

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300078605

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RF EXPOSURE EVALUATION REPORT

Application No.: SZCR2303000786AT

Applicant: GL Technologies (Hong Kong) Limited

Address of Applicant: Unit 601, Building 5W, Hong Kong Science Park, Shatin, N.T., Hong Kong

Manufacturer: Shenzhen Guanglian Zhitong Technology Co., LTD

Address of Manufacturer: Room 305-306, Skyworth Digital Building, Shiyan Street, Baoan District,

Shenzhen, China

Factory: Shenzhen Guanglian Zhitong Technology Co., LTD

Address of Factory: Room 305-306, Skyworth Digital Building, Shiyan Street, Baoan District,

Shenzhen, China

Equipment Under Test (EUT):

EUT Name: 5G NR Wi-Fi 6 Router

Model No.: GL-X3000NR
Trade Mark: GL.iNET

 FCC ID:
 2AFIW-X3000NR

 Contain FCC ID:
 XMR2022RM520NGL

Standard(s): FCC Rules 47 CFR §2.1091

KDB 447498 D04 interim General RF Exposure Guidance v01

Date of Receipt: 2023-03-23

Date of Evaluation: 2023-03-31 to 2023-04-24

Date of Issue: 2023-04-24

Evaluation Result: Pass*

Keny Xu

Ceny. Ku

EMC Laboratory Manager



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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



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	Revision Record									
Version	Chapter	Date	Modifier	Remark						
01		2023-04-24		Original						

Authorized for issue by:		
	Frank Chen	
	Frank Chen/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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General Information 3

3.1 General Description of E.U.T.

	☐ Portable device
Product Type:	
	☐ Fixed device

3.2 Details of FILT

3.2 Details of E.U.T.	
Power supply:	Adapter Model: ICP30A-120-2500
	Input: AC 100-240V 50/60Hz 0.8A
	Output: DC 12V 2.5A.
Cable(s):	DC cable:100cm unshielded
	Network cable:70cm unshielded
For 2.4G WIFI:	
Operation Fraguency	802.11b/g/n(HT20)/ax(HEW20): 2412MHz to 2462MHz,
Operation Frequency:	802.11n(HT40)/ax(HEW40): 2422MHz to 2452MHz
	802.11b: DSSS (CCK, DQPSK, DBPSK),
Modulation Type:	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
	802.11ax: OFDMA(16QAM, 64QAM, 256QAM, 1024QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20)/ax(HEW20): 11, 802.11n(HT40)/ax(HEW40):7
Channel Spacing:	5MHz
Antenna Type:	Dipole Antenna
Antenna Gain:	ANT1 & ANT2: 1.63dBi; Directional Gain:4.64dBi.
For 5G WIFI:	
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; U-NII-2C: 5500-5700MHz; U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-2A: 5270-5310MHz; U-NII-2C: 5510- 5670MHz; U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz; U-NII-2A: 5290MHz; U-NII-2C: 5530-5610MHz; U-NII-3: 5775MHz
Operation Frequency (160MHz):	5250MHz/5570MHz
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: OFDMA(16QAM, 64QAM, 256QAM, 1024QAM, QPSK, BPSK)
DFS Function:	Master
TPC Function:	Support
Antenna Type:	For ANT1 & ANT2:Dipole Antenna;
/ titorina Typo.	1 of Att 1 a Att 1 2.Dipole Attention,



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	For ANT3:FPC Antenna						
Antenna Gain:	ANT1 &ANT2: 2.5dBi	ANT3:3.65dBi; Directional C	Gain: 7.67dBi.				
For 5G NR:							
	UMTS Band II	1850 to 1910 MHz	1930 to 1990 MHz				
	UMTS Band IV	1710 to 1755 MHz	2110 to 2155 MHz				
	UMTS Band V	824 to 849 MHz	869 to 894 MHz				
	LTE Band 2	1850 to 1910 MHz	1930 to 1990 MHz				
	LTE Band 4	1710 to 1755 MHz	2110 to 2155 MHz				
	LTE Band 5	824 to 849 MHz	869 to 894 MHz				
	LTE Band 7	2500 to 2570 MHz	2620 to 2690 MHz				
	LTE Band 12	699 to 716 MHz	729 to 746 MHz				
	LTE Band 13	777 to 787 MHz	746 to 756 MHz				
	LTE Band 14	788 to 798 MHz	758 to 768 MHz				
	LTE Band 17	704 to 716 MHz	734 to 746 MHz				
	LTE Band 25	1850 to 1915MHz	1930 to 1995 MHz				
Operation Frequency:	LTE Band 26 (814 to 824 MHz)	814 to 824MHz	859 to 869 MHz				
	LTE Band 26 (824 to 849 MHz)	824 to 849 MHz	869 to 894 MHz				
	LTE Band 30	2305 to 2315 MHz	2350 to 2360 MHz				
	LTE Band 38	2570 to 2620 MHz	2570 to 2620 MHz				
	LTE Band 41	2496 to 2690MHz	2496 to 2690MHz				
	LTE Band 42	3450 to 3500 MHz	3450 to 3500 MHz				
	LTE Band 43	3700 to 3800 MHz	3700 to 3800 MHz				
	LTE Band 48	3550 to 3700 MHz	3550 to 3700 MHz				
	LTE Band 66	1710 to 1780 MHz	2110 to 2180 MHz				
	LTE Band 71	663 to 698 MHz	617 to 652 MHz				
	NR Band n2	1850 to 1910 MHz	1930 to 1990 MHz				
	NR Band n5	824 to 849 MHz	869 to 894 MHz				



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NR Band n7	2500 to 2570 MHz	2620 to 2690 MHz
NR Band n12	699 to 716 MHz	729 to 746 MHz
NR Band n13	777 to 787 MHz	746 to 756 MHz
NR Band n14	788 to 798 MHz	758 to 768 MHz
NR Band n25	1850 to 1915MHz	1930 to 1995 MHz
NR Band n26 (814 to 824 MHz)	814 to 824MHz	859 to 869 MHz
NR Band n26 (824 to 849 MHz)	824 to 849 MHz	869 to 894 MHz
NR Band n30	2305 to 2315 MHz	2350 to 2360 MHz
NR Band n38	2570 to 2620 MHz	2570 to 2620 MHz
NR Band n41	2496 to 2690 MHz	2496 to 2690 MHz
NR Band n66	1710 to 1780 MHz	2110 to 2180 MHz
NR Band n70	1695 to 1710 MHz	1995 to 2020 MHz
NR Band n71	663 to 698 MHz	617 to 652 MHz
NR Band n77	3700 to 3980 MHz	3700 to 3980 MHz
NR Band nr	3450 to 3550 MHz	3450 to 3550 MHz
NR Band n78	3700 to 3800 MHz	3700 to 3800 MHz
INK Danu 1170	3450 to 3550 MHz	3450 to 3550 MHz
GNSS (BDS+		
Galileo+ GLONASS+	N/A	1559-1610
GPS+ SBAS)		
	1	

Operation Frequency:

CA:

UL CA 2C; UL CA 5B; UL CA 7C; UL CA 38C; UL CA 41C; UL CA 43C;

UL CA_66C; UL CA_66B; UL CA_48C; UL CA_42C;

UL CA_2A-4A; UL CA_2A-5A; UL CA_2A-7A; UL CA_2A-12A; UL CA_2A-13A;

UL CA_2A-30A; UL CA_2A-66A;

UL CA_4A-5A; UL CA_4A-7A; UL CA_4A-12A; UL CA_4A-13A;

UL CA_4A-30A;

UL CA_5A-7A; UL CA_5A-30A; UL CA_5A-66A;

UL CA_12A-30A; UL CA_12A-66A; UL CA_13A-66A; UL CA_14A-30A;

ENDC:

DC_13A_n66A;DC_5A_n2A;DC_14A_n2A;DC_30A_n2A;DC_2A_n5A;



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DC 30A n5A;DC 66A n5A;DC 2A n12A;DC 66A n12A;DC 2A n66A; DC 5A n66A;DC 12A n66A;DC 14A n66A;DC 30A n66A;DC 12A n2A; DC_66A_n2A;DC_71A_n2A;DC_12A_n41A;DC_71A_n66A;DC_2A_n71A DC_66A_n71A;DC_66A_n25A;DC_25A_n41A;DC_12A_n78A;DC_13A_n78A DC_25A_n78A;DC_12A_n77A;DC_13A_n77A;DC_14A_n77A;DC_26A_n78A DC_2A_n78A;DC_26A_n41A;DC_2A_n41A;DC_7A_n5A;DC_38A_n78A DC_7A_n71A;DC_41A_n78A;DC_5A_n7A;DC_12A_n7A;DC_66A_n7A DC 13A n2A;DC 48A n5A;DC 48A n66A;DC 7A n66A; DC 4A n78A;DC 20A n77A DC_5A_n78A;DC_4A_n41A;DC_66A_n38A;DC_2A_n38A;DC_12A_n38A DC_4A_n38A;DC_5A_n38A;DC_66A_n78A;DC_12A_n25A;DC_25A_n77A DC_2A_n77A;DC_71A_n78A;DC_71A_n38A;DC_13A_n7A;DC_5A_n41A DC 66A n41A;DC 2A n7A;DC 7A n2A;DC 5A n40A;DC 30A n77A DC_41A_n77A;DC_7A_n78A;DC_48A_n25A;DC_66A_n28A;DC_71A_n41A DC_28A_n66A;DC_30A_n12A;DC_2A_n14A;DC_30A_n14A;DC_66A_n14A DC_2A_n30A;DC_5A_n30A;DC_12A_n30A;DC_14A_n30A;DC_66A_n30A DC_71A_n7A;DC_7A_n12A;DC_5A_n77A;DC_66A_n77A;DC_71A_n77A DC_4A_n2A;DC_7A_n25A;DC_71A_n25A;DC_5A_n25A;DC_26A_n25A DC_4A_n7A;DC_13A_n25A;DC_7A_n77A;DC_48A_n71A;DC_48A_n12A NR UL CA: n25A-n41A;n41A-n66A;n41A-n71A;n7A-n78A;n5A-n78A n66A-n78A;n7A-n77A;n2A-n77A;n5A-n77A;n66A-n77A n30A-n77A;n71A-n77A;n71A-n78A;n25A-n78A;n38A-n66A n25A-n77A;n25A-n38A;n13A-n77A

Antenna Type:	Dipole Antenna			
	660-960MHz:0.11dBi;1710-2170MHz:2.01 dBi;			
Antenna Gain:	2170-2690MHz:1.42 dBi;3300-4000MHz:2.33 dBi			
	(Note: This device changed the antenna gain as above.)			
Note:Based on Module certification(FCC ID: XMR2022RM520NGL)				

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3.3 Separation Distance

Minimum test separation distance: 20cm

Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and

platform requirements, to any part of the body or extremity of a user or bystander.

3.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

3.5 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None



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FCC Radiofrequency radiation exposure limits 4

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of §1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

4.2 MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table B.1—Thresholds For Single RF Sources Subject to Routine Environmental Evaluation

RF Source Frequency			Minimum Distance			Threshold ERP
f∟ MHz		f _H MHz	λ∟ / 2π		λн / 2π	W
0.3	_	1.34	159 m	_	35.6 m	1,920 R ²
1.34	-	30	35.6 m	_	1.6 m	3,450 R ² /f ²
30	-	300	1.6 m	_	159 mm	3.83 R ²
300	_	1,500	159 mm	_	31.8 mm	0.0128 R ² f
1,500	_	100,000	31.8 mm	_	0.5 mm	19.2R ²

Subscripts L and H are low and high; λ is wavelength.

From §1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.

The table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are



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based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.

For mobile devices that are not exempt per Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in §1.1310 is necessary if the ERP of the device is greater than ERP20cm in Formula (B.1) [repeated from §2.1091(c)(1); also in §1.1307(b)(1)(i)(B)].

$$P_{\text{th}} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

Limit calculation							
Frequency range	Frequency(MHz)	R(λ/2π)(m)	Threshold ERP(W)				
300~1500MHz	915	0.0522	0.032				
1500~100000MHz	2480	0.0193	0.007				

4.3 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of $\lambda/4$.

As for devices with antennas of length greater than $\lambda/4$ where the gain is not well defined, but always less than that of a half-wave dipole (length $\lambda/2$), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.



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The SAR-based exemption formula of §1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B. 2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20}\operatorname{cm}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1).





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Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency		Distance(mm)								
(MHz)	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

Limit calculation								
Frequency range(GHz)	Frequency(GHz)	Х	Distance(cm)	Pth (mW)				
0.3~1.5	0.915	1.474	0.5	8.133				
1.5~6	2.48	1.905	0.5	2.717				



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5 Measurement and Calculation

5.1 Maximum transmit power

For 2.4G WIFI:

The Power Data is based on the RF Test Report SZCR230300078602.

Antenna Gain: ANT1 & ANT2: 1.63dBi; Directional Gain: 4.64dBi.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Maximum EIRP [dBm]	Maximum EIRP (mW)	Limit (mW)	Ratio	Result
2462	18.57+4.64=23.21	209.41	3060	0.07	Pass

For 5G WIFI:

The Power Data is based on the RF Test Report SZCR230300078603.

Antenna Gain: ANT1 &ANT2: 2.5dBi ANT3:3.65dBi; Directional Gain: 7.67dBi.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Maximum EIRP [dBm]	Maximum EIRP (mW)	Limit (mW)	Ratio	Result
5795	21.08+7.67=28.75	749.89	3060	0.25	Pass

For 3G/4G/5G:

Based on Module certification(FCC ID: XMR2022RM520NGL), refer to test Max Conducted Peak Output Power value.

The distance r calculated from the far-field transmission formula is at distances 20 cm or greater from any object.

Test Mode	Max Conducted Power (dBm)	Antenna Gain (dBi)	Max Power (mW)	Limit (mW)	Ratio	Result
WCDMA B2	25	2.01	502.34	3060.00	0.16	Pass
1850-1910	25	2.01	502.54	3000.00	0.10	Fass
WCDMA B4	25	2.01	502.34	3060.00	0.16	Pass
1710-1755	25	2.01	502.54	3000.00	0.10	r a55
WCDMA B5	25	0.11	324.34	1680.96	0.19	Pass
824-849	25	0.11	324.34	1000.90	0.19	FaSS
LTE B2/CA_2C/n2	25	2.01	502.34	3060.00	0.16	Pass



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1850-1910						
LTE B4	25	2.04	E00.04	2060.00	0.40	Desc
1710-1755	25	2.01	502.34	3060.00	0.16	Pass
LTE B5/CA_5B/n5	25	0.11	324.34	1680.96	0.19	Pass
824-849						
LTE B7/CA_7C/n7	25	1.42	438.53	3060.00	0.14	Pass
2500-2570						
LTE B12/n12 699-716	25	0.11	324.34	1425.96	0.23	Pass
LTE B13/n13	25	0.11	324.34	1585.08	0.20	Pass
777-787		0.11	02 1.0 1	1000.00	0.20	1 400
LTE B14/n14 788-798	25	0.11	324.34	1607.52	0.20	Pass
LTE B17	25	0.11	324.34	1436.16	0.23	Pass
704-716	25	0.11	324.34	1430.10	0.23	r ass
LTE B25/n25	25	2.01	502.34	3060.00	0.16	Pass
1850-1915						
LTE B26/n26	25	0.11	324.34	1660.56	0.20	Pass
814-824						
LTE B26/n26 824-849	25	0.11	324.34	1680.96	0.19	Pass
LTE B30/n30						
2305-2315	25	1.42	438.53	3060.00	0.14	Pass
LTE B38/CA_38C/n38	00	4.40	074.00	2222.22	2.22	
2570-2620	28	1.42	874.98	3060.00	0.29	Pass
LTE B48/CA_48C	25	2.33	540.75	3060.00	0.18	Pass
3550-3700		2.00	0 10.7 0	0000.00	0.10	1 400
LTE B41/CA_41C/n41	28	1.42	874.98	3060.00	0.29	Pass
2496-2690		···-			0.20	. 300
LTE B42/CA_42C	28	2.33	1078.95	3060.00	0.35	Pass
3450-3500						
LTE B43 3700-3800	28	2.33	1078.95	3060.00	0.35	Pass
LTE B66/n66						_
1710-1780	25	2.01	502.34	3060.00	0.16	Pass
NR n70	05	0.04	F00.04	2000 00	0.40	Dass
1695-1710	25	2.01	502.34	3060.00	0.16	Pass



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LTE B71/n71	25	0.11	324.34	1352.52	0.24	Poss
663-698	25	0.11	324.34	1332.32	0.24	Pass
NR N77						
3700-3980	25	3.3	676.08	3060.00	0.22	Pass
3450-3550						
NR N78						
3700-3800	25	2.33	540.75	3060.00	0.18	Pass
3450-3550						

RF Exposure Calculation

Remark: we used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.

Exposure condition for simultaneous transmission operations

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluatedk term) shall be used to determine exemption for simultaneous transmission according to Formula (C.1) [repeated from § 1.1307(b)(3)(ii)(B)].

$$\sum_{i=1}^{a} \frac{P_i}{P_{\text{th},i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{\text{th},j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$
 (C. 1)

Remark:

- a -number of fixed, mobile, or portable RF sources claiming exemption using the §1.1307(b)(3)(i)(B) formula for Pth, including existing exempt transmitters and those being added.
- b -number of fixed, mobile, or portable RF sources claiming exemption using the applicable § 1.1307(b)(3)(i)(C) Table 1 formula for Threshold ERP, including existing exempt transmitters and those being added.
- c -number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance.
- Pi -the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).
- Pth,i -the exemption threshold power (Pth) according to the § 1.1307(b)(3)(i)(B) formula for fixed, mobile, or portable RF source i.

ERPj -the available maximum time-averaged power or the ERP, whichever is greater, of fixed, mobile, or portable RF source j. ERPth,j -exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$, according to the applicable § 1.1307(b)(3)(i)(C) Table 1 formula at the location in question.



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Evaluated_k -the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation.

Exposure Limit_k -either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable sources, as applicable

Due to the EUT support ENDC and CA, The worst-case (CA_42C) situation is 0.35+0.35=0.70

The sum of the ratios =5G WiFi +CA=0.25+0.70 = 0.95 < 1

Therefore, the device is to qualify for simultaneous transmission SAR test exemption, the exemption report is in lieu of the SAR report.



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EUT Constructional Details (EUT Photos) 6

Refer to External and Internal Photos for SZCR2303000786AT.

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