PHONE: 888.472.2424 OR 352.472.5500 EMAIL: <u>INFO@TIMCOENGR.COM</u>

WEB: <u>HTTP://WWW.TIMCOENGR.COM</u>



RF Exposure Evaluation Report

APPLICANT	NiCOM USA, INC		
ADDRESS	1690 CACTUS ROAD SAN DIEGO CA. 92154 USA		
FCC ID	RMYNTI600		
MODEL NUMBER	NTi600		
PRODUCT DESCRIPTION	FM BROADCAST TRANSMITTER		
DATE SAMPLE RECEIVED	12/31/2018		
FINAL TEST DATE	1/14/2018		
PREPARED BY	Tim Royer		
TEST RESULTS	☐ PASS ☐ FAIL		

Report Number	Report Version	Description	Issue Date
2248UT18 MPE_TestReport_	Rev1	Initial Issue	10/15/2019
	Rev2	Updated page 3, and calculations	3/12/2020

THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.



TABLE OF CONTENTS

GENERAL REMARKS	2
GENERAL INFORMATION	3
ANTENNA INFORMATION	
POWER OUTPUT OF EUT	
MPE CALCULATION	
MPE LIMITS	
MPE TABLE	5



Page 2 of 5

GENERAL REMARKS

Summary

The device under test does:

Fulfill the general approval requirements as identified in this test report and was selected by the customer.
Not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

Timco Engineering Inc. 849 NW State Road 45 Newberry, FL 32669 Designation #: US1070

Prepared by:



Name and TitleTim Royer, Project Manager / EMC Testing EngineerDate10/15/2019

Applicant: NiCOM USA, INC FCC ID: RMYNTI600



GENERAL INFORMATION

EUT Description	FM BROADCAST TRANSMITTER		
Model Number	NTi600		
EUT Power Source	⊠110-250Vac, 50- 60Hz □ DC Power □ Battery		☐ Battery Operated
Test Item	☐ Engineering Prototype	□ Pre-Production	☐ Production
Type of Equipment	☐ Fixed ☐ Mobile ☐ I		□ Portable
Antenna Connector	external N Type		
Test Conditions	The temperature was 26°C Relative humidity of 50%.		
Modification to the EUT	No Modification to EUT.		
Applicable Standards	FCC CFR 47 Part 2.1091		
Test Facility	Timco Engineering Inc. at 849 NW State Road 45 Newberry, FL 32669 USA. Designation #: US1070		

ANTENNA INFORMATION

Manufacturer Provides Antenna	Туре	Max Gain (dBi)
No	Unspecified	0 dBi

POWER OUTPUT OF EUT

Frequency (MHz)	Rated Output Power (W)	
88	586	

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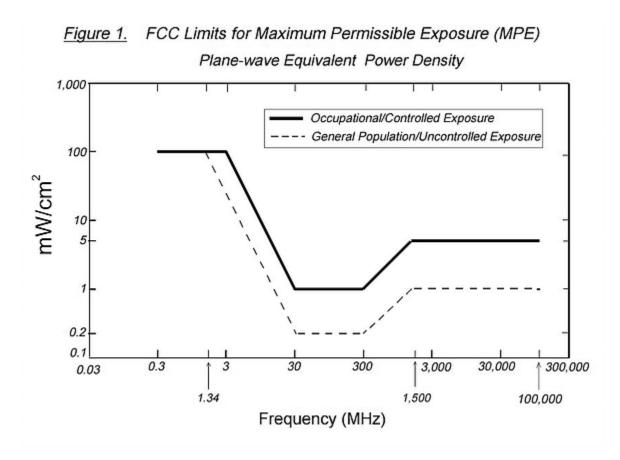


MPE CALCULATION

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power density: $P_d(mW/cm^2) = \frac{E^2}{3770}$

MPE LIMITS



Applicant: NiCOM USA, INC FCC ID: RMYNTI600



MPE Table

EUT Parameters			
Parameter	Value		Unit
EUT Form Factor	Fixed	▼	
Lowest Frequency	88.000		MHz
Highest Frequency	108.000		MHz
Maximum Power	57.780		dBm ▼
Tune Up Tolerance	1.000		+/- dBm ▼
Duty Cycle	100%		%
Antenna Gain	0.000		dBi EIRP ▼
Coax Loss	0.000		dB ▼
EIRP	755.092		W

Uncontrolled Public RF Exposure/MPE Guideline			
Separation Distance (cm)	548.1 cm		
Power Density (mW/cm²)	0.2 mW/cm2		
Controlled Occupational RF Exposure/MPE Guideline			
Separation Distance (cm)	245 cm		
Power Density (mW/cm²)	1 mW/cm2		

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