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Test Report

Certification

FCC ID	2AJAC-ESSTRPRE4
IC	7848A-ESSTRPRE4
Equipment Under Test	EA-STREAM-PRE-4
Test Report Serial No	V082549_01
Dates of Test	October 28 – November 13, 2025
Report Issue Date	February 11, 2026

Test Specifications:	Applicant:
FCC Part 15, Subpart E FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02 RSS-247 7.3.6 DFS for equipment operating in the bands 5250-5350 MHz, 5470-5725 MHz	Snap One LLC 1800 Continental Blvd., Suite 200-300 Charlotte NC 28273 U.S.A.



Certification of Engineering Report

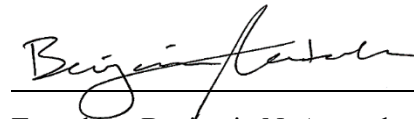
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Applicant	Snap One LLC
Manufacturer	Snap One LLC
Brand Name	Snap One
Model Number	EA-STREAM-PRE-4
FCC ID	2AJAC-ESSTRPRE4
IC	7848A-ESSTRPRE4

On this 11th day of February 2026, I, individually and for VPI Laboratories, Inc., certify that the statements made in this engineering report are true, complete, and correct to the best of my knowledge, and are made in good faith.

Although NVLAP has accredited the VPI Laboratories, Inc. EMC testing facilities, this report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

VPI Laboratories, Inc.



Tested by: Benjamin N. Antczak



Reviewed by: Jason Stewart

Revision History		
Revision	Description	Date
01	Original Report Release	February 11, 2026

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1 Client Information

1.1 Applicant

Company Name	Snap One LLC 1800 Continental Blvd., Suite 200-300 Charlotte NC 28273 U.S.A.
Contact Name	Roger Midgley
Title	Sr. Regulatory Compliance Engineer

1.2 Manufacturer

Company Name	Snap One LLC 1800 Continental Blvd., Suite 200-300 Charlotte NC 28273 U.S.A.
Contact Name	Roger Midgley
Title	Sr. Regulatory Compliance Engineer

2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	SnapOne
Model Number	EA-STREAM-PRE-4
Serial Numbers	Engineering Unit
Dimensions (cm)	43.0 x 27.0 x 4.0
Mfr. Declared Antenna Gain (dBi)	4.0

2.2 Description of EUT

The EA-STREAM-PRE-4 is a streaming amplifier for use in home and commercial media environments. The EUT is powered directly by AC Mains. The antenna is a NIC Components NAN-E Series RP-SMA articulating duck antenna, NAN-E108x9B2AR, and gains are provided in the A revision of the NAN-E Series datasheet, revision A dated December 17, 2020. The devices contain a 5GHz transmitter capable of operating in two 20MHz bandwidth modulation schemes: 802.11a (“A-Mode”) and 802.11n(“N20-Mode”).

All modulation schemes utilize the following channel map and the RF output power set levels found to be compliant with applicable limits:

Channel	Frequency (MHz)	A-Mode (6Mbps)	N20-Mode (7Mbps)	TPC?
UNII1 (5150-5250MHz)				
36	5180	14	15	N/A
40	5200	20	20	N/A
44	5220	20	20	N/A
48	5240	20	20	N/A
UNII2A (5250-5350MHz)				
52	5260	20	20	No
56	5280	20	20	No
60	5300	20	20	No
64	5320	16	16	No
UNII2C (5470-5725MHz)				
100	5500	14	14	No
104	5520	18	18	No
108	5540	20	20	No
112	5560	20	20	No
(Table Continued Next Page)				

Channel	Frequency (MHz)	A-Mode (6Mbps)	N20-Mode (7Mbps)	TPC?
UNII2C (5470-5725MHz) Continued				
116	5580	20	20	No
120	5600	20	20	No
124	5620	20	20	No
128	5640	20	20	No
132	5660	20	20	No
136	5680	19	19	No
140	5700	14	15	No
UNII3 (5725-5850MHz)				
149	5745	20	20	N/A
153	5765	20	20	N/A
157	5785	20	20	N/A
161	5805	20	20	N/A
165	5825	20	20	N/A

2.2.1 Modes of Operation

EUT is intended to operate indoors as a client device. EUT is incapable of fixed point-to-point architecture.

2.2.2 DFS Capabilities

EUT utilizes DFS but cannot operate in a master operational mode. Therefore, only the requirement for channel move time is applicable.

2.3 EUT and Support Equipment

The EUT and support equipment used during the test are listed below.

Brand Name Model Number Serial Number	Description	Name of Interface Ports / Interface Cables
BN: Snap One MN: EA-STREAM-PRE-4 (Note 1) SN: See Section 2.1	Wireless Enabled Streaming Amplifier	See Section 2.4
BN: Trendnet MN: TEG-S50TXE SN: CA06225006898	Network Switch (Note 2)	Network / Cat 5e Ethernet
BN: Netgear MN: R7000 SN: 44214877A4B41	Network Router	No Connection to EUT (Network Switch / Cat 5e Ethernet)

Brand Name Model Number Serial Number	Description	Name of Interface Ports / Interface Cables
BN: Lenovo MN: ThinkPad T460s SN: N/A	PC Laptop	No Connection to EUT (Network Switch / Cat 5e Ethernet)
BN: Linksys MN: EA8300 SN: 21P10M25A07785	DFS Network Router	Antenna Port Conducted Connection through R&S Switching Unit (Network Switch / Cat 5e Ethernet)
BN: Panasonic MN: Toughbook CF-31 SN: N/A	DFS Router Control Laptop	No Connection to EUT (DFS Router Network / Cat 5e Ethernet)

Notes: (1) EUT

(2) Interface port connected to EUT (See Section 2.4)

The support equipment listed above was not modified in order to achieve compliance with this standard.

2.4 Interface Ports on EUT

Name of Ports	No. of Ports Fitted to EUT	Cable Description/Length
NETWORK	1 of 1	Cat 5e Ethernet / 7 meters
12V TRIG OUT	0 of 4	N/A
USB	0 of 1	N/A
IR IN	0 of 1	N/A
IR OUT	0 of 1	N/A
SOURCE IN 1 (OPTICAL)	0 of 1	N/A
SOURCE IN 1 (RCA)	0 of 1	N/A
SOURCE IN 2	0 of 2	N/A
ZONE OUT L	0 of 1	N/A
ZONE OUT R	0 of 1	N/A
ZONE OUT (OPTICAL)	0 of 4	N/A
ZONE OUT (RCA)	0 of 4	N/A

2.5 Modifications Incorporated/Special Accessories on EUT

The following modifications were made to the EUT by the Client during testing to comply with the specification. This report is not complete without an accompanying signed attestation, that the product will have all of the documented modifications incorporated into the product when manufactured and placed on the market.

- RF Power level output set to levels listed in Section 2.2.

2.6 Deviation from Test Standard

There were no deviations from the test specification.

2.7 Scope of This Report

This report covers the circuitry of the devices subject to DFS requirements of FCC Part 15, Subpart E for the UNII-2 band and RSS-247 Section 7.3.6.

3 Test Specification, Methods and Procedures

3.1 Test Specification

Title	FCC PART 15, Subpart E (47 CFR 15) 15.203, 15.207, 15.209, and 15.407 RSS 247 (Issue 4) 7.3.6
Purpose of Test	The tests were performed to demonstrate initial compliance
UNII References	KDB 789033 Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

3.2 Methods & Procedures

3.2.1 §15.407 Operation within the UNII Bands

Emission bandwidth is determined by measuring the width of the signal between points that are 26 dB down relative to the maximum level of the carrier center frequency.

Maximum conducted output power is the total transmit power delivered to all antennas, averaged across all symbols when operating at maximum power control level. If multiple modulation methods are possible, then the highest total transmit power in any mode is considered the maximum conducted output power.

Power spectral density is the total energy output per unit bandwidth from a transmitter operating at maximum power level divided by the total duration of transmission.

Measurements for UNII operation are taken over intervals of continuous transmissions. Measurements are taken using a minimum of resolution bandwidth of 1 MHz. If lower resolution bandwidths are used, measurement energies must be integrated to show the total power over 1 MHz. Emission limits are taken at the highest and lowest channels available to the manufacturer.

Although not covered in this test report, frequency stability must be ensured by manufacturer under all conditions of normal operation.

3.2.1.1 Power Limits in the Bands 5250 – 5350 MHz and 5470 – 5725 MHz (“UNII-2”)

Maximum conducted output power over the frequency bands 5.25-5.35 GHz and 5.47-5.725 GHz (“UNII-2A” and “UNII-2C,” collectively, “UNII-2”) shall not exceed the lesser of: 250 mW (24 dBm); or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz (MHz). Maximum power spectral density shall additionally not exceed 11 dBm in any 1 MHz band. If maximum antenna gain exceeds 6 dBi, then the maximum conducted output power and maximum power spectral density shall be reduced by the amount (in dB) that the directional gain of the antenna exceeds 6 dBi.

For transmitters operating in the UNII-2A band, emissions outside the band 5.15 – 5.35 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz. For those transmitters operating in the UNII-2C band, emissions outside the UNII-2C band shall not exceed an e.i.r.p. of -27 dBm/MHz.

Transmitters operating in the UNII-2 bands for which e.i.r.p. exceeds 500 mW (27 dBm) must employ a transmit power control (TPC) mechanism, giving the device the capability of operating at least 6 dB below the mean EIRP of 30 dBm.

3.2.1.2 Radar Detection Function of Dynamic Frequency Selection

UNII devices that operate with any part of their 26 dB emission bandwidth in the UNII-2 bands must employ a DFS radar detection mechanism to avoid co-channel operation with radar systems. Upon detection of radar signals, the channel must be flagged as containing a radar system and must not be utilized for at least 30 minutes (“Non-occupancy Period”).

All DFS devices must fulfil the Channel Move Time requirement, forcing all transmissions to cease operating on a channel within 10 seconds of detecting a radar signal. Transmissions may continue with normal traffic for a maximum of 200 ms after the detection of radar, but only control and management signals may exist after 200 ms to assist in the vacating of the occupied channel. Control and management signals are not allowed after 10 seconds.

Only DFS devices operating as a master device must fulfil the Channel Availability Check time requirement. Master devices must check if there are radar signals already operating on a channel before initiating transmission (or changing channels). If no radar signals are detected above the DFS detection threshold within 60 seconds, the channel may be utilized. Initial channel selection may be either randomly selected or manually selected.

The DFS detection threshold is -64 dBm for devices with a maximum e.i.r.p. between 200 mW and 1 W. Devices for which e.i.r.p. is less than 200 mW and for which maximum power spectral density is less than 10 dBm per 1 MHz band shall have a DFS threshold of -62 dBm.

Radar signals must be detected at 100 percent of the device’s emission bandwidth. DFS detection threshold is the received power averaged over 1 μ s and referenced to a 0 dBi antenna.

Some standards such as IEEE 801.11.ax allow wideband transmissions that are “notched” or “punctured” upon radar detection (e.g., 160 MHz wideband transmissions wherein a 20 MHz portion of the bandwidth is not utilized). For such transmission schemes, the remaining emissions of the notched signal shall not bleed into the notch (i.e., 26 dB or 99% bandwidth is outside the notch). Channel closing and moving times must be met when notches are utilized.

3.2.1.3 Additional Requirements for UNII Devices

UNII devices are subject to requirements imposed by the National Environmental Policy Act. Manufacturers are responsible for applying RF radiation exposure requirements specified in 47 CFR 1.1307(b), 2.1091, and 2.1093 as appropriate (47 CFR 15.407(f)). Such requirements include (but are not limited to) routine environmental evaluation for RF exposure prior to equipment authorization or use (47 CFR 1.1307(b)(2)(i)) and additional evaluation of RF radiation exposure for mobile and portable devices (47 CFR 2.1091 and 2.1093, respectively).

3.3 Test Procedure

VPI Technology, Inc. is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Lab Code: 100272-0, which is effective until September 30, 2026. VPI Technology, Inc. carries FCC Accreditation Designation Number US5263. VPI Technology main office is located at 313 W 12800 S, Suite 311, Draper, UT 84020. The testing was performed according to the procedures in ANSI C63.10-2013, KDB 789033, and 47 CFR Part 15. Testing was performed at the VPI Technology, Inc. Wanship Upper Open Area Test Site, located at 29145 Old Lincoln Highway, Wanship, UT. This location is listed on NVLAP scope under the lines for C63.4 and C63.10.

4 Operation of EUT During Testing

4.1 Operating Environment

Power Supply	120 VAC
AC Mains Frequency	60 Hz

4.2 Operating Modes

EUT and Master Device were set to operate in A-Mode on UNII2 Channel 100 and N-mode on UNII2 Channel 140 (5700 MHz). EUT is a Client Without Radar Detection and only capable of operation at 20 MHz bandwidth. Direct connect test setup described in Section 7.2 of KDB 905462 D02 for Client with Injection at Master was utilized:

7.2.2 Setup for Client with injection at the Master

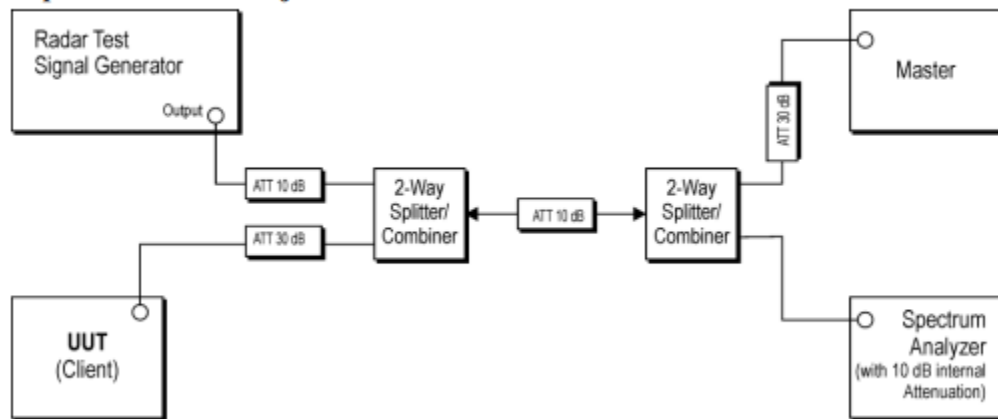


Figure 1: Test Setup for Radar Injection at the Master Device (KDB 905462 D02 v02, p.16)

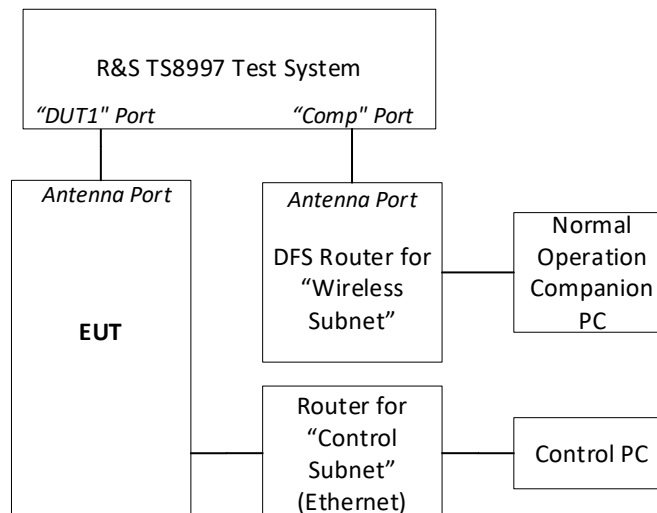


Figure 2: EUT and DFS Router Configuration

4.3 EUT Exercise Software

EUT had no special exercise software and operated normally for DFS testing.

5 Summary of Test Results

5.1 FCC Part 15, Subpart E

5.1.1 Summary of Tests

Section	Environmental Phenomena	Result
15.407(h)(2)	DFS Radar Detection Threshold	Note 1
15.407(h)(2)(ii)	DFS Channel Availability Check Time	Note 1
15.407(h)(2)(iii)	DFS Channel Closing Transmission Time	Complied
15.407(h)(2)(iii)	DFS Channel Move Time	Complied
15.407(h)(2)(iv)	DFS Non-Occupancy Period	Complied
Note 1: EUT is a Client Without Radar Detection and this requirement is not applicable.		

5.2 Result

In the configuration tested, the EUT complied with the requirements of the specification.

6 Measurements, Examinations and Derived Results

6.1 General Comments and Results

This section contains the test results only. Details of the test methods used and a list of the test equipment used during the measurements can be found in Section 7 of this report.

6.2 Test Results for the UNII 2 Band (5250-5725 MHz)

6.2.1 802.11a Mode

6.2.1.1 §15.407(h)(2) DFS (UNII 2)

EUT is a Client device and does not contain In-Service Monitoring. EUT was tested on Channel 100 (5500 MHz) with a Netgear R7000 Router (FCC ID #PY313200233) as the Master Device.

Radar Detection (UNII 2)

EUT does not operate as a Master device in the UNII-2 Band and cannot detect radar in the configurations tested.

Result

In the configurations tested the EUT complied with the requirements of the specification.

Master Device Channel Availability Check Time (UNII 2)

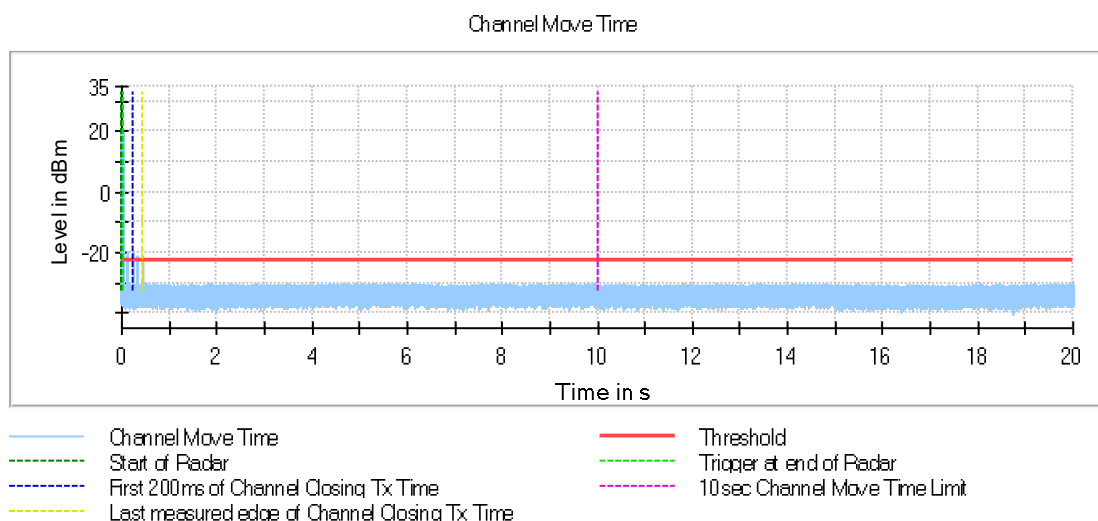
EUT does not operate as a master device in the UNII-2 Band and cannot detect radar in the configurations tested.

Result

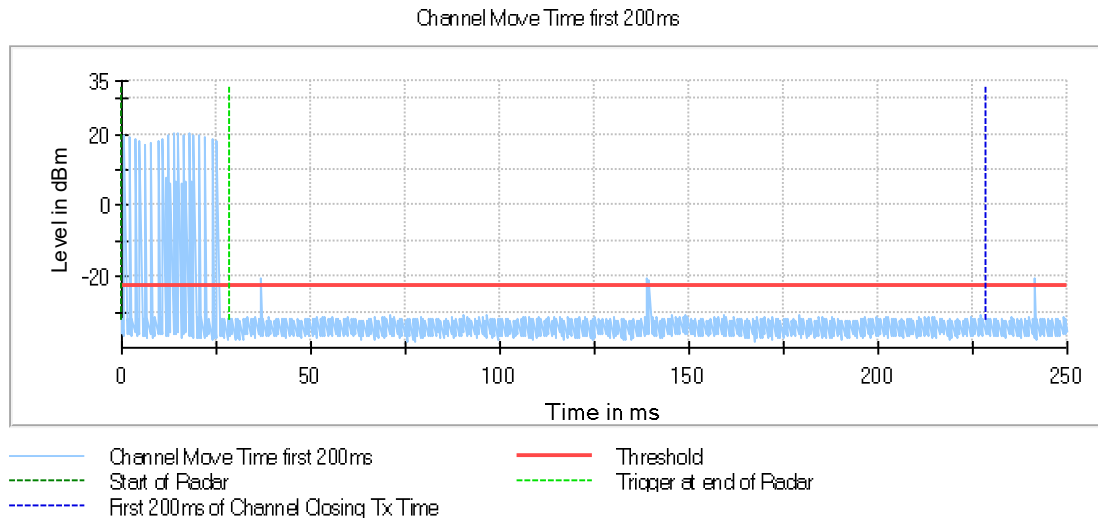
In the configurations tested the EUT complied with the requirements of the specification.

Channel Closing Transmission Time and Channel Move Time (UNII 2)

Upon receiving a clear channel command from a Master device, EUT cleared transmissions within 10 seconds.



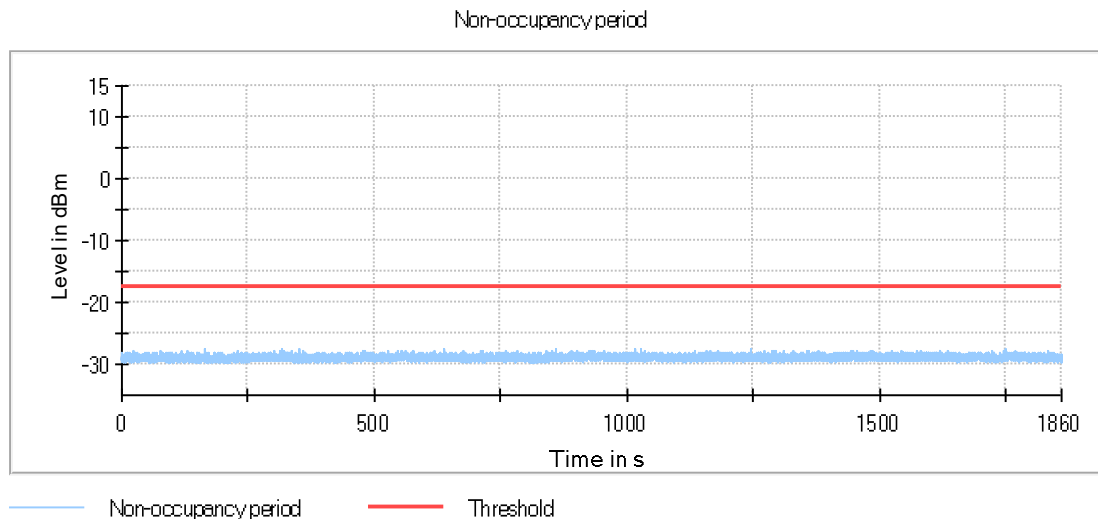
Graph 1: EUT 5500 MHz Channel Close Time and Channel Move Time



Graph 2: EUT 5500 MHz First 250 ms (Channel Closing Tx Time)

Channel Non-Occupancy Period (UNII 2)

Upon receiving Clear Channel command, EUT did not transmit in that channel for 30 minutes.



Graph 3: EUT 5500 MHz Non-Occupancy Period of 30 minutes.

Result

In the configurations tested the EUT complied with the requirements of the specification.

6.2.2 802.11n Mode

6.2.2.1 §15.407(h)(2) DFS (UNII 2)

EUT is a Client device and does not contain In-Service Monitoring. EUT was tested on Channel 140 (5700 MHz) with a Netgear R7000 Router (FCC ID #PY313200233) as the Master Device.

Radar Detection (UNII 2)

EUT does not operate as a Master device in the UNII-2 Band and cannot detect radar in the configurations tested.

Result

In the configurations tested the EUT complied with the requirements of the specification.

Master Device Channel Availability Check Time (UNII 2)

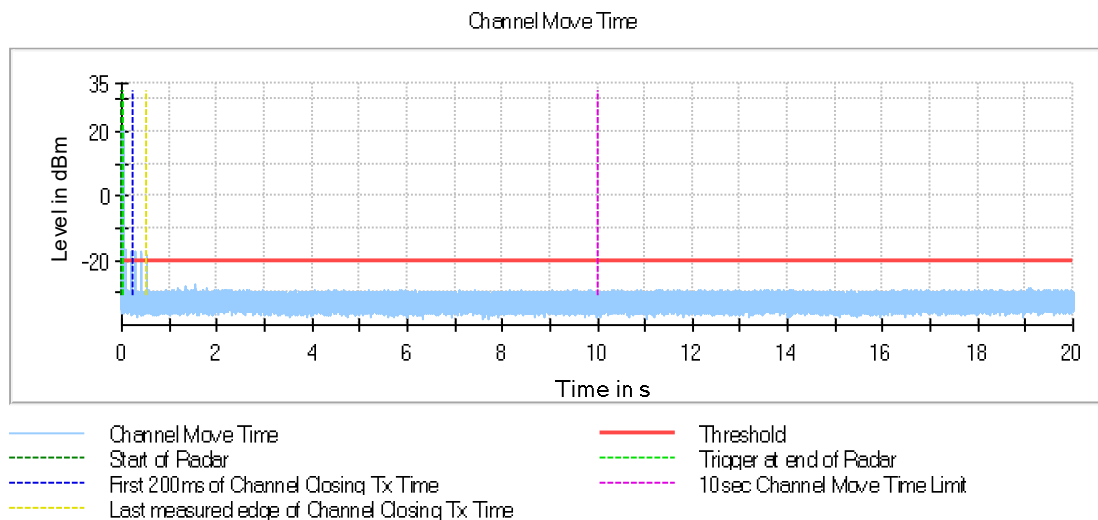
EUT does not operate as a master device in the UNII-2 Band and cannot detect radar in the configurations tested.

Result

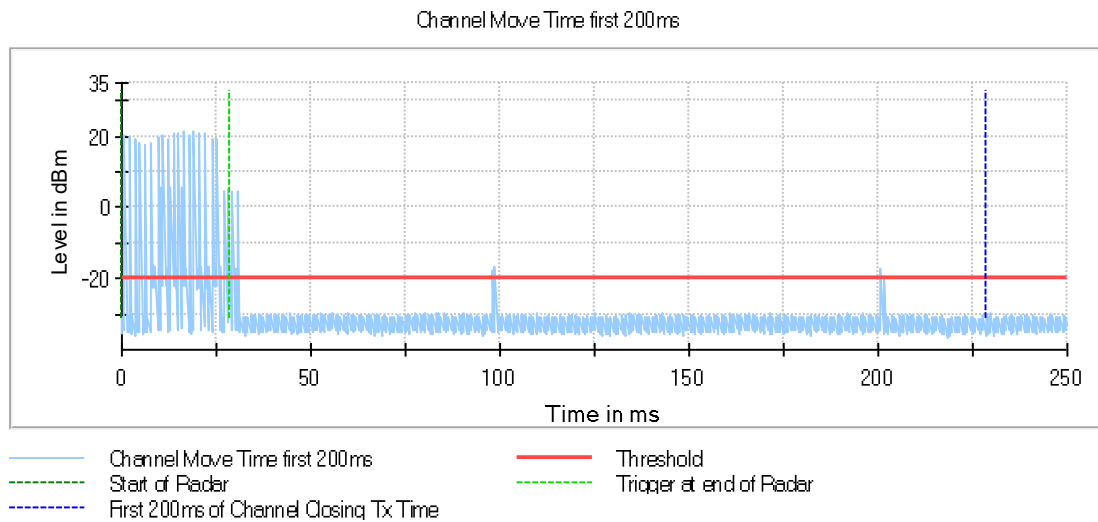
In the configurations tested the EUT complied with the requirements of the specification.

Channel Closing Transmission Time and Channel Move Time (UNII 2)

Upon receiving a clear channel command from a Master device, EUT cleared transmissions within 10 seconds.



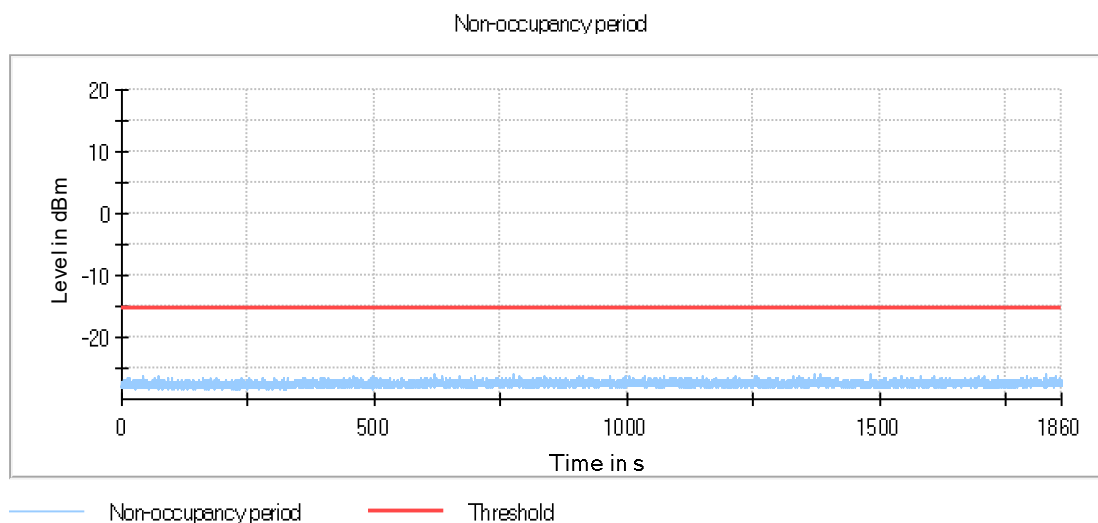
Graph 4: EUT 5700 MHz Channel Close Time and Channel Move Time



Graph 5: EUT 5700 MHz First 200 ms (Channel Closing Tx Time)

Channel Non-Occupancy Period (UNII 2)

Upon receiving Clear Channel command, EUT did not transmit in that channel for 30 minutes.



Graph 6: EUT 5700 MHz Non-Occupancy Period of 30 minutes.

Result

In the configurations tested the EUT complied with the requirements of the specification.

7 Test Procedures and Test Equipment

7.1 Direct Connection at the Antenna Port Test

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
40GHz Switch Extension	Rohde & Schwarz	OSP-150	V044486	09/25/2023	09/25/2026
40GHz Switch Base Unit	Rohde & Schwarz	OSP-120	V044487	03/23/2022	12/31/2025
Spectrum Analyzer/ Signal Analyzer	Rohde & Schwarz	FSV40	V044352	03/05/2024	03/05/2026
Signal Generator	Rohde & Schwarz	SMB100A	V044485	04/03/2023	12/31/2025
Vector Signal Generator	Rohde & Schwarz	SMBV100A	V044217	03/08/2022	12/31/2025
6' High Frequency Cable	Microcoax	UFB197C-0-0720-000000	V033638	12/19/2024	12/19/2025

Table 1: List of equipment used for conducted emissions testing at antenna ports.

7.1.1 Test Configuration Block Diagram

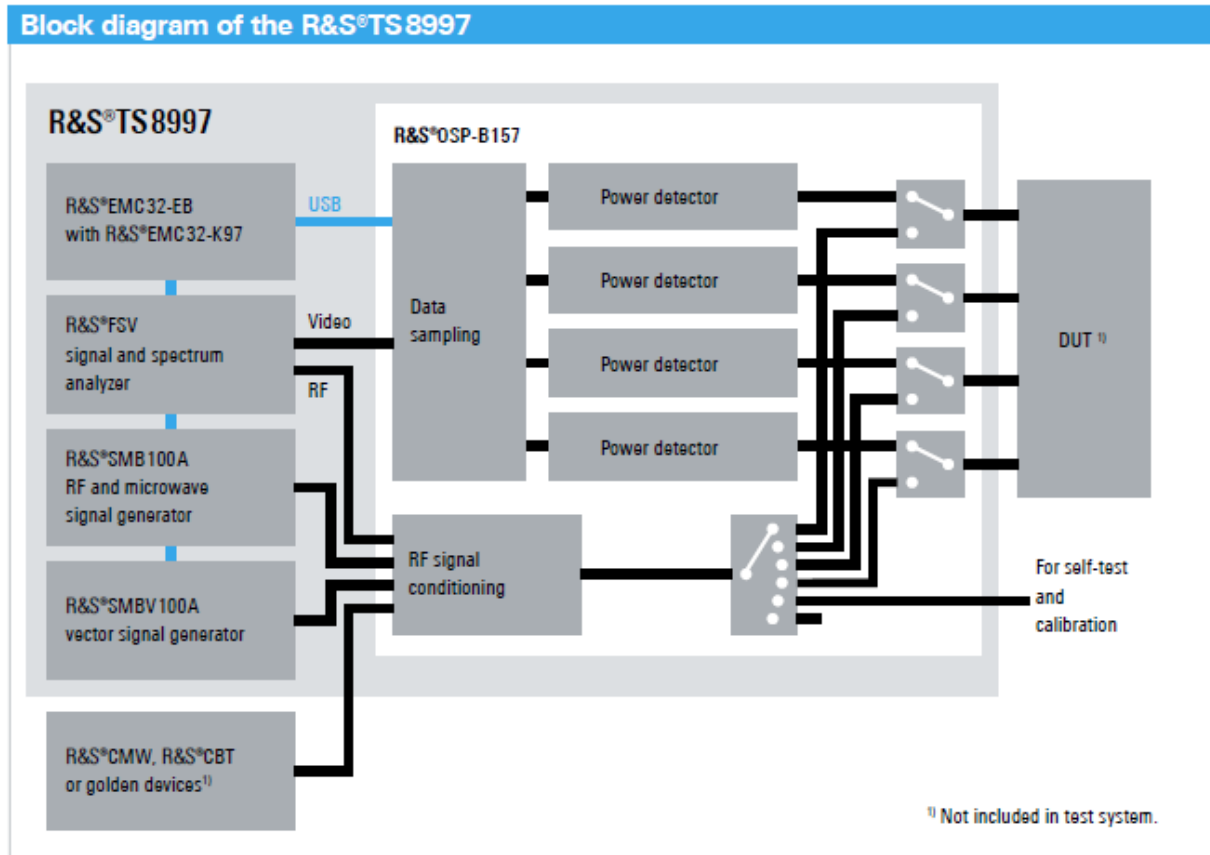


Figure 1: Direct Connection at the Antenna Port Test

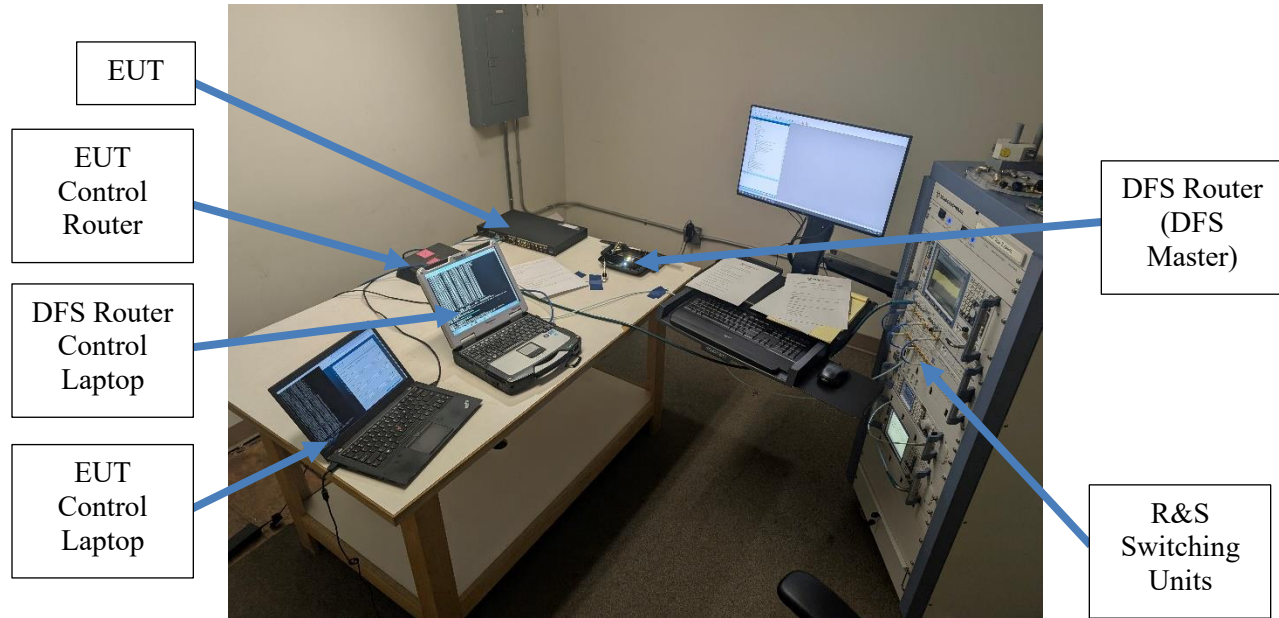
7.2 Equipment Calibration

All applicable equipment is calibrated using either an independent calibration laboratory or VPI Laboratories, Inc. personnel at intervals defined in ANSI C63.4:2014 following outlined calibration procedures. All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to tractability is on file and is available for examination upon request.

7.3 Measurement Uncertainty

Test	Uncertainty ($\pm$ dB)	Confidence (%)
Conducted Emissions	2.8	95
Radiated Emission (9 kHz to 30 MHz)	3.3	95
Radiated Emissions (30 MHz to 1 GHz)	3.4	95
Radiated Emissions (1 GHz to 18 GHz)	5.0	95
Radiated Emissions (18 GHz to 40 GHz)	4.1	95

8 Photographs



Photograph 1: Antenna Port Conducted DFS Test Configuration

--- End of Report ---