

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2101114

FCC REPORT

Applicant: Baicells Technologies Co., Ltd.

Address of Applicant: 9-10F, 1stBldg., No.81BeigingRoad, Haidian District, Beijing,

China

Equipment Under Test (EUT)

Product Name: LTE Base Station

Model No.: sBS71040

Trade mark: Baicells

FCC ID: 2AG32SBS71040

Applicable standards: FCC CFR Title 47 Part 2

FCC CFR Title 47 Part 27 Subpart M

Date of sample receipt: 17 Jun., 2021

Date of Test: 05 Jul., to 13 Sep., 2021

Date of report issued: 13 Sep., 2021

Test Result: PASS*

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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





2. Version

Version No.	Date	Description
00	13 Sep., 2021	Original

Tested by:	Mike.ou	Date:	13 Sep., 2021	
-	Test Engineer			

Reviewed by:

| Date: 13 Sep., 2021 | Project Engineer | Date: | 13 Sep., 2021 | Date: | Date:

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4. Test Summary

ert 1.1307 (Please refer to FCC Exposure Evaluation Report) 27.50 (h)(1) Pass eport only ert 2.1049 rt 27.53(m) (Please refer to FCC Exposure Evaluation Report) Pass Pass
eport only Report only art 2.1049 Pass
art 2.1049
Pass
art 2.1053 rt 27.53(m)
rt 27.53(m) Pass
art 27.54 Pass .1055(a)(1)(b)
art 27.54 Pass 2.1055(d)(2)
2

1. Pass: The EUT complies with the essential requirements in the standard.

2. Offset Ext Gain = ATT loss + Cable loss + Duty cycle correction

ANSI/TIA-603-E-2016

Test Method: ANSI C63.26-2015

KDB 662911 D01 Multiple Transmitter Output v02r01

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5. General Information

5.1 Client Information

Applicant:	Baicells Technologies Co., Ltd.	
Address:	9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China	
Manufacturer:	Baicells Technologies Co., Ltd.	
Address:	9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China	

5.2 General Description of E.U.T.

oiz Conorai Docompilon				
Product Name:	LTE Base Station			
Model No.:	sBS71040			
Operation Frequency range:	LTE Band 41: TX: 2496MHz-2690MHz RX: 2496 MHz-2690 MHz			
Mandralation to man	Uplink: QPSK, 16QAM, 64QAM, 256QAM			
Modulation type:	Downlink: QPSK, 16QAM, 64QAM, 256QAM			
Antenna type:	External Antenna			
Antenna gain:	LTE Band 41: 18.0 dBi(declare by Applicant)			
AC adapter:	Model: HEP-480-54			
	Input: AC100-240V 50/60Hz 5.5~2.2A			
	Output: DC 54.0V=== 8.9A			
Test Sample Condition:	The applicant provided engineering samples for staying in continuously transmitting for testing.			

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Operation Frequency List:

LTE Band 41 (10MHz)		LTE Band 41 (20MHz)		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
39700	2501.00	39750	2506.00	
39701	2501.10	39751	2506.10	
40619	2592.90	40619	2592.90	
40620	2593.00	40620	2593.00	
40621	2593.10	40621	2593.10	
			••••	
41539	2684.90	41489	2680.90	
41540	2685.00	41490	2680.00	

Regards to the operating frequency range, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channels as below:

LTE Band 41 (10MHz)			LTE Band 41 (20MHz)		
Channe	I	Frequency (MHz)	Channel Frequence		Frequency (MHz)
Lowest channel	39700	2501.0	Lowest channel 39750		2506.0
Middle channel	40620	2593.0	Middle channel 40620		2593.0
Highest channel	41540	2685.0	Highest channel 41490		2680.0

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5.3 Test environment and mode

Operating Environment				
Temperature:	Normal: 15° C ~ 35° C, Extreme: -30° C ~ $+50^{\circ}$ C			
Humidity:	20 % ~ 75 % RH			
Atmospheric Pressure:	1008 mbar			
Voltage:	Nominal: 120Vac, Extreme: Low 102Vac, High 138Vac			
Test mode:				
LTE QPSK mode	Keep the EUT communication with simulated station in QPSK mode			
LTE 16-QAM mode	Keep the EUT communication with simulated station in 16-QAM mode			
LTE 64-QAM mode	Keep the EUT communication with simulated station in 64-QAM mode			
LTE 256-QAM mode	Keep the EUT communication with simulated station in 256-QAM mode			
Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High				
for each type band with ra	for each type band with rated data rate were chosen for full testing. The field strength of spurious			
radiation emission was m	radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2			

5.4 Description of Support Units

Test Equipment Manufacturer		Manufacturer	Model No.	Serial No.
LENG	LENOVO Laptop		SL510	DoC

mode) for these modes. Just the worst case position (H mode) shown in report.

5.5 Measurement Uncertainty

, re the distribute of the state of the stat				
Parameters	Expanded Uncertainty (Confidence of 95%)			
Radiated Emission (9kHz ~ 30MHz) for 3m SAC	3.13 dB			
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB			
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB			
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB			

Note: The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.26-2015. All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Additions to, deviations, or exclusions from the method

No

5.8 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 727551.

● ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

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5.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.
Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community,

Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.10 Test Instruments list

6 Radiated Emission	:				
Test Equipment	Manufacturer	Model No.	Management Number	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	WXJ002	03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	WXJ002-2	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Pre-amplifier	HP	8447D	WXG001-2	03-07-2021	03-06-2022
Pre-amplifier	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	WXJ004	03-03-2021	03-02-2022
Signal Generator	Agilent	N5173B	WXJ006-7	03-25-2021	03-24-2022
RF Switch Unit	Tonscend	JS0806-F	WXJ089	N	I/A
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted method:					
Test Equipment	Manufacturer	Model No.	Management Number	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9020B	WXJ081-1	07-02-2021	07-01-2022
RF Control Unit	Tonscend	JS0806-1	WXG010-2	N/A	N/A
RF Control Unit	Tonscend	JS0806-1	WXG010-3	N/A	N/A
Band Reject Filter Group	Tonscend	JS0806-F	WXG010-4	N/A	N/A
Test Software	Tonscend	TS+	Ve	ersion: 2.6.9.0526	3

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6. Test results

6.1 Conducted Output Power

Test Requirement:	Part 27.50 (h)(1)					
Limit:	Main, booster and base stations. (i) The maximum EIRP of a main, booster or base station shall not exceed 33 dBW +10log(X/Y) dBW, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition, except as provided in paragraph(h)(1)(ii) of this section.					
Test Setup:	Aattenuator Spectrum Analyzer EUT					
Test Procedure:	 For Maximum EIRP Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching. Set span to 2 x to 3 x the OBW. Set RBW = 1% to 5% of the OBW. Set VBW ≥ 3 x RBW. Set number of measurement points in sweep ≥ 2 x span / RBW. Sweep time: Set = auto-couple, or Set ≥ [10 x (number of points in sweep) x (transmission symbol period)] for single sweep (automation-compatible) measurement. Detector = power averaging (rms). Set sweep trigger to "free run." Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time. Compute power by integrating the spectrum across the OBW(10MHz) of the signal using the instrument's band or channel power measurement function with band/channel limits set equal to the OBW(10MHz) band edges. Add 10 log (1/duty cycle) to the measured power level to compute the average power during continuous transmission. EIRP = PMeas + GT. P_{Meas} measured transmitter output power. G_T gain of the transmitting antenna.					
Test Instruments:	Refer to section 5.10 for details					
i cot motrumento.	Note: to decition of notice in					
Test mode:	Refer to section 5.3 for details					

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Measurement Data:

Band width	Modulation	Channel	ANT 0 Output Power (dBm)	ANT 1 Output Power (dBm)	ANT 2 Output Power (dBm)	ANT 3 Output Power (dBm)	Total Power (dBm)	Gain (dBi)	Eirp	Limit (dBm)	Verdict
10MHz	256QAM	39700	36.74	36.65	36.85	36.90	42.81	18.0	60.81	65.22	PASS
10MHz	256QAM	40620	37.33	37.07	36.84	36.94	43.07	18.0	61.07	65.22	PASS
10MHz	256QAM	41540	36.97	36.89	37.02	37.28	43.06	18.0	61.06	65.22	PASS
10MHz	QPSK	39700	36.78	36.97	36.39	36.40	42.66	18.0	60.66	65.22	PASS
10MHz	QPSK	40620	37.12	36.94	36.71	36.60	42.87	18.0	60.87	65.22	PASS
10MHz	QPSK	41540	36.39	36.69	36.48	36.51	42.54	18.0	60.54	65.22	PASS
20MHz	256QAM	39750	36.60	37.25	37.09	37.07	43.03	18.0	61.03	68.23	PASS
20MHz	256QAM	40620	37.08	37.21	36.75	36.85	43.00	18.0	61.00	68.23	PASS
20MHz	256QAM	41490	37.37	36.64	37.14	37.15	43.10	18.0	61.10	68.23	PASS
20MHz	QPSK	39750	36.71	36.99	36.28	36.20	42.58	18.0	60.58	68.23	PASS
20MHz	QPSK	40620	36.97	36.98	36.91	36.75	42.92	18.0	60.92	68.23	PASS
20MHz	QPSK	41490	36.80	37.01	36.30	36.88	42.78	18.0	60.78	68.23	PASS

Remark:

- 1. ANT 0, ANT 1, ANT 2, ANT 3 is 4*4MIMO
- 2. All transmit signals are completely uncorrelated with each other, Directional gain = GANT =18dBi

Band width	Modulation	Channel	ANT 4 Output Power (dBm)	ANT 5 Output Power (dBm)	ANT 6 Output Power (dBm)	ANT 7 Output Power (dBm)	Total Power (dBm)	Gain (dBi)	Eirp	Limit (dBm)	Verdict
10MHz	256QAM	39700	36.92	36.85	37.04	36.76	42.91	18.0	60.91	65.22	PASS
10MHz	256QAM	40620	37.03	36.98	37.23	37.06	43.10	18.0	61.10	65.22	PASS
10MHz	256QAM	41540	37.09	37.34	36.90	36.95	43.09	18.0	61.09	65.22	PASS
10MHz	QPSK	39700	36.64	36.71	36.77	36.61	42.70	18.0	60.70	65.22	PASS
10MHz	QPSK	40620	36.46	35.66	36.56	37.03	42.48	18.0	60.48	65.22	PASS
10MHz	QPSK	41540	36.58	37.12	36.71	36.65	42.79	18.0	60.79	65.22	PASS
20MHz	256QAM	39750	37.05	37.15	37.09	37.35	43.18	18.0	61.18	68.23	PASS
20MHz	256QAM	40620	36.93	37.56	36.93	37.55	43.27	18.0	61.27	68.23	PASS
20MHz	256QAM	41490	37.10	37.01	37.16	37.17	43.13	18.0	61.13	68.23	PASS
20MHz	QPSK	39750	36.77	36.41	36.56	37.18	42.76	18.0	60.76	68.23	PASS
20MHz	QPSK	40620	36.81	37.08	36.93	37.00	42.98	18.0	60.98	68.23	PASS
20MHz	QPSK	41490	36.85	36.97	36.76	37.07	42.93	18.0	60.93	68.23	PASS

Remark

- 1. ANT 4, ANT 5, ANT 6, ANT 7 is 4*4MIMO
- 2. All transmit signals are completely uncorrelated with each other, Directional gain = GANT =18dBi

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6.2 Peak-to-Average Ratio

Test Requirement:	Report only					
Limit:	N/A					
Test Setup:	Aattenuator					
	Spectrum Analyzer EUT					
Test Procedure:	 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. Set the CCDF option in spectrum analyzer, RBW ≥ OBW, 					
	 Set the CCDF option in spectrum analyzer, RBW ≥ OBW, Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level. 					
	4 Repeat step 1~3 at other frequency and modulations.					
Test Instruments:	Refer to section 5.10 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data:

Refer to Appendix A - Antenna0~3, Appendix B - Antenna4~7

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6.3 Occupy Bandwidth

Test Requirement:	Part 27.53(m)
Test Setup:	Aattenuator Spectrum Analyzer EUT
Test Procedure:	The EUT's output RF connector was connected with a short cable to
rest roccaire.	the spectrum analyzer
	2. RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW.
	-26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Refer to Appendix A - Antenna0~3, Appendix B - Antenna4~7

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6.4 Out of band emission at antenna terminals

Test Requirement:	Part 27.53(m)(2)
Limit:	LTE Band 41: For all fixed digital user stations, the attenuation factor shall be not less than 43 + 10 log (P) dB at the channel edge.
Test Setup:	Aattenuator Spectrum Analyzer EUT
Test Procedure:	 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. For the out of band: for Band 41 set the RBW=1 MHz, VBW=3 MHz Start=30MHz, Stop= 10th harmonic. Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	Pre-scan all modulation type (QPSK, 16-QAM, 64-QAM, 256-QAM), and found the QPKS was the worst case. so only the worst case test data.)

Measurement Data:

Refer to Appendix A - Antenna0~3, Appendix B - Antenna4~7

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6.5 Field strength of spurious radiation measurement

Test Requirement:	Part 27.53(m)(2)					
Limit:	LTE Band 41:					
	For all fixed digital user stations, the attenuation factor shall be not less than 43 + 10 log (P) dB at the channel edge.					
Test setup:	Below 1GHz					
	Camera Antenna Tower Ground Reference Plane Generator Monitor Power Amplifier					
	Above 1GHz					
	Ground Reference Plane Test Receiver Test Receiver Test Receiver Test Receiver					
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 					
	 During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) - Cable Loss (dB) 					
Test Instruments:	Refer to section 5.10 for details					
Test mode:	Refer to section 5.3 for details.					
Test results:	Passed					
Remark:	Pre-scan all modulation type (QPSK, 16-QAM, 64-QAM, 256-QAM), and found the QPKS was the worst case. so only the worst case test data.)					

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Measurement Data:

LTE Band 41 part:

	Band 41 (10MHz)									
Lowest channel										
Frequency (MHz)	Spurous Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization				
5002.00	-48.48	4.56	-43.92	-13.00	30.92	Vertical				
7503.00	-49.87	13.14	-36.73	-13.00	23.73	Vertical				
10004.00	-49.96	16.89	-33.07	-13.00	20.07	Vertical				
5002.00	-48.39	4.56	-43.83	-13.00	30.83	Horizontal				
7503.00	-48.81	13.14	-35.67	-13.00	22.67	Horizontal				
10004.00	-50.27	16.89	-33.38	-13.00	20.38	Horizontal				
		Middl	e channel							
Frequency (MHz)	Spurous Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization				
5186.00	-48.84	4.76	-44.08	-13.00	31.08	Vertical				
7779.00	-50.04	13.48	-36.56	-13.00	23.56	Vertical				
10372.00	-49.95	18.00	-31.95	-13.00	18.95	Vertical				
5186.00	-48.48	4.76	-43.72	-13.00	30.72	Horizontal				
7779.00	-49.10	13.48	-35.62	-13.00	22.62	Horizontal				
10372.00	-49.96	18.00	-31.96	-13.00	18.96	Horizontal				
		Highe	st channel							
Frequency (MHz)	Spurous Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization				
5370.00	-48.06	5.50	-42.56	-13.00	29.56	Vertical				
8055.00	-49.69	13.31	-36.38	-13.00	23.38	Vertical				
10740.00	-50.19	19.50	-30.69	-13.00	17.69	Vertical				
5370.00	-48.10	5.50	-42.60	-13.00	29.60	Horizontal				
8055.00	-49.07	13.31	-35.76	-13.00	22.76	Horizontal				
10740.00	-50.29	19.50	-30.79	-13.00	17.79	Horizontal				
Damadu										

Remark:

The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.

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			1 (20MHz)							
Lowest channel										
Frequency (MHz)	Spurous Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization				
5012.00	-48.26	4.56	-43.70	-13.00	30.70	Vertical				
7518.00	-50.01	13.29	-36.72	-13.00	23.72	Vertical				
10024.00	-49.50	16.93	-32.57	-13.00	19.57	Vertical				
5012.00	-48.21	4.56	-43.65	-13.00	30.65	Horizontal				
7518.00	-48.53	13.29	-35.24	-13.00	22.24	Horizontal				
10024.00	-50.49	16.93	-33.56	-13.00	20.56	Horizontal				
		Middle	e channel							
Frequency (MHz)	Spurous Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization				
5186.00	-48.60	4.76	-43.84	-13.00	30.84	Vertical				
7779.00	-49.86	13.48	-36.38	-13.00	23.38	Vertical				
10372.00	-49.89	18.00	-31.89	-13.00	18.89	Vertical				
5186.00	-48.07	4.76	-43.31	-13.00	30.31	Horizontal				
7779.00	-48.72	13.48	-35.24	-13.00	22.24	Horizontal				
10372.00	-50.15	18.00	-32.15	-13.00	19.15	Horizontal				
		Highes	st channel							
Frequency (MHz)	Spurous Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization				
5360.00	-48.21	5.41	-42.80	-13.00	29.80	Vertical				
8040.00	-50.11	13.33	-36.78	-13.00	23.78	Vertical				
10720.00	-50.50	19.67	-30.83	-13.00	17.83	Vertical				
5360.00	-48.49	5.41	-43.08	-13.00	30.08	Horizontal				
8040.00	-49.21	13.33	-35.88	-13.00	22.88	Horizontal				
10720.00	-50.37	19.67	-30.70	-13.00	17.70	Horizontal				

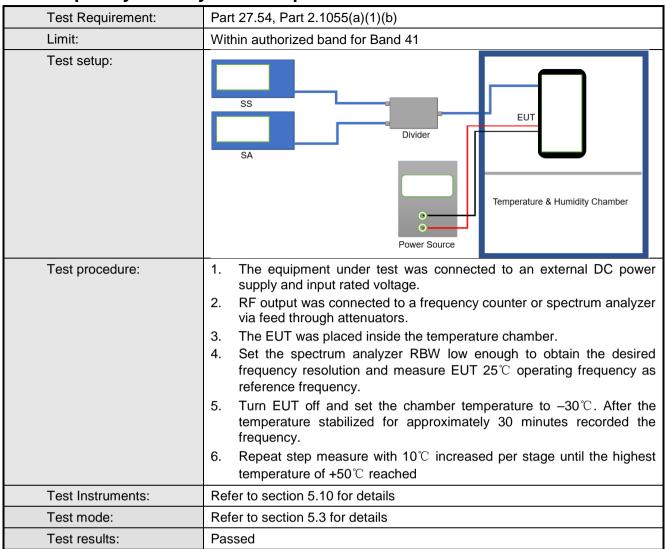
Remark:

The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.

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6.6 Frequency stability V.S. Temperature measurement



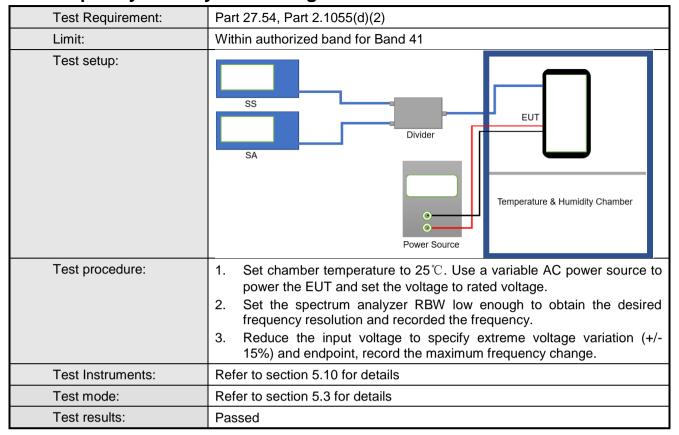
Measurement Data:

Refer to Appendix A - Antenna0~3, Appendix B - Antenna4~7

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6.7 Frequency stability V.S. Voltage measurement



Measurement Data:

Refer to Appendix A - Antenna0~3, Appendix B - Antenna4~7

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