

31355 Bear Pond Drive
Sorrento, FL 32776

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EMAIL:
WEB:

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FCC PART 15.247

902-928 MHz DTS TEST REPORT

APPLICANT	Click or tap here to enter text.
ADDRESS	Click or tap here to enter text.
PRODUCT MODEL NUMBER	Click or tap here to enter text.
PRODUCT DESCRIPTION	Click or tap here to enter text.
FCC ID	Click or tap here to enter text.
DATE SAMPLE RECEIVED	Click or tap here to enter text.
FINAL TEST DATE	Click or tap here to enter text.
TESTED BY	Click or tap here to enter text.
APROVED BY	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL

Report Number	Report Version	Description	Issue Date
Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

**THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL OF RF LABORATORIES, INC**

Table of Contents

General Remarks 3

GENERAL INFORMATION..... 4

 EUT Information 4

 Test Results Summary 5

DTS Bandwidth..... **Error! Bookmark not defined.**

 Test Data: DTS Bandwidth Measurement Table..... **Error! Bookmark not defined.**

 Test Data: DTS Bandwidth, 915 MHz..... **Error! Bookmark not defined.**

Power Spectral Density 6

 Test Data: PSD, 915 MHz..... 6

POWER OUTPUT..... 7

 Test Data: Power Output Measurement Table..... 7

 Test Data: Power Output, 915 MHz 8

AUTHORIZED BANDEDGE EMISSIONS..... **Error! Bookmark not defined.**

 Test Data: Lower Band Edge Plot **Error! Bookmark not defined.**

 Test Data: Upper Band Edge Plot **Error! Bookmark not defined.**

CONDUCTED SPURIOUS EMISSIONS **Error! Bookmark not defined.**

 Test Data: 915 MHz **Error! Bookmark not defined.**

RADIATED SPURIOUS EMISSIONS..... 9

 Test Data: Field Strength of the Fundamental 14

 Test Data: 915MHz 14

TEST EQUIPMENT LIST..... **Error! Bookmark not defined.**

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:

RF Laboratories Inc.
31355 Bear Pond Drive
Sorrento, FL 32776

Tested By:

Name and Title: Click or tap here to enter text.

Date: Click or tap here to enter text.

Reviewed and approved by:

Name and Title: Click or tap here to enter text.

Date: Click or tap here to enter text.

Applicant:
FCC ID:
Report:

GENERAL INFORMATION

EUT Information

EUT Description	Click or tap here to enter text.		
FCC ID	Click or tap here to enter text.		
EUT Power Source	<input type="checkbox"/> 110-120 Vac, 50-60Hz	<input type="checkbox"/> DC Power	<input type="checkbox"/> Battery Operated
Test Item	<input type="checkbox"/> Prototype	<input type="checkbox"/> Pre-Production	<input type="checkbox"/> Production
Type of Equipment	<input type="checkbox"/> Fixed	<input type="checkbox"/> Mobile	<input type="checkbox"/> Portable
Antenna Connector	Click or tap here to enter text.		
Normal Duty Cycle	Click or tap here to enter text.		
Test Conditions	The temperature was 26°C Relative humidity of 50%		
Test Configuration	Click or tap here to enter text.		
Modification to the EUT	Click or tap here to enter text.		
Applicable Standards	ANSI C63.10-2013 ANSI C6204-2014 (Radiated Site Validation)		
Test Facility	Click or tap here to enter text.		

Peripherals Used in Testing

Description	Type	Connector	Length
n/a	n/a	n/a	n/a

EUT Modes of DTS Operation

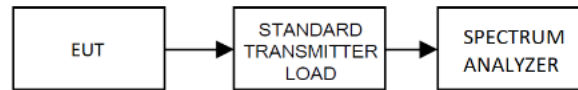
Description	Modulation Type
Click or tap here to enter text.	Click or tap here to enter text.

Test Results Summary

Requirement	FCC Rule Part	Results
Click or tap here to enter text.	15.247, 15.37(h)	Click or tap here to enter text.
Occupied Bandwidth	15.215 (c)	Click or tap here to enter text.
Antenna Power Output	15.247 (b)(4)	Click or tap here to enter text.
Output Power	15.247 (b)(3)	Click or tap here to enter text.
Power Spectral Density	15.247 (e)	Click or tap here to enter text.
Unwanted Emissions at the Bandedge	Click or tap here to enter text.	Click or tap here to enter text.
Unwanted Emissions Out of Band	15.247 (d)	Click or tap here to enter text.
Occupied Bandwidth	15.247 (a)(2)	Click or tap here to enter text.

Power Spectral Density

Test Setup:



Test Data: PSD, 915 MHz - Conducted

09:13:11 APR 29, 2024

MARKER
915.005 MHz
14.83 dBm

ACTU DET: PEAK
MEAS DET: PEAK QP AVG
MKR 915.005 MHz
14.83 dBm

MARKER
NORMAL

MARKER

△

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

LOG REF 30.0 dBm

10
dB/
ATN
40 dB

WA SB
SC FC
CORR

CENTER 915.000 MHz

IF BW 120 kHz

AUG BW 300 kHz

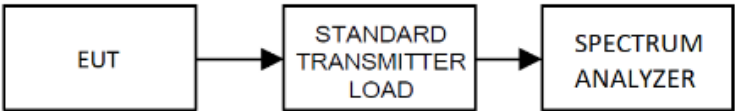
SPAN 1.000 MHz

SWP 20.0 msec

RESULTS Click or tap here to enter text.

POWER OUTPUT

Test Setup:



Test Data: Power Output Measurement Table

Tuned Frequency (MHz)	Power Output (dB)
915	Click or tap here to enter text.

Results: Click or tap here to enter text.

POWER OUTPUT Radiated

Test Data: Power Output, 915 MHz

08:46:21 APR 29, 2024

MARKER
915.000 MHz
106.00 dBμV

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 915.000 MHz
106.00 dBμV

MARKER
NORMAL

MARKER

△

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
ON OFF

More
1 of 3

LOG REF 127.0 dBμV

10
dB /
ATN
30 dB

WA SB
SC FC
ACORR

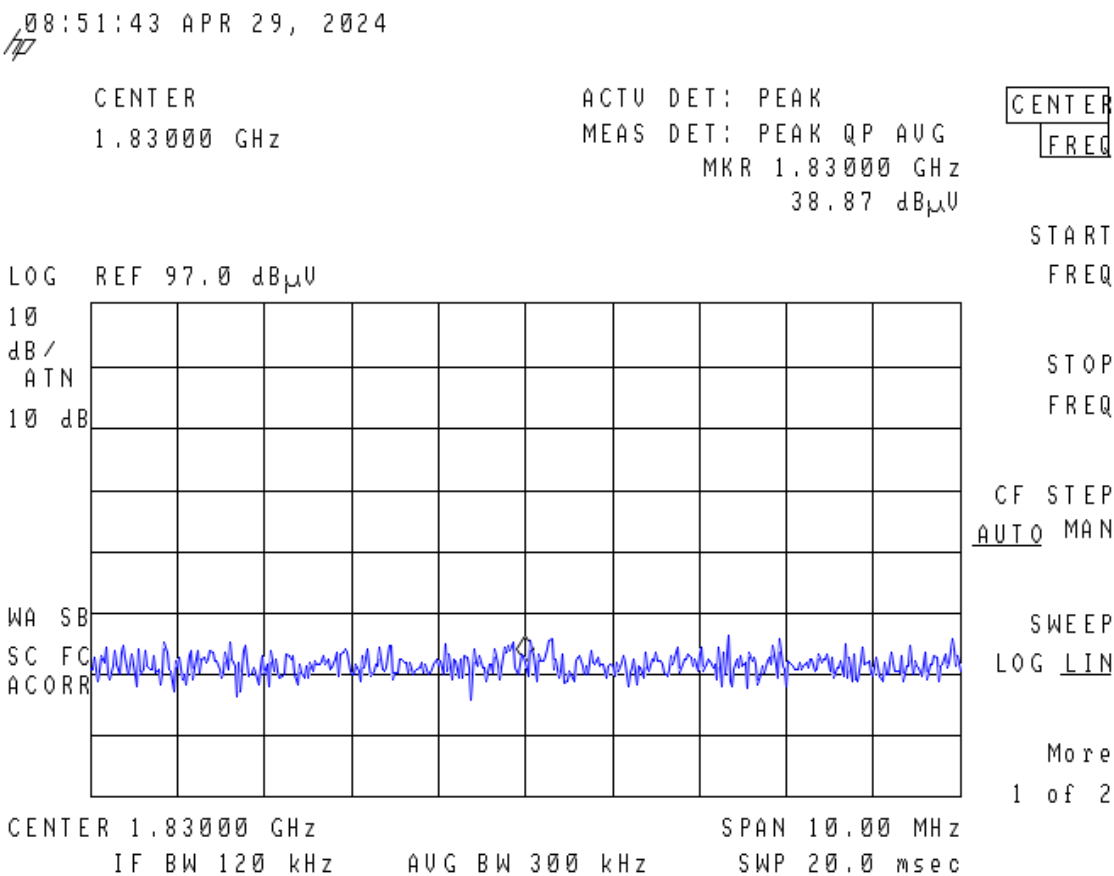
CENTER 915.000 MHz SPAN 2.000 MHz
IF BW 120 kHz AVG BW 300 kHz SWP 20.0 msec

RESULTS: Click or tap here to enter text.

Applicant:
FCC ID:
Report:

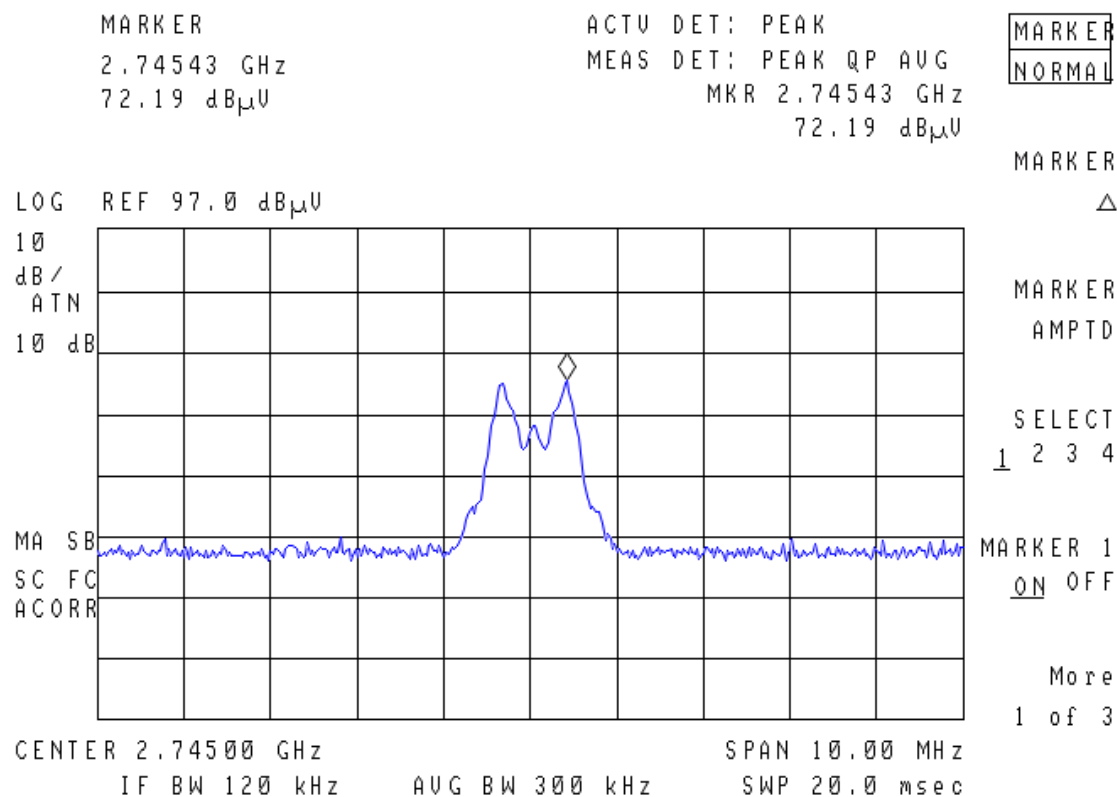
RADIATED SPURIOUS EMISSIONS

2nd Harmonic 915 MHz:



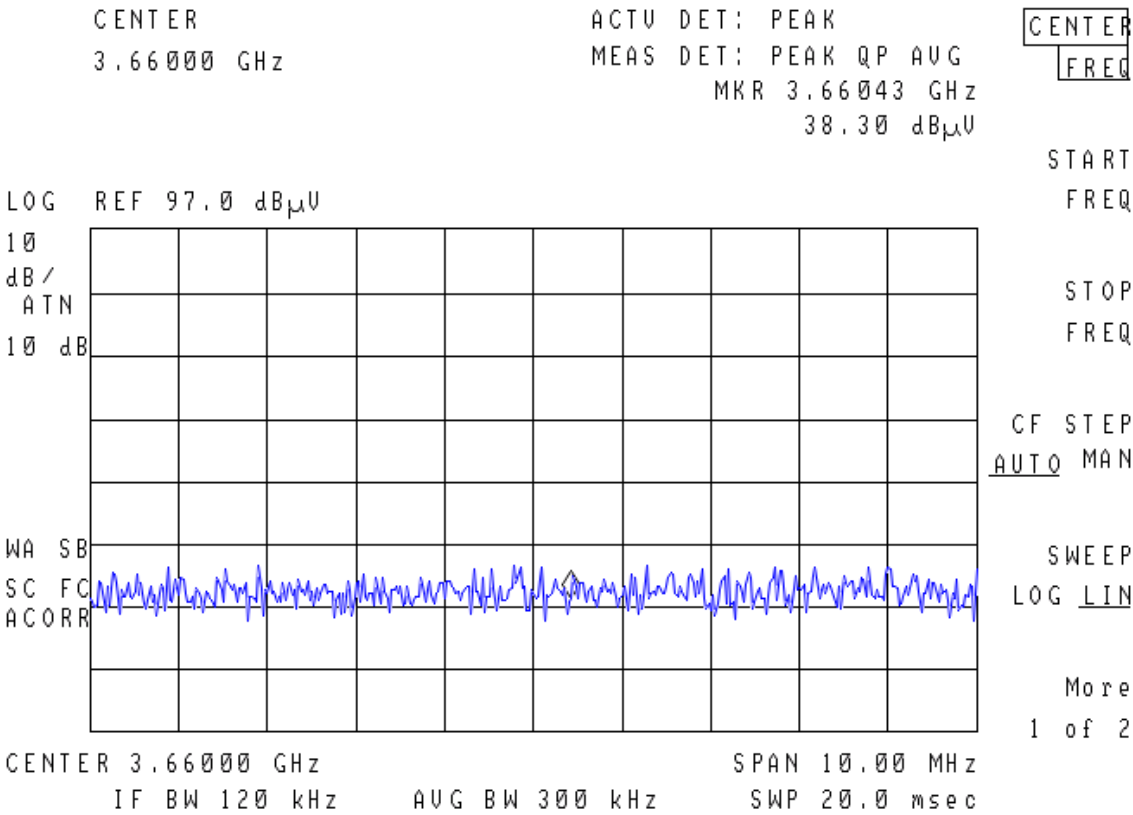
3rd Harmonic 915MHz:

08:55:41 APR 29, 2024



4th Harmonic 915MHz:

08:57:29 APR 29, 2024



5th Harmonic 915MHz:

08:58:39 APR 29, 2024

CENTER
4.57500 GHz

ACTU DET: PEAK
MEAS DET: PEAK QP AVG
MKR 4.57543 GHz
41.60 dBμV

CENTER
FREQ

START
FREQ

STOP
FREQ

CF STEP
AUTO MAN

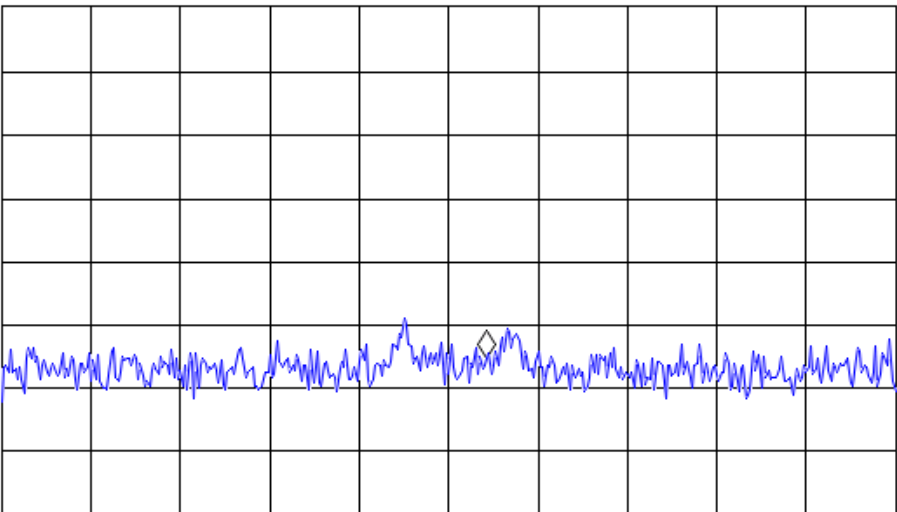
SWEEP
LOG LIN

More
1 of 2

LOG REF 97.0 dBμV

10
dB/
ATN
10 dB

WA SB
SC FC
ACORR



CENTER 4.57500 GHz SPAN 10.00 MHz
IF BW 120 kHz AUG BW 300 kHz SWP 20.0 msec

6th Harmonic 915MHz:

09:00:02 APR 29, 2024

CENTER
5.49500 GHz

ACTU DET: PEAK
MEAS DET: PEAK QP AVG
MKR 5.49543 GHz
39.25 dBμV

CENTER
FREQ

START
FREQ

STOP
FREQ

CF STEP
AUTO MAN

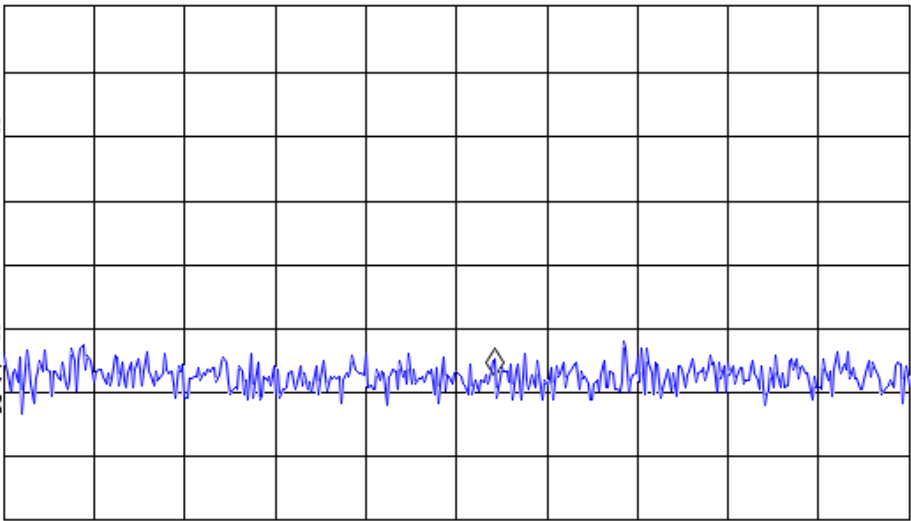
SWEEP
LOG LIN

More
1 of 2

LOG REF 97.0 dBμV

10
dB/
ATN
10 dB

WA SB
SC FC
ACORR



CENTER 5.49500 GHz SPAN 10.00 MHz
IF BW 120 kHz AUG BW 300 kHz SWP 20.0 msec

Test Data: Field Strength of the Fundamental

[illegible]

Test Data: 915MHz

[illegible]

Applicant:
FCC ID:
Report: