

FCC - TEST REPORT

Report Number	:	68.710.19.0474.01	Date of Issu	ue:	December 12, 2019
Model	<u>:</u>	DT2018338			_
Product Type	:	APP Mouse			_
Applicant	:	HangzhouTianyuan Pet	Products Co.,Ltd		
Address	<u>:</u>	No.10-1 Xingling Rd., Xi	ngQiao Town, Linpir	ng, Yuhang	J,
		311100 Hangzhou, PEO	PLE'S REPUBLIC (OF CHINA	
Production Facility	<u>:</u>	HangzhouTianyuan Pet	Products Co.,Ltd		
Address	:	No.10-1 Xingling Rd., Xi	ngQiao Town, Linpir	ng, Yuhang	J,
		311100 Hangzhou, PEO	PLE'S REPUBLIC (OF CHINA	
Test Result	:	■ Positive □ I	Negative		
Total pages including					
Appendices	:	29			

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch is a subcontractor to TÜV SÜD Product Service GmbH according to the principles outlined in ISO 17025.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities in Europe for any modifications made to the production units which result in non-compliance to the relevant regulations. TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch issued reports.

This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval.



Table of Contents

1	T	able of Contents	2
2	D	Details about the Test Laboratory	3
3	D	Description of the Equipment under Test	4
4	S	Summary of Test Standards	5
5	S	Summary of Test Results	6
6	G	General Remarks	7
7	T	est Setups	8
8	S	Systems test configuration	9
9	T	echnical Requirement	10
	9.1	Conducted Emission	10
	9.2	Conducted Peak output power	13
	9.3	6dB bandwidth	15
	9.4	Power spectral density	17
	9.5	Spurious RF conducted emissions	19
	9.6	Band edge	23
	9.7	Spurious radiated emissions for transmitter	25
10)	Test Equipment List	28
11		System Measurement Uncertainty	29



2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Building 12&13, Zhiheng Wisdomland Business Park,

Nantou Checkpoint Road 2, Nanshan District,

Shenzhen City, 518052,

P. R. China

FCC Registration

Number:

514049

ISED#: 10320A

CAB identifier: CN0077

Telephone: 86 755 8828 6998 Fax: 86 755 8828 5299



3 Description of the Equipment under Test

Product/PMN: APP Mouse

Model no./HVIN: DT2018338

FCC ID: 2AL5X-DT2018338

Ratings: DC 3.7V, 0.37mW (for inner battery)

DC 5V, 1A (for charging input)

RF Transmission Frequency: 2402MHz-2480MHz

No. of Operated Channel: 40

Modulation: GFSK

Antenna Type: PCB Antenna

Antenna Gain: 2dBi

Description of the EUT: The Equipment Under Test (EUT) is a APP Mouse supports 2.4GHz BLE

function.



4 Summary of Test Standards

	Test Standards
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES
10-1-2018 Edition	Subpart C - Intentional Radiators

All the test methods were according to KDB558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10 (2013).



5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C			1			
Test Condition		Pages	Test	Test Result		
			Site	Pass	Fail	N/A
§15.207	Conducted emission AC power port	10	Site 1	\boxtimes		
§15.247 (b) (1)	Conducted peak output power	13	Site 1			
§15.247(a)(1)	20dB bandwidth					\boxtimes
§15.247(a)(1)	Carrier frequency separation					\boxtimes
§15.247(a)(1)(iii)	Number of hopping frequencies					\boxtimes
§15.247(a)(1)(iii)	Dwell Time					\boxtimes
§15.247(a)(2)	6dB bandwidth	16	Site 1	\boxtimes		
§15.247(e)	Power spectral density	19	Site 1	\boxtimes		
§15.247(d)	Spurious RF conducted emissions	22	Site 1	\boxtimes		
§15.247(d)	Band edge	28	Site 1	\boxtimes		
§15.247(d) & §15.209	Spurious radiated emissions for transmitter	30	Site 1	\boxtimes		
§15.203	Antenna requirement	See r	See note 1			

Note 1: N/A=Not Applicable.

Note 2: The EUT uses a PCB antenna, which gain is 2dBi. 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: 2AL5X-DT2018338 complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules.

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: November 19, 2019

Testing Start Date: December 04, 2019

Testing End Date: December 06, 2019

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

Reviewed by:

Prepared by:

Tested by:

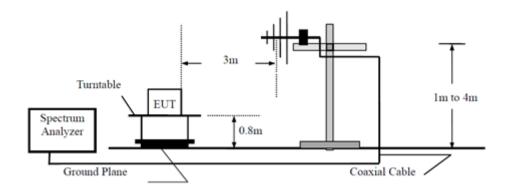
Jessie He EMC Project Manager Henry Chen EMC Project Engineer Louise Liu EMC Test Engineer



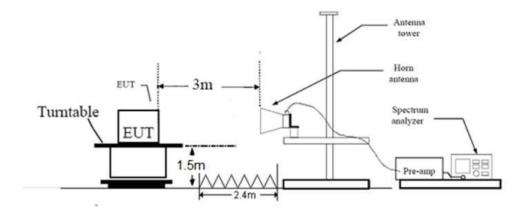
7 Test Setups

7.1 Radiated test setups

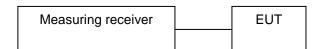
Below 1GHz



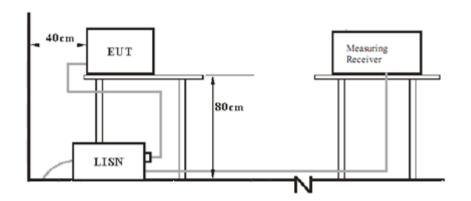
Above 1GHz



7.2 Conducted RF test setups



7.3 AC Power Line Conducted Emission test setups





8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION MANUFACTURER		MODEL NO.	S/N	

Test software information:

Test Software Version		
Modulation	Setting TX Power	Packet Type
GFSK	-2dBm	/

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



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

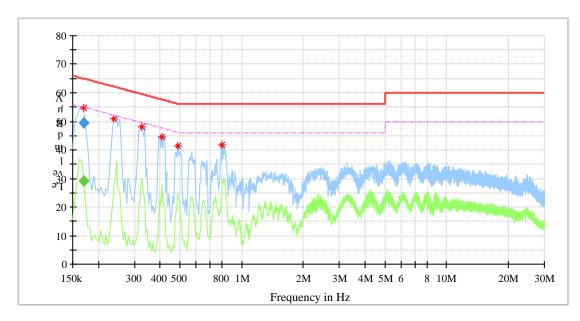
Frequency	QP Limit	AV Limit	
MHz	dΒμV	dΒμV	
0.150-0.500	66-56*	56-46*	
0.500-5	56	46	
5-30	60	50	



Conducted Emission

Product Type : APP Mouse M/N : DT2018338
Operating Condition : Charging
Test Specification : Power Line

Test Specification : Power Line, Live Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.169500	54.59		65.16	10.57	L1	10.3
0.238000	51.02		62.17	11.15	L1	10.3
0.326000	48.00		59.55	11.56	L1	10.3
0.410000	44.43		57.65	13.22	L1	10.3
0.490000	41.49		56.17	14.68	L1	10.3
0.806000	41.93		56.00	14.07	L1	10.3

Final_Result

Frequency	QuasiPeak	Average	Limit	Margin	Line	Corr.
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)		(dB)
0.169500		29.15	54.98	25.83	L1	10.3
0.169500	49.60		64.98	15.38	L1	10.3

Remark:

Level=Reading Level + Correction Factor Correction Factor=Cable Loss + LISN Factor

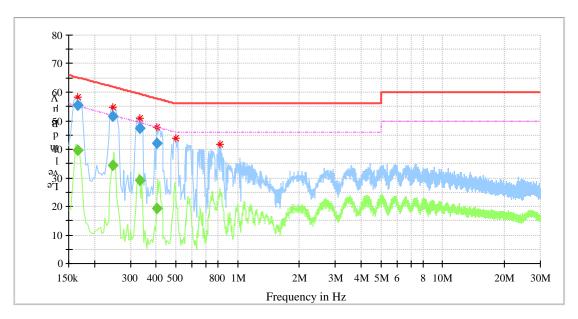
(The Reading Level is recorded by software which is not shown in the sheet)



Conducted Emission

Product Type : APP Mouse M/N : DT2018338 Operating Condition : Charging

Test Specification : Power Line, Neutral Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.165500	58.33		64.96	6.63	N	10.3
0.245500	54.63		61.76	7.13	N	10.3
0.333500	50.99		59.35	8.36	N	10.3
0.401500	47.76		57.81	10.05	N	10.3
0.498000	43.70		56.03	12.33	N	10.3
0.818000	41.76		56.00	14.24	N	10.3

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.165500		39.77	55.18	15.41	N	10.3
0.165500	55.61		65.18	9.57	N	10.3
0.245500		34.39	51.91	17.52	N	10.3
0.245500	51.53		61.91	10.38	N	10.3
0.333500		29.17	49.36	20.19	N	10.3
0.333500	47.25		59.36	12.11	N	10.3
0.401500		19.30	47.82	28.52	N	10.3
0.401500	42.11		57.82	15.71	N	10.3

Remark:

Level=Reading Level + Correction Factor Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)



9.2 Conducted Peak output power

Test Method

- The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
- 2. Setting the highest output power level of the EUT
- 3. Use the following spectrum analyzer settings:
 RBW≥DTS bandwidth, VBW≥3RBW, Sweep = auto, Detector function = peak,
 Trace = max hold, allow trace to fully stabilize.
- 4. Record the peak power value.

Test Setup



Limits

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

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

Test result as below table

Frequency	Conducted peak Output Power	Result
MHz	dBm	
Top channel 2402MHz	-5.72	Pass
Middle channel 2440MHz	-6.43	Pass
Bottom channel 2480MHz	-6.61	Pass



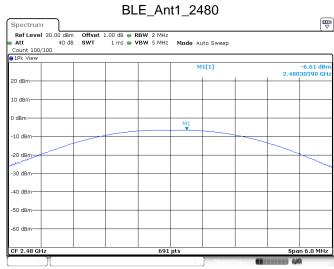
Test Graphs

For BLE



ate: 6 DEC 2019 18:08:5





Date: 6 DEC 2019 18:27:23



9.3 6dB bandwidth

Test Method

- 1. Connect EUT test port to spectrum analyzer.
- 2. Use the following spectrum analyzer settings: Set RBW \geq 1% of the 99% bandwidth, VBW \geq RBW.
 - Sweep = auto, Detector function = peak, Trace = max hold
- 3. 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 ≥ 6 dB.
- 4. Allow the trace to stabilize, record the X dB Bandwidth value.

Limit

Limit [kHz]	
≥500	

Test result

Test Mode	Channel (MHz)	6dB bandwidth (MHz)	Limit (KHz)	Verdict
BLE	2402	0.716	≥500	PASS
BLE	2440	0.716	≥500	PASS
BLE	2480	0.716	≥500	PASS



Test Graphs

For BLE



Date: 6 DEC 2019 18:08:4



BLE_Ant1_2480

Spectrum

Ref Level 30.00 dbm Offset 1.00 db RBW 50 kHz
Att 40 db SWT 37.9 μs VBW 200 kHz Mode Auto FFT

Count 100/100

TPk View

M1[1] -9.08 dbm
2.47998800 GHz
1.034965035 MHz

10 dbm
-10 dbm
-20 dbm
-30 dbm
-30 dbm
-40 dbm
-50 dbm
-50 dbm
-60 dbm

Date: 6 DEC 2019 18:27:16



9.4 Power spectral density

Test Method

- 1. Connect EUT test port to spectrum analyzer.
- 2. 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.
- 3. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 4. Repeat above procedures until other frequencies measured were completed.

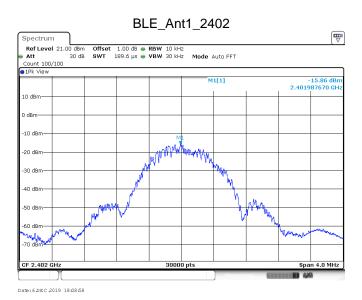
	Limit [dBm/3KHz]
,	≤8

Test result

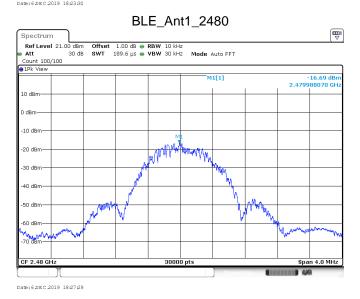
Test M	1ode	Channel (MHz)	Result (dBm/3KHz)	Limit(dBm/3KHz)	Verdict
BLI	E	2402	-15.86	8	PASS
BLI	E	2440	-16.84	8	PASS
BLI	E	2480	-16.69	8	PASS



Test Graphs









9.5 Spurious RF conducted emissions

Test Method

- 1. Connect EUT test port to spectrum analyzer.
- 2. 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.
- 3. 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.
- 4. Repeat above procedures until other frequencies measured were completed.

Limit

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

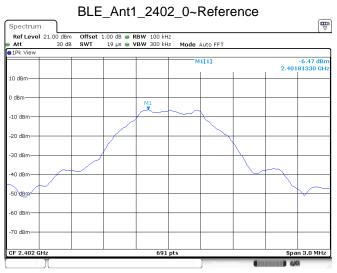
Test Result

TestMode	Antenna	Channel (MHz)	FreqRange (MHz)	RefLevel (dBm)	Result (dBm)	Limit (dBm)	Verdict
		2402	30~1000	-6.47	-68.04	<=-26.47	PASS
	Ant1	2402	1000~26500	-6.47	-48.37	<=-26.47	PASS
BLE		2440	30~1000	-7.42	-66.59	<=-27.42	PASS
BLE		2440	1000~26500	-7.42	-48.78	<=-27.42	PASS
		2480	30~1000	-7.38	-66.26	<=-27.38	PASS
		2480	1000~26500	-7.38	-47.8	<=-27.38	PASS

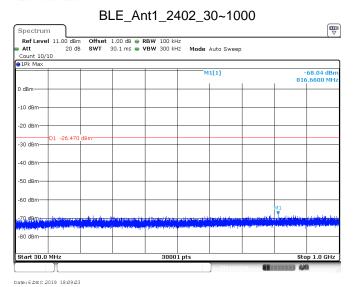


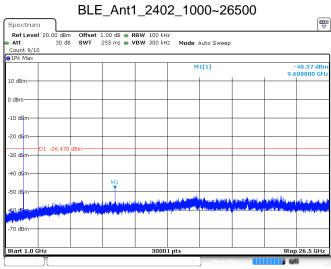
Test Graphs

For BLE



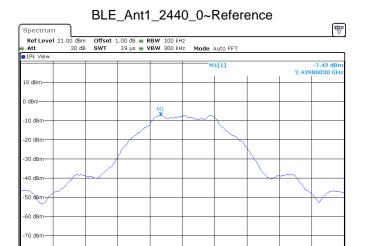
Date: 6 DEC 2019 18:09:13



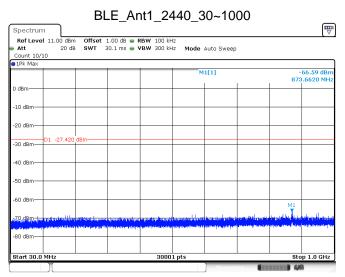


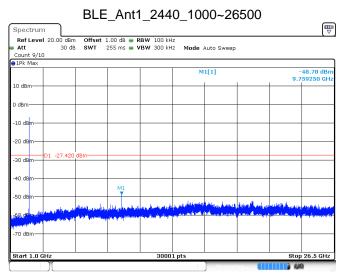
Date: 6 DEC 2019 18:09:34





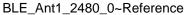
Date: 6 DEC 2019 18:23:36





Date: 6 DEC 2019 18:23:57

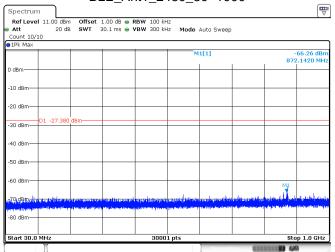






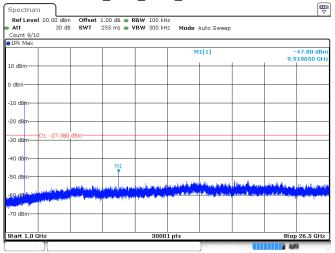
Date: 6 DEC 2019 18:27:44

BLE_Ant1_2480_30~1000



Date: 6 DEC 2019 18:27:54

BLE_Ant1_2480_1000~26500



Date: 6 DEC 2019 18:28:05



9.6 Band edge

Test Method

- 1. Connect EUT test port to spectrum analyzer.
- 2. Set spectrum analyzer setting as below:
 - Set RBW \geq 1% of the span, VBW \geq RBW.
 - Set Sweep = auto. Set Detector function = peak. Allow the trace to stabilize.
 - Set Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation.
- 3. Repeat above procedures until all frequencies measured were complete.

Limit

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

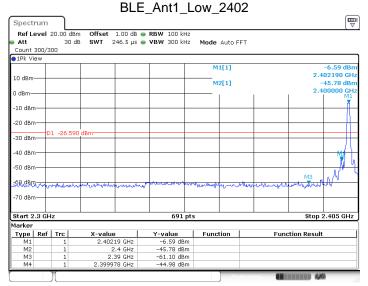
Test result

TestMode	Antenna	ChName	Channel (MHz)	RefLevel (dBm)	Result (dBm)	Limit (dBm)	Verdict
BLE	Ant1	Low	2402	-6.59	-44.98	<=-26.59	PASS
BLE	AIILI	High	2480	-7.34	-50.9	<=-27.34	PASS

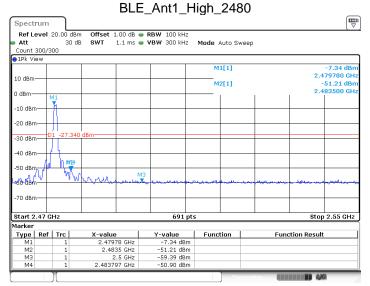


Test Graphs

For BLE-1M



Date: 6.DEC 2019 18:09:07



Date: 6.DEC 2019 18:27:38



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 120KHz, 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 = 1 MHz.
- b) VBW \ $[3 \times RBW]$.
- c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ 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 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 Strength uV/m	Field Strength dBµV/m	Detector
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

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.



Spurious radiated emissions for transmitter

Transmitting spurious emission test result as below:

For BLE

(30MHz - 1GHz)

Invested Frequency Range (MHz)	Frequency (MHz)	Maximum Emission Observed(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization	Detector	Factor (dB/m)
30-1000	891.47	32.93	46	13.07	Horizontal	Peak	-15.7
30-1000	943.26	35.66	46	10.34	Vertical	Peak	-14.6

2402MHz (Above 1GHz)

Invested Frequency ange (MHz)	Frequency (MHz)	Maximum Emission Observed(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization	Detector	Factor (dB/m)
30-1000	15926.25	49.17	74	24.83	Horizontal	Peak	20.5
30-1000	15928.59	48.67	74	25.33	Vertical	Peak	20.6

2440MHz (Above 1GHz)

	Invested Frequency Range (MHz)	Frequency (MHz)	Maximum Emission Observed(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization	Detector	Factor (dB/m)
	30-1000	15950.16	48.19	74	25.81	Horizontal	Peak	20.8
F	30-1000	15951.56	48.25	74	25.75	Vertical	Peak	20.7

2480MHz (Above 1GHz)

Invested Frequency Range (MHz)	Frequency (MHz)	Maximum Emission Observed(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization	Detector	Factor (dB/m)
30-1000	15881.25	46.85	74	27.15	Horizontal	Peak	19
30-1000	15926.72	48.34	74	25.66	Vertical	Peak	20.5

Remark:

- (1) "*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.
- (2) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are the noise floor or attenuated more than 10dB below the permissible limits or the field strength is too small to be measured.
- (3) Level=Reading Level + Correction Factor

Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain

Below 1GHz: Corrector factor = Antenna Factor + Cable Loss

(The Reading Level is recorded by software which is not shown in the sheet)



10 Test Equipment List

Site 1:

Conducted Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-14-001	101782	2020-6-28
LISN	Rohde & Schwarz	ENV432	68-4-87-16-001	101318	2020-7-19
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	2020-6-28
Test software	Rohde & Schwarz	EMC32	68-4-90-14-003- A10	Version9.15.00	N/A

TS8997 Test System

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	2020-6-28
Test software	Tonscend	System for BT/WIFI	68-4-74-14-006- A13	Version 2.5.77.0418	N/A

Radiated Spurious Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL. DUE
					DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-003	101031	2020-6-28
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	68-4-80-14-003	708	2020-7-5
Horn Antenna	Rohde & Schwarz	HF907	68-4-80-14-004	102295	2020-7-5
Wideband Horn Antenna	Q-PAR	QWH-SL-18- 40-K-SG	68-4-80-14-008	12827	2020-7-5
Pre-amplifier	Rohde & Schwarz	SCU 18	68-4-29-14-001	102230	2020-6-28
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	2020-7-16
Fully Anechoic Chamber	TDK	8X4X4	68-4-90-14-002		2020-7-7
Test software	Rohde & Schwarz	EMC32	68-4-90-14-002- A10	Version 9.15.00	N/A



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:

Site 1:

System Measurement Uncertainty				
Test Items	Extended Uncertainty			
Uncertainty for Conducted Emission 150kHz-30MHz	3.21dB			
Uncertainty for Radiated Spurious Emission 30MHz-1000MHz	Horizontal: 5.12dB;			
	Vertical: 5.10dB;			
Uncertainty for Radiated Spurious Emission 1000MHz-18000MHz	Horizontal: 5.01dB;			
	Vertical: 5.00dB			
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.16dB			
	Frequency test involved:			
	0.6×10-7 or 1%			