



FCC Radio Test Report FCC ID: 2AYGCANY-NX1

This report concerns: Original Grant

Project No. 2203G020 Equipment **Smart Phone Brand Name** : HONOR Test Model ANY-NX1

Series Model N/A

Applicant Honor Device Co., Ltd.

Address : Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West

Road, Xiangmihu Street, Futian District, Shenzhen, P.R.China

Manufacturer Honor Device Co., Ltd.

Address Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West

Road, Xiangmihu Street, Futian District, Shenzhen, P.R.China

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> 47 CFR FCC Part 2 ANSI/TIA/EIA-603-E-2016

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Prepared by: Edward Li

Edward Li

Approved by: Treey Chen



Add: No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792

People's Republic of China.

Tel: +86-769-8318-3000 Web: www.newbtl.com



Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

determining the Pass/Fail results.

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and is not use in



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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-7-2203G020	R00	Original Report.	Mar. 25, 2022	Invalid
BTL-FCCP-7-2203G020	R01	Modified the comments of TCB.	Apr. 08, 2022	Valid



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 27 Subpart M & Part 2						
Standard(s) Section	Test Item	Judgment	Remark			
2.1046 27.50(h)(2)	Equivalent Isotropic Radiated Power	PASS				
2.1049	Occupied Bandwidth	PASS				
2.1051 27.53(m)(4)&(m)(6)	Conducted Spurious Emissions	PASS				
2.1047	Modulation Characteristics	PASS				
2.1051 27.53(m)(4)&(m)(6)	Band Edge Measurements	PASS				
-	Peak To Average Ratio	PASS	Record Only			
2.1055 27.54	Frequency Stability	PASS				

Note:

(1) "N/A" denotes test is not applicable in this test report.



1.1 TEST FACILITY

The test facilities used to collect the test data of conduted in this report is at the location of Room 108, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

Parameter	Uncertainty
Transmit Output Power Output Data	U = 0.40 dB
RF Power Density, Conducted	U = 0.66 dB
Bandwidth	200kHz: U=9.06kHz 1.4MHz: U=9.48kHz 3MHz: U=10.86kHz 5MHz: U=13.84kHz 10MHz: U=22.32kHz 15MHz: U=31.9kHz 20MHz: U=41.78kHz
Band Edge Compliance	U = 0.9 dB
Spurious Emissions, Conducted	20MHz~3.6GHz: U=0.88dB 3.6GHz~8.4GHz: U=1.08dB 8.4GHz~13.6GHz: U=1.24dB 13.6GHz~22GHz: U=1.34dB 22GHz~26.5GHz: U=1.36dB
Frequency Sta□ility	800MHz: U=24.08Hz 900MHz: U=24.54Hz 1900MHz: U=34.7Hz 2100MHz: U=36.96Hz 2300MHz: U=39.24Hz 2500MHz: U=41.58Hz 2600MHz: U=42.74Hz

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Output Power & EIRP	19.5 ~ 25°C	40 ~ 55%	DC 3.87V	Rick Liao
Occupied Bandwidth	19.5 ~ 25°C	40 ~ 55%	DC 3.87V	Rick Liao
Conducted Spurious Emissions	19.5 ~ 25°C	40 ~ 55%	DC 3.87V	Rick Liao
Band Edge	19.5 ~ 25°C	40 ~ 55%	DC 3.87V	Rick Liao
Peak to Average Ratio	19.5 ~ 25°C	40 ~ 55%	DC 3.87V	Rick Liao
Frequency Stability	Normal & Extreme	40 ~ 55%	Normal & Extreme	Rick Liao



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone				
Brand Name	HONOR				
Test Model	ANY-NX1				
Series Model	N/A				
Model Difference(s)	N/A				
Hardware Version	HN3ANYM				
Software Version	4.2.0.42(C900E42R1P3)				
Power Source	1# DC voltage supplied fro 2# Supplied from battery.	1# DC voltage supplied from AC adapter. 2# Supplied from battery.			
Power Rating	11V === 6A Max	1# I/P: 100-240V~ 50/60Hz 1.8A O/P: 5V === 2A or 10V === 4A or 11V === 6A Max 2# DC 3.87V, Rated Capacity:4700mAh			
IMEI No.	865253060027868, 86525	3060027462, 86525306002748	88, 865253060027173		
Modulation Type	LTE	UL: QPSK,16QAM, 64QAM			
	LTE Band 7	25.08	dBm		
	LTE Band 38	24.44	dBm		
Max. EIRP	LTE Band 41	26.04	dBm		
	LTE Band 7C	24.38	dBm		
	LTE Band 41C	25.19	dBm		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

	LTE Band 7							
Test Frequency ID	Bandwidth (MHz)	NuL	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)			
Low Range	5	20775	2502.5	2775	2622.5			
	10	20800	2505	2800	2625			
	15	20825	2507.5	2825	2627.5			
	20	20850	2510	2850	2630			
Mid Range	5/10/15/20	21100	2535	3100	2655			
	5	21425	2567.5	3425	2687.5			
High Range	10	21400	2565	3400	2685			
	15	21375	2562.5	3375	2682.5			
	20	21350	2560	3350	2680			



		LTE Band	1 38
Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency (UL and DL) (MHz)
	5	37775	2572.5
Low Range	10	37800	2575
	15	37825	2577.5
	20	37850	2580
Mid Range	5/10/15/20	38000	2595
	5	38225	2617.5
High Range	10	38200	2615
	15	38175	2612.5
	20	38150	2610

	LTE Band 41							
Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency (UL and DL) (MHz)					
	5	39675	2498.5					
Low Range	10	39700	2501					
	15	39725	2503.5					
	20	39750	2506					
Mid Range	5/10/15/20	40620	2593					
	5	41565	2687.5					
High Dongs	10	41540	2685					
High Range	15	41515	2682.5					
	20	41490	2680					



LTE CA_7C

NRB_ag	CC-Combo / NRB_agg [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	NuL	ful [MHz]	NDL	fol [MHz]	BW [RB]	NuL	fuL [MHz]	NDL	fol [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
Ì	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	creasing f	requency	order.				•			

LTE CA_41C

Range	CC- Combo / Nrs_agg [RB]		CC1 Note1			CC2 Note1	
		BW		ful/bl	BW		fuL/DL
	05.400	[RB]	NUL/DL	[MHz]	[RB]	NULIDL	[MHz]
Low	25+100	25	39683	2499.3	100	39800	2511
	50.75	100	39750	2506	25	39867	2517.7
	50+75	50	39703	2501.3	75	39823	2513.3
		75	39725	2503.5	50	39845	2515.5
	50+100	50	39705	2501.5	100	39849	2515.9
		100	39750	2506	50	39894	2520.4
	75+75	75	39725	2503.5	75	39875	2518.5
75+1	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



3. Table for Filed Antenna:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
			2.3	LTE BAND 7	
N/A	N/A	Integral	N/A	1.1	LTE BAND 38
				2.3	LTE BAND 41

Note: The antenna gain is provided by the manufacturer.

4. The EUT contains following accessory devices:

Object / Part No.	Manufacturer / Trademark	Type / Model Name	Technical Data
		HW-110600E00	
		HW-110600B00	I/P: 100-240V
Adapter	HONOR Device Co., Ltd.	HW-110600U00	~50/60Hz, 1.8A O/P: 5V === 2A or
		HN-110600E00	10V === 4A or 11V === 6A Max
		HN-110600B00	
		HN-110600U00	
Battery		HB466596EFW	Rated capacity: 4700 mAh Nominal Voltage: +3.87V Charging Voltage: +4.45V



2.2 DESCRIPTION OF TEST MODES

Test Modes in the report are described below:

Test Mode	Test Modes Description		
LTE/TM1	LTE system, QPSK modulation		
LTE/TM2	LTE system, 16QAM modulation		

Note: The test mode(s) are selected according to relevant radio technology specifications.

Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

LTE BAND 7 MODE						
Test Item Available Channel		Tested Channel	Channel Bandwidth	Modulation	Mode	
	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1RB/12RB/25RB	
Output Power	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1RB/25RB/50RB	
& EIRP	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	1RB/38RB/75RB	
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1RB/50RB/100RB	
	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1RB/12RB/25RB	
Peak To	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1RB/25RB/50RB	
Average Ratio	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	1RB/38RB/75RB	
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1RB/50RB/100RB	
	20775 to 21425	21100	5MHz	QPSK, 16QAM	25RB	
Modulation	20800 to 21400	21100	10MHz	QPSK, 16QAM	50RB	
Characteristics	20825 to 21375	21100	15MHz	QPSK, 16QAM	75RB	
	20850 to 21350	21100	20MHz	QPSK, 16QAM	100RB	
	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	25RB	
Occupied	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	50RB	
Bandwidth	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	75RB	
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	100RB	
	20775 to 21425	20775, 21425	5MHz	QPSK, 16QAM	1RB/12RB/25RB	
Band Edge	20800 to 21400	20800, 21400	10MHz	QPSK, 16QAM	1RB/25RB/50RB	
band Edge	20825 to 21375	20825, 21375	15MHz	QPSK, 16QAM	1RB/38RB/75RB	
	20850 to 21350	20850, 21350	20MHz	QPSK, 16QAM	1RB/50RB/100RB	
Conducted	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1RB//25RB	
Spurious Emissions	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1RB/100RB	
Frequency Stability	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	25RB	
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	50RB	
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	75RB	
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	100RB	



LTE BAND 38 MODE							
Test Item Available Channel		Tested Channel	Channel Modulation		Mode		
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1RB/12RB/25RB		
Output Power &	37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM	1RB/25RB/50RB		
EIRP	37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM	1RB/38RB/75RB		
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM	1RB/50RB/100RB		
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1RB/12RB/25RB		
Peak To Average	37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM	1RB/25RB/50RB		
Ratio	37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM	1RB/38RB/75RB		
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM	1RB/50RB/100RB		
	37775 to 38225	38000	5MHz	QPSK, 16QAM	25RB		
Modulation	37800 to 38200	38000	10MHz	QPSK, 16QAM	50RB		
Characteristics	37825 to 38175	38000	15MHz	QPSK, 16QAM	75RB		
	37850 to 38150	38000	20MHz	QPSK, 16QAM	100RB		
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	25RB		
Occupied	37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM	50RB		
Bandwidth	37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM	75RB		
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM	100RB		
	37775 to 38225	37775, 38225	5MHz	QPSK, 16QAM	1RB/12RB/25RB		
Pand Edga	37800 to 38200	37800, 38200	10MHz	QPSK, 16QAM	1RB/25RB/50RB		
Band Edge	37825 to 38175	37825, 38175	15MHz	QPSK, 16QAM	1RB/38RB/75RB		
	37850 to 38150	37850, 38150	20MHz	QPSK, 16QAM	1RB/50RB/100RB		
Conducted	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1RB//25RB		
Spurious Emissions	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM	1RB/100RB		
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	25RB		
Frequency	37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM	50RB		
Stability	37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM	75RB		
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM	100RB		



LTE BAND 41 MODE						
Test Item Available Channel		Tested Channel	Channel Modulation		Mode	
	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1RB/12RB/25RB	
Output Power &	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	1RB/25RB/50RB	
EIRP	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	1RB/38RB/75RB	
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1RB/50RB/100RB	
	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1RB/12RB/25RB	
Peak To	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	1RB/25RB/50RB	
Average Ratio	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	1RB/38RB/75RB	
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1RB/50RB/100RB	
	39675 to 41565	40620	5MHz	QPSK, 16QAM	25RB	
Modulation	39700 to 41540	40620	10MHz	QPSK, 16QAM	50RB	
Characteristics	39725 to 41515	40620	15MHz	QPSK, 16QAM	75RB	
	39750 to 41490	40620	20MHz	QPSK, 16QAM	100RB	
	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	25RB	
Occupied	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	50RB	
Bandwidth	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	75RB	
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	100RB	
	39675 to 41565	39675, 41565	5MHz	QPSK, 16QAM	1RB/12RB/25RB	
Band Edge	39700 to 41540	39700, 41540	10MHz	QPSK, 16QAM	1RB/25RB/50RB	
Band Edge	39725 to 41515	39725, 41515	15MHz	QPSK, 16QAM	1RB/38RB/75RB	
	39750 to 41490	39750, 41490	20MHz	QPSK, 16QAM	1RB/50RB/100RB	
Conducted Spurious Emissions	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1RB//25RB	
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1RB/100RB	
	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	25RB	
Frequency	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	50RB	
Stability	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	75RB	
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	100RB	

Note: The modulation type of 64QAM have been evaluated and the report records only the worst case(QPSK, 16QAM).





3. TEST RESULT

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMIT

Mobile / Portable station are limited to 7 watts e.r.p.

3.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.

EIRP / ERP:

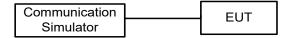
EIRP = Output Power + Antenan gain ERP = EIPR - 2.15dBi

Output Power:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.1.3 TEST SETUP LAYOUT

Output Power Measurement



3.1.4 TEST DEVIATION

No deviation

3.1.5 TEST RESULTS



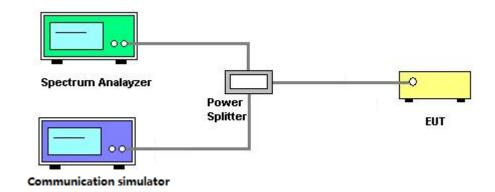
3.2 OCCUPIED BANDWIDTH MEASUREMENT

3.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 4.

- 1. The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- RBW=(1% ~ 5%)*EBW
 VBW≥3* RBW
- 4. Set spectrum analyzer with Peak detector.

3.2.2 TEST SETUP LAYOUT



3.2.3 TEST DEVIATION

No deviation

3.2.4 TEST RESULTS



3.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

3.3.1 LIMIT

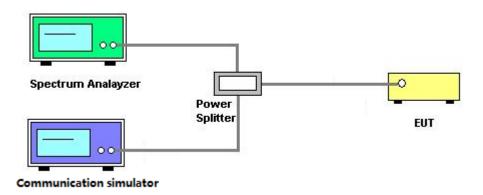
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

3.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured. Set RBW>=1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- 3. Set spectrum analyzer with Peak detector.
- 4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.3.3 TEST SETUP LAYOUT



3.3.4 TEST DEVIATION

No deviation

3.3.5 TEST RESULTS



3.4 BAND EDGE MEASUREMENT

3.4.1 LIMIT

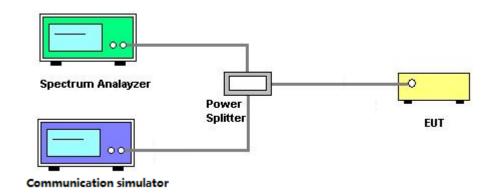
A Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

- 1. All measurements were done at low and high operational frequency range.
- 2. Record the max trace plot into the test report.

3.4.3 TEST SETUP LAYOUT



3.4.4 TEST DEVIATION

No deviation

3.4.5 TEST RESULTS



3.5 PEAK TO AVERAGE RATIO MEASUREMENT

3.5.1 LIMIT

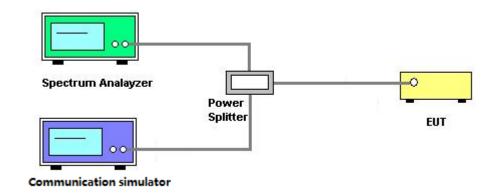
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7.

- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1%.

3.5.3 TEST SETUP LAYOUT



3.5.4 TEST DEVIATION

No deviation

3.5.5 TEST RESULTS



3.6 FREQUENCY STABILITY MEASUREMENT

3.6.1 LIMIT

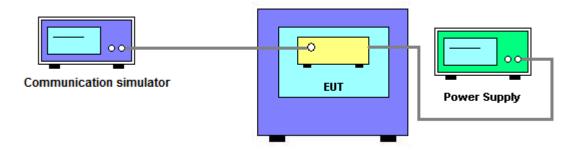
±1.5 ppm is for base and fixed station. ±2.5 ppm is for mobile station.

3.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 9.

- 1. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- 2. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- 3. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5°C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
- 4. The frequency error was recorded frequency error from the communication simulator.

3.6.3 TEST SETUP LAYOUT



3.6.4 TEST DEVIATION

No deviation

3.6.5 TEST RESULTS





4. LIST OF MEASUREMENT EQUIPMENTS

	Conducted Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Temperature Chamber	WEISS	WKL64/40	56246014990010	May 24, 2022			
2	Universal Radio Communication Tester	R&S	CMW500	167224	Sep. 27, 2022			
3	Universal Radio Communication Tester	R&S	CMW500	169872	May 13, 2022			
4	Universal Radio Communication Tester	R&S	CMW500	169873	May 13, 2022			
5	Signal Analyzer	R&S	FSW26	102253	May 13, 2022			
6	Signal Analyzer	R&S	FSW43	101998	May 13, 2022			
7	Vector Signal Generator	R&S	SMW200A	109896	Sep. 27, 2022			
8	Vector Signal Generator	R&S	SMW200A	109897	Sep. 27, 2022			

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of equipment list is one year.

End of Test Report