



FCC - TEST REPORT

Report Number	:	709502102919-00		Date of Issue:	March 24, 2021		
Model	:	CBU-IPEX					
Product Type	:	Wi-Fi and Bluetooth	n module				
Applicant	:	Hangzhou Tuya Inf	ormation	Technology Co.,	Ltd		
Address	:		Room701,Building3,More Center,No.87 GuDun Road,Hangzhou,Zhejiang China				
Manufacturer	:	Hangzhou Tuya Inf	ormation	Technology Co.,	Ltd		
Address	:	Room701,Building3 Road,Hangzhou,Zh			un		
Test Result	:	■ Positive	🗆 Negati	ve			
Total pages including Appendices	:	35					

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1 Table of Contents

1	Та	able of Contents
2	D	etails about the Test Laboratory
3	D	escription of the Equipment under Test4
4	S	ummary of Test Standards
5	S	ummary of Test Results6
6	G	eneral Remarks
7	Te	est Setups 8
8	S	ystems test configuration11
9	Te	echnical Requirement
9	.1	Conducted Emission 12
9	.2	Conducted peak output power15
9	.3	6dB bandwidth
9	.4	Power spectral density
9	.5	Spurious RF conducted emissions 21
9	.6	Band edge
9	.7	Spurious radiated emissions for transmitter27
10		Test Equipment List
11		System Measurement Uncertainty 33
12		Photographs of Test Set-ups
13		Photographs of EUT



2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch No.16 Lane, 1951 Du Hui Road, Shanghai 201108, P.R. China
Test Firm FCC Registration Number:	820234
Test Firm IC Registration Number:	25988
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3 Description of the Equipment under Test

Description of the Equipment Under Test

Product:	Wi-Fi and Bluetooth module
Model no.:	CBU-IPEX
FCC ID:	2ANDL-CBU-IPEX
Options and accessories:	NA
Rating:	DC 3.0-3.6V
RF Transmission Frequency:	For 802.11b/g/n-HT20: 2412~2462 MHz For 802.11n-HT40: 2422~2452 MHz For 802.15.1:2402~2480 MHz
No. of Operated Channel:	2.4GHz Wi-Fi: 11 for 802.11b/802.11g/802.11n(H20) 7 for 802.11n(H40) 2.4GHz BLE: 40
Modulation:	For 2.4GHz Wi-Fi: Direct Sequence Spread Spectrum (DSSS) for 802.11b Orthogonal Frequency Division Multiplexing (OFDM) for 802.11g/n For 2.4GHz BLE: GFSK
Antenna Type:	FPC antenna
Antenna Gain:	3.3 dBi
Description of the EUT:	The Equipment Under Test (EUT) is a low-power embedded Wi-Fi and Bluetooth module (5.1). We tested it and listed the worst data in this report.
Test sample no.:	SHA-557632-1

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain or any information supplied.



4 Summary of Test Standards

	Test Standards
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES
10-1-2014 Edition	Subpart C - Intentional Radiators

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 and ANSI C63.10 (2013).

5 Summary of Test Results

	Technical Requirement	nts				
FCC Part 15 Subpart C		T	1	r		
Test Condition		Pages	Test		st Resi	
		1 ugoo	Site	Pass	Fail	<u>N/A</u>
§15.207	Conducted emission AC power port	12-14	Site 1			
§15.247 (b) (3)	Conducted peak output power	15-16	Site 1	\square		
§15.247(a)(1)	20dB bandwidth					\square
§15.247(a)(1)	Carrier frequency separation					
§15.247(a)(1)(iii)	Number of hopping frequencies					\boxtimes
§15.247(a)(1)(iii)	Dwell Time					\square
§15.247(a)(2)	6dB bandwidth and 99% Occupied Bandwidth	17-18	Site 1			
§15.247(e)	Power spectral density	19-20	Site 1			
§15.247(d)	Spurious RF conducted emissions	21-24	Site 1	\square		
§15.247(d)	Band edge	25-26	Site 1			
§15.247(d) & §15.209	Spurious radiated emissions for transmitter	27-31	Site 1	\square		
§15.203	Antenna requirement	See not	e 1			

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses an FPC Antenna, which gain is 3.3dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.





6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2ANDL-CBU-IPEX, complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

This report is only for the 2.4GHz BLE test report, for the 2.4GHz Wi-Fi test report please refer to 709502102915-00.

According to the client's declaration, the "ILAC – A2LA Accredited" symbol is added to the report.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed
- □ Not Performed

The Equipment under Test

■ - Fulfills the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: March 9, 2021

Testing Start Date: March 14, 2021

Testing End Date: March 19, 2021

-TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Reviewed by:

Prepared by:

Tested by:

Hui TONG EMC Section Manager Wenqiang LU EMC Project Engineer

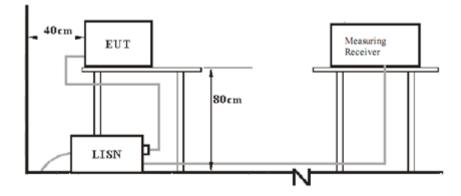
iaki Xu

Jiaxi XU EMC Test Engineer



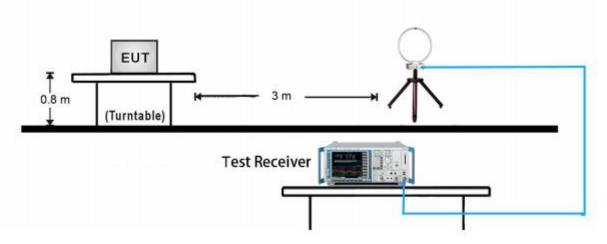
7 Test Setups

7.1 AC Power Line Conducted Emission test setups



7.2 Radiated test setups

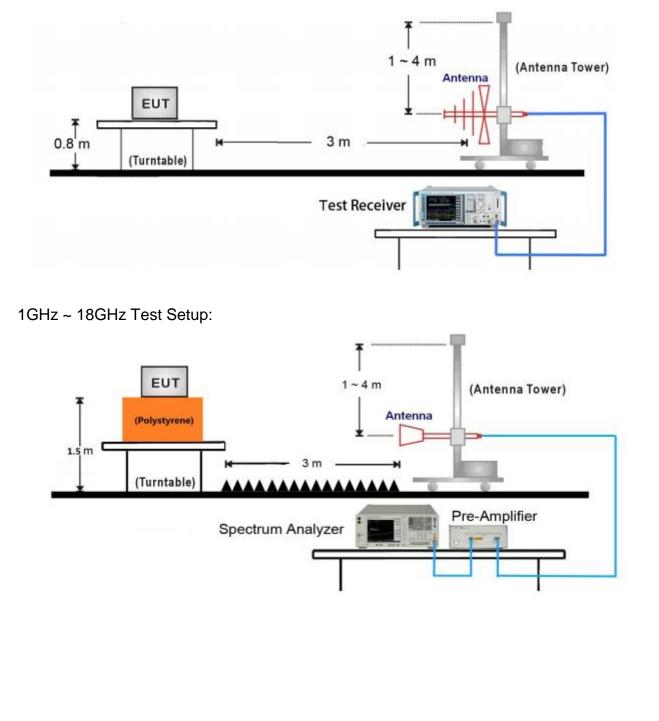
9kHz ~ 30MHz Test Setup:







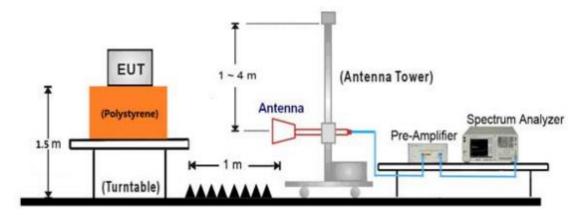
30MHz ~ 1GHz Test Setup:



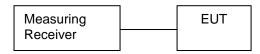




18GHz ~ 25GHz Test Setup:



7.3 Conducted RF test setups





8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenove	X240	Notebook

Test software: EMI_Test_Tool

The system was configured to channel 0, 19, and 39 for the test.

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.

9 Technical Requirement

9.1 Conducted Emission

Test Method

- 1. The EUT was placed on a table, which is 0.8m above ground plane
- 2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
- 3. Maximum procedure was performed to ensure EUT compliance
- 4. A EMI test receiver is used to test the emissions from both sides of AC line

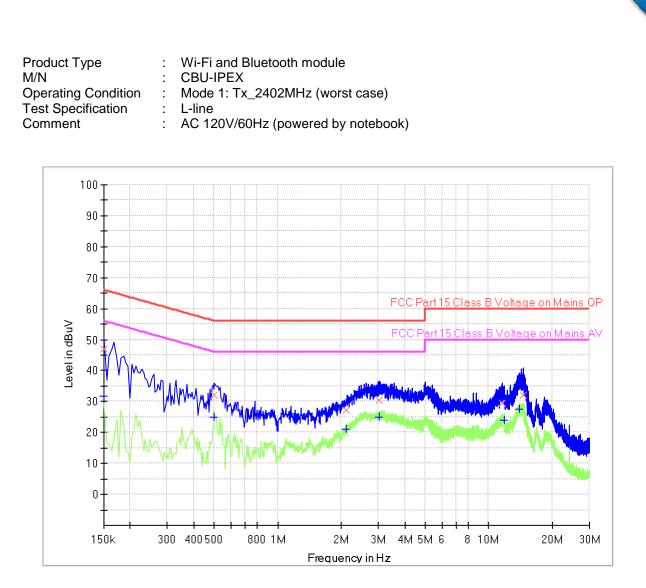
Limit

According to §15.207, conducted emissions limit as below:

	Frequency	QP Limit	AV Limit				
_	MHz	dBµV	dBµV				
	0.150-0.500	66-56*	56-46*				
	0.500-5	56	46				
	5-30	60	50				
Г	Decreasing linearly with legarithm of the frequency						

Decreasing linearly with logarithm of the frequency



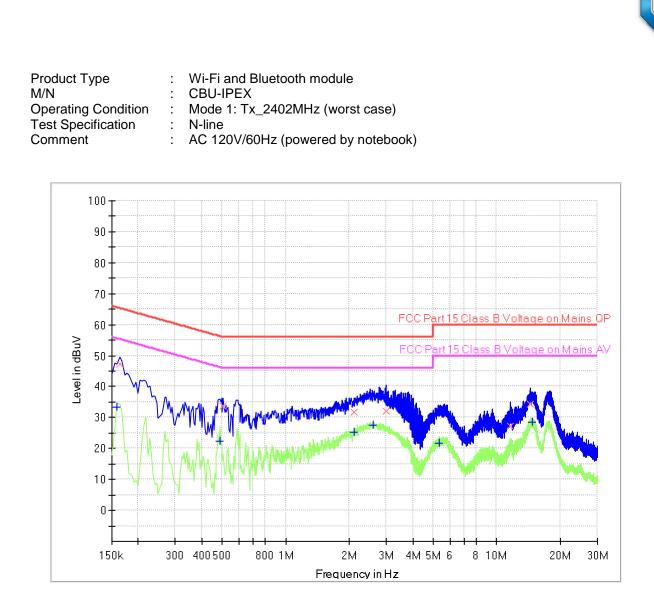


Final_Result

Report Number: 709502102919-00

Frequency	Quasi	CAverag	Limit	Margin	Meas.	Bandwidth	Line	Corr.
(MHz)	Peak	е	(dBuV)	(dB)	Time	(kHz)		(dB)
	(dBuV)	(dBuV)			(ms)			
0.150000	-	31.85	56.00	24.15	1000.0	9.000	L1	19.5
0.150000	46.85		66.00	19.15	1000.0	9.000	L1	19.5
0.501000		25.10	46.00	20.90	1000.0	9.000	L1	19.5
0.501000	31.99		56.00	24.01	1000.0	9.000	L1	19.5
2.121000		21.09	46.00	24.91	1000.0	9.000	L1	19.5
2.121000	27.11		56.00	28.89	1000.0	9.000	L1	19.5
3.030000	30.33		56.00	25.67	1000.0	9.000	L1	19.5
3.030000		24.82	46.00	21.18	1000.0	9.000	L1	19.5
11.616000	29.39		60.00	30.61	1000.0	9.000	L1	19.7
11.791500		23.88	50.00	26.12	1000.0	9.000	L1	19.7
14.019000		27.48	50.00	22.52	1000.0	9.000	L1	19.7
14.617500	32.20		60.00	27.80	1000.0	9.000	L1	19.7

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB) Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator China



Final_Result

Report Number: 709502102919-00

Frequency	Quasi	CAverag	Limit	Margin	Meas.	Bandwidth	Line	Corr.
(MHz)	Peak	e	(dBuV)	(dB)	Time	(kHz)		(dB)
(11112)	(dBuV)	(dBuV)	(ubuv)	(ub)	(ms)	(((12)		(ub)
	(ubuv)	(ubuv)			(113)			
0.159000		33.25	55.52	22.27	1000.0	9.000	Ν	19.5
0.163500	47.20		65.28	18.08	1000.0	9.000	Ν	19.5
0.487500		22.32	46.21	23.89	1000.0	9.000	Ν	19.5
0.505500	33.83		56.00	22.17	1000.0	9.000	Ν	19.5
2.103000		25.12	46.00	20.88	1000.0	9.000	Ν	19.5
2.107500	31.61		56.00	24.39	1000.0	9.000	Ν	19.5
2.598000		27.57	46.00	18.43	1000.0	9.000	Ν	19.6
2.980500	31.95		56.00	24.05	1000.0	9.000	Ν	19.6
5.316000		21.77	50.00	28.23	1000.0	9.000	Ν	19.6
11.629500	27.16		60.00	32.84	1000.0	9.000	Ν	19.8
14.446500	34.20		60.00	25.80	1000.0	9.000	Ν	19.8
14.820000		28.36	50.00	21.64	1000.0	9.000	Ν	19.8

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB) Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator China



9.2 Conducted peak output power

Test Method

- Use the following spectrum analyzer settings: RBW > the 6 dB bandwidth of the emission being measured, VBW≥3RBW, Span≥3RBW Sweep = auto, Detector function = peak, Trace = max hold.
- 2. Add a correction factor to the display.
- 3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power.

Limits

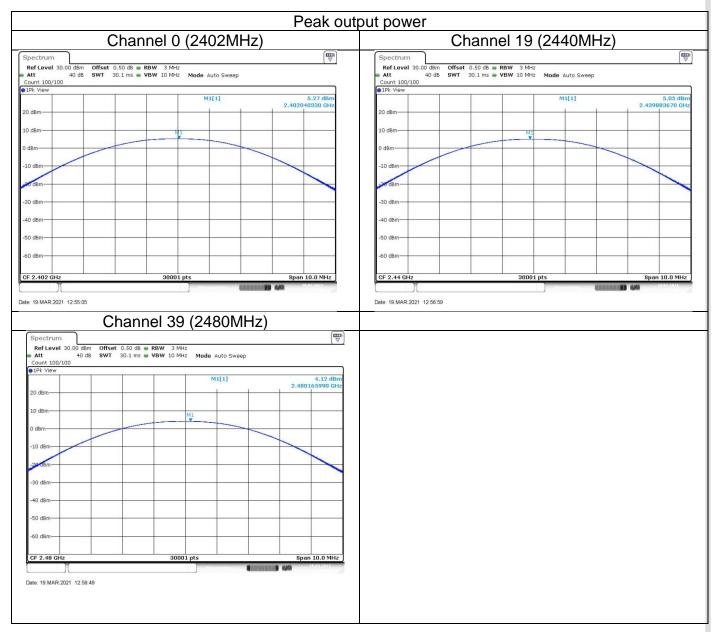
According to §15.247 (b) (3), conducted peak output power limit as below:

Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30

Test result as below table

	Conducted Peak	
Frequency	Output Power	Result
MHz	dBm	
Low channel 2402MHz	5.27	Pass
Middle channel 2440MHz	5.05	Pass
High channel 2480MHz	4.12	Pass





EMC_SHA_F_R_02.10E

Page 16 of 35 Rev. 20.00

9.3 6dB bandwidth

Test Method

- 1. Use the following spectrum analyzer settings: RBW=100K, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.
- 3. Allow the trace to stabilize, record the X dB Bandwidth value.

Limit

Limit [kHz]

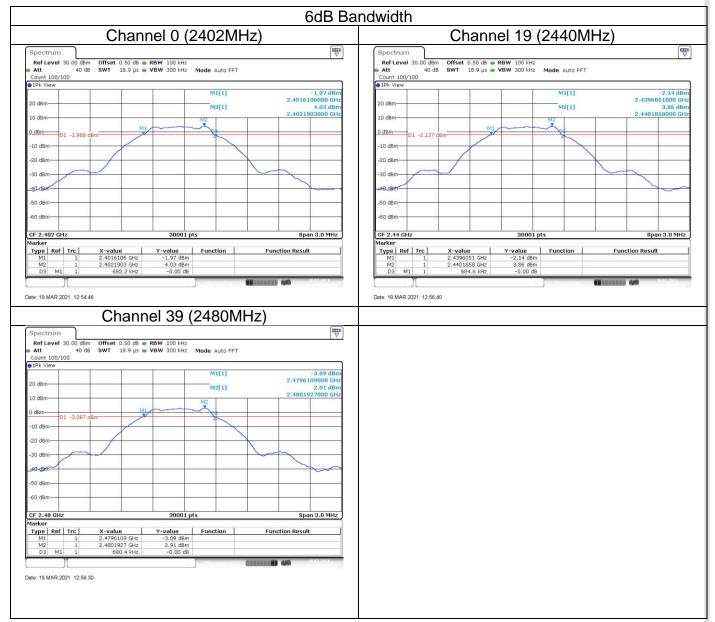
≥500

Test result

Frequency MHz	6dB bandwidth kHz	Result
Top channel 2402MHz	682	Pass
Middle channel 2440MHz	685	Pass
Bottom channel 2480MHz	680	Pass







EMC_SHA_F_R_02.10E

Page 18 of 35 Rev. 20.00



9.4 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

- Set analyzer center frequency to DTS channel center frequency. RBW=3kHz,VBW≥3RBW,Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
- 2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 3. Repeat above procedures until other frequencies measured were completed.

Limit

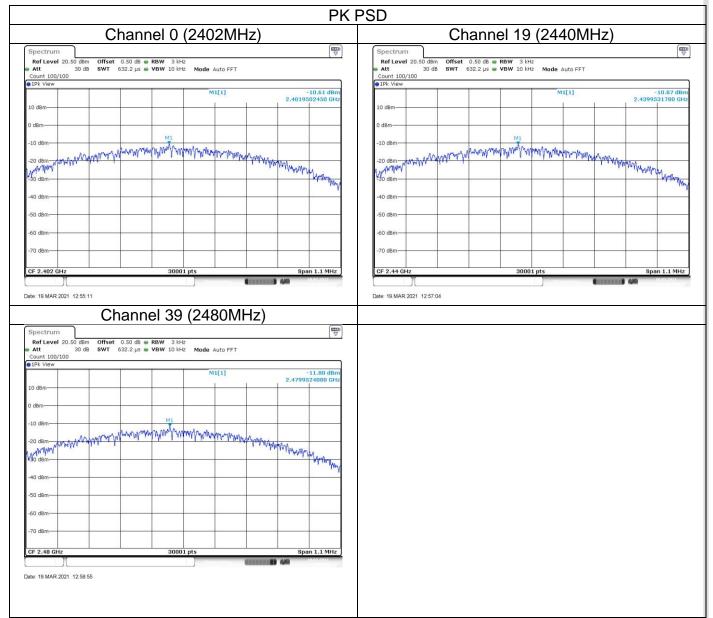
Limit [dBm/3kHz]

≤8

Test result

_	Power spectral	– .
Frequency	density	Result
MHz	dBm/3kHz	
Top channel 2402MHz	-10.61	Pass
Middle channel 2440MHz	-10.87	Pass
Bottom channel 2480MHz	-11.8	Pass





EMC_SHA_F_R_02.10E

Page 20 of 35 Rev. 20.00



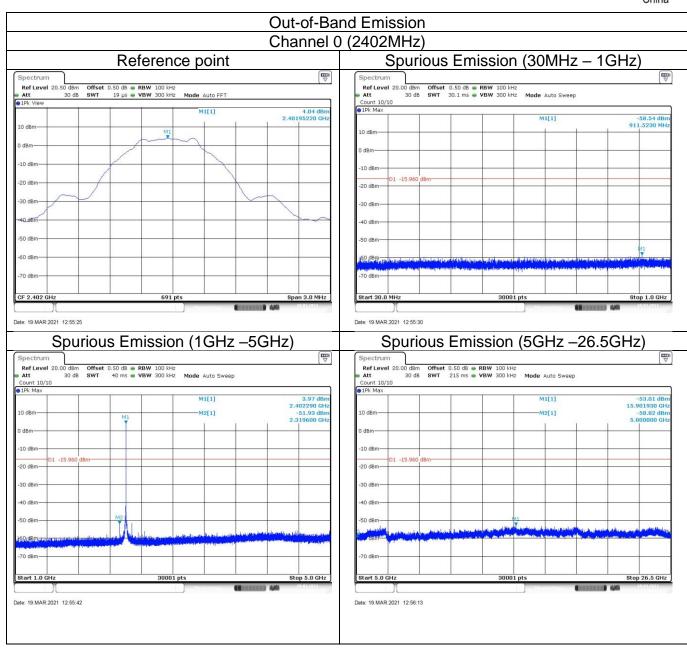
9.5 Spurious RF conducted emissions

Test Method

- 1. Establish a reference level by using the following procedure:
 - a. Set RBW=100 kHz. VBW≥3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
 - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
- 2. Use the maximum PSD level to establish the reference level.
 - a. Set the center frequency and span to encompass frequency range to be measured.
 - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
- 3. Repeat above procedures until other frequencies measured were completed.

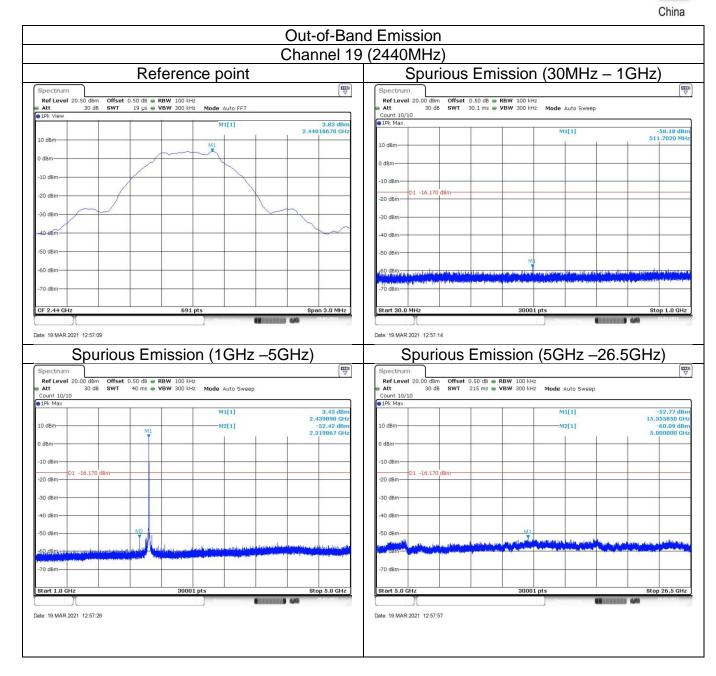
Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20



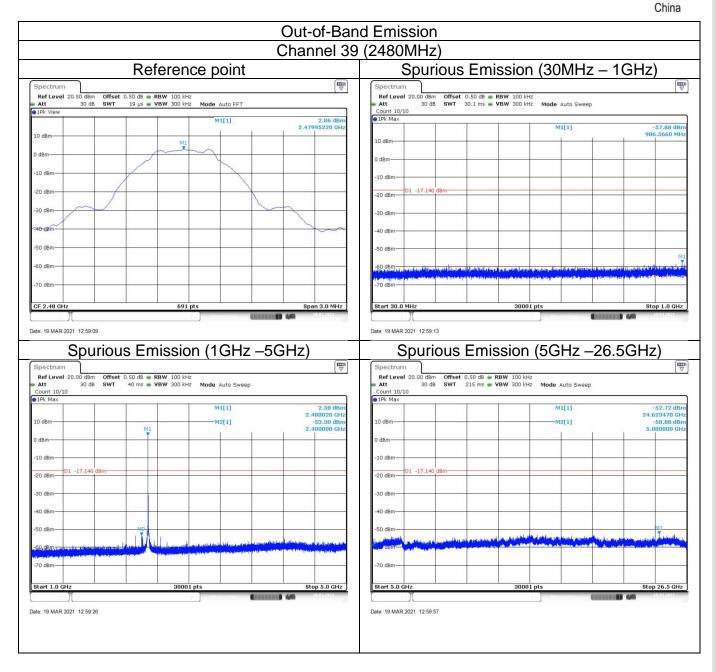
Note: The emission which exceed the limit is the fundamental.





Note: The emission which exceed the limit is the fundamental.

SUL



Note: The emission which exceed the limit is the fundamental.

SUD

9.6 Band edge

Test Method

- Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

Limit

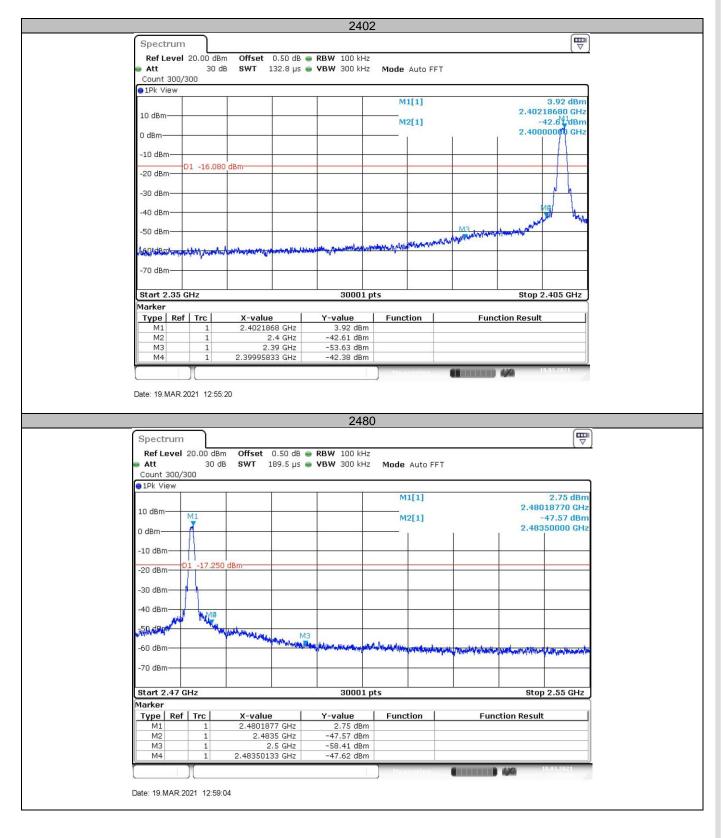
According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).



Report Number: 709502102919-00



Test result





9.7 Spurious radiated emissions for transmitter

Test Method

- 1. The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. Use the following spectrum analyzer settings According to C63.10:

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz to 120 kHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

a) RBW = 1MHz.

b) VBW \geq [3 × RBW].

c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \leq RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.f) Perform a trace average of at let

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
1) If power averaging (rms) mode was used in the preceding step e), then the correction



factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Limit

The radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section15.205 must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field St uV		leasured Distan Meters	ce
0.009~0.490	2400/F	[;] (kHz)	300	
0.490~1.705	24000/	F (kHz)	30	
1.705~30	3	0	30	
Frequency MHz	Field Strength uV/m	Field Strengt dBµV/m	h De	etector
30-88	100	40		QP
88-216	150	43.5		QP
216-960	200	46		QP
960-1000	500	54		QP
Above 1000	500	54		AV
Above 1000	5000	74		PK



Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The only worse case (which is subject to the maximum EIRP) test result is listed in the report.

Transmitting spurious emission test result as below:

	Channel (2402MHz)						
Frequency	Mmission Level	Limit	Margin	Detector	Polarization		
MHz	dBuV/m	dBµV/m	dB				
2388.6	57.63	74.0	16.37	Peak	Horizontal		
2388.6	50.00	54.0	4	Average	Horizontal		
9607.7	51.41	74.0	22.59	Peak	Horizontal		
2387.2	52.18	74.0	21.82	Peak	Vertical		
2387.2	44.30	54.0	9.7	Average	Vertical		
5060.7	44.64	74.0	29.36	Peak	Vertical		

Channel (2440MHz)

Frequency	Mmission Level	Limit	Margin	Detector	Polarization
MHz	dBuV/m	dBµV/m	dB		
6995.3	47.35	74.0	26.65	Peak	Horizontal
7339.9	47.47	74.0	26.53	Peak	Vertical

Channel (2480MHz)

Frequency MHz	Mmission Level dBuV/m	Limit dBµV/m	, Margin dB	Detector	Polarization
2483.6	53.76	74.0	20.24	Peak	Horizontal
2483.6	46.40	54.0	7.6	Average	Horizontal
6162.9	45.90	74.0	28.1	Peak	Horizontal
2483.6	50.98	74.0	23.02	Peak	Vertical
7389.7	47.96	74.0	26.04	Peak	Vertical

Remark:

(1) Emission level= Original Receiver Reading + Correct Factor

(2) Correct Factor = Antenna Factor + Cable Loss - Amplifier gain

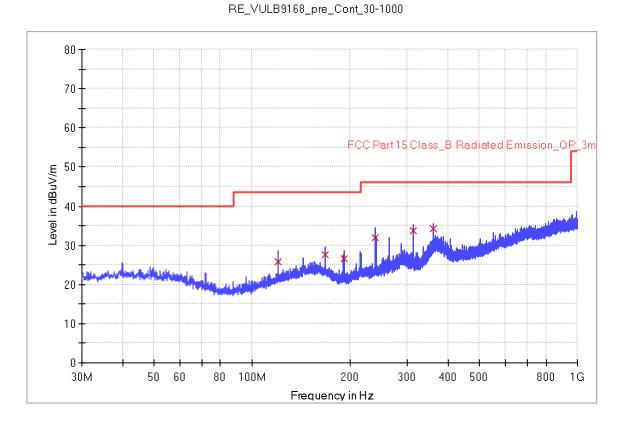
(3) Margin = limit – Corrected Reading



The worst case of Radiated Emission below 1GHz:

Site: 3 meter chamber	Time: 2021/03/14 - 12:02
Limit: FCC_Part15.209 and RSS-GEN 8.8_RE(3m)	Engineer: Wenqiang LU
Probe: VULB9168	Polarity: Horizontal
UT: Wi-Fi and Bluetooth module, Model no: CBU-IPEX	Power: 120VAC, 60Hz
Note: Transmit by at channel 2402MHz.	

Note: Pre-scan with three orthogonal axis and worst case as X axis.



Limit and Margin

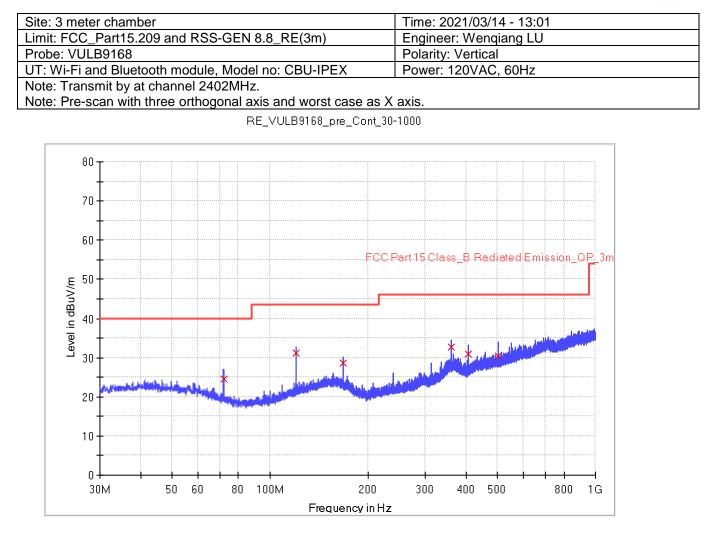
Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
120.000000	25.9	1000.0	120.000	100.0	Н	158.0	13.5	17.6	43.5
167.920000	27.7	1000.0	120.000	100.0	н	147.0	14.9	15.8	43.5
191.880000	26.6	1000.0	120.000	100.0	н	102.0	12.1	16.9	43.5
239.320000	32.1	1000.0	120.000	100.0	Н	326.0	13.4	14.0	46.0
311.920000	33.8	1000.0	120.000	100.0	Н	61.0	15.3	12.2	46.0
360.040000	34.3	1000.0	120.000	100.0	Н	81.0	16.5	11.7	46.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.





Limit and Margin

	V								
Frequency	QuasiPeak	Meas.	Bandwidth	Height	Pol	Azimuth	Corr.	Margin -	Limit -
(MHz)	(dBuV/m)	Time	(kHz)	(cm)		(deg)	(dB)	QPK	QPK
		(ms)						(dB)	(dBuV/m)
72.000000	24.7	1000.0	120.000	100.0	V	156.0	11.5	15.3	40.0
119.920000	31.2	1000.0	120.000	100.0	V	61.0	13.5	12.4	43.5
167.920000	28.5	1000.0	120.000	100.0	V	74.0	14.9	15.0	43.5
359.960000	32.7	1000.0	120.000	100.0	V	205.0	16.5	13.3	46.0
407.960000	31.0	1000.0	120.000	100.0	V	118.0	17.5	15.0	46.0
503.960000	30.3	1000.0	120.000	100.0	V	174.0	19.6	15.7	46.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

10 Test Equipment List

List of Test Instruments Test Site1						
	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
С	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2020-8-4	2021-8-3
	EMI Test Receiver	Rohde & Schwarz	ESR3	101906	2020-8-4	2021-8-3
	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2020-8-4	2021-8-3
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	961	2019-3-16	2022-3-15
	Horn Antenna	Rohde & Schwarz	HF907	102393	2018-6-11	2021-4-1
	Pre-amplifier	Rohde & Schwarz	SCU-18D	19006451	2020-8-4	2021-8-3
RE	Loop antenna	Rohde & Schwarz	HFH2-Z2	100443	2020-6-28	2021-6-27
	DOUBLE-RIDGED WAVEGUIDE HORN WITH PRE-AMPLIFIER (18 GHZ - 40 GHZ)	ETS-Lindgren	3116C-PA	002222727	2020-9-23	2021-9-22
	3m Semi-anechoic chamber	TDK	9X6X6		2018-5-11	2021-5-10
	EMI Test Receiver	Rohde & Schwarz	ESR3	101907	2020-8-4	2021-8-3
CE	LISN	Rohde & Schwarz	ENV216	101924	2020-8-4	2021-8-3
		Measurement S	oftware Inform	ation		
Test Item	Software	Manufacturer		Vers	sion	
С	Bluetooth and WiFi Test System	Shenzhen JS tonscend co.,Itd		2.6.77	7.0518	
RE	EMC 32	Rohde & Schwarz		V9.1	5.00	
CE	EMC 32	Rohde & Schwarz		V9.1	5.03	

C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth and 99% Occupied Bandwidth ٠
- Power spectral density* ٠
- Spurious RF conducted emissions ٠
- Band edge •





11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, ±3.16dB
Radiated Disturbance	30MHz to 1GHz, ±5.03dB (Horizontal) ±5.12dB (Vertical) 1GHz to 18GHz, ±5.49dB 18GHz to 40GHz, ±5.63dB
Carrier power conducted measurement	50MHz~18GHz, ±1.238dB
Spurious Emission Conducted Measurement	9kHz ~40GHz, ± 1.224dB



12 Photographs of Test Set-ups

Refer to the < Test Setup photos >.

Report Number: 709502102919-00



13 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

THE END