

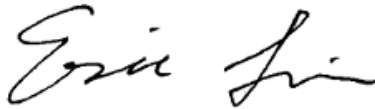
1 Cover Page

RF MPE REPORT

Application No.: KSCR2207001267AT
FCC ID: 2ADZR5G1801WA
Applicant: Nokia Shanghai Bell Co., Ltd.
Address of Applicant: 388#, Ningqiao Road, China (Shanghai) Pilot Free Trade Zone, Shanghai 201206, China
Manufacturer: Nokia Solutions and Networks Oy
Address of Manufacturer: Karakaari 7 02610 Espoo Finland
Equipment Under Test (EUT):
EUT Name: Nokia FastMile 5G Gateway 2
Model No.: 5G18-01W-A
Standard(s) : FCC Rules 47 CFR §2.1091
 KDB 447498 D01 V06
Date of Receipt: 2022-07-22
Date of Test: 2022-07-30 to 2022-09-13
Date of Issue: 2022-09-13

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin
EMC Lab Manager

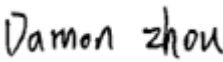
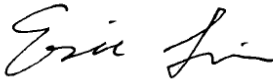


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Revision Record			
Version	Description	Date	Remark
00	Original	2022-09-27	/

Authorized for issue by:			
			
	Damon Zhou / Project Engineer		
			
	Eric Lin / Reviewer		



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3 General Information

3.1 General Description of E.U.T.

Power supply:	<p>AC/DC Adapter 1: Model: ADS-24FUA-12B 12024EPCU Input: 100-240V~50/60Hz 0.7A MAX Output: DC 12V 2.0A</p> <p>AC/DC Adapter 2: Model: RD1202000-C55-154MG Input: 100-240V~50/60Hz 1.0A MAX Output: DC 12V 2.0A</p>
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3.2 Technical Specifications

Hardware Version:	3TG02241Bxxx (x:A~Z)			
Software Version:	5GGW2-OMNI-2_D220300B31T0301E0133			
Sample Type:	Mobile production			
Antenna Type:	ANT	Type	MPN of 1 st source	MPN of 2 nd source
	Ant 0	Monopole	VT-LMH-0	N66NKACM-PK1-LG1X110BUR2
	Ant 1	Monopole	VT-LMH-1	N66NKACN-PK1-LB1X160BUR2
	Ant 2	Monopole	VT-MH-2	N65NKACC-PK1-LR1X120BU
	Ant 3	Dipole	VT-MH-3	N65NKACD-PK1-LA1X55BU
	W1	Dipole	VT-WF-1	N03NKACE-PK1-LE1X90BUR1
	W2	Dipole	VT-WF-2	N03NKACF-PK1-LW1X120BUR3
	Note: The customer provides two antennas of the same specification and type but with different manufacturers			
Extreme temp. Tolerance:	-30°C to +55°C			
Extreme vol. Limits:	10.8V DC to 13.2V DC (nominal: 12V DC)			



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3.2.1 WiFi 2.4GHz

Operation Frequency:	802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz 802.11n(HT40)/ax(HE40): 2422MHz to 2452MHz					
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11ax: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)					
Channel Spacing:	5MHz					
Number of Channels:	802.11b/g/n(HT20): 11, 802.11n(HT40):7					
Adaptive Type:	LBE under LBT based DAA					
Antenna Gain:	Frequency (MHz)	TX Antenna gain (dBi)				
		W1	W2	Non-Beamforming gain	Beamforming gain	
		2412	5	5	5	6.2
		2442	5.5	5.3	5.5	6.6
	2472	4.4	5.4	5.4	5.7	
	Provided by the manufacturer					

Note:

The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.



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3.2.2 WiFi 5GHz

Operation Frequency:	U-NII-1: 5180-5240MHz U-NII-2A: 5260-5320MHz U-NII-2C: 5500-5720MHz U-NII-3: 5745-5825MHz				
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)				
Channel Spacing:	802.11a/n20/ac20/ax20: 20MHz 802.11n40/ac40/ax40: 40MHz 802.11ac80/ax80: 80MHz				
Adaptive Type:	LBE under LBT based DAA				
Antenna Gain:	TX Antenna gain (dBi)				
	Frequency (MHz)	W1	W2	Non-Beamforming gain	Beamforming gain
	5180	3.9	4.9	4.9	6.1
	5240	4.4	5.4	5.4	6.2
	5320	4.4	5.4	5.4	5.8
	5500	5.2	5.4	5.4	6
	5600	5.2	5.4	5.4	5.5
	5700	5.2	5.4	5.4	6
5825	5.7	4.8	5.7	6.5	
Provided by the manufacturer					

Note:

The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.



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3.2.3 LTE

LTE Operation Frequency Band:	LTE Band 2,4,5,7,25,26,38,41,42,66
LTE Modulation Type:	QPSK,16QAM,64QAM,256QAM
Antenna Gain:	Band 2: 5.1dBi (Provided by the manufacturer) Band 4: 5.4dBi (Provided by the manufacturer) Band 5: 3.9dBi (Provided by the manufacturer)s Band 7: 4.8dBi (Provided by the manufacturer) Band 25: 5.1dBi (Provided by the manufacturer) Band 26: 3.9dBi (Provided by the manufacturer) Band 38: 5.2dBi (Provided by the manufacturer) Band 41: 5.3dBi (Provided by the manufacturer) Band 42: 8dBi (Provided by the manufacturer) Band 66: 5.4dBi (Provided by the manufacturer)
LTE CA Band under test	CA_7C, CA_5A-66A, CA_4A-5A, CA_4A-7A, CA_2A-4A, CA_2A-7A, CA_2A-41A, CA_2A-66A, CA_25A-41A, CA_2A-38A

Note:

The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.

3.2.4 5GNR

5GNR Operation Frequency Band:	n2, n5, n7, n25, n38, n41, n66, n78
5GNR Modulation Type:	DFTs-OFDM: BPSK\QPSK\16QAM\64QAM\256QAM CP-OFDM: QPSK\16QAM\64QAM\256QAM
SCS information:	15/30KHz
Antenna Gain:	N2: 5.1dBi (Provided by the manufacturer) N5: 3.9dBi (Provided by the manufacturer) N7: 4.8dBi (Provided by the manufacturer) N25: 5.1dBi (Provided by the manufacturer) N38: 6.4dBi (Provided by the manufacturer) N41: 6.4dBi (Provided by the manufacturer) N66: 5.4dBi (Provided by the manufacturer) N78: 8dBi (Provided by the manufacturer)
LTE CA Band under test	CA_7C, CA_5A-66A, CA_4A-5A, CA_4A-7A, CA_2A-4A, CA_2A-7A, CA_2A-41A, CA_2A-66A, CA_25A-41A, CA_2A-38A
ENDC under test	DC_66A_n78, DC_7A_n78A, DC_2A_n78A, DC_5A_n78A, DC_38A_n78A, DC_66A_n7A, DC_5A_n38A, DC_2A_n38A, DC_26A_n38A, DC_41A_n38A,DC_66A_n38A, DC_5A_n41A, DC_2A_n41A, DC_26A_n41A, DC_66A_n41A, DC_41A_n41A, DC_26A_n78A, DC_41A_n78A, DC_7A_n7A, DC_2A_n7A, DC_7A_n2A, DC_2A_n66A, DC_5A_n66A, DC_7A_n66A, DC_2A_n2A, DC_66A_n66A, DC_66A_n25A, DC_66A_n2A
5GNR CA under test	CA_n38A-n78A, CA_n41A-n78A

Note:

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3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).



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3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30



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4.2 Maximum transmit power

The Power Data is based on the RF Test Report KSCR220600126701.

MPE Calculation

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Note:

- 1)P (mW)
- 2)R = distance to the center of radiation of antenna (in centimeter)
- 3)MPE limit = 1mW/cm²

Test Mode	Frequency Band (MHz)	Max E.I.R.P (dBm)	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit of Power Density S(mW/cm ²)	Result
LTE Band 2	1910	31.1	23	0.194	1.00	Pass
LTE Band 4	1755	29.9	23	0.147	1.00	Pass
LTE Band 5	849	27.75	23	0.147	0.57	Pass
LTE Band 7	2570	30.8	23	0.181	1.00	Pass
LTE Band 25	1915	31.1	23	0.194	1.00	Pass
LTE Band 26	849	27.75	23	0.147	0.57	Pass
LTE Band 38	2620	31.2	23	0.198	1.00	Pass
LTE Band 41	2690	32.3	23	0.255	1.00	Pass
LTE Band 42 (3450-3550MHz)	3550	30	23	0.150	1.00	Pass
LTE Band 42 (3550-3600MHz)	3600	23	23	0.030	1.00	Pass
LTE Band 66	1780	29.9	23	0.147	1.00	Pass
5G NR n2	1910	31.1	23	0.194	1.00	Pass
5G NR n5	849	27.75	23	0.147	0.57	Pass
5G NR n7	2570	30.8	23	0.181	1.00	Pass
5G NR n25	1915	31.1	23	0.194	1.00	Pass
5G NR n38	2620	32.4	23	0.261	1.00	Pass
5G NR n41	2690	32.9	23	0.261	1.00	Pass
5G NR n66	1780	29.9	23	0.147	1.00	Pass
5G NR n78 (3450-3550MHz)	3550	30	23	0.150	1.00	Pass
5G NR n78 (3550-3700MHz)	3700	23	23	0.030	1.00	Pass
WIFI 2.4G	2483.5	33.2	23	0.314	1.00	Pass
U-NII-1	5250	33.2	23	0.314	1.00	Pass
U-NII-2A	5350	27.8	23	0.091	1.00	Pass
U-NII-2C	5725	28	23	0.095	1.00	Pass
U-NII-3	5850	34.5	23	0.424	1.00	Pass

Note:

For the maximum power of NSA mode is the same as SA total power level, so SA standalone total power level MPE can represent NSA mode MPE.

This report was additional U-NII-2 and U-NII-2C, the other test data in this report were copied from the report KSCR220700126703.



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Simultaneous transmission:

SA+ wifi 2.4GHz + wifi 5GHz/ NSA (LTE+ 5G NR)+ wifi 2.4GHz + wifi 5GHz

Wireless Configure	Frequency Range (MHz)	Maximum EIRP (dBm)	Limit of Power Density S(mW/cm ²)	Power Density S at R = 23 cm (mW/cm ²)	Ratio	Limit
5G NR	2690	32.9	1.0	0.261	0.999	1
WIFI 2.4G	2483.5	33.2	1.0	0.314		
WIFI 5G	5850	34.5	1.0	0.424		

LTE+ wifi 2.4GHz + wifi 5GHz

Wireless Configure	Frequency Range (MHz)	Maximum EIRP (dBm)	Limit of Power Density S(mW/cm ²)	Power Density S at R = 23 cm (mW/cm ²)	Ratio	Limit
LTE	2690	32.3	1.0	0.255	0.993	1
WIFI 2.4G	2483.5	33.2	1.0	0.314		
WIFI 5G	5850	34.5	1.0	0.424		

Note:

For the maximum power of NSA mode is the same as SA total power level, so SA standalone total power level MPE can represent NSA mode MPE.

The EUT support simultaneously transmit with:

- (1) 5G NR+ wifi 2.4GHz + wifi 5GHz
- (2) LTE+ wifi 2.4GHz + wifi 5GHz
- (3) ENDC (LTE+ 5G NR)+ wifi 2.4GHz + wifi 5GHz

According to the KDB447498 section 7.2 determine the device is exclusion from SAR test.

--End of the Report--



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