

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250400127101

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TEST REPORT

Application No.: SZCR2504001271MO **Applicant:** Rolling Wireless S.à r.l.

Address of Applicant: 8-10 rue Mathias Hardt 1717 Luxembourg

Manufacturer: Rolling Wireless S.à r.l.

Address of Manufacturer: 8-10 rue Mathias Hardt 1717 Luxembourg

EUT Description: RN934V Model No.: **RN934V**

Trade Mark: Rolling Wireless FCC ID: 2AX2URN934V

47 CFR Part 2

Standards: 47 CFR Part 22

47 CFR Part 27

Date of Receipt: 2025/04/02

Date of Test: 2025/04/08 to 2025/05/09

Date of Issue: 2025/05/13

PASS * Test Result:





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In the configuration tested, the EUT detailed in this report complied with the standards specified above.



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Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2025/05/13		Original		

Authorized for issue by:		
	Dorjan. Huang	
	Donjon Huang / Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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2 Test Summary

2.1 LTE Band 5/ CA 5B

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W		Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Refer to the	Pass
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Appendixs	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §22.355	±2.5ppm.		Pass



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2.2 LTE Band 7/38/41/CA 7C/ CA 38C/ CA 41C

	110 7/36/41/CA_7C			
Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W		Pass
Peak-Average Ratio		≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(m)(4)	For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.	Refer to the Appendixs	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz XMHz 10th harmonics X=Max {6MHz, EBW}		Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz x MHz 10th harmonics X=Max {6MHz, EBW}		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.		Pass



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4 General Information

4.1 General Description of EUT

Hardware Version:	1					
Software Version:	AFPQ52XA_01.13.03.00					
Power Supply:	DC 4V					
INACL	RF Conducted	355628150	0000130			
IMEI:	RSE	355628150	0000106			
Antenna Type:						
HPUE Power Class:	Class 2: LTE Band 41					
	LTE Band 5: -0.5dBi		LTE Band 7:	-2.5dBi		
	LTE Band 38: 3.0dBi		LTE Band 41: 2.9dBi			
	LTE CA_5B: -0.5dBi		LTE CA_7C:	-2.5dBi		
Antenna Gain:	LTE CA_38C: 3.0dBi		LTE CA_41C	: 2.9dBi		
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.					
57		30MHz ~ (0.6		1000MHz ~ 2000MHz (0.8dB)		
RF Cable:	2000MHz ~ 4000MHz (1.1dB)	4000MHz ~ 6000MHz (1.8dB)		6000MHz ~ 12750MHz (2.6dB)		
	Above 12750MHz(3.5dB)					

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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4.2 Test Mode

Test Mode	Test Modes Description			
LTE/TM1	LTE system, QPSK modulation			
LTE/TM2	LTE system, 16QAM modulation			
LTE/TM3	LTE system, 64QAM modulation			
LTE/TM4 LTE system, 256QAM modulation				
Remark: The test mode(s) are selected according to relevant radio technology specifications.			

4.3 Test Environment

NT: Normal Temperature

Environment Parameter	101 kPa Selected Values During Tests			
Relative Humidity	44-4	46 % RH Ambient		
Value	Temperature(°C)	Voltage(V)		
NTNV	22~23	4.0		
LTLV	-30	3.4		
LTHV	-30	4.2		
HTLV	50	3.4		
HTHV	50	4.2		
Remark:				
NV: Normal Voltage LV: Lov	v Extreme Test Voltage	HV: High Extreme Test Voltage		

4.4 Description of Support Units

Description	Manufacturer	Model No.	
Motherboard	ROLLING	5307306_REV_3	
Adapter	MEAN WELL	GST60A12	

LT: Low Extreme Test Temperature



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HT: High Extreme Test Temperature



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4.5 Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.41dB
2	RF power density, conducted	±1.96dB
3	Spurious emissions, conducted	±0.41dB
4	Radio Frequency	±7.10 x 10 ⁻⁸
5	Duty Cycle	±0.49%
6	Occupied Bandwidth	±0.2%
		±4.8dB (30MHz-1GHz)
7	Dedicted Organicae agricultural (UT)	±4.68dB (1GHz-6GHz)
7	Radiated Spurious emission test(UE)	±4.52dB (6GHz-18GHz)
		±5.26dB (18GHz-40GHz)

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.





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4.6 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, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.7 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.





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4.8 Technical Specification

Characteristics	Description					
Radio System Type	□ LTE					
	Band	TX		RX	RX	
	LTE Band 5	824 to 849	MHz	869 to 89	869 to 894 MHz	
	LTE Band 7	2500 to 25	70 MHz	2620 to 2	2690 MHz	
	LTE Band 38	2570 to 26	20 MHz	2570 to 2	2620 MHz	
Supported Frequency Range	LTE Band 41	2496 to 26	90MHz	2496 to 2	2690MHz	
	LTE CA_5B	824 to 849	MHz	869 to 89	94 MHz	
	LTE CA_7C	2500 to 25	570 MHz	2620 to 2	2690 MHz	
	LTE CA_38C	2570 to 26	20 MHz	2570 to 2	2620 MHz	
	LTE CA_41C	2496 to 26	90MHz	2496 to 2	2690MHz	
	LTE Band 5	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz	
	LTE Band 7	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
	LTE Band38	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
	LTE Band41	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
		⊠10MHz+20MHz		⊠15MHz+	⊠15MHz+20MHz	
	LTE Band CA 7C	⊠15MHz+10MHz		⊠20MHz+10MHz		
Cupported Channel Bandwidth	_	⊠15MHz+15MHz		⊠20MHz+	⊠20MHz+15MHz	
Supported Channel Bandwidth		⊠20MHz+20MHz				
	LTE Band CA_38C	⊠15MHz+	15MHz	⊠20MHz+	⊠20MHz+20MHz	
		⊠5MHz+20MHz		⊠10MHz+	⊠10MHz+15MHz	
		⊠10MHz+20MHz		⊠15MHz+	⊠15MHz+10MHz	
	LTE Band CA_41C	⊠15MHz+15MHz		⊠15MHz+	20MHz	
		⊠20MHz+	5MHz	⊠20MHz+	10MHz	
		⊠20MHz+	15MHz	⊠20MHz+	20MHz	



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4.9 Equipment List

RF conducted test						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)	
Humidity/ Temperature Indicator	Deli	8838	SEM002-40	2024/07/24	2025/07/23	
Spectrum Analyzer	KEYSIGHT	N9020A	SEM004-19	2025/01/07	2026/01/06	
Spectrum Analyzer	Agilent	N9020A	SZ-WRG-M-018	2024/05/24	2025/05/23	
DC power supply	HYELEC	HY3005B	SZ-WRG-M-044	2024/08/21	2025/08/20	
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	SZ-WRG-M-033	2025/01/07	2026/01/06	
Wideband Radio Communication Tester	Anristu	MT8821C	SZ-WRG-M-042	2024/06/21	2025/06/20	
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024/07/30	2025/07/29	
Signal Generator	KEYSIGHT	N5182A	SZ-WRG-M-041	2025/01/07	2026/01/06	
Test Software	TST PASS	TST PASS V2.0	N/A	NCR	NCR	



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Radiated spurious emissions							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
MXE EMI receiver(3Hz- 3.6GHz)	KEYSIGHT	N9038B	SEM004-29	2024/08/14	2025/08/13		
Signal &Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025/01/07	2026/01/06		
Pre- amplifier(30MHz- 1GHz)	SGS	AMP30M1G30	SEM005-33	2025/03/04	2026/03/03		
Low Noise Amplifier 30M- 8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025/01/07	2026/01/06		
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025/01/07	2026/01/06		
Low Noise Amplifier 18G- 40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025/01/08	2026/01/07		
Active Loop Antenna 9kHz- 30MHz	SCHWARZBECK	FMZB 1519B	SZ-WRG-M-053	2023/12/25	2025/12/24		
TRILOG Breitband Antenne 30MHz- 1GHz	SCHWARZBECK	VULB 9168	SZ-WRG-M-054	2023/12/25	2025/12/24		
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023/12/21	2025/12/20		
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023/12/25	2025/12/24		
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-M-058	NCR	NCR		
RE Test Software	Tonscend	JS32-RE V4.0.0	SZ-WRG-M-059	NCR	NCR		
Measurement Software	AUDIX	e3 V8.2014-6- 27	NCR	NCR	NCR		
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025/01/06	2028/01/05		
Humidity/ Temperature Indicator	Deli	8838	SEM002-46	2024/07/24	2025/07/23		
Spectrum Analyzer	Keysight	N9020A	SZ-WRG-M-002	2024/08/17	2025/08/16		
Radio Communication Tester	Anritsu	MT8821C	SZ-WRG-M-014	2024/08/19	2025/08/18		

Remark: NCR=No Calibration Requirement.



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4.10Test Frequencies

Took Mode	Dana alimitalis	TV / DV		RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 20407	Channel 20525	Channel 20643
		TX	824.7 MHz	836.5 MHz	848.3 MHz
	1.4MHz	RX	Channel 2407	Channel 2525	Channel 2643
		KΛ	869.7 MHz	881.5 MHz	893.3 MHz
			Channel 20415	Channel 20525	Channel 20635
		TX	825.5 MHz	836.5 MHz	847.5 MHz
	3MHz	RX	Channel 2415	Channel 2525	Channel 2635
LTE Davide			870.5 MHz	881.5 MHz	892.5 MHz
LTE Band 5			Channel 20425	Channel 20525	Channel 20625
	5N41 I-	TX	826.5 MHz	836.5 MHz	846.5 MHz
	5MHz	RX	Channel 2425	Channel 2525	Channel 2625
		KΛ	871.5 MHz	881.5 MHz	891.5 MHz
			Channel 20450	Channel 20525	Channel 20600
		TX	829 MHz	836.5 MHz	844 MHz
	10MHz	RX	Channel 2450	Channel 2525	Channel 2600
		KΛ	874 MHz	881.5 MHz	889 MHz

Took Mode	Donalisidah	TV / DV		RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 20775	Channel 21100	Channel 21425
		TX	2502.5 MHz	2535 MHz	2567.5 MHz
	5MHz	RX	Channel 2775	Channel 3100	Channel 5825
		KΛ	2622.5 MHz	2655 MHz	2687.5 MHz
			Channel 20800	Channel 21100	Channel 21400
		TX	2505 MHz	2535 MHz	2565 MHz
	10MHz	RX	Channel 2800	Channel 3100	Channel 3400
LTE D			2625 MHz	2655 MHz	2685 MHz
LTE Band 7		TX	Channel 20825	Channel 21100	Channel 21375
	45141		2507.5 MHz	2535 MHz	2562.5 MHz
	15MHz	RX	Channel 2825	Channel 3100	Channel 3375
		KΛ	2627.5 MHz	2655 MHz	2682.5 MHz
			Channel 20850	Channel 21100	Channel 21350
		TX	2510 MHz	2535 MHz	2560 MHz
	20MHz	RX	Channel 2850	Channel 3100	Channel 3350
		INΛ	2630 MHz	2655 MHz	2680 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel				
i est ivioue	Dariuwiuiri	17/87	Low (L)	Middle (M)	High (H)		
	5MHz	TX/RX	Channel 37775	Channel38000	Channel 38225		
	SIVITZ	IA/IXA	2572.5 MHz	2595 MHz	2617.5 MHz		
	10MHz	TX/RX	Channel 37800	Channel38000	Channel 38200		
LTE Band 38	TOIVITZ		2575 MHz	2595 MHz	2615 MHz		
LIE Danu 30	15MHz	TX/RX	Channel 37825	Channel38000	Channel 38175		
	TOIVINZ	17/107	2577.5 MHz	2595 MHz	2612.5 MHz		
	20MHz	TX/RX	Channel 37850	Channel38000	Channel 38150		
	ZUIVIMZ	17/1/	2580 MHz	2595 MHz	2610 MHz		

Toot Mode	Dondwidth	TV / DV	RF Channel				
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)		
			Channel 39675	Channel40620	Channel 41565		
	5MHz	TX / RX	2498.5 MHz	2593 MHz	2687.5 MHz		
			Channel 39700	Channel40620	Channel 41540		
LTE Band 41	10MHz	TX / RX	2501 MHz	2593 MHz	2685 MHz		
(2496-2690)			Channel 39725	Channel40620	Channel 41515		
,	15MHz	TX / RX	2503.5 MHz	2593 MHz	2682.5 MHz		
			Channel 39750	Channel40620	Channel 41490		
	20MHz	TX / RX	2506 MHz	2593 MHz	2680 MHz		



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Table 4.3.1.1.5A-1: Test frequencies for CA_5B

Range	CC-Combo / NRB_agg [RB]			CC1 Note1					CC2 Note1		
		BW [RB]	NuL	f∪∟ [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	NuL	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]
Low	15+25	15	20416	825.6	2416	870.6	25	20455	829.5	2455	874.5
		25	20425	826.5	2425	871.5	15	20464	830.4	2464	875.4
	25+50	25	20428	826.8	2428	871.8	50	20500	834	2500	879
	50+25	50	20450	829	2450	874	25	20522	836.2	2522	881.2
	50+50	50	20450	829	2450	874	50	20549	838.9	2549	883.9
Mid	15+25	15	20501	834.1	2501	879.1	25	20540	838.0	2540	883.0
		25	20510	835.0	2510	0.088	15	20549	838.9	2549	883.9
	25+50	25	20478	831.8	2478	876.8	50	20550	839	2550	884
	50+25	50	20500	834	2500	879	25	20572	841.2	2572	886.2
	50+50	50	20476	831.6	2476	876.6	50	20575	841.5	2575	886.5
High	15+25	15	20586	842.6	2586	887.6	25	20625	846.5	2625	891.5
		25	20595	843.5	2595	888.5	15	20634	847.4	2634	892.4
	25+50	25	20528	836.8	2528	881.8	50	20600	844	2600	889
	50+25	50	20550	839	2550	884	25	20622	846.2	2622	891.2
	50+50	50	20501	834.1	2501	879.1	50	20600	844	2600	889
Note 1:	Carriers in ind	creasing f	requency	order.					•		•



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Table 4.3.1.1.7A-1: Test frequencies for CA_7C

Range	CC-Combo / N _{RB_agg} [RB]			CC1 Note1					CC2 Note1		
		BW		fuL		f _{DL}	BW		fuL		f _{DL}
		[RB]	NuL	[MHz]	N _{DL}	[MHz]	[RB]	NuL	[MHz]	N _{DL}	[MHz]
Low	50+100	50	20805	2505.5	2805	2625.5	100	20949	2519.9	2949	2639.9
		100	20850	2510	2850	2630	50	20994	2524.4	2994	2644.4
	75+50	75	20825	2507.5	2825	2627.5	50	20945	2519.5	2945	2639.5
	75+75	75	20825	2507.5	2825	2627.5	75	20975	2522.5	2975	2642.5
	75+100	75	20828	2507.8	2828	2627.8	100	20999	2524.9	2999	2644.9
		100	20850	2510	2850	2630	75	21021	2527.1	3021	2647.1
	100+100	100	20850	2510	2850	2630	100	21048	2529.8	3048	2649.8
Mid	50+100	50	21006	2525.6	3006	2645.6	100	21150	2540	3150	2660
		100	21051	2530.1	3051	2650.1	50	21195	2544.5	3195	2664.5
	75+50	75	21051	2530.1	3051	2650.1	50	21171	2542.1	3171	2662.1
	75+75	75	21025	2527.5	3025	2647.5	75	21175	2542.5	3175	2662.5
	75+100	75	21003	2525.3	3003	2645.3	100	21174	2542.4	3174	2662.4
		100	21026	2527.6	3026	2647.6	75	21197	2544.7	3197	2664.7
	100+100	100	21001	2525.1	3001	2645.1	100	21199	2544.9	3199	2664.9
High	50+100	50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680
		100	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5
	75+50	75	21277	2552.7	3277	2672.7	50	21397	2564.7	3397	2684.7
	75+75	75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5
	75+100	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680
		100	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2
	100+100	100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680
Note 1:	Carriers in inc	reasing f	requency	order.							



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Table 4.3.1.2.6A-1: Test frequencies for CA_38C

Range	CC- Combo / NRB_agg [RB]		CC1 Note1			CC2 Note1		
		BW [RB]	N _{UL/DL}	ful/bl [MHz]	BW [RB]	N _{UL/DL}	ful/DL [MHz]	
Low	75+75	75	37825	2577.5	75	37975	2592.5	
	100+100	100	37850	2580	100	38048	2599.8	
Mid	75+75	75	37925	2587.5	75	38075	2602.5	
	100+100	100	37901	2585.1	100	38099	2604.9	
High	75+75	75	38025	2597.5	75	38175	2612.5	
	100+100	100	37952	2590.2	100	38150	2610	
Note 1:	Carriers in i	increasing frequency order.						



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Table 4.3.1.2.9A-1: Test frequencies for CA_41C

Range	CC- Combo / N _{RB_agg} [RB]		CC1 Note1			CC2 Note1	
		BW		ful/DL	BW	N	ful/DL
Low	25+100	[RB] 25	N _{UL/DL}	[MHz]	[RB]	N _{UL/DL}	[MHz]
LOW	25+100	100	39683 39750	2499.3 2506	25	39800 39867	2511 2517.7
	50+75	50					
	50+75	75	39703	2501.3	75 50	39823	2513.3
	50:400		39725	2503.5		39845	2515.5
	50+100	50	39705	2501.5	100	39849	2515.9
	75.75	100	39750	2506	50	39894	2520.4
	75+75	75	39725	2503.5	75	39875	2518.5
	75+100	75	39728	2503.8	100	39899	2520.9
		100	39750	2506	75	39921	2523.1
	100+100	100	39750	2506	100	39948	2525.8
Mid	25+100	25	40528	2583.8	100	40645	2595.5
		100	40595	2590.5	25	40712	2602.2
	50+75	50	40549	2585.9	75	40669	2597.9
		75	40571	2588.1	50	40691	2600.1
	50+100	50	40526	2583.6	100	40670	2598.0
		100	40571	2588.1	50	40715	2602.5
	75+75	75	40545	2585.5	75	40695	2600.5
	75+100	75	40523	2583.3	100	40694	2600.4
		100	40546	2585.6	75	40717	2602.7
	100+100	100	40521	2583.1	100	40719	2602.9
High	25+100	25	41373	2668.3	100	41490	2680
_		100	41440	2675	25	41557	2686.7
	50+75	50	41395	2670.5	75	41515	2682.5
		75	41417	2672.7	50	41537	2684.7
	50+100	50	41346	2665.6	100	41490	2680
		100	41391	2670.1	50	41535	2684.5
	75+75	75	41365	2667.5	75	41515	2682.5
	75+100	75	41319	2662.9	100	41490	2680
		100	41341	2665.1	75	41512	2682.2
	100+100	100	41292	2660.2	100	41490	2680
Note 1:	Carriers in ir	ncreasing fr	equency order.				

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5 **Description of Tests**

5.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.2.1

The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

Remark: Reference test setup 1



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5.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8.4

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

EIRP(dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB



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5.3 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2 & 4.3

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

Remark: Reference test setup 1

Test Settings

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- VBW ≥ 3 x RBW
- 4 Detector = Peak
- 5. Trace mode = max hold
- Sweep = auto couple
- The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within
 - 1 5% of the 99% occupied bandwidth observed in Step 7



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5.4 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to rms.

Remark: Reference test setup 1

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW ≥ 1% of the emission bandwidth
- VBW > 3 x RBW
- Detector = RMS
- Number of sweep points ≥ 2 x Span/RBW
- Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize





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5.5 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

Remark: Reference test setup 1

Test Settings

- 1. Start frequency was set to 9kHz and stop frequency was set to at least 10* the fundamental frequency(Separated into at least two plots per channel)
- 2. Detector = RMS
- 3. Trace mode = trace average for continuous emissinos, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings



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5.6 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.2

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode.

Remark: Reference test setup 1

Test Settings

- The signal analyzer's CCDF measurement profile is enabled
- Frequency = carrier center frequency
- Measurement BW > Emission bandwidth of signal
- The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power



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5.7 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

E (dBμV/m) = Measured amplitude level (dBμV) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB μ V/m) + 20 log D - 104.8; where D is the measurement distance in meters

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

E (dBμV/m) = Measured amplitude level (dBμV) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB μ V/m) + 20 log D - 104.8; where D is the measurement distance in meters

- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Remark: Reference test setup 2

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit - Level

2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) All modes have been tested, but only the worst case data displayed in this report.



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5.8 Frequency Stability / Temperature Variation

Measurement Procedure:

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01; Section 9

- . The frequency stability of the transmitter is measured by:
- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Time Period and Procedure:

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Remark: Reference test setup 3



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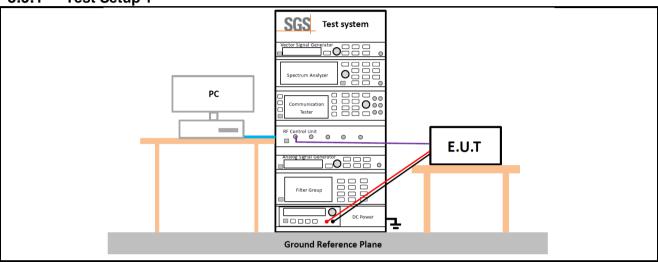
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5.9 Test Setups

5.9.1 Test Setup 1



5.9.2 Test Setup 2

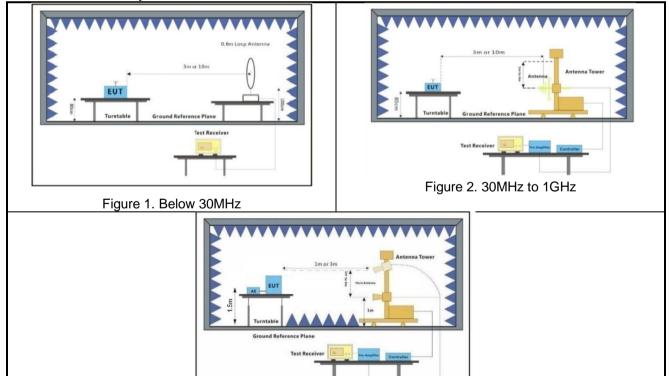


Figure 3. above 1GHz



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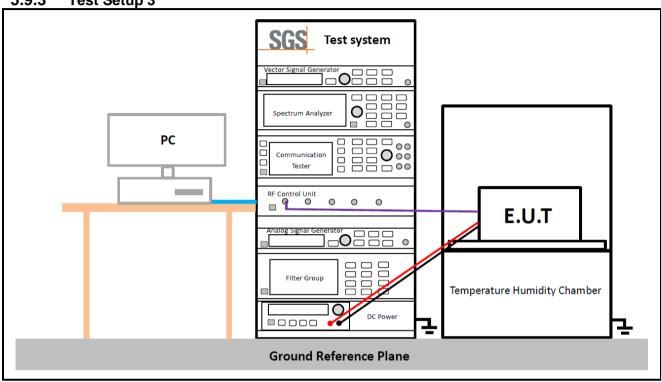


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5.9.3 Test Setup 3





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5.10Test Conditions

	Transmit Output Power Data - Average Power, Total
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	LTE/TM1;LTE/TM2; LTE/TM3; LTE/TM4
	Peak-to-Average Ratio
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	LTE/TM1;LTE/TM2; LTE/TM3; LTE/TM4
	Bandwidth - Occupied Bandwidth
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	LTE/TM1;LTE/TM2
	Bandwidth - Emission Bandwidth
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
RF Channels (TX) Test Mode	L, M, H (L= low channel, M= middle channel, H= high channel) LTE/TM1;LTE/TM2
` ,	
` ,	LTE/TM1;LTE/TM2
Test Mode	LTE/TM1;LTE/TM2 Band Edges Compliance
Test Mode Test Case	Band Edges Compliance Test Conditions



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Test Mode	LTE/TM1
	Spurious Emission at Antenna Terminals
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	LTE/TM1
	Field Strength of Spurious Radiation
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 2
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	LTE/TM1 Remark: All bandwidth and modulation of LTE have been pre tested, and only the worst results are reflected in the report.
	Frequency Stability
Test Case	Test Conditions
Test Environment	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage
rest Environment	(2) VL, VN and VH of Rated Voltage at Ambient Climate.
Test Setup	Test Setup 3
RF Channels (TX)	M (M= middle channel)
Test Mode	LTE/TM1
1 GSU WIOUE	The report only show the bandwidth with the worst case.



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6 Appendixes

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Appendix B.1	LTE Band 5
Appendix B.2	LTE Band 7
Appendix B.3	LTE Band 38
Appendix B.4	LTE Band 41
Appendix B.5	LTE CA_5B
Appendix B.6	LTE CA_7C
Appendix B.7	LTE CA_38C
Appendix B.8	LTE CA_41C

---End of Report---



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