



FCC Radio Test Report

FCC ID: 2BCGWBS2100

This report concerns: Original Grant

Project No.	:	2402G028
Equipment	:	Smart Wi-Fi Light Switch, Dimmer
Brand Name	:	tp-link
Test Model		BS2100
Series Model		NA
Applicant	:	TP-LINK CORPORATION PTE. LTD.
Address		7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Manufacturer	:	TP-LINK CORPORATION PTE. LTD.
Address	:	7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Date of Receipt	:	Feb. 02, 2024
Date of Test	-	
	:	Mar. 12, 2024 ~ Apr. 02, 2024
Issued Date	:	Apr. 16, 2024
Report Version	:	R00
Test Sample	:	Engineering Sample No.: SSL2024020668 for radiated,
		SSL2024020667 for conducted.
Standard(s)	:	FCC CFR Title 47, Part 15, Subpart C

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

Prepared by : ___

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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 assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 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

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 are not use in determining the Pass/Fail results.



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	REF	PORT ISSUED HISTORY		
Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2402G028	R00	Original Report.	Apr. 16, 2024	Valic



1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of NVLAP: KDB 558074 D01 15.247 Meas Guidance v05r02

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

	FCC CFR Title 47, Part 15, Subpart C				
Standard(s) Section	Test Item	Test Result	Judgment	Remark	
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS		
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS		
15.247(a)(2)	Bandwidth	APPENDIX E	PASS		
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS		
15.247(d)	Conducted Spurious Emission	APPENDIX G	PASS		
15.247(e)	Power Spectral Density	APPENDIX H	PASS		
15.203	Antenna Requirement		PASS	Note(2)	

Note:

(1) "N/A" denotes test is not applicable to this device.

(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong 523792. BTL's Registration Number for FCC: 162128

BTL's Designation Number for FCC: CN5042

2.2 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 95.45% confidence level (based on a coverage factor (k=2)) The BTL measurement uncertainty as below table:

A. AC power line conducted emissions Measurement:

Test Site	Method	Measurement Frequency Range	<i>U</i> ,(dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.88

B. Radiated emissions Measurement:

Test Site	Method	Measurement Frequency Range	<i>U</i> ,(dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.70

Test Site	Method	Measurement Frequency Range	Ant. H / V	<i>U</i> ,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	Н	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	Н	3.98

Test Site	Method	Measurement Frequency Range	<i>U</i> ,(dB)
DG-CB03 (3m)		1GHz ~ 6GHz	4.08
	CISPR	6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	<i>U</i> ,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36

C. Other Measurement:

Test Item	Uncertainty
Bandwidth	0.90 %
Maximum Output Power	1.3 dB
Conducted Spurious Emission	1.9 dB
Power Spectral Density	1.4 dB
Temperature	0.8 °C
Humidity	2.2 %

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



2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	25°C	64%	AC 120V/60Hz	Hayden Chen	Mar. 28, 2024
Radiated Emissions-9 kHz to 30 MHz	24°C	50%	AC 120V/60Hz	Hayden Chen	Mar. 25, 2024
Radiated Emissions-30 MHz to 1000 MHz	23°C	44%	AC 120V/60Hz	Allen Tong	Mar. 25, 2024
Radiated Emissions-Above 1000	23°C	46%	AC 120V/60Hz	Allen Tong	Mar. 17, 2024
MHz	23°C	44%	AC 120V/60Hz	Allen Tong	Mar. 25, 2024
Bandwidth	23°C	51%	AC 120V/60Hz	Parker Yang	Mar. 15, 2024
Maximum Output Power	25°C	60%	AC 120V/60Hz	Gene Yang	Mar. 28, 2024
Conducted Spurious Emission	23°C	51%	AC 120V/60Hz	Parker Yang	Mar. 15, 2024
Power Spectral Density	23°C	51%	AC 120V/60Hz	Parker Yang	Mar. 15, 2024



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Wi-Fi Light Switch, Dimmer
Brand Name	tp-link
Test Model	BS2100
Series Model	N/A
Model Difference(s)	N/A
Software Version	1.X
Hardware Version	1.0
Power Source	AC Mains.
Power Rating	120V~, 60Hz
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	1Mbps
Max. Output Power	1Mbps: 7.32 dBm (0.0054 W)

Note:

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

2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

An	. Manufacturer	Product Model	Antenna Type	Connector	Gain (dBi)
1	BIG FIELD GLOBAL PTE. LTD	BS2100(US)1.6	Dipole	N/A	2.93



3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description		
Mode 1	TX Mode_1Mbps Channel 00/19/39		
Mode 2	TX Mode_1Mbps Channel 19		

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

AC power line conducted emissions test				
Final Test Mode Description				
Mode 2 TX Mode_1Mbps Channel 19				

Radiated emissions test - Below 1GHz				
Final Test Mode Description				
Mode 2 TX Mode_1Mbps Channel 19				

Radiated emissions test - Above 1GHz				
Final Test Mode Description				
Mode 1 TX Mode_1Mbps Channel 00/19/39				

Conducted test				
Final Test Mode Description				
Mode 1 TX Mode_1Mbps Channel 00/19/39				

Note:

- (1) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (2) For AC power line conducted emissions and radiated emissions below 1 GHz test, the 1Mbps Channel 19 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test: The polarization of Vertical and Horizontal are evaluated, the worst case is Horizontal and recorded.
- (4) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.

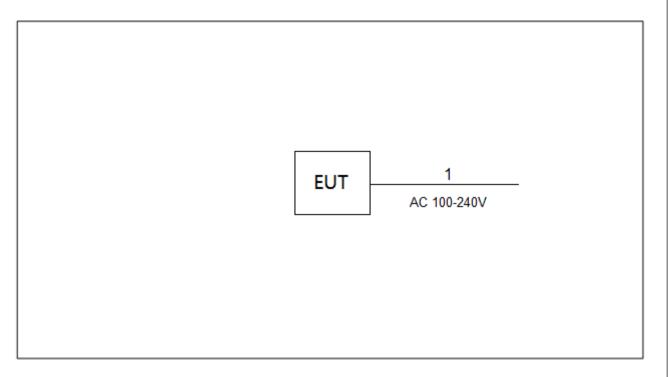
3.3 PARAMETERS OF TEST SOFTWARE

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test Software Version	RTLBTAPP V5.2.2.40			
Frequency (MHz)	2402 2440 2480			
1Mbps	0x2D 0x2D 0x2D			



3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	AC Cable	NO	NO	1.2m

3.6 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.
- 2) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. All cable losses are provided by the testing laboratory.



4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

Frequency of Emission (MHz)	Limit (d	BμV)
Frequency of Emission (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use) Margin Level = Measurement Value – Limit Value

4.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

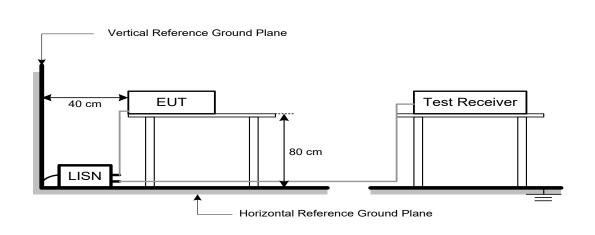
Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.3 DEVIATION FROM TEST STANDARD

No deviation.



4.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of [Note]. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150 kHz to 30 MHz.



5. RADIATED EMISSIONS

5.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Band edge/ Harmonic at 3m (dBµV/m)		Harmonic at 1m (dBµV/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 4)	63.5 (Note 4)

Note:

(1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.

-

(2) The tighter limit applies at the band edges.

 (3) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

1

(4)

$$FS_{\text{limit}} = FS_{\text{max}} - 20\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

 $20\log (d_{limit}/d_{measure})=20\log (3/1)=9.5 \text{ dB}.$



5.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m or 1m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	1 MHz / 3 MHz for PK value
(Emission in restricted band)	1 MHz / 1/T Hz for AVG value

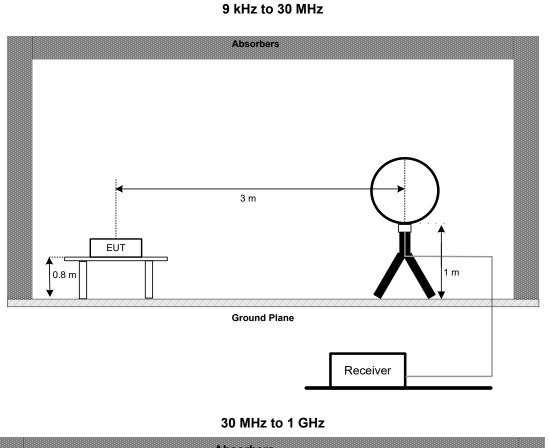
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

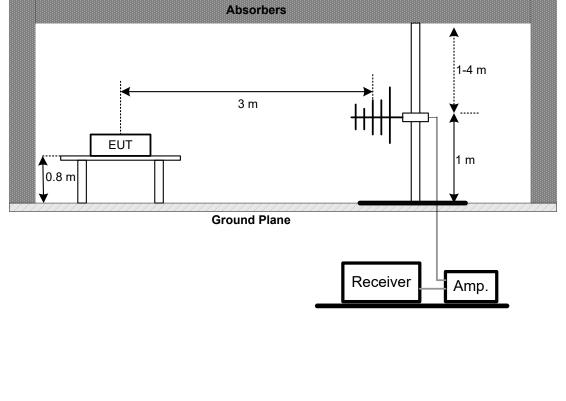


5.3 DEVIATION FROM TEST STANDARD

No deviation.

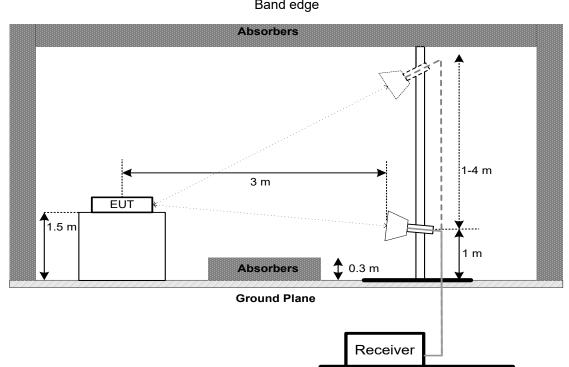
5.4 TEST SETUP



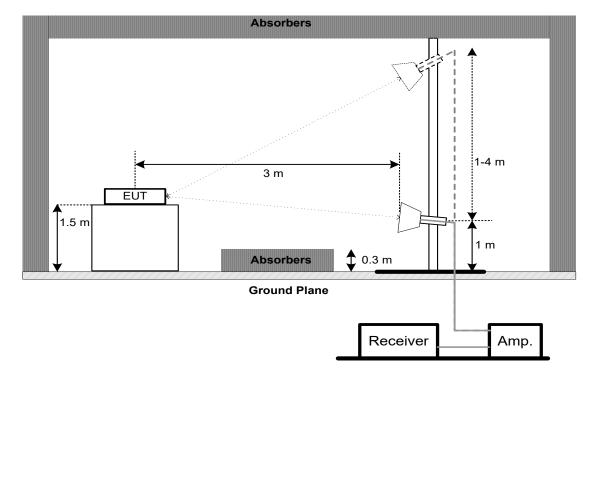




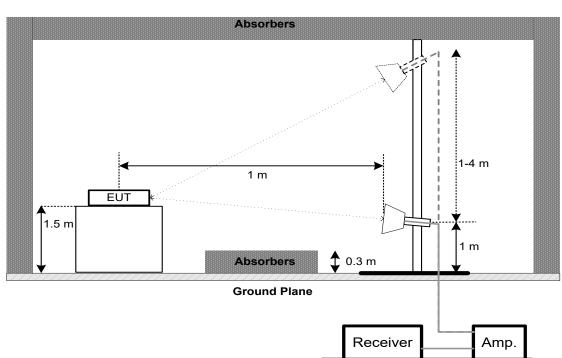




Harmonic(1 GHz to 18 GHz)



Harmonic(18 GHz to 26.5 GHz)



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT - 9 kHz TO 30 MHz

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

5.7 TEST RESULT - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

5.8 TEST RESULT - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.



6. BANDWIDTH

6.1 LIMIT

Section	Test Item	Limit		
	6 dB Bandwidth	>= 500 kHz		
FCC 15.247(a)(2)	99% Emission Bandwidth	-		

6.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Spectrum Parameters	Setting	
Span Frequency	> Measurement Bandwidth	
RBW	100 kHz	
VBW	300 kHz	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

For 99% Emission Bandwidth:

Spectrum Parameters	Setting	
Span Frequency	Between 1.5 times and 5.0 times the OBW	
RBW	30 kHz	
VBW	100 kHz	
Detector	Peak	
Trace Max Hold		
Sweep Time	Auto	

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX E.



7. MAXIMUM OUTPUT POWER

7.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 watt or 30.00 dBm

7.2 TEST PROCEDURE

a. The maximum conducted output power was performed in accordance with method 11.9.2.3.2 of ANSI C63.10-2013.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX F.



8. CONDUCTED SPURIOUS EMISSION

8.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is 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 Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

For Reference Level:

Spectrum Parameters	Setting			
Span Frequency	\geq 1.5 times the bandwidth			
RBW	100 kHz			
VBW	300 kHz			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			

For Emission Level:

Spectrum Parameters	Setting			
Start Frequency	30 MHz			
Stop Frequency	26.5 GHz			
RBW	100 kHz			
VBW	300 kHz			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX G.



9. POWER SPECTRAL DENSITY

9.1 LIMIT

Section	Test Item	Limit	
FCC 15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)	

9.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting			
Span Frequency	1.5 times the DTS bandwidth			
RBW	3 kHz			
VBW	10 kHz			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Please refer to the APPENDIX H.



10. MEASUREMENT INSTRUMENTS LIST

	AC Power Line Conducted Emissions								
Item	Kind of Equipment	d of Equipment Manufacturer Type No. Serial No.		Serial No.	Calibrated until				
1	EMI Test Receiver	R&S	103027	Jun. 16, 2024					
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 22, 2024				
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A				
4	Cable	N/A	SFT205-NMNM-9M-001 9M		Nov. 27, 2024				
5	643 Shield Room	ETS	6*4*3	N/A	N/A				

	Radiated Emissions - 9 kHz to 30 MHz								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60 B-034	Apr. 01, 2024				
2	MXE EMI Receiver Keysight N9038A MY56400091				Dec. 22, 2024				
3	Cable	N/A	RW2350-3.8A-NMBM-1. 5M	N/A	Jun. 10, 2024				
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A				
5	966 Chamber room	ETS	9*6*6	N/A	Jul. 11, 2024				

	Radiated Emissions - 30 MHz to 1 GHz							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	1462	Dec. 13, 2024			
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 13, 2024			
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	Nov. 17, 2024			
4	Cable	RegalWay LMR400-NMNM-12.5m		N/A	Jul. 04, 2024			
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jul. 04, 2024			
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	Jul. 04, 2024			
7	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024			
8	Positioning Controller	ller MF MF-7802 N		N/A	N/A			
9	Measurement Software	Harad I		N/A	N/A			
10	966 Chamber room	СМ	9*6*6	N/A	May 17, 2024			



			Emissions - Above 1 GH					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024			
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Nov. 17, 2024			
3	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Jun. 16, 2024			
4	Double Ridged Guide Antenna	ETS	3115	75789	May 31, 2024			
5	Cable RegalWay RWLP50		RWLP50-4.0A-SMSM-1 2.5M	N/A	Feb. 19, 2025			
6	Cable	RegalWay	RWLP50-4.0A-NMRAS M-2.5M	N/A	Aug. 08, 2024			
7	Cable	RegalWay	RWLP50-4.0A-NMRAS MRA-0.8M	N/A	Aug. 08, 2024			
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 06, 2024			
9	Cable	RegalWay	RWLP50-2.6A-2.92M2.9 2M-1.1M	N/A	Jul. 26, 2024			
10	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 26, 2024			
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 20, 2024			
12	966 Chamber room	CM	9*6*6	N/A	May 17, 2024			
13	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A			
14	Filter	STI	STI15-9912	N/A	Jun. 16, 2024			
15	Positioning Controller	MF	MF-7802	N/A	N/A			
16	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			

	Maximum Output Power								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Power Sensor	Agilent	U2021XA	MY53340001	Jun. 17, 2024				
2	Cable	Woke	20210802 001	RWP50-402-SM SM-1M	N/A				
3	CE TestSystem	BTL	CE TestSoftware	N/A	N/A				
4	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A				
5	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A				

	Bandwidth & Power Spectral Density & Conducted Spurious Emission							
Item	n Kind of Equipment Manufacturer Type No. Serial No. Calibrated u							
1	Spectrum Analyzer	R&S	FSP40	100185	Jun. 16, 2024			
2	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A			
3	DC Block	N/A	N/A	N/A	N/A			
4	Measurement Software	BTL	BTL Conducted Test	N/A	N/A			

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



11. EUT TEST PHOTO



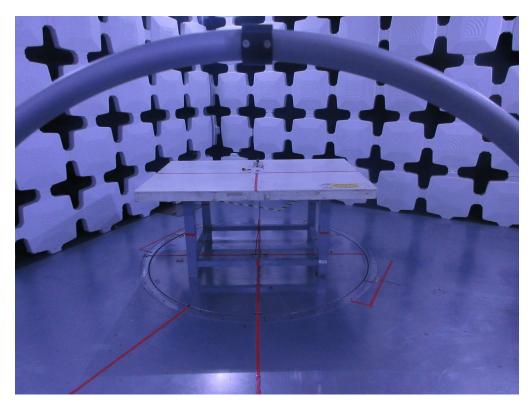
AC Power Line Conducted Emissions Test Photos

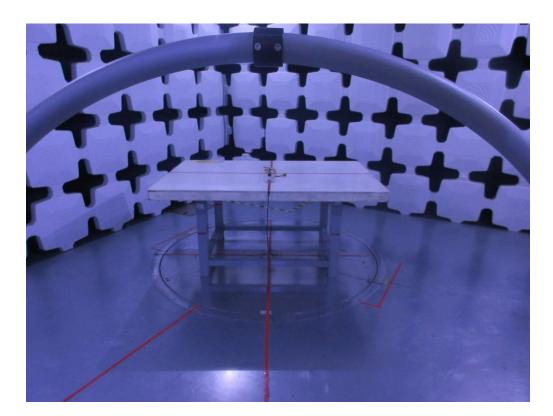




Radiated Emissions Test Photos

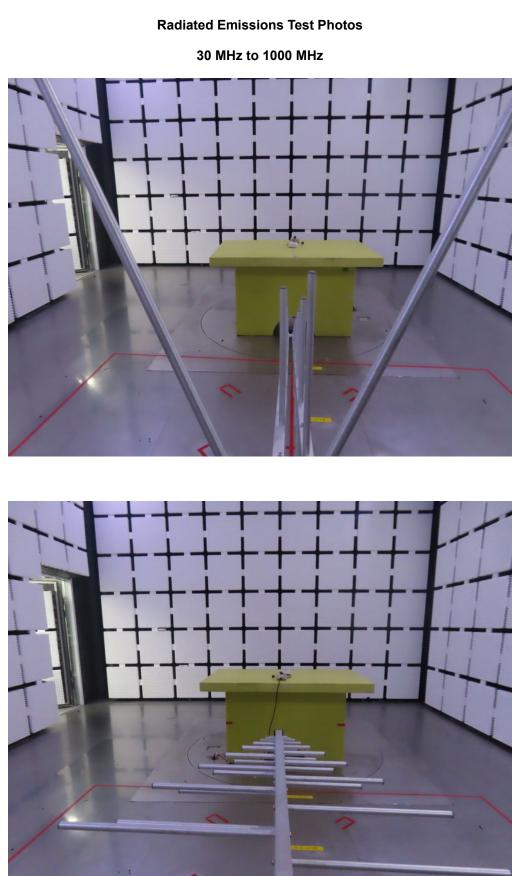
9 kHz to 30 MHz



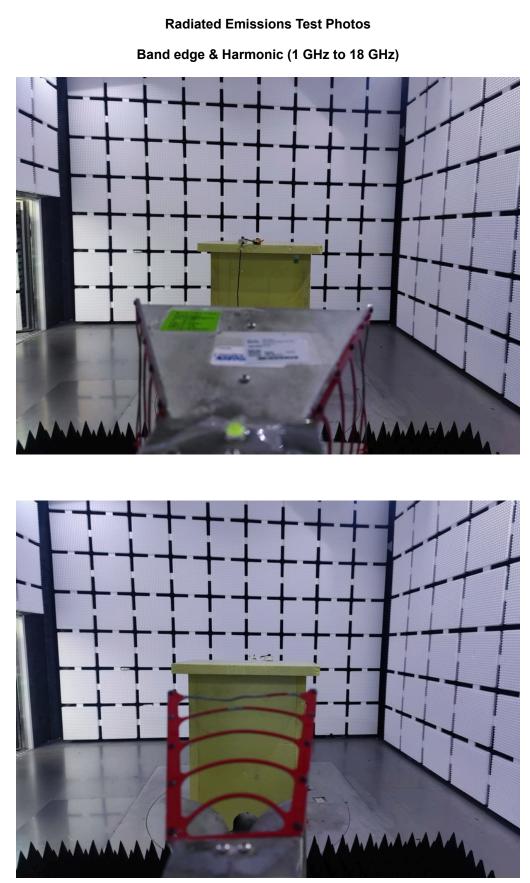






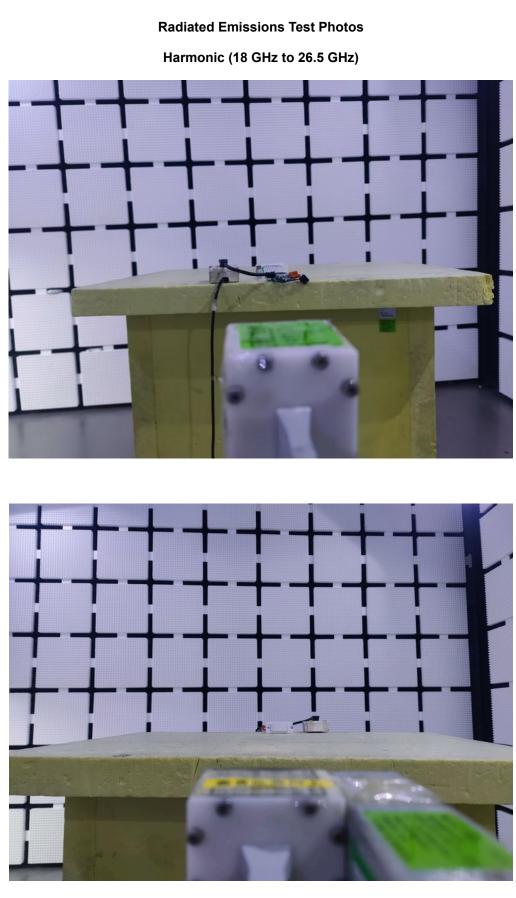






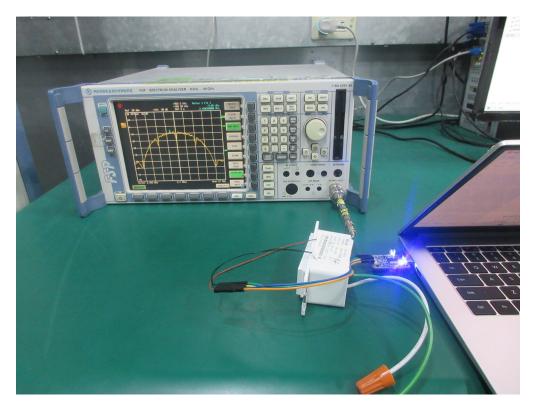








Conducted Test Photos

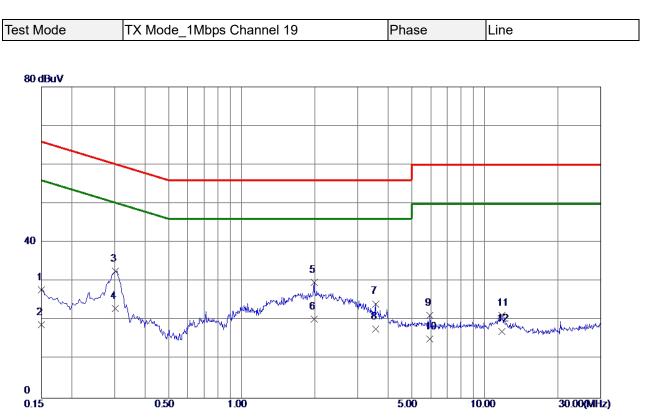






APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS



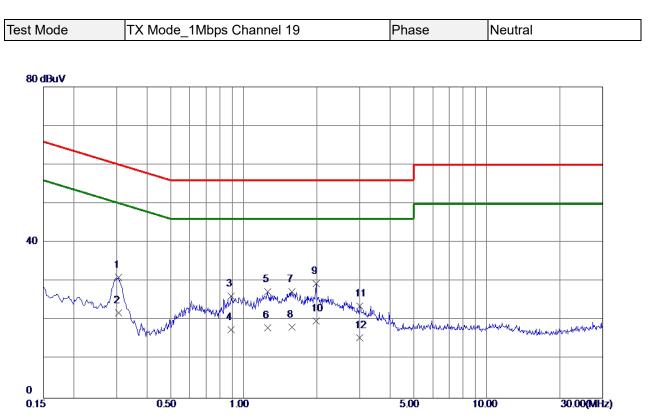


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	18.17	9.73	27.90	66.00	-38.10	QP	
2	0.1500	9.20	9.73	18. 93	56.00	-37.07	AVG	
3	0. 3030	22.94	9.77	32.71	60.16	-27.45	QP	
4	0. 3030	13.30	9.77	23. 0 7	50.16	-27.09	AVG	
5	1.9838	19.91	9.86	29.77	56.00	-26. 23	QP	
6 *	1.9838	10.50	9.86	20.36	46.00	-25.64	AVG	
7	3. 5520	14.31	9.93	24.24	56.00	-31.76	QP	
8	3. 5520	7.80	9.93	17.73	46.00	-28.27	AVG	
9	5.9550	11.25	10.06	21.31	60.00	-38.69	QP	
10	5.9550	5.10	10.06	15.16	50.00	-34.84	AVG	
11	11. 7690	10.71	10. 50	21.21	60.00	-38.79	QP	
12	11. 7690	6. 70	10. 50	17.20	50.00	-32.80	AVG	

REMARKS:

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.





No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.3052	21.46	9.63	31.09	60.10	-29.01	QP	
2	0.3052	12.30	9.63	21.93	50.10	-28.17	AVG	
3	0.8902	16.64	9.67	26.31	56.00	-29.69	QP	
4	0.8902	7.90	9.67	17.57	46.00	-28.43	AVG	
5	1.2548	17.63	9.69	27.32	56.00	-28.68	QP	
6	1.2548	8. 40	9.69	18. 09	46.00	-27. 91	AVG	
7	1. 5809	17.65	9.70	27.35	56.00	-28. 65	QP	
8	1. 5809	8.60	9.70	18.30	46.00	-27.70	AVG	
9	1.9860	19.79	9.71	29.50	56.00	-26. 50	QP	
10 *	1.9860	10.20	9.71	19. 91	46.00	-26. 09	AVG	
11	3.0097	13.95	9.75	23.70	56.00	-32. 30	QP	
12	3.0097	5.70	9.75	15.45	46.00	- 30. 55	AVG	

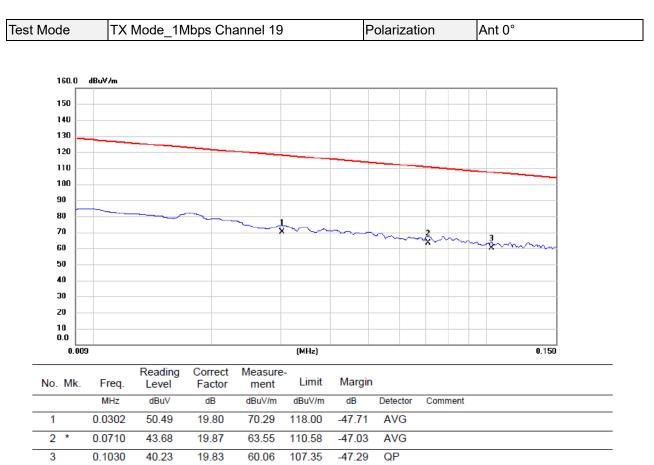
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ



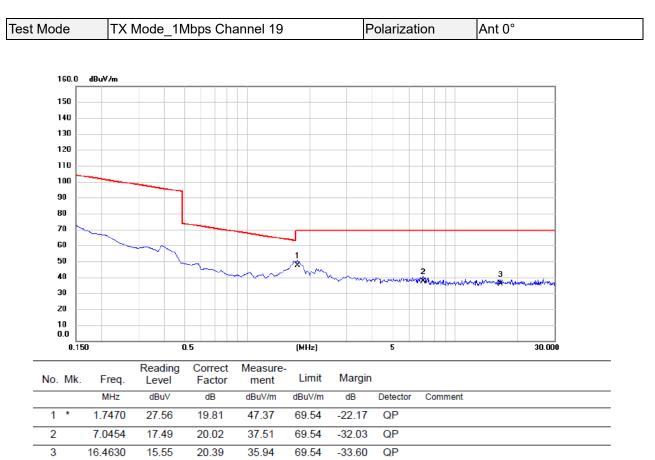


REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



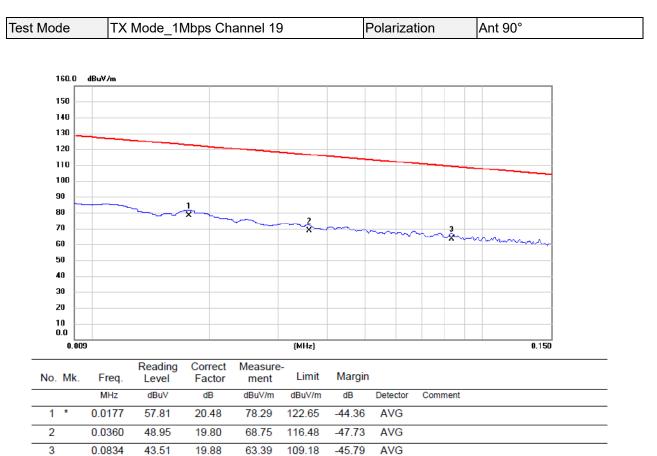




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



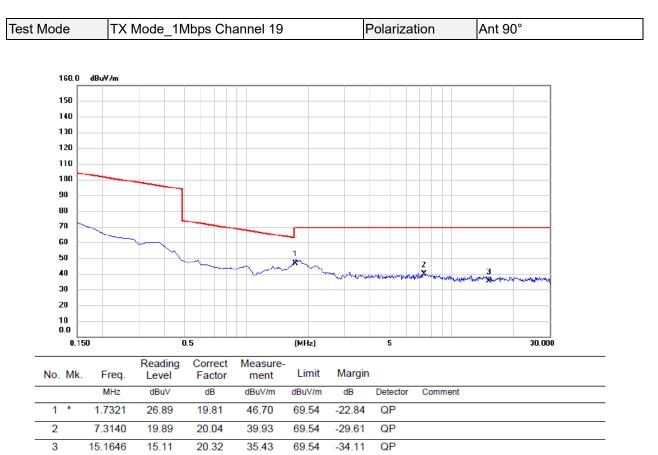




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





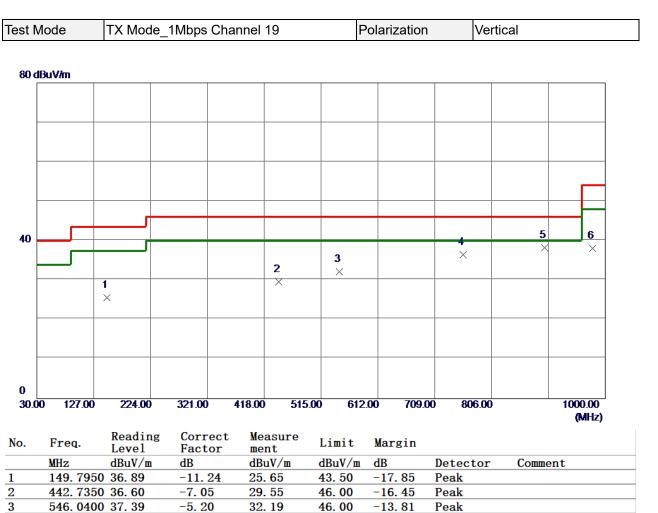


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ





46.00

46.00

54.00

-**9**. 51

-7.73

-15.97

36.49

38.27

38.03

Peak

Peak

Peak

REMARKS:

4

6

5 *

757. 5000 37. 75

896. 6950 38. 19

978. 1750 37. 44

(1) Measurement Value = Reading Level + Correct Factor.

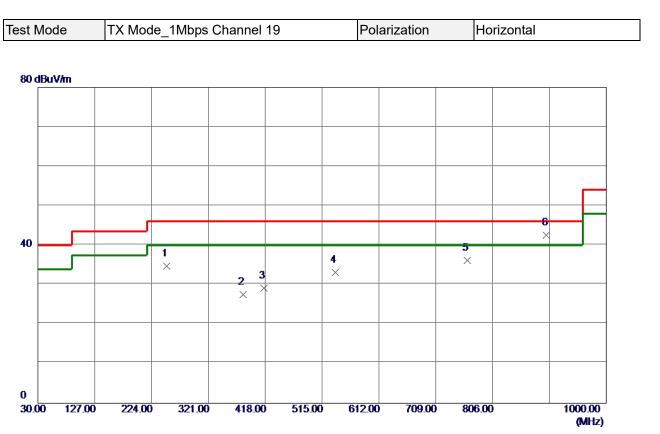
-1.26

0.08

0.59

(2) Margin Level = Measurement Value - Limit Value.





No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	250. 1900	47.13	-12.42	34.71	46.00	-11. 29	Peak	
2	380. 6550	36.23	-8.72	27.51	46.00	-18.49	Peak	
3	415. 5750	36.80	-7.74	29.06	46.00	-16. 94	Peak	
4	537.7950	38. 51	-5.37	33.14	46.00	-12.86	Peak	
5	762.8350	37.37	-1.28	36.09	46.00	-9.91	Peak	
6 *	898.1500	42.48	0.10	42.58	46.00	-3.42	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ



		-							
Test N	/lode	TX 2402 M	Hz _CH	100_1M	bps	P	olarization	Horizor	ntal
120	dBuV/m								
					1				
						*			
						<u>Ц</u>			
						\square			
70									
10									
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			1						
			×						
			2		hand				
20									
	7.00 2382.00	0 2387.00	2392.00	2397.	00 2402.0	00 240	07.00 2412	.00 2417.00	2427.00
									(MHz)
No.	Freq.	Reading Level	Corr Fact		leasure ment	Limit	Margin		
	MHz	dBuV/m	dB		lBuV/m	dBuV/1	m dB	Detector	Comment
1		00 37.14	6.00		3. 14	74.00		Peak	
2 3		00 28.44 50 92.97	6.00		84.44 98.97	54.00		AVG Peak	No Limit
<u>3</u> 4 *		50 92.97 50 91.56	6.00 6.00		97. 56	74.00 54.00		AVG	No Limit No Limit
	2101. 51	00 01.00	0.00			51.00	10.00	1110	NO LIMIC

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



-20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 <th></th>	
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MHz dBuV/m dB dBuV/m dB UV/m dB UV/m dB Detector Comment 7202.2800 35.69 5.90 41.59 74.00 -32.41 Peak	
o. Freq. Reading Correct Measure Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment 7202.2800 35.69 5.90 41.59 74.00 -32.41 Peak	000.00
MHz BuV/m dB dBuV/m dBuV/m dB Detector Comment 7202. 2800 35. 69 5. 90 41. 59 74. 00 -32. 41 Peak	(MHz)
MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7202. 2800 35. 69 5. 90 41. 59 74. 00 -32. 41 Peak	
7202. 2800 35. 69 5. 90 41. 59 74. 00 -32. 41 Peak	
* 7210. 4700 25. 19 5. 91 31. 10 54. 00 -22. 90 AVG	



st Mod	е	TX 244	0 MHz _	_CH19_	_1Mb	ps	Pol	arization	l	Horiz	ontal	
80 dBuV	//m											
					1 ×							
					2							
•o					X							
0 000 00	2700.00	4400.0	0 610	0.00 7	7800.0	0 9500.	00 1120	0.00 129	00.00	14600.0	0	18000.00
000.00	2100.00					0 0000				1000.0	•	(MHz)
F	req.	Readi Level	ng C F	orrect actor		easure ent	Limit	Margir	ı			
	Hz	dBuV/	m d	В	d	BuV/m	dBuV/m	dB		etector	С	omment
		0 35.76 0 25.41		. 94 . 94		1.70 1.35	74.00 54.00	-32. 30		eak /G		



Fest Mode	TX 2480 M	Hz _CH39_	1Mbps		Pola	arization	Horizon	ıtal
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70				\vdash				
					3			
					×			
					4			
20								
2455.00 2460.0	0 2465.00	2470.00 2	475.00 248	0.00	2485.	00 2490.0	00 2495.00	2505.00 (MHz)
No. Freq.	Reading Level	Correct Factor	Measure ment		mit	Margin		
MHz	dBuV/m 750 88.67	dB	dBuV/m		SuV/m	dB	Detector	Comment No Limit
	250 88.67 250 87.37	6.00 6.00	94. 67 93. 37		. 00 . 00	20.67 39.37	Peak AVG	No Limit No Limit
	000 00 55	0.00	45 55		0.0	00.45	D 1	

45.55

34.93

6.00

6.00

-28.45

-19.07

Peak

AVG

74.00

54.00

REMARKS:

3

4

2483. 5000 39. 55

2483. 5000 28. 93

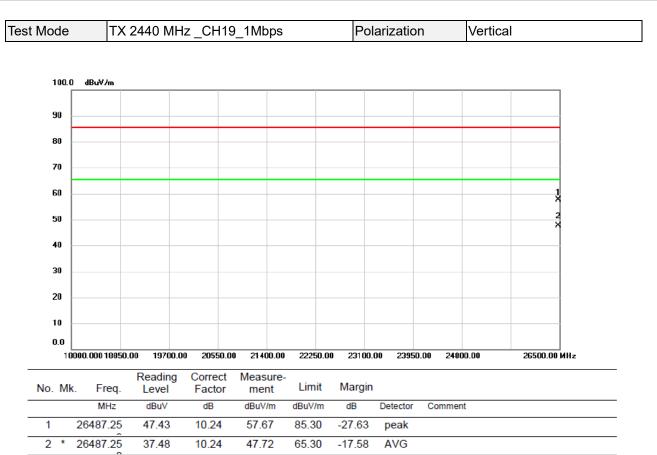
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



st Mo	nde	TX 2480 M	IHz_CH39	1Mbp	<u> </u>	Pol	arizat	ion	Н	orizon	al	
	540	17(2400 1					anzat					
a	uV/m											
	uvm											
-												
				1								
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ю —				2 ×								
' [
	00 2700.00	4400.00	6100.00	7800.00	9500.00	11200	0.00	12900.00	146	00.00		18000.00
1000.		4100.00	0100.00	1000.00	5500.00	1120	0.00	12300.00	140	00.00		(MHz)
	Freq.	Reading Level	Correct Factor	Mea mer	asure	Limit	Mar	gin				
	MHz	dBuV/m	dB	dBu	ıV∕m o	lBuV/m)etec	tor	Сош	ent
	7458.350 7489.900		5.96 5.97	42. 31.		74.00 54.00	-31. -22.		Peak AVG			



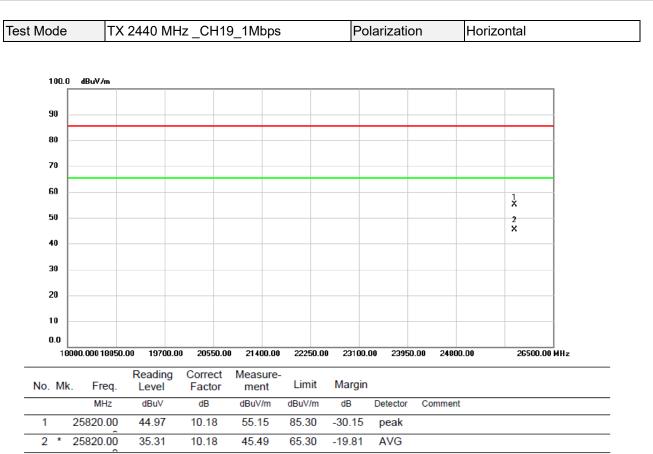




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.







- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



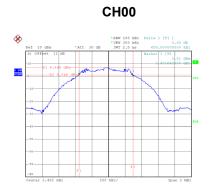


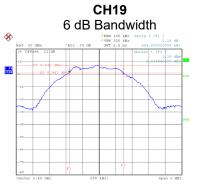
APPENDIX E - BANDWIDTH



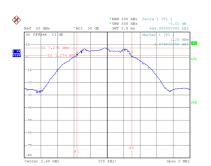


Test Mode	TX Mode _1	Mbps			
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	0.656	1.044	0.5	Pass
19	2440	0.654	1.028	0.5	Pass
39	2480	0.665	1.020	0.5	Pass

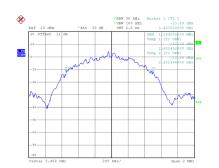




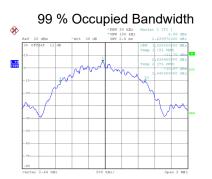
CH39



Date: 15.MAR.2024 17:02:41

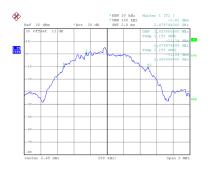


Date: 15.MAR.2024 17:03:49



Date: 15.MAR.2024 17:05:09

Date: 15.MAR.2024 17:05:16



Date: 15.MAR.2024 17:01:56

Date: 15.MAR.2024 17:03:55



APPENDIX F - MAXIMUM OUTPUT POWER



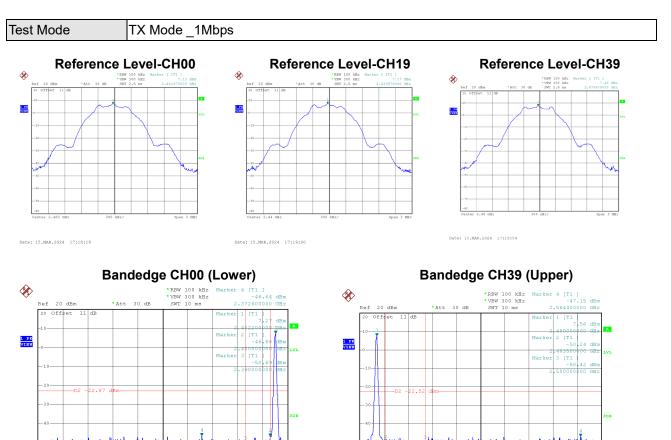
Te	est Mode	TX Mode _1Mbps	5			
	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
	2402	7.18	0.0052	30.00	1.0000	Pass
	2440	7.32	0.0054	30.00	1.0000	Pass
	2480	7.03	0.0050	30.00	1.0000	Pass

Note: Output power = Measure result + Cable loss



APPENDIX G - CONDUCTED SPURIOUS EMISSION





Date: 15.MAR.2024 17:51:00

GE:

10 MHz

2.40

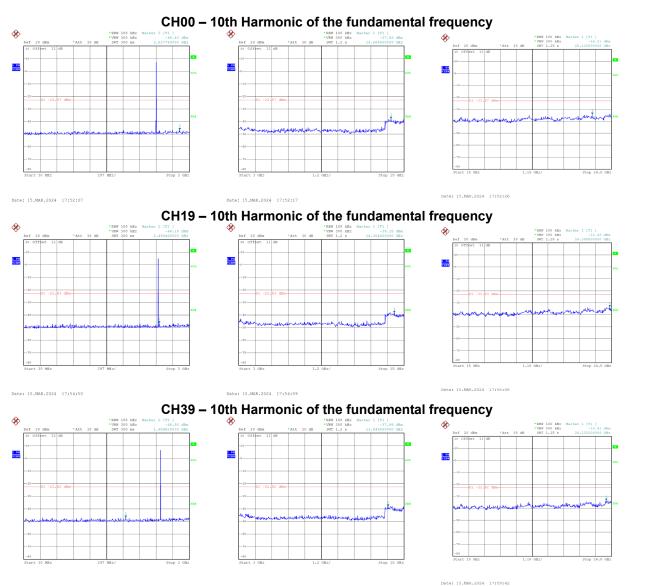
-80 Start 2.30

Date: 15.MAR.2024 17:58:32

Start 2.473 GHz

10 MHz/

Stop 2.573 GHz



Date: 15.MAR.2024 17:59:24

3

Date: 15.MAR.2024 17:59:33

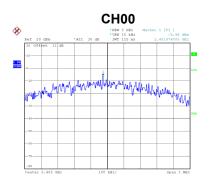


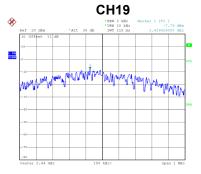
APPENDIX H - POWER SPECTRAL DENSITY



Test Mode TX Mode _1Mbps

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	-5.96	8.00	Pass
19	2440	-7.79	8.00	Pass
39	2480	-7.91	8.00	Pass







Date: 15.MAR.2024 17:36:23

Date: 15.MAR.2024 17:34:49

Date: 15.MAR.2024 17:35:43

End of Test Report