

***Rogers Labs, a division of The Compatibility Center LLC***

7915 Nieman Rd.

Lenexa, KS 66214

Phone / Fax (913) 660-0666

# Engineering Test Report

## Application for Grant of Certification

### 47CFR Part 90 and Industry Canada RSS-137

### Location and Monitoring Service Transmitter

### PMN: E5, E6 HVIN: E6V3

FCC ID: FIHE6PT90V3

IC: 1584A-E6RSS137V3

902.25-903.75 and 910.00-921.50 MHz

## Transcore

Amtech Technology Center

8600 Jefferson Street, NE

Albuquerque, NM 87113

Mr. Dale Scott

FCC Designation: US5305

ISED Registration: 3041A-1

Test Report Number: 250602

Test Date: June 2, 2025 – July 30, 2025

Authorized Signatory: 

Patrick Powell

Rogers Labs, a division of The Compatibility Center LLC

7915 Nieman Rd.

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7915 Nieman Road HVIN: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602 FCC ID: FIHE6PT90V3

Phone/Fax: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

TransCore

IC: 1584A-E6RSS137V3

Date: September 20, 2025

Page 1 of 64

<b>TABLE OF CONTENTS.....</b>	<b>2</b>
<b>REVISION HISTORY .....</b>	<b>5</b>
<b>EXECUTIVE SUMMARY .....</b>	<b>6</b>
<b>SUMMARY.....</b>	<b>6</b>
<b>ATTESTATIONS.....</b>	<b>6</b>
<b>APPLICABLE STANDARDS AND TEST PROCEDURES .....</b>	<b>7</b>
<b>OPINION / INTERPRETATION OF RESULTS .....</b>	<b>7</b>
<b>EQUIPMENT UNDER TEST .....</b>	<b>8</b>
Equipment Function and Configuration .....	8
Equipment Configuration .....	9
<b>APPLICATION FOR CERTIFICATION.....</b>	<b>10</b>
<b>UNITS OF MEASUREMENTS .....</b>	<b>13</b>
<b>TEST SITE LOCATIONS .....</b>	<b>13</b>
<b>ENVIRONMENTAL CONDITIONS.....</b>	<b>13</b>
<b>TEST #1 TRANSMITTER POWER OUTPUT .....</b>	<b>14</b>
Measurements Required .....	14
Test Arrangement Output Power.....	14
Table 1 Transmitter Power Results.....	15
Figure 1 Transmitter Output Across Frequency Band CW (ATA) High Power Level.....	16
Figure 2 Transmitter Output Across Frequency Band CW (ATA) Lowest Power Level .....	17
Figure 3 Transmitter Output Across Frequency Band eGo .....	18
Figure 4 Transmitter Output Across Frequency Band SeGo .....	19
Figure 5 Transmitter Output Across Frequency Band CVSN .....	20

Figure 6 Transmitter Output Across Frequency Band IAG.....	21
Figure 7 Transmitter Output Across Frequency Band Title 21 .....	22
Figure 8 Transmitter Output Across Frequency Band 6C/EPC .....	23
<b>TEST #2 MODULATION CHARACTERISTICS.....</b>	<b>24</b>
Measurements Required .....	24
Test Arrangement.....	24
<b>TEST #3 OCCUPIED BANDWIDTH .....</b>	<b>25</b>
Measurements Required .....	25
Test Arrangement.....	25
Table 2 Occupied Bandwidth Results .....	26
Figure 9 Occupied Bandwidth CW (ATA) .....	27
Figure 10 Occupied Bandwidth eGo .....	28
Figure 11 Occupied Bandwidth SeGo .....	29
Figure 12 Occupied Bandwidth CVSN .....	30
Figure 13 Occupied Bandwidth IAG.....	31
Figure 14 Occupied Bandwidth Title 21 .....	32
Figure 15 Occupied Bandwidth 6C/EPC .....	33
<b>TEST #4 SPURIOUS EMISSIONS .....</b>	<b>34</b>
Measurements Required .....	34
Test Arrangement.....	34
Table 3 Spurious Emissions Results CW (ATA) (Maximum Power).....	35
Table 4 Spurious Emissions Results CW (ATA) (Minimum Power).....	36
Table 5 Spurious Emissions Results eGo .....	37
Table 6 Spurious Emissions Results SeGo.....	38
Table 7 Spurious Emissions Results CVSN .....	39

<b>Table 8 Spurious Emissions Results IAG .....</b>	<b>40</b>
<b>Table 9 Spurious Emissions Results Title 21 .....</b>	<b>41</b>
<b>Table 10 Spurious Emissions Results 6C/EPC .....</b>	<b>42</b>
<b>TEST #5 EMISSION MASK .....</b>	<b>43</b>
<b>Measurements Required .....</b>	<b>43</b>
<b>Test Arrangement .....</b>	<b>44</b>
Figure 16 Emissions Mask ATA High Power (902.25-903.75 MHz Band).....	45
Figure 17 Emissions Mask ATA High Power (910.00-921.75 MHz Band).....	46
Figure 18 Emissions Mask ATA Low Power (902.25-903.75 MHz Band) .....	47
Figure 19 Emissions Mask ATA Low Power (910.00-921.75 MHz Band) .....	48
Figure 20 Emissions Mask eGo .....	49
Figure 21 Emissions Mask SeGo .....	50
Figure 22 Emissions Mask CVSN .....	51
Figure 23 Emissions Mask IAG .....	52
Figure 24 Emissions Mask Title 21 .....	53
Figure 25 Emissions Mask 6C/EPC .....	54
<b>TEST #6 FIELD STRENGTH OF SPURIOUS RADIATION.....</b>	<b>55</b>
<b>Measurements Required .....</b>	<b>55</b>
<b>Test Arrangement .....</b>	<b>55</b>
<b>Table 11 General Radiated Emissions Data – Worst Case.....</b>	<b>57</b>
<b>TEST #7 FREQUENCY STABILITY .....</b>	<b>58</b>
<b>Measurements Required .....</b>	<b>58</b>
<b>Test Arrangement .....</b>	<b>58</b>
<b>Table 12 Frequency Stability vs. Temperature Results.....</b>	<b>59</b>
<b>Table 13 Frequency Stability vs. Input Power Supply Voltage Results .....</b>	<b>59</b>
<b>ANNEX.....</b>	<b>60</b>
<b>Annex A Measurement Uncertainty Calculations .....</b>	<b>61</b>

<b>Annex B Test Equipment List.....</b>	<b>62</b>
<b>Annex C Laboratory Certificate of Accreditation .....</b>	<b>64</b>

## Revision History

Revision 1 Issued August 8, 2025 – Initial release.

Revision 2 Issued August 15, 2025 – incorporated customer review points.

Revision 3 Issued September 17, 2025 – incorporated TCB review findings.

Revision 2 Issued September 20, 2025 – Fixed EPC/6C band limits in several places.

## Executive Summary

The following information is submitted for consideration in obtaining Equipment Grant of Certification for Licensed Intelligent Transportation Systems Radio Service, Location and Monitoring Services (LMS) governed under 47CFR Paragraph 90 (M) and Innovation, Science and Economic Development (ISED) RSS-137 issue 2.

## Summary

- ☒ The device fulfills the general approval requirements of the referenced standards identified in this test report and requested by the customer.

Name of Applicant: Transcore  
Amtech Technology Center 8600 Jefferson Street, NE  
Albuquerque, NM 87113  
Phone: (505) 856-8000

Product Marketing Name (PMN:) E5, E6 HVIN: E6V3

FCC ID: FIHE6PT90V3 IC: 1584A-E6RSS137V3

Frequency of Operation: 902.25-903.75, 910.00-921.50 MHz

Transmit Power: 2.0 Watts max 0.059 Watts minimum, occupied bandwidth CW minimum 109.5 kHz, and maximum 1,921.3 kHz

## Attestations

This equipment has been tested in accordance with the standards identified in this report and determined in compliance with the referenced requirements and regulations. To the best of my knowledge all testing was performed using the measurement procedures identified in this report. All instrumentation used during compliance testing is calibrated and remains in a calibrated state in accordance with ISO 17025:2017 requirements. Further, I attest that all necessary measurements were completed at Rogers Labs, a division of The Compatibility Center LLC

Rogers Labs, a division of The Compatibility Center LLC  
7915 Nieman Rd  
Lenexa, KS 66214



Patrick Powell  
Date: July 25, 2025

## Applicable Standards and Test Procedures

In accordance with the Federal Communications Code of Federal Regulations, 47CFR dated May 11, 2023, 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.

## Opinion / Interpretation of Results

Test Number	Measurement	FCC Rule	Pass/Fail
#1	Power Measurement	47CFR paragraphs 2.1046 90.205, RSS-137, Issue 2	Pass
#2	Modulation Characteristics	47CFR paragraphs 2.1049, 2.1051, 90.207, 90.209, RSS-137	Pass
#3	Occupied Bandwidth, Conducted Emissions Mask and Spurious Emissions	47CFR paragraphs 2.1049, 2.1051, 90.207, 90.209, RSS-137	Pass
#4	Spurious Emissions	47CFR 2.1051, 2.1053, 47CFR paragraphs 90.209 and RSS-137	Pass
#5	Emission Mask	47CFR 2.1051, 90.210, RSS-137	Pass
#6	Spurious Emissions	47CFR 2.1051, 2.1053, 47CFR paragraphs 90.209 and RSS-137	Pass
#7	Frequency Stability	47CFR 2.1055, 90.213, RSS-137	Pass

## Equipment Under Test

<u>Equipment</u>	<u>HVIN</u>	<u>Serial Number</u>
EUT	E6V3	20374184
AC power box	Manufacturer provided	
Computer	Dell PP02X	16KM171

Test results in this report relate only to the items tested

Software Version: 19125.99.03

The software provides ability to adjust power from 33 dBm to 18 dBm in 1 dB steps. The power level of the design is 2.0 watts (33 dBm) for authorized LMS operation in the 902-928 MHz band operating specifically in the 902.25-903.75 and 910.00-921.50 MHz frequency band.

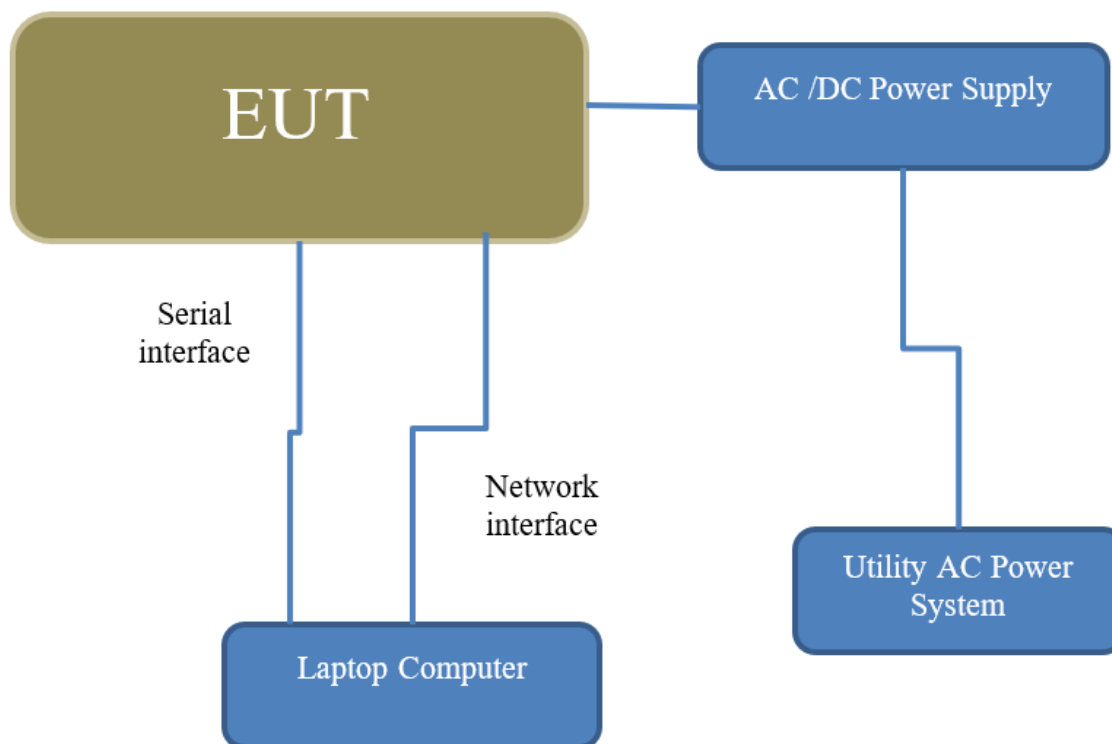
### ***Equipment Function and Configuration***

The EUT is a fixed Non-Multilateral transmitter operating under the Intelligent Transportation Systems Radio Service as Location and Monitoring Services (LMS). The E5, E6 Interrogator operates and functions as an Encompass Reader. The E in the Product Marketing Name stands for Encompass and the 5 and 6 are define the color of the reader housing. All Electronics are electrically identical. Operation of the design utilizes industry standardized modulation schemes offering the ability to interface and respond with Industry Radio Frequency Identification Device (RFID) interrogation systems. The system operates over input power range of 19-30 V<sub>dc</sub>, or 19-27 V<sub>ac</sub> rms, 2.5 amps and provides serial and network interface connections for communications. The manufacturer provided software which allowed testing personnel operational control of the transmitter for testing purposes. The test samples were loaded with manufacturer software Version 19125.99.03. The EUT was arranged as described by the manufacturer emulating typical use configurations for testing purposes. The EUT offers no other interface connections than those documented in the configuration options presented. The EUT functions as an active interrogator operating in the 902.25-903.75 and 910.00-921.50 MHz LMS frequency band. During testing all interface connections were appropriately terminated. As requested by the manufacturer and required by regulations, the equipment was tested for emissions compliance using the available



configurations with the worst-case data presented. Test results in this report relate only to the products described in this report.

### ***Equipment Configuration***



## Application for Certification

1. Manufacturer: Transcore  
Amtech Technology Center  
8600 Jefferson Street, NE  
Albuquerque, NM 87113
2. Identification: **HVIN: E6V3**      **FCC ID: FIHE6PT90V3**      **IC: 1584A-E6RSS137V3**
3. A copy of the installation and operating instructions furnished to the end user. Refer to the instruction manual furnished with this application for details.
4. Emission Types: Modulated in width/duration/data – L1D

Frequency (MHz)	Operational Mode	Emission Designator
902.25-903.75	CW (ATA)	110KN0N
910.00-921.50	CW (ATA)	110KN0N
912.00-919.5	EPC/6C	624KL1D
911.75-919.75	eGo	355KL1D
911.75-919.75	SeGo	512KL1D
914.75-916.75	ASTM/CVSN	1M92L1D
914.75-916.75	IAG	539KL1D
912.75-918.75	Title 21	932KL1D

5. Frequency Range: 902.25-903.75, 910.00-921.50 MHz
6. Range of operating power values or specific operating power levels, and description of any means provided for variation of operating power. 2.0-0.059 watts (33-18 dBm), installation selectable in 1 dB step attenuation from 33dBm.
7. Maximum power rating as defined in the applicable part(s) of the rules. As stated in 47CFR, 90.205(k) the maximum permissible output power allowed is 30 watts.
8. The dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range. The maximum operating mode runs at 11.5 volts consuming 1 amp.
9. Provide the tune-up procedure over the power range, or at specific operating power levels. Refer to the tune-up procedure furnished with this application for details.
10. A schematic diagram and a description of all circuitry and devices provided for determining and stabilizing frequency, for suppression of spurious radiation, for limiting modulation, and for limiting power. Refer to the schematics and technical exhibits furnished with this application for details.
11. A photograph or drawing of the equipment identification plate, or label showing the information to be placed thereon shall be provided. Refer to the identification label exhibit and information furnished with this application for details.

12. Photographs (8" x 10") of the equipment of sufficient clarity to reveal equipment construction and layout, including meters, if any, and labels for controls and meters and sufficient views of the internal construction to define component placement and chassis assembly. Insofar as these requirements are met by photographs or drawings contained in instruction manuals supplied with the certification request, additional photographs are necessary only to complete the required showing. Refer to the exhibits of this report and or additional information furnished with the application for details.
13. For equipment employing digital modulation techniques, a detailed description of the modulation system to be used, including the response characteristics (frequency, phase, and amplitude) of any filters provided, and a description of the modulating wave train, shall be submitted for the maximum rated conditions under which the equipment will be operated. Information about modulation is contained in Operational description exhibit.
14. The data required by Sections 2.1046 through 2.1057, inclusive, measured in accordance with the procedures set out in Section 2.1041.
15. The application for certification of an external radio frequency power amplifier under Part 97 of this chapter need not be accompanied by the data required by Paragraph (b)(14) of this section. In lieu thereof, measurements shall be submitted to show compliance with the technical specifications in Subpart C of Part 97 of this chapter and such information as required by Section 2.1060 of this part. This paragraph does not apply to this equipment.
16. An application for certification of an AM broadcast stereophonic exciter generator intended for interfacing with existing certified, or formerly type accepted or notified transmitters must include measurements made on a complete stereophonic transmitter. The instruction book must include complete specifications and circuit requirements for interconnecting with existing transmitters. The instruction book must also provide a full description of the equipment and measurement procedures to monitor modulation and to verify that the combination of stereo exciter generator and transmitter meets the emission limitations of section 73.44. This paragraph does not apply to this equipment.
17. Applications for certification required by § 25.129 of this chapter shall include any additional equipment test data required by that section. This does not apply to this equipment.
18. The device is not a software-defined radio and requirements of 2.944 do not apply to this application.
19. Applications for certification of equipment operating under part 27 of this chapter, that a manufacturer is seeking to certify for operation in the:
  - (i) 1755-1780 MHz, 2155-2180 MHz, or both bands shall include a statement indicating compliance with the pairing of 1710-1780 and 2110-2180 MHz specified in §§27.5(h) and 27.75 of this chapter.
  - (ii) 1695-1710 MHz, 1755-1780 MHz, or both bands shall include a statement indicating compliance with §27.77 of this chapter.
  - (iii) 600 MHz band shall include a statement indicating compliance with §27.75 of this chapter.

20. Applications for certification of equipment operating under part 90 of this chapter and capable of operating on the 700 MHz interoperability channels (See §90.531(b)(1) of this chapter) shall include a Compliance Assessment Program Supplier's Declaration of Conformity and Summary Test Report or, alternatively, shall include a document detailing how the applicant determined that its equipment complies with §90.548 of this chapter and that the equipment is interoperable across vendors.
21. Contain at least one drawing or photograph showing the test set-up for each of the required types of tests applicable to the device for which certification is requested. These drawings or photographs must show enough detail to confirm other information contained in the test report. Any photographs used must be focused originals without glare or dark spots and must clearly show the test configuration used.

## Units of Measurements

Conducted EMI      Data presented in dBμV; dB referenced to one microvolt

Antenna port Conducted      Data is in dBm; dB referenced to one milliwatt

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

Note: Radiated limit may be expressed for measurement in dBμV/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 Open Area Test Site 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

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

## Test Site Locations

Conducted EMI      AC line conducted emissions testing performed in a shielded screen room located at Rogers Labs, a division of The Compatibility Center LLC, 7915 Nieman Rd., Lenexa, KS (or satellite 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

## Environmental Conditions

Ambient Temperature      22.4° C

Relative Humidity      52%

Atmospheric Pressure      1008.4 mb

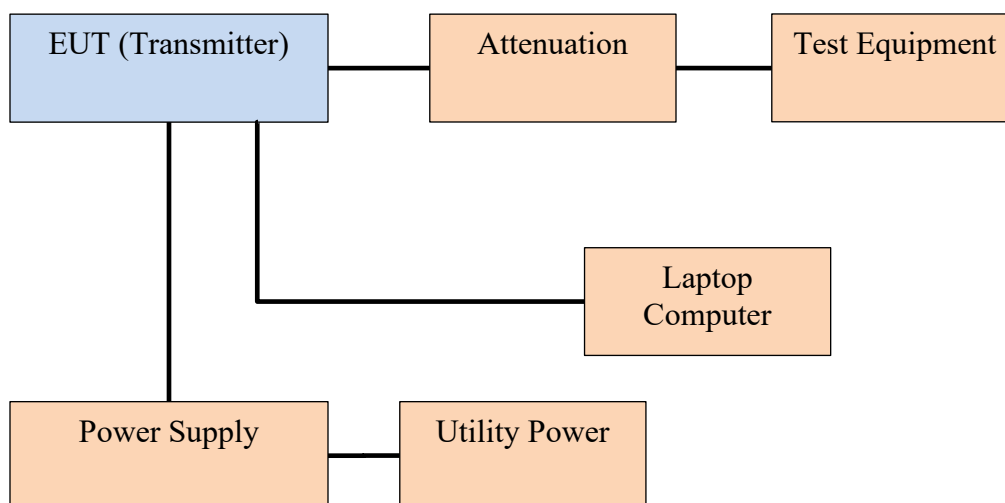
## TEST #1 Transmitter Power Output

### 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 Output Power



The radio frequency power output was measured at the antenna terminal by placing appropriate attenuation on the antenna port connector and observing the spectral emissions with the spectrum analyzer. The spectrum analyzer and attenuation offered an impedance of  $50\Omega$  to match the impedance of the standard antenna. A Rohde & Schwarz NRP33T Power Meter was used to measure the radio frequency power at the antenna port. Data was taken in dBm and converted to watts as shown in the following table. Refer to Figures 1 through 8 showing plots of output power of the transmitter across the frequency band. 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.

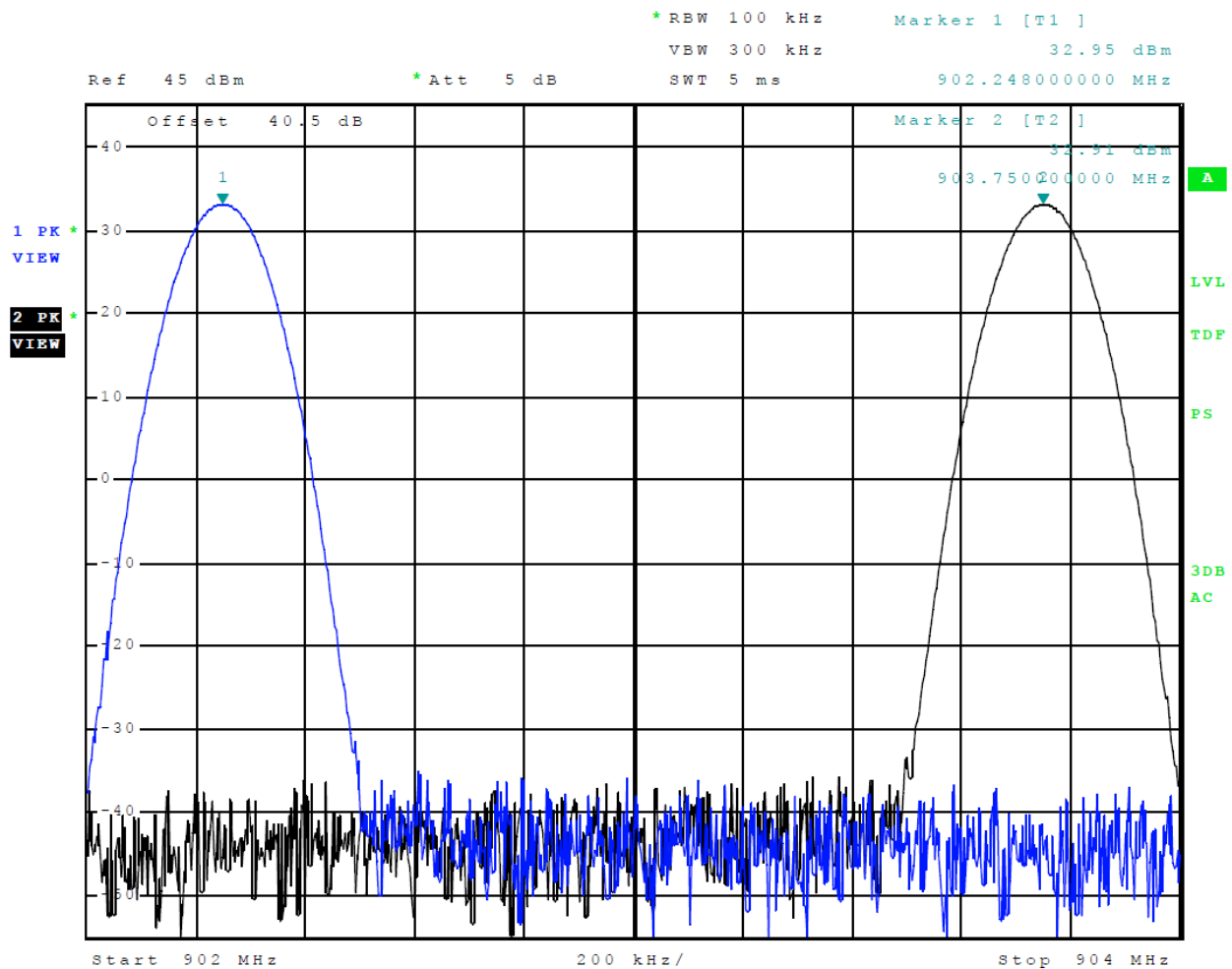
$P_{dBm}$  = power in dB above 1 milliwatt  
 $\text{Milliwatts} = 10^{(P_{dBm}/10)}$   
 $\text{Watts} = (\text{Milliwatts})(0.001)(\text{W/mW})$   
 $\text{Milliwatts} = 10^{(33.14/10)}$   
 $= 2,060.6 \text{ mW}$   
 $= 2.061 \text{ Watts power}$

**Table 1 Transmitter Power Results**

Frequency (MHz)	$P_{dBm}$	$P_{mw}$	$P_w$
ATA (Maximum)	33.14	2,060.6	2.061
ATA (Minimum)	18.28	67.3	0.067
eGo (Maximum)	33.09	2,037.0	2.037
SeGo (Maximum)	33.04	2013.7	2.014
CVSN (Maximum)	33.09	2037.0	2.037
IAG (Maximum)	33.09	2037.0	2.037
Title 21 (Maximum)	33.02	2004.5	2.004
6C/EPC (Maximum)	33.05	2018.4	2.018

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.

**Figure 1 Transmitter Output Across Frequency Band CW (ATA) High Power Level**



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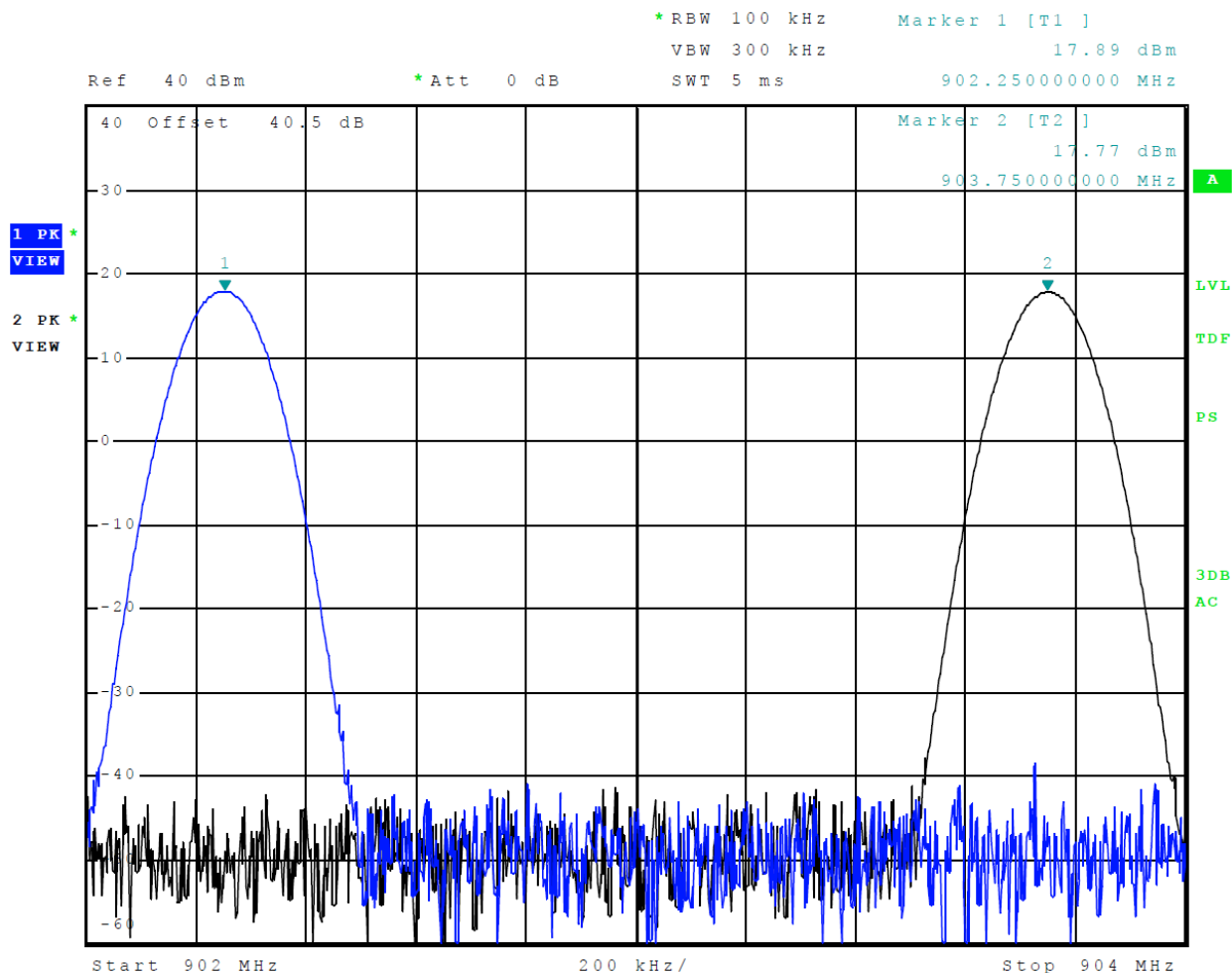
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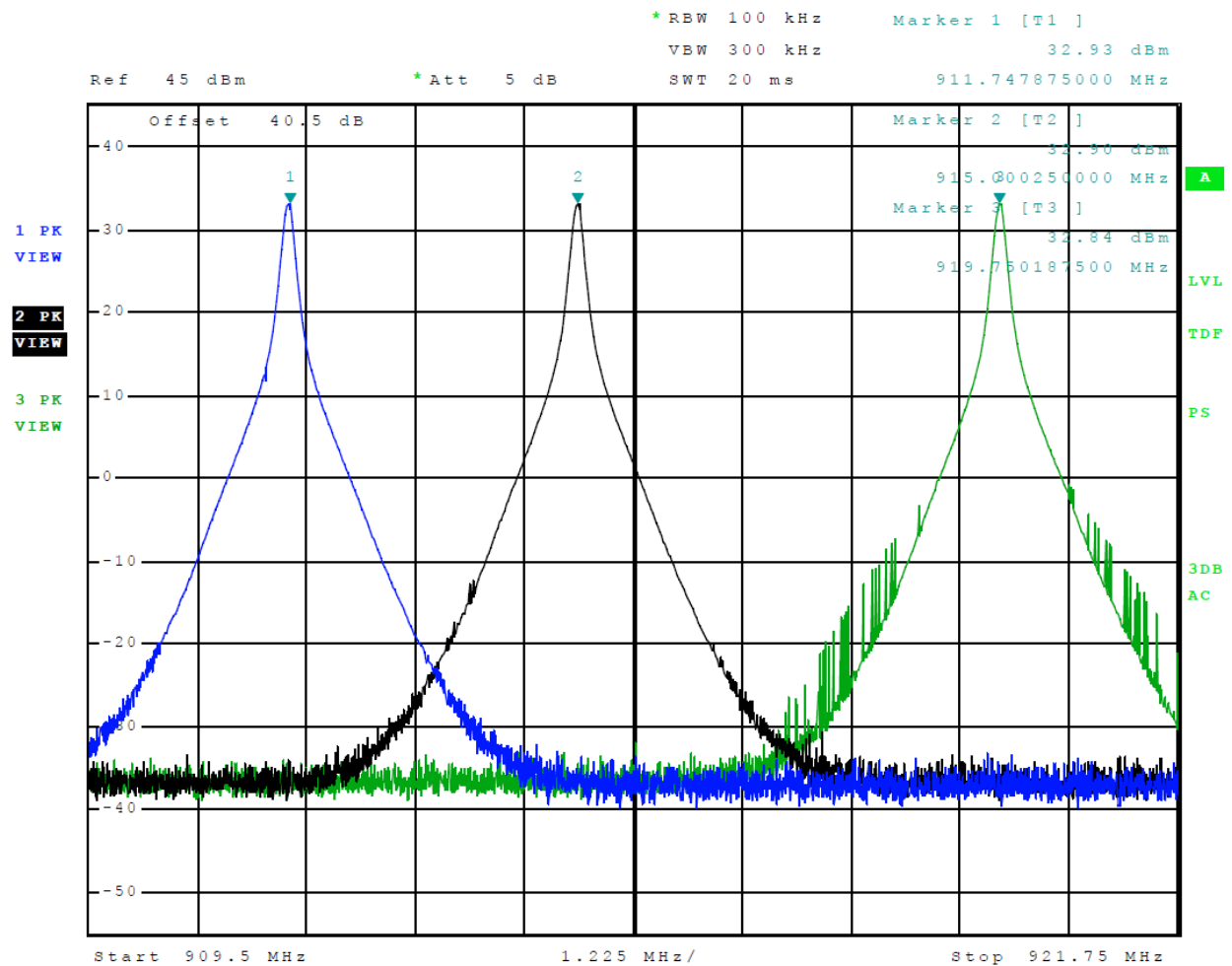
Page 16 of 64



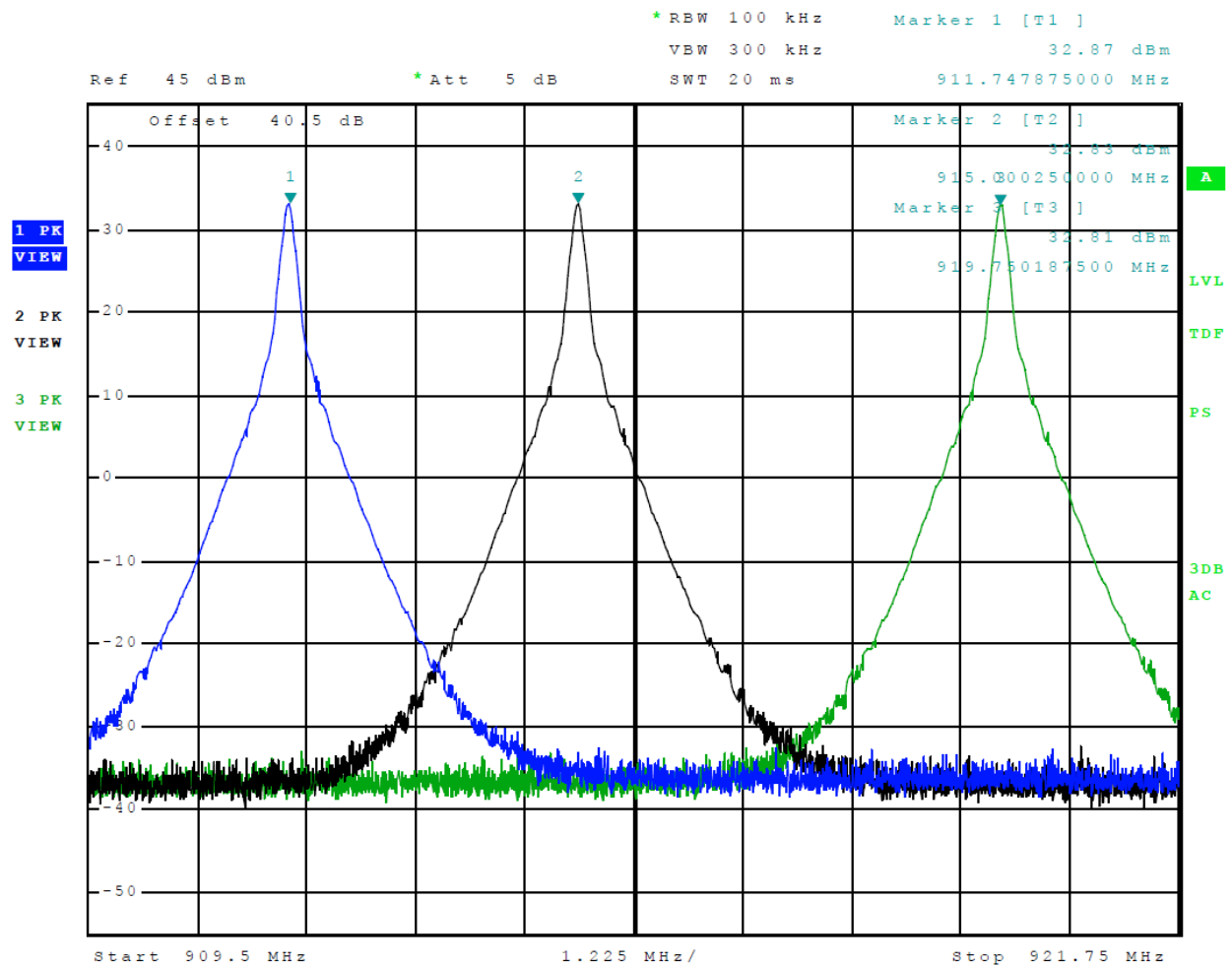
**Figure 2 Transmitter Output Across Frequency Band CW (ATA) Lowest Power Level**



**Figure 3 Transmitter Output Across Frequency Band eGo**



**Figure 4 Transmitter Output Across Frequency Band SeGo**



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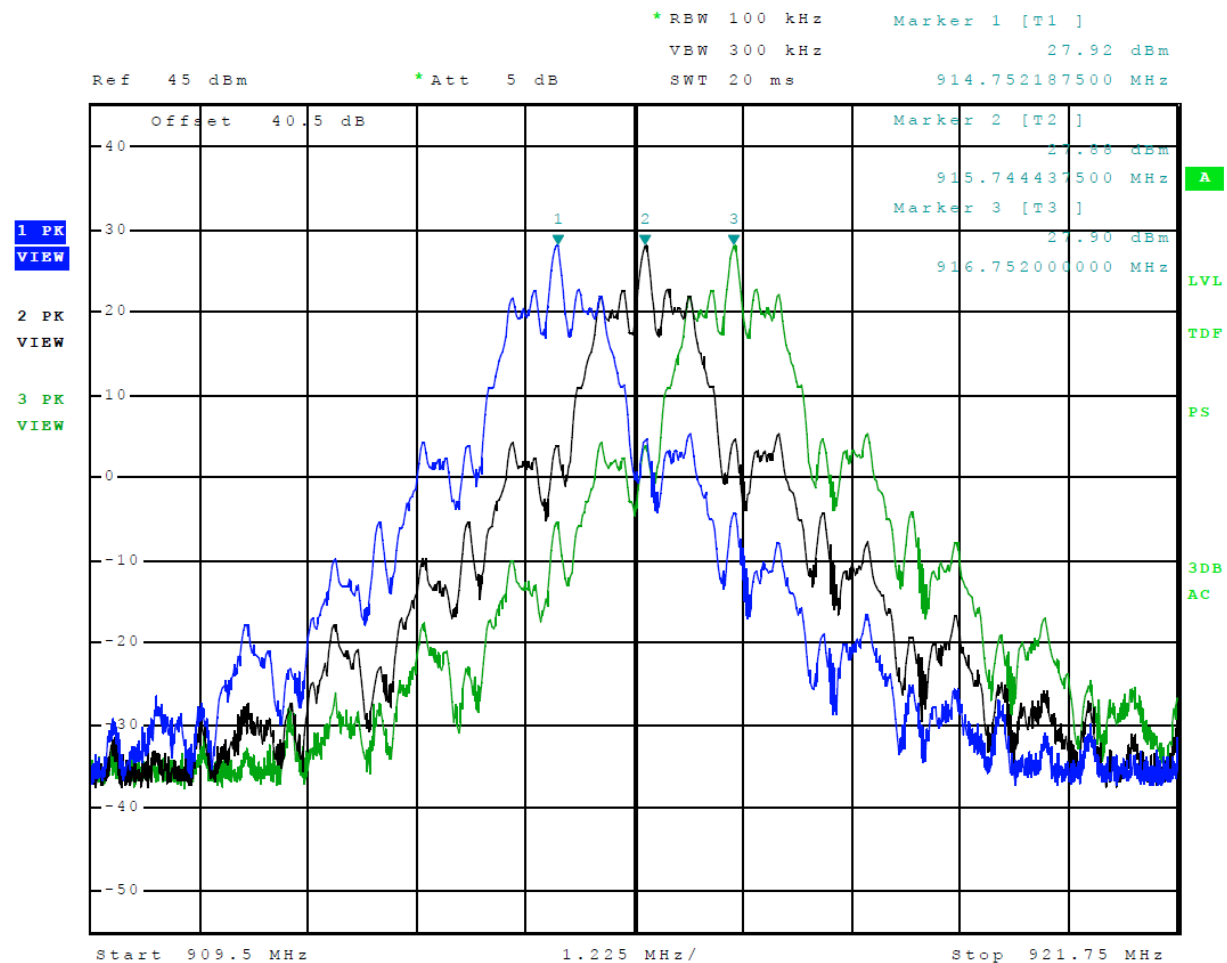
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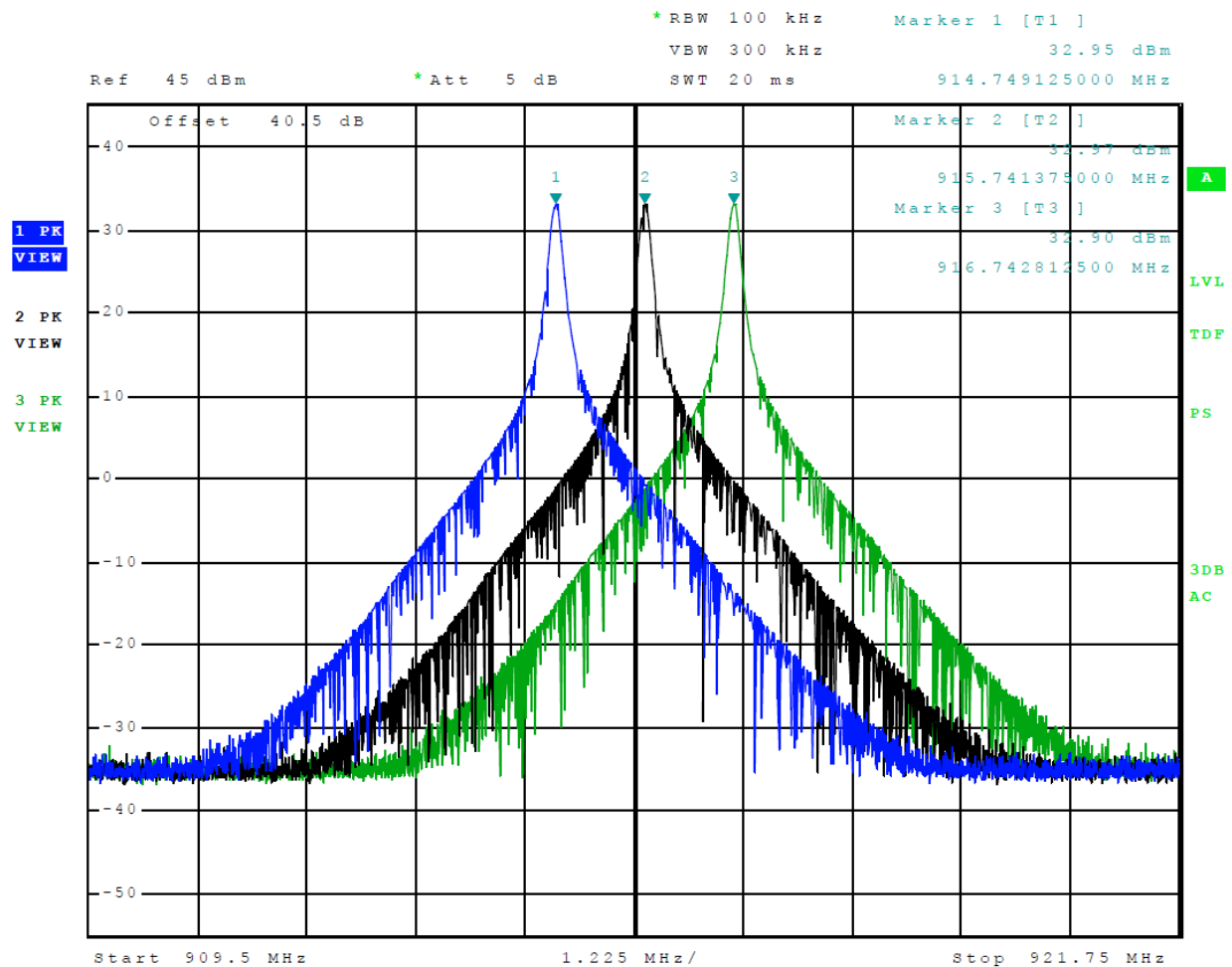
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Page 19 of 64

**Figure 5 Transmitter Output Across Frequency Band CVS**



**Figure 6 Transmitter Output Across Frequency Band IAG**



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Revision 4

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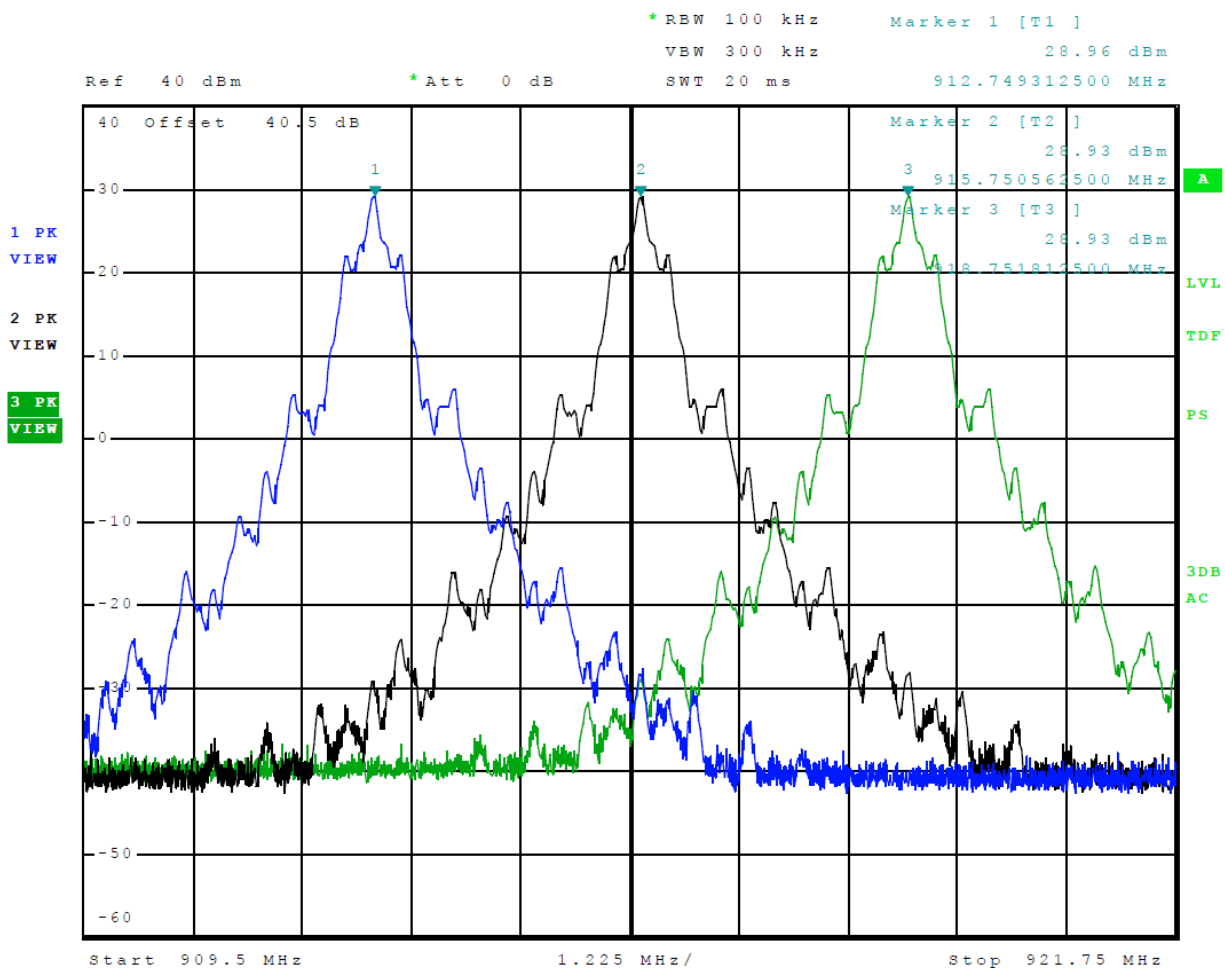
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IC: 1584A-E6RSS137V3

Date: September 20, 2025

Page 21 of 64

**Figure 7 Transmitter Output Across Frequency Band Title 21**



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Revision 4

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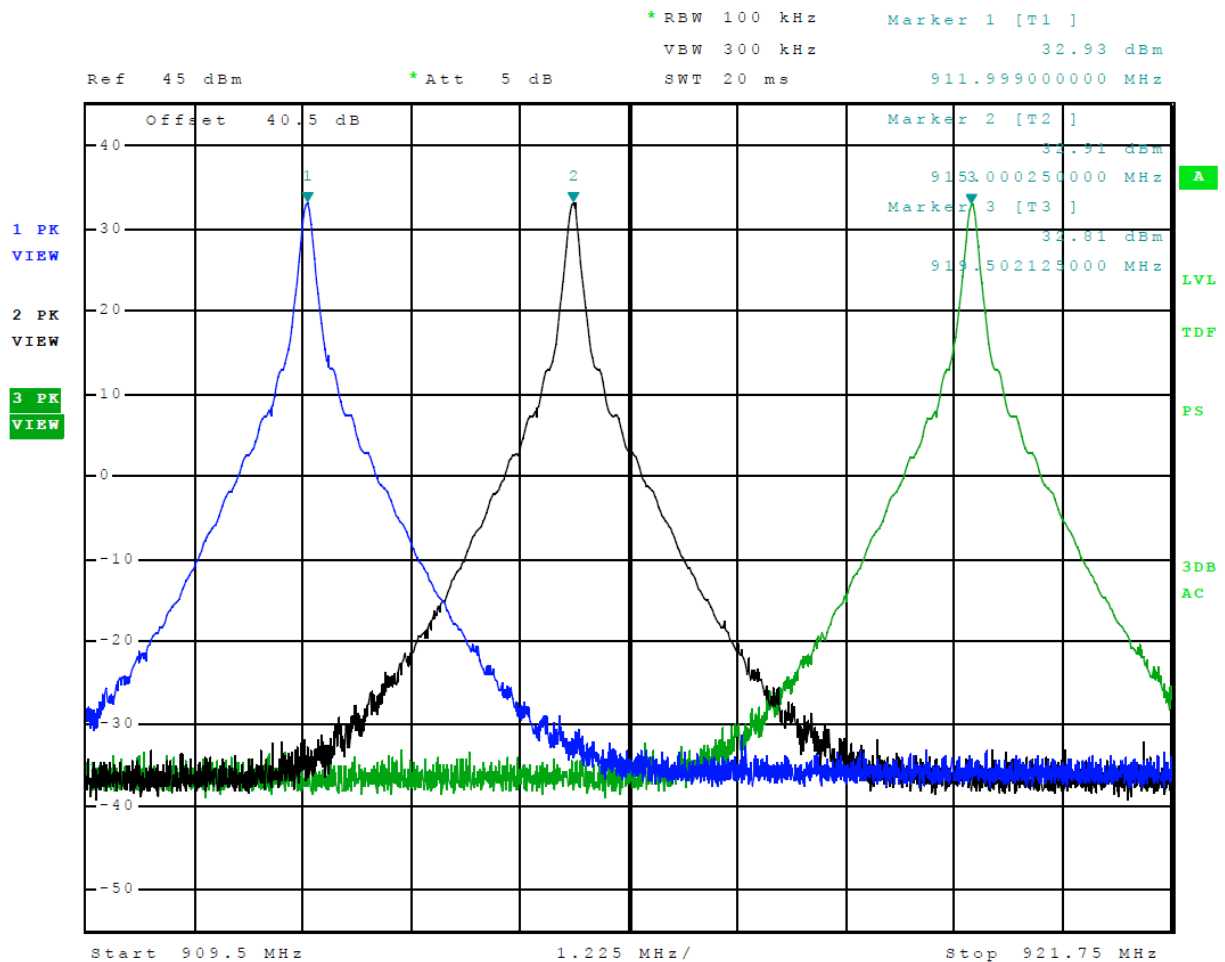
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IC: 1584A-E6RSS137V3

Date: September 20, 2025

Page 22 of 64

**Figure 8 Transmitter Output Across Frequency Band 6C/EPC**



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Revision 4

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IC: 1584A-E6RSS137V3

Date: September 20, 2025

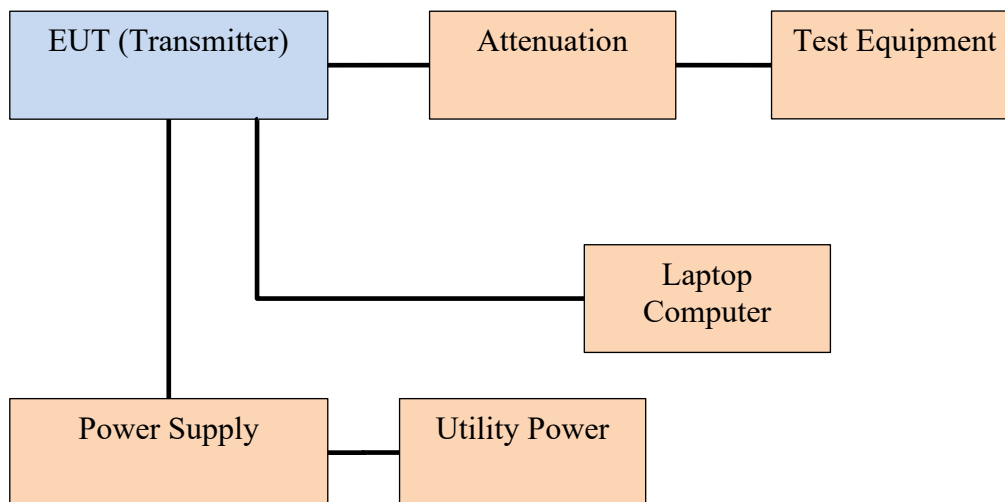
Page 23 of 64

## TEST #2 Modulation Characteristics

### Measurements Required

A curve or equivalent data that shows that the equipment will meet the modulation requirements of the rules under which the equipment is to be licensed shall be submitted.

### 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 mode.

The transmitter operates as licensed LMS equipment providing operation in two modes, Continuous Wave (CW) and digital data transmitted signals modulated in amplitude/width/duration. The EUT demonstrated compliance with the specifications of Paragraphs 2.1046(a), 90.205 and RSS-137. There are no deviations to the specifications.

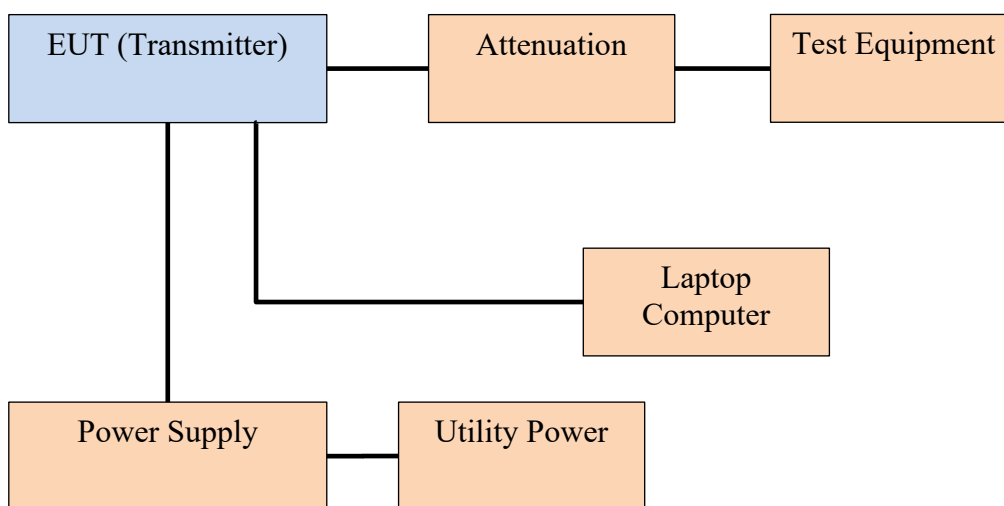


## TEST #3 Occupied Bandwidth

### Measurements Required

The occupied bandwidth, which is the frequency bandwidth such that below its lower and above its upper frequency limits, the mean powers radiated are equal to 0.5 percent of the total mean power radiated by a given emission. Refer to figures 9 through 15 displaying plots of the occupied bandwidth measurement.

### Test Arrangement

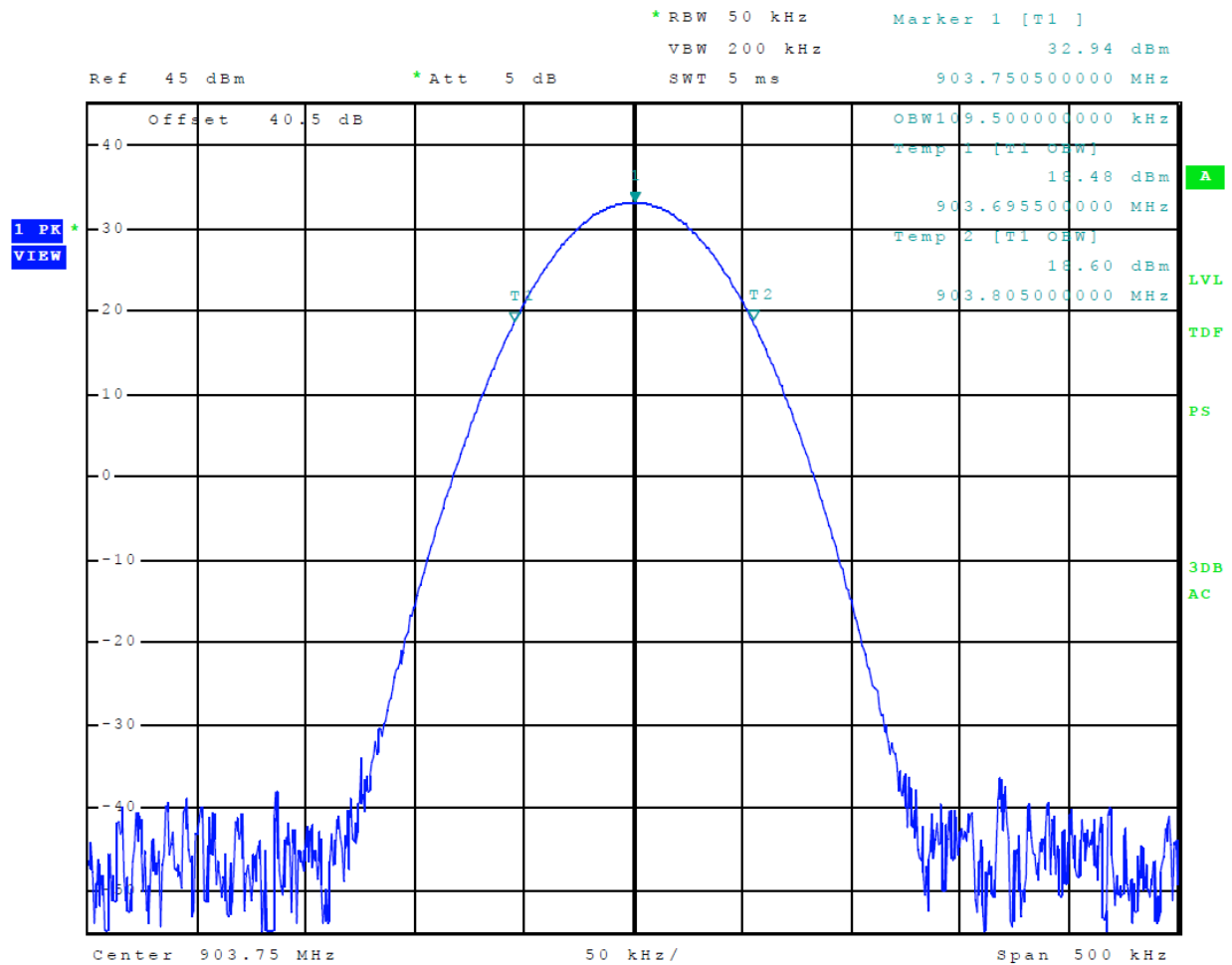


**Table 2 Occupied Bandwidth Results**

Operational mode	Operational Frequency Band (MHz)	99% Occupied Bandwidth (kHz)
ATA	902.25-903.75	109.5
ATA	910.00-921.50	109.5
EPC/6C	912.00-918.50	624.0
eGo	911.75-919.75	354.5
SeGo	911.75-919.75	511.9
CVSN	914.75-916.75	1,921.3
IAG	914.75-916.75	538.5
Title 21	912.75-918.75	932.3

The EUT demonstrated compliance with the requirements of Paragraphs 2.1046(a) 90.209 and RSS-137 paragraph 6.1.2. There are no deviations to the specifications.

**Figure 9 Occupied Bandwidth CW (ATA)**



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TransCore

7915 Nieman Road      HVIN: E6V3      PMN: E5, E6      SN: 20374184

Lenexa, KS 66214      Test: 250602      FCC ID: FIHE6PT90V3

IC: 1584A-E6RSS137V3

Phone/Fax: (913) 660-0666      Test to: 47CFR Parts 2, 90 and RSS-137

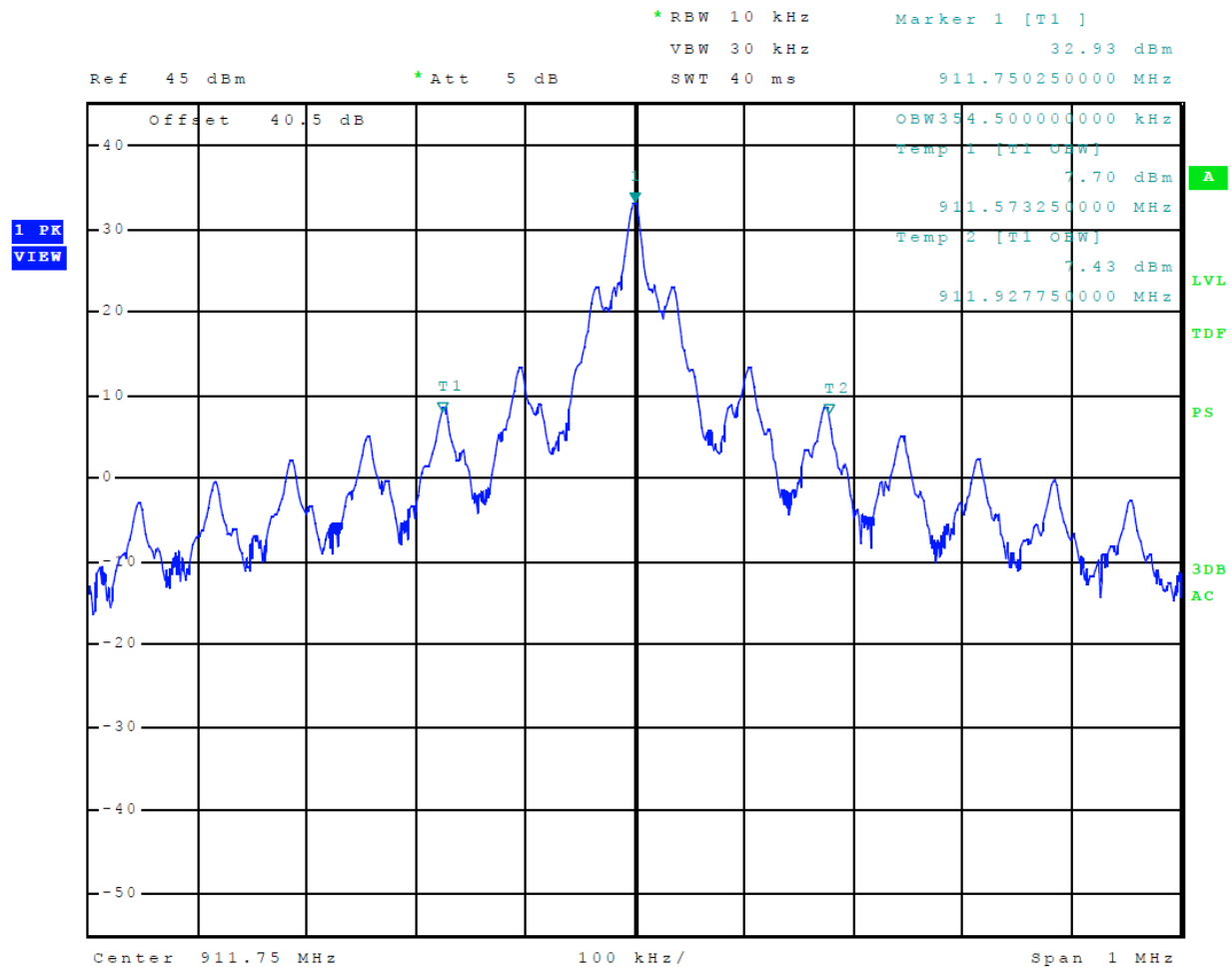
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File: Transcore E6V3 TstRpt 250602 r4

Page 27 of 64

**Figure 10 Occupied Bandwidth eGo**



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7915 Nieman Road HVIN: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602 FCC ID: FIHE6PT90V3

Phone/Fax: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137

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File: Transcore E6V3 TstRpt 250602 r4

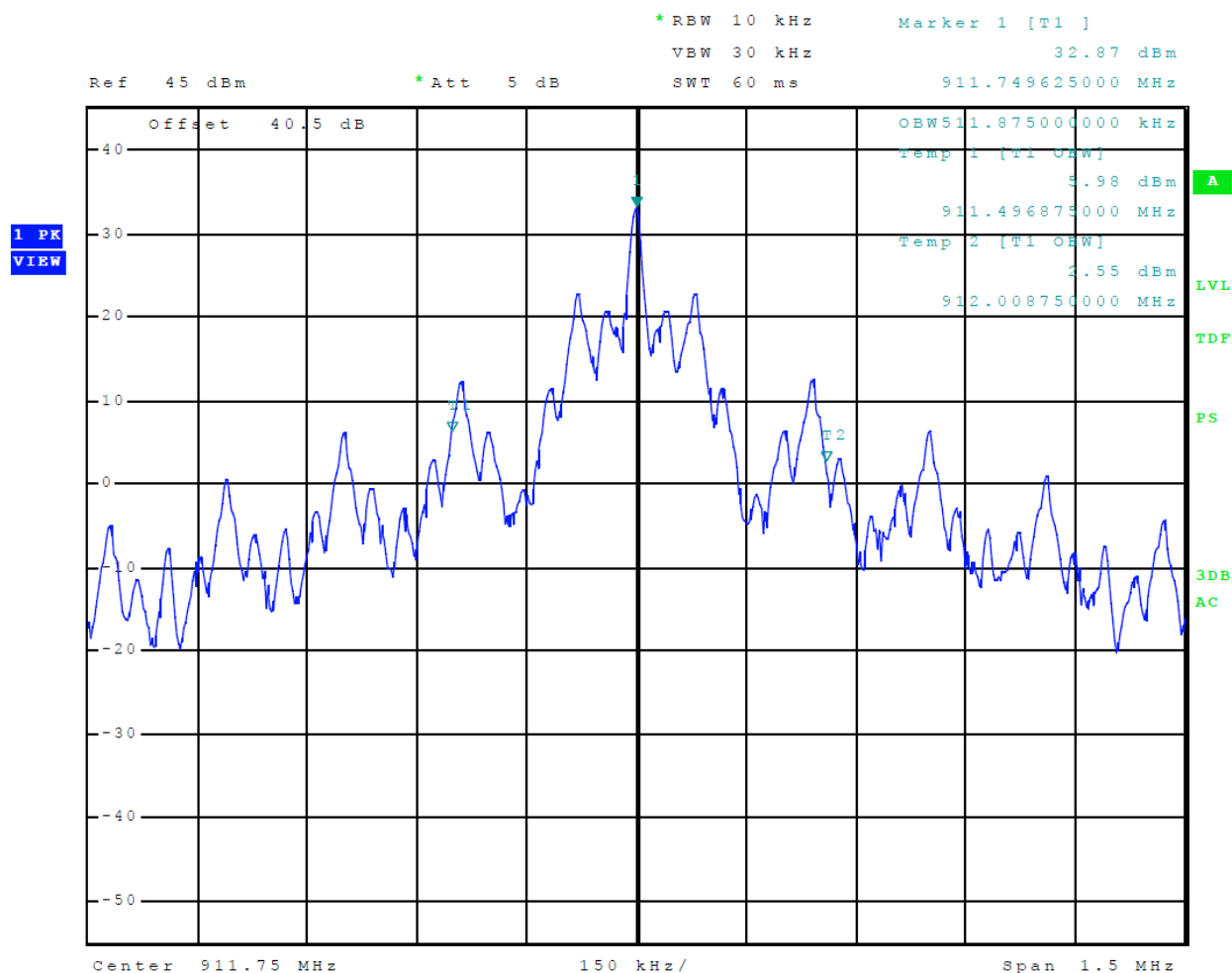
TransCore

IC: 1584A-E6RSS137V3

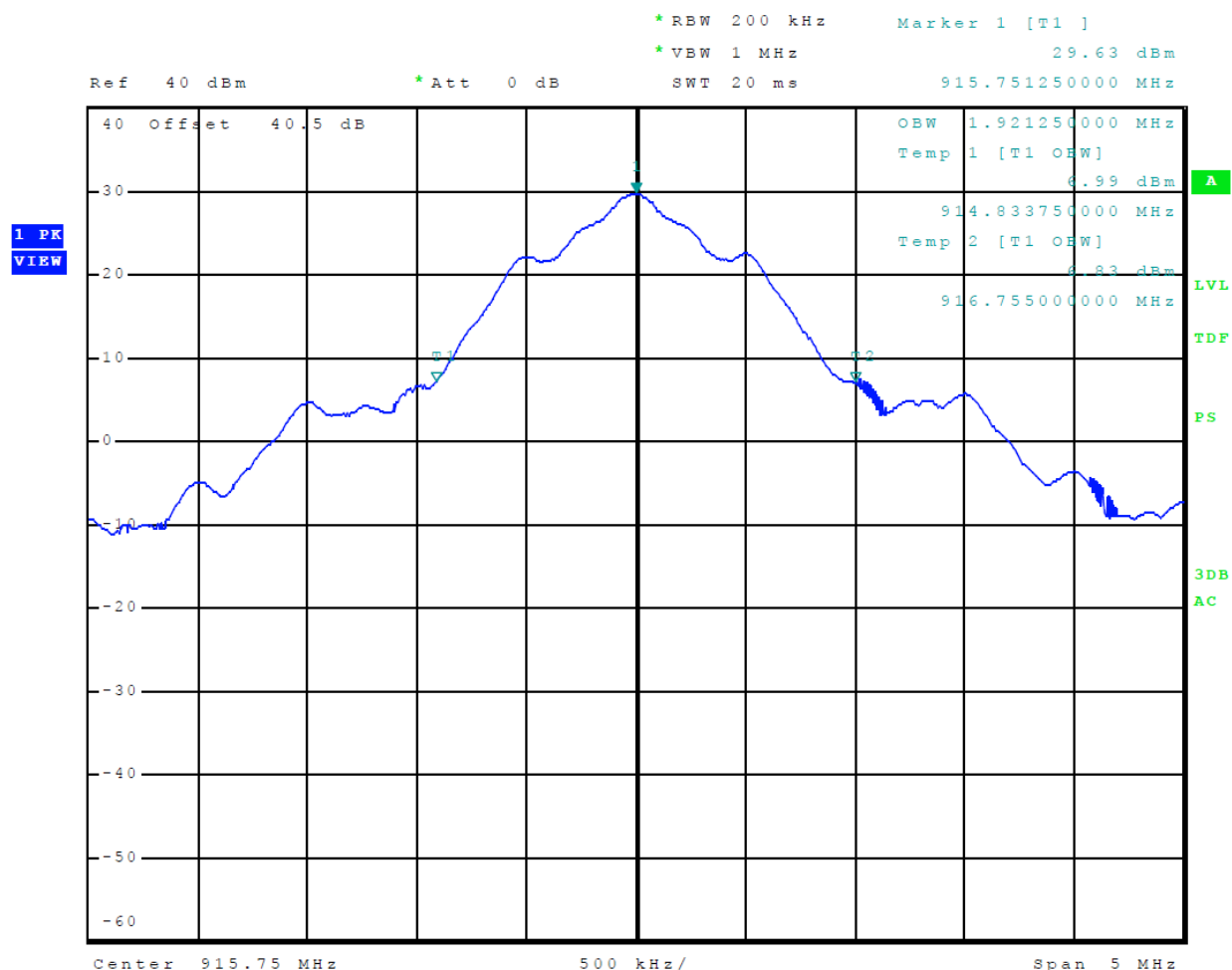
Date: September 20, 2025

Page 28 of 64

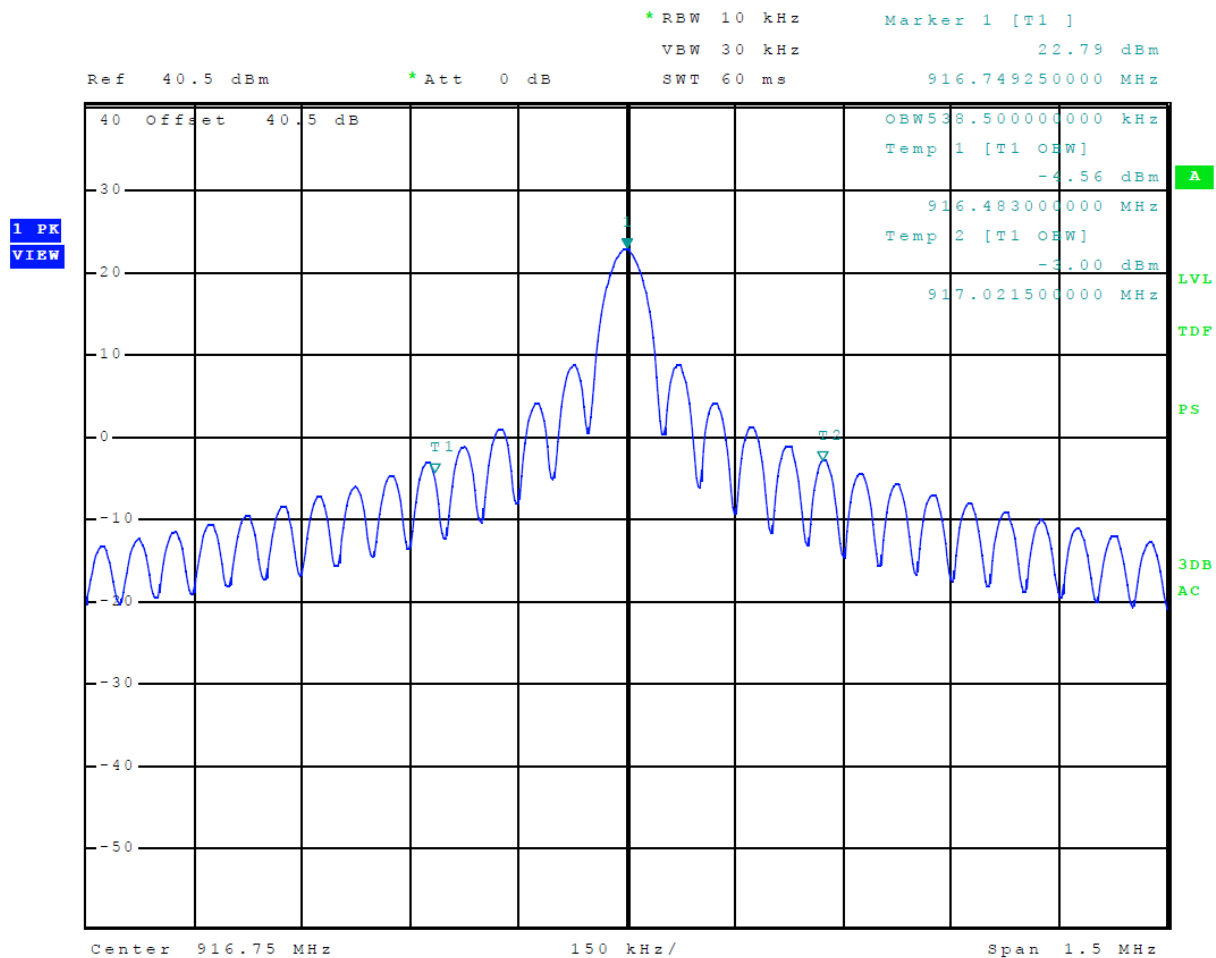
**Figure 11 Occupied Bandwidth SeGo**



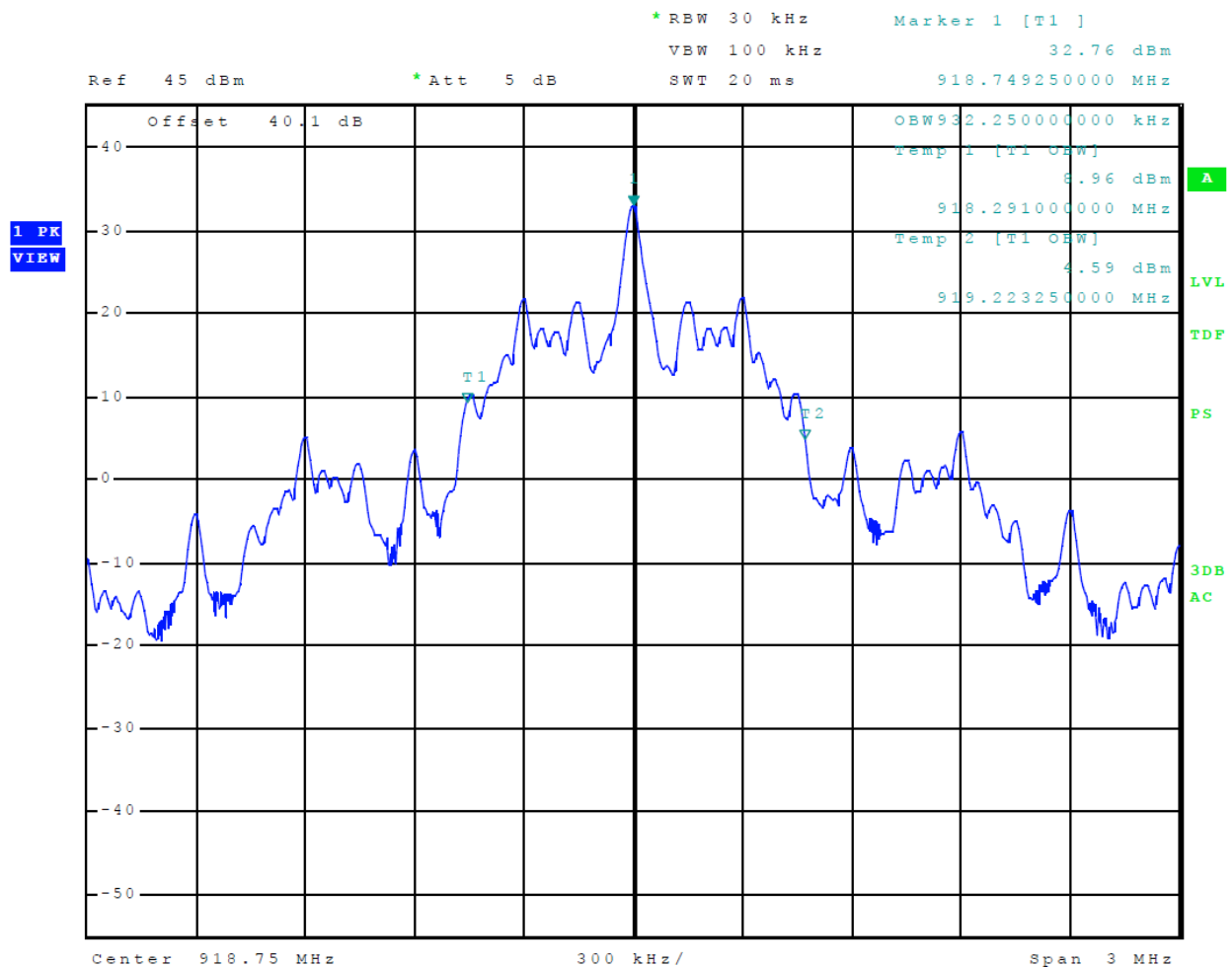
**Figure 12 Occupied Bandwidth CVS**



**Figure 13 Occupied Bandwidth IAG**



**Figure 14 Occupied Bandwidth Title 21**



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7915 Nieman Road      HVIN: E6V3      PMN: E5, E6      SN: 20374184

Lenexa, KS 66214      Test: 250602      FCC ID: FIHE6PT90V3

Phone/Fax: (913) 660-0666      Test to: 47CFR Parts 2, 90 and RSS-137

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

TransCore

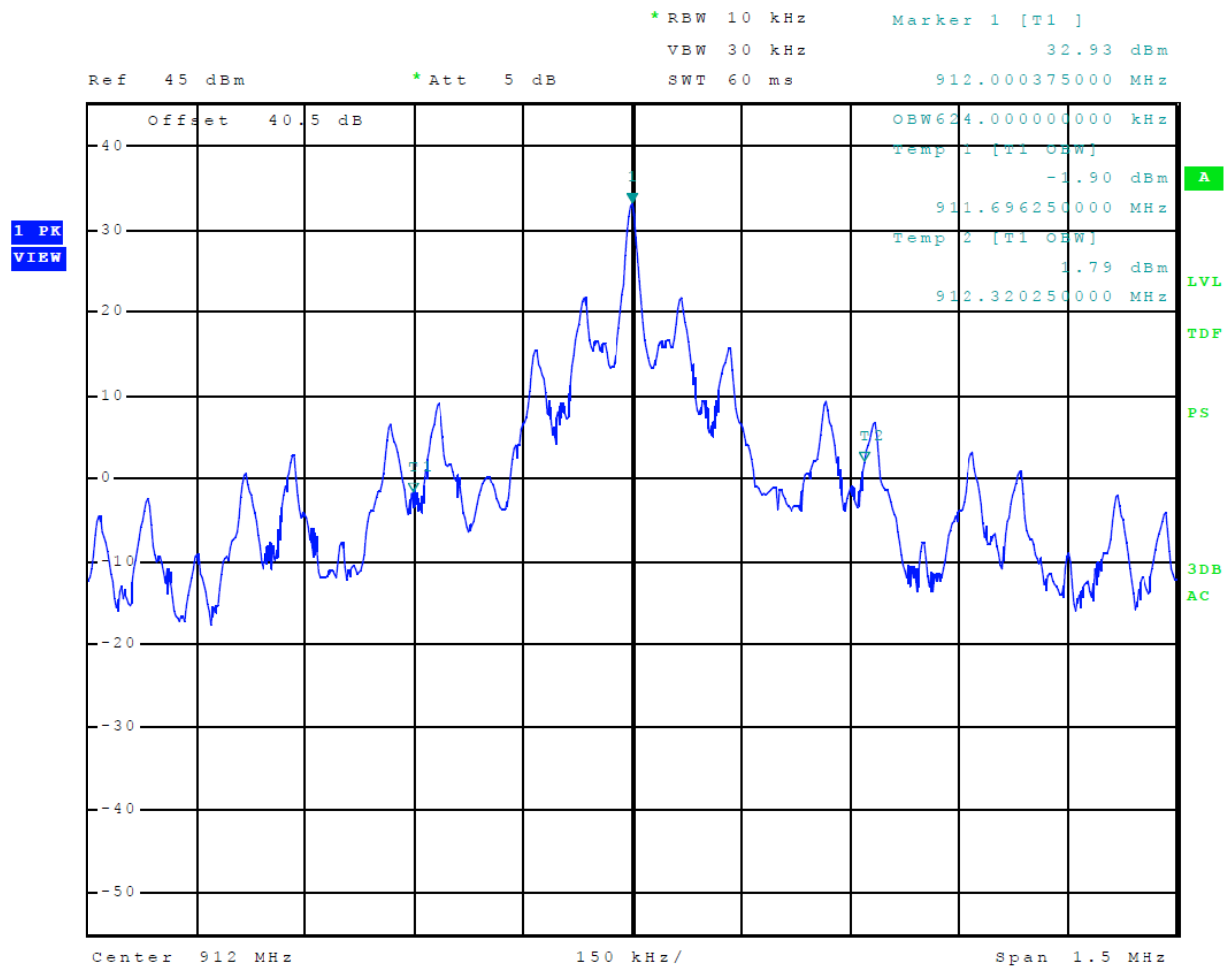
IC: 1584A-E6RSS137V3

Date: September 20, 2025

Page 32 of 64



**Figure 15 Occupied Bandwidth 6C/EPC**

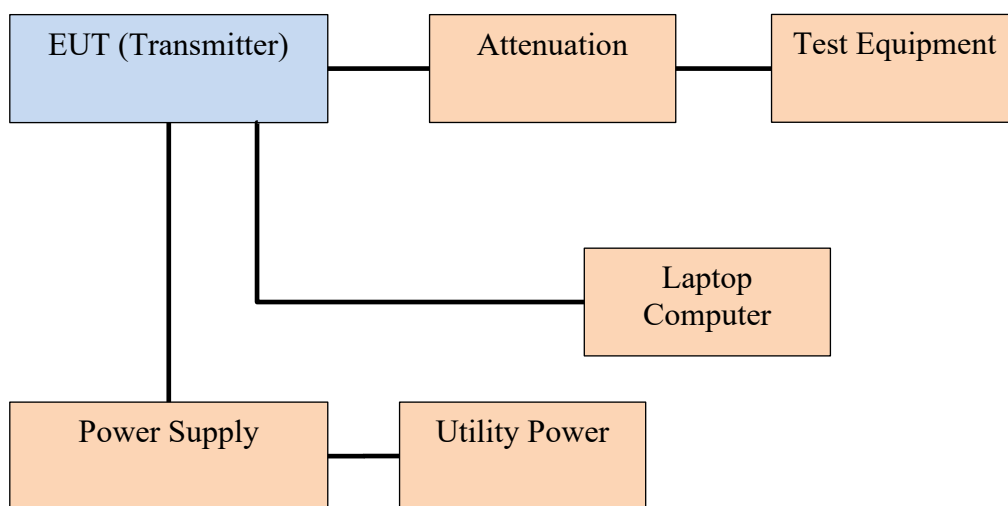


## TEST #4 Spurious Emissions

### 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 the at least  $55 + 10 \log(P_o)$  dB.

2.0 -watt transmitter limit requires the out of band emissions must be suppressed by at least 58.0 dBc

$$\begin{aligned}
 \text{Attenuation} &= 55 + 10 \log_{10}(P_w) \\
 &= 55 + 10 \log_{10}(2) \\
 &= 58.0 \text{ dBc}
 \end{aligned}$$

**Table 3 Spurious Emissions Results CW (ATA) (Maximum Power)**

Channel MHz	Spurious Freq. (MHz)	Measured Level (dBm)	Level Below Carrier (dBc)
902.25	1804.5	-33.8	66.9
	2706.8	-44.6	77.7
	3609.0	-62.3	95.4
	4511.3	-70.3	103.4
	5413.5	-66.2	99.3
	6315.8	-70.1	103.2
910.00	1820.0	-35.0	68.1
	2730.0	-45.3	78.4
	3640.0	-67.6	100.7
	4550.0	-70.7	103.8
	5460.0	-68.6	101.7
	6370.0	-70.5	103.6
921.50	1843.0	-34.9	68.0
	2764.5	-50.0	83.1
	3686.0	-69.3	102.4
	4607.5	-70.9	104.0
	5529.0	-71.2	104.3
	6450.5	-69.5	102.6

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.

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TransCore

7915 Nieman Road HVIN: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602

FCC ID: FIHE6PT90V3

IC: 1584A-E6RSS137V3

Phone/Fax: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137

Date: September 20, 2025

Revision 4

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Page 35 of 64

**Table 4 Spurious Emissions Results CW (ATA) (Minimum Power)**

Channel MHz	Spurious Freq. (MHz)	Measured Level (dBm)	Level Below Carrier (dBc)
902.25	1804.5	-61.9	80.0
	2706.8	-43.7	61.8
	3609.0	-59.1	77.2
	4511.3	-70.5	88.6
	5413.5	-66.4	84.5
	6315.8	-69.6	87.7
910.00	1820.0	-65.7	83.8
	2730.0	-46.8	64.9
	3640.0	-66.9	85.0
	4550.0	-70.8	88.9
	5460.0	-70.2	88.3
	6370.0	-70.9	89.0
921.50	1843.0	-66.0	84.1
	2764.5	-52.4	70.5
	3686.0	-70.1	88.2
	4607.5	-70.5	88.6
	5529.0	-71.7	89.8
	6450.5	-70.7	88.8

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: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602

FCC ID: FIHE6PT90V3

IC: 1584A-E6RSS137V3

Phone/Fax: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137

Date: September 20, 2025

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

Page 36 of 64

**Table 5 Spurious Emissions Results eGo**

Channel MHz	Spurious Freq. (MHz)	Measured Level (dBm)	Level Below Carrier (dBc)
911.75	1823.5	-35.2	68.3
	2735.3	-45.3	78.4
	3647.0	-69.4	102.5
	4558.8	-70.5	103.6
	5470.5	-69.9	103.0
	6382.3	-71.3	104.4
915.0	1830.0	-34.9	67.9
	2745.0	-46.3	79.3
	3660.0	-69.9	102.9
	4575.0	-70.4	103.4
	5490.0	-71.2	104.2
	6405.0	-71.1	104.1
919.75	1839.5	-34.9	67.8
	2759.3	-49.1	82.0
	3679.0	-70.8	103.7
	4598.8	-70.7	103.6
	5518.5	-71.0	103.9
	6438.3	-69.9	102.8

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: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602

FCC ID: FIHE6PT90V3

IC: 1584A-E6RSS137V3

Phone/Fax: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137

Date: September 20, 2025

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

Page 37 of 64

**Table 6 Spurious Emissions Results SeGo**

Channel MHz	Spurious Freq. (MHz)	Measured Level (dBm)	Level Below Carrier (dBc)
911.75	1823.5	-35.3	68.3
	2735.3	-45.5	78.5
	3647.0	-70.5	103.5
	4558.8	-70.3	103.3
	5470.5	-71.4	104.4
	6382.3	-71.3	104.3
915.0	1830.0	-35.0	68.0
	2745.0	-46.3	79.3
	3660.0	-70.3	103.3
	4575.0	-70.4	103.4
	5490.0	-70.1	103.1
	6405.0	-71.2	104.2
919.75	1839.5	-35.0	68.0
	2759.3	-49.0	82.0
	3679.0	-71.3	104.3
	4598.8	-71.2	104.2
	5518.5	-71.3	104.3
	6438.3	-70.4	103.4

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.

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TransCore

7915 Nieman Road HVIN: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602

FCC ID: FIHE6PT90V3

IC: 1584A-E6RSS137V3

Phone/Fax: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137

Date: September 20, 2025

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

Page 38 of 64

**Table 7 Spurious Emissions Results CVSN**

Channel MHz	Spurious Freq. (MHz)	Measured Level (dBm)	Level Below Carrier (dBc)
914.75	1829.5	-41.3	74.4
	2744.3	-47.9	81.0
	3659.0	-69.9	103.0
	4573.8	-71.0	104.1
	5488.5	-72.0	105.1
	6403.3	-71.3	104.4
915.0	1830.0	-41.3	74.4
	2745.0	-48.6	81.7
	3660.0	-70.6	103.7
	4575.0	70.6	-37.5
	5490.0	-71.5	104.6
	6405.0	-71.2	104.3
916.75	1833.5	-41.5	74.5
	2750.3	-49.2	82.2
	3667.0	-70.8	103.8
	4583.8	-69.9	102.9
	5500.5	-71.2	104.2
	6417.3	-70.6	103.6

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: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602

FCC ID: FIHE6PT90V3

IC: 1584A-E6RSS137V3

Phone/Fax: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137

Date: September 20, 2025

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

Page 39 of 64

**Table 8 Spurious Emissions Results IAG**

Channel MHz	Spurious Freq. (MHz)	Measured Level (dBm)	Level Below Carrier (dBc)
914.75	1829.5	-35.2	68.2
	2744.3	-46.7	79.7
	3659.0	-71.5	104.5
	4573.8	-71.0	104.0
	5488.5	-71.9	104.9
	6403.3	-70.9	103.9
915.0	1830.0	-35.2	68.3
	2745.0	-47.3	80.4
	3660.0	-71.0	104.1
	4575.0	-71.0	104.1
	5490.0	-70.9	104.0
	6405.0	-71.3	104.4
916.75	1833.5	-35.2	68.3
	2750.3	-48.1	81.2
	3667.0	-71.5	104.6
	4583.8	-70.9	104.0
	5500.5	-70.6	103.7
	6417.3	-71.3	104.4

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: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602

FCC ID: FIHE6PT90V3

IC: 1584A-E6RSS137V3

Phone/Fax: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137

Date: September 20, 2025

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

Page 40 of 64



**Table 9 Spurious Emissions Results Title 21**

Channel MHz	Spurious Freq. (MHz)	Measured Level (dBm)	Level Below Carrier (dBc)
912.75	1825.5	-40.3	73.3
	2738.3	-47.2	80.2
	3651.0	-70.9	103.9
	4563.8	-70.1	103.1
	5476.5	-71.4	104.4
	6389.3	-70.2	103.2
915.75	1831.5	-40.0	73.0
	2747.3	-48.8	81.8
	3663.0	-70.5	103.5
	4578.8	-70.5	103.5
	5494.5	-71.3	104.3
	6410.3	-70.9	103.9
918.75	1837.5	-40.1	73.1
	2756.3	-50.7	83.7
	3675.0	-70.7	103.7
	4593.8	-70.6	103.6
	5512.5	-70.8	103.8
	6431.3	-70.8	103.8

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.

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TransCore

7915 Nieman Road HVIN: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602

FCC ID: FIHE6PT90V3

IC: 1584A-E6RSS137V3

Phone/Fax: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137

Date: September 20, 2025

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Page 41 of 64

**Table 10 Spurious Emissions Results 6C/EPC**

Channel MHz	Spurious Freq. (MHz)	Measured Level (dBm)	Level Below Carrier (dBc)
912.75	1825.5	-35.4	68.5
	2738.3	-45.6	78.7
	3651.0	-71.4	104.5
	4563.8	-70.3	103.4
	5476.5	-69.8	102.9
	6389.3	-71.0	104.1
915.75	1831.5	-35.1	68.2
	2747.3	-46.8	79.9
	3663.0	-70.5	103.6
	4578.8	-70.6	103.7
	5494.5	-70.0	103.1
	6410.3	-71.1	104.2
918.75	1837.5	-34.9	68.0
	2756.3	-49.5	82.6
	3675.0	-70.7	103.8
	4593.8	-70.4	103.5
	5512.5	-71.4	104.5
	6431.3	-70.0	103.1

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: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602

FCC ID: FIHE6PT90V3

IC: 1584A-E6RSS137V3

Phone/Fax: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137

Date: September 20, 2025

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

Page 42 of 64

## TEST #5 Emission Mask

### ***Measurements Required***

Transmitters used in the radio services governed by this part must comply with the emissions masks outlined in this section. Paragraph 90.210(K)(3) specifies the out of band emission limitations for this equipment. The spurious emissions for the device were measured at the maximum output power condition.

90.210 (k)

(3) *Other transmitters.* For all other transmitters authorized under subpart M that operate in the 902-928 MHz band, the peak power of any emission shall be attenuated below the power of the highest emission contained within the licensee's sub-band in accordance with the following schedule:

- (i) On any frequency within the authorized bandwidth: Zero dB.
- (ii) On any frequency outside the licensee's sub-band edges:  $55 + 10 \log(P)$  dB, where (P) is the highest emission (watts) of the transmitter inside the licensee's sub-band.

(4) In the 902-928 MHz band, the resolution bandwidth of the instrumentation used to measure the emission power shall be 100 kHz, except that, in regard to paragraph (2) of this section, a minimum spectrum analyzer resolution bandwidth of 300 Hz shall be used for measurement center frequencies with 1 MHz of the edge of the authorized subband.

RSS-137

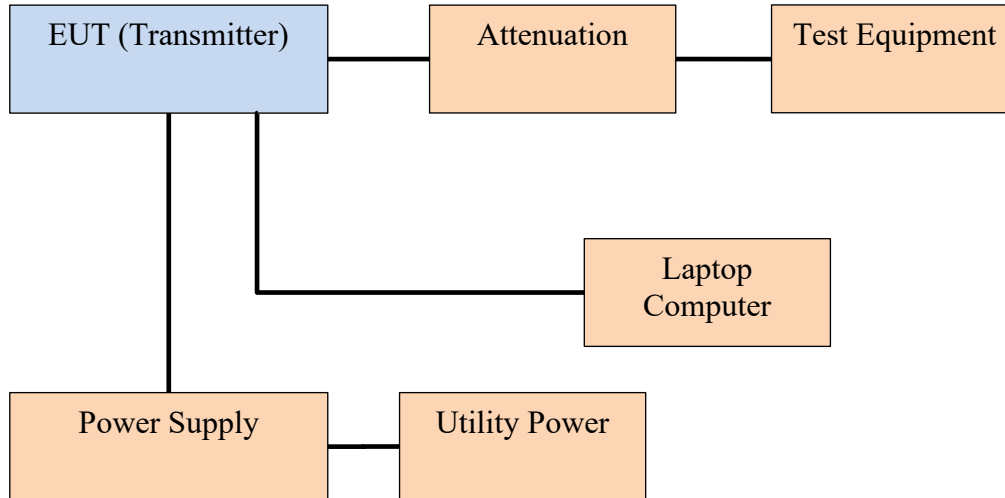
### **6.5.3 Emission Mask C – Other Transmitters**

Except as provided in sections 6.5.1, 6.5.2 and 6.5.4, the unwanted emission of all other transmitters operating in the band 902-928 MHz shall comply with the following:

The power of any emission outside the equipment operating sub-band edge shall be attenuated below the maximum permitted output power  $P_{max}$  by at least  $55 + 10 \log_{10} P_{max}$  dB

Emission Mask Calculation for this equipment: Limit= $55+10\log(2)$  which equates to 58 dBc.  
33 dBm minus 58 = -25 dBm limit

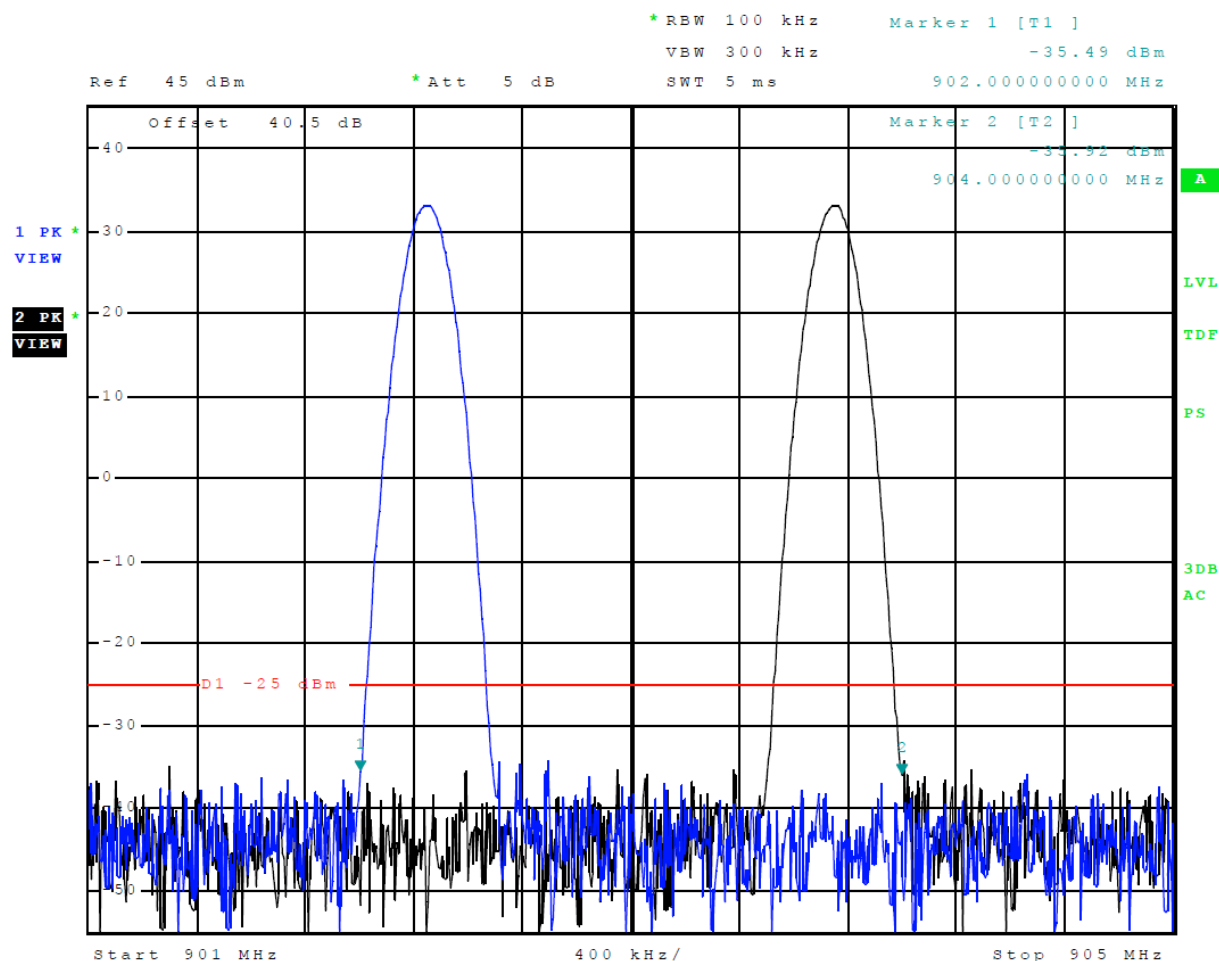
## Test Arrangement



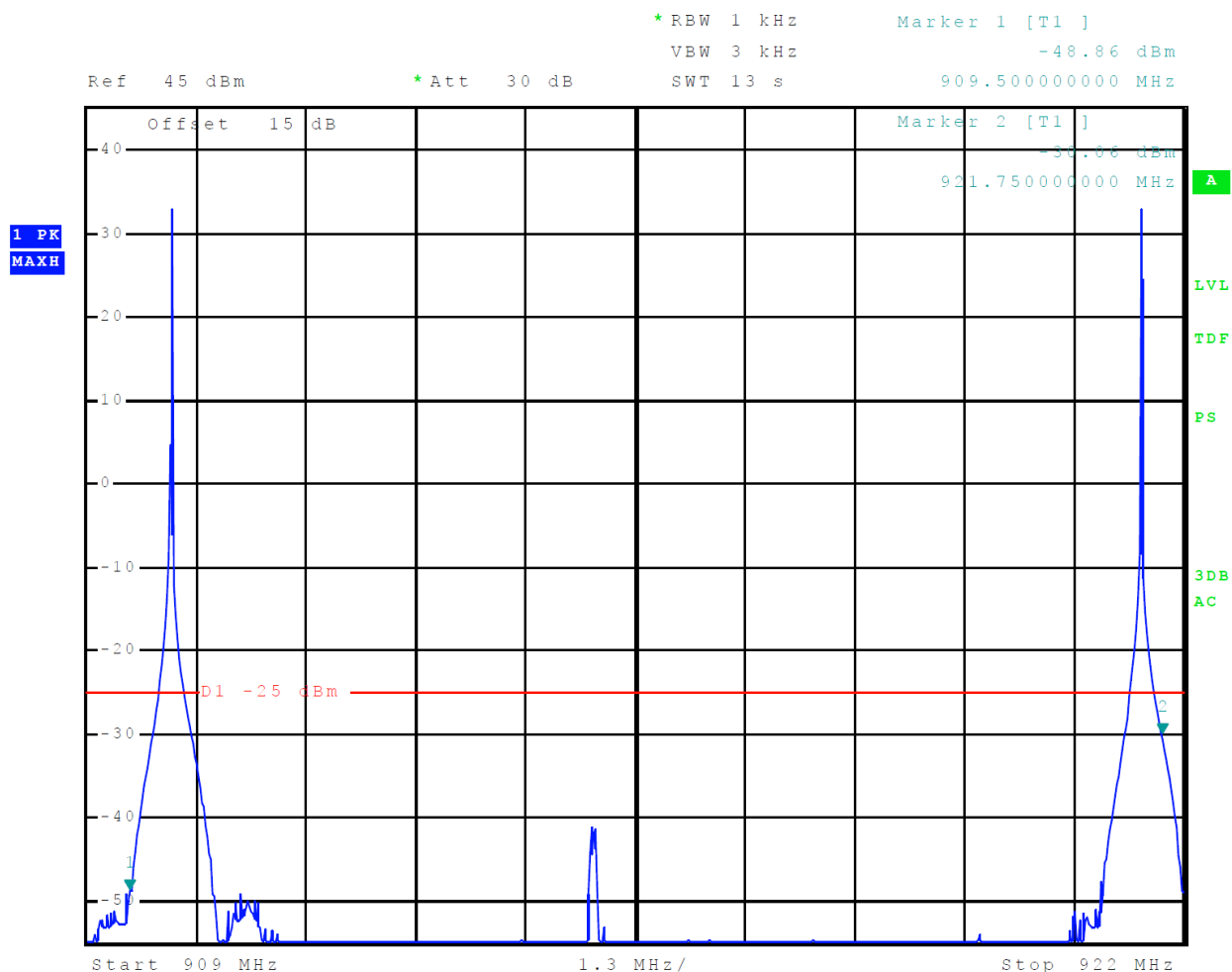
The radio frequency output was coupled to a Rohde & Schwarz ESU40 Spectrum Analyzer. The spectrum analyzer was used to observe the radio frequency spectrum with the transmitter operating through normal modes with maximum output power. The frequency spectrum at the band edges were observed and plots produced. Refer to figures 16 through 25 for plots presenting compliance with emission mask requirements at the band edges. Data was taken per 47CFR 2.1051 and applicable parts of Part 90.210 (k) 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.

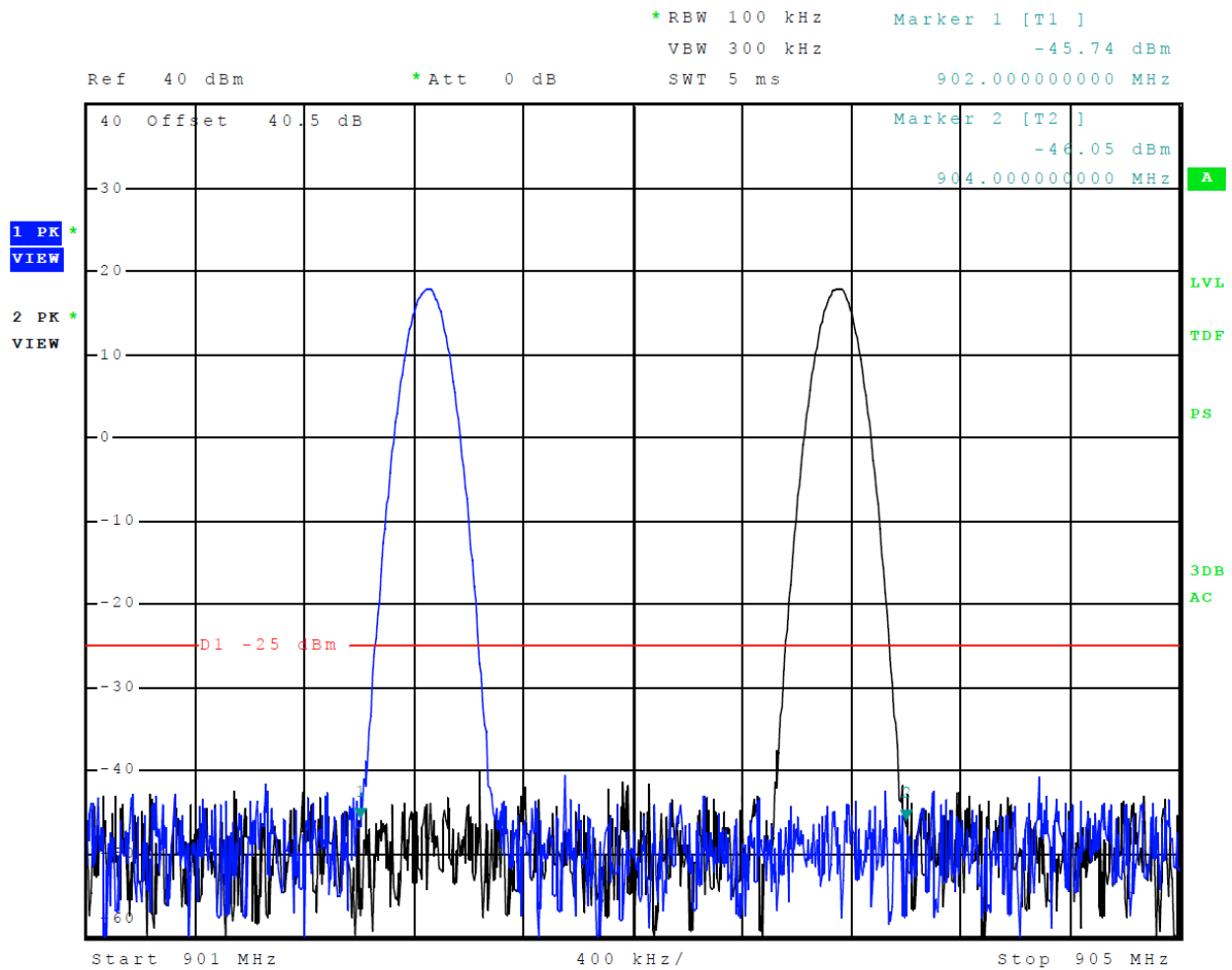
**Figure 16 Emissions Mask ATA High Power (902.25-903.75 MHz Band)**



**Figure 17 Emissions Mask ATA High Power (910.00-921.75 MHz Band)**



**Figure 18 Emissions Mask ATA Low Power (902.25-903.75 MHz Band)**



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7915 Nieman Road    HVIN: E6V3    PMN: E5, E6    SN: 20374184

Lenexa, KS 66214    Test: 250602    FCC ID: FIHE6PT90V3

Phone/Fax: (913) 660-0666    Test to: 47CFR Parts 2, 90 and RSS-137

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

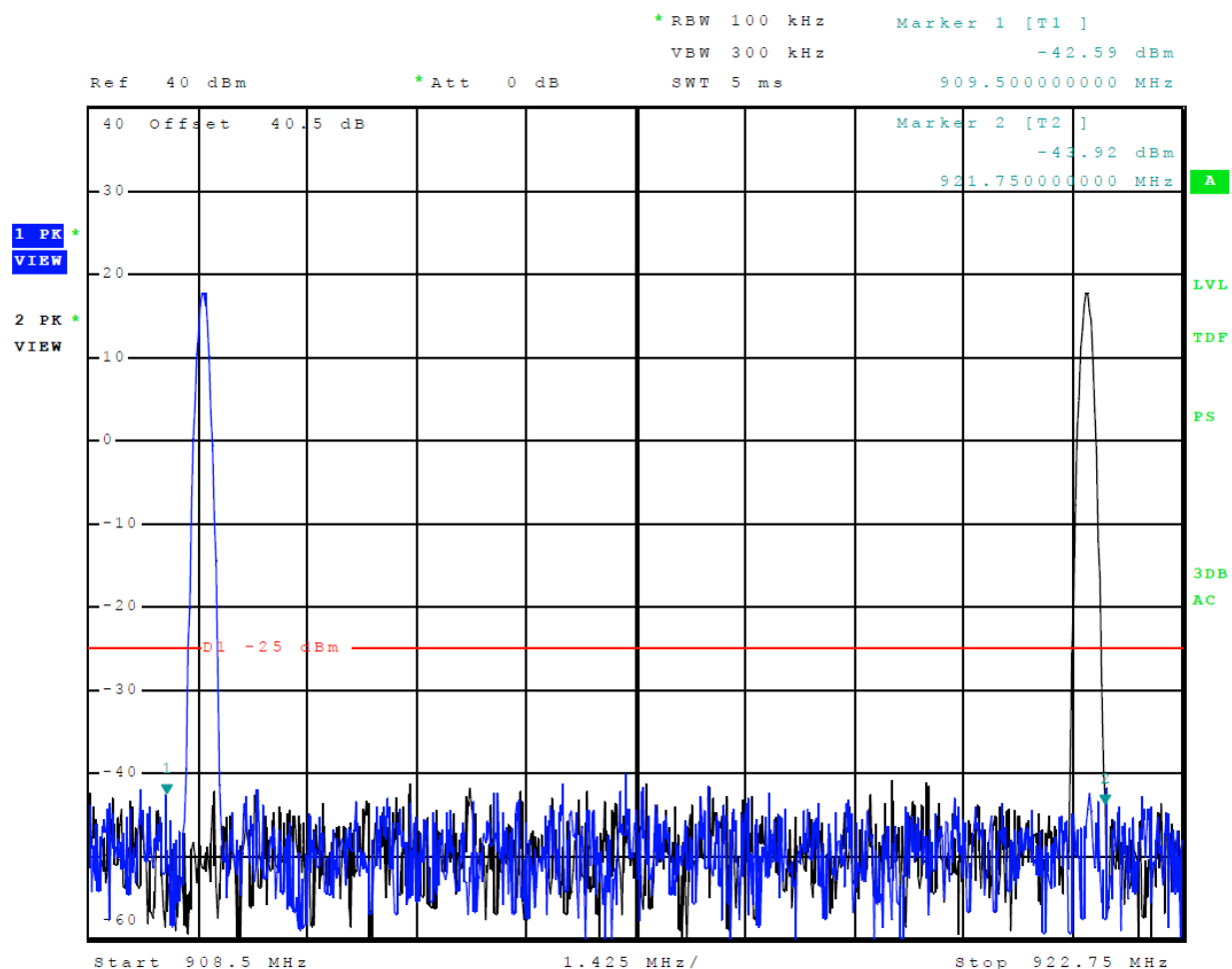
TransCore

IC: 1584A-E6RSS137V3

Date: September 20, 2025

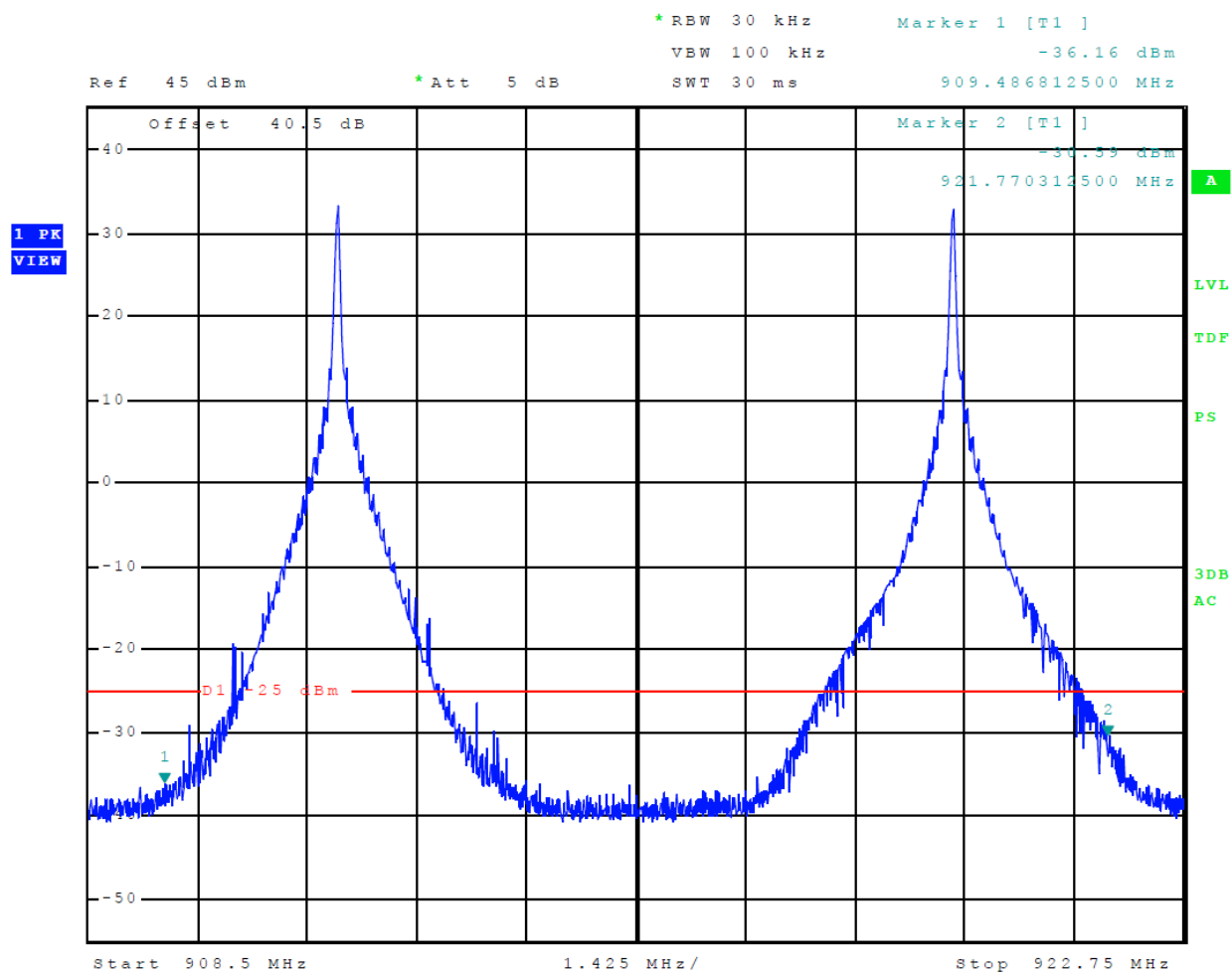
Page 47 of 64

**Figure 19 Emissions Mask ATA Low Power (910.00-921.75 MHz Band)**





**Figure 20 Emissions Mask eGo**



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7915 Nieman Road HVIN: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602 FCC ID: FIHE6PT90V3

Phone/Fax: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

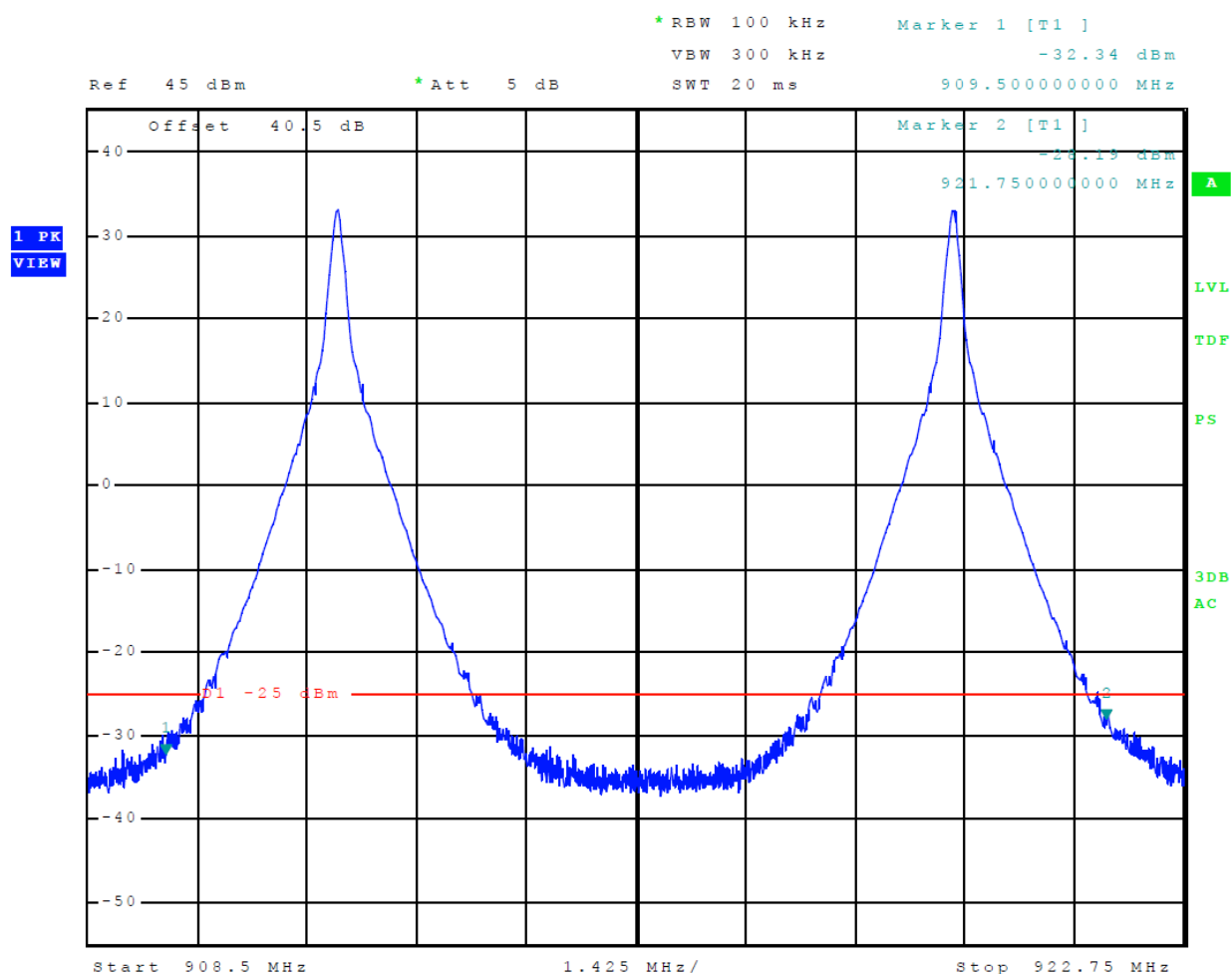
TransCore

IC: 1584A-E6RSS137V3

Date: September 20, 2025

Page 49 of 64

Figure 21 Emissions Mask SeGo



**Figure 22 Emissions Mask CVS**

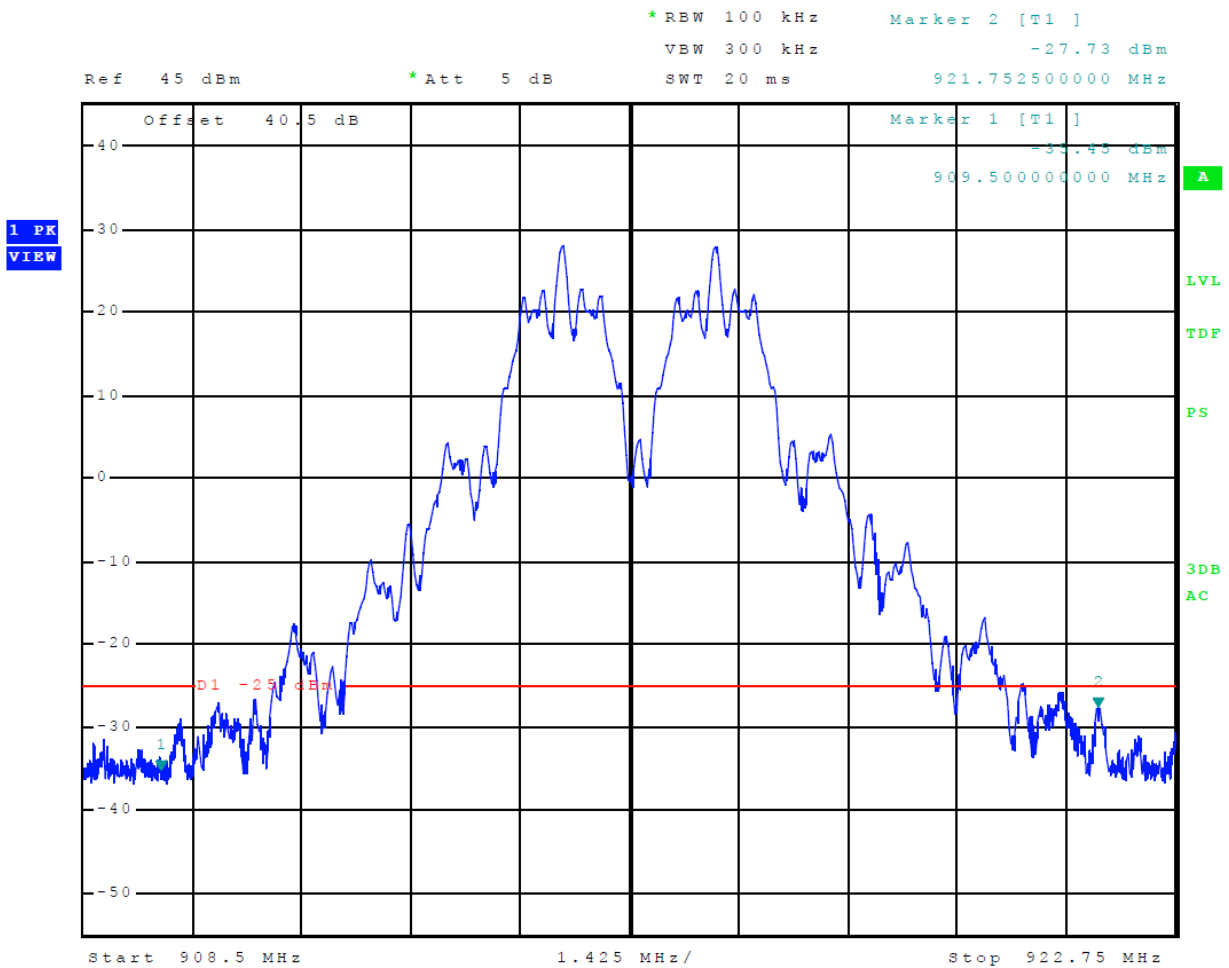
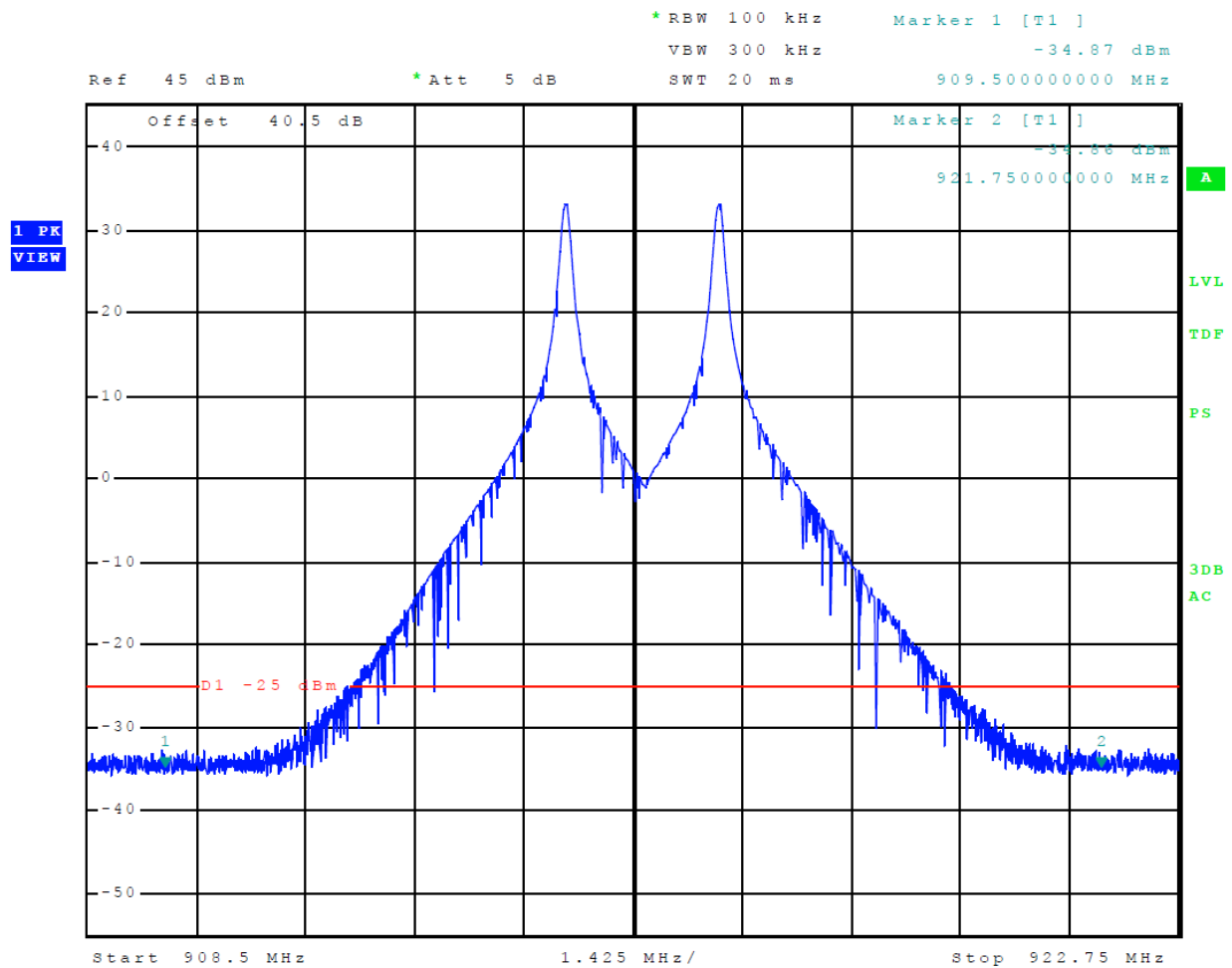


Figure 23 Emissions Mask IAG



Rogers Labs, a division of The Compatibility Center LLC

7915 Nieman Road HVIN: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602 FCC ID: FIHE6PT90V3

Phone/Fax: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

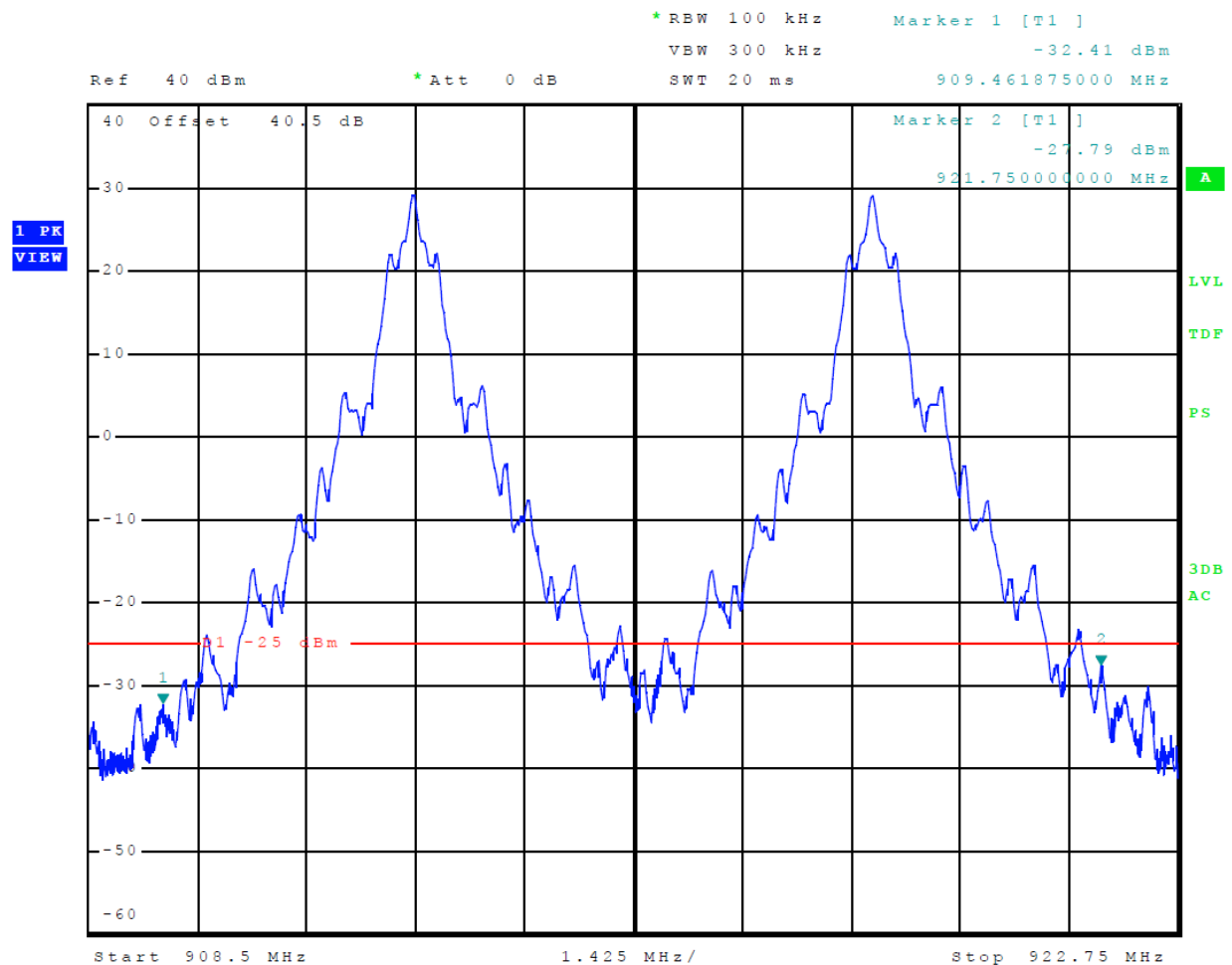
TransCore

IC: 1584A-E6RSS137V3

Date: September 20, 2025

Page 52 of 64

**Figure 24 Emissions Mask Title 21**



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7915 Nieman Road      HVIN: E6V3      PMN: E5, E6      SN: 20374184

Lenexa, KS 66214      Test: 250602      FCC ID: FIHE6PT90V3

IC: 1584A-E6RSS137V3

Phone/Fax: (913) 660-0666      Test to: 47CFR Parts 2, 90 and RSS-137

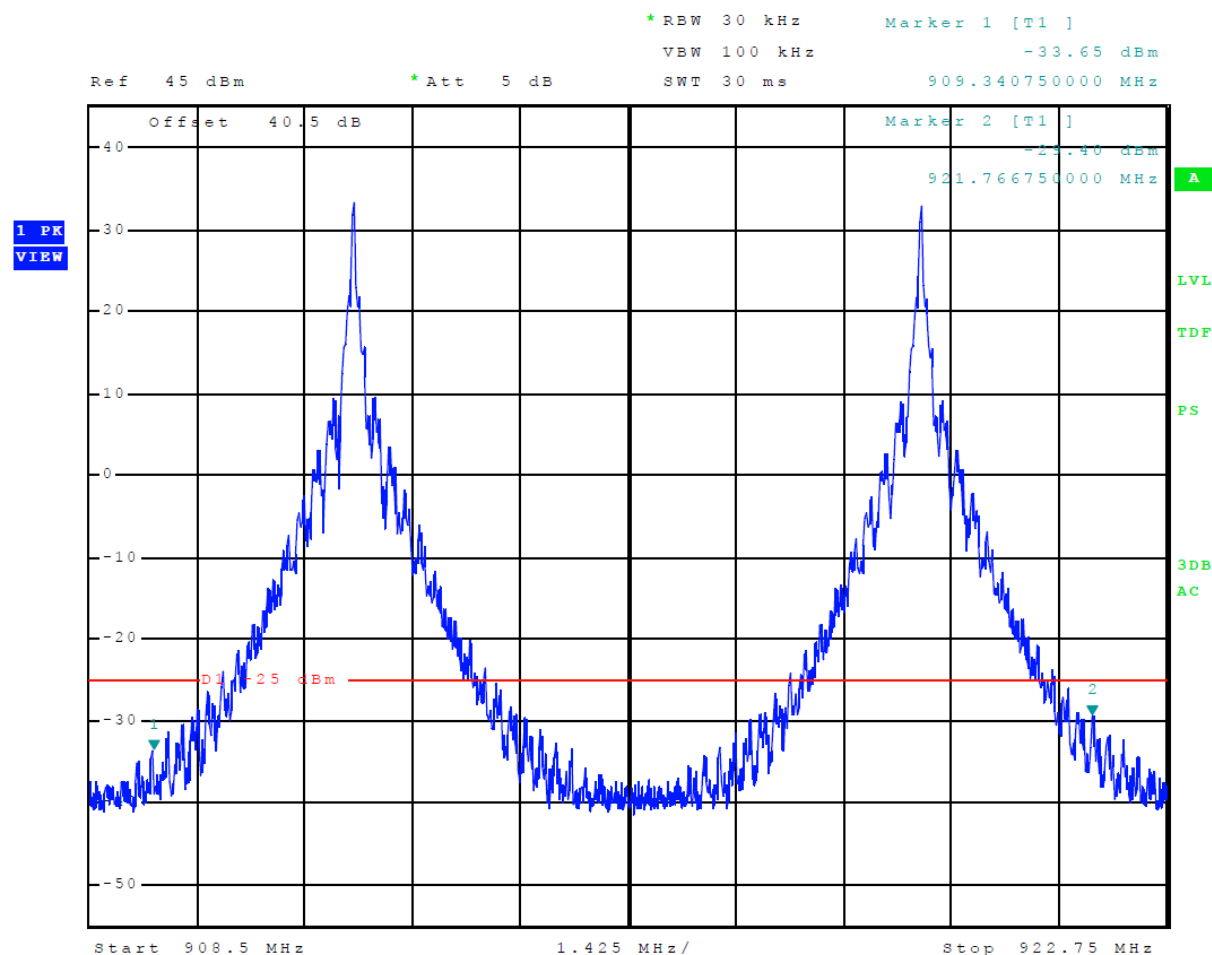
Date: September 20, 2025

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

Page 53 of 64

**Figure 25 Emissions Mask 6C/EPC**



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Lenexa, KS 66214 Test: 250602 FCC ID: FIHE6PT90V3

Phone/Fax: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

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IC: 1584A-E6RSS137V3

Date: September 20, 2025

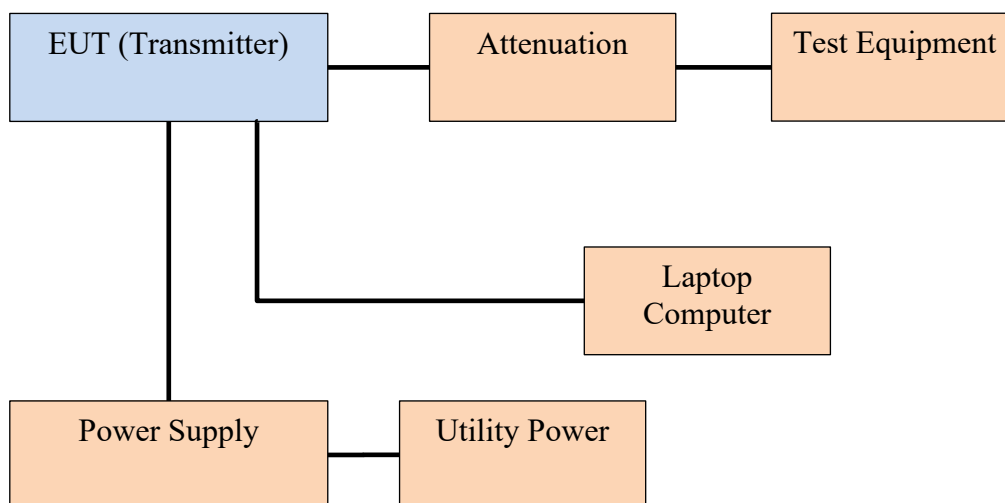
Page 54 of 64

## TEST #6 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 on the Open Area Test Site (OATS). The transmitter spurious emissions were measured on the OATS. 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 through 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 $\mu$ 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 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  $55 + 10 \log(P_o)$  dB.

Emission requirement for 2.0-watt transmitter power requires spurious emissions be attenuated at least 58.0 dBc below the carrier.

$$\begin{aligned}
 \text{Attenuation} &= 55 + 10 \log_{10}(P_w) \\
 &= 55 + 10 \log_{10}(2.0) \\
 &= 58.0 \text{ dBc}
 \end{aligned}$$

Data was taken per 2.1051 and applicable parts of 47CFR 90. 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.



**Table 11 General Radiated Emissions Data – Worst Case**

Frequency MHz	Amplitude of Emission (dBμV)		ERP (dBm)		Emission level below carrier (dBc)		Limit (dBc)
	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	
54.1	40.9	-	-54.3	-	87.3	-	58
672.0	49.1	-	-46.1	-	79.1	-	58
768.0	55.7	-	-39.5	-	72.5	-	58
875.0	52.0	-	-43.3	-	76.3	-	58
912.0	44.8	-	-50.4	-	83.4	-	58
30.6	-	44.2	-	-51.0	-	84.0	58
33.4	-	39.4	-	-55.8	-	88.8	58
672.0	-	49.9	-	-45.3	-	78.3	58
863.9	-	44.1	-	-51.1	-	84.1	58
875.0	-	49.6	-	-45.7	-	78.7	58

Other emissions present had amplitudes at least 20 dB below the limit. Peak and Quasi-Peak amplitude emissions are recorded for frequency range below 1000 MHz. Peak and Average amplitude emissions are recorded for frequency range above 1000 MHz.

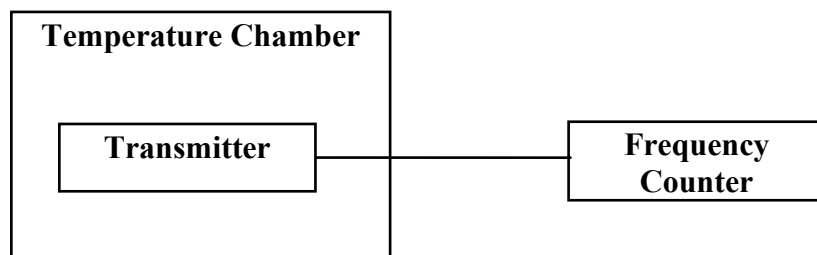
## TEST #7 Frequency Stability

### Measurements Required

The frequency stability shall be measured with variations of ambient temperature from  $-30^{\circ}$  to  $+50^{\circ}$  centigrade. Measurements shall be made at the extremes of the temperature range and at intervals of not more than  $10^{\circ}$  centigrade through the range. A period sufficient to stabilize all of the components of the oscillator circuit at each temperature level shall be allowed prior to frequency measurement. In addition to temperature stability, the frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value.
- (2) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

### Test Arrangement



The measurement procedure outlined below shall be followed for frequency stability testing.

Step 1: The transmitter shall be installed in an environmental test chamber whose temperature is controllable. Provision shall be made to measure the frequency of the transmitter.

Step 2: With the transmitter inoperative (power switched “OFF”), the temperature of the test chamber shall be adjusted to  $+25^{\circ}\text{C}$ . After a temperature stabilization period of one hour at  $+25^{\circ}\text{C}$ , the transmitter shall be switched “ON” with standard test voltage applied.

Step 3: The carrier shall be keyed “ON”, and the transmitter shall be operated at full radio frequency power output at the duty cycle, for which it is rated, for duration of at least 5 minutes. The radio frequency carrier frequency shall be monitored, and measurements shall be recorded.

**Step 4:** The test procedures outlined in Steps 2 and 3, shall be repeated after stabilizing the transmitter at the environmental temperatures specified, -30°C to +50°C in 10-degree increments.

**Table 12 Frequency Stability vs. Temperature Results**

Frequency 915.0000 MHz)	Frequency Stability Vs. Temperature Ambient Frequency (915.0000)								
Temperature °C	-30	-20	-10	0	+10	+20	+30	+40	+50
Change (Hz)	-74	-122	-12	69	123	0	38	96	155
PPM	-0.081	-0.133	-0.013	0.075	0.134	0.000	0.042	0.105	0.169
%	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Limit (PPM)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**Table 13 Frequency Stability vs. Input Power Supply Voltage Results**

Frequency (915.0000 MHz)	Frequency Stability Vs. Voltage Variation 24 volts nominal; Results in Hz change		
Voltage V <sub>dc</sub>	20.4	24.0	27.6
Change (Hz)	-6	0	14
PPM	-0.007	0.000	0.015
Limit (PPM)	N/A	N/A	N/A

Frequency stability is not required for this device per 47CFR 90.213(a) note:13, and RSS-137.

Frequency stability testing was performed.

The EUT demonstrated compliance with specifications of 47CFR Paragraph 2.1046(a) and applicable Parts of 90.213 and RSS-137. There are no deviations or exceptions to the specifications.

## Annex

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

## Annex A Measurement Uncertainty Calculations

The measurement uncertainty was calculated for all measurements listed in this test report according To CISPR 16–4. The results 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%

## Annex B Test Equipment List

<u>Equipment</u>	<u>Manufacturer</u>	<u>Model (SN)</u>	<u>Band</u>	<u>Cal Date(m/d/y)</u>	<u>Due</u>
<input checked="" type="checkbox"/> LISN	FCC	FCC-LISN-50-25-10(1PA) (160611)	.15-30MHz	3/20/2025	3/20/2026
<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(L10M)(303073)	9kHz-40 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(1.5M)(303069)	9kHz-40 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Belden	RG-58 (L1-CAT3-11509)	9kHz-30 MHz	9/16/2024	9/16/2025
<input type="checkbox"/> Cable	Belden	RG-58 (L2-CAT3-11509)	9kHz-30 MHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Antenna	Com Power	AL-130 (121055)	.001-30 MHz	9/16/2024	9/16/2025
<input type="checkbox"/> Antenna:	EMCO	6509	.001-30 MHz	9/16/2024	9/16/2026
<input checked="" type="checkbox"/> Antenna	ARA	BCD-235-B (169)	20-350MHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Antenna	Sunol	JB-6 (A100709)	30-1000 MHz	9/16/2024	9/16/2025
<input type="checkbox"/> Antenna	ETS-Lindgren	3147 (40582)	200-1000MHz	9/16/2024	9/16/2026
<input checked="" type="checkbox"/> Antenna	ETS-Lindgren	3117 (200389)	1-18 GHz	3/17/2025	3/17/2027
<input checked="" type="checkbox"/> Antenna	Com Power	AH-118 (10110)	1-18 GHz	9/16/2024	9/16/2026
<input checked="" type="checkbox"/> Antenna	Com Power	AH-840 (101046)	18-40 GHz	3/17/2025	3/17/2027
<input checked="" type="checkbox"/> Analyzer	Rohde & Schwarz	ESU40 (100108)	20Hz-40GHz	7/8/2024	7/8/2025
<input checked="" type="checkbox"/> Analyzer	Rohde & Schwarz	ESW44 (101534)	20Hz-44GHz	1/21/2025	1/21/2026
<input type="checkbox"/> Analyzer	Rohde & Schwarz	FS-Z60, 90, 140, and 220	40GHz-220GHz	12/22/2017	12/22/2027
<input type="checkbox"/> Amplifier	Com-Power	PA-010 (171003)	100Hz-30MHz	9/16/2024	9/16/2025
<input type="checkbox"/> Amplifier	Com-Power	CPPA-102 (01254)	1-1000 MHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Amplifier	Com-Power	PAM-118A (551014)	0.5-18 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Amplifier	Com-Power	PAM-840A (461328)	18-40 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Pwr Sensor	Rohde & Schwarz	NRP33T	0.05-33 GHz	9/26/2023	9/26/2025
<input checked="" type="checkbox"/> Generator	Rohde & Schwarz	SMBV100A6 (260771)	20Hz-6 GHz	3/19/2025	3/19/2026
<input type="checkbox"/> RF Filter	Micro-Tronics	BRC50722 (009).9G notch	30-18000 MHz	3/21/2025	3/21/2026
<input type="checkbox"/> RF Filter	Micro-Tronics	HPM50117 (063) 3G HPF	30-18000 MHz	3/21/2025	3/21/2026
<input checked="" type="checkbox"/> RF Filter	Micro-Tronics	BRM50702 (172) 2G notch	30-18000 MHz	3/21/2025	3/21/2026
<input checked="" type="checkbox"/> RF Filter	Micro-Tronics	BRC50703 (G102) 5G notch	30-18000 MHz	3/21/2025	3/21/2026
<input checked="" type="checkbox"/> RF Filter	Micro-Tronics	BRC50705 (024) 5G notch	30-18000 MHz	3/21/2025	3/21/2026
<input type="checkbox"/> Attenuator	Fairview	SA6NFNF100W-40 (1625)	30-18000 MHz	3/21/2025	3/21/2026
<input checked="" type="checkbox"/> Attenuator	Mini-Circuits	VAT-3W2+ (1445)	30-6000 MHz	3/21/2025	3/21/2026
<input checked="" type="checkbox"/> Attenuator	Mini-Circuits	VAT-3W2+ (1735)	30-6000 MHz	3/21/2025	3/21/2026
<input checked="" type="checkbox"/> Attenuator	Mini-Circuits	VAT-6W2+ (1438)	30-6000 MHz	3/21/2025	3/21/2026
<input checked="" type="checkbox"/> Weather station	Davis	6152 (A70927D44N)		7/11/2024	7/11/2025

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TransCore

7915 Nieman Road HVIN: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602

FCC ID: FIHE6PT90V3

IC: 1584A-E6RSS137V3

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Date: September 20, 2025

Revision 4

File: Transcore E6V3 TstRpt 250602 r4

Page 62 of 64

<u>Equipment</u>	<u>Manufacturer</u>	<u>Model (SN)</u>	<u>Band</u>	<u>Cal Date(m/d/y)</u>	<u>Due</u>
<input type="checkbox"/> Frequency Counter: Leader		LDC-825 (8060153)		3/19/2025	3/19/2026
<input type="checkbox"/> ISN	Com-Power	Model ISN T-8 (600111)		3/19/2025	3/19/2026
<input type="checkbox"/> LISN	Compliance Design	FCC-LISN-2.Mod.cd,(126)	.15-30MHz	9/16/2024	9/16/2025
<input type="checkbox"/> LISN:	Com-Power	Model LI-220A		9/16/2024	9/16/2026
<input checked="" type="checkbox"/> LISN:	Com-Power	Model LI-550C		9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(1.5M)(303072)	9kHz-40 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(L1M)(281183)	9kHz-40 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(4M)(281184)	9kHz-40 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(L10M)(317546)	9kHz-40 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Time Microwave	4M-750HF290-750 (L4M)	9kHz-24 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Mini-Circuits	KBL-2M-LOW+ (23090329)	9kHz-40 GHz	3/22/2025	3/22/2026
<input checked="" type="checkbox"/> Analyzer	HP	8562A (3051A05950)	9kHz-125GHz	3/20/2025	3/20/2026
<input type="checkbox"/> Antenna:	Solar	9229-1 & 9230-1		2/5/2025	2/5/2026
<input type="checkbox"/> CDN:	Com-Power	Model CDN M325E		9/16/2024	9/16/2025
<input type="checkbox"/> Oscilloscope Scope: Tektronix		MDO 4104		2/5/2025	2/5/2026
<input type="checkbox"/> EMC Transient Generator HVT		TR 3000		2/5/2025	2/5/2026
<input type="checkbox"/> AC Power Source (Ametech, California Instruments)				2/5/2025	2/5/2026
<input checked="" type="checkbox"/> Field Intensity Meter: EFM-018				2/5/2025	2/5/2026
<input checked="" type="checkbox"/> ESD Simulator: MZ-15				2/5/2025	2/5/2026
<input type="checkbox"/> Injection Clamp Luthi Model EM101				not required	
<input type="checkbox"/> R.F. Power Amp ACS 230-50W				not required	
<input type="checkbox"/> R.F. Power Amp EIN Model: A301				not required	
<input type="checkbox"/> R.F. Power Amp A.R. Model: 10W 1010M7				not required	
<input type="checkbox"/> R.F. Power Amp A.R. Model: 50U1000				not required	
<input checked="" type="checkbox"/> Temperature Chamber				not required	
<input checked="" type="checkbox"/> Shielded Room				not required	
POSSIBLY USE FOR GARMIN GPS TESTING					
<input type="checkbox"/> GNSS Sig Gen SG80K, SN: GNSS-00952				not required	

**Annex C Laboratory Certificate of Accreditation**

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:*

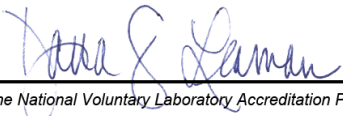
**Electromagnetic Compatibility & Telecommunications**

*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 on ISO/IEC 17025).*

2025-03-11 through 2026-03-31

Effective Dates



  
For the National Voluntary Laboratory Accreditation Program

Rogers Labs, a division of The Compatibility Center LLC

7915 Nieman Road HVIN: E6V3 PMN: E5, E6 SN: 20374184

Lenexa, KS 66214 Test: 250602 FCC ID: FIHE6PT90V3

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Date: September 20, 2025

Page 64 of 64