



Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
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FCC 15.231 Test Report

for

Chungear Industrial Co., Ltd

12 Jingke 8th Rd Nantun District Taichung 40852 Taiwan

**Product Name : Ceiling Fan Remote Controller
(Transmitter)**

Model Name : TR205F

FCC ID : KUJCE10722

**Prepared by: : AUDIX Technology Corporation,
EMC Department**



The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. Government.

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TEST REPORT CERTIFICATION

Applicant : Chungear Industrial Co., Ltd
Manufacturer #1 : Chungear Industrial Co., Ltd
Manufacturer #2 : Satellite Electronic (Zhongshan) Ltd.
Manufacturer #3 : Zhongshan Amity Electronic Ltd.
EUT Description
(1) Product : Ceiling Fan Remote Controller (Transmitter)
(2) Model : TR205F
(3) Power Supply: AC 120V/60Hz

Applicable Standards:

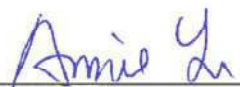
47CFR FCC Part 15 Subpart C
ANSI C63.10:2013

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2019. 06. 17

Reviewed by:



(Annie Yu/Administrator)

Approved by:



(Ben Cheng/Manager)



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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2019. 06. 17	Original Report	EM-F180502

2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	PASS
15.209/15.231(b)	Radiated Spurious Emission and Fundamental Frequency	PASS
15.231(c)	Emission Bandwidth	PASS
15.231(a)(1)	Periodic Operated	PASS
15.203	Antenna Requirement	Compliance

3. GENERAL INFORMATION

3.1. Description of Application

Applicant	Chungear Industrial Co., Ltd 12 Jingke 8th Rd Nantun District Taichung 40852 Taiwan
Manufacture	#1 Chungear Industrial Co., Ltd 12 Jingke 8th Rd Nantun District Taichung 40852 Taiwan #2 Satellite Electronic (Zhongshan) Ltd. 8 Chuang Ye Rd. Torch development Zone. Zhongshan. Guangdong. 528437 China #3 Zhongshan Amity Electronic Ltd. No. 16 Torch Hi-Tech Industrial Development Zone, Zhongshan City Guangdong Province China
Product	Ceiling Fan Remote Controller (Transmitter)
Model	TR205F

3.2. Description of EUT

Test Model	TR205F
Serial Number	N/A
Power Rating	AC 120V/60Hz
RF Features	ASK
Transmit Type	1T
Sample Status	Production
Date of Receipt	2018. 08. 24
Date of Test	2018. 09. 19 ~ 10. 30
Interface Ports of EUT	N/A
Accessories Supplied	N/A

3.3. Antenna Information

Antenna Type	Single Antenna
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3.4. EUT Specifications Assessed in Current Report

Modulation	Fundamental Range (MHz)	Channel Number
ASK	304.25	1

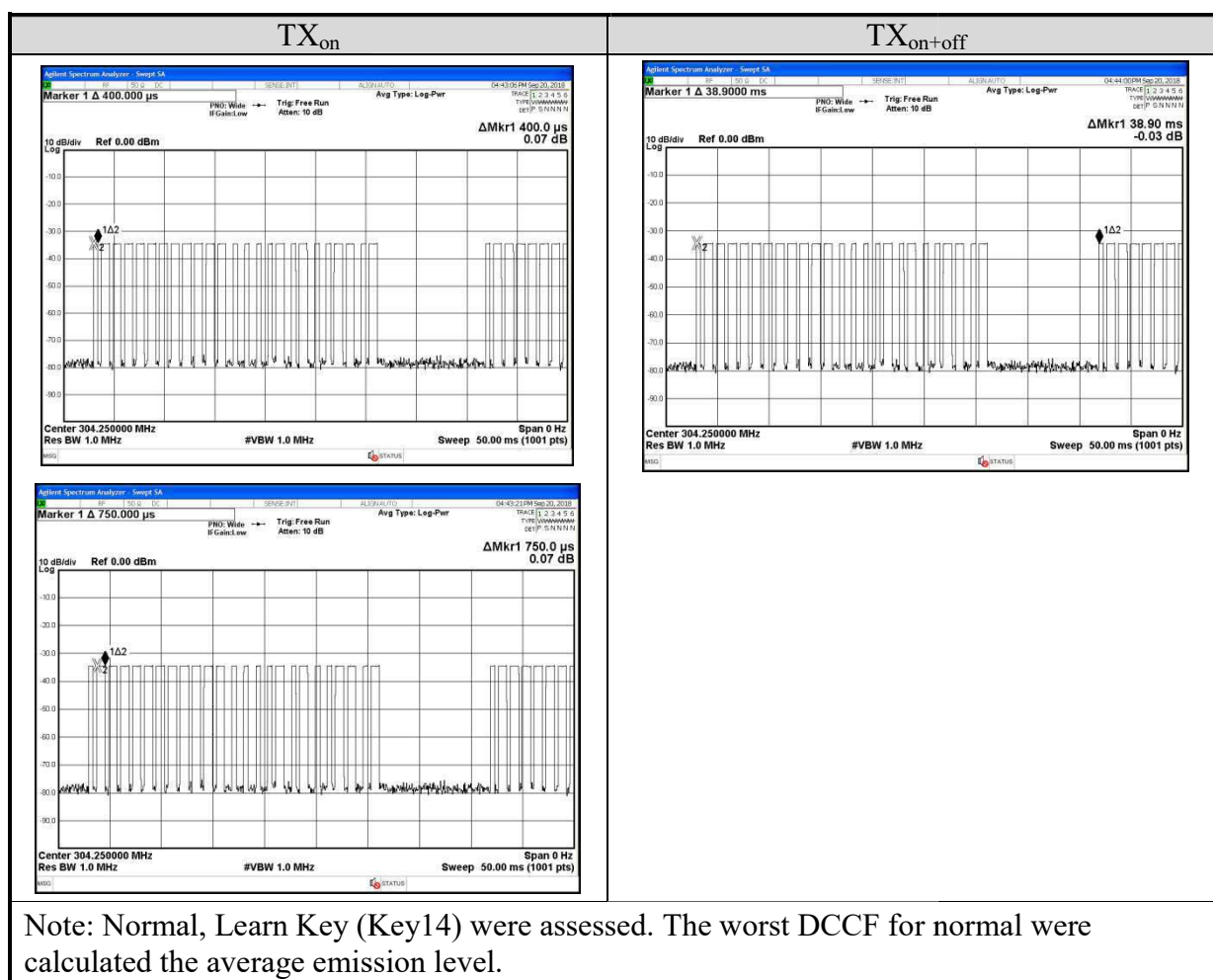
3.5. Description of Key Components

None.

3.6. Test Configuration

Duty Cycle

TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle Factor (dB)
0.4*9+0.75*16= 15.6	38.9	-7.94
Duty Cycle Factor = 20log (TX _{on} / TX _{on+off})		



AC Conduction	
Test Case	Normal operation

Item	Test Frequency
Radiated Spurious Emission and Fundamental Frequency	304.25MHz
Emission Bandwidth	304.25MHz
Periodic Operated	304.25MHz

Note : ☒ Mobile Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow: ☒ Lie ☐ Side ☐ Stand
☐ Portable Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow: ☐ Lie ☐ Side ☐ Stand

3.7. Tested Supporting System List

3.7.1. Support Peripheral Unit

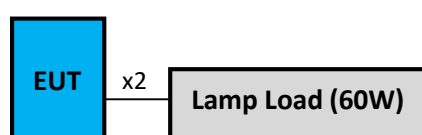
No.	Product	Brand	Model No.	Serial No.	Approval
1.	Lamp Load (60W)	N/A	N/A	N/A	FCC By DoC

3.7.2. Cable Lists

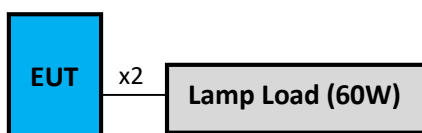
No.	Cable Description Of The Above Support Units
1.	Data cable x2: Unshielded, Detachable, 0.1m

3.8. Setup Configuration

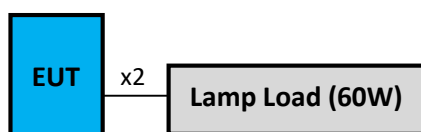
3.8.1. EUT Configuration for Power Line Emission



3.8.2. EUT Configuration for Radiated Emission



3.8.3. EUT Configuration for RF Conducted Test Items



3.9. Operating Condition of EUT

To press the button of EUT is used for enabling EUT RF function under continues transmitting and choosing data rate/ channel.

3.10. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2005 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 (1) No. 8 Shielding Room (2) Semi-Anechoic Chamber (IC Test Site Registration No.:5183B-1) (3) Fully Anechoic Chamber (IC Test Site Registration No.:5183B-4)

3.11. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conduction Test	150kHz~30MHz	±3.50dB
Radiation Test (Distance: 3m)	9kHz~30MHz	±0.5dB
	30MHz~1000MHz	± 3.68dB
	Above 1GHz	±5.82dB

Remark : Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
Emission Bandwidth (20dB)	±0.2kHz
Periodic Operated	±0.05s

4. MEASUREMENT EQUIPMENT LIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1	Test Receiver	R&S	ESR3	101774	2018. 01. 24	1 Year
2	A.M.N.	R&S	ENV4200	100169	2017. 11. 12	1 Year
3	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	2017. 12. 14	1 Year
4	Pulse Limiter	R&S	ESH3-Z2	100354	2018. 01. 16	1 Year
5	Signal Cable	Yeida	RG/58AU	CE-08	2018. 09. 21	1 Year
6	Digital Thermo- Hygro Meter	iMax	HTC-1	No.8 S/R	2018.04.20	1 Year
7	Test Software	Audix	e3	V.6.120424	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2018. 09. 12	1 Year
2.	Spectrum Analyzer	Agilent	N9030A-526	MY53310269	2018. 01. 04	1 Year
3.	Test Receiver	R & S	ESCS30	100338	2018. 06. 20	1 Year
4.	Amplifier	HP	8447D	2944A06305	2018. 01. 30	1 Year
5.	Amplifier	HP	8449B	3008A02678	2018. 03. 06	1 Year
6.	Bilog Antenna	CHASE	CBL6112D	33821	2018. 01. 21	1 Year
7.	Loop Antenna	R&S	HFH2-Z2	891847/27	2017. 12. 18	1 Year
8.	Horn Antenna	EMCO	3115	9609-4927	2018. 06. 22	1 Year
9.	Digital Thermo-Hygro Meter	IMax	HTC-1	No.1 3m A/C	2018. 04. 20	1 Year
10.	Digital Thermo-Hygro Meter	EVERY DAY	E-512	RF-02	2018. 04. 20	1 Year
11.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A-544	US51350140	2018. 06. 20	1 Year
2.	Wide Band Antenna	Diamond	RH799	N/A	N.C.R	N.C.R
3.	Digital Thermo-Hygro Meter	Shenzhen Datronn Electronics	KT-905	RF	2018. 04. 20	1 Year

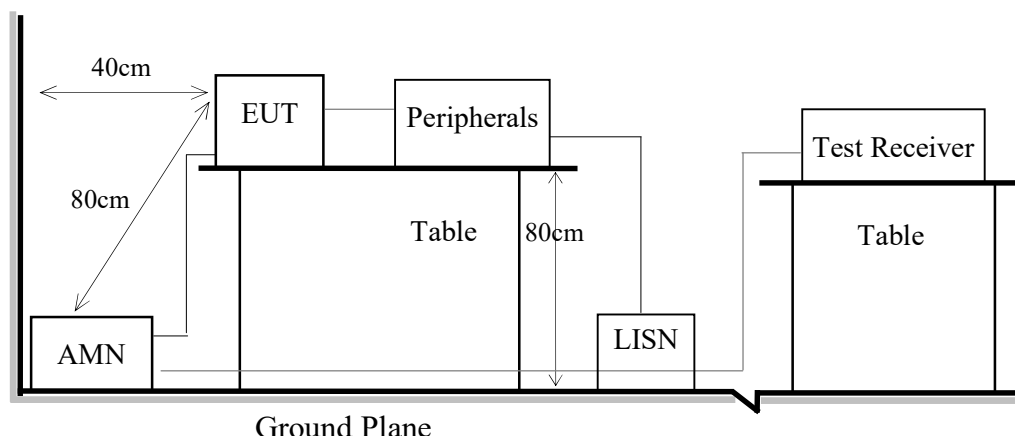
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.8

5.1.2. Shielded Room Setup Diagram



5.2. Conducted Emission Limit

Frequency	Conducted Limit	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C 63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Test Results

Please refer to Appendix A.

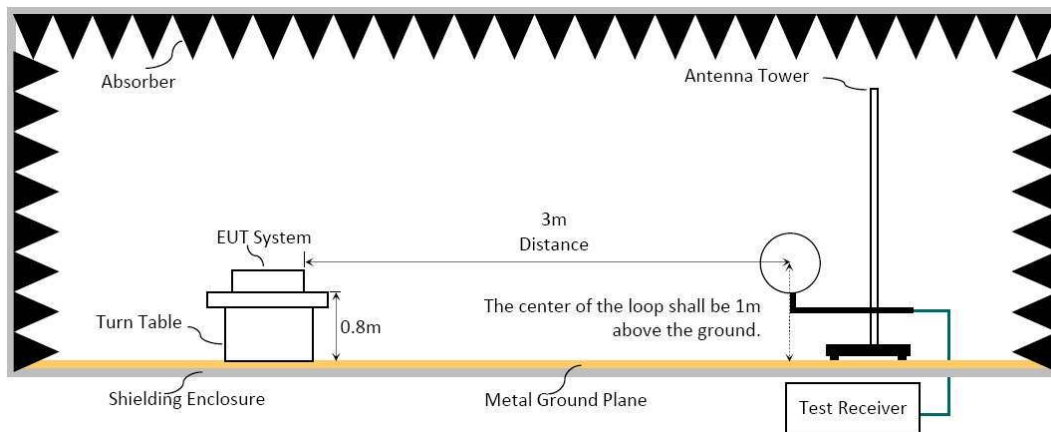
6. RADIATED SPURIOUS EMISSION

6.1. Block Diagram of Test Setup

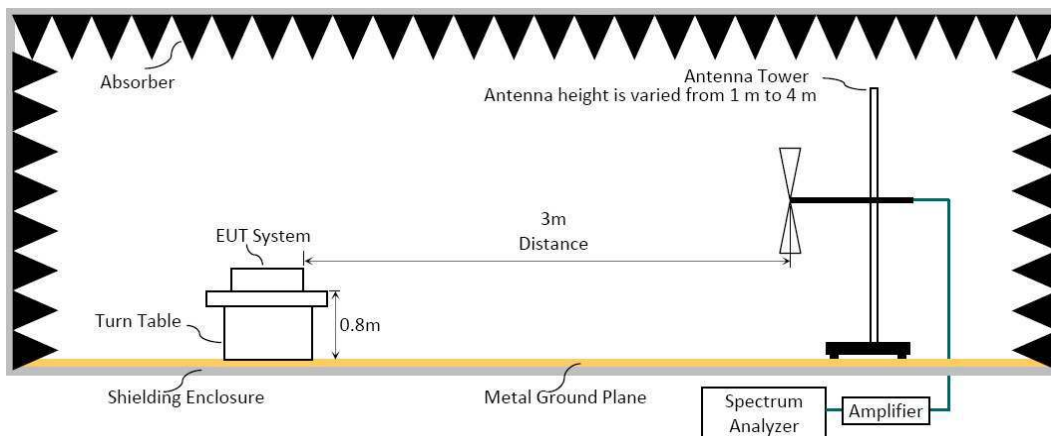
6.1.1. Block Diagram of EUT

Indicated as section 3.8

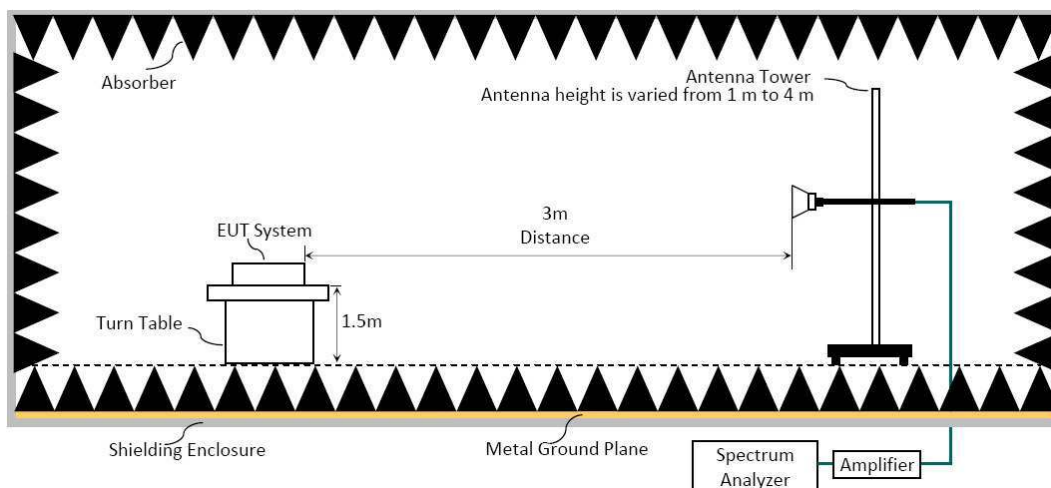
6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30MHz-1000MHz



6.1.4. Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

6.2.1. General Limit

Radiated emissions which fall in restricted bands, as defined in Section 15.205 must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance(m)	Limits	
		dB μ V/m	μ V/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

Remark : (1) dB μ V/m = 20 log (μ V/m)

- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this section.
- (5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

6.2.2. Limite for Fundamental Frequency

In addition to the provisions of §15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	¹ 1,250 to 3,750	¹ 125 to 375
174-260	3,750	375
260-470	¹ 3,750 to 12,500	¹ 375 to 1,250
Above 470	12,500	1,250
¹ : Linear Interpolations		

Remark : (1) $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$

(2) The tighter limit applies to the edge between two frequency bands.

(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(4) Where limit of Fundamental Freq. is calculated by:

$$41.6667 \times 304.25 - 7083.3333 = 5593.760175 \mu\text{V/m} = 74.95 \text{dB}\mu\text{V/m}$$

(5) The limits in this table are based on CFR 47 Part 15.231(b).

6.3. Test Procedure

Frequency Range 9kHz~30MHz:

The EUT setup on the turntable which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level.

In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

(1) RBW = 9kHz with peak and average detector.

(2) Detector: average and peak (9kHz-490kHz)

Q.P. (490kHz-30MHz)

Frequency Range 30MHz to 10th harmonic:

The EUT setup on the turn table which has 80 cm (for 30-1000 MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

Frequency below 1GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1) RBW = 120KHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

Frequency above 1GHz to 10th harmonic:**Peak Detector:**

- (1) RBW = 1MHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.
- (7) When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

Average Detector:☐ **Option 1:**

- (1) RBW = 1MHz
- (2) VBW $\geq 1/T$.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

☒ **Option 2:**

Average Emission Level = Peak Emission Level + D.C.C.F.

6.4. Measurement Result Explanation

☒ Peak Emission Level = Antenna Factor + Cable Loss + Meter Reading

☐ Average Emission Level = Antenna Factor + Cable Loss + Meter Reading

☒ Average Emission Level = Peak Emission Level + DCCF

Duty Cycle Correction Factor (DCCF) = $20\log(TX_{on}/TX_{on+off})$ presented in section 3.6

☐ ERP = Peak Emission Level - 95.2dB - 2.14dB



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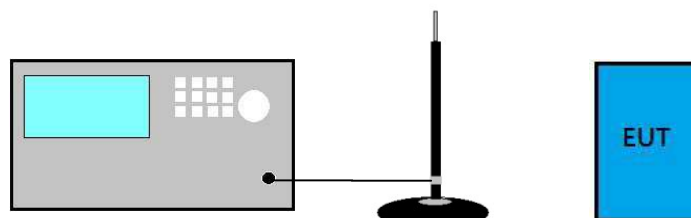
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6.5. Test Results

Please refer to Appendix A.

7. EMISSION BANDWIDTH MEASUREMENT

7.1. Block Diagram of Test Setup



7.2. Specification Limits

The bandwidth of emission shall be no wider than 0.25% of the center frequency for device operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20dB down from the modulated carrier.

7.3. Test Procedure

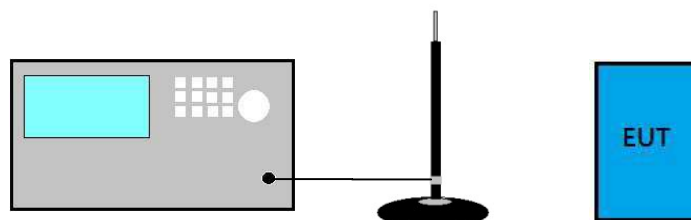
- (1) Set RBW close to 1-5 % of OBW.
- (2) Set $VBW \geq RBW$.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -20 dB to record the final bandwidth.

7.4. Test Results

Please refer to Appendix A

8. PERIODIC OPERATED MEASUREMENT

8.1. Block Diagram of Test Setup



8.2. Specification Limits

The operation of this device is manually operated transmitter that is automatically deactivated the transmitter within not more than 5 seconds of being released

8.3. Test Procedure

- (1) Span = zero
- (2) $RBW \geq 100\text{kHz}$
- (3) $VBW \geq RBW$
- (4) Sweep = 5s
- (5) Detector function = peak
- (6) Trace = single sweep

8.4. Test Results

Please refer to Appendix A



9. DEVIATION TO TEST SPECIFICATIONS

【NONE】



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APPDNDIX A

TEST DATA AND PLOTS

(Model:TR205F)

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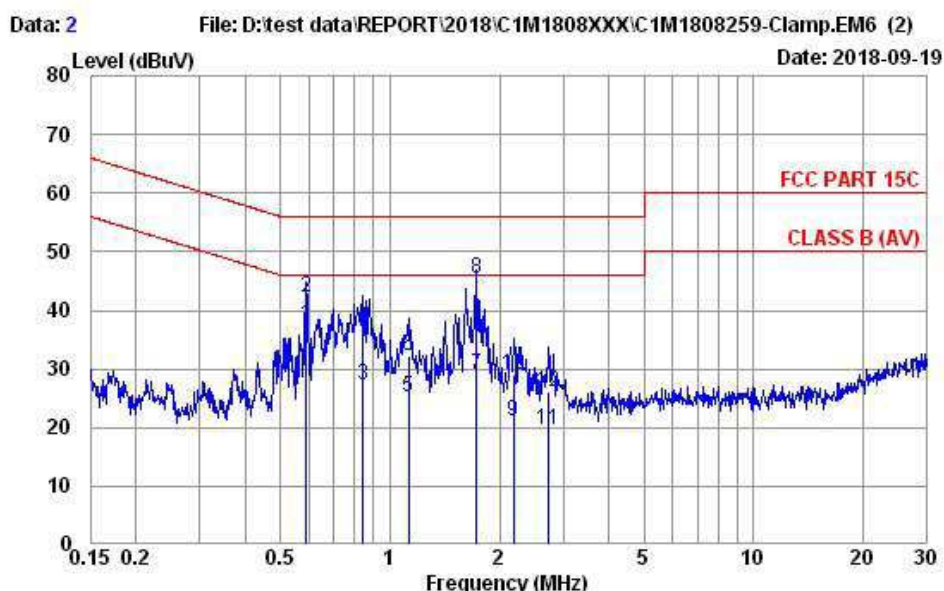
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A.1 CONDUCTED EMISSION

Test Date	2018/09/19	Temp./Hum.	26°C/64%
Test Voltage	AC 120V, 60Hz		



Site no. : No.8 Shielded Room Data no. : 2
Condition : ENV4200 100169 LISN Phase : NEUTRAL
Limit : FCC PART 15C
Env. / Ins. : 26°C /64% ESR3(1774) Engineer : Nick Du
EUT : TR205F
Power Rating : 120Vac/60Hz
Test Mode : OPERATING

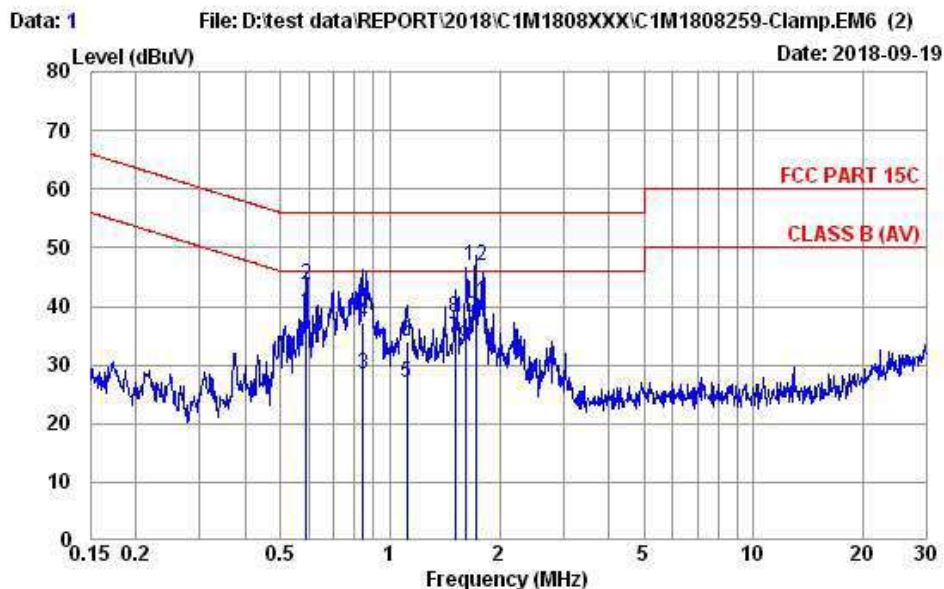
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.589	10.43	0.05	9.98	17.11	37.57	46.00	8.43	Average
2	0.589	10.43	0.05	9.98	21.88	42.34	56.00	13.66	QP
3	0.844	10.42	0.06	9.99	6.86	27.33	46.00	18.67	Average
4	0.844	10.42	0.06	9.99	15.73	36.20	56.00	19.80	QP
5	1.123	10.43	0.06	9.99	4.71	25.19	46.00	20.81	Average
6	1.123	10.43	0.06	9.99	11.73	32.21	56.00	23.79	QP
7	1.725	10.45	0.07	9.99	8.50	29.01	46.00	16.99	Average
8	1.725	10.45	0.07	9.99	24.92	45.43	56.00	10.57	QP
9	2.190	10.48	0.08	9.99	0.45	21.00	46.00	25.00	Average
10	2.190	10.48	0.08	9.99	8.35	28.90	56.00	27.10	QP
11	2.736	10.52	0.09	10.00	-0.84	19.77	46.00	26.23	Average
12	2.736	10.52	0.09	10.00	5.36	25.97	56.00	30.03	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Test Date	2018/09/19	Temp./Hum.	26°C/64%
Test Voltage	AC 120V, 60Hz		



Site no. : No.8 Shielded Room Data no. : 1
Condition : ENV4200 100169 LISN Phase : LINE
Limit : FCC PART 15C
Env. / Ins. : 26°C / 64% ESR3(1774) Engineer : Nick Du
EUT : TR205F
Power Rating : 120Vac/60Hz
Test Mode : OPERATING

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.589	10.45	0.05	9.98	18.42	38.90	46.00	7.10	Average
2	0.589	10.45	0.05	9.98	23.25	43.73	56.00	12.27	QP
3	0.844	10.44	0.06	9.99	7.84	28.33	46.00	17.67	Average
4	0.844	10.44	0.06	9.99	16.86	37.35	56.00	18.65	QP
5	1.111	10.44	0.06	9.99	6.41	26.90	46.00	19.10	Average
6	1.111	10.44	0.06	9.99	13.49	33.98	56.00	22.02	QP
7	1.511	10.46	0.06	9.99	13.99	34.50	46.00	11.50	Average
8	1.511	10.46	0.06	9.99	17.57	38.08	56.00	17.92	QP
9	1.610	10.46	0.06	9.99	12.63	33.14	46.00	12.86	Average
10	1.610	10.46	0.06	9.99	17.58	38.09	56.00	17.91	QP
11	1.716	10.46	0.07	9.99	20.36	40.88	46.00	5.12	Average
12	1.716	10.46	0.07	9.99	26.33	46.85	56.00	9.15	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

A.2 RADIATED SPURIOUS EMISSION

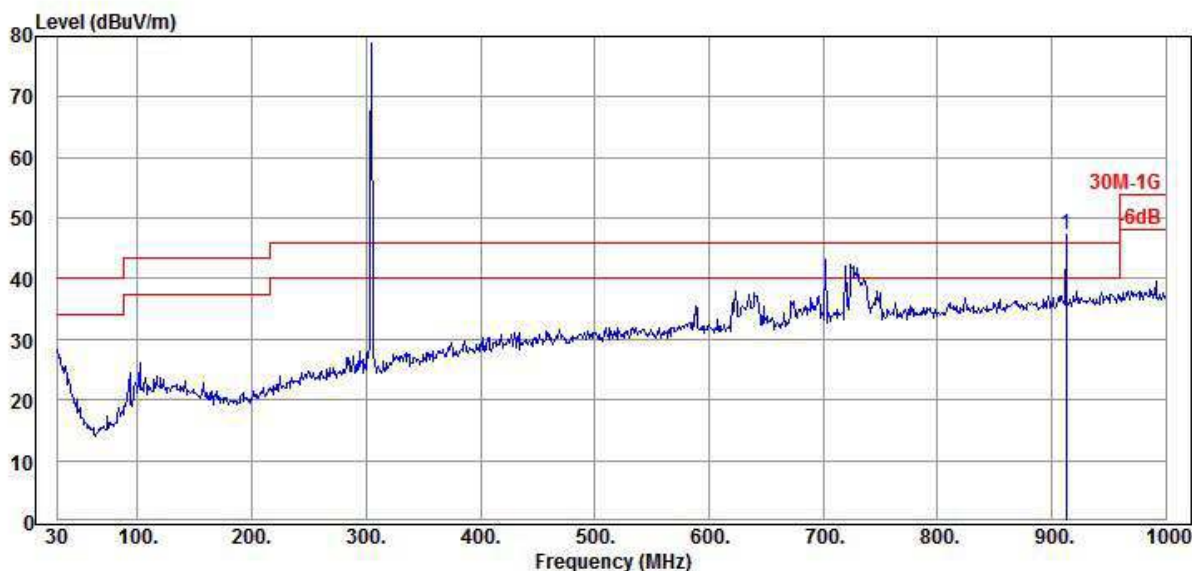
Test Date	2018/10/30	Temp./Hum.	24°C/52%
Test Frequency	TX 304.25MHz	Test Voltage	AC 120V/60Hz

A.2.1 Emissions Applied to General Requirement

A.2.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

A.2.1.2 Frequency Below 1 GHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
912.70	26.95	8.26	12.09	47.30	46.00	-1.30	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
912.7	47.3	-7.94	39.36	46.00	6.64	Average

Remark: We used highest DCCF to calculate the average emission level.

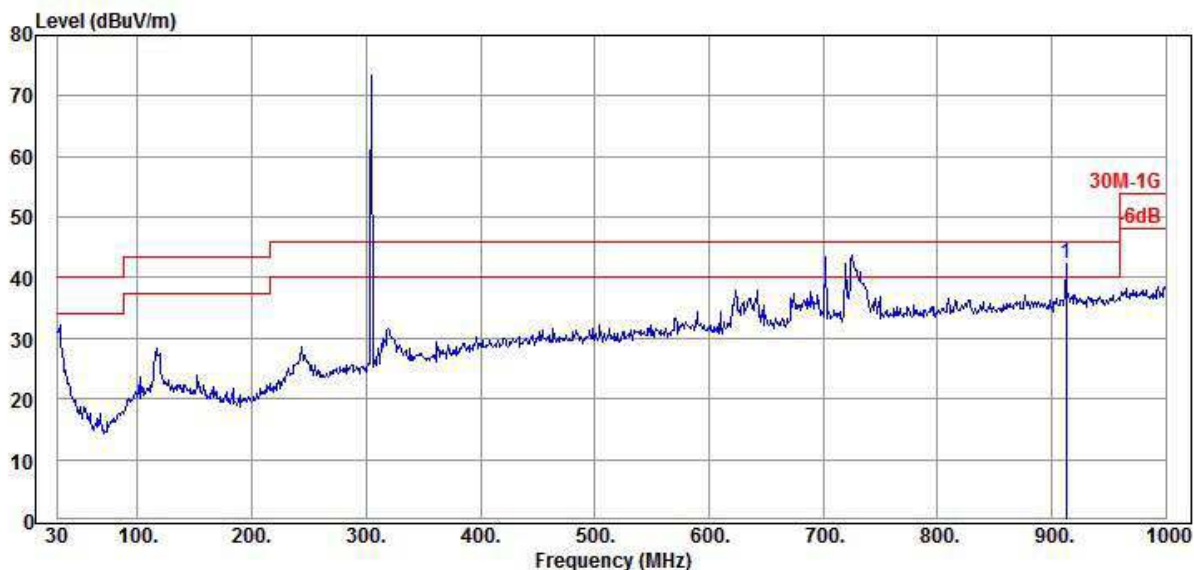
Audix Technology Corp.

No. 53-11, Dingfu, Linkou, Dist.,

New Taipei City 244, Taiwan

Tel: +886 2 26099301

Fax: +886 2 26099303



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
912.70	26.95	8.26	7.22	42.43	46.00	3.57	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
912.7	42.43	-7.94	34.49	46.00	11.51	Average

Remark: We used highest DCCF to calculate the average emission level.

A.2.1.3 Frequency Above 1 GHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
1522.00	28.24	5.95	7.35	41.54	74.00	32.46	Peak
2131.00	31.79	7.45	12.61	51.85	74.00	22.15	Peak
2737.00	32.58	8.41	12.48	53.47	74.00	20.53	Peak
3346.00	32.83	9.22	4.23	46.28	74.00	27.72	Peak

Emission Frequency (MHz)	Peak Emission Level (dB μ V/m)	DCCF (dB)	Average Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1522	41.54	-7.94	33.60	54.00	20.40	Average
2131	51.85	-7.94	43.91	54.00	10.09	Average
2737	53.47	-7.94	45.53	54.00	8.47	Average
3346	46.28	-7.94	38.34	54.00	15.66	Average

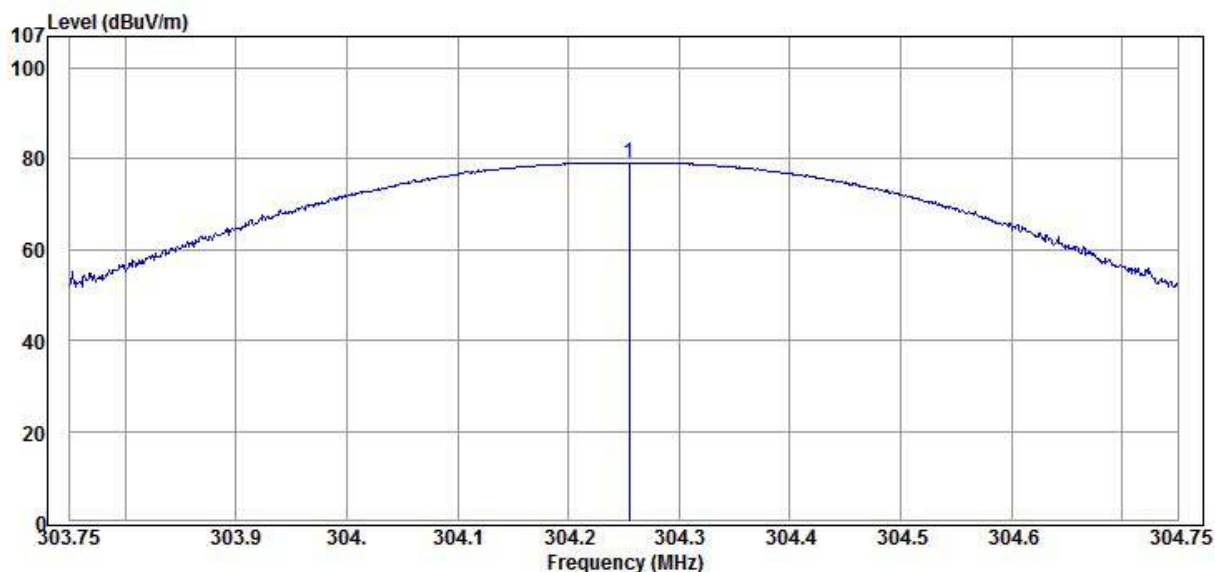
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
2131.00	31.79	7.45	6.88	46.12	74.00	27.88	Peak
2737.00	32.58	8.41	10.15	51.14	74.00	22.86	Peak
3346.00	32.83	9.22	6.13	48.18	74.00	25.82	Peak

Emission Frequency (MHz)	Peak Emission Level (dB μ V/m)	DCCF (dB)	Average Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
2131	46.12	-7.94	38.18	54.00	15.82	Average
2737	51.14	-7.94	43.20	54.00	10.80	Average
3346	48.18	-7.94	40.24	54.00	13.76	Average

Remark: We used highest DCCF to calculate the average emission level.

A.2.2 Fundamental Frequency



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
304.26	19.62	4.37	55.24	79.23	94.95	15.72	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
304.26	79.23	-7.94	71.29	74.95	3.66	Average

Remark: Horizontal is the strongest polarization, so vertical won't be listed in test report.

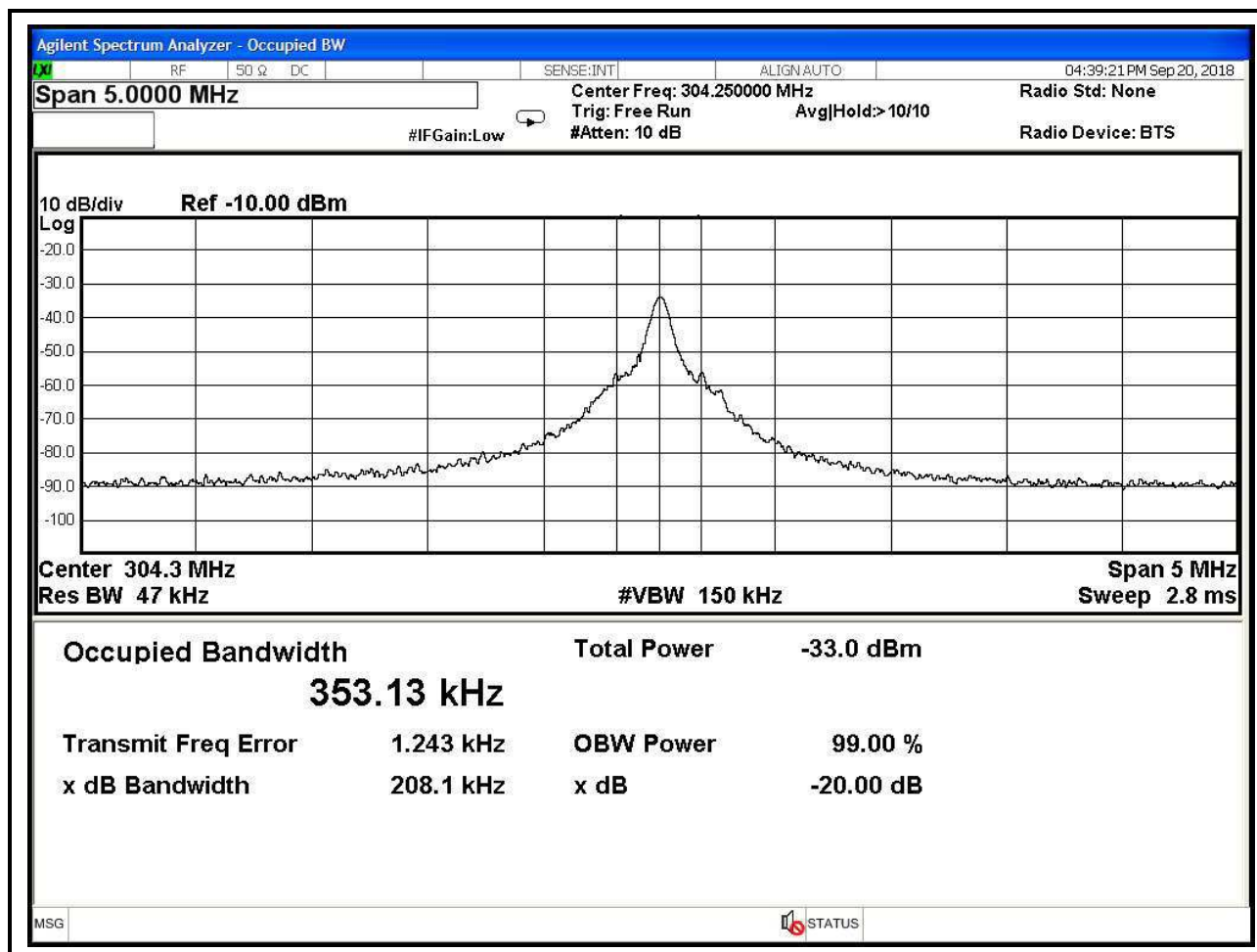
A.3 EMISSION BANDWIDTH MEASUREMENT

Test Date	2018/09/20	Temp./Hum.	26°C/64%
Test Frequency	TX 304.25MHz	Test Voltage	AC 120V/60Hz

A.3.1 Emission Bandwidth

Center Frequency (MHz)	20dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Tolerance (%)	Limit (%)
304.25	0.2081	0.35313	0.068	0.25

A.3.2 Measurement Plots



A.4 PERIODIC OPERATED MEASUREMENT

Test Date	2018/09/20	Temp./Hum.	26°C/64%
Test Frequency	TX 304.25MHz	Test Voltage	AC 120V/60Hz

A.4.1 Periodic Operated

Center Frequency (MHz)	Time (Sec.)	Limit (Sec.)
304.25	0.265	< 5

A.4.2 Measurement Plots

