

FCC RF Test Report

(LTE)

Report No.: JYTSZ-R12-2400994G1

Applicant: Dynamox SA

Address of Applicant: Rua Coronel Luiz Caldeira, n 67 Condominio Ybira, Itacorubi, Florianópolis-SC, Brazil, 88034-110

Equipment Under Test (EUT)

Product Name: DynaGateway

Model No.: DynaGateway LTE-S

Trade Mark: N/A

FCC ID: 2AT3M-GTWLTE

Applicable Standards: FCC CFR Title 47 Part 2, 22H, 24E, 27L&F&H, 90R, 90S

Date of Sample Receipt: 13 Aug., 2024

Date of Test: 14 Aug., to 11 Nov., 2024

Date of Report Issued: 11 Nov., 2024

Test Result: PASS

Tested by:

Rebin Gu
Project Engineer

Sev Chang
Senior Engineer

James Wei
Manager

Date:

11 Nov., 2024

Reviewed by:

Date:

11 Nov., 2024

Approved by:

Date:

11 Nov., 2024

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 above the application standard version. Test results reported herein relate only to the item(s) tested.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

1 Version

Version No.	Date	Description
00	11 Nov., 2024	Original

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3 General Information

3.1 Client Information

Applicant:	Dynamox SA
Address:	Rua Coronel Luiz Caldeira, n 67 Condominio Ybira, Itacorubi, Florianópolis-SC, Brazil, 88034-110
Manufacturer/Factory:	Dynamox SA
Address:	Rua Coronel Luiz Caldeira, n 67 Condominio Ybira, Itacorubi, Florianópolis-SC, Brazil, 88034-110

3.2 General Description of E.U.T.

Product Name:	DynaGateway		
Model No.:	DynaGateway LTE-S		
Operation Frequency Range:	LTE band 2:	Tx: 1850 MHz - 1910 MHz	Rx: 1930 MHz - 1990 MHz
	LTE band 4:	Tx: 1710 MHz - 1755 MHz	Rx: 2110 MHz - 2155 MHz
	LTE band 5:	Tx: 824 MHz - 849 MHz	Rx: 869 MHz - 894 MHz
	LTE band 12:	Tx: 699 MHz - 716 MHz	Rx: 729 MHz - 746 MHz
	LTE band 13:	Tx: 777 MHz - 787 MHz	Rx: 746 MHz - 756 MHz
	LTE band 14:	Tx: 788 MHz - 798 MHz	Rx: 758 MHz - 768 MHz
	LTE band 25:	Tx: 1850 MHz - 1915 MHz	Rx: 1930 MHz - 1995 MHz
	LTE band 26:	Tx: 814 MHz - 849 MHz	Rx: 859 MHz - 894 MHz
Modulation Type:	☒ QPSK ☒ 16QAM ☐ 64QAM		
Antenna Type:	Internal Antenna		
Antenna Gain:	LTE band 2:	-2.67 dBi (declare by Applicant)	
	LTE band 4:	-6.20 dBi (declare by Applicant)	
	LTE band 5:	2.42 dBi (declare by Applicant)	
	LTE band 12:	-0.36 dBi (declare by Applicant)	
	LTE band 13:	0.05 dBi (declare by Applicant)	
	LTE band 14:	2.42 dBi (declare by Applicant)	
	LTE band 25:	-2.67 dBi (declare by Applicant)	
	LTE band 26:	2.42 dBi (declare by Applicant)	
Power Supply:	DC 12V-24V		
Test Sample Condition:	The test samples were provided in good working order with no visible defects.		

3.3 Test Mode and Environment

Test Mode:	
QPSK mode:	Keep the EUT communication with simulated station in QPSK mode
16QAM mode:	Keep the EUT communication with simulated station in 16QAM mode
Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.	
Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 12.0 Vdc, Extreme: Low 10.2 Vdc, High 24 Vdc
Test Engineer:	Real Chen (Radiated measurement)

3.4 Description of Test Auxiliary Equipment

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Anritsu	MT8820C	6201026545
Simulated Station	Rohde & Schwarz	CMW500	108209

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	4.6 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	5.8 dB
Radiated Emission (30MHz ~ 1GHz) (3m FAR)	3.43 dB
Radiated Emission (1GHz ~ 6GHz) (3m FAR)	4.95 dB
Radiated Emission (6GHz ~ 18GHz) (3m FAR)	5.23 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.32 dB
Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.	

3.6 Additions to, Deviations, or Exclusions from the Method

No

3.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations: ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● CNAS - Registration No.: CNAS L15527 JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527. ● A2LA - Registration No.: 4346.01 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. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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3.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

3.9 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2026
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	01-05-2024	01-04-2025
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	01-09-2024	01-08-2025
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-01-2024	06-30-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	01-05-2024	01-04-2025
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-28-2023	12-27-2024
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-27-2023	12-26-2024
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-27-2023	12-26-2024
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-28-2023	12-27-2024
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-27-2023	12-26-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-27-2023	12-26-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	09-25-2023	09-24-2024
				09-09-2024	09-08-2025
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-17-2024	01-16-2025
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-17-2024	01-16-2025
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-17-2024	01-16-2025
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Radiated Emission(3m FAR):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m FAR	YUNYI	9m*6m*6m	WXJ097	06-15-2023	06-14-2028
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ097-2	07-01-2024	06-30-2025
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-01-2024	06-30-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	06-16-2024	06-15-2025
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-28-2023	12-27-2024
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	04-24-2024	04-23-2025
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	04-24-2024	04-23-2025
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-28-2023	12-27-2024
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	12-27-2023	12-26-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-27-2023	12-26-2024
Spectrum Analyzer	KEYSIGHT	N9020B	WXJ081-1	06-11-2024	06-10-2025
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	07-30-2024	07-29-2025
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	07-30-2024	07-29-2025
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	07-30-2024	07-29-2025
High Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Low Band Reject Filter Group	Tonscend	JS0806-F	WXJ097-4	N/A	
Test Software	Tonscend	TS+	Version: 5.0.0		

4 Measurement Setup and Procedure

4.1 Test Channel

According to ANSI C63.26-2015 chapter 5.1.2.1 Table 2 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

LTE band 2					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	18607	1850.7	Lowest channel	18915	1851.5
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19193	1909.3	Highest channel	19185	1908.5
5 MHz			10 MHz		
Lowest channel	18625	1852.5	Lowest channel	18650	1855.0
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19175	1907.5	Highest channel	19150	1905.0
15 MHz			20 MHz		
Lowest channel	18675	1857.5	Lowest channel	18700	1860.0
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19125	1902.5	Highest channel	19100	1900.0
LTE band 4					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	19957	1710.7	Lowest channel	19965	1711.5
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20393	1754.3	Highest channel	20385	1753.5
5 MHz			10 MHz		
Lowest channel	19975	1712.5	Lowest channel	20000	1715.0
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20375	1752.5	Highest channel	20350	1750.0
15 MHz			20 MHz		
Lowest channel	20025	1717.5	Lowest channel	20050	1720.0
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20325	1747.5	Highest channel	20300	1745.0
LTE band 5					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	20407	824.7	Lowest channel	20415	825.5
Middle channel	20525	836.5	Middle channel	20525	836.5
Highest channel	20643	848.3	Highest channel	20635	847.5
5 MHz			10 MHz		
Lowest channel	20425	826.5	Lowest channel	20450	829.0
Middle channel	20525	836.5	Middle channel	20525	836.5
Highest channel	20625	846.5	Highest channel	20600	844.0

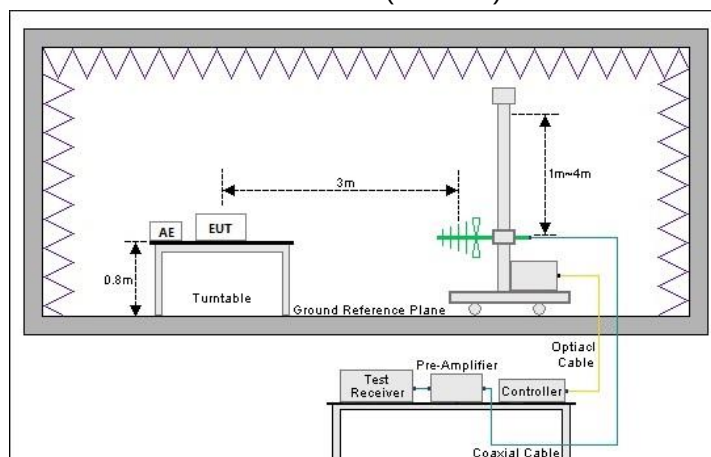
LTE band 12					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	23017	699.70	Lowest channel	23025	700.50
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23173	715.30	Highest channel	23165	714.50
5 MHz			10 MHz		
Lowest channel	23035	701.50	Lowest channel	23060	704.00
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23155	713.50	Highest channel	23130	711.00
LTE band 13					
5 MHz			10 MHz		
Lowest channel	23205	779.5	Lowest channel	/	/
Middle channel	23230	782.0	Middle channel	23230	782.00
Highest channel	23255	784.5	Highest channel	/	/
LTE band 14					
5 MHz			10 MHz		
Lowest channel	23305	790.5	Lowest channel	/	/
Middle channel	23330	793.0	Middle channel	23330	793.0
Highest channel	23355	795.5	Highest channel	/	/
LTE band 25					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	26047	1850.70	Lowest channel	26055	1851.50
Middle channel	26365	1882.50	Middle channel	26365	1882.50
Highest channel	26683	1914.30	Highest channel	26675	1913.50
5 MHz			10 MHz		
Lowest channel	26065	1852.50	Lowest channel	26090	1855.00
Middle channel	26365	1882.50	Middle channel	26365	1882.50
Highest channel	26665	1912.50	Highest channel	26640	1910.00
15 MHz			20 MHz		
Lowest channel	26115	1857.50	Lowest channel	26140	1860.00
Middle channel	26365	1882.50	Middle channel	26365	1882.50
Highest channel	26615	1907.50	Highest channel	26590	1905.00

LTE band 26 For Part 22					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	26797	824.7	Lowest channel	26805	825.5
Middle channel	26915	836.5	Middle channel	26915	836.5
Highest channel	27033	848.3	Highest channel	27025	847.5
5 MHz			10 MHz		
Lowest channel	26815	826.5	Lowest channel	26840	829.0
Middle channel	26915	836.5	Middle channel	26915	836.5
Highest channel	27015	846.5	Highest channel	26990	844.0
15 MHz					
Lowest channel	26865	831.5			
Middle channel	26915	836.5			
Highest channel	26965	841.5			
LTE band 26 For Part 90					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	26697	814.7	Lowest channel	26705	815.5
Middle channel	26740	819.0	Middle channel	26740	819.0
Highest channel	26783	823.3	Highest channel	26775	822.5
5 MHz			10 MHz		
Lowest channel	26715	816.5	Lowest channel	/	/
Middle channel	26740	819.0	Middle channel	26740	819.0
Highest channel	26765	821.5	Highest channel	/	/

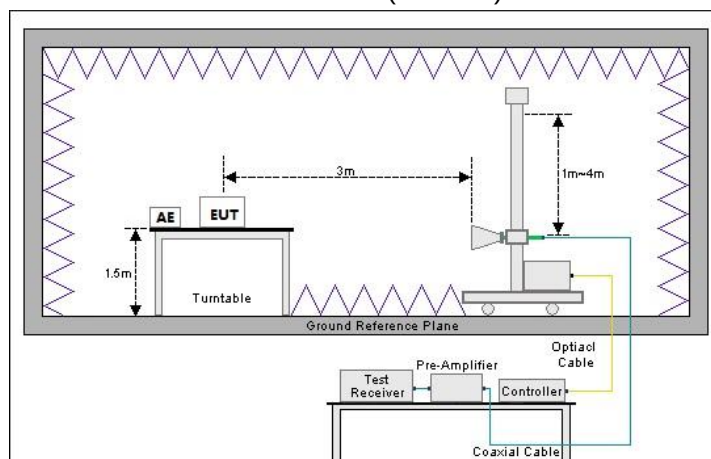
4.2 Test Setup

1) Radiated emission measurement:

Below 1GHz (3m SAC)



Above 1GHz (3m FAR)



4.3 Test Procedure

Test method	Test step
Radiated emission	For below 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For above 1GHz: 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

Test items	Standard clause	Test data	Result
RF Exposure	Part 1.1307 Part 2.1093	See RF Exposure Report	Pass
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (c)(10) Part 27.50 (d)(4) Part 90.635 (b) Part 90.542(a)	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.
Peak-to-Average Power Ratio	Part 24.232 (d) Part 27.50 (d)(5)	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.
Modulation Characteristics	Part 2.1047	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.
26dB Emission Bandwidth 99% Occupied Bandwidth	Part 2.1049	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.
Out of Band Emission at Antenna Terminals	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (c) Part 27.53 (h) Part 90.691 (a) Part 90.543(e)	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.

Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (c) Part 27.53 (g) Part 27.53 (h) Part 27.53 (m)(4) Part 90.691 (a)	See Section 5.2	Pass
Frequency Stability vs. Temperature	Part 2.1055 (a)(1)(b) Part 22.355 Part 24.235 Part 27.54 Part 90.213 (a) Part 90.539(e)	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.
Frequency Stability vs. Voltage	Part 2.1055 (d)(2) Part 22.355 Part 24.235 Part 27.54 Part 90.213 (a)	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.	Please refer to FCC ID: RI7LE910CXWWX, Report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7.
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. Please refer to FCC ID: RI7LE910CXWWX, report No.: 1M2106040065-04.RI7 & 1M2106040065-05.RI7 & 1M2106040065-06.RI7 & 1M2106040065-07.RI7 & 1M2106040065-08.RI7 & 1M2106040065-10.RI7 issue by PCTEST Lab. Columbia, MD, USA			
Test Method:	ANSI/TIA-603-E-2016 ANSI C63.26-2015		

5.1.2 Test Limit

Test items	Limit
RF Output Power	LTE band 2: 2W EIRP LTE band 4: 1W EIRP LTE band 5/26(Part 22): 7W ERP LTE band 12/13: 3W ERP LTE band 14: 30W ERP LTE band 26(Part 90): 100W EIRP
Peak-to-Average Power Ratio	LTE band 2/4/25/26: The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB Other bands: N/A report only
Modulation Characteristics	N/A
26dB Emission Bandwidth 99% Occupied Bandwidth	N/A
Out of Band Emission at Antenna Terminals Field Strength of Spurious Radiation	LTE band 2, 4, 5, 12, 13, 26(Part 22): 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. LTE band 14: For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following: (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations; (2) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB. LTE band 26(Part 90): (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 $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. (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 $43 + 10 \log_{10}(P)$ 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.

Frequency Stability vs. Temperature

Frequency Stability vs. Voltage

LTE band 2:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

LTE band 4, 12, 13:

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

LTE band 14:

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

LTE band 5, 26(Part 22):

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

TABLE C-1—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES

Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10.0	n/a	n/a

LTE band 26(Part 90):

Part 90.213(a): Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table.

Frequency range (MHz)	Fixed and base stations	Mobile stations	
		Over 2 watts output power	2 watts or less output power
Below 25	^{1 2 3} 100	100	200
25-50	20	20	50
72-76	5		50
150-174	^{5 11} 5	⁶ 5	^{4 6} 50
216-220	1.0		1.0
220-222 ¹²	0.1	1.5	1.5
421-512	^{7 11 14} 2.5	⁸ 5	⁸ 5
806-809	¹⁴ 1.0	1.5	1.5
809-824	¹⁴ 1.5	2.5	2.5
851-854	1.0	1.5	1.5
854-869	1.5	2.5	2.5
896-901	¹⁴ 0.1	1.5	1.5
902-928	2.5	2.5	2.5
902-928 ¹³	2.5	2.5	2.5
929-930	1.5		
935-940	0.1	1.5	¹¹ 1.5
1427-1435	⁹ 300	300	300
Above 2450 ¹⁰			

5.2 Field Strength of Spurious Radiation Measurement

Note: All bandwidths, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

LTE band 2 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-60.46	-0.36	-60.82	-13.00	47.82	Vertical
5552.10	-50.07	4.16	-45.91	-13.00	32.91	Vertical
7402.00	-63.99	6.10	-57.89	-13.00	44.89	Vertical
3701.40	-62.44	-0.17	-62.61	-13.00	49.61	Horizontal
5552.10	-53.56	4.07	-49.49	-13.00	36.49	Horizontal
7402.00	-65.15	5.78	-59.37	-13.00	46.37	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-60.25	-1.01	-61.26	-13.00	48.26	Vertical
5640.00	-49.64	3.96	-45.68	-13.00	32.68	Vertical
7520.00	-64.43	5.55	-58.88	-13.00	45.88	Vertical
3760.00	-62.78	-0.56	-63.34	-13.00	50.34	Horizontal
5640.00	-53.10	4.14	-48.96	-13.00	35.96	Horizontal
7520.00	-65.29	5.56	-59.73	-13.00	46.73	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3816.60	-60.74	-0.59	-61.33	-13.00	48.33	Vertical
5724.90	-49.62	3.42	-46.20	-13.00	33.20	Vertical
7633.20	-64.91	6.40	-58.51	-13.00	45.51	Vertical
3816.60	-62.92	-0.10	-63.02	-13.00	50.02	Horizontal
5724.90	-53.34	3.80	-49.54	-13.00	36.54	Horizontal
7633.20	-64.8	6.24	-58.56	-13.00	45.56	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 4 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-59.43	-2.15	-61.58	-13.00	48.58	Vertical
5132.10	-59.61	3.80	-55.81	-13.00	42.81	Vertical
6842.80	-64.51	5.86	-58.65	-13.00	45.65	Vertical
3421.40	-58.56	-2.22	-60.78	-13.00	47.78	Horizontal
5132.10	-64.18	3.86	-60.32	-13.00	47.32	Horizontal
6842.80	-64.26	6.07	-58.19	-13.00	45.19	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.00	-59.38	-2.54	-61.92	-13.00	48.92	Vertical
5197.50	-59.42	3.25	-56.17	-13.00	43.17	Vertical
6930.00	-64.12	5.20	-58.92	-13.00	45.92	Vertical
3465.00	-58.63	-2.54	-61.17	-13.00	48.17	Horizontal
5197.50	-63.92	3.17	-60.75	-13.00	47.75	Horizontal
6930.00	-63.92	5.17	-58.75	-13.00	45.75	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3508.60	-59.27	-3.13	-62.40	-13.00	49.40	Vertical
5262.90	-59.88	3.11	-56.77	-13.00	43.77	Vertical
7017.20	-64.02	5.74	-58.28	-13.00	45.28	Vertical
3508.60	-58.21	-2.96	-61.17	-13.00	48.17	Horizontal
5262.90	-64.15	3.46	-60.69	-13.00	47.69	Horizontal
7017.20	-63.67	5.80	-57.87	-13.00	44.87	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 5 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-40.58	-11.51	-52.09	-13.00	39.09	Vertical
2474.10	-47.32	-8.67	-55.99	-13.00	42.99	Vertical
3298.80	-49.31	-3.89	-53.20	-13.00	40.20	Vertical
1649.40	-37.94	-10.85	-48.79	-13.00	35.79	Horizontal
2474.10	-49.72	-9.13	-58.85	-13.00	45.85	Horizontal
3298.80	-48.02	-3.96	-51.98	-13.00	38.98	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.30	-40.49	-10.70	-51.19	-13.00	38.19	Vertical
2509.50	-47.35	-8.66	-56.01	-13.00	43.01	Vertical
3346.00	-49.20	-3.33	-52.53	-13.00	39.53	Vertical
1673.30	-38.32	-10.28	-48.60	-13.00	35.60	Horizontal
2509.50	-49.50	-8.73	-58.23	-13.00	45.23	Horizontal
3346.00	-48.47	-3.42	-51.89	-13.00	38.89	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-40.95	-9.90	-50.85	-13.00	37.85	Vertical
2544.90	-47.41	-8.45	-55.86	-13.00	42.86	Vertical
3393.20	-49.57	-2.59	-52.16	-13.00	39.16	Vertical
1696.60	-38.3	-9.70	-48.00	-13.00	35.00	Horizontal
2544.90	-49.66	-8.21	-57.87	-13.00	44.87	Horizontal
3393.20	-48.12	-2.65	-50.77	-13.00	37.77	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 12 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1399.40	-33.5	-11.68	-45.18	-13.00	32.18	Vertical
2099.10	-39.04	-9.89	-48.93	-13.00	35.93	Vertical
2798.80	-43.58	-7.09	-50.67	-13.00	37.67	Vertical
1399.40	-33.34	-11.43	-44.77	-13.00	31.77	Horizontal
2099.10	-38.86	-9.44	-48.30	-13.00	35.30	Horizontal
2798.80	-49.88	-6.71	-56.59	-13.00	43.59	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.00	-33.05	-11.77	-44.82	-13.00	31.82	Vertical
2122.50	-39.28	-9.58	-48.86	-13.00	35.86	Vertical
2830.00	-43.96	-6.50	-50.46	-13.00	37.46	Vertical
1415.00	-33.17	-11.45	-44.62	-13.00	31.62	Horizontal
2122.50	-38.92	-8.86	-47.78	-13.00	34.78	Horizontal
2830.00	-49.84	-5.97	-55.81	-13.00	42.81	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.60	-32.56	-11.92	-44.48	-13.00	31.48	Vertical
2145.90	-39.04	-9.51	-48.55	-13.00	35.55	Vertical
2861.20	-44.23	-5.55	-49.78	-13.00	36.78	Vertical
1430.60	-32.9	-11.66	-44.56	-13.00	31.56	Horizontal
2145.90	-38.57	-9.15	-47.72	-13.00	34.72	Horizontal
2861.20	-49.69	-5.44	-55.13	-13.00	42.13	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 13 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.00	-42.14	-11.55	-53.69	-13.00	40.69	Vertical
2338.50	-42.8	-9.40	-52.20	-13.00	39.20	Vertical
3118.00	-52.54	-2.81	-55.35	-13.00	42.35	Vertical
1559.00	-39.09	-12.18	-51.27	-13.00	38.27	Horizontal
2338.50	-44.65	-9.26	-53.91	-13.00	40.91	Horizontal
3118.00	-53.17	-3.05	-56.22	-13.00	43.22	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.00	-41.94	-11.57	-53.51	-13.00	40.51	Vertical
2346.00	-42.69	-9.38	-52.07	-13.00	39.07	Vertical
3128.00	-52.30	-2.66	-54.96	-13.00	41.96	Vertical
1564.00	-38.90	-12.12	-51.02	-13.00	38.02	Horizontal
2346.00	-44.97	-9.27	-54.24	-13.00	41.24	Horizontal
3128.00	-52.96	-3.01	-55.97	-13.00	42.97	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1569.00	-42.08	-11.63	-53.71	-13.00	40.71	Vertical
2353.50	-42.23	-9.35	-51.58	-13.00	38.58	Vertical
3138.00	-52.72	-2.48	-55.20	-13.00	42.20	Vertical
1569.00	-38.86	-12.06	-50.92	-13.00	37.92	Horizontal
2353.50	-45.05	-9.28	-54.33	-13.00	41.33	Horizontal
3138.00	-53.09	-2.96	-56.05	-13.00	43.05	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 14 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1581.00	-41.88	-11.74	-53.62	-13.00	40.62	Vertical
2371.50	-46.12	-9.27	-55.39	-13.00	42.39	Vertical
3162.00	-53.33	-2.08	-55.41	-13.00	42.41	Vertical
1581.00	-42.14	-11.92	-54.06	-13.00	41.06	Horizontal
2371.50	-49.3	-9.29	-58.59	-13.00	45.59	Horizontal
3162.00	-53.64	-2.85	-56.49	-13.00	43.49	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1586.00	-42.31	-11.78	-54.09	-13.00	41.09	Vertical
2379.00	-45.78	-9.24	-55.02	-13.00	42.02	Vertical
3172.00	-53.76	-1.96	-55.72	-13.00	42.72	Vertical
1586.00	-42.28	-11.86	-54.14	-13.00	41.14	Horizontal
2379.00	-48.86	-9.30	-58.16	-13.00	45.16	Horizontal
3172.00	-53.73	-2.79	-56.52	-13.00	43.52	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1591.00	-42.36	-11.83	-54.19	-13.00	41.19	Vertical
2386.50	-46.26	-9.21	-55.47	-13.00	42.47	Vertical
3182.00	-54.04	-2.03	-56.07	-13.00	43.07	Vertical
1591.00	-42.37	-11.79	-54.16	-13.00	41.16	Horizontal
2386.50	-48.76	-9.31	-58.07	-13.00	45.07	Horizontal
3182.00	-53.39	-2.70	-56.09	-13.00	43.09	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 25 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-61.4	-0.36	-61.76	-13.00	48.76	Vertical
5552.10	-49.99	4.16	-45.83	-13.00	32.83	Vertical
7402.80	-65.13	6.10	-59.03	-13.00	46.03	Vertical
3701.40	-63.88	-0.17	-64.05	-13.00	51.05	Horizontal
5552.10	-54.35	4.07	-50.28	-13.00	37.28	Horizontal
7402.80	-65.27	5.76	-59.51	-13.00	46.51	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765.00	-61.03	-1.01	-62.04	-13.00	49.04	Vertical
5647.50	-50.03	3.85	-46.18	-13.00	33.18	Vertical
7530.00	-64.69	5.56	-59.13	-13.00	46.13	Vertical
3765.00	-63.61	-0.54	-64.15	-13.00	51.15	Horizontal
5647.50	-54.50	4.08	-50.42	-13.00	37.42	Horizontal
7530.00	-65.49	5.56	-59.93	-13.00	46.93	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3828.60	-61.46	-0.36	-61.82	-13.00	48.82	Vertical
5742.90	-50.29	3.50	-46.79	-13.00	33.79	Vertical
7657.20	-64.52	6.54	-57.98	-13.00	44.98	Vertical
3828.60	-63.14	0.06	-63.08	-13.00	50.08	Horizontal
5742.90	-54.52	3.85	-50.67	-13.00	37.67	Horizontal
7657.20	-65.86	6.33	-59.53	-13.00	46.53	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 26 (Part 22H)– 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-40.33	-11.51	-51.84	-13.00	38.84	Vertical
2474.10	-48.13	-8.67	-56.80	-13.00	43.80	Vertical
3298.80	-51.42	-3.89	-55.31	-13.00	42.31	Vertical
1649.40	-39.05	-10.85	-49.90	-13.00	36.90	Horizontal
2474.10	-49.25	-9.13	-58.38	-13.00	45.38	Horizontal
3298.80	-51.3	-3.96	-55.26	-13.00	42.26	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.00	-40.28	-10.70	-50.98	-13.00	37.98	Vertical
2509.50	-48.18	-8.66	-56.84	-13.00	43.84	Vertical
3346.00	-51.14	-3.33	-54.47	-13.00	41.47	Vertical
1673.00	-39.07	-10.28	-49.35	-13.00	36.35	Horizontal
2509.50	-49.34	-8.73	-58.07	-13.00	45.07	Horizontal
3346.00	-51.20	-3.42	-54.62	-13.00	41.62	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-40.42	-9.90	-50.32	-13.00	37.32	Vertical
2544.90	-48.44	-8.45	-56.89	-13.00	43.89	Vertical
3393.20	-51.52	-2.59	-54.11	-13.00	41.11	Vertical
1696.60	-39.14	-9.70	-48.84	-13.00	35.84	Horizontal
2544.90	-49.24	-8.21	-57.45	-13.00	44.45	Horizontal
3393.20	-51.45	-2.65	-54.10	-13.00	41.10	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 26 (Part 90S)– 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1629.40	-41.3	-12.21	-53.51	-13.00	40.51	Vertical
2444.10	-46.87	-8.84	-55.71	-13.00	42.71	Vertical
3258.80	-51.47	-3.57	-55.04	-13.00	42.04	Vertical
1629.40	-45.45	-11.35	-56.80	-13.00	43.80	Horizontal
2444.10	-48.75	-9.23	-57.98	-13.00	44.98	Horizontal
3258.80	-54.21	-3.42	-57.63	-13.00	44.63	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1638.00	-41.39	-11.90	-53.29	-13.00	40.29	Vertical
2457.00	-47.01	-8.75	-55.76	-13.00	42.76	Vertical
3276.00	-51.45	-3.71	-55.16	-13.00	42.16	Vertical
1638.00	-45.13	-11.13	-56.26	-13.00	43.26	Horizontal
2457.00	-48.35	-9.20	-57.55	-13.00	44.55	Horizontal
3276.00	-53.90	-3.65	-57.55	-13.00	44.55	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1646.60	-41.29	-11.60	-52.89	-13.00	39.89	Vertical
2469.90	-47.15	-8.67	-55.82	-13.00	42.82	Vertical
3293.20	-51.32	-3.85	-55.17	-13.00	42.17	Vertical
1646.60	-45.4	-10.92	-56.32	-13.00	43.32	Horizontal
2469.90	-48.2	-9.18	-57.38	-13.00	44.38	Horizontal
3293.20	-54.05	-3.88	-57.93	-13.00	44.93	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

-----End of report-----