



Rogers Labs, a division of The Compatibility Center LLC

7915 Nieman Rd. Lenexa, KS 66214 Phone / Fax (913) 660-0666

Class 2 Permissible Change Test Report 47CFR Parts 2, 90 and RSS-137 Location and Monitoring Service Transmitter

Transcore

Amtech Technology Center 8600 Jefferson Street, NE Albuquerque, NM 87113

Model: 051168

FCC ID: FIH051168

IC: 1584A-051168

MRA Designation Number: US5305 IC Test Site Registration: 3041A

Test Report Number: 240501

Test Date: May 1, 2024

Authorized Signatory: TDR-44

Patrick Powell

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7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A Test: 240501 FCC ID: FIH051168 IC: 1584A-051168 Lenexa, KS 66214

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

File: Transcore Dual-Micro Toronto Tag C2PC 240501 rl Page 1 of 24 Revision 1



TABLE OF CONTENTS2
REVISIONS3
SUMMARY4
OPINION / INTERPRETATION OF RESULTS4
CHANGE TO EQUIPMENT FROM ORIGINAL DESIGN5
EQUIPMENT TESTED5
Equipment Function and Configuration5
Equipment Configuration6
APPLICABLE STANDARDS & TEST PROCEDURES6
TEST PROCEDURES7
Radiated Emission Procedure7
Diagram 1 Test arrangement for radiated emissions of tabletop equipment8
Diagram 2 Test arrangement for radiated emissions tested in Semi-Anechoic Chamber (SAC) and Outdoor Area Test Site (OATS)9
STATEMENT OF MODIFICATIONS AND DEVIATIONS10
ENVIRONMENTAL CONDITIONS10
TEST SITE LOCATION11
UNITS OF MEASUREMENTS11
TEST #1 TRANSMITTER POWER OUTPUT12
Measurements Required12
Test Arrangement
Table 1 Transmitter Power Results13
Figure 1 Transmitter Output Across Frequency Band14
Rogers Labs, a division of The Compatibility Center LLC 7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168 Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024 Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 2 of 24



TEST #2 SPURIOUS EMISSIONS	15
Measurements Required	15
Test Arrangement	15
Table 2 Spurious Emissions Results	16
TEST #3 FIELD STRENGTH OF SPURIOUS RADIATION	17
Measurements Required	17
Test Arrangement	17
Table 3 Field Strength of Spurious Radiation Results (Horizontal)	19
Table 4 Field Strength of Spurious Radiation Results (Vertical)	19
ANNEX	20
Annex A Measurement Uncertainty Calculations	21
Annex B Test Equipment	22
Annex C Laboratory Certificate of Accreditation	24

Revisions

Revision 1 Issued June 26, 2024

Rogers Labs, a division of The Compatibility Center LLC Transcore 7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A

Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 3 of 24



Summary

The following information is submitted as documentation of compliance with regulations supporting Class 2 (Class 3 ISED) Permissible Change of Authorized Equipment. This product was authorized under 47CFR Parts 2 and 90 and RSS-137 as Location and Monitoring Service Transmitter operating in the 902-928 MHz frequency band.

Name of Applicant: Transcore

Amtech Technology Center 8600 Jefferson Street, NE Albuquerque, NM 87113

HVIN: 051168 PMN: 051168

FVIN: M1-FCC-FC05

FCC ID: FIH051168 IC: 1584A-051168

Frequency of Operation: 915 MHz

Opinion / Interpretation of Results

Test Number	Measurement	FCC Rule	Pass/Fail
#1	Transmitter Power Output	47CFR paragraphs 2.1046 90.205, RSS-137, Issue 2	Pass
#2	Spurious Emissions	47CFR 2.1051, 2.1053, 47CFR paragraphs 90.209 and RSS-137	Pass
#3	Field Strength of Spurious Radiation	47CFR 2.1051, 2.1053, 47CFR paragraphs 90.209 and RSS-137	Pass

Rogers Labs, a division of The Compatibility Center LLC Transcore

7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 4 of 24



Change to Equipment from Original Design

The information contained in this report address modification to the original equipment as summarized below. The transmitter was modified to increase its efficiency and extend battery life. This was accomplished by replacing the microcontroller that was driving the transmitter elements with one that has higher-output GPIOs. The power was then reduced somewhat through an increase in the pi pad value in the transmit path.

Equipment Tested

Equipment Model / PN Serial Number

EUT #1 051168 N/A

Test results in this report relate only to the items tested.

FVIN / Software Version: M1-FCC-FC05

Equipment Function and Configuration

The EUT is a mobile non-Multilateral transponder Tag Operating as location and monitoring Radio Frequency Identification (RFID) transmitter. The EUT documented in this report is an active mobile transponder operating at 915 MHz frequency band transmitting information to compatible Location and Monitoring Service equipment. The unit operates from direct current power provided from non-user replaceable, rechargeable, button cell battery and provides no provision for alternative power source. The design utilizes an internal fixed antenna system and offers no provision for antenna replacement or modification. The operation of the design utilizes standardized RFID modulation schemes offering the ability to interface and respond with Industry Standard Radio Frequency Identification (RFID) interrogation systems. The test sample was modified from production equipment for testing purposes. The modifications involved the addition of slide switches used to enable the transmitter for testing purposes. The test sample transmits bursts of OOK (On/Off Keyed) modulated signal resembling actual packet data in the test mode. Activation of the switch placed the EUT in a test mode operating the transmitter at a 100% duty cycle. The testing mode of operation exceeds typical duty cycle operation of production equipment. Test results in this report relate only to the products described in this report.

Rogers Labs, a division of The Compatibility Center LLC Transcore

7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A

Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 5 of 24



Equipment Configuration

EUT

Applicable Standards & Test Procedures

In accordance with the Federal Communications Code of Federal Regulations, 47CFR dated May 20, 2024, Part 2 Subpart J, Paragraphs 2.907, 2.911, 2.913, 2.925, 2.926, 2.1031 through 2.1057; 90.201 through 90.217, 90.350 through 90.363 and RSS-137 Issue 2 the following information is submitted. Test procedures used were the established Methods of Measurement of Radio-Noise Emissions as described in ANSI C63.26-2015 and ANSI 63.4-2014.

Rogers Labs, a division of The Compatibility Center LLC Transcore 7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A

Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 6 of 24



Test Procedures

Radiated Emission Procedure

Radiated emissions testing was performed as required in 47CFR, RSS-137, RSS-GEN and specified in ANSI C63.26-2015. The EUT was placed on a rotating 0.9 x 1.2-meter platform, elevated as required above the ground plane at a distance of 3 meters from the FSM antenna. EMI energy was maximized by equipment placement permitting orientation in three orthogonal axes, raising, and lowering the FSM antenna, changing the antenna polarization, and by rotating the turntable. Each emission was maximized before data was taken and recorded. The frequency spectrum from 9 kHz to 10,000 MHz was searched for emissions during preliminary investigation. Refer to diagrams one and two showing typical test setup. Refer to photographs in the test setup exhibits for specific EUT placement during testing.

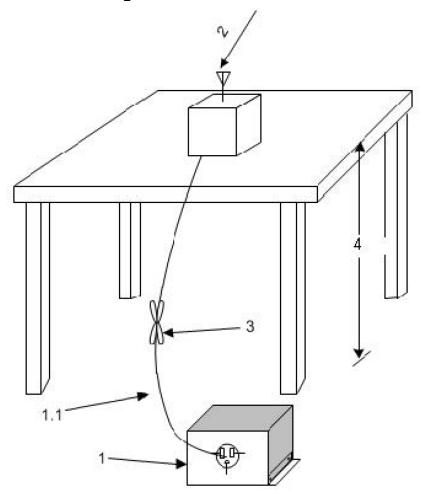
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7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A
Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 7 of 24



Diagram 1 Test arrangement for radiated emissions of tabletop equipment



1—A LISN is optional for radiated measurements between 30 MHz and 1000 MHz but not allowed for measurements

below 30 MHz and above 1000 MHz (see 6.3.1). If used, then connect EUT to one LISN. Unused LISN measuring port

connectors shall be terminated in 50 Ω loads. The LISN may be placed on top of, or immediately beneath, the reference

ground plane (see 6.2.2 and 6.2.3.2).

- 1.1—LISN spaced at least 80 cm from the nearest part of the EUT chassis.
- 2—Antenna can be integral or detachable, depending on the EUT (see 6.3.1).
- 3—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 cm to 40 cm long (see 6.3.1).

- 4—For emission measurements at or below 1 GHz, the table height shall be 80 cm. For emission measurements above
- 1 GHz, the table height shall be 1.5 m for measurements, except as otherwise specified (see 6.3.1 and 6.6.3.1).

Rogers Labs, a division of The Compatibility Center LLC Transcore

7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A

Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

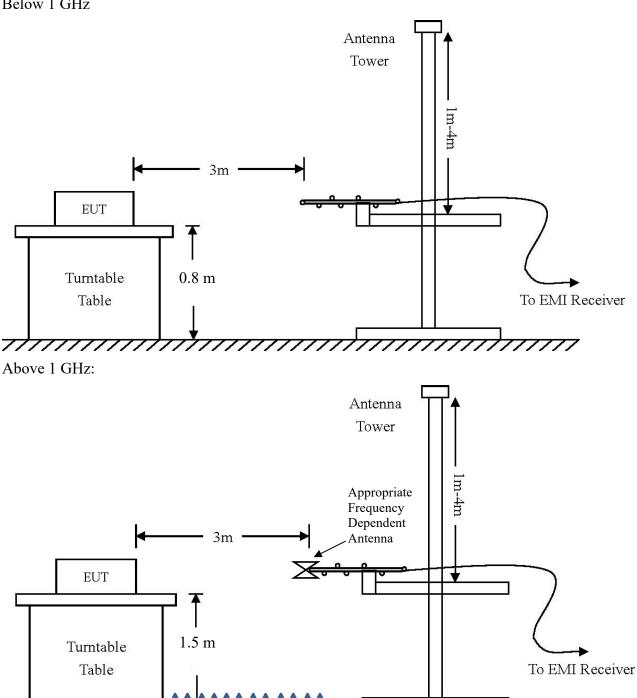
Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 8 of 24



Diagram 2 Test arrangement for radiated emissions tested in Semi-Anechoic Chamber (SAC) and Outdoor Area Test Site (OATS)

Below 1 GHz



Rogers Labs, a division of The Compatibility Center LLC Transcore 7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A

Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 9 of 24 Revision 1



Statement of Modifications and Deviations

No modifications to the EUT or test setup were required during investigation for the equipment to demonstrate compliance with the CFR47, Part 2.1043, applicable parts of Paragraph 90, and RSS-137 requirements. There were no deviations to the specifications.

Environmental Conditions

Ambient Temperature 26.1° C

Relative Humidity 30%

Atmospheric Pressure 976.6 mb

Rogers Labs, a division of The Compatibility Center LLC Transcore 7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A

Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date : June 26, 2024 Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page **10** of **24**



Test Site Location

Radiated EMI The radiated emissions tests were performed at the 3 meters Semi-

Anechoic Chamber (SAC) located at Rogers Labs, a division of The

Compatibility Center LLC, 7915 Nieman Rd., Lenexa, KS or at the 3

meters Outdoor Area Test Site (OATS) in the satellite location.

Registered Site information: FCC Site: US5305, ISED: 3041A, CAB Identifier: US0096

NVLAP Accreditation Lab code 200087-0

Units of Measurements

Radiated EMI Data presented in dBµV/m; dB referenced to one microvolt per meter

Note: The limit is expressed for a measurement in $dB\mu V/m$ when the measurement is taken at a distance of 3 or 10 meters. Data taken for this report was taken at distance of 3 meters. Sample calculation demonstrates corrected field strength reading for Semi-Anechoic Chamber using the measurement reading and correcting for receive antenna factor, cable losses, and amplifier gains.

Sample Calculation:

RFS = Radiated Field Strength, FSM = Field Strength Measured

A.F. = Receive antenna factor, Losses = attenuators/cable losses, Gain = amplification gains

RFS $(dB\mu V/m @ 3m) = FSM (dB\mu V) + A.F. (dB/m) + Losses (dB) - Gain (dB)$

Rogers Labs, a division of The Compatibility Center LLC Transcore

7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 11 of 24



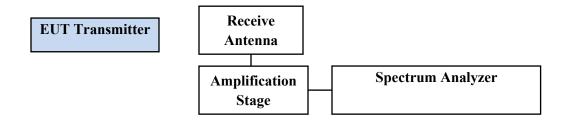
TEST #1 Transmitter Power Output

Measurements Required

Measurements shall be made to establish the radio frequency power delivered by the transmitter into the standard output termination. The power output shall be monitored and recorded, and no adjustment shall be made to the transmitter after the test has begun, except as noted below:

If the power output is adjustable, measurements shall be made for the highest and lowest power levels.

Test Arrangement



The radio frequency power output was measured in the Semi-Anechoic Chamber (SAC). The design offers no provision for connection to antenna port. The substitution method was used to predict the transmitter output power level. The receiver peak detector was used to record the highest emission levels. The EUT was placed on a rotatable platform elevated as required above the ground plane at a distance of 3 meters from the FSM antenna. The platform was rotated though 360 degrees to locate the position registering the highest amplitude emission. The frequency spectrum was searched for maximum emission generated. Emission level was measured and recorded for the maximum amplitude. The EUT transmitter was then removed and replaced with a substitution antenna, which was powered from a signal generator. The output signal from the generator was then adjusted such that the amplitude received was the same as that previously recorded for each frequency. This step was repeated for both horizontal and vertical polarizations. The power in dBm required to produce the desired signal level was then recorded from the signal generator. The power in dBm was then calculated by reducing the previous readings by the gain in the substitution antenna. The testing procedures used conform to the procedures stated in the ANSI C63.26-2015 document. Data was taken per 47CFR Paragraph 2.1046(a) and applicable paragraphs of Part 90 and RSS-137.

Rogers Labs, a division of The Compatibility Center LLC Transcore

7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 12 of 24



Refer to figure one displaying plot of radiated spectral emissions taken in screen room (for reference only).

Measured Power Calculations:

Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

Antenna gain (dBd) = Antenna Gain (dBi) -2.15 dB (referenced to half-wave dipole)

$$Pe = 3.1 - 3.61 + (6.3 \text{ dBi} - 2.15 \text{ dB}) = 3.6 \text{ dBm}$$

 P_{dBm} = power in dB above 1 milliwatt

Milliwatts = $10^{(PdBm/10)}$

Watts = (Milliwatts) (0.001) (W/mW)

Milliwatts = $10^{(3.6/10)}$

= mW

= 0.0023 Watts power

Table 1 Transmitter Power Results

Frequency (MHz)	P_{dBm}	$P_{\rm mw}$	P_{w}
915	3.6	2.3	0.002

The EUT demonstrated compliance with specifications of 47CFR Paragraph 2.1046(a) and applicable Parts of 2 and 90.205 and RSS-137. There are no deviations to the specifications.

Rogers Labs, a division of The Compatibility Center LLC Transcore
7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A

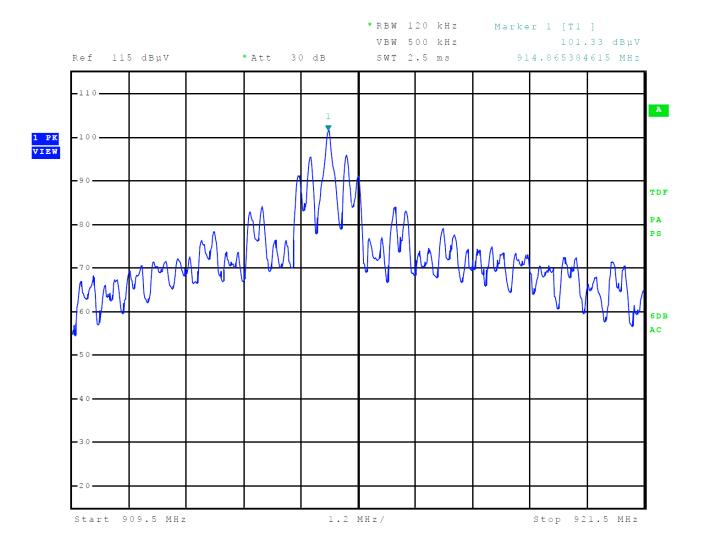
Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 13 of 24



Figure 1 Transmitter Output Across Frequency Band



Rogers Labs, a division of The Compatibility Center LLC Transcore
7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A
Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 14 of 24

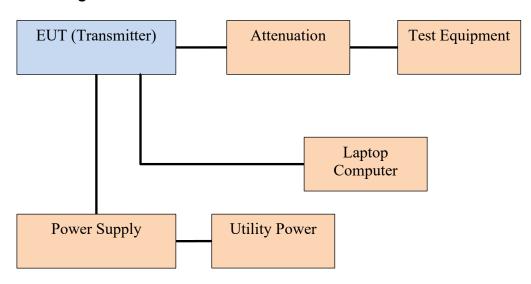


TEST #2 Spurious Emissions

Measurements Required

The radio frequency voltage or power generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. To gain dynamic range in the test equipment, a high pass filter attenuated the fundamental frequency of operation was used to observe the harmonic emissions.

Test Arrangement



The radio frequency output was coupled to a Rohde &Schwarz ESU40 Spectrum Analyzer. The spectrum analyzer was used to observe the radio frequency spectrum with the transmitter operating in its normal modes. The frequency spectrum from 9 kHz to 10 GHz was observed. Data was taken per 47CFR 2.1051 and applicable paragraphs of Part 90 and RSS-137.

Limit: Spurious emissions must be attenuated below the peak output power by at least $55 + 10 \text{ Log } (P_{\circ}) \text{ dB}$.

0.003-watt transmitter limit requires the out of band emissions must be suppressed by at least 29.8 dBc

Attenuation =
$$55 + 10 \text{ Log}_{10}(P_w)$$

= $55 + 10 \text{ Log}_{10} (0.002)$
= 28.0 dBc

Rogers Labs, a division of The Compatibility Center LLC Transcore
7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A
Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 15 of 24



Table 2 Spurious Emissions Results

Channel MHz	Spurious Freq. (MHz)	Measured Level (dBm)	Level Below Carrier (dBc)
915.00	1830.0	-61.0	64.1
	2745.0	-46.0	49.1
	3660.0	-60.2	63.3
	4575.0	-59.2	62.3
	5490.0	-53.7	56.8
	6405.0	-50.3	53.4

Data was taken per 2.1051 and applicable parts of 47CFR 90.210 and RSS-137. The EUT demonstrated compliance with the specifications of Paragraphs 47CFR 2.1051, 2.1057 and 90.210(k) and RSS-137 paragraph 6.5. There are no deviations to the specifications.

Rogers Labs, a division of The Compatibility Center LLC Transcore
7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A

Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date : June 26, 2024 Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page **16** of **24**

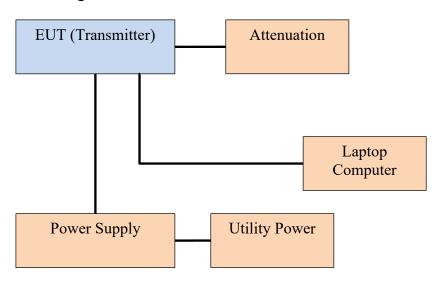


TEST #3 Field Strength of Spurious Radiation

Measurements Required

Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation.

Test Arrangement



Preliminary radiated emissions investigation was made in a screen room to determine frequencies of emissions for investigation in the SAC. The transmitter spurious emissions were measured in the SAC. The EUT was placed on a turntable elevated as required above the ground plane at a distance of 3 meters from the FSM antenna. The turntable was rotated though 360 degrees to locate the position registering the highest amplitude emission. The frequency spectrum was then searched for spurious emissions generated from the transmitter. Raising and lowering the FSM antenna and rotating the turntable to maximize the emission. Data was measured and recorded for the maximum amplitude of each spurious emission. A Loop antenna was used for measuring emissions from 0.009 to 30 MHz, Biconilog Antenna for 30 to 1000 MHz, Double-Ridge, and/or Pyramidal Horn Antennas above 1 GHz. Emissions were measured in dB μ V/m @ 3 meters. The substitution method was used to measure harmonic emissions. Harmonic emission levels from the EUT were measured and amplitude levels were recorded. The EUT transmitter was then removed and replaced with a substitution antenna, which was powered from a signal generator. The output signal from the generator was then adjusted such

Rogers Labs, a division of The Compatibility Center LLC Transcore
7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A
Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 17 of 24



that the amplitude received was the same as that previously recorded for each frequency. This step was repeated for both horizontal and vertical polarizations. The power in dBm required to produce the desired signal level was then recorded from the signal generator. The power in dBm was then calculated by reducing the previous readings by the gain in the substitution antenna.

The limits for the spurious radiated emissions are defined by the following equation.

Limit = Amplitude of the spurious emission must be attenuated by this amount below the level of the fundamental. On any frequency removed from the assigned frequency outside the assigned sub-band edges: at least $55 + 10 \text{ Log } (P_{\circ}) \text{ dB}$.

0.003-watt transmitter limit requires that out of band emissions must be suppressed by at least 29.8 dBc

Attenuation =
$$55 + 10 \text{ Log}_{10}(P_w)$$

= $55 + 10 \text{ Log}_{10} (0.002)$
= 28.0 dBc

Data was taken per 2.1053 and applicable parts of 47CFR 90. The EUT demonstrated compliance with the specifications of Paragraphs 47CFR 2.1053, 2.1057 and 90.210(k) and RSS-137 paragraph 6.5. There are no deviations to the specifications.

Rogers Labs, a division of The Compatibility Center LLC Transcore
7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A
Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 18 of 24



Table 3 Field Strength of Spurious Radiation Results (Horizontal)

Frequency MHz	Peak dBµV/m	Q.P. dBµV/m	TT Deg	Tower	Q.P dBm	Limit (29.8dBc)	Pass/Fail
30.4	33.3	25.6	50	270	-73.2	-25.7	PASS
158.7	29.9	24.8	295	220	-74.0	-25.7	PASS
868.9	40.8	32.4	86	382	-66.5	-25.7	PASS
969.3	41.7	34.0	260	380	-64.8	-25.7	PASS

Table 4 Field Strength of Spurious Radiation Results (Vertical)

Frequency MHz	Peak dBµV/m	Q.P. dBµV/m	TT Deg	Tower cm	Q.P dBm	Limit (29.8dBc)	Pass/Fail
31.0	22.9	15.2	25	385	-83.6	-25.7	PASS
94.1	25.8	23.2	65	145	-75.6	-25.7	PASS
94.8	27.3	24.5	61	141	-74.4	-25.7	PASS
95.7	27.3	25.7	25	106	-73.2	-25.7	PASS
158.7	28.7	28.0	215	174	-70.8	-25.7	PASS
997.3	32.6	23.9	83	390	-74.9	-25.7	PASS

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7915 Nieman Road HVIN : 051168 PMN : 051168 SN: N/A

Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date : June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 rl Page 19 of 24



Annex

- Annex A Measurement Uncertainty Calculations
- Annex B Test Equipment
- Annex C Laboratory Certificate of Accreditation

Rogers Labs, a division of The Compatibility Center LLC Transcore
7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A
Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 20 of 24



Annex A Measurement Uncertainty Calculations

The measurement uncertainty was calculated for all measurements listed in this test report according To CISPR 16–4. Result of measurement uncertainty calculations are recorded below. Component and process variability of production devices similar to those tested may result in additional deviations. The manufacturer has the sole responsibility of continued compliance.

Measurement	Expanded Measurement Uncertainty $U_{(lab)}$
3 Meter Horizontal 0.009-1000 MHz Measurements	4.16
3 Meter Vertical 0.009-1000 MHz Measurements	4.33
3 Meter Measurements 1-18 GHz	5.46
3 Meter Measurements 18-40 GHz	5.16
10 Meter Horizontal Measurements 0.009-1000 MHz	4.15
10 Meter Vertical Measurements 0.009-1000 MHz	4.32
AC Line Conducted	1.75
Antenna Port Conducted power	1.17
Frequency Stability	1.00E-11
Temperature	1.6°C
Humidity	3%

Rogers Labs, a division of The Compatibility Center LLC Transcore
7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A
Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 21 of 24



Annex B Test Equipment

$\sqrt{}$	Equipment	Manufacturer	Model (SN)	Band	Last Cal Date	Next Cal Due
	LISN	Fischer Custom Communications	FCC-LISN-50-25-10(1PA) (160611)	.15-30MHz	3/25/2024	3/25/2025
	LISN	Fischer Custom Communications	FCC-LISN-50-16-2-08		3/25/2024	3/25/2025
	Cable	Huber & Suhner Inc.	Sucoflex102ea(L10M)(303073)	9kHz-40Ghz	9/26/2023	9/26/2024
V	Cable	Huber & Suhner Inc.	Sucoflex102ea(1.5M)(303069)	9kHz-40Ghz	9/26/2023	9/26/2024
	Cable	Huber & Suhner Inc.	Sucoflex102ea(1.5M)(303070)	9kHz-40Ghz	9/26/2023	9/26/2024
	Cable	Belden	RG-58 (L1-CAT3-11509)	9kHz-30 MHz	9/26/2023	9/26/2024
	Cable	Belden	RG-58 (L2-CAT3-11509)	9kHz-30 MHz	9/26/2023	9/26/2024
	Antenna	Com Power	AL-130 (121055)	.001-30 MHz	9/26/2023	9/26/2024
	Antenna	EMCO	6509	.001-30 MHz	10/11/2022	10/11/2024
V	Antenna	ARA	BCD-235-B (169)	20-350MHz	9/26/2023	9/26/2024
V	Antenna	Sunol	JB-6 (A100709)	30-1000 MHz	11/8/2023	11/8/2024
V	Antenna	ETS-Lindgren	3147 (40582)	200-1000MHz	9/26/2023	10/11/2024
1	Antenna	ETS-Lindgren	3117 (200389)	1-18 GHz	3/25/2024	3/25/2026
	Antenna	Com Power	AH-118 (10110)	1-18 GHz	10/11/2022	10/11/2024
	Antenna	Com Power	AH-1840 (101046)	18-40 GHz	3/27/2023	3/27/2025
1	Analyzer	Rohde & Schwarz	ESU40 (100108)	20Hz-40GHz	6/26/2023	6/26/2024
	Analyzer	Rohde & Schwarz	ESW44 (101534)	20Hz-44GHz	1/26/2024	1/26/2025
	Analyzer	Rohde & Schwarz	FS-Z60, 90, 140, and 220	40GHz-220GHz	12/22/2017	12/22/2027
	Amplifier	Com-Power	PA-010 (171003)	100Hz-30MHz	9/26/2023	9/26/2024
	Amplifier	Com-Power	CPPA-102 (01254)	1-1000 MHz	9/26/2023	9/26/2024
V	Amplifier	Com-Power	PAM-118A (551014)	0.5-18 GHz	9/26/2023	9/26/2024
	Amplifier	Com-Power	PAM-840A (461328)	18-40 GHz	9/26/2023	9/26/2024
	Pwr Sensor	Rohde & Schwarz	NRP33T	0.05-33 GHz	9/26/2023	9/26/2025
	Power meter	Agilent	N1911A with N1921A	0.05-40 GHz	3/28/2023	3/28/2025
	Generator	Rohde & Schwarz	SMB100A6 (100150)	20Hz-6 GHz	3/25/2024	3/25/2025
	Generator	Rohde & Schwarz	SMBV100A6 (260771)	20Hz-6 GHz	3/25/2024	3/25/2025
1	RF Filter	Micro-Tronics	BRC50722 (009).9G notch	30-18000 MHz	3/25/2024	3/25/2025
	RF Filter	Micro-Tronics	HPM50114 (017)1.5G HPF	30-18000 MHz	3/25/2024	3/25/2025
	RF Filter	Micro-Tronics	HPM50117 (063) 3G HPF	30-18000 MHz	3/25/2024	3/25/2025
	RF Filter	Micro-Tronics	HPM50105 (059) 6G HPF	30-18000 MHz	3/25/2024	3/25/2025
	RF Filter	Micro-Tronics	BRM50702 (172) 2G notch	30-18000 MHz	3/25/2024	3/25/2025
	RF Filter	Micro-Tronics	BRC50703 (G102) 5G notch	30-18000 MHz	3/25/2024	3/25/2025
	RF Filter	Micro-Tronics	BRC50705 (024) 5G notch	30-18000 MHz	3/25/2024	3/25/2025
	Attenuator	Fairview	SA6NFNF100W-40 (1625)	30-18000 MHz	3/25/2024	3/25/2025
	Attenuator	Mini-Circuits	VAT-3W2+ (1436)	30-6000 MHz	3/25/2024	3/25/2025
	Attenuator	Mini-Circuits	VAT-3W2+ (1445)	30-6000 MHz	3/25/2024	3/25/2025
	Attenuator	Mini-Circuits	VAT-3W2+ (1735)	30-6000 MHz	3/25/2024	3/25/2025
	Attenuator	Mini-Circuits	VAT-6W2+ (1438)	30-6000 MHz	3/25/2024	3/25/2025
	Attenuator	Mini-Circuits	VAT-6W2+ (1736)	30-6000 MHz	3/25/2024	3/25/2025

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7915 Nieman Road HVIN : 051168 PMN : 051168 SN: N/A

Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date : June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 22 of 24



$\sqrt{}$	Equipment	Manufacturer	Model (SN)	Band	Last Cal Date	Next Cal Due
1	Weather station	Davis	6152 (A70927D44N)	N/A	7/13/2022	7/14/2024
	Frequency Counter	Leader	LDC-825	??	3/28/2023	3/28/2025
	ISN	Com-Power	ISN T-8 (600111)	??	3/25/2024	3/25/2025
	LISN	Compliance Design	FCC-LISN-2.Mod.cd,(126)	.15-30MHz	9/26/2023	10/11/2024
	LISN	Com-Power	LI-220A	??	3/29/2023	3/29/2025
	LISN	Com-Power	LI-550C	??	9/26/2023	10/11/2024
$\sqrt{}$	Cable	Huber & Suhner Inc.	Sucoflex102ea(1.5M)(303072) 9kHz- 40 GHz	9kHz-40Ghz	9/26/2023	9/26/2024
	Cable	Huber & Suhner Inc.	Sucoflex102ea(L1M)(281183) 9kHz- 40 GHz	9kHz-40Ghz	9/26/2023	9/26/2024
V	Cable	Huber & Suhner Inc.	Sucoflex102ea(L4M)(281184) 9kHz- 40 GHz	9kHz-40Ghz	9/26/2023	9/26/2024
	Cable	Huber & Suhner Inc.	Sucoflex102ea(L10M)(317546)9kHz- 40 GHz	9kHz-40Ghz	9/26/2023	9/26/2024
	Cable	Time Microwave	4M-750HF290-750 (4M)	9kHz-24 GHz	9/26/2023	9/26/2024
	RF Filter	Micro-Tronics	BRC17663 (001)	9.3-9.5 notch 30- 1800 MHz	3/28/2023	3/28/2025
	RF Filter	Micro-Tronics	BRC19565 (001)	9.2-9.6 notch 30- 1800 MHz	3/28/2023	3/28/2025
	Analyzer	HP	8562A (3051A05950)	9kHz-125GHz	3/25/2024	3/25/2025
	Wave Form Generator	Keysight	33512B (MY57400128)	??	3/29/2022	3/25/2026
	Antenna	Solar	9229-1 & 9230-1	??	2/18/2023	2/18/2024
	CDN	Com-Power	CDN325E		10/11/2022	10/11/2024
	Oscilloscope Scope	Tektronix	MDO 4104	??	2/18/2023	2/18/2024
	EMC Transient Generator HVT	EMC?	TR3000		2/18/2023	2/18/2024
	AC Power Source	Ametech / California Instruments	??	N/A	2/18/2023	2/18/2024
	Field Intensity Meter	??	EFM-018	??	2/18/2023	2/18/2024
	ESD Simulator	??	MZ-15	N/A	2/18/2023	2/18/2024
	Cable	Mini-Circuits	KBL-2M-LOW+ (23090329)	9kHz-40Ghz	3/25/2024	3/25/2025

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Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 26, 2024

Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 23 of 24



Annex C Laboratory Certificate of Accreditation

3/18/24 through 3/31/25:

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200087-0

Rogers Labs, a division of The Compatibility Center LLC Lenexa. KS

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Electromagnetic Compatibility & Telecommunications

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2024-03-18 through 2025-03-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program

3/16/23 through 3/31/24:

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200087-0

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2023-03-16 through 2024-03-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program

Rogers Labs, a division of The Compatibility Center LLC Transcore

7915 Nieman Road HVIN: 051168 PMN: 051168 SN: N/A

Lenexa, KS 66214 Test: 240501 FCC ID: FIH051168 IC: 1584A-051168

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Revision 1 File: Transcore Dual-Micro Toronto Tag C2PC 240501 r1 Page 24 of 24