



# **TEST REPORT**

No. I19D00137-SRD06

# For

Client: Datalogic S.r.l.

**Production: Smartphone** 

Model Name: MEMOR 10

**Brand Name: Datalogic** 

FCC ID: U4GDL35US

Hardware Version: V00 (US)

Software Version: 2.00.05.20190726

Issued: 2019-10-29



# **NOTE**

- 1. The test results in this test report relate only to the devices specified in this report.
- 2. This report shall not be reproduced except in full without the written approval of East China Institute of Telecommunications.
- 3. KDB 971168 D01 has not been accredited by A2LA.
- 4. For the test results, the uncertainty of measurement is not taken into account when judging the compliance with specification, and the results of measurement or the average value of measurement results are taken as the criterion of the compliance with specification directly.

### **Test Laboratory:**

East China Institute of Telecommunications

Add: 7-8F, G Area, No.668, Beijing East Road, Huangpu District, Shanghai, P. R. China

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# **Revision Version**

Report Number	Revision	Date	Memo	
I19D00137-SRD06	00	2019-08-14	Initial creation of test report	
I19D00137-SRD06	01	2019-10-29	Second creation of test report	



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# **Test Laboratory**

# 1.1. Testing Location

Company Name	ECIT Shanghai, East China Institute of Telecommunications
Address	7-8/F., Area G, No.668, Beijing East Road, Shanghai, China
Postal Code	200001
Telephone	(+86)-021-63843300
Fax	(+86)-021-63843301
FCC registration No	958356

# 1.2. Testing Environment

Normal Temperature	15℃-35℃
Relative Humidity	25%-75%

# 1.3. Project data

Project Leader	Yu Anlu
Testing Start Date	2019-06-22
Testing End Date	2019-06-24

# 1.4. Signature

Wang Liang

(Prepared this test report)

Fan Songyan (Reviewed this test report)

Zheng Zhongbin

(Approved this test report)



# 2. Client Information

# 2.1. Applicant Information

Company Name	Datalogic S.r.l.
Address	Via San Vitalino no. 13, Calderara di Reno – 40012 (BO) - Italy
Telephone	+39 051 314 72 16
Postcode	1

### 2.2. Manufacturer Information

Company Name	Datalogic S.r.l.
Address	Via San Vitalino no. 13, Calderara di Reno – 40012 (BO) - Italy
Telephone	+39 051 314 72 16
Postcode	1



# 3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

### 3.1. About EUT

Production	Smartphone
Model name	MEMOR 10
LTE Frequency Band	LTE2/4/5/7/12/13/17/25/26
LTE CA Frequency Band	CA_4A_4A/CA_4C/CA_7A-7A/CA_7C(Downlink Only)
Extreme Temperature	-30/+50℃
Nominal Voltage	3.80V
Extreme High Voltage	4.35V
Extreme Low Voltage	3.60V

#### Note:

- a. Photographs of EUT are shown in ANNEX A of this test report.
- b. The value of the antenna gain is provided by the customer. For specific antenna information, please check the antenna specifications of the customer.

# 3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
N01	359737090067954	V00 (US)	2.00.05.20190726	2019-06-18
N03	359737090067947	V00 (US)	2.00.05.20190726	2019-06-18

<sup>\*</sup>EUT ID: is used to identify the test sample in the lab internally.

# 3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	RF cable	

<sup>\*</sup>AE ID: is used to identify the test sample in the lab internally.



# 4. Reference Documents

# 4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version	
FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY	2019 10 01	
FGG Pail 2	MATTERS; GENERAL RULES AND REGULATIONS	2018-10-01	
FCC Part 22	PUBLIC MOBILE SERVICES	2018-10-01	
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	2018-10-01	
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS	NS 2018-10-01	
FCC Part 27	SERVICES		
FCC Part 90	PRIVATE LAND MOBILE RADIO SERVICES	2018-10-01	
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment	2016	
ANSI/TIA-003-E	Measurement and Performance Standards		
ANSI C63.26	American National Standard of Procedures for Compliance	2015	
ANSI C03.20	Testing of Licensed Transmitters Used in Licensed Radio		
KDB 971168 D01	Measurement Guidance for Certification of Licensed Digital	02=04	
ווען סטון וא סרע	Transmitters	v03r01	



# 5. Test Results

# 5.1. Summary of Test Results

# LTE Band 2

Items	Test Name	FCC Sub-clause	Section in this report	Verdict
1	Output Power	24.232(c)	A.1	Р
2	Emission Limit	24.238(a), 2.1051	A.2	Р

### LTE Band 4

Items	Test Name	FCC Sub-clause	Section in this report	Verdict
1	Output Power	27.50(d)(4)	A.1	Р
2	Emission Limit	27.53(h), 2.1051	A.2	Р

### LTE Band 5

Items	Test Name	FCC Sub-clause	Section in this report	Verdict	
1	Output Power	§2.1046(a), 22.913(a)	A.1	Р	
2	Emission Limit	22.917, 2.1051	A.2	Р	

# LTE Band 7

Items	Test Name	FCC Sub-clause	Section in this report	Verdict
1	Output Power	27.50(h)(2)	A.1	Р
2	Emission Limit	27.53(m), 2.1051	A.2	Р

### LTE Band 12

Items	Test Name	FCC Sub-clause	Section in this report	Verdict
1	Output Power	27.50(c)(10)	A.1	Р
2	Emission Limit	27.53(g), 2.1051	A.2	Р

### LTE Band 13

Items Test Name FCC Sub-clause Section in this report	Verdict
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I	1	Output Power	27.50(b)(10)	A.1	Р
	2	Emission Limit	27.53(c), 2.1051	A.2	Р

### LTE Band 17

Items	Test Name	FCC Sub-clause	Section in this report	Verdict
1	Output Power	27.50(c)(10)	A.1	Р
2	Emission Limit	27.53(g), 2.1051	A.2	Р

### LTE Band 25

Items	Test Name	FCC Sub-clause	Section in this report	Verdict
1	Output Power	27.50(c)(10)	A.1	Р
2	Emission Limit	27.53(g), 2.1051	A.2	Р

# LTE Band 26

Items	Test Name	FCC Sub-clause	Section in this report	Verdict
1	Equivalent Isotropically Radiated Power	2.1046/90.13 21	A.1	Р
2	Peak EIRP Power Density	2.1046/90.13 21	A.2	Р

The following terms are used in the above table.

	Thing terms are assault are assault.
Р	Pass,the EUT complies with the essential requirements in the
Г	standard.
NM	Not measure, the test was not measured by ECIT.
NA	Not applicable, the test was not applicable.
F	Fail, the EUT does not comply with the essential requirements in
	the standard.

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#### 5.2. Statements

The MEMOR 10, supporting GSM/WCDMA/LTE.etc, manufactured by Datalogic S.r.l. is a variant product for testing. ECIT only performed test cases which identified with Pass/Fail/Inc result in section 5.

ECIT has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

Note: This project is a variant of I18D00022-SRD06 original report. We only retest and report the EIRP and radiation test data. For other information, please refer to the original report.



# 6. Test Equipment Utilized

#### **Climate chamber**

No.	Equipment	Model	SN	Manufacturer	Cal.date	Cal.interval
1	Climate chamber	SH-641	92012011	ESPEC	2017-12-25	2 years

# Radiated emission test system

The test equipment and ancillaries used are as follows.

No.	Equipment	Model	SN	Manufacturer	Cal.date	Cal.interval
1	Universal Radio Communicatio n Tester	CMW500	104178	R&S	2019-05-10	1 year
2	Test Receiver	ESU40	100307	R&S	2019-05-10	1 year
3	TRILOG Broadband Antenna	VULB916 3	VULB9163 -515	Schwarzbeck	2017-02-25	3 years
4	Double Ridged Guide Antenna	ETS-311 7	135890	ETS	2017-01-11	3 years
5	2-Line V-Network	ENV216	101380	R&S	2019-05-10	1 year
6	Substitution A ntenna	ETS-311 7	00135890	ETS	2017-01-11	3 years
7	RF Signal Generator	SMF100 A	102314	R&S	2019-05-10	1 year
8	Substitution A ntenna	VUBA911 7	9117-266	Schwarzbeck	2017-11-18	3 years
9	Amplifier	SCU08	10146	R&S	2019-05-10	1 year



# Conducted test system

No.	Equipment	Model	SN	Manufacturer	Cal.date	Cal.interval
1	Vector Signal Analyser	FSQ40	200063	R&S	2019-05-10	1 year
2	Wireless communication comprehensive tester	CMW500	148904	R&S	2019-05-10	1 year
3	DC Power Supply	ZUP60-1 4	LOC-220Z 006-0007	TDL-Lambda	2019-05-10	1 year

# Software

Name	Version
Eagle FCC LTE auto test system	V3.0
EMC32	V9.15



# 7. Test Environment

**Shielding Room1** (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20%, Max. = 75 %
Shielding effectiveness	> 100 dB
Ground system resistance	< 0.5

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 35 ℃	
Relative humidity	Min. =25 %, Max. =75 %	
Shielding effectiveness	> 100 dB	
Electrical insulation	> 10 k	
Ground system resistance	< 0.5	

**Fully-anechoic chamber1** (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 k
Ground system resistance	< 0.5
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz
Site Attenuation Deviation	Between -4 and 4 dB,30MHz to 1GHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz



# 8. Measurement Uncertainty

Measurement uncertainty for all the testing in this report are within the limit specified in ECIT documents. The detailed measurement uncertainty to see the column, k=2

Measurement Items	Range	Confidence Level	Calculated Uncertainty
Maximum Peak Output Power	30MHz-3600MHz	95%	±0.544dB
EBW and VBW	30MHz-3600MHz	95%	±62.04Hz
Transmitter Spurious Emission-Conducted	30MHz-2GHz	95%	±0.90dB
Transmitter Spurious Emission-Conducted	2GHz-3.6GHz	95%	±0.88dB
Transmitter Spurious Emission-Conducted	3.6GHz-8GHz	95%	±0.96dB
Transmitter Spurious Emission-Conducted	8GHz-20GHz	95%	±0.94dB
Transmitter Spurious Emission-Radiated	9KHz-30MHz	95%	±5.66dB
Transmitter Spurious Emission-Radiated	30MHz-1000MHz	95%	±4.98dB
Transmitter Spurious Emission-Radiated	1000MHz -18000MHz	95%	±5.06dB
Transmitter Spurious Emission-Radiated	18000MHz -40000MHz	95%	±5.20dB
Frequency stability	1MHz-16GHz	95%	±62.04Hz

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### ANNEX A. MEASUREMENT RESULTS

#### ANNEX A.1. OUTPUT POWER

#### A.1.1. Summary

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMW500) to ensure max power transmission and proper modulation. In all cases, output power is within the specified limits.

CMW500 setting:

- 1: CMW500 is connected to the DUT
- 2; Set RX Expected PEP to 30 dbm

#### A.1.2 Radiated

#### A.1.2.1 Description

This is the test for the maximum radiated power from the EUT.

Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage." Rule Part 27.50(d) specifies "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP".

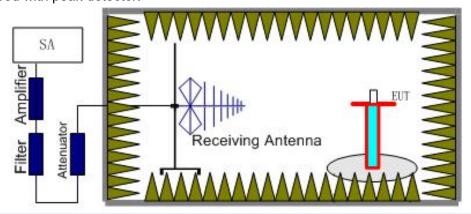
Rule Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP.".

Rule Part 27.50(c) specifies "Portable stations (hand-held de-vices) are limited to 3 watts ERP.".

#### A.1.2.2 Method of Measurement

The measurements procedures in TIA-603E-2016 are used.

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.

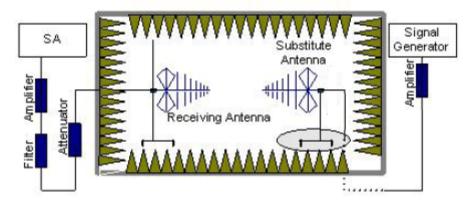


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- 2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
- 3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{\text{Mea}}$ ) is applied to the input of the substitution antenna. Adjust the level of the signal generator output until the value of the receiver reaches the previously recorded ( $P_r$ ). The power of signal source ( $P_{\text{Mea}}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

- 4. An amplifier should be connected to the Signal Source output port. And the cable should be connected between the amplifier and the substitution antenna.
  - The cable loss (P<sub>cl</sub>), the substitution antenna Gain (G<sub>a</sub>) and the amplifier Gain (P<sub>Ag</sub>) should be recorded after test.

The measurement results are obtained as described below:

Power (EIRP) =  $P_{Mea} + P_{Ag} - P_{cl} + G_a$ 

- 5. This value is EIRP since the measurement is calibrated using an antenna of known gain (unit dBi) and known input power.
- 6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15.

#### A.1.2.3 Measurement result

LTE Band 2- EIRP 24. 232(b)

Limits: ≤33dBm (2W) LTE Band 2\_3MHz\_QPSK

Frequency	EIRP	Limit	Polarization
(MHz)	(dBm)	(dBm)	Polatization
1908.5	21.29	33.00	Н

# LTE Band 2\_20MHz\_16QAM

Frequency	EIRP	Limit	Dolorization
(MHz)	(dBm)	(dBm)	Polarization
1900	21.97	33.00	Н



I TF	<b>Band</b>	4-	<b>FIRP</b>	27	500	4)
	Dalla	┰-		~ '		aı

**Limits**: ≤30m (1W)

LTE Band 4\_20MHz\_QPSK

Frequency	EIRP	Limit	Delerization
(MHz)	(dBm)	(dBm)	Polarization
1720	23.37	30.00	Н

#### LTE Band 4\_3MHz\_16QAM

Frequency	EIRP	Limit	Delerization
(MHz)	(dBm)	(dBm)	Polarization
1711.5	23.49	30.00	Н

#### LTE Band5-EIRP 27.50(d)

Limits: ≤33Bm (2W) LTE Band 5\_3MHz\_QPSK

Frequency	EIRP	Limit	Polarization
(MHz)	(dBm)	(dBm)	Polanzation
825.50	21.72	38.45	Н

#### LTE Band 5\_3MHz\_16QAM

Frequency	EIRP	Limit	Dolorization
(MHz)	(dBm)	(dBm)	Polarization
825.50	21.69	38.45	Н

### LTE Band 7- EIRP 27.50(h)(2)

Limits: ≤33 dBm (2W) LTE Band 7\_15MHz\_QPSK

Frequency	EIRP	Limit	Dolorization
(MHz)	(dBm)	(dBm)	Polarization
2562.50	23.34	33.00	Н

#### LTE Band 7\_20MHz\_16QAM

Frequency	EIRP	Limit	Polarization
(MHz)	(dBm)	(dBm)	Polarization
2510.00	24.59	33.00	Н

#### LTE Band 12 - EIRP 27.50(c)(10)

Limits: ≤34.77dBm (3W) LTE Band 12\_1.4MHz\_QPSK

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Polarization
715.30	21.7	34.77	Н

#### LTE Band 12\_1.4MHz\_16QAM

Frequency	EIRP	Limit	Delevization
(MHz)	(dBm)	(dBm)	Polarization
715.30	21.89	34.77	Н

### LTE Band 13 - EIRP 27.50(c)(10)

Limits: ≤34.77dBm (3W)
LTE Band 13\_10MHz\_QPSK



Frequency	EIRP	Limit	Polarization		
(MHz)	(dBm)	(dBm)	Folarization		
782	20.28	34.77	Н		
LTE Band 13_10MHz_16QAM	LTE Band 13_10MHz_16QAM				
Frequency	EIRP	Limit	Polarization		
(MHz)	(dBm)	(dBm)	Polarization		
782	20.16	34.77	Н		

# LTE Band 17- EIRP 27.50(c)(10)

Limits: ≤34.77dBm (3W) LTE Band 17\_5MHz\_QPSK

Frequency	EIRP	Limit	Delerization
(MHz)	(dBm)	(dBm)	Polarization
713.50	21.72	34.77	Н

#### LTE Band 17 5MHz 16QAM

Frequency	EIRP	Limit	Polarization
(MHz)	(dBm)	(dBm)	Polarization
713.50	21.68	34.77	Н



# LTE Band 25 - EIRP 27.50(c)(10)

Limits: ≤34.77dBm (3W) LTE Band 25\_3MHz\_QPSK

Frequency	EIRP	Limit	Polarization
(MHz)	(dBm)	(dBm)	
1913.5	22.12	34.77	Н

### LTE Band 25\_3MHz\_16QAM

Frequency	EIRP	Limit	Polarization
(MHz)	(dBm)	(dBm)	
1913.5	22.1	34.77	Н

### LTE Band 26 - EIRP 27.50(c)(10)

Limits: ≤34.77dBm (3W) LTE Band 26\_3MHz\_QPSK

Frequency	EIRP	Limit	Polarization
(MHz)	(dBm)	(dBm)	
815.5	22.53	34.77	Н

### LTE Band 26\_3MHz\_16QAM

Frequency	EIRP	Limit	Polarization
(MHz)	(dBm)	(dBm)	
815.5	22.58	34.77	Н

#### **ANALYZER SETTINGS:**

RBW = VBW = 8MHz for occupied bandwdiths equal to or less than 5MHz.

RBW = VBW = 20MHz for occupied bandwidths equal to or greater than 10MHz.

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#### ANNEX A.2. EMISSION LIMT

#### Reference

FCC: CFR 2.1051, 22.917,24.238(a), 27.53(g), 27.53(h), 27.53(m).

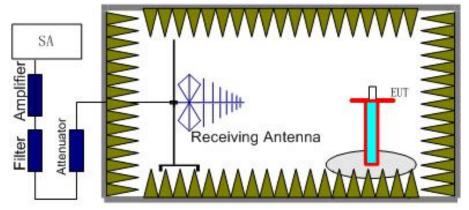
#### A.2.1 Measurement Method

The measurements procedures in TIA-603E-2016 are used. This measurement is carried out in fully-anechoic chamber FAC-3.

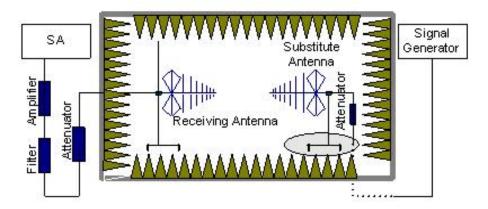
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz as outlined in Part 22.917,Part 24.238(a), Part 27.53(g), Part 27.53(h), Part 27.53(m). The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the LTE Band 12.

#### The procedure of radiated spurious emissions is as follows:

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



- 2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
- 3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



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In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{\text{Mea}}$ ) is applied to the input of the substitution antenna. Adjust the level of the signal generator output until the value of the receiver reaches the previously recorded ( $P_r$ ). The power of signal source ( $P_{\text{Mea}}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (P<sub>pl</sub>) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G<sub>a</sub>) should be recorded after test.

An amplifier should be connected in for the test.

The Path loss (Ppl) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

Power (EIRP)= $P_{Mea}$ -  $P_{pl}$  +  $G_a$ 

- 5. This value is EIRP since the measurement is calibrated using an antenna of known gain (unit: dBi) and known input power.
- 6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dB.

#### A.2.2 Measurement Limit

Part 22.917,Part 24.238(a), Part 27.53(g), Part 27.53(h), Part 27.53(m) all specify that 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 specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

#### A.2.3 Measurement Results

7. Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the LTE Bands 12. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the LTE Band 12 into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this. The evaluated frequency range is from 30MHz to 26GHz.



# LTE Band 12, 10 MHz, QPSK, Channel 20775

Frequency (MHz)	PMea (dBm)	PcI (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
1278.6	-48.12	3.9	2.0	-50.02	-13	Н
2123.8	-34.21	4.9	2.8	-36.31	-13	Н
3541.6	-47.02	6.4	4.7	-48.72	-13	V
4580.4	-51.19	7.4	7.3	-51.29	-13	Н
6034.0	-52.56	8.6	10.4	-50.76	-13	V
7983.1	-55	9.9	16.6	-48.3	-13	V

### LTE Band 12, 10 MHz, QPSK, Channel 21100

Frequency (MHz)	PMea (dBm)	PcI (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
1673.6	-42.02	4.3	2.9	-43.42	-13	Н
2544.6	-36.07	5.4	3.7	-37.77	-13	V
3687.7	-49.37	6.6	7.7	-48.27	-13	V
5468.1	-49.37	8.1	9.5	-47.97	-13	V
6269.2	-49.08	8.8	10.8	-47.08	-13	Н
6936.9	-50.07	9.3	12.9	-46.47	-13	Н

# LTE Band 12, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	PMea (dBm)	PcI (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
2145.4	-35.67	5.0	3.3	-37.37	-13	Н
2960.0	-35.53	5.8	4.7	-36.63	-13	Н
3576.4	-40.95	6.5	4.7	-42.75	-13	V
4567.6	-51.29	7.4	7.3	-51.39	-13	Н
5964.0	-52.97	8.5	10.4	-51.07	-13	V
7870.9	-53.11	9.9	15.3	-47.71	-13	V

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# **ANNEX B. Accreditation Certificate**



# **Accredited Laboratory**

A2LA has accredited

# EAST CHINA INSTITUTE OF TELECOMMUNICATIONS

Shanghai, People's Republic of China

for technical competence in the field of

# **Electrical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this on day of May 2019.

Vice President, Accreditation Services For the Accreditation Council Certificate Number 3682.01 Valid to February 28, 2021

For the fests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

\*\*\*\*\*\*\*\*END OF REPORT\*\*\*\*\*\*\*