
2535.00				22.75	23.30	< 33.01
2560.00				22.72	23.27	< 33.01
2510.00	20	100	0	21.84	22.39	< 33.01
2535.00				21.87	22.42	< 33.01
2560.00				21.87	22.42	< 33.01

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/03/21 ~ 2022/04/07	Test Band	LTE Band 12/17

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
699.7	1.4	1	0	22.87	20.52	< 34.77
707.5				22.80	20.45	< 34.77
715.3				22.77	20.42	< 34.77
699.7	1.4	1	2	22.94	20.59	< 34.77
707.5				22.86	20.51	< 34.77
715.3				22.86	20.51	< 34.77
699.7	1.4	1	6	22.82	20.47	< 34.77
707.5				22.74	20.39	< 34.77
715.3				22.81	20.46	< 34.77
699.7	1.4	6	0	21.95	19.60	< 34.77
707.5				21.94	19.59	< 34.77
715.3				21.98	19.63	< 34.77
700.5	3	1	0	22.93	20.58	< 34.77
707.5				22.89	20.54	< 34.77
714.5				22.91	20.56	< 34.77
700.5	3	1	7	23.02	20.67	< 34.77
707.5				22.89	20.54	< 34.77
714.5				22.97	20.62	< 34.77
700.5	3	1	14	22.91	20.56	< 34.77
707.5				22.81	20.46	< 34.77
714.5				22.87	20.52	< 34.77
700.5	3	15	0	22.00	19.65	< 34.77
707.5				21.98	19.63	< 34.77
714.5				22.00	19.65	< 34.77

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
701.5	5	1	0	22.92	20.57	< 34.77
707.5				22.89	20.54	< 34.77
713.5				22.82	20.47	< 34.77
701.5	5	1	12	22.94	20.59	< 34.77
707.5				22.84	20.49	< 34.77
713.5				22.87	20.52	< 34.77
701.5	5	1	24	22.89	20.54	< 34.77
707.5				22.80	20.45	< 34.77
713.5				22.91	20.56	< 34.77
701.5	5	25	0	22.01	19.66	< 34.77
707.5				22.00	19.65	< 34.77
713.5				21.88	19.53	< 34.77
704.0	10	1	0	22.97	20.62	< 34.77
707.5				22.89	20.54	< 34.77
711.0				22.86	20.51	< 34.77
704.0	10	1	24	22.92	20.57	< 34.77
707.5				22.87	20.52	< 34.77
711.0				22.84	20.49	< 34.77
704.0	10	1	49	22.89	20.54	< 34.77
707.5				22.83	20.48	< 34.77
711.0				22.86	20.51	< 34.77
704.0	10	50	0	21.95	19.60	< 34.77
707.5				21.97	19.62	< 34.77
711.0				21.93	19.58	< 34.77
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15						

Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/03/21 ~ 2022/04/07	Test Band	LTE Band 13

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
779.5	5	1	0	22.75	22.14	< 34.77
782.0				22.83	22.22	< 34.77
784.5				22.72	22.11	< 34.77
779.5	5	1	12	22.72	22.11	< 34.77
782.0				22.72	22.11	< 34.77
784.5				22.75	22.14	< 34.77
779.5	5	1	24	22.66	22.05	< 34.77
782.0				22.83	22.22	< 34.77
784.5				22.73	22.12	< 34.77
779.5	5	25	0	21.88	21.27	< 34.77
782.0				21.82	21.21	< 34.77
784.5				21.80	21.19	< 34.77
782.0	10	1	0	22.75	22.14	< 34.77
782.0		1	24	22.77	22.16	< 34.77
782.0		1	49	22.79	22.18	< 34.77
782.0		50	0	21.80	21.19	< 34.77

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/03/21 ~ 2022/04/07	Test Band	LTE Band 38/41

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
2498.50	5	1	0	22.57	23.35	< 33.01
2593.00				22.74	23.52	< 33.01
2687.50				22.87	23.65	< 33.01
2498.50	5	1	12	22.60	23.38	< 33.01
2593.00				22.81	23.59	< 33.01
2687.50				22.87	23.65	< 33.01
2498.50	5	1	24	22.58	23.36	< 33.01
2593.00				22.75	23.53	< 33.01
2687.50				22.81	23.59	< 33.01
2498.50	5	25	0	21.64	22.42	< 33.01
2593.00				21.74	22.52	< 33.01
2687.50				21.89	22.67	< 33.01
2501.00	10	1	0	22.59	23.37	< 33.01
2593.00				22.95	23.73	< 33.01
2685.00				22.83	23.61	< 33.01
2501.00	10	1	24	22.63	23.41	< 33.01
2593.00				22.90	23.68	< 33.01
2685.00				22.83	23.61	< 33.01
2501.00	10	1	49	22.74	23.52	< 33.01
2593.00				22.73	23.51	< 33.01
2685.00				22.88	23.66	< 33.01
2501.00	10	50	0	21.69	22.47	< 33.01
2593.00				21.77	22.55	< 33.01
2685.00				21.87	22.65	< 33.01

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
2503.50	15	1	0	22.64	23.42	< 33.01
2593.00				22.99	23.77	< 33.01
2682.50				22.80	23.58	< 33.01
2503.50	15	1	37	22.69	23.47	< 33.01
2593.00				22.86	23.64	< 33.01
2682.50				22.92	23.70	< 33.01
2503.50	15	1	74	22.81	23.59	< 33.01
2593.00				22.90	23.68	< 33.01
2682.50				22.88	23.66	< 33.01
2503.50	15	75	0	21.75	22.53	< 33.01
2593.00				21.76	22.54	< 33.01
2682.50				21.88	22.66	< 33.01
2506.00	20	1	0	22.66	23.44	< 33.01
2593.00				23.07	23.85	< 33.01
2680.00				22.94	23.72	< 33.01
2506.00	20	1	49	22.69	23.47	< 33.01
2593.00				22.86	23.64	< 33.01
2680.00				22.79	23.57	< 33.01
2506.00	20	1	99	22.82	23.60	< 33.01
2593.00				22.97	23.75	< 33.01
2680.00				22.85	23.63	< 33.01
2506.00	20	100	0	21.79	22.57	< 33.01
2593.00				21.83	22.61	< 33.01
2680.00				21.81	22.59	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/03/21 ~ 2022/04/07	Test Band	LTE Band 71

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
665.5	5	1	0	22.75	21.82	< 34.77
680.5				22.92	21.99	< 34.77
695.5				22.97	22.04	< 34.77
665.5	5	1	12	22.78	21.85	< 34.77
680.5				22.86	21.93	< 34.77
695.5				23.00	22.07	< 34.77
665.5	5	1	24	22.78	21.85	< 34.77
680.5				22.82	21.89	< 34.77
695.5				22.92	21.99	< 34.77
665.5	5	25	0	21.91	20.98	< 34.77
680.5				21.99	21.06	< 34.77
695.5				22.05	21.12	< 34.77
668.0	10	1	0	22.79	21.86	< 34.77
680.5				22.81	21.88	< 34.77
693.0				22.96	22.03	< 34.77
668.0	10	1	24	22.80	21.87	< 34.77
680.5				22.87	21.94	< 34.77
693.0				23.05	22.12	< 34.77
668.0	10	1	49	22.79	21.86	< 34.77
680.5				22.93	22.00	< 34.77
693.0				22.89	21.96	< 34.77
668.0	10	50	0	21.97	21.04	< 34.77
680.5				21.98	21.05	< 34.77
693.0				21.96	21.03	< 34.77

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
670.5	15	1	0	22.81	21.88	< 34.77
680.5				22.96	22.03	< 34.77
690.5				22.90	21.97	< 34.77
670.5	15	1	37	22.81	21.88	< 34.77
680.5				22.96	22.03	< 34.77
690.5				22.88	21.95	< 34.77
670.5	15	1	74	22.95	22.02	< 34.77
680.5				22.86	21.93	< 34.77
690.5				22.96	22.03	< 34.77
670.5	15	75	0	21.93	21.00	< 34.77
680.5				21.99	21.06	< 34.77
690.5				22.00	21.07	< 34.77
673.0	20	1	0	22.85	21.92	< 34.77
683.0				22.94	22.01	< 34.77
688.0				23.06	22.13	< 34.77
673.0	20	1	49	22.87	21.94	< 34.77
683.0				22.83	21.90	< 34.77
688.0				22.93	22.00	< 34.77
673.0	20	1	99	22.81	21.88	< 34.77
683.0				23.04	22.11	< 34.77
688.0				22.97	22.04	< 34.77
673.0	20	100	0	22.10	21.17	< 34.77
683.0				21.99	21.06	< 34.77
688.0				22.01	21.08	< 34.77

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

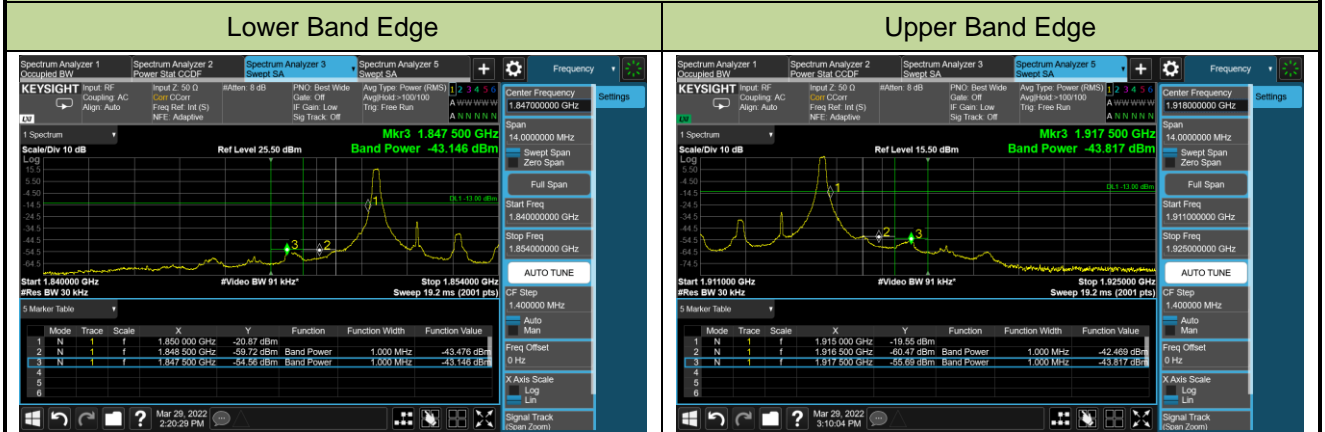
A.2 Band Edge Test Result

Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/03/29	Test Band	LTE Band 2/25

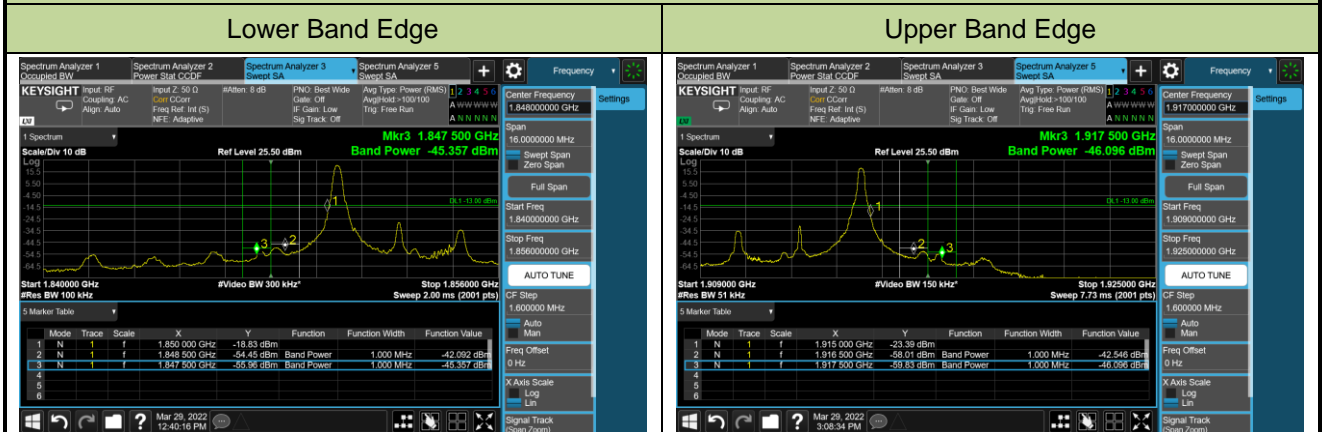
1.4MHz Channel Bandwidth - 1RB



3MHz Channel Bandwidth - 1RB

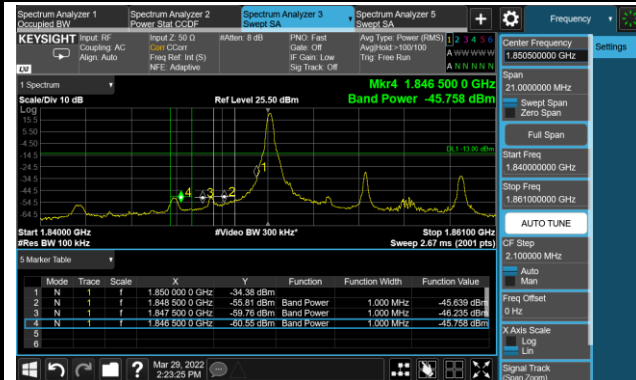


5MHz Channel Bandwidth - 1RB

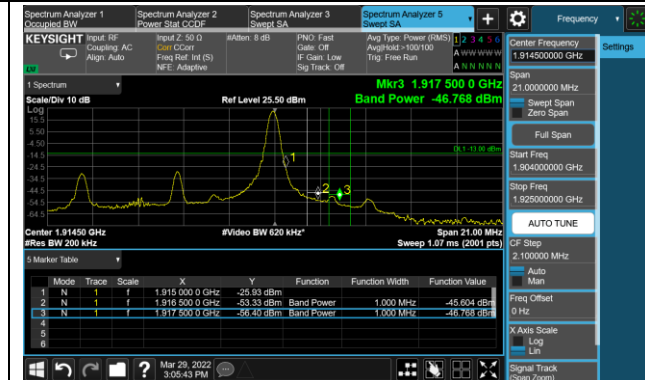


10MHz Channel Bandwidth - 1RB

Lower Band Edge

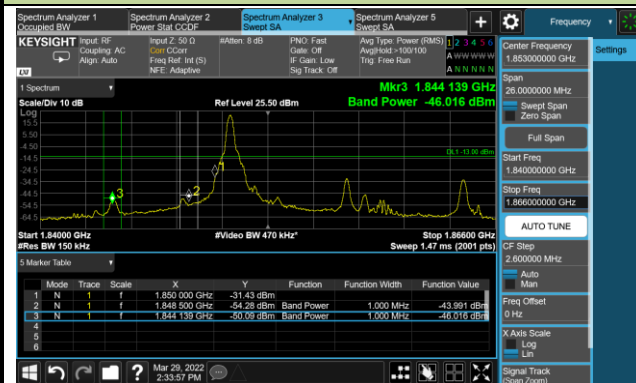


Upper Band Edge



15MHz Channel Bandwidth - 1RB

Lower Band Edge

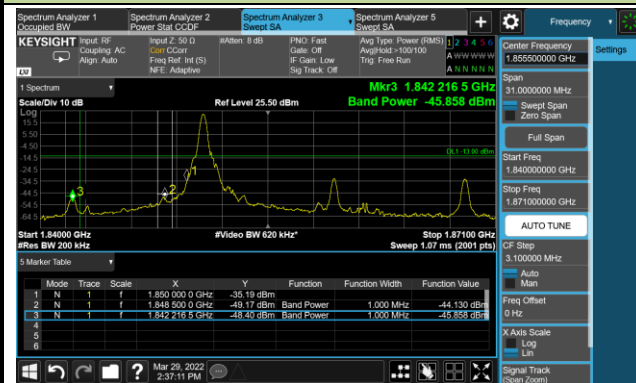


Upper Band Edge



20MHz Channel Bandwidth - 1RB

Lower Band Edge

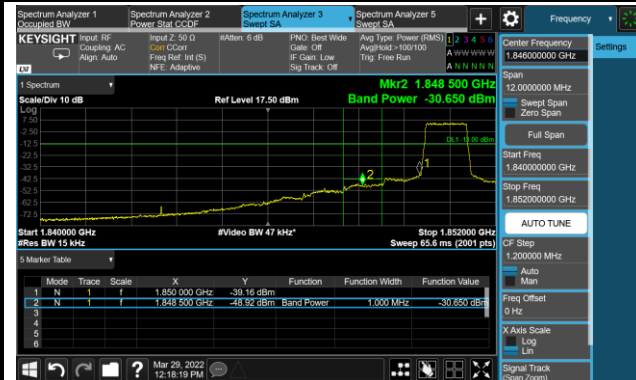


Upper Band Edge

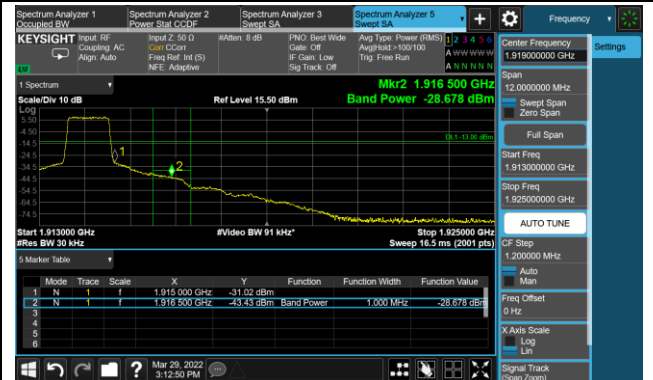


1.4MHz Channel Bandwidth – Full RB

Lower Band Edge

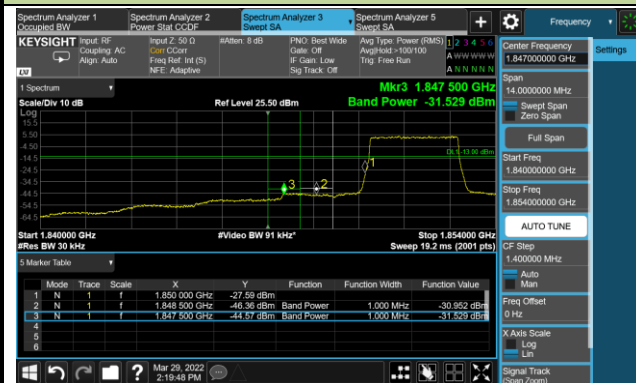


Upper Band Edge



3MHz Channel Bandwidth - Full RB

Lower Band Edge

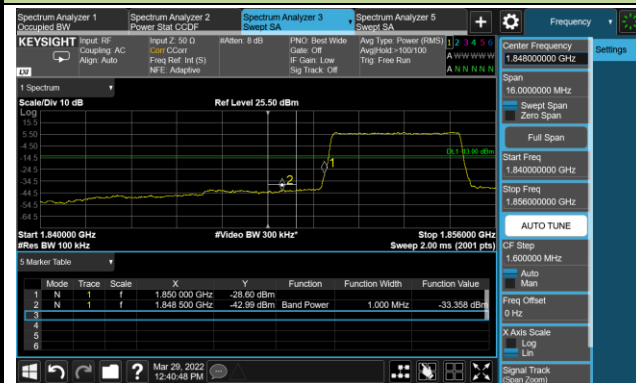


Upper Band Edge



5MHz Channel Bandwidth - Full RB

Lower Band Edge

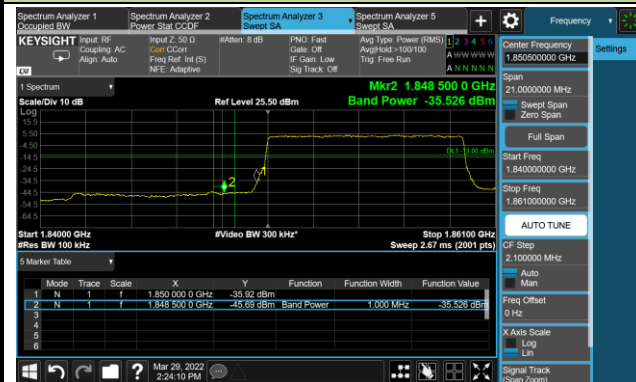


Upper Band Edge

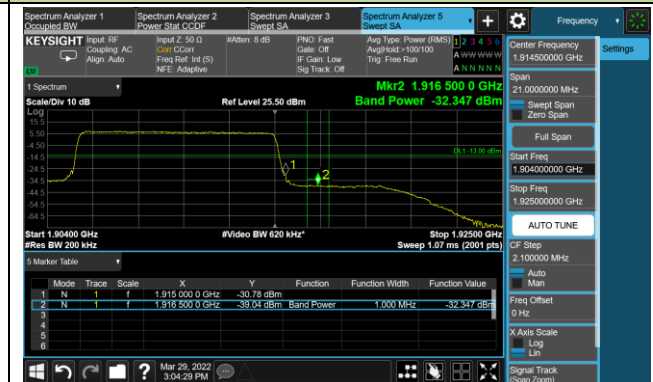


10MHz Channel Bandwidth - Full RB

Lower Band Edge

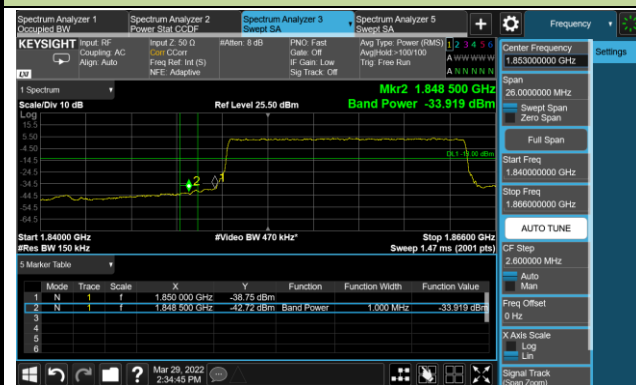


Upper Band Edge



15MHz Channel Bandwidth - Full RB

Lower Band Edge

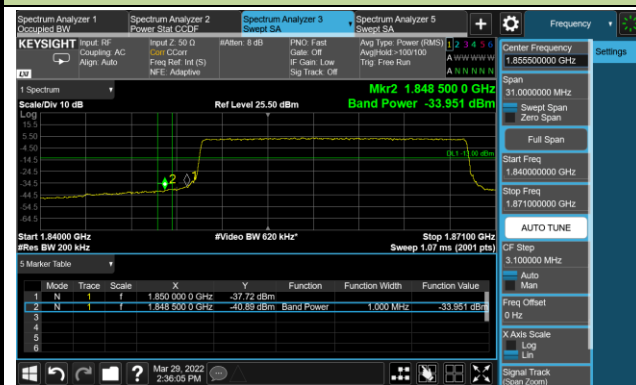


Upper Band Edge



20MHz Channel Bandwidth - Full RB

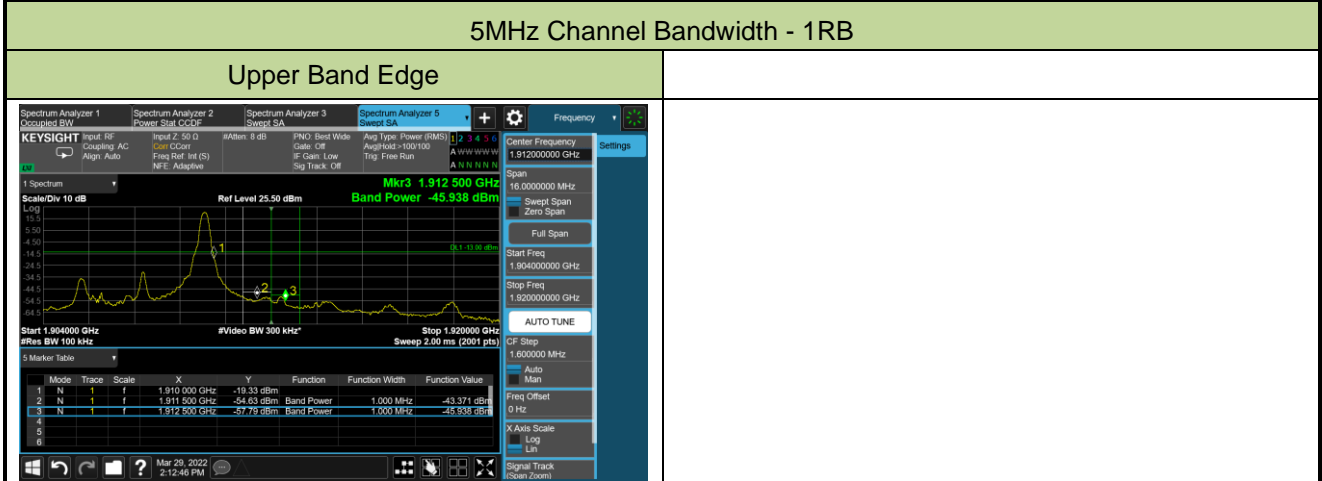
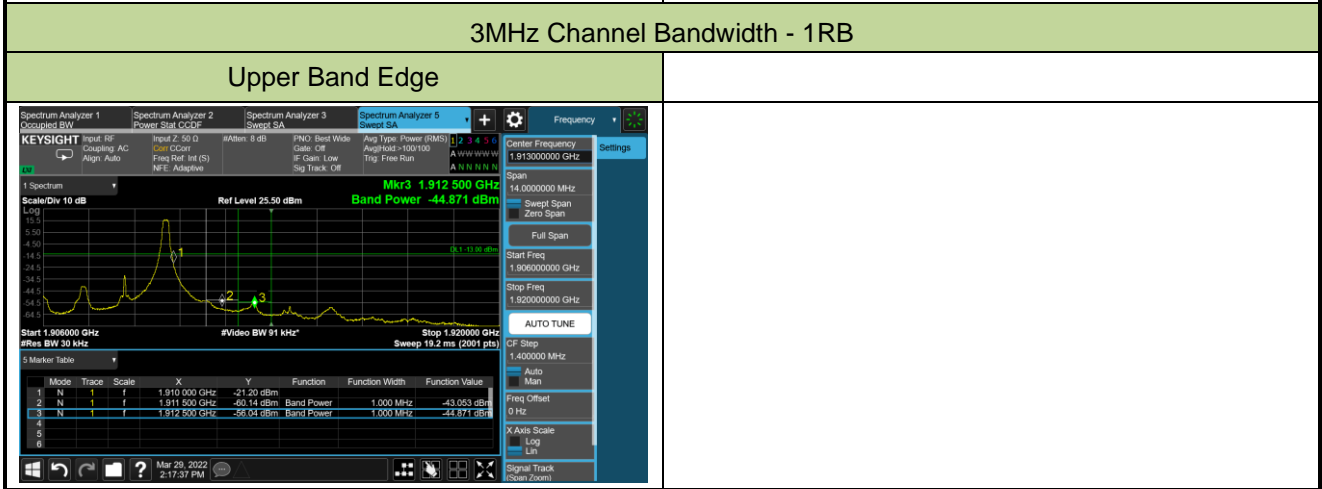
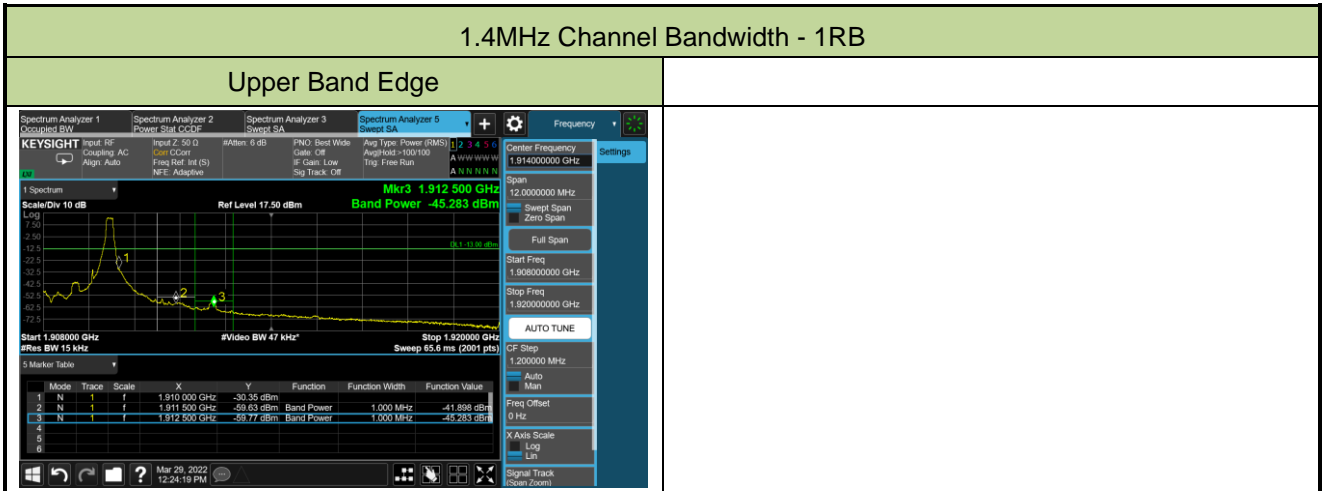
Lower Band Edge



Upper Band Edge

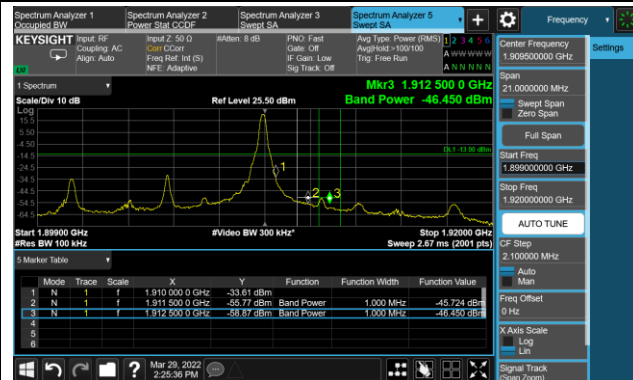


Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/04/01~2022/04/06	Test Band	LTE Band 2



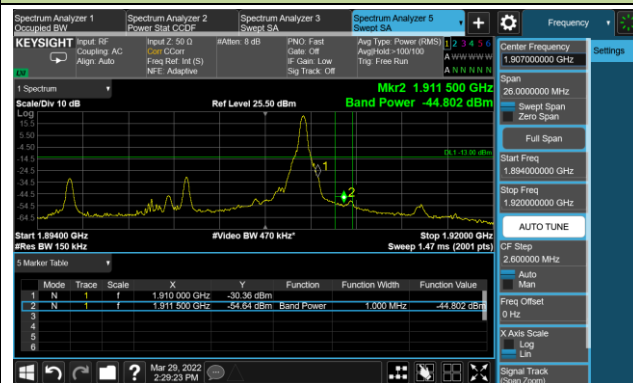
10MHz Channel Bandwidth - 1RB

Upper Band Edge



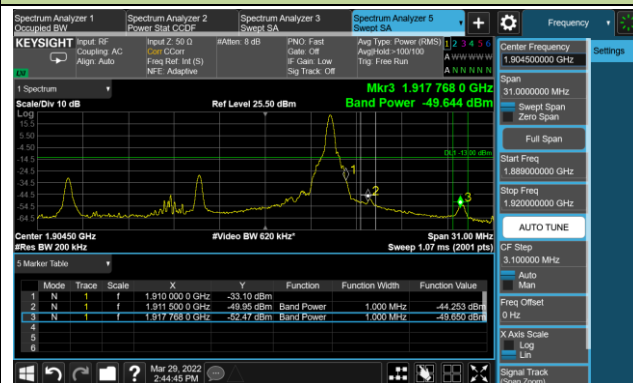
15MHz Channel Bandwidth - 1RB

Upper Band Edge



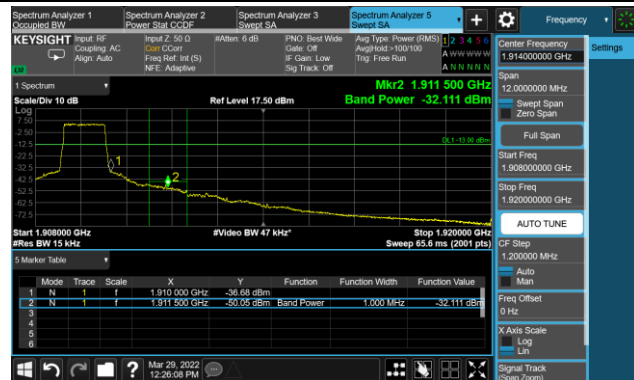
20MHz Channel Bandwidth - 1RB

Upper Band Edge



1.4MHz Channel Bandwidth - Full RB

Upper Band Edge



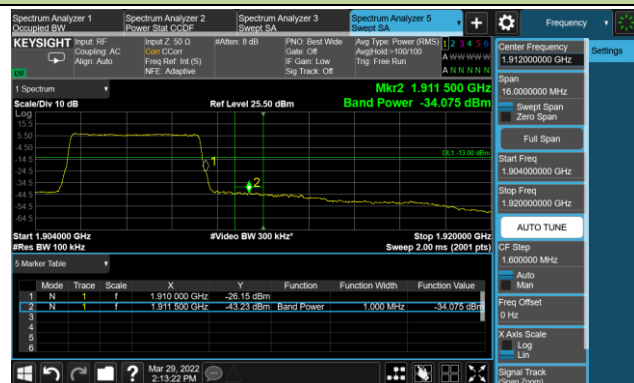
3MHz Channel Bandwidth - Full RB

Upper Band Edge



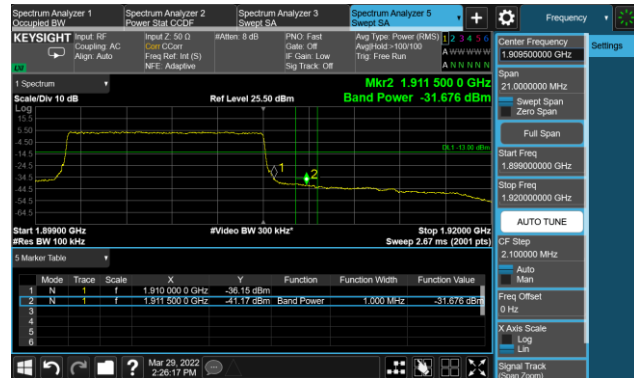
5MHz Channel Bandwidth - Full RB

Upper Band Edge



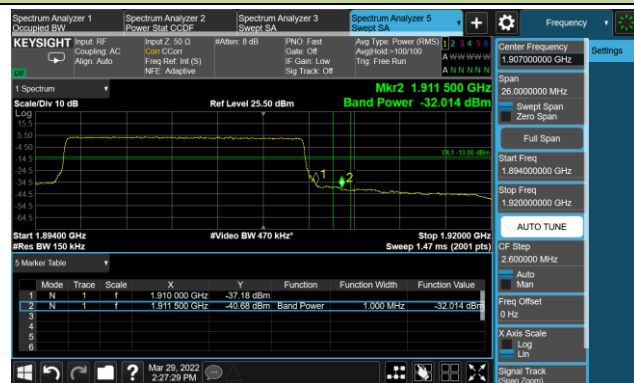
10MHz Channel Bandwidth - Full RB

Upper Band Edge



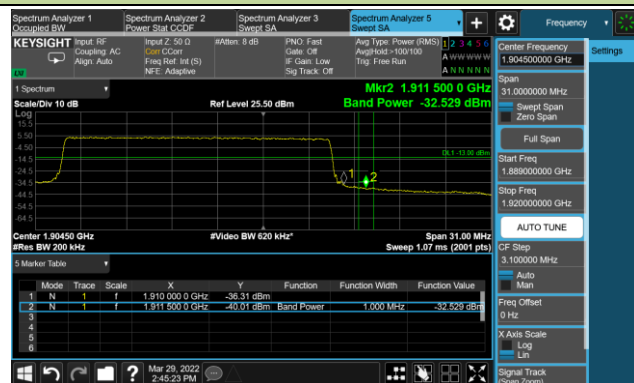
15MHz Channel Bandwidth - Full RB

Upper Band Edge

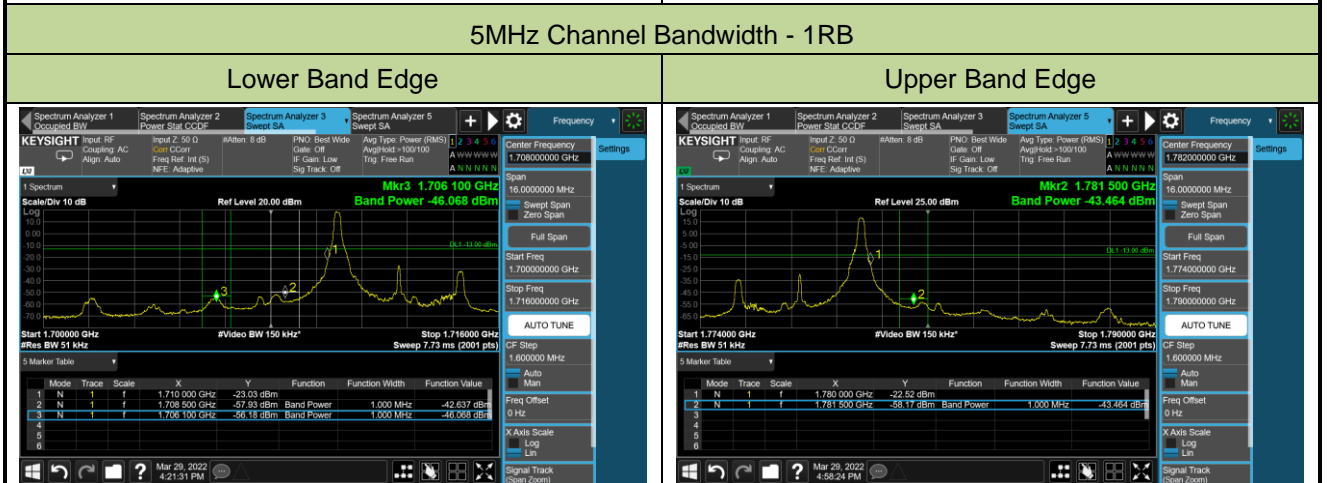
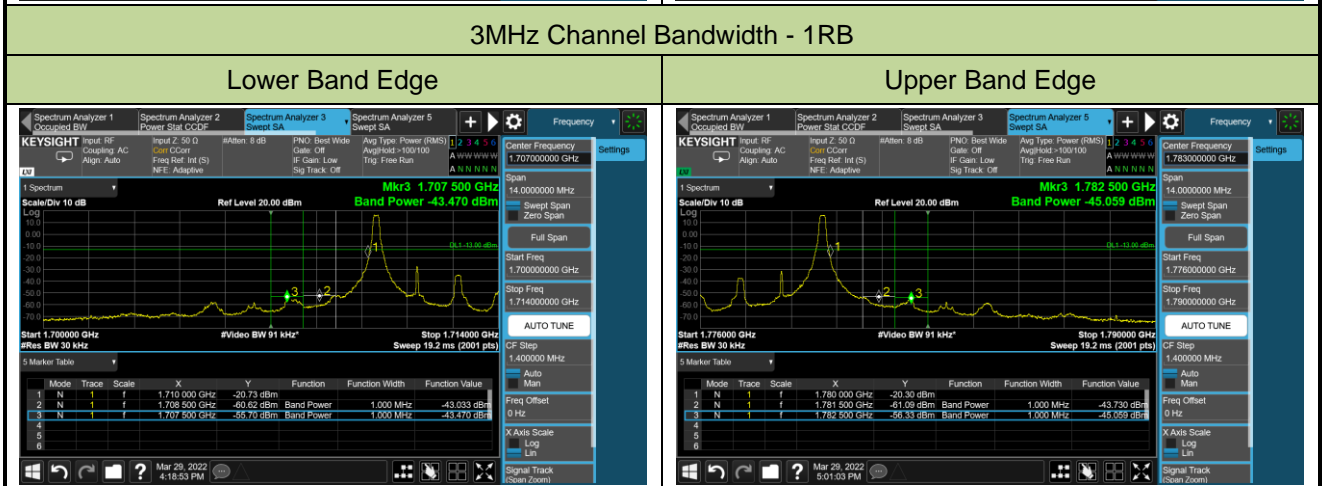
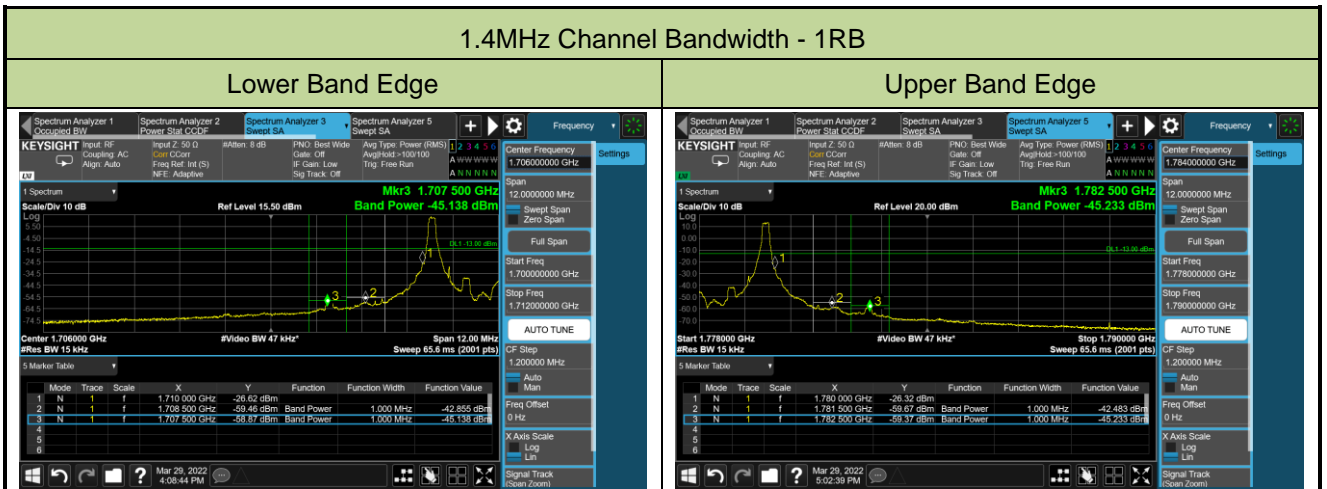


20MHz Channel Bandwidth - Full RB

Upper Band Edge

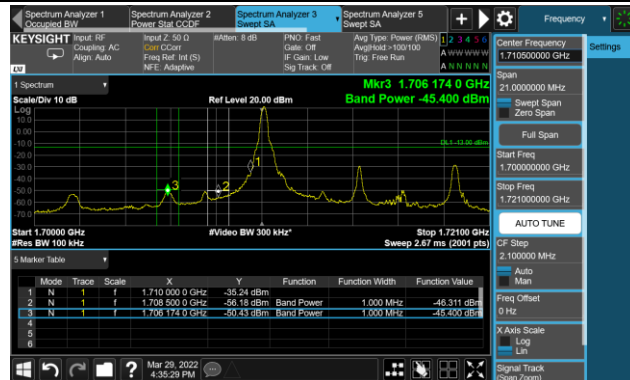


Test Site	WZ-SR6	Test Engineer	Cloud Guo
Test Date	2022/04/01~2022/04/06	Test Band	LTE Band 4/66

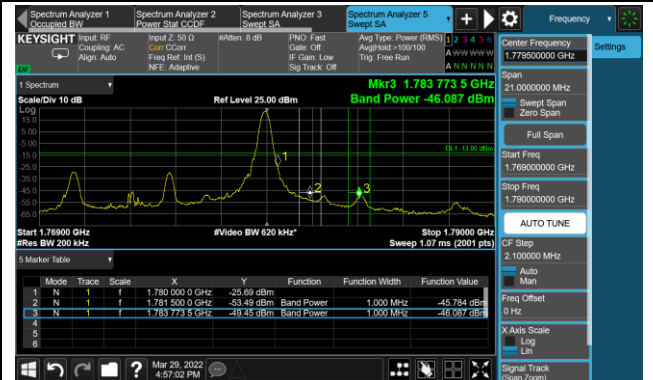


10MHz Channel Bandwidth - 1RB

Lower Band Edge

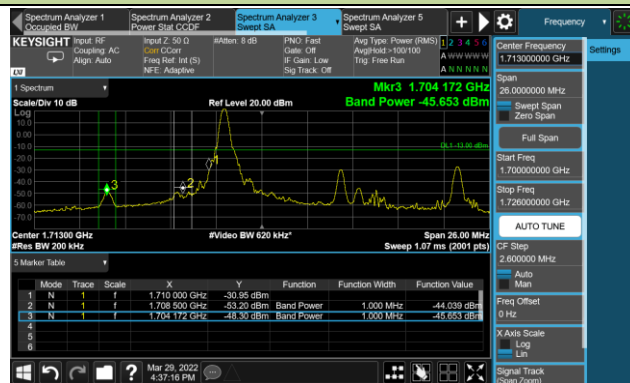


Upper Band Edge

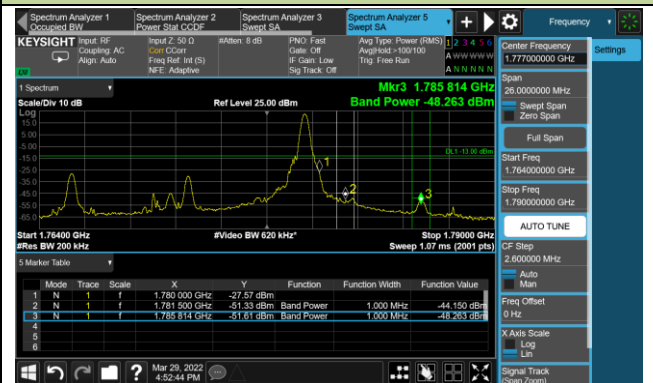


15MHz Channel Bandwidth - 1RB

Lower Band Edge

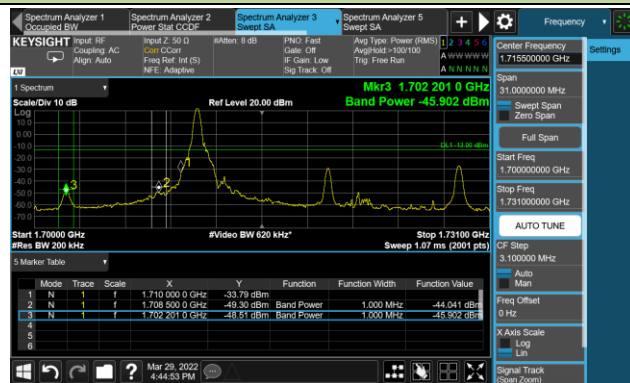


Upper Band Edge

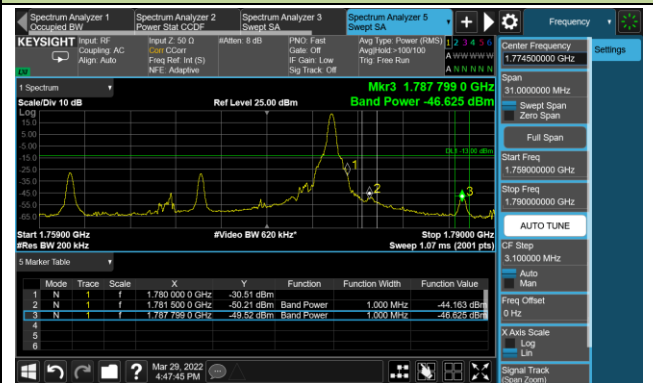


20MHz Channel Bandwidth - 1RB

Lower Band Edge

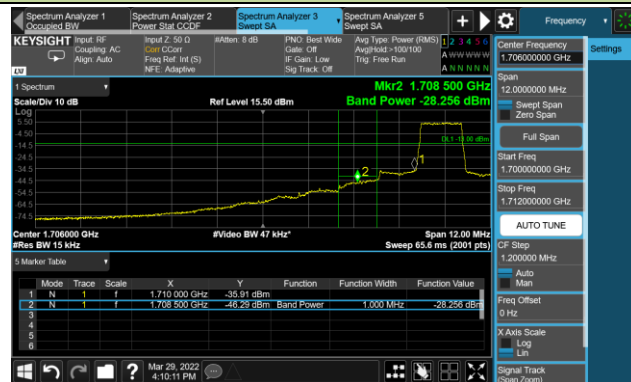


Upper Band Edge

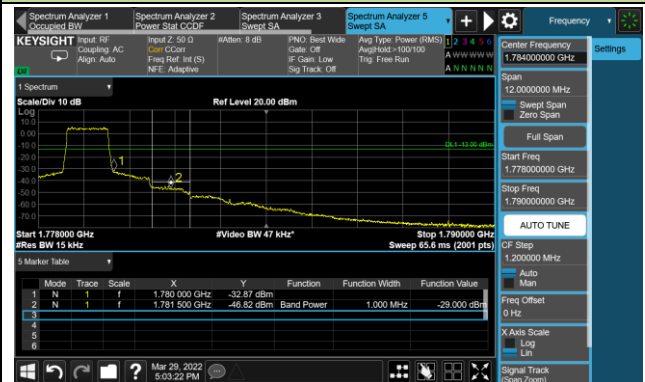


1.4MHz Channel Bandwidth – Full RB

Lower Band Edge

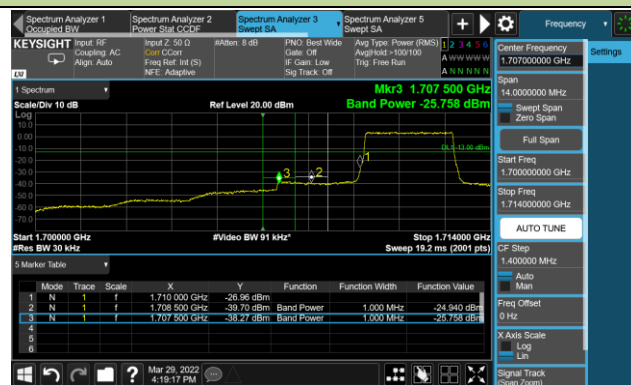


Upper Band Edge



3MHz Channel Bandwidth - Full RB

Lower Band Edge

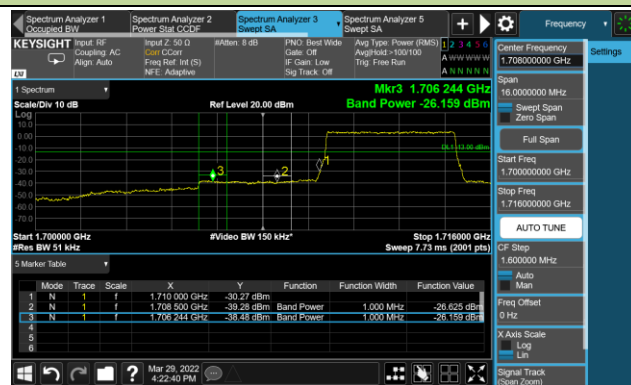


Upper Band Edge



5MHz Channel Bandwidth - Full RB

Lower Band Edge

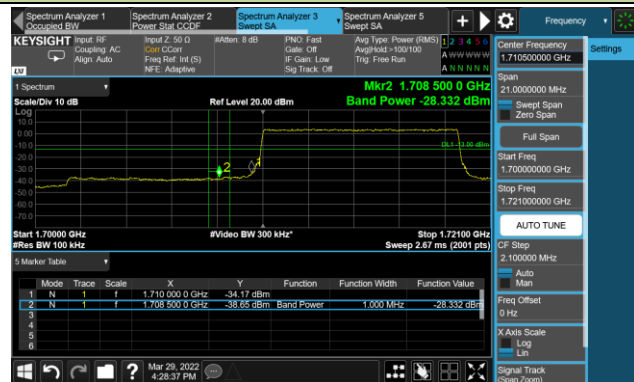


Upper Band Edge

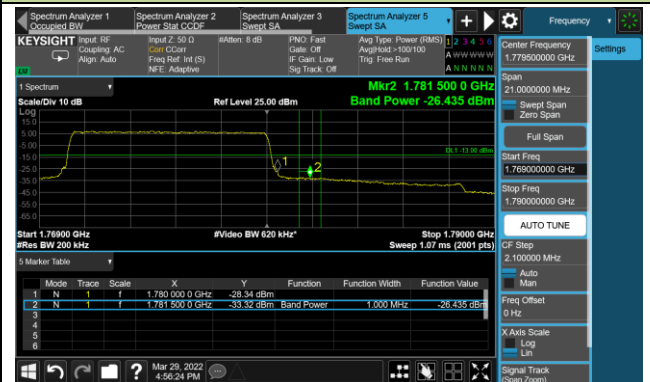


10MHz Channel Bandwidth - Full RB

Lower Band Edge

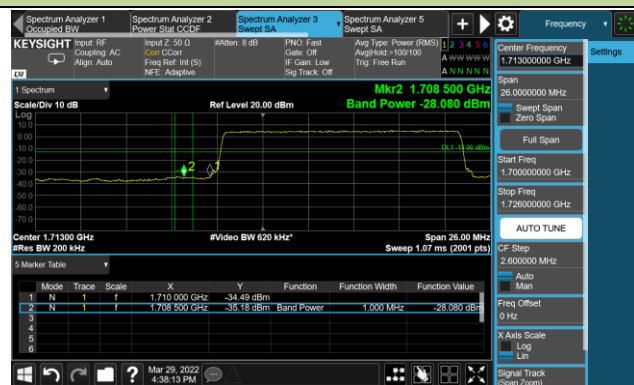


Upper Band Edge

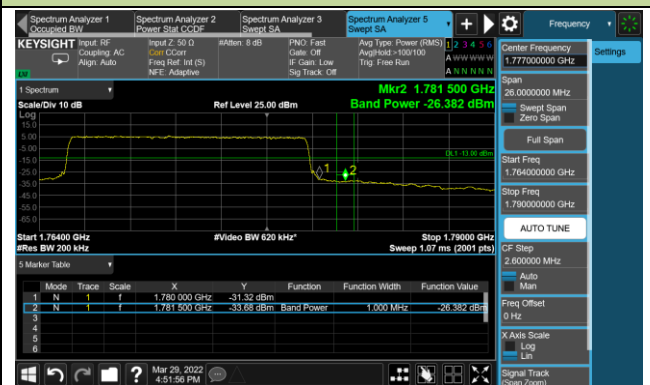


15MHz Channel Bandwidth - Full RB

Lower Band Edge

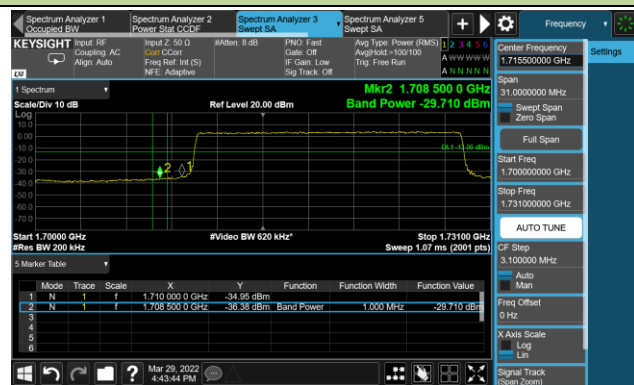


Upper Band Edge



20MHz Channel Bandwidth - Full RB

Lower Band Edge



Upper Band Edge

