

RF MEASUREMENT REPORT

FCC ID: U4GDL36LT
Application: Datalogic S.r.l.
Product: Barcode Reader
Model No.: DL36LT
Brand Name: DATALOGIC
FCC Rule Part(s): Part 90 Subpart S
Result: Complies
Test Date: 2022-09-10 ~ 2022-10-10

Reviewed By:

Jame Yuan

Approved By:

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
2209RSU001-U9	Rev. 01	Initial Report	2023-02-02	Valid

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1. General Information

1.1. Applicant

Datalogic S.r.l.

Via San Vitalino no.13, Calderara di Reno - 40012(BO) - Italy

1.2. Manufacturer

Datalogic S.r.l.

Via San Vitalino no.13, Calderara di Reno - 40012(BO) - Italy

1.3. Testing Facility

<input checked="" type="checkbox"/>	Test Site – MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Accreditations
	A2LA: 3628.01 CNAS: L10551
	FCC: CN1166 ISED: CN0001
	VCCI: <input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020
	<input type="checkbox"/> R-20141 <input type="checkbox"/> G-20134 <input type="checkbox"/> C-20103 <input type="checkbox"/> T-20104
<input type="checkbox"/>	Test Site – MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 CNAS: L10551
	FCC: CN1284 ISED: CN0105
<input type="checkbox"/>	Test Site – MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: L3261-190725
	FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	Barcode Reader
Model No.	DL36LT
Brand Name	DATALOGIC
IMEI	004403000215550
NFC Specification	13.56MHz
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Specification	v5.2 dual mode
GNSS Specification	GPS/GNSS/Beidou/Galileo/SBAS
WPT Specification	119-140kHz, WPT client type
Operating Temp.	-20 ~ 55°C
3GPP Specification	GSM 850/1900 WCDMA Band 2/4/5 LTE Band 2/4/5/7/12/13/17/25/26
Power Type	3.60 ~ 4.35Vdc, typical 3.8Vdc
Accessories	
AC Adapter	Model: S008ACM0500200 Input: 100-240V ~ 50/60Hz, 0.3A Output: 5V, 2A, 10W
Rechargeable Li-ion Battery	Model No.: BTDL36 Rated Voltage: 3.8V Rated Capacity: 3980mAh/15.1Wh Limited Charge Voltage: 4.35V
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. Radio Specification under test

FDD Tx Frequency Range	Band 26: 814 ~ 824 MHz
FDD Rx Frequency Range	Band 26: 859 ~ 869 MHz
Support Bandwidth	Band 26: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz
Modulation	UL & DL up to 64QAM
Power Class	3

Note 1: For other features of this EUT, test report will be issued separately.

Note 2: The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Note 3: 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	MaxPeak Gain (dBi)
LTE Band 2	1850 ~ 1910	PIFA	1.22
LTE Band 4	1710 ~ 1755		2.46
LTE Band 5	824 ~ 849		1.92
LTE Band 7	2500 ~ 2570		1.72
LTE Band 12	699 ~ 716		-0.24
LTE Band 13	777 ~ 787		-0.43
LTE Band 17	704~ 716		-0.24
LTE Band 25	1850 ~ 1915		1.22
LTE Band 26	814~849		1.92

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

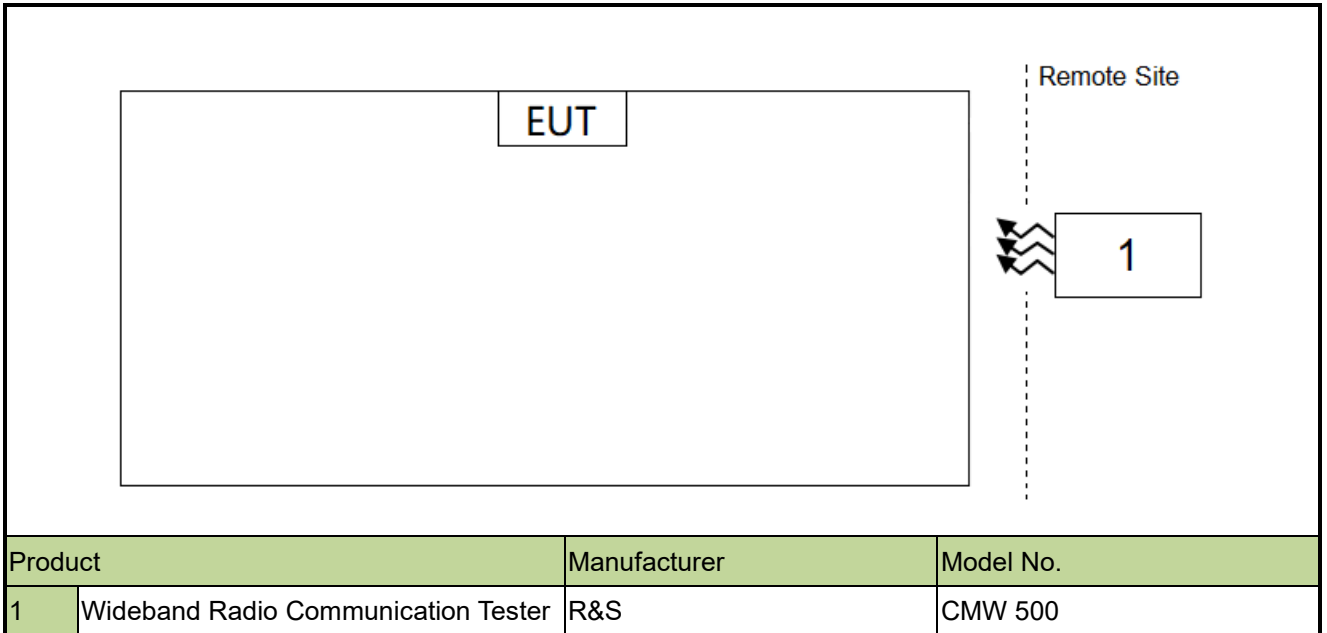
1.7. Test Methodology

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 90
- 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

2. Test Configuration

2.1. Test System Connection Diagram



2.2. Test Environment Condition

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

3. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Signal Analyzer	Keysight	N9010B	MRTSUE07028	1 year	2022-12-09	SIP-SR1
Signal Analyzer	Keysight	N9010B	MRTSUE06559	1 year	2023-06-01	SIP-SR1
Signal Analyzer	Keysight	N9010B	MRTSUE06603	1 year	2022-10-31	SIP-SR1
Communication Tester	R&S	CMW500	MRTSUE06243	1 year	2022-10-10	SIP-SR1
Signal Generator	Keysight	E8257D	MRTSUE06453	1 year	2023-06-01	SIP-SR1
Thermohygrometer	testo	622	MRTSUE06629	1 year	2023-01-06	SIP-SR1
5G Wireless Test Platform	Keysight	E7515B	MRTSUE06903	1 year	2022-11-23	SIP-SR1
Signal Generator	Keysight	E8257D	MRTSUE06904	1 year	2022-11-23	SIP-SR1
DC POWER MODULE	Keysight	N6743B	MRTSUE06905	N/A	N/A	SIP-SR1
DC POWER MODULE	Keysight	N6743B	MRTSUE06906	N/A	N/A	SIP-SR1
Common Interface Unit	Keysight	E7770A	MRTSUE06957	N/A	N/A	SIP-SR1
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2023-06-08	SIP-AC3
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2022-12-29	SIP-AC1/SIP-AC2/SIP-AC3
Signal Analyzer	Keysight	N9010B	MRTSUE06559	1 year	2023-06-01	SIP-AC1/SIP-AC2/SIP-AC3/ SIP-SR1
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06599	1 year	2022-10-20	SIP-AC1/SIP-AC3
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2022-10-11	SIP-AC1/SIP-AC2/SIP-AC3
Signal Analyzer	Keysight	N9010B	MRTSUE06603	1 year	2022-10-31	SIP-AC1/SIP-AC2/SIP-AC3/ SIP-SR1
Signal Analyzer	Keysight	N9020B	MRTSUE06604	1 year	2023-09-06	SIP-AC1/SIP-AC2/SIP-AC3/ SIP-SR1
Horn Antenna	R&S	HF907	MRTSUE06611	1 year	2023-07-30	SIP-AC3
EMI Test Receiver	R&S	ESR3	MRTSUE06613	1 year	2023-06-01	SIP-AC1/SIP-AC2/SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06619	1 year	2022-11-02	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06622	1 year	2022-11-28	SIP-AC3
Preamplifier	EMCI	EMC012645SE	MRTSUE06642	1 year	2023-01-13	SIP-AC3
Preamplifier	EMCI	EMC001330	MRTSUE06643	1 year	2023-01-13	SIP-AC1/SIP-AC2/SIP-AC3
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06646	1 year	2023-08-16	SIP-AC3
Anechoic Chamber	RIKEN	SIP-AC3	MRTSUE06782	1 year	2022-12-23	SIP-AC3
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2023-03-14	SIP-AC1/SIP-AC2/SIP-AC3
Directional Coupler	ar	DC7200A	MRTSUE06147	N/A	N/A	SIP
Directional Coupler	ar	DC6080A	MRTSUE06148	N/A	N/A	SIP-SR1
Directional Coupler	narda	4226-10	MRTSUE06564	1 year	2022-10-11	SIP-SR1
Directional Coupler	PULSAR	CS10-23-436/20	MRTSUE06846	1 year	2023-06-02	SIP-SR1
Directional Coupler	PULSAR	CS10-23-436/20	MRTSUE06848	1 year	2023-06-02	SIP-SR1

Attenuator	MVE	MVE2213	MRTSUE11055	1 year	2023-06-09	SIP-SR1
Attenuator	MVE	MVE2213	MRTSUE11056	1 year	2023-06-09	SIP-SR1
Attenuator	MVE	MVE2213	MRTSUE11057	1 year	2023-06-09	SIP-SR1
Attenuator	MVE	MVE2213	MRTSUE11058	1 year	2023-06-09	SIP-SR1
Attenuator	MVE	MVE2213	MRTSUE11059	1 year	2023-06-09	SIP-SR1
Attenuator	MVE	MVE2213	MRTSUE11060	1 year	2023-06-09	SIP-SR1

Software	Version	Function
EMI Software	V3.0.0	EMI Test Software
Controller_MF 7802BS	V1.02	RE Antenna & Turntable

4. Decision Rules and Measurement Uncertainty

4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.2. 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 $k = 2$.

Radiated Spurious Emissions
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): Horizontal: 9kHz ~ 300MHz: 5.04dB 300MHz ~ 1GHz: 4.95dB 1GHz ~ 40GHz: 6.40dB Vertical: 9kHz ~ 300MHz: 5.24dB 300MHz ~ 1GHz: 6.03dB 1GHz ~ 40GHz: 6.40dB
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
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.28%
Frequency Stability
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 76.2Hz

5. Test Result

5.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Verdict
2.1049	Occupied Bandwidth	Conducted	Pass
2.1055, 90.213	Frequency Stability		Pass
90.635	Conducted Output Power		Pass
2.1051, 90.691(a)	Band Edge		Pass
2.1051, 90.691(a)	Spurious Emission		Pass
2.1053, 90.691(a)	Spurious Emissions	Radiated	Pass

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 Frequency Stability, Channel Band Edge, Radiated & Conducted Spurious Emission were presented worst-case in the test report.

5.2. Occupied Bandwidth Measurement

5.2.1. Test Limit

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 percent of the total mean power radiated by a given emission shall be measured.

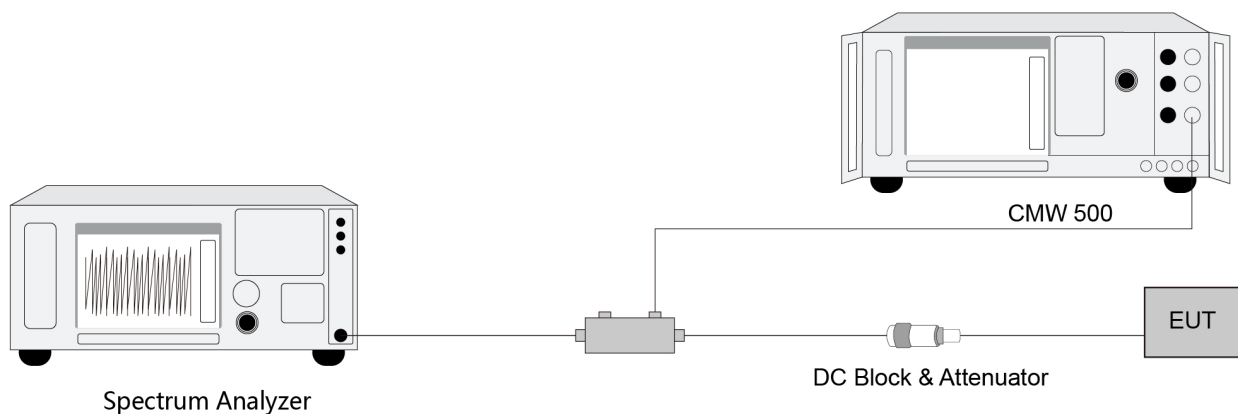
5.2.2. Test Procedure

ANSI C63.26-2015 - Section 5.4

5.2.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency
2. RBW = The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

5.2.4. Test Setup



5.2.5. Test Result

Refer to Appendix A.1.

5.3. Frequency Stability Measurement

5.3.1. Test Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

5.3.2. Test Procedure

ANSI C63.26-2015 - Section 5.6

5.3.3. Test Setting

Frequency Stability Under Temperature Variations:

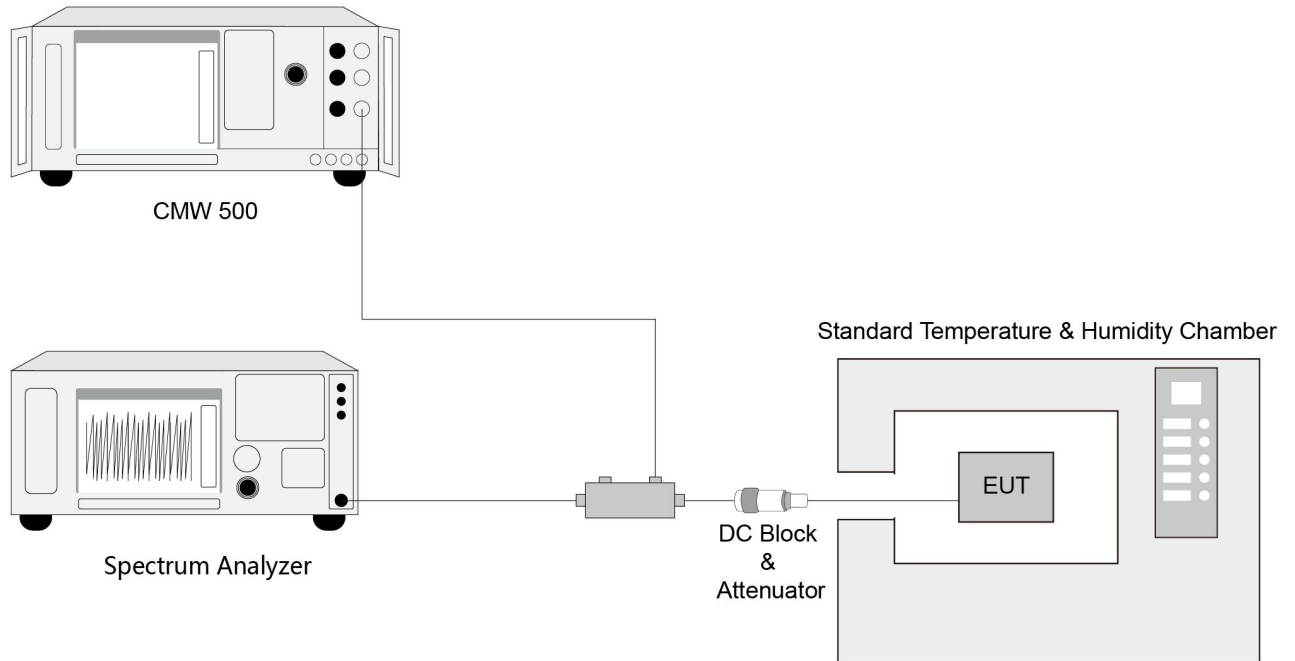
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

5.3.4. Test Setup



5.3.5. Test Result

Refer to Appendix A.2.

5.4. Conducted Output Power Measurement

5.4.1. Test Limit

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

5.4.2. Test Procedure

ANSI C63.26-2015 - Section 5.2

5.4.3. 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.

5.4.4. Test Setup



5.4.5. Test Result

Refer to Appendix A.3.

5.5. Band Edge Measurement

5.5.1. Test Limit

Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{ Log}(f/6.1)$ decibels or $50 + 10 \text{ Log}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \text{ Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

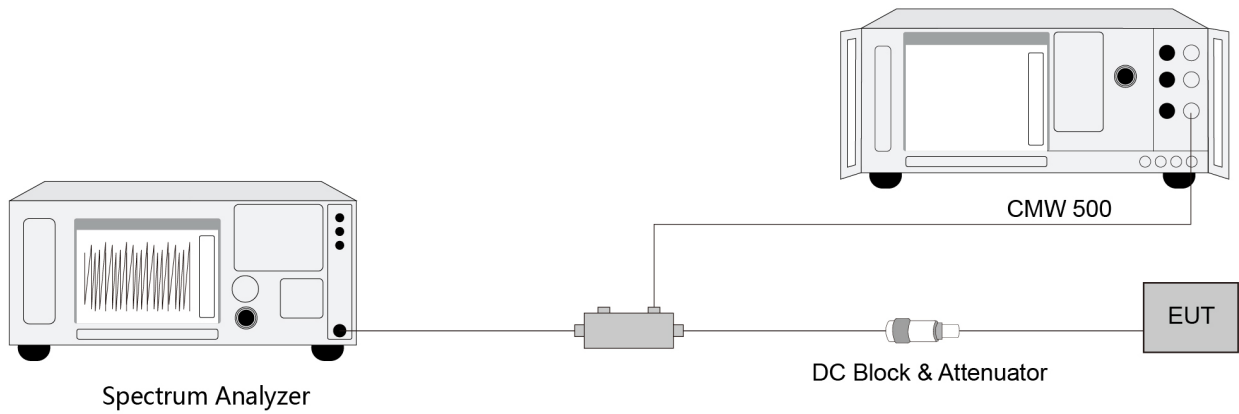
5.5.2. Test Procedure

ANSI C63.26-2015 - Section 5.7

5.5.3. 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.

5.5.4. Test Setup



5.5.5. Test Result

Refer to Appendix A.4.

5.6. Conducted Spurious Emissions Measurement

5.6.1. 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.

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.

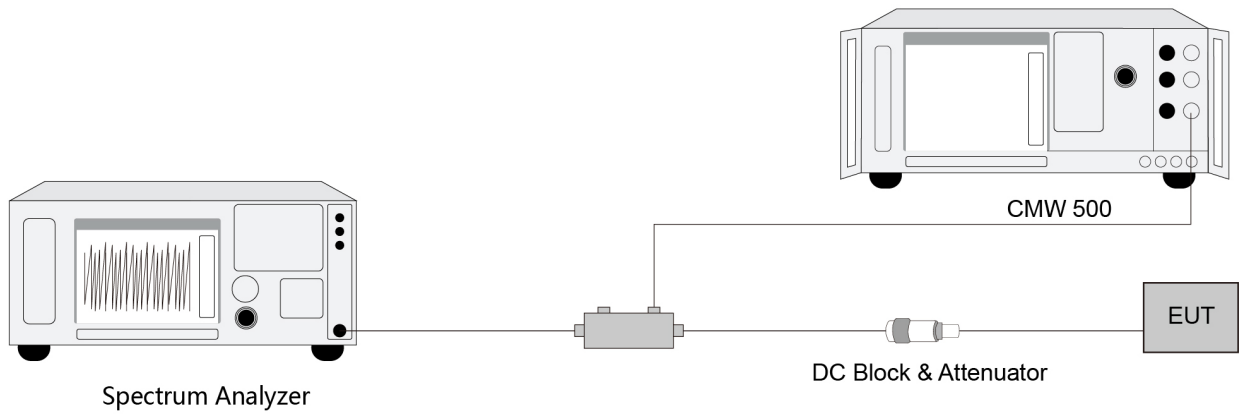
5.6.2. Test Procedure

ANSI C63.26-2015 - Section 5.7

5.6.3. Test Setting

1. Set the analyzer frequency to low, mid, high channel.
2. RBW = 1MHz
3. VBW $\geq 3 \times$ 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.

5.6.4. Test Setup



5.6.5. Test Result

Refer to Appendix A.5.

5.7. Radiated Spurious Emissions Measurement

5.7.1. Test Limit

Out of band emissions: The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

E (dB μ V/m) = EIRP (dBm) - $20 \log D$ + 104.8; where D is the measurement distance in meters. The emission limit equal to 82.3dB μ V/m.

5.7.2. Test Procedure

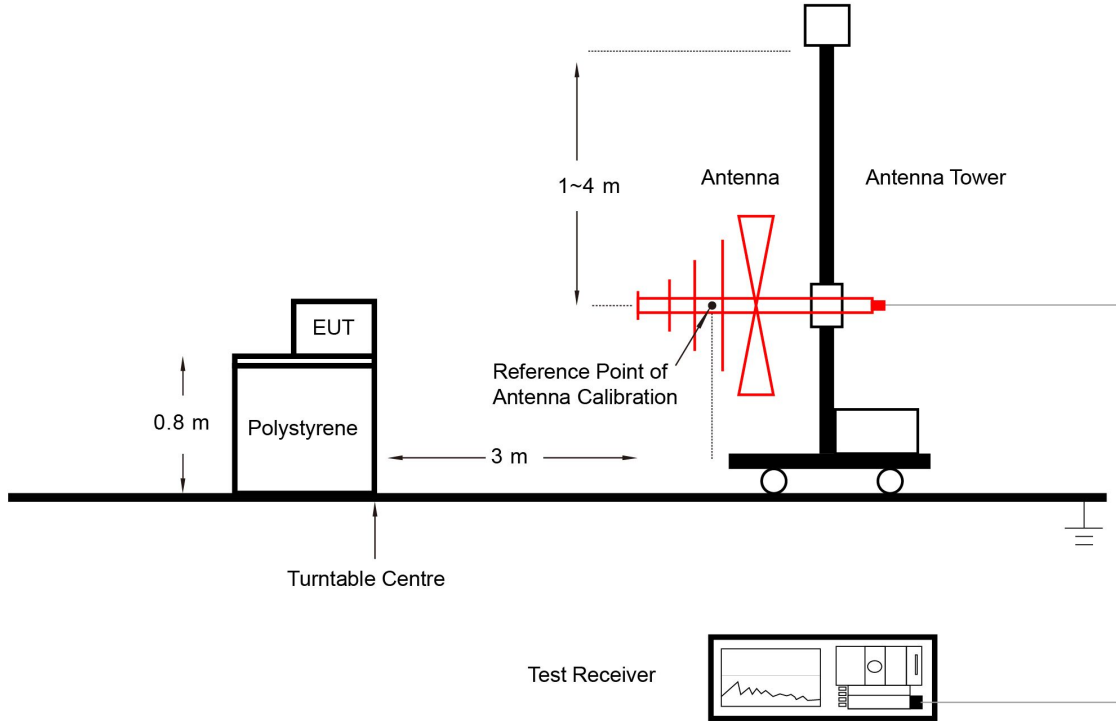
ANSI C63.26-2015 - Section 5.2.7 & 5.5

5.7.3. Test Setting

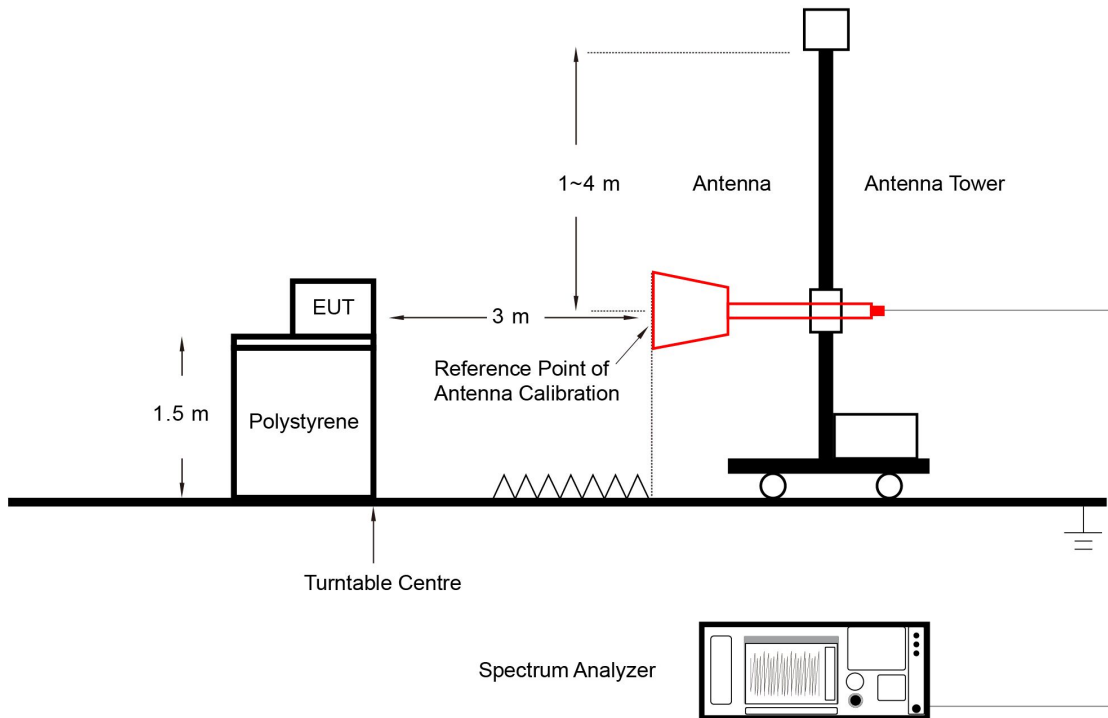
1. RBW = 1MHz
2. VBW $\geq 3 \times$ RBW
3. Sweep time $\geq 10 \times$ (number of points in sweep) \times (transmission symbol period)
4. Detector = Peak
5. Trace mode = max hold
6. The trace was allowed to stabilize

5.7.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



5.7.5. Test Result

Refer to Appendix A.6.

Appendix A - Test Result

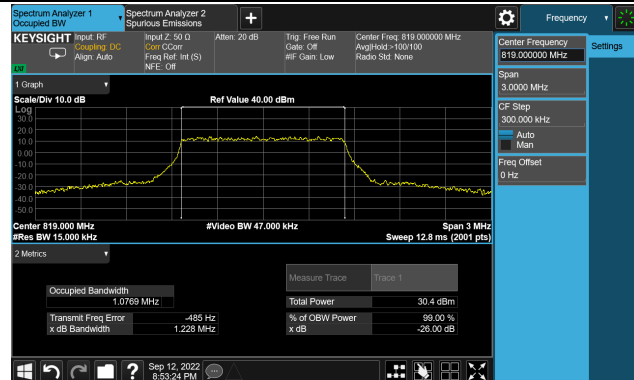
A.1 Occupied Bandwidth Test Result

Test Site	SIP-SR1	Test Engineer	Allen Zou
Test Date	2022/09/12 ~ 2022/09/22	Test Band	LTE Band 26

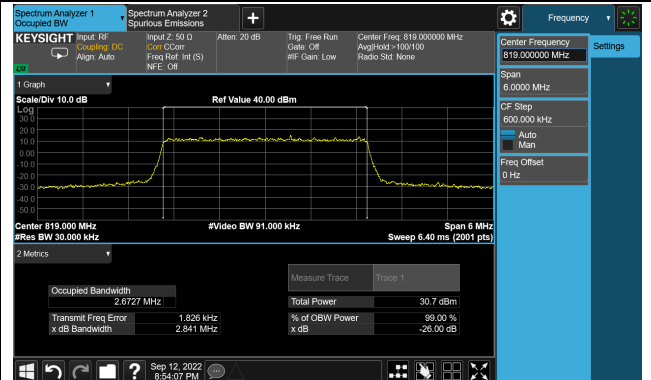
Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	819.0	1.4	1.08
		3	2.67
		5	4.48
		10	8.95
16QAM	819.0	1.4	1.08
		3	2.67
		5	4.46
		10	8.95
64QAM	819.0	1.4	1.08
		3	2.68
		5	4.46
		10	8.94
QPSK	821.5	15	13.43
16QAM			13.43
64QAM			13.37

99% Bandwidth - QPSK

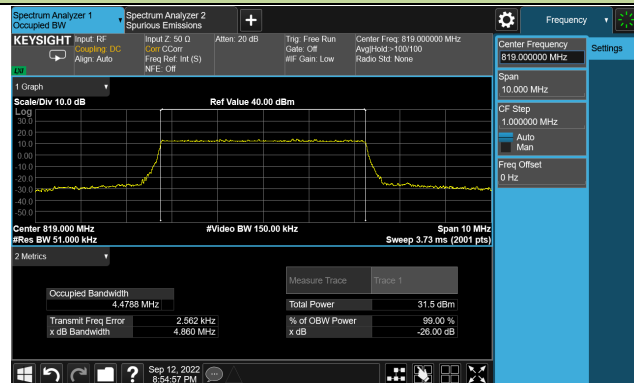
1.4MHz Channel Bandwidth



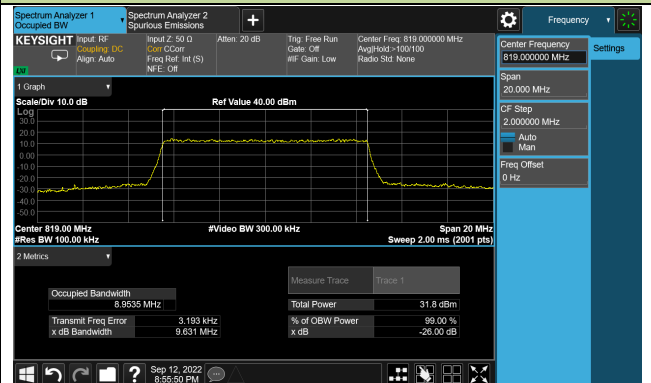
3MHz Channel Bandwidth



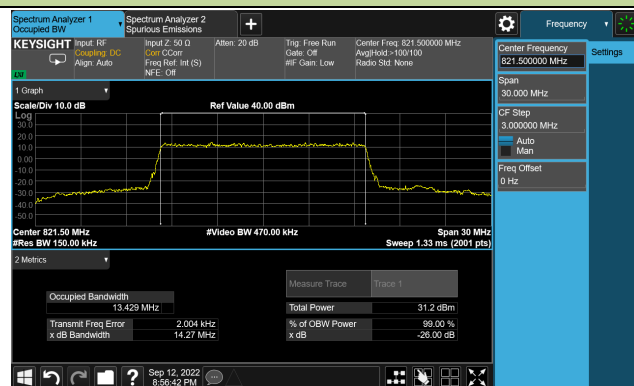
5MHz Channel Bandwidth



10MHz Channel Bandwidth

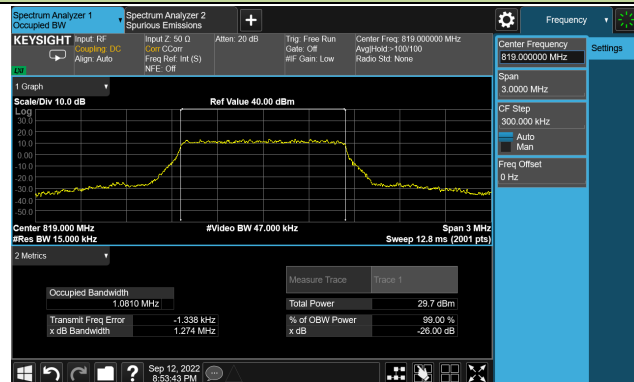


15MHz Channel Bandwidth

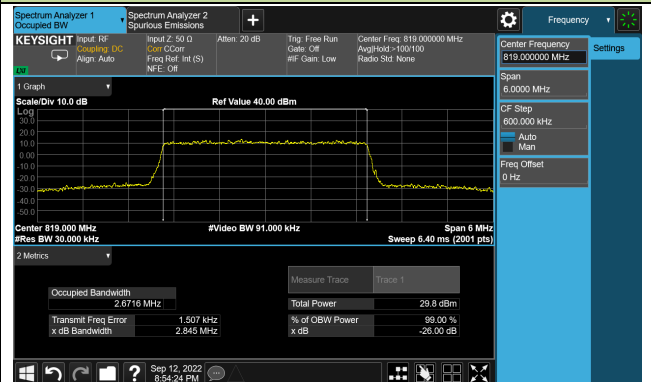


99% Bandwidth - 16QAM

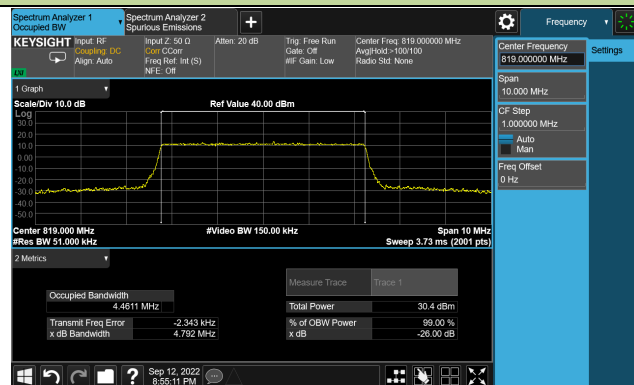
1.4MHz Channel Bandwidth



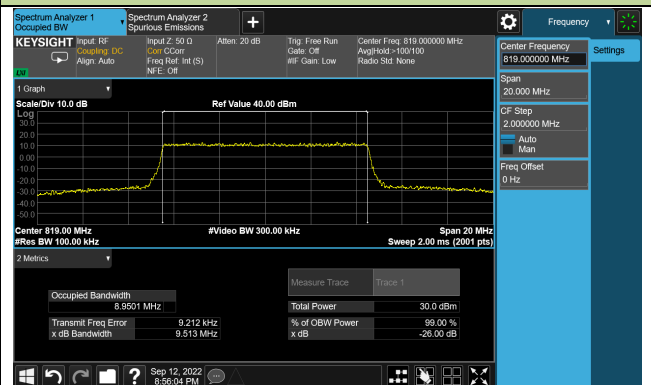
3MHz Channel Bandwidth



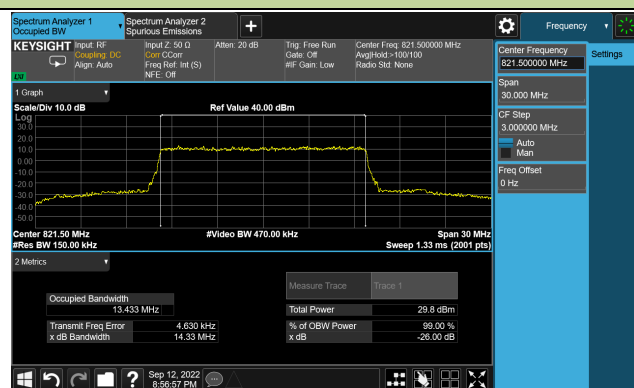
5MHz Channel Bandwidth



10MHz Channel Bandwidth

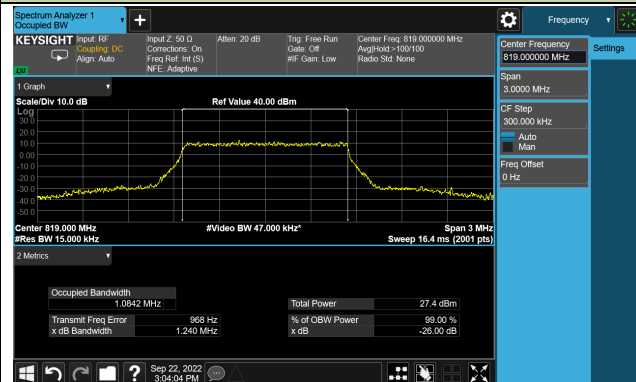


15MHz Channel Bandwidth



99% Bandwidth - 64QAM

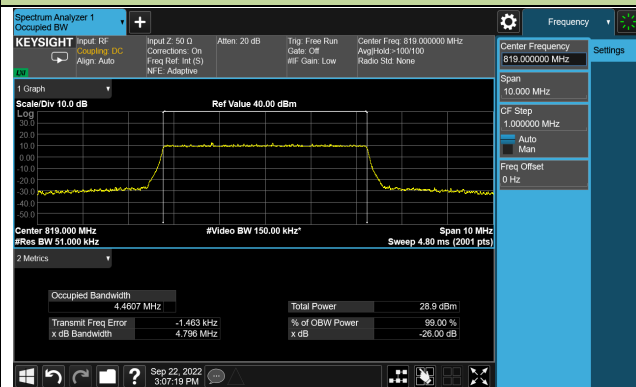
1.4MHz Channel Bandwidth



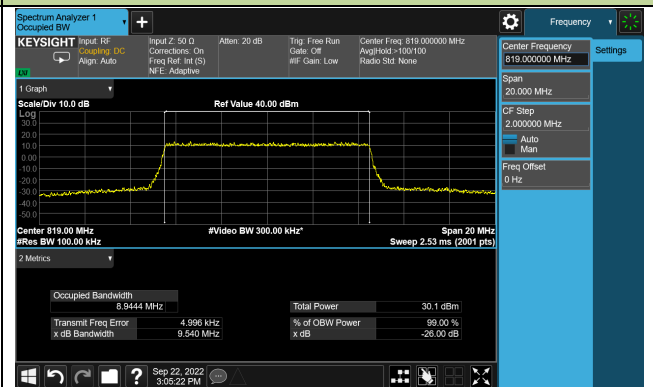
3MHz Channel Bandwidth



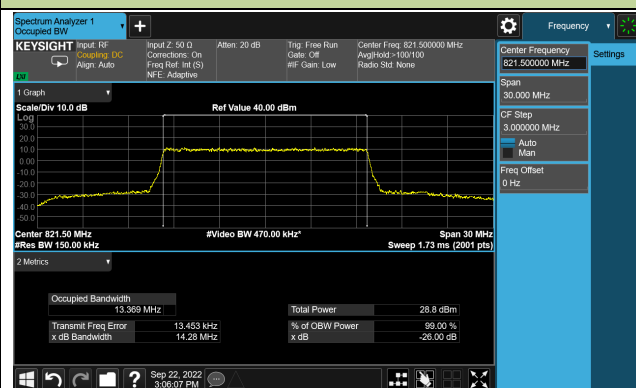
5MHz Channel Bandwidth



10MHz Channel Bandwidth



15MHz Channel Bandwidth



A.2 Frequency Stability Test Result

Test Site	SIP-SR1	Test Engineer	Allen Zou
Test Date	2022/09/14	Test Band	LTE Band 26

Power (Vdc)	Temp. (°C)	Frequency Tolerance (ppm)
3.80	- 30	-0.0006
	- 20	-0.0005
	- 10	0.0002
	0	0.0025
	+ 10	0.0024
	+ 20 (Ref)	0.0000
	+ 30	-0.0002
	+ 40	-0.0031
	+ 50	-0.0186
4.35	+ 20	0.0016
3.60	+ 20	0.0005

Note: 3.60Vdc is the battery end point.

A.3 Conducted Output Power Test Result

Test Site	SIP-SR1	Test Engineer	Allen Zou
Test Date	2022/09/15	Test Band	LTE Band 26

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	Output Power (W)	Limit (W)
QPSK						
814.7	1.4	1	0	22.83	0.1919	< 100
819.0				22.86	0.1932	< 100
823.3				22.86	0.1932	< 100
814.7	1.4	1	2	23.06	0.2023	< 100
819.0				23.02	0.2004	< 100
823.3				23.04	0.2014	< 100
814.7	1.4	1	6	22.85	0.1928	< 100
819.0				22.78	0.1897	< 100
823.3				22.92	0.1959	< 100
814.7	1.4	6	0	21.88	0.1542	< 100
819.0				21.87	0.1538	< 100
823.3				21.96	0.1570	< 100
815.5	3	1	0	22.86	0.1932	< 100
819.0				22.85	0.1928	< 100
822.5				22.96	0.1977	< 100
815.5	3	1	7	22.87	0.1936	< 100
819.0				22.82	0.1914	< 100
822.5				22.95	0.1972	< 100
815.5	3	1	14	22.85	0.1928	< 100
819.0				22.90	0.1950	< 100
822.5				22.87	0.1936	< 100
815.5	3	15	0	21.88	0.1542	< 100
819.0				21.91	0.1552	< 100
822.5				21.92	0.1556	< 100

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	Output Power (W)	Limit (W)
QPSK						
816.5	5	1	0	22.81	0.1910	< 100
819.0				22.78	0.1897	< 100
821.5				22.77	0.1892	< 100
816.5	5	1	12	22.87	0.1936	< 100
819.0				22.92	0.1959	< 100
821.5				22.98	0.1986	< 100
816.5	5	1	24	22.80	0.1905	< 100
819.0				22.89	0.1945	< 100
821.5				22.82	0.1914	< 100
816.5	5	25	0	21.89	0.1545	< 100
819.0				21.92	0.1556	< 100
821.5				21.94	0.1563	< 100
819.0	10	1	0	22.85	0.1928	< 100
		1	24	23.01	0.2000	< 100
		1	49	22.85	0.1928	< 100
		50	0	21.96	0.1570	< 100
821.5	15	1	0	22.81	0.1910	< 100
		1	36	22.93	0.1963	< 100
		1	74	22.80	0.1905	< 100
		75	0	21.98	0.1578	< 100

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	Output Power (W)	Limit (W)
16QAM						
814.7	1.4	1	0	22.04	0.1600	< 100
819.0				21.88	0.1542	< 100
823.3				21.91	0.1552	< 100
814.7	1.4	1	2	22.17	0.1648	< 100
819.0				22.23	0.1671	< 100
823.3				22.07	0.1611	< 100
814.7	1.4	1	6	21.94	0.1563	< 100
819.0				21.87	0.1538	< 100
823.3				22.01	0.1589	< 100
814.7	1.4	6	0	21.00	0.1259	< 100
819.0				20.91	0.1233	< 100
823.3				21.04	0.1271	< 100
815.5	3	1	0	22.08	0.1614	< 100
819.0				22.49	0.1774	< 100
822.5				22.04	0.1600	< 100
815.5	3	1	7	22.02	0.1592	< 100
819.0				22.47	0.1766	< 100
822.5				21.99	0.1581	< 100
815.5	3	1	14	21.96	0.1570	< 100
819.0				21.96	0.1570	< 100
822.5				22.48	0.1770	< 100
815.5	3	15	0	21.03	0.1268	< 100
819.0				20.98	0.1253	< 100
822.5				21.17	0.1309	< 100

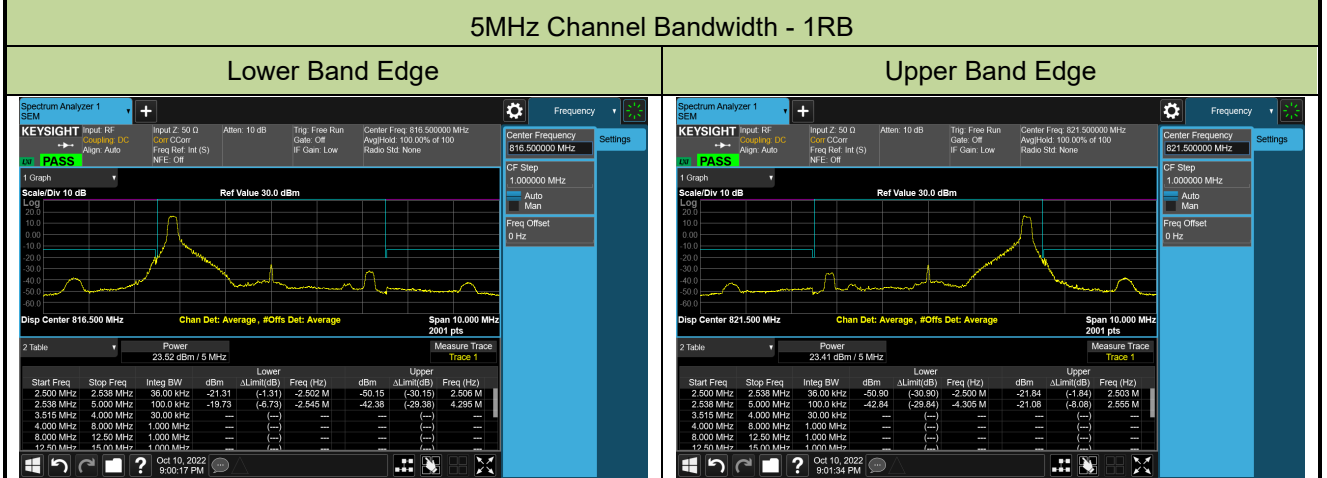
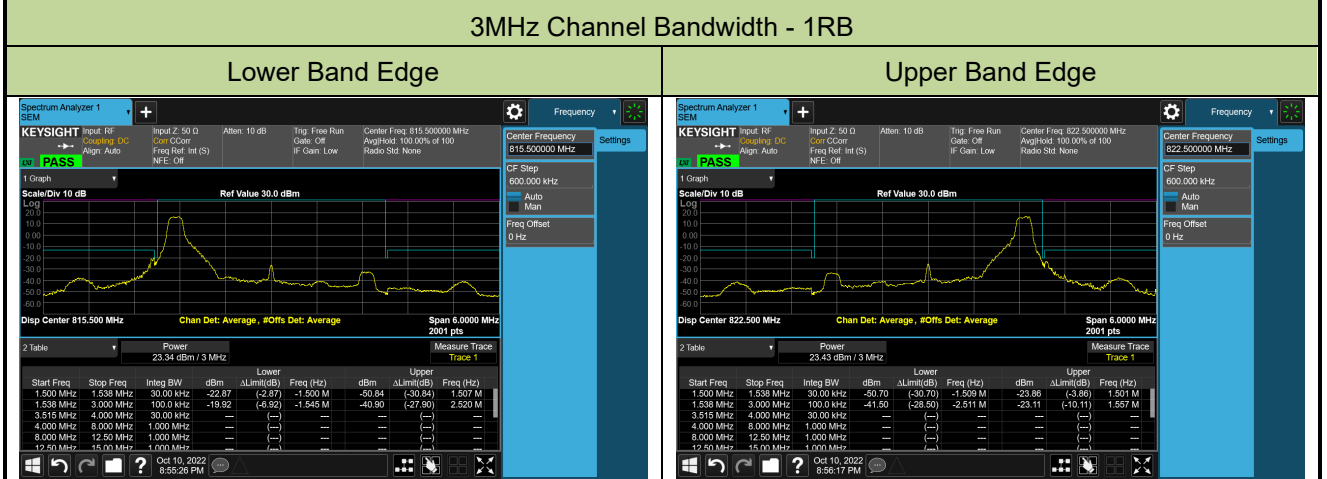
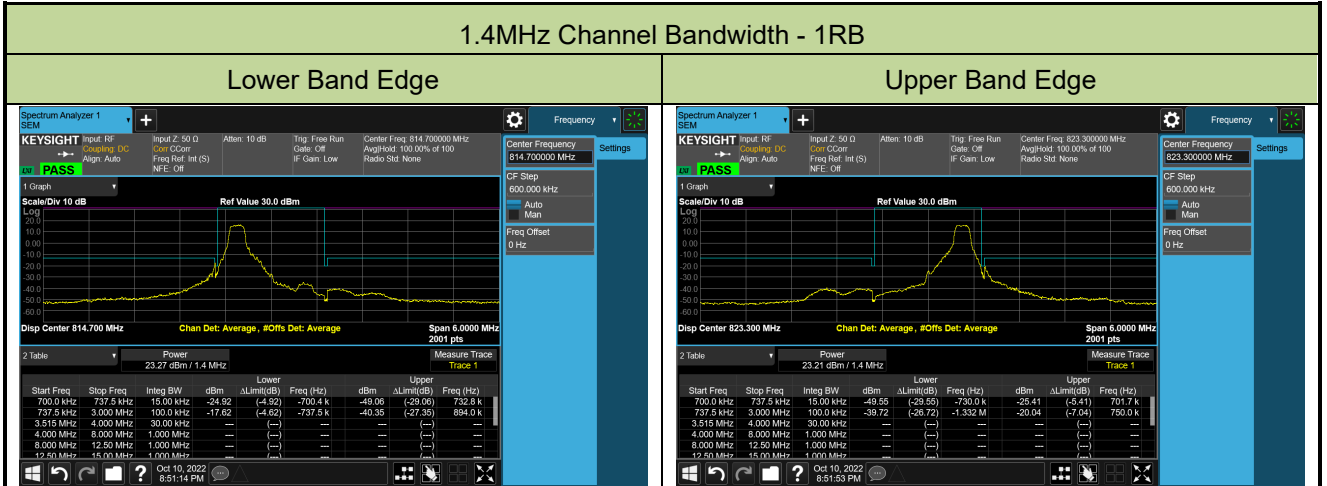
Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	Output Power (W)	Limit (W)
16QAM						
816.5	5	1	0	22.06	0.1607	< 100
819.0				21.66	0.1466	< 100
821.5				21.92	0.1556	< 100
816.5	5	1	12	22.18	0.1652	< 100
819.0				21.79	0.1510	< 100
821.5				22.08	0.1614	< 100
816.5	5	1	24	22.07	0.1611	< 100
819.0				21.96	0.1570	< 100
821.5				21.71	0.1483	< 100
816.5	5	25	0	20.97	0.1250	< 100
819.0				20.98	0.1253	< 100
821.5				21.08	0.1282	< 100
819.0	10	1	0	22.41	0.1742	< 100
		1	24	22.64	0.1837	< 100
		1	49	22.47	0.1766	< 100
		50	0	21.05	0.1274	< 100
821.5	15	1	0	22.22	0.1667	< 100
		1	36	22.38	0.1730	< 100
		1	74	22.29	0.1694	< 100
		75	0	21.03	0.1268	< 100

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	Output Power (W)	Limit (W)
64QAM						
814.7	1.4	1	0	21.41	0.1384	< 100
819.0				21.18	0.1312	< 100
823.3				21.09	0.1285	< 100
814.7	1.4	1	2	21.32	0.1355	< 100
819.0				21.63	0.1455	< 100
823.3				21.21	0.1321	< 100
814.7	1.4	1	6	21.06	0.1276	< 100
819.0				21.14	0.1300	< 100
823.3				21.41	0.1384	< 100
814.7	1.4	6	0	20.26	0.1062	< 100
819.0				20.31	0.1074	< 100
823.3				20.19	0.1045	< 100
815.5	3	1	0	21.17	0.1309	< 100
819.0				21.26	0.1337	< 100
822.5				21.19	0.1315	< 100
815.5	3	1	7	21.19	0.1315	< 100
819.0				21.09	0.1285	< 100
822.5				21.26	0.1337	< 100
815.5	3	1	14	20.97	0.1250	< 100
819.0				21.22	0.1324	< 100
822.5				21.27	0.1340	< 100
815.5	3	15	0	20.31	0.1074	< 100
819.0				20.20	0.1047	< 100
822.5				20.17	0.1040	< 100

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	Output Power (W)	Limit (W)
64QAM						
816.5	5	1	0	21.19	0.1315	< 100
819.0				21.05	0.1274	< 100
821.5				21.34	0.1361	< 100
816.5	5	1	12	21.31	0.1352	< 100
819.0				21.18	0.1312	< 100
821.5				21.51	0.1416	< 100
816.5	5	1	24	21.24	0.1330	< 100
819.0				21.39	0.1377	< 100
821.5				21.11	0.1291	< 100
816.5	5	25	0	20.14	0.1033	< 100
819.0				20.27	0.1064	< 100
821.5				20.22	0.1052	< 100
819.0	10	1	0	21.22	0.1324	< 100
		1	24	21.38	0.1374	< 100
		1	49	21.26	0.1337	< 100
		50	0	20.28	0.1067	< 100
821.5	15	1	0	21.13	0.1297	< 100
		1	36	21.34	0.1361	< 100
		1	74	21.18	0.1312	< 100
		75	0	20.16	0.1038	< 100

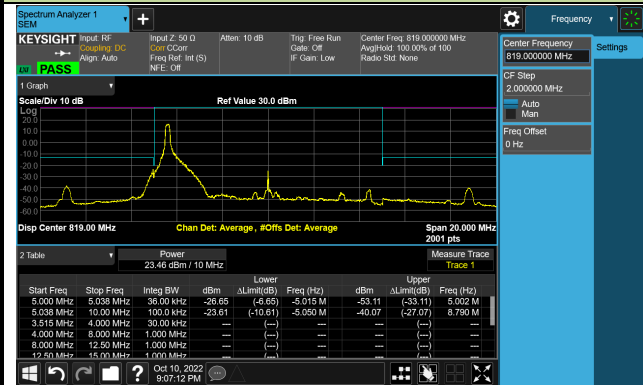
A.4 Band Edge Test Result

Test Site	SIP-SR1	Test Engineer	Allen Zou
Test Date	2022/10/10	Test Band	LTE Band 26

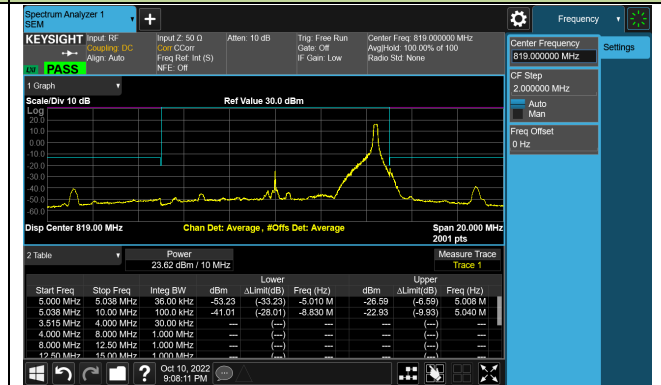


10MHz Channel Bandwidth - 1RB

Lower Band Edge

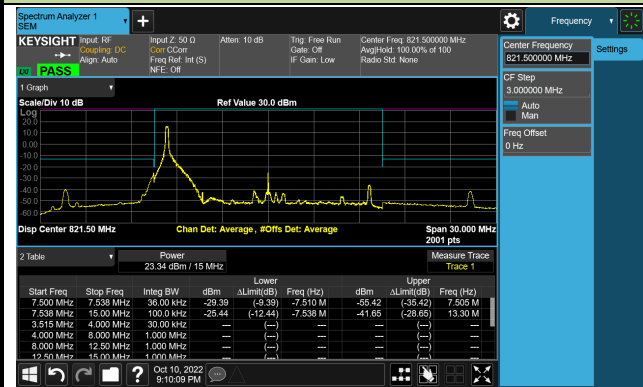


Upper Band Edge



15MHz Channel Bandwidth - 1RB

Lower Band Edge



Upper Band Edge

