Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

Request for Class II Permissive Change

Dear Sir/Madam,

Subject: FCC Class II permission change for FCC ID: XMR2023RM520NGL

Original Grant Date: 07/23/2023

This project is a CIIPC submission to our product: 5G Sub-6 GHz M.2 Module, model: RM520N-GL, the device is identical to the previous certified except for the changes as below:

Model name	Original		New	New			Remark	
RM520N-GL	1.Antenna type			ntenna type	e	Hardware is the same, only		
	Antenna Type: ☐ External,		II, Ext	ernal Anten	na-			the antenna has changed
	2.Related gain			PIFA Antennad				and tune up has been
	LTE-B30 -5.7		2.Re	lated gain		reduced for some bands.		
	LTE-B38	-0.23	I 💳	LTE-B30		3	H	
	LTE-B41	0.78		LTE-B38		.4		
	LTE-B42	-6.1					_	
	LTE-B43	-6.1		LTE-B41		.4		
	LTE-B48	-6.1		LTE-B42		1	_	
	172 010	-0.1	-	LTE-B43		1	L	
				LTE-B48	1	1		
	NR-n30	-5.7	t 💳	TE DOC			Γ	
	NR-n38	-0.23	† I			1		
	NR-n41	0.78	+ -	NR-n30	-3	3		
			+ -	NR-n38	2.4	4		
	NR-n48	-6.1		NR-n41	2.4			
	NR-n77	-6.1		NR-n48	1			
	NR-n78	-6.1		NR-n77	1			
	3 Related tune	un		NR-n78	1			
	3. Related tune	up		NR-n78	1			
	_		_ 3 P.	NR-n78	1			
	LTE Band 30-P	23년 +2	3. Re		1			
	LTE Band 30-2 LTE Band 38/LTE CA_38C-2	23 ^{c1} +2 26 ^{c1} +2	3. Re	NR-n78 elated tune	1			
	LTE Band 30 th LTE Band 38/LTE CA_38C th LTE Band 41/LTE CA_41C th	23.0 +2 26.0 +2 26.0 +2	3. Re	NR-n78 elated tune	e up	22 ₽	±1+1	
	LTE Band 30-2 LTE Band 38/LTE CA_38C-2	23 ^{c1} +2 26 ^{c1} +2	3. Re	NR-n78 elated tune	e up		±163 ±163	
	LTE Band 30-3 LTE Band 38/LTE CA_38C-3 LTE Band 41/LTE CA_41C-3 LTE Band 42/LTE CA_42C-3	23± +2 26± +2 26± +2 26± +2	3. Re	NR-n78 elated tune	e up	22 ₽		
	LTE Band 30-6 LTE Band 38/LTE CA_38C-6 LTE Band 48/LTE CA_41C-6 LTE Band 42/LTE CA_42C-6 LTE Band 43/LTE CA_43C-6	23.3 +2 26.9 +2 26.9 +2 26.9 +2 26.9 +2	3. Ro	NR-n78 elated tune	e up	22년 24년	±1€	
	LTE Band 30-6 LTE Band 38/LTE CA_38C-6 LTE Band 48/LTE CA_41C-6 LTE Band 42/LTE CA_42C-6 LTE Band 43/LTE CA_43C-6	23.3 +2 26.3 +2 26.3 +2 26.4 +2 26.4 +2 23.3 +2	3. Ro	NR-n78 elated tune and 30- and 38/LTE CA_380 and 41/LTE CA_410	1 e up	22년 24년 26년	±10 ±10	
	LTE Band 30-3 LTE Band 38/LTE CA_38C-3 LTE Band 41/LTE CA_41C-3 LTE Band 42/LTE CA_42C-3 LTE Band 43/LTE CA_43C-3 LTE Band 48/LTE CA_48C-3	23.3 +2 26.3 +2 26.3 +2 26.4 +2 26.4 +2 23.3 +2	3. Ro	elated tune and 30- and 38/LTE CA_380 and 41/LTE CA_410 and 42/LTE CA_420 and 43/LTE CA_430	1 e up	22-2 24-2 26-2 21-2	±1¢ ±1¢ ±1¢	
	LTE Band 30-1 LTE Band 38/LTE CA_38C-1 LTE Band 41/LTE CA_41C-1 LTE Band 42/LTE CA_42C-1 LTE Band 43/LTE CA_43C-1 LTE Band 48/LTE CA_48C-1 NR Band n30°-1	23.3 +2 26.9 +2 26.9 +2 26.9 +2 26.9 +2 23.9 +2 23.9 +2	3. Ro	elated tune and 30- and 38/LTE CA_38C and 41/LTE CA_41C and 42/LTE CA_42C	1 e up	22.2 24.2 26.2 21.2 21.2	±10 ±10 ±10 ±10	
	LTE Band 30-4 LTE Band 38/LTE CA_38C-4 LTE Band 41/LTE CA_41C-5 LTE Band 42/LTE CA_42C-5 LTE Band 43/LTE CA_43C-5 LTE Band 48/LTE CA_48C-5 NR Band n30*-5 NR Band n30*-7 NR Band n38/ n38 MIMO-6	23.3 +2 26.3 +2 26.3 +2 26.3 +2 26.3 +2 23.3 +2 23.4 +2 23.4 +2 26.4 +	3. Ro	elated tune and 30- and 38/LTE CA_380 and 41/LTE CA_410 and 42/LTE CA_420 and 43/LTE CA_430	1 e up	22.2 24.2 26.2 21.2 21.2	±10 ±10 ±10 ±10	
	LTE Band 30-3 LTE Band 38/LTE CA_38C-3 LTE Band 41/LTE CA_41C-3 LTE Band 42/LTE CA_42C-3 LTE Band 43/LTE CA_43C-3 LTE Band 43/LTE CA_48C-3 NR Band n30'-3 NR Band n30'-3 NR Band n30'-3 NR Band n30'-3 NR Band n41-3	23d +2 26d +2 26d +2 26d +2 26d +2 26d +2 23d +2 23d +2 28d +2 28d +2 28d +2 42	3. Ro	elated tune and 30- and 38/LTE CA_380 and 41/LTE CA_410 and 42/LTE CA_420 and 43/LTE CA_430	1 e up	22.2 24.2 26.2 21.2 21.2	±10 ±10 ±10 ±10	
	LTE Band 30-2 LTE Band 48/LTE CA_38C-2 LTE Band 48/LTE CA_41C-2 LTE Band 42/LTE CA_42C-2 LTE Band 48/LTE CA_43C-2 LTE Band 48/LTE CA_48C-2 NR Band n30*/-2 NR Band n30*/-3 NR Band n41*/-1048 MIMO-2 NR Band n41*/-1048 MIMO-2 NR Band n41*/-1048 MIMO-2	23.3	3. Ro	elated tune and 30+ and 38/LTE CA_380 and 41/LTE CA_410 and 43/LTE CA_420 and 43/LTE CA_430 and 48/LTE CA_480	e up	22년 24년 26년 21년 21년 21년	±160 ±160 ±160 ±160 ±160	
	LTE Band 30-3 LTE Band 38LTE CA_38C-3 LTE Band 47LTE CA_41C-3 LTE Band 42/LTE CA_42C-3 LTE Band 43/LTE CA_43C-3 LTE Band 48/LTE CA_48C-3 NR Band n30*-3 NR Band n30*-1 NR Band n41*-3 NR	23.3 +2 26.3 +2 26.3 +2 26.3 +2 26.3 +2 23.3 +2 23.4 +2 23.4 +2 26.4 +	3. Ro 2-2-1 2-2-2 2-2-2 2-3 2-3-3 2-3-3 2-2-1 NR Ba NR Ba	elated tune and 30 and 38/LTE CA_380 and 41/LTE CA_410 and 43/LTE CA_420 and 43/LTE CA_430 and 48/LTE CA_480	E up	224 244 264 214 214 214 214	±10 ±10 ±10 ±10 ±10 ±10	
	LTE Band 30-3 LTE Band 38.TE CA_38C-3 LTE Band 47.LTE CA_41C-3 LTE Band 47.LTE CA_42C-3 LTE Band 47.LTE CA_42C-3 LTE Band 47.LTE CA_48C-3 NR Band 47.TE CA_48C-3 NR Band n38/ n38 MIMO-3 NR Band n44-3 NR Band n44	23.4 +2 26.5 +2 26.5 +2 26.5 +2 26.5 +2 23.5 +2 23.5 +2 26.6 +2 26.6	3. Ro 22-1 22-2 22-2 23-2 24 25-2 25-2 25-3 25-3 25-3 25-3 25-3 25-3	elated tune and 30 and 38/LTE CA_380 and 41/LTE CA_410 and 43/LTE CA_430 and 43/LTE CA_430 and 48/LTE CA_480 and n30* and n30* and n30* and n38/ n38 MIMO	E up	224 244 264 214 214 214 214 224 224	±10 ±10 ±10 ±10 ±10 ±10	
	LTE Band 30-3 LTE Band 38/LTE CA_38C-3 LTE Band 48/LTE CA_41C-3 LTE Band 42/LTE CA_42C-3 LTE Band 43/LTE CA_43C-3 LTE Band 48/LTE CA_48C-3 NR Band n30*-3 NR Band n30*-3 NR Band n41*-3	23-3 +2 26-3 +2 26-3 +2 26-3 +2 26-3 +2 26-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2 23-3 +2	3. RG 22-1 22-2 23-2 24-2 25-2 25-2 25-2 25-2 25-2 25-2 25	elated tune and 30 and 38/LTE CA_380 and 41/LTE CA_410 and 43/LTE CA_420 and 43/LTE CA_430 and 48/LTE CA_480 and n30* and n30* and n30 n38 MIMO and n41/ n41 MIMO	E up	2242 2442 2642 2142 2142 2142 2242 2442 26.542	±10 ±10 ±10 ±10 ±10 ±10 ±10 ±10	
	LTE Band 30-3 LTE Band 38.TE CA_38C-3 LTE Band 47.LTE CA_41C-3 LTE Band 47.LTE CA_42C-3 LTE Band 47.LTE CA_42C-3 LTE Band 47.LTE CA_48C-3 NR Band 47.TE CA_48C-3 NR Band n38/ n38 MIMO-3 NR Band n44-3 NR Band n44	23-3 +2 26-3 +2 26-3 +2 26-3 +2 26-3 +2 26-3 +2 23-3 +2 26-3 +	3. R6 2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	elated tune and 30 and 38/LTE CA_380 and 41/LTE CA_410 and 43/LTE CA_420 and 43/LTE CA_430 and 48/LTE CA_480 and n30* and n30* and n30 n38 MIMO and n41/ n41 MIMO	E up	2242 2442 2642 2142 2142 2142 2242 2442 26.542	±10 ±10 ±10 ±10 ±10 ±10 ±10 ±10	
	LTE Band 30-3 LTE Band 38/LTE CA_38C-3 LTE Band 48/LTE CA_41C-3 LTE Band 42/LTE CA_43C-3 LTE Band 48/LTE CA_43C-3 LTE Band 48/LTE CA_48C-3 NR Band n38/ n38 MIMO-3 NR Band n41-3 NR Band n44 MIMO-3 NR Band n47 n48 MIMO-3 NR Band n47 n48 MIMO-3 NR Band n77-3 NR Band n77-3	23d +2 26d +2 23d +2 23d +2 26d +2 26	3. R6 2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	elated tune and 30-3 and 38/LTE CA_38C and 44/LTE CA_42C and 43/LTE CA_43C and 48/LTE CA_48C and 48/LTE CA_48C and 130*43 and 138 MIMO- and 14/1 141 MIMO- and 148/1 148 MIMO- and 148/1 1	E up	224 244 244 244 244 244 244 244 244 244	±10 ±10 ±10 ±10 ±10 ±10 ±10 ±10 ±10	
	LTE Band 30-3 LTE Band 38/LTE CA_38C-3 LTE Band 43/LTE CA_41C-3 LTE Band 42/LTE CA_42C-3 LTE Band 43/LTE CA_43C-3 LTE Band 43/LTE CA_48C-3 NR Band n30/-3 NR Band n30/-3 NR Band n41-3 NR Band n41-1 NR Band n44-1 NR Band n47-1 NR Band n77-3 NR Band n77-1	23.3	3. R6 2-2-1 2-3-1	elated tune and 30-3 and 38/LTE CA_38C and 44/LTE CA_42C and 43/LTE CA_43C and 48/LTE CA_48C and 48/LTE CA_48C and 130*43 and 138 MIMO- and 14/1 141 MIMO- and 148/1 148 MIMO- and 148/1 1	E up	224 244 244 244 244 244 244 244 244 244	±10 ±10 ±10 ±10 ±10 ±10 ±10 ±10 ±10	

The test strategy reference is as follows:

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Case	Remark				
Part22,24,27,90, 96	RF: Perform power testing on the updated tune up bands. Recalculate EIRP for the				
	updated bands of gain.				
	RSE: New test on related bands				

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Shanghai 200233, China

	Other data are based on the original data.
Part 2.1091	RF Exposure Evaluation Reassessment
TTI I	
Thank you.	
Sincerely.	
Data	0000/44/00
Date:	2023/11/03
Name:	Jean Hu
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Signature:	Jenn