



# FCC Radio Test Report

FCC ID: TE7P100

This report concerns: Original Grant

**Project No.** : 1906C018

**Equipment**: Mini Smart Wi-Fi Socket

Test Model : Tapo P100

Series Model : N/A

**Applicant**: TP-Link Technologies Co., Ltd.

Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central

Science and Technology Park, Shennan Rd,

Nanshan, Shenzhen, China

Date of Receipt : Jun. 12, 2019

**Date of Test** : Jun. 12, 2019 ~ Aug. 15, 2019

Issued Date : Aug. 22, 2019 Tested by : BTL Inc.

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Certificate #5123.02

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

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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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# **REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Aug. 22, 2019

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#### 1. GENERAL SUMMARY

Equipment : Mini Smart Wi-Fi Socket

Brand Name: Tapo

Test Model : Tapo P100

Series Model: N/A

Applicant : TP-Link Technologies Co., Ltd. Manufacturer : TP-Link Technologies Co., Ltd.

Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology

Park, Shennan Rd, Nanshan, Shenzhen, China

Date of Test : Jun. 12, 2019 ~ Aug. 15, 2019

Test Sample: Engineering Sample No.: DG19060646 for conducted, DG19060647 for

radiated.

Standard(s): FCC Part15, Subpart C (15.247)

ANSI C63.10-2013

FCC KDB 558074 D01 DTS Meas Guidance v05r02

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-3-1906C018) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Test results included in this report are only for the Bluetooth LE part.

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# 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart C (15.247)				
Standard(s) Section	Test Item	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 Average 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.

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#### 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 Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

#### 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% 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	U, (dB)
DG-C02	CISPR	150 kHz ~ 30 MHz	2.32

#### B. Radiated emissions Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)					
		9kHz ~ 30MHz	V	3.79					
		9kHz ~ 30MHz	Н	3.57					
		30MHz ~ 200MHz	V	4.88					
	CISPR	30MHz ~ 200MHz	Н	4.14					
DG-CB03		CIEDD	CICDD	CIEDD	CICDD	CISDD	200MHz ~ 1,000MHz	V	4.62
DG-CB03		200MHz ~ 1,000MHz	Н	4.80					
		1GHz ~ 6GHz	-	4.58					
			6GHz ~ 18GHz	-	5.18				
		18GHz ~ 26.5GHz	-	3.80					
		26.5GHz ~ 40GHz	-	4.30					

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





# 3. GENERAL INFORMATION

# 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Mini Smart Wi-Fi Socket
Brand Name	Таро
Test Model	Tapo P100
Series Model	N/A
Model Difference(s)	N/A
Power Source	AC Mains
Power Rating	AC 100-125V 50/60Hz 10A
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Technology	GFSK
Bit Rate of Transmitter	1Mbps
Max. Average Output Power	10.01 dBm (0.0100 W)

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:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	TP-LINK°	N/A	PIFA	N/A	2

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#### 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 <b>NOTE</b> (1)	
Mode 2	TX Mode Channel 00 _1Mbps	

Following mode(s) as (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 Channel 00 _1Mbps		

Radiated emissions test - Below 1GHz		
Final Test Mode Description		
Mode 2	TX Mode Channel 00 _1Mbps	

Radiated emissions test - Above 1GHz		
Final Test Mode Description		
Mode 1	TX Mode <b>NOTE</b> (1)	

Conducted test			
Final Test Mode Description			
Mode 1 TX Mode <b>NOTE</b> (1)			

# Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) For radiated emission above 1 GHz test, 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.

#### 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. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of BT LE

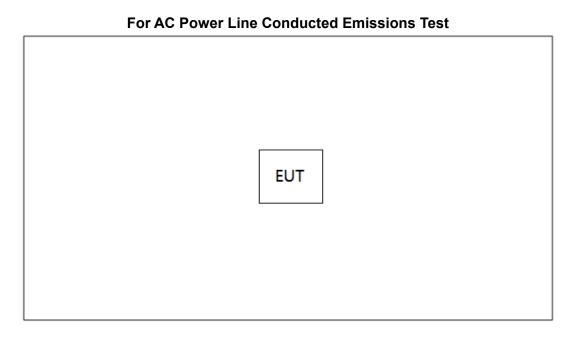
Test Software	RTLBTAPP		
Frequency (MHz)	2402 2440 2480		
Parameters	0X33	0X32	0X32

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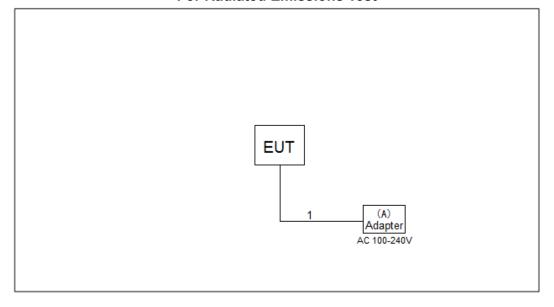




# 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



# **For Radiated Emissions Test**



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# 3.5 SUPPORT UNITS

# For AC Power Line Conducted Emissions Test

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

Item	Cable Type	Shielded Type	Ferrite Core	Length
-	-	-	-	-

# **For Radiated Emissions Test**

Item	Equipment	Brand	Model No.	Series No.
Α	Adapter	tp-link	T050060-2B1	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5m

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# 4. AC POWER LINE CONDUCTED EMISSIONS TEST

#### **4.1 LIMIT**

Fraguency of Emission (MHz)	Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 - 0.50	66 to 56*	56 to 46*	
0.50 - 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.

The following table is the setting of the receiver

The female in grade is the country of the feature.			
Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		

#### **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.

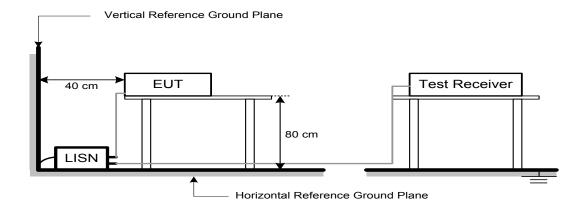
#### 4.3 DEVIATION FROM TEST STANDARD

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 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 53% Test Voltage: AC 120V/60Hz

#### 4.7 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.

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# **5. RADIATED EMISSION TEST**

#### **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)

Fraguency (MHz)	(dBuV/m at 3 m)	
Frequency (MHz)	Peak	Average
Above 1000	74	54

#### Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	RBW 1 MHz VBW 3 MHz peak detector for Pk value	
(Emission in restricted band)	RMS detector for AV value	

Receiver Parameter	Setting
Attenuation	Auto
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

#### **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 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 1 GHz)
- 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.
- a. 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.

#### 5.3 DEVIATION FROM TEST STANDARD

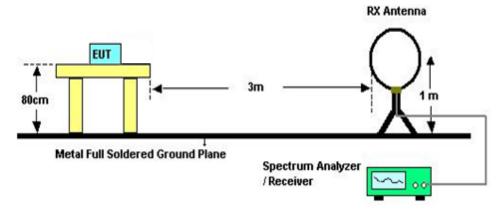
No deviation



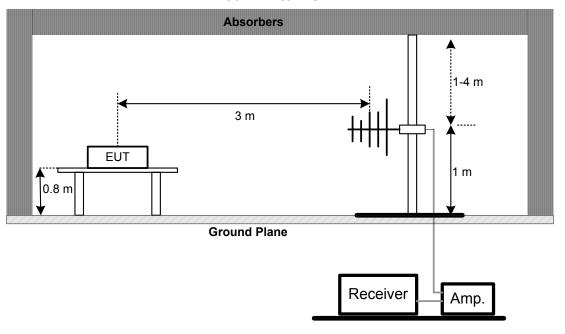


# **5.4 TEST SETUP**

# 9 kHz-30 MHz



# 30 MHz to 1 GHz



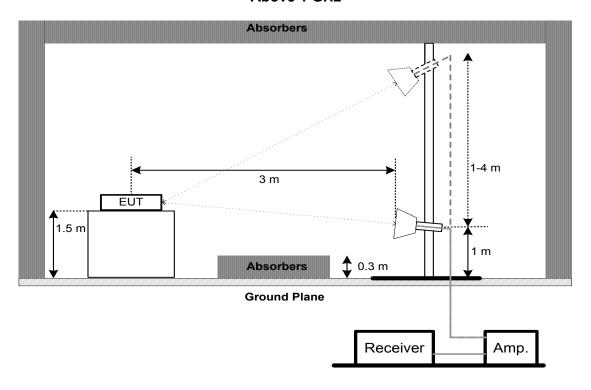
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#### Above 1 GHz



#### 5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### **5.6 EUT TEST CONDITIONS**

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

# 5.7 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.

# 5.8 TEST RESULT - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

#### 5.9 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.

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# 6. BANDWIDTH TEST

#### 6.1 LIMIT

FCC Part15, Subpart C (15.247)						
Section Test Item Limit						
15.247(a)(2)	Bandwidth	>= 500 kHz (6 dB 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. Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = 2.5 ms.

# **6.3 DEVIATION FROM STANDARD**

No deviation.

#### 6.4 TEST SETUP

EUT	SPECTRUM		
	ANALYZER		

#### **6.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

#### **6.6 EUT TEST CONDITIONS**

Temperature: 24.4°C Relative Humidity: 66.8% Test Voltage: AC 120V/60Hz

#### **6.7 TEST RESULTS**

Please refer to the APPENDIX E.





# 7. MAXIMUM AVERAGE OUTPUT POWER

#### **7.1 LIMIT**

FCC Part15, Subpart C (15.247)			
Section Test Item Limit			
15.247(b)(3)	Maximum Average Output Power	1 watt or 30 dBm	

# 7.2 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 maximum conducted output power was performed in accordance with method 11.9.2.2 of ANSI C63.10-2013.

# 7.3 DEVIATION FROM STANDARD

No deviation.

# 7.4 TEST SETUP

EUT	SPECTRUM	
	ANALYZER	

# 7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

#### 7.6 EUT TEST CONDITIONS

Temperature: 24.4°C Relative Humidity: 66.8% Test Voltage: AC 120V/60Hz

# 7.7 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 Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = 10 ms.

#### 8.3 DEVIATION FROM STANDARD

No deviation.

#### **8.4 TEST SETUP**

EUT		SPECTRUM	
		ANALYZER	

# 8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

#### **8.6 EUT TEST CONDITIONS**

Temperature: 24.4°C Relative Humidity: 66.8% Test Voltage: AC 120V/60Hz

#### 8.7 TEST RESULTS

Please refer to the APPENDIX G.





# 9. POWER SPECTRAL DENSITY TEST

#### **9.1 LIMIT**

FCC Part15, Subpart C (15.247)				
Section Test Item Limit				
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. Spectrum Setting: RBW=3 kHz, VBW=10 kHz, Sweep time = auto.

# 9.3 DEVIATION FROM STANDARD

No deviation.

# 9.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

# 9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

# 9.6 EUT TEST CONDITIONS

Temperature: 24.4°C Relative Humidity: 66.8% Test Voltage: AC 120V/60Hz

#### 9.7 TEST RESULTS

Please refer to the APPENDIX H.





# 10. MEASUREMENT INSTRUMENTS LIST

	AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 10, 2020	
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020	
3	50ohm Terminator	SHX	TF5-3	15041305	Mar. 10, 2020	
4	Artificial-Mains Network	Schwarzbeck	NSLK 8127	8127685	Mar. 10, 2020	
5	TRANSIENT LIMITER	EM	EM-7600	772	Mar. 10, 2020	
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
7	Cable	N/A	RG223	12m	Mar. 12, 2020	

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Jan. 15, 2020
2	Cable	N/A	RG 213/U	C-102	May 31, 2020
3	EMI Test Receiver	R&S	ESCI	100895	Mar. 10, 2020
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

	Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2020	
2*	Amplifier	HP	8447D	2944A09673	Aug. 11, 2021	
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020	
4	Cable	emci	LMR-400(30MHz- 1GHz)(8m+5m)	N/A	May 24, 2020	
5	Controller	CT	SC100	N/A	N/A	
6	Controller	MF	MF-7802	MF780208416	N/A	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

	Radiated Emissions - Above 1 GHz										
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until						
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 09, 2020						
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020						
3	Amplifier	Agilent	8449B	3008A02333	Mar. 10, 2020						
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 10, 2020						
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020						
6	Controller	CT	SC100	N/A	N/A						
7	Controller	MF	MF-7802	MF780208416	N/A						
8	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020						
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A						

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Bandwidth &  Maximum Average Output Power &  Power Spectral Density								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020			

Remark: "N/A" denotes no model name, serial no. or calibration specified.

"\*" calibration period of equipment list is three year.

Except \* item, all calibration period of equipment list is one year.

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# 11. EUT TEST PHOTO







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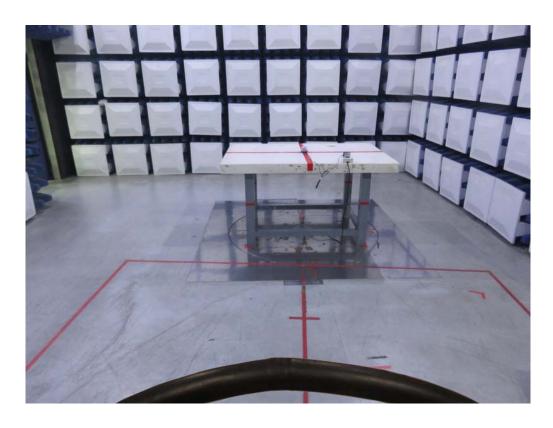
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# Radiated Emissions Test Photos 9 kHz to 30 MHz





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# Radiated Emissions Test Photos 30 MHz to 1000 MHz





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# Radiated Emissions Test Photos

# Above 1 GHz





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APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

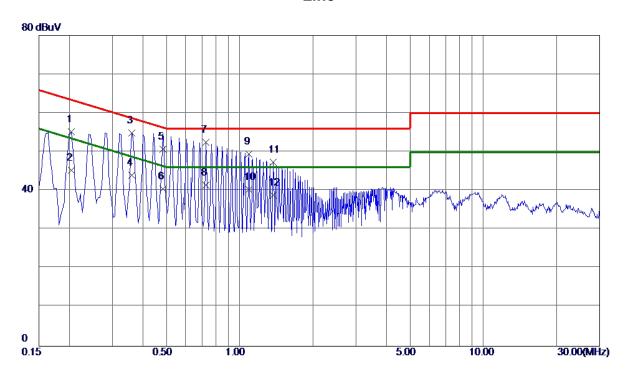
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Test Mode: TX Mode Channel 00 \_1Mbps

# Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 2040	45. 39	9.81	<b>55. 20</b>	63.45	-8. 25	Peak	
2	0.2040	35. 46	9.81	45. 27	53.45	-8. 18	AVG	
3	0.3613	45. 10	9.85	54.95	58. <b>70</b>	-3. 75	Peak	
4	0.3613	34. 18	9.85	44.03	48.70	-4.67	AVG	
5	0.4830	40.82	9.88	50.70	56. 29	-5. 59	QP	
6	0.4830	30. 56	9.88	40.44	46. 29	-5.85	AVG	
7 *	0.7260	42.55	9. 90	52. 45	56.00	-3. 55	Peak	
8	0.7260	31. 59	9. 90	41. 49	46.00	-4.51	AVG	
9	1.0904	39. 53	9. 93	49.46	56.00	<b>-6.54</b>	Peak	
10	1.0904	30.44	9. 93	40. 37	46.00	-5. 63	AVG	
11	1. 3740	37.43	9. 95	47. 38	56.00	-8. 62	Peak	
12	1. 3740	28. 94	9. 95	38. 89	46.00	-7. 11	AVG	

# **REMARKS**:

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

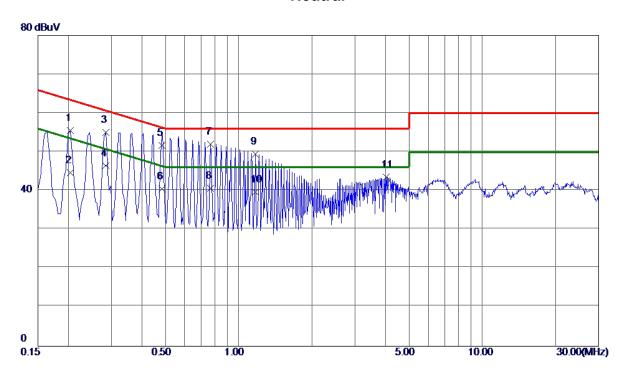
Report No.: BTL-FCCP-3-1906C018





Test Mode: TX Mode Channel 00 \_1Mbps

# Neutral



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 2040	45.64	9. 90	<b>55. 54</b>	63.45	-7. 91	Peak	
2	0.2040	34.77	9. 90	44.67	53.45	-8. 78	AVG	
3	0. 2850	45.03	9. 95	54.98	60.67	-5. 69	Peak	
4	0. 2850	36. 53	9. 95	46.48	50.67	-4. 19	AVG	
5	0.4830	41.60	10.03	51.63	56. 29	-4.66	QP	
6	0.4830	30. 50	10.03	40. 53	46. 29	-5. 76	AVG	
7 *	0.7664	41.95	10.08	<b>52.03</b>	56.00	-3. 97	Peak	
8	0.7664	30. 56	10.08	40.64	46.00	-5. 36	AVG	
9	1. 1713	39. 33	10. 13	49. 46	56.00	-6. 54	Peak	
10	1. 1713	29. 57	10. 13	39.70	46.00	-6. 30	AVG	
11	4.0380	33. 27	10. 32	43. 59	56.00	-12.41	Peak	

# **REMARKS**:

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

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APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

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0.150

Test Mode: TX Mode Channel 00 \_1Mbps

# Ant 0° 160.0 dBuV/m 150 140 130 120 110 100 90 80 70 60 40 30 20

No. Mk.	Freq.			Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0147	35.70	15.41	51.11	124.26	-73.15	AVG	
2	0.0305	28.60	13.86	42.46	117.92	-75.46	AVG	
3 *	0.0885	41.40	13.54	54.94	108.67	-53.73	AVG	

(MHz)

#### **REMARKS**:

10 0.0

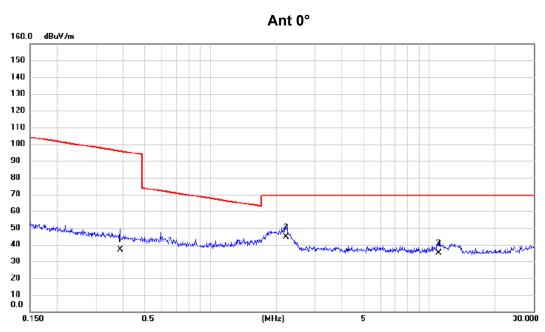
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

Report No.: BTL-FCCP-3-1906C018





Test Mode: TX Mode Channel 00 \_1Mbps



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.3871	23.50	13.33	36.83	95.85	-59.02	AVG	
2 *	2.2132	32.80	11.69	44.49	69.54	-25.05	QP	
3	11.0211	23.40	11.62	35.02	69.54	-34.52	QP	

# **REMARKS**:

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

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0.150

Test Mode: TX Mode Channel 00 \_ \_1Mbps

# Ant 90° 160.0 dBuV/m 150 140 130 120 110 100 90 80 70 60 50 40 30 20

No. Mk.	Freq.			Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0142	35.80	15.56	51.36	124.56	-73.20	AVG	
2 *	0.0262	32.30	13.84	46.14	119.24	-73.10	AVG	
3	0.0472	23.40	13.92	37.32	114.13	-76.81	AVG	

(MHz)

# **REMARKS**:

0.0 0.009

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

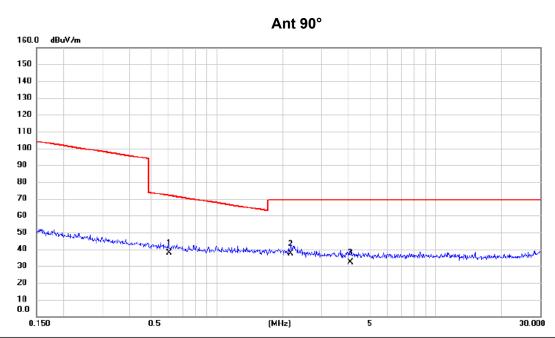
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Test Mode: TX Mode Channel 00 \_1Mbps



No. Mk.	Freq.			Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.6043	24.80	12.86	37.66	71.98	-34.32	QP	
2 *	2.1783	25.60	11.71	37.31	69.54	-32.23	QP	
3	4.0704	21.30	10.94	32.24	69.54	-37.30	QP	

# **REMARKS**:

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

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APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

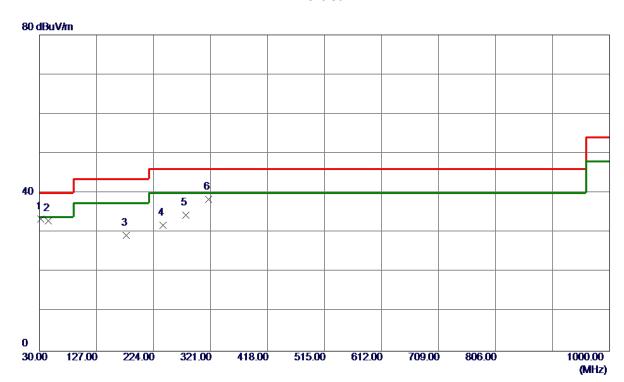
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Test Mode: TX Mode Channel 00 \_1Mbps

# **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	32. 4250	48. 29	-14.86	33. 43	40.00	-6. 57	Peak	
2	45. 0350	47.43	-14.45	32. 98	40.00	<b>-7.02</b>	Peak	
3	177. 4400	42. 22	-12. 96	29. 26	43.50	-14.24	Peak	
4	240. 4900	45.88	-13. 99	31.89	46.00	-14.11	Peak	
5	279. 2900	47.05	-12.64	34.41	46.00	-11. 59	Peak	
6	318. 0900	49. 58	-11. 19	38. 39	46.00	-7.61	Peak	

# **REMARKS**:

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

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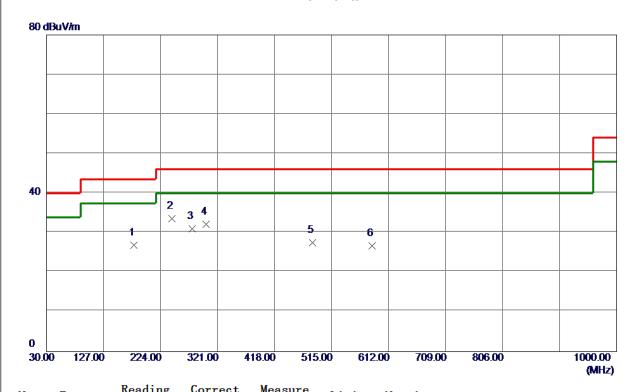
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Test Mode: TX Mode Channel 00 \_1Mbps

# Horizontal



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	178. 4100	39.85	-13.03	26. 82	43.50	-16. 68	Peak	
2 *	242. 9150	47.51	-13. 92	33. 59	46.00	-12.41	Peak	
3	277.8350	43.82	-12.71	31. 11	46.00	-14.89	Peak	
4	302. 0850	43. 58	-11. 45	32. 13	46.00	-13. 87	Peak	
5	482. 5050	35. 29	-7.82	27.47	46.00	-18. 53	Peak	
6	583.8700	32. 96	-6. 21	26.75	46.00	<b>-19. 25</b>	Peak	

# **REMARKS**:

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

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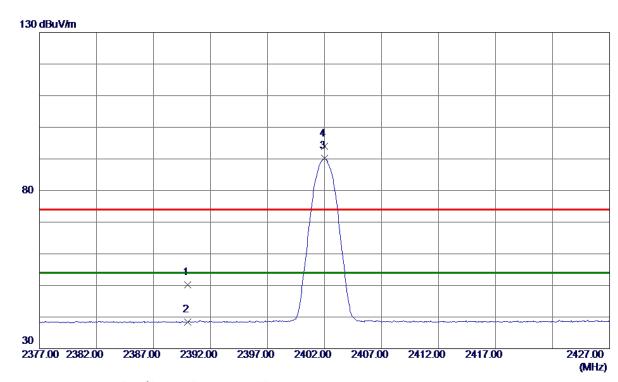
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

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# Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	42.01	8. 11	50. 12	74.00	-23.88	Peak	
2	2390.0000	30. 31	8. 11	38. 42	54.00	-15. 58	AVG	
3 *	2402.0000	81. 97	8. 14	90. 11	54.00	36. 11	AVG	No Limit
4	2402.0250	85. 85	8. 14	93. 99	74.00	19.99	Peak	No Limit

#### **REMARKS**:

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

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# Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4803.6580	38. 50	4.64	43. 14	74.00	-30.86	Peak	
2 *	4804.0350	28.84	4.65	33. 49	54.00	-20. 51	AVG	

## **REMARKS**:

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

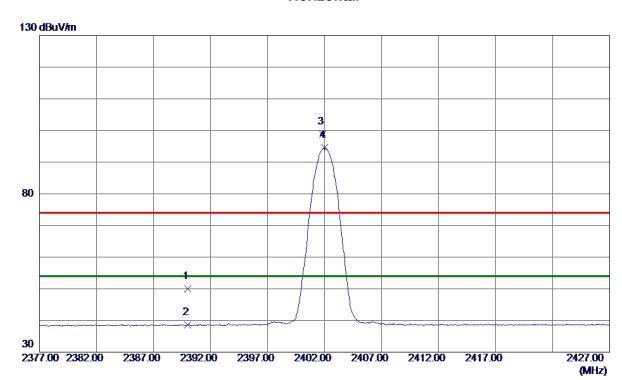
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#### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	41.82	8. 11	49.93	74.00	-24.07	Peak	
2	2390.0000	30.42	8. 11	38. 53	54.00	-15.47	AVG	
3	2401.8250	90.61	8. 14	98. 75	74.00	24.75	Peak	No Limit
4 *	2401.9750	86. 41	8. 14	94. 55	54.00	40. 55	AVG	No Limit
3	2390. 0000 2401. 8250	30. 42 90. 61	8. 11 8. 14	38. 53 98. 75	54. 00 74. 00	-15. 47 24. 75	AVG Peak	

## **REMARKS**:

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

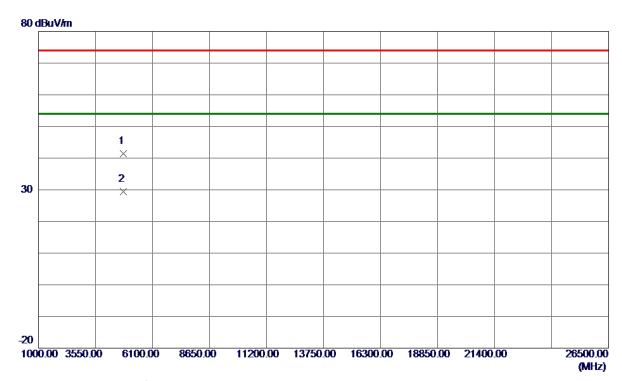
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Test Mode : TX 2402 MHz \_CH00\_1Mbps

#### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4802. 1980	36. 73	4.64	41.37	74.00	-32.63	Peak	
2 *	4804. 2400	24.78	4.65	29.43	54.00	-24.57	AVG	

## **REMARKS**:

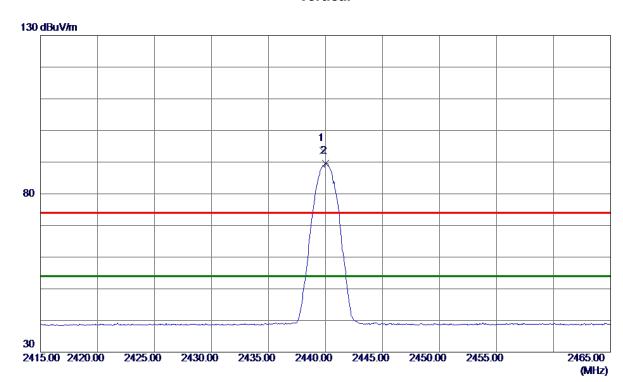
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

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# Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439.8000	85. 29	8. 25	93. 54	74.00	19. 54	Peak	No Limit
2 *	2440.0000	81.40	8. 25	89. 65	54.00	35. 65	AVG	No Limit

#### **REMARKS**:

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

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# Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4879. 4030	39. 35	5. 02	44. 37	74.00	-29.63	Peak	
2 *	4880. 0170	27.94	5. 02	32. 96	54.00	-21. 04	AVG	

## **REMARKS**:

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

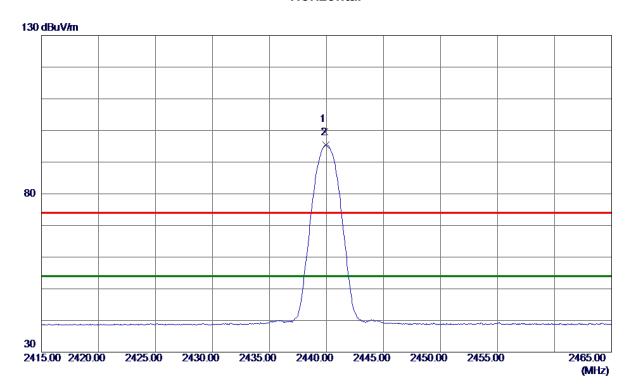
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# Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439.8250	91.31	8. 25	99. 56	74.00	25. 56	Peak	
2 *	2439.9500	87. 19	8. 25	95. 44	54.00	41.44	AVG	

## **REMARKS**:

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

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#### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4879. 9880	25. 35	5. 02	30. 37	54.00	-23.63	AVG	
2	4880.6669	35. 63	5. 02	40.65	74.00	-33. 35	Peak	

## **REMARKS**:

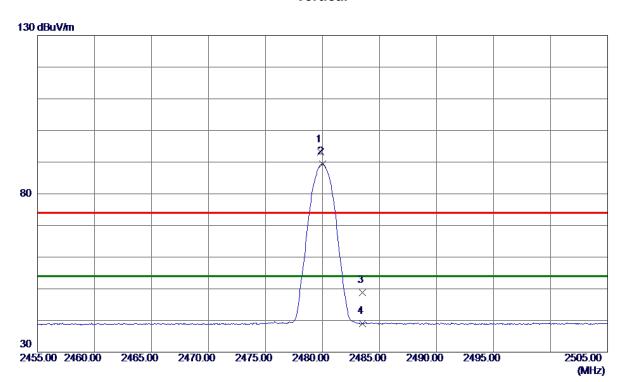
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

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# Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479.8250	84.89	8. 37	93. 26	74.00	19. 26	Peak	No Limit
2 *	2479.9750	81. 05	8. 37	89. 42	54.00	35. 42	AVG	No Limit
3	2483. 5000	40.47	8. 38	48.85	74.00	-25. 15	Peak	
4	2483. 5000	30. 65	8. 38	39. 03	54.00	-14.97	AVG	

#### **REMARKS**:

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

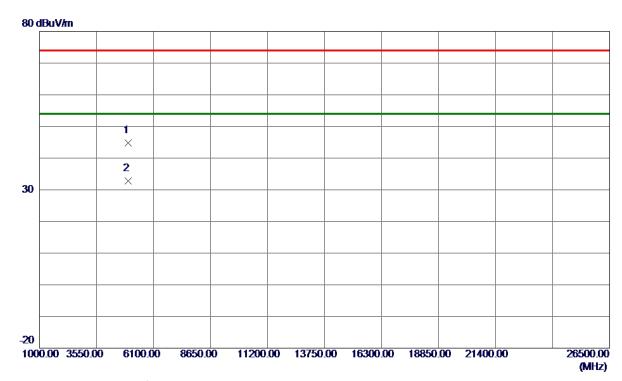
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# Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4959. 5550	39. 39	5.41	44.80	74.00	-29. 20	Peak	
2 *	4959. 9220	27.47	5.41	32.88	54.00	-21. 12	AVG	

## **REMARKS**:

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

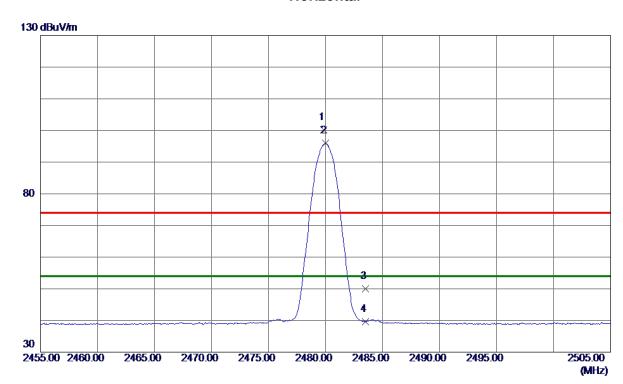
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#### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479.8500	91.81	8. 37	100. 18	74.00	26. 18	Peak	No Limit
2 *	2479.9750	87.54	8. 37	95. 91	54.00	41.91	AVG	No Limit
3	2483. 5000	41.67	8. 38	50.05	74.00	-23. 95	Peak	
4	2483. 5000	31. 23	8. 38	39. 61	54.00	-14.39	AVG	
3 4								

## **REMARKS**:

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

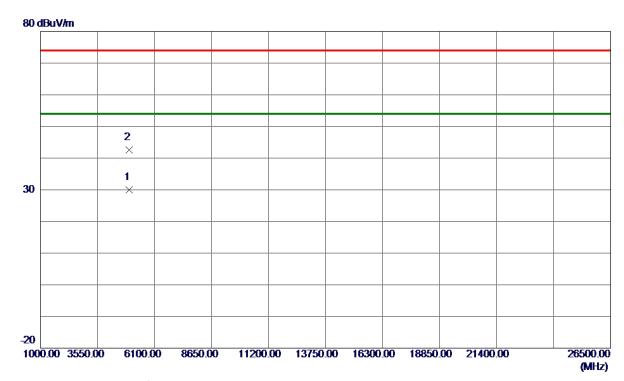
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#### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4957.6349	24.53	5. 40	29. 93	54.00	-24.07	AVG	
2	4959.6000	37. 28	5.41	42.69	74.00	-31. 31	Peak	

## **REMARKS**:

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

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APPENDIX E - BANDWIDTH

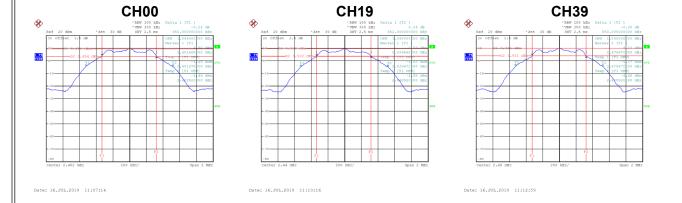
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Test Mode: CH00, CH19, CH39 - 1Mbps

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Test Result
00	2402	0.650	1.044	500	Pass
19	2440	0.652	1.048	500	Pass
39	2480	0.650	1.048	500	Pass







APPENDIX F - MAXIMUM AVERAGE OUTPUT POWER

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Test Mode : CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Average Output Power (dBm)	Average Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	10.01	0.0100	30.00	1.00	Pass
2440	9.80	0.0095	30.00	1.00	Pass
2480	9.38	0.0087	30.00	1.00	Pass

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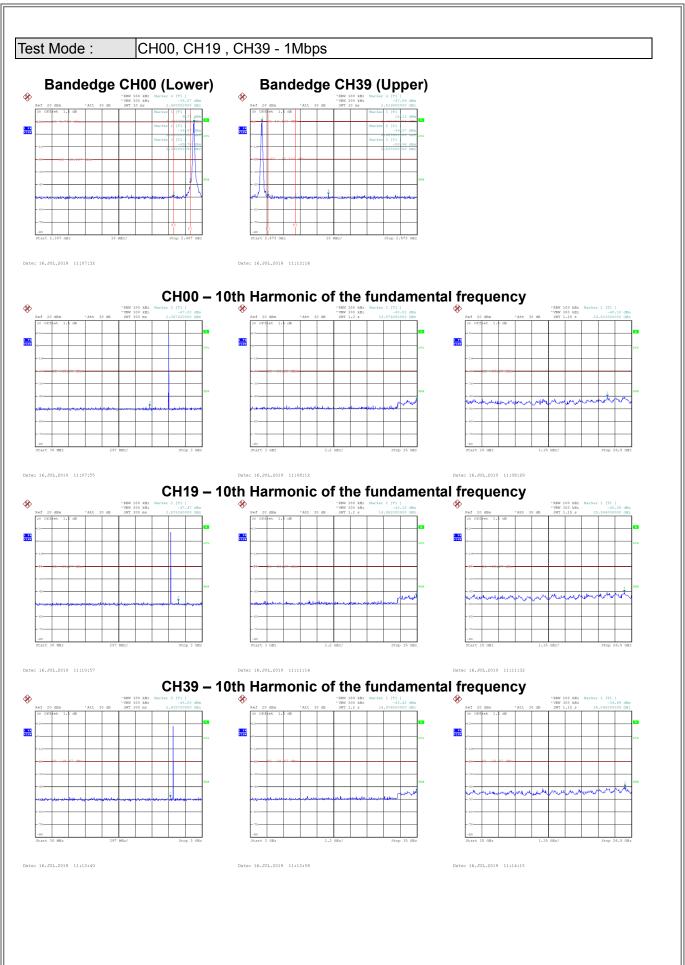


APPENDIX G - CONDUCTED SPURIOUS EMISSION

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APPENDIX H - POWER SPECTRAL DENSITY

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Test Mode: CH00, CH19, CH39 - 1Mbps

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	-5.880	8.00	Pass
19	2440	-6.330	8.00	Pass
39	2480	-5.970	8.00	Pass

