

TEST REPORT

Report Number : R16197846-C1

Applicant : Sonos, Inc
301 Coromar Dr
Goleta, CA 93117
United States

Model : S59 Fronthaul

Brand : Sonos, Inc

FCC ID : SBVRM059

IC : 5373A-RM059

EUT Description : Wireless Smart Speaker

Test Standard(s) : CONTENTION BASED PROTOCOL PORTION of
FCC 47 CFR PART 15 SUBPART E, KDB 987594
CONTENTION BASED PROTOCOL PORTION of
RSS-248, ISSUE 3

Date Of Issue:
2026-07-02

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Sonos, Inc
301 Coromar Dr
Goleta, CA 93117
United States

EUT DESCRIPTION: Wireless Smart Speaker

MODEL: S59 Fronthaul

SERIAL NUMBER: 000E58F8AACAB

DATE TESTED: 2026-03-11 to 2026-03-13

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
Contention Based Protocol Portion of 47 CFR Part 15 Subpart E, KDB 987594	Complies
Contention Based Protocol Portion of RSS-248, Issue 3	Complies

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

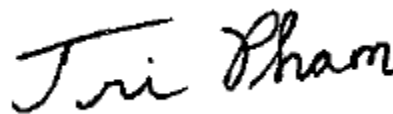
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Approved & Released For
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Laboratory Engineer
CONSUMER TECHNOLOGY DIVISION
UL LLC

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the Contention Based Protocol portion of

- FCC 47 CFR Part 15 Subpart E
- FCC KDB 987594 D01 U-NII 6GHz General Requirements
- FCC KDB 987594 D02 U-NII 6GHz EMC Measurement
- FCC KDB 987594 D03 U-NII 6 GHz QA
- FCC KDB 987594 D04 UN6GHZ Pre-Approval Guidance Checklist
- RSS-248 Issue 3

3. SUMMARY OF TEST RESULTS

Requirement Description	Result	Remarks
Contention Based Protocol Portion of FCC 47 CFR PART 15 SUBPART E, KDB 987594	Complies	None
Contention Based Protocol Portion of RSS-248, Issue 3	Complies	None

4. REFERENCE DOCUMENTS

This report contains data provided by the customer which can impact the validity of results. UL LLC is only responsible for correctly integrating customer-provided data with measurements performed by UL LLC.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 8.1)

5. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification # 0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building: 12 Laboratory Dr RTP, NC 27713, U.S.A	US0067	2180C	825374
☒	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A		27265	

6. DECISION RULES AND MEASUREMENT UNCERTAINTY

6.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

6.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement).

6.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Power Spectral Density	2.47 dB
RF Power Measurement Direct Method Using Power Meter	1.3 dB (PK) / 0.45 dB (AV)
Unwanted Emissions, Conducted	1.94 dB
Worst Case Conducted Disturbance, 9kHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9kHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB
Time Domain Measurements	0.02%
Temperature	0.57°C
Humidity	3.39%
DC Supply Voltages	0.57%

Uncertainty figures are valid to a confidence level of 95%.

7. CONTENTION BASED PROTOCOL

7.1. OVERVIEW

7.1.1. LIMITS

FCC

FCC Part 15 Subpart E, FCC KDB 987594 “U-NII 6 GHz devices operating in the 5.925-7.125 GHz band”; Section I.

INNOVATION, SCIENCE and ECONOMIC DEVELOPMENT CANADA (ISED)

Per Section 4.7.2 of RSS-248:

“The Federal Communications Commission’s accepted KDB procedure KDB 987594 D02 listed on ISED’s Certification and Engineering website (see the Normative Test Standards and Acceptable Alternate Procedures page) shall be used to demonstrate the compliance of a device with the contention based protocol requirements set out in this section:.

7.1.2. FREQUENCY BANDS AND GOVERNING RULES

FCC

Band	Frequency (GHz)	Rules	Notes	KDB/Publication
U-NII 5	5.925-6.425	15.407(a)(4) – (8)	Low Power Indoor AP, Subordinates, Indoor Clients Standard Power AP, Fixed , Standard Clients, Dual Client & VLP	789033 (U-NII) 987594 (6 GHz Band)
U-NII 6	6.425-6.525	15.407(a)(5), (6), (8)	Low Power Indoor AP, Subordinates, Indoor Clients, Dual Client & VLP	
U-NII 7	6.525-6.875	15.407(a)(4) – (8)	Low Power Indoor AP, Subordinates, Indoor Clients Standard Power AP, Fixed Standard Clients, Dual Client & VLP	
U-NII 8	6.875 -7.125	15.407(a)(5), (6), (8)	Low Power Indoor AP, Subordinates, Indoor Clients, Dual Client & VLP	
The transition period ended on June 2, 2015, for marketing DTS in the 5 GHz Band.				

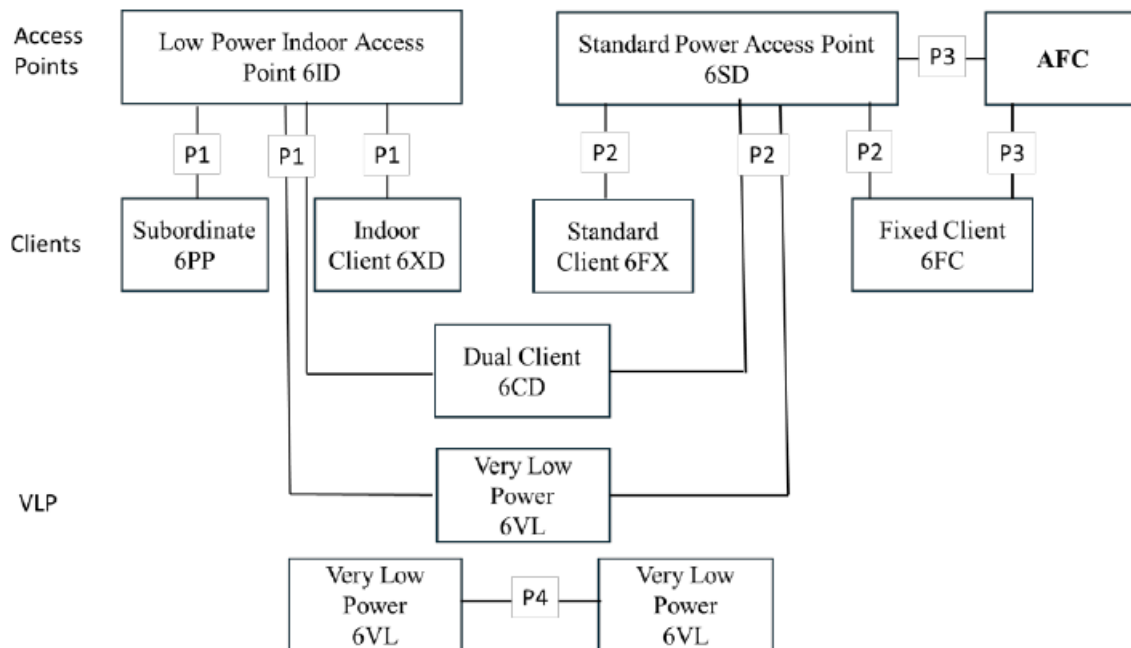
Table 1: Overview of U-NII Rules

ISED

Band	Frequency (GHz)	Rules	Notes	KDB/Publication
U-NII 5	5.925-6.425	RSS 248 - Section 4.2	Low-Power indoor AP, indoor subordinate devices, low-power client devices, Standard Power AP, Fixed client devices, standard client devices, dual client devices & VLP	RSS 248 987594 D02
U-NII 6	6.425-6.525	RSS 248 - Section 4.2	Low-Power indoor AP, indoor subordinate devices, low-power client devices, Standard Power AP, Fixed client devices, standard client devices, dual client devices & VLP	
U-NII 7	6.525-6.875	RSS 248 - Section 4.2	Low-Power indoor AP, indoor subordinate devices, low-power client devices, Standard Power AP, Fixed client devices, standard client devices, dual client devices & VLP	
U-NII 8	6.875 -7.125	RSS 248 - Section 4.2	Low-Power indoor AP, indoor subordinate devices, low-power client devices, dual client devices & VLP	

7.1.3. EQUIPMENT CLASSIFICATIONS

There are seven applicable equipment classes for U-NII 6 GHz device certifications, as illustrated in Figure 1. Multiple equipment classes can apply to one FCC ID. Equipment classes categorize the certification record by the different technical rules that apply.



DEFINITION OF EQUIPMENT CLASSES

1. 6ID: 15E 6 GHz Low power indoor access point.
2. 6PP: 15E 6 GHz Subordinate indoor device. These devices are under control of a Low power indoor access point (P1).
3. 6XD: 15E 6 GHz Low power Indoor client. These devices are under control of a low power indoor access point (P1).
4. 6SD: 15E 6 GHz Standard power access point. These devices are managed by the Automatic Frequency Coordination (AFC) system.
5. 6CD: 15E 6 GHz Dual client. These devices are under control of either a low power indoor access point (6ID) (P1) or Standard power access point (P2).
6. 6FX: 15E 6 GHz Standard client. These devices are under control of a Standard power access point (P2).
7. 6FC: 15E 6 GHz Fixed client. These devices are associated with a standard power access point (P3).
8. 6VL: 15E 6 GHz VLP device operating in U-NII bands 5-8.

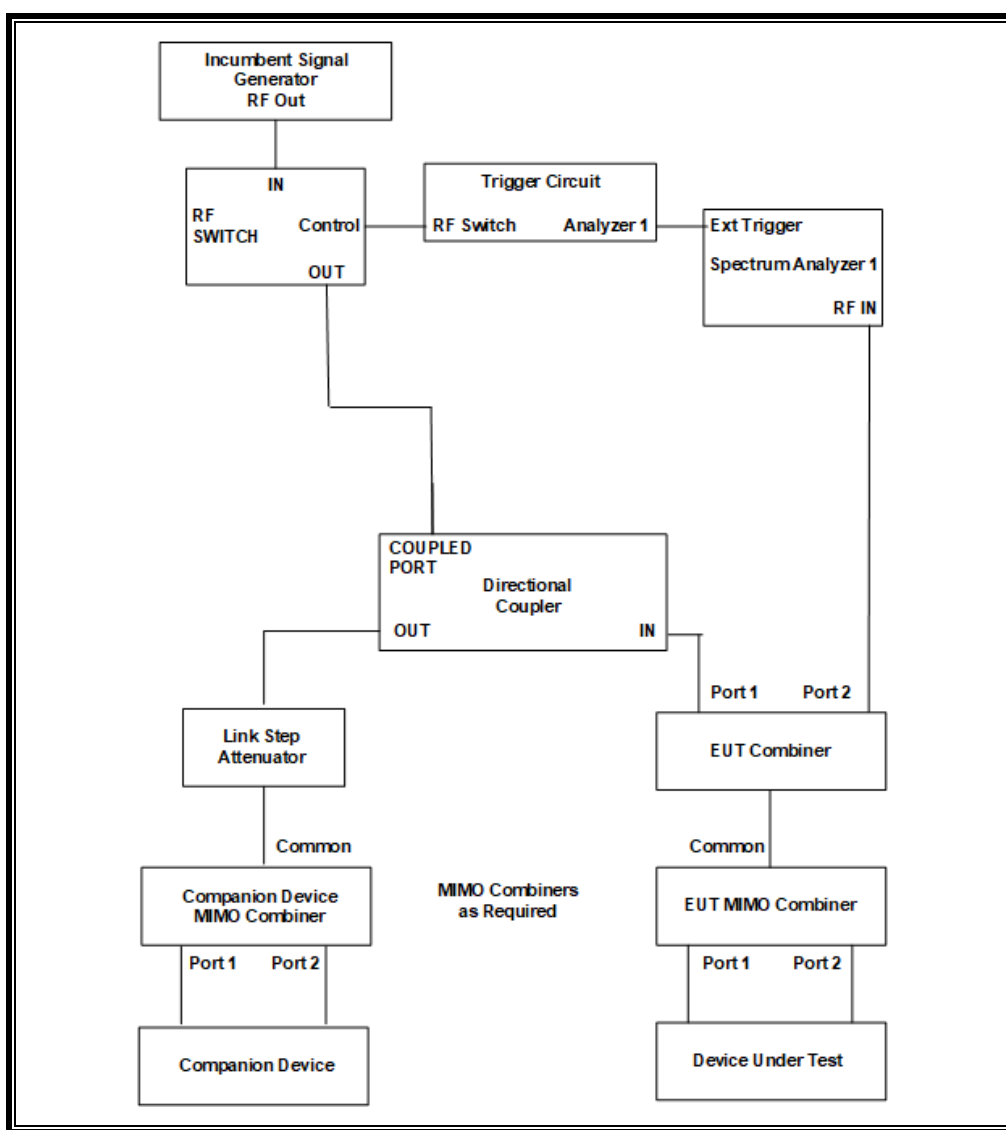
7.2. DESCRIPTION OF TEST SETUP

7.2.1. TEST AND MEASUREMENT SYSTEM

These tests were performed using a Conducted instrument configuration.

CONDUCTED TEST CONFIGURATION

NOTE: This is a comprehensive setup diagram of the receiver performance test and measurement system. Not all of the devices shown below are used for every applicable receiver test. Also, coupler port designations “IN” and “OUT” refer to labeling on the coupler, not the RF signal flow.



SYSTEM OVERVIEW

Should multiple RF ports be utilized for the EUT and/or Companion devices (for example, for diversity or MIMO implementations), combiner/dividers are inserted between the EUT MIMO Combiner/Divider and the attenuator connected to the EUT (and/or between the Companion MIMO Combiner/Divider and the attenuator connected to the Companion Device). Additional attenuators may be utilized such that there is one attenuator at each RF port on each device. This testing was performed in a MIMO configuration with four transmit/receive chains on the EUT.

SYSTEM CALIBRATION

The monitoring cable is disconnected from the spectrum analyzer and a 50-ohm load is connected to the end of the monitoring cable in place of the spectrum analyzer. The cable connected to one of the ports on the EUT is then attached to the spectrum analyzer in place of the monitoring cable. The cable connected to the other EUT port is terminated. A signal generator is then set to produce a modulated AWGN Incumbent Signal that has a 99% occupied power bandwidth of 10 MHz. The output amplitude of the signal generator is adjusted to yield the allowable maximum AWGN Incumbent Signal level as measured on the spectrum analyzer. The EUT and monitoring cables are then returned to their original configurations to perform the test.

7.2.2. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Num	Cal Date	Cal Due
Spectrum Analyzer, PXA, 3Hz to 8.4GHz	Keysight	N9030A	89232	2025-07-31	2026-07-31
Signal Generator, MXG X-Series RF Vector	Keysight	N5182B	215042	2025-03-14	2026-03-14
Frequency Extender	Keysight	N5182BX07	215272	2025-03-14	2026-03-14

Note:

1. An MXG series Signal Generator and separate external Frequency Extender module are shown in the preceding test system block diagram as a stand-alone Incumbent Signal Generator.

7.2.3. TEST AND MEASUREMENT SOFTWARE

The following test and measurement software was utilized for the tests documented in this report:

TEST SOFTWARE LIST		
Name	Version	Test / Function
PXA Read	3.1	Signal Generator Screen Capture

7.2.4. TEST ROOM ENVIRONMENT

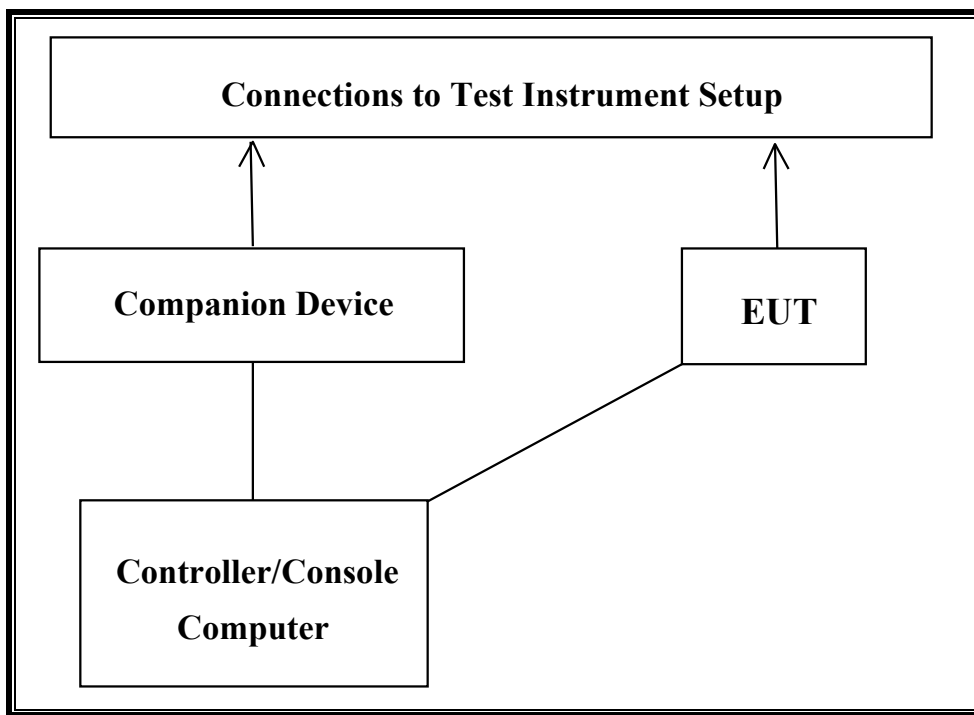
The test room temperature and humidity shall be maintained within normal temperature of 15~35 °C and normal humidity 20~75% (relative humidity).

ENVIRONMENT CONDITION

Parameter	Value
Temperature	23.7 – 24.3 °C
Humidity	27.1 – 28.9 %

7.2.5. SETUP OF EUT

CONDUCTED METHOD EUT TEST SETUP



SUPPORT EQUIPMENT

The following support equipment was utilized for the tests documented in this report:

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Companion Speaker	Sonos	S39	000E580F1A824	SBVRM039
Controller Laptop	Lenovo	20FAS4QL00	PC0KDTK6	PD98260NG
Laptop Power Supply	Lenovo	ADLX90NLC2A	N/A	N/A
RF Shielded Chamber	OctoScope	OB-26	OB2650224-01	N/A

TEST SETUP

The EUT is attached to a USB port of a host laptop computer during testing. The EUT is linked to a companion 802.11 wireless radio device. A commercial traffic generation program (iPERF) was utilized to generate traffic from the EUT to the companion radio device.

7.2.6. DESCRIPTION OF EUT

The EUT operates in the following bands: U-NII 5 (5925 MHz-6425 MHz), U-NII 6 (6425 MHz-6525 MHz), U-NII 7 (6525 MHz-6875 MHz) and U-NII 8 (6875 MHz-7125 MHz).

The EUT is classified as a 6 GHz Low power Indoor Client (Radio0) and 6 GHz Low Power Indoor Access Point (Radio1) Device.

The maximum allowable conducted AWGN Incumbent Detection Threshold level is -62 dBm. After correction for lowest antenna gain the conducted AWGN Incumbent Detection Threshold at the antenna port is $-62 + \text{antenna gain}$. This results in a maximum allowable AWGN Incumbent Detection Threshold as follows:

The EUT's Radio0 backhaul radio and Radio1 fronthaul radio each have two transmitter/receiver chains. Each radio's chains route to either of two pairs of 50-ohm coaxial antenna ports depending on its WiFi band configuration. The four total antenna ports are each connected to one of the EUT's four remote antennas to meet the diversity and MIMO requirements. To perform conducted testing, all four antenna ports are connected to the test system via a power divider.

WLAN traffic was generated by transferring a data stream from the EUT to the Companion Device using iPerf version 2.1.9 software package.

The manufacturer declares that Channel Puncturing is not supported.

The manufacturer declares that Channel Bandwidth Reduction is supported.

The EUT utilizes the 802.11ax architecture. Three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz.

The software installed in the EUT is 95.0-74100-diag-gambit-dev-rbermani-202602111627 revision

The software installed in the Companion Device is 95.0-74110-diag-graceland-rel-202602120022

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8. CONTENTION BASED PROTOCOL

8.1. LIMITS AND PROCEDURES

LIMITS

FCC Part 15 Subpart E, FCC KDB 987594 "U-NII 6 GHz devices operating in the 5.925-7.125 GHz band"; Section I.

AWGN INCUMBENT SIGNAL DETECTION THRESHOLD

FCC Part 15 Subpart E, FCC KDB 987594 "U-NII 6 GHz devices operating in the 5.925-7.125 GHz band"; Section I, Clause (c), Step 6.

For an EUT with a non-zero dBi antenna gain the maximum detection threshold level, T_L , of the 10 MHz wide AWGN Incumbent Signal at the port of the radio module in a conducted test setup shall be no greater than -62 dBm. It shall be adjusted by the gain of the bypassed antenna as shown in the table below:

Band	Frequency Range (MHz)	Antenna Gain (dBi)	T_L at Radio Port (dBm/MHz)
U-NII 5	5925 to 6425	1.9	-60.1
U-NII 6	6425 to 6525	1.1	-60.9
U-NII 7	6525 to 6875	0.8	-61.2
U-NII 8	6875 to 7125	0.9	-61.1

Testing was performed based upon an assumed minimum peak antenna gain provided by the manufacturer that is less than the lowest gain antenna assembly that will be utilized with the device. The resulting Interferer amplitude is lower than the standard requires and therefore more stringent.

TEST PROCEDURE

FCC Part 15 Subpart E, FCC KDB 987594 "U-NII 6 GHz devices operating in the 5.925-7.125 GHz band"; Section I, Clause (c).

Testing is performed by starting at a level much lower than required detection level and then the level is increased.

Only the lowest and highest supported channel bandwidths are required to be tested.

8.2. U-NII 5 LOW BANDWIDTH RESULTS

8.2.1. TEST CHANNEL

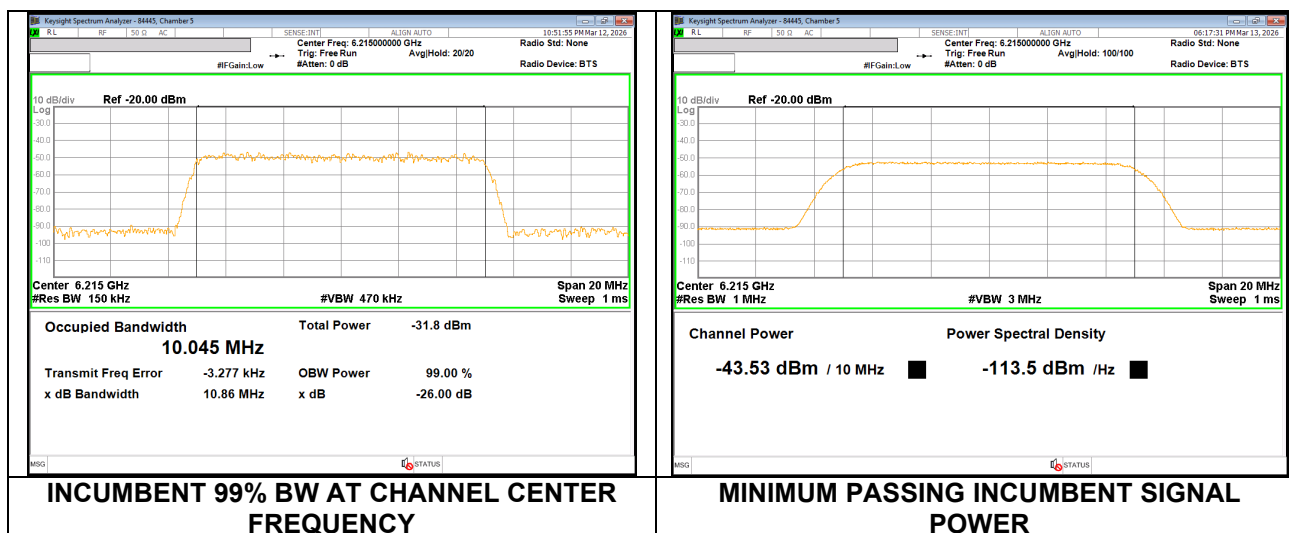
All tests were performed with the EUT set to a channel center frequency of 6215 MHz and a nominal channel bandwidth of 20 MHz.

TEST CONDITION 2 CRITERIA

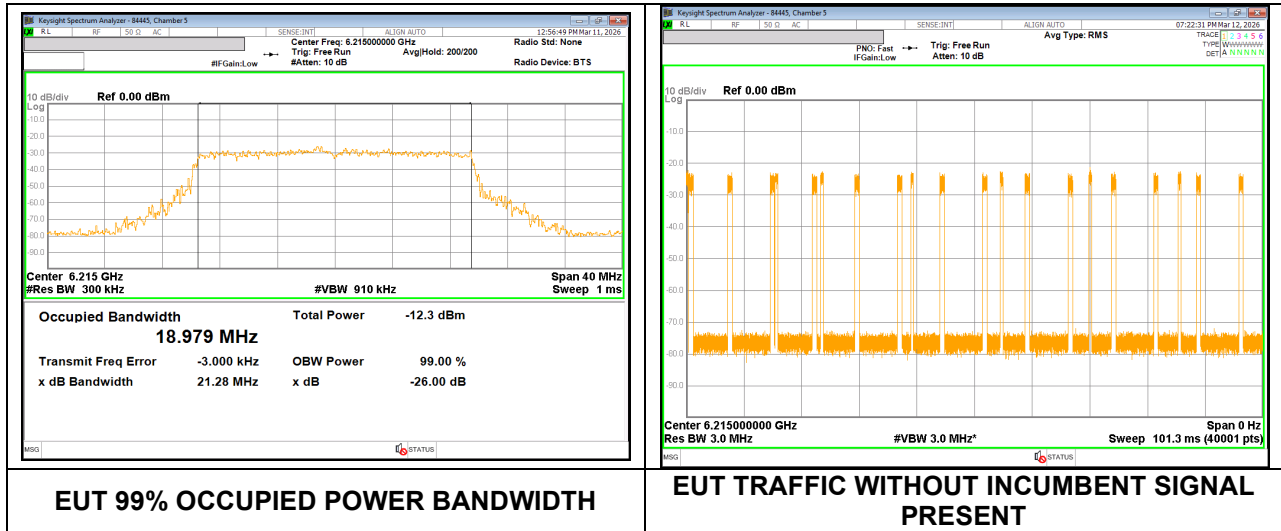
$$99\% BW_{INC} < 99\% BW_{EUT} \leq 2 \times 99\% BW_{INC}$$

8.2.2. INCUMBENT SIGNAL PLOTS

All tests were performed with the Incumbent Signal frequency set to the test channel center frequency and a nominal 99% Occupied Power Bandwidth of 10 MHz.

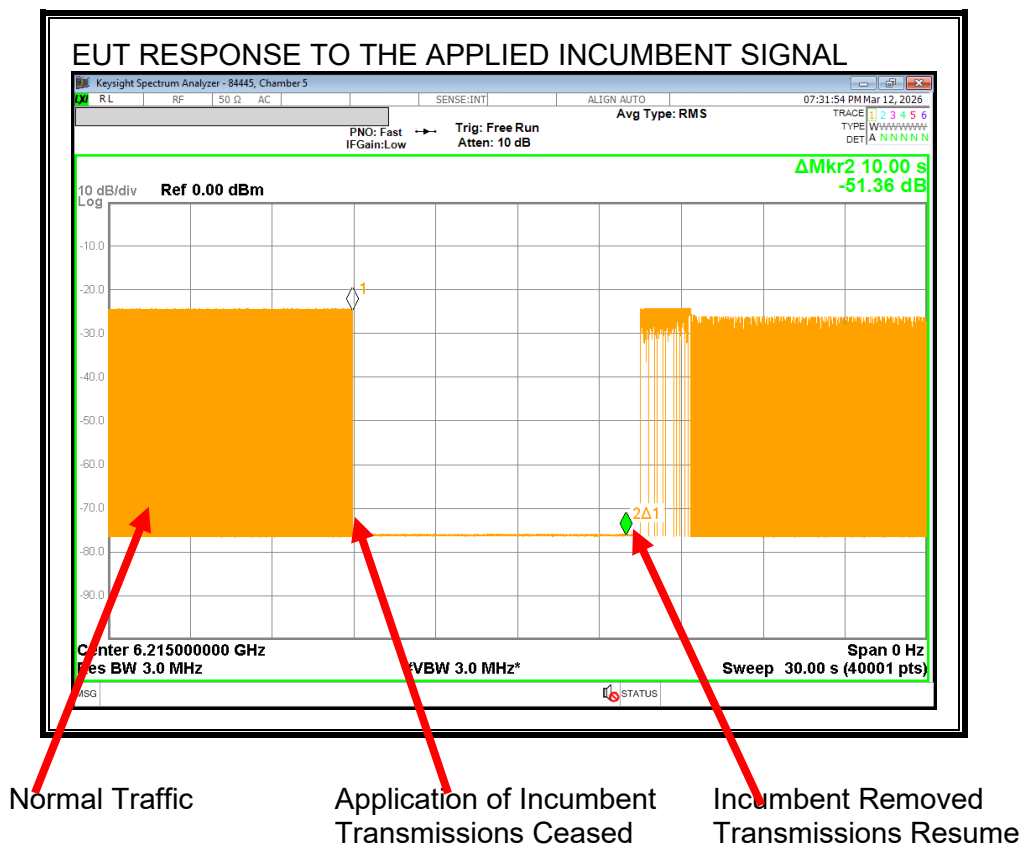


8.2.1. EUT TRANSMISSION PLOTS



EUT RESPONSE TO THE APPLIED INCUMBENT SIGNAL

A link between the EUT and the Companion Device was established on the test channel. Traffic flowing from the EUT to the Companion Device was then initiated. A sweep was started and the incumbent signal was continuously applied at approximately 9 seconds after the start of the sweep for a minimum duration of 10 seconds and removed after the end of the observation period. Markers are placed at the beginning and end of the observation period.



Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed

8.2.2. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2026-03-11 to 2026-03-13
Tested By	84445
Test Location	Chamber 5

EUT Channel Center Frequency, f_{c1} (MHz)	6215
EUT Nominal Channel Bandwidth (MHz)	20
99% Occupied Bandwidth of the EUT (MHz)	18.979
EUT 99% OBW Lower Edge, F_L (MHz)	6205.51
EUT 99% OBW Upper Edge, F_H (MHz)	6224.49
Test Frequency of Incumbent Signal (MHz)	6215
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	1.90
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-60.1
Lowest Passing Measured Incumbent Signal Amplitude at Text Fixture (dBm)	-43.53
Text Fixture Cable Loss	27.46
Lowest Passing Measured Incumbent Signal Amplitude (dBm)	-70.99
Margin (dBm)	-10.89
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	100%

A minimum detection rate of 90% is required for the EUT to be compliant.

8.2.3. Tx OPERATIONAL STATUS TEST RESULTS

Test Condition 2: $99\% BW_{INC} < 99\% BW_{EUT} \leq 2 \times 99\% BW_{INC}$

Test Date	2026-03-11 to 2026-03-13
Tested By	84445
Test Location	Chamber 5

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-43.53	27.46	-70.99	1.90	-72.89	-62	Ceased
-46.54	27.46	-74.00	1.90	-75.90	-62	Minimal
-53.53	27.46	-80.99	1.90	-82.89	-62	Normal

8.3. U-NII 5 HIGH BANDWIDTH RESULTS

8.3.1. TEST CHANNEL

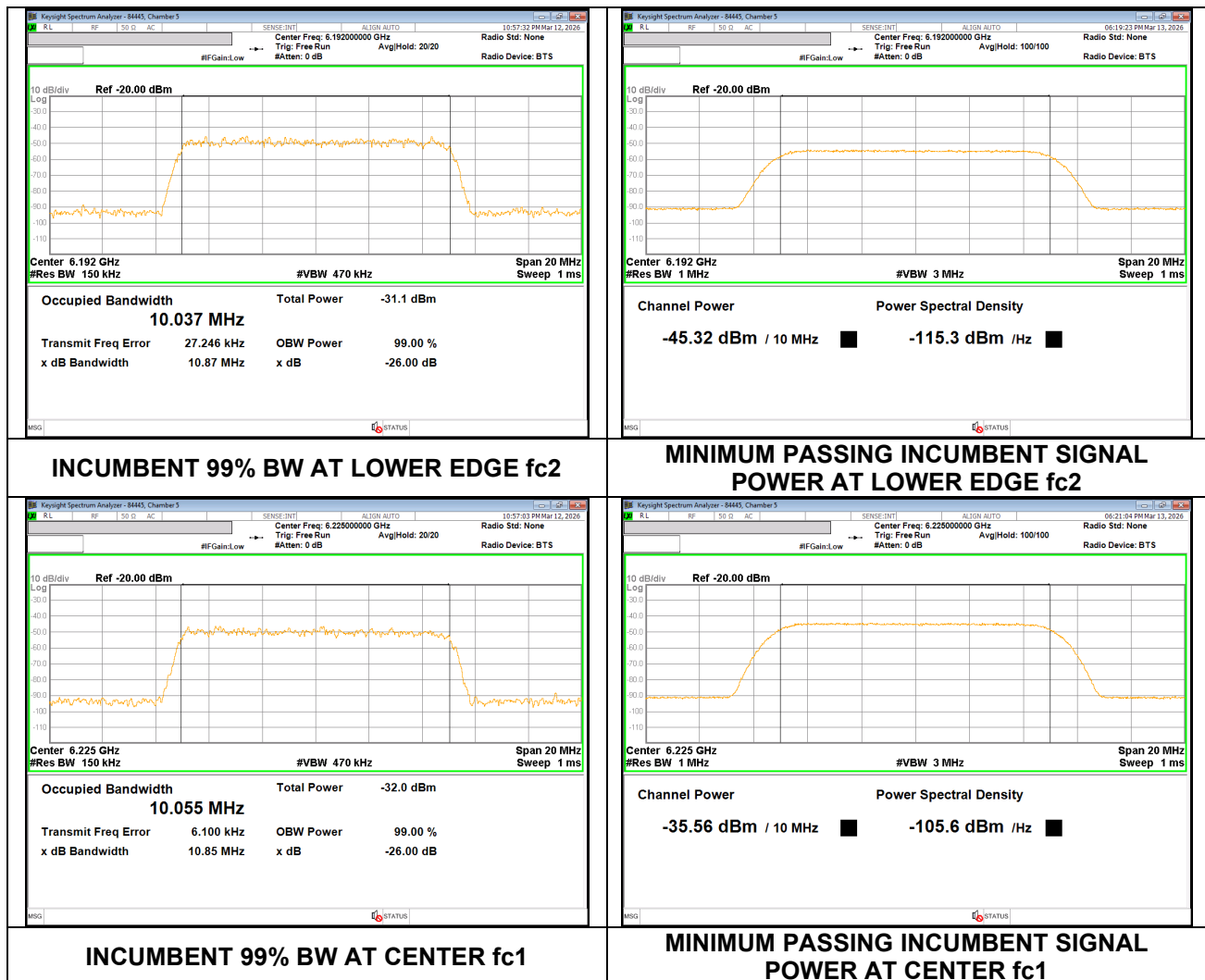
All tests were performed with the EUT set to a channel center frequency of 6225 MHz and a nominal channel bandwidth of 80 MHz.

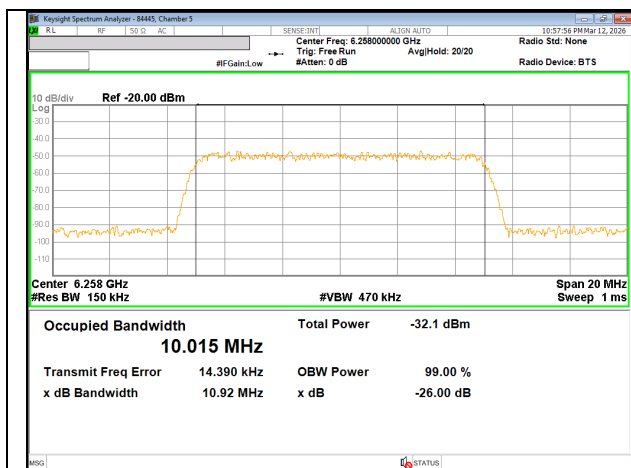
TEST CONDITION 4 CRITERIA

$$99\% BW_{EUT} > 4 \times 99\% BW_{INC}$$

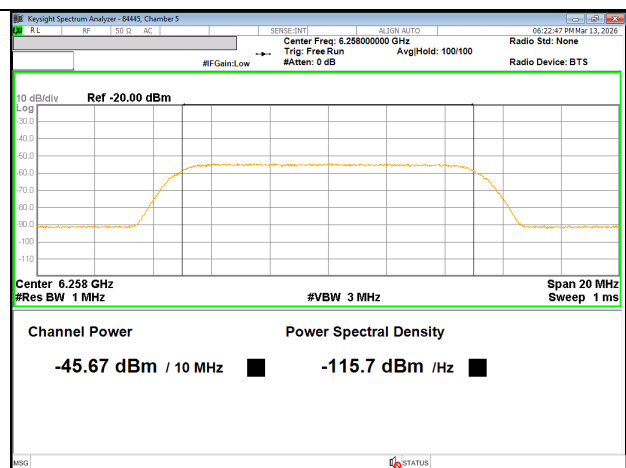
8.3.2. INCUMBENT SIGNAL PLOTS

All tests were performed with the Incumbent Signal frequency set to the test channel center frequency and a nominal 99% Occupied Power Bandwidth of 10 MHz.



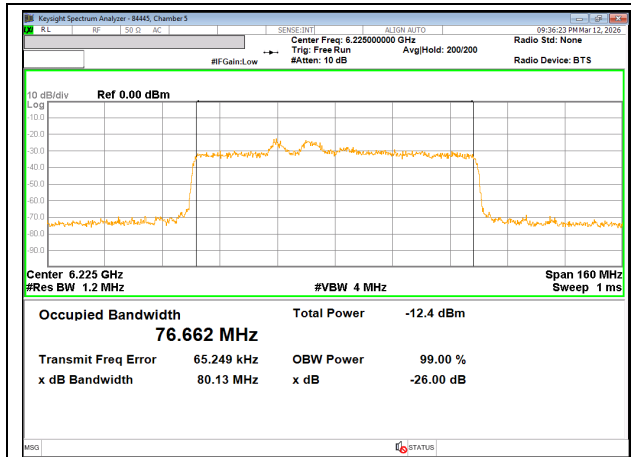


INCUMBENT 99% BW AT UPPER EDGE fc3

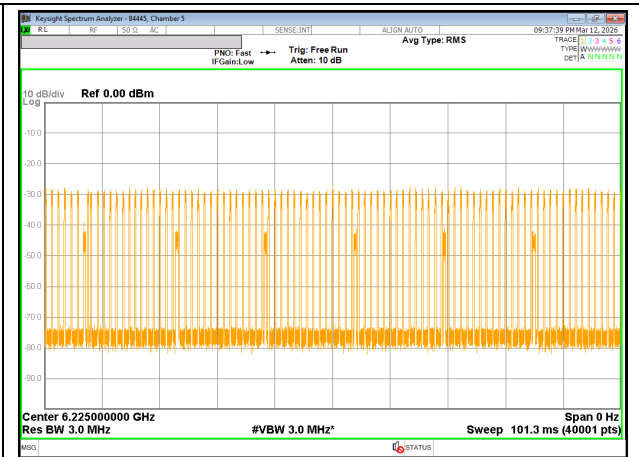


MINIMUM PASSING INCUMBENT SIGNAL
POWER AT UPPER EDGE fc3

8.3.3. EUT TRANSMISSION PLOTS



EUT 99% OCCUPIED POWER BANDWIDTH

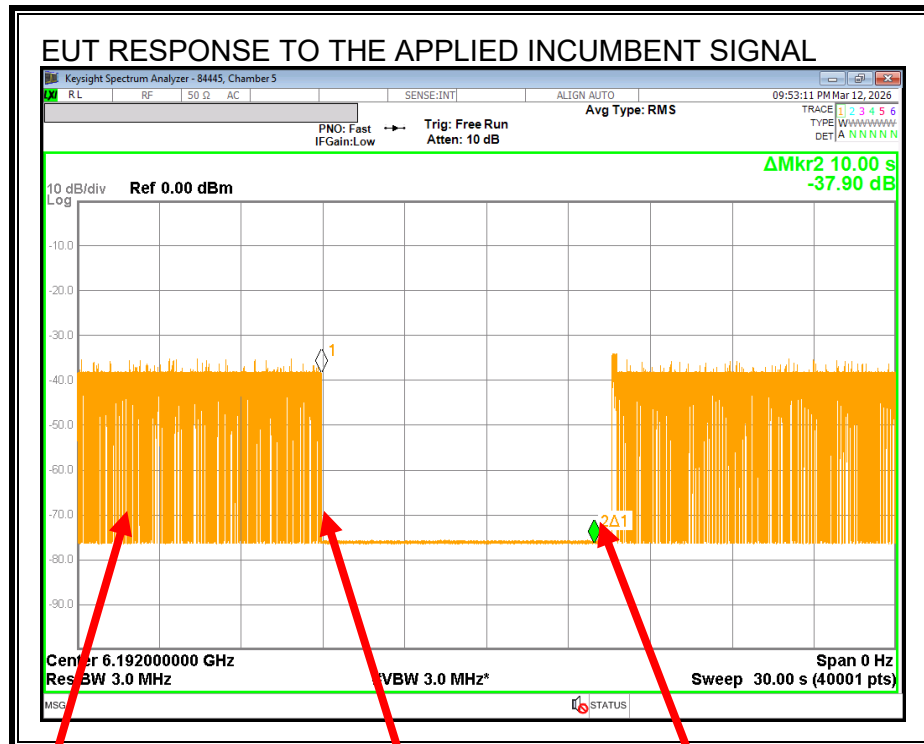


**EUT TRAFFIC WITHOUT INCUMBENT SIGNAL
PRESENT**

EUT RESPONSE TO THE APPLIED INCUMBENT SIGNAL

A link between the EUT and the Companion Device was established on the test channel. Traffic flowing from the EUT to the Companion Device was then initiated. A sweep was started and the incumbent signal was continuously applied at approximately 9 seconds after the start of the sweep for a minimum duration of 10 seconds and removed after the end of the observation period. Markers are placed at the beginning and end of the observation period.

Lower Edge Incumbent Signal f_{c2} :



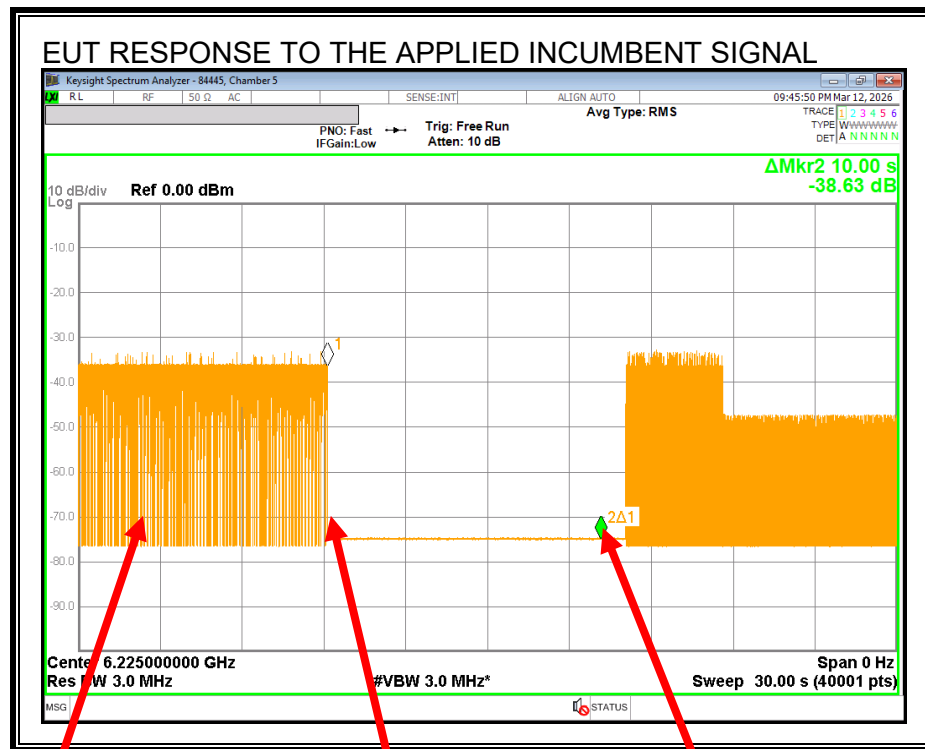
Normal Traffic

Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed

Center Frequency Incumbent Signal f_{c1} :



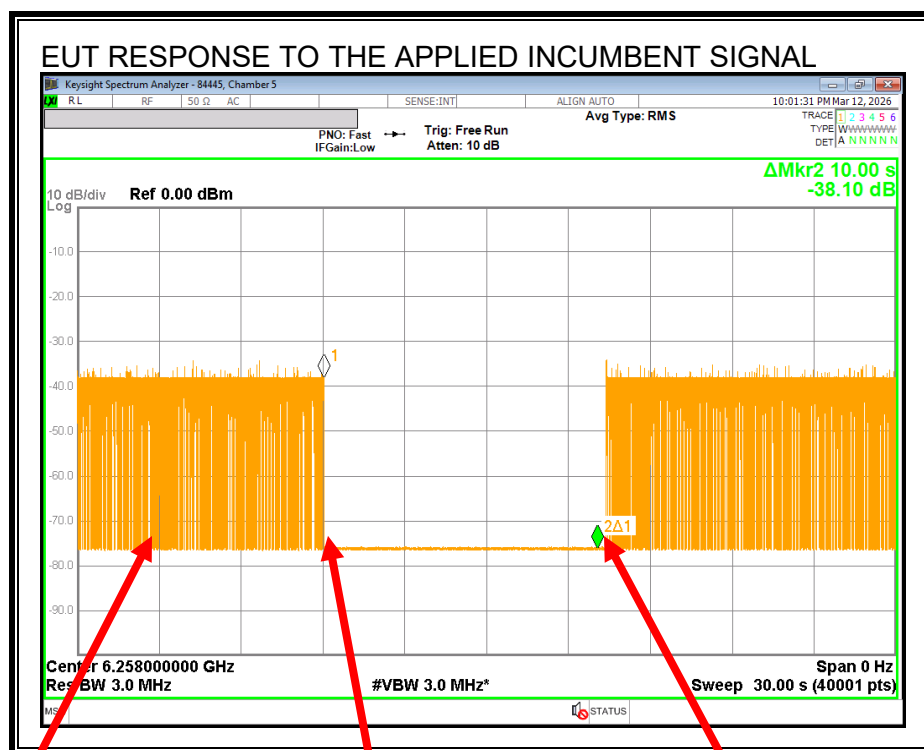
Normal Traffic

Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed

Upper Edge Incumbent Signal f_{c3} :



Normal Traffic

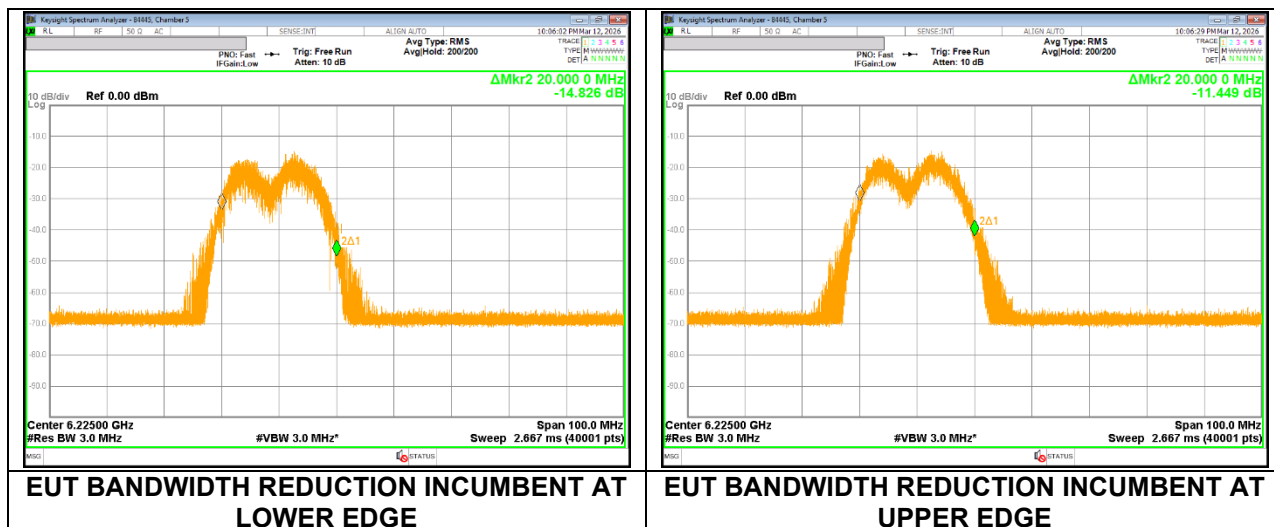
Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed

EUT BANDWIDTH REDUCTION

The EUT is allowed to continue operating at a reduced bandwidth in the presence of the Incumbent Signal, so long as the EUT transmissions do not overlap with the channel used by the Incumbent Signal.



With the Incumbent Signal set to the lower edge f_{c2} the EUT continues to operate at a reduced 20MHz bandwidth.

With the Incumbent Signal set to the Center f_{c1} the EUT ceases all operation

With the Incumbent Signal set to the upper edge f_{c3} the EUT continues to operate at a reduced 20MHz bandwidth.

8.3.4. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2026-03-12 to 2026-03-13
Tested By	84445
Test Location	Chamber 5

EUT Channel Center Frequency, f_{c1} (MHz)	6225
EUT Nominal Channel Bandwidth (MHz)	80
99% Occupied Bandwidth of the EUT (MHz)	76.677
EUT 99% OBW Lower Edge, F_L (MHz)	6186.66
EUT 99% OBW Upper Edge, F_H (MHz)	6263.34
99% Occupied Bandwidth of the Incumbent Signal (MHz)	10.055
Test Frequency of Incumbent Signal (f_{c2}) Near EUT F_L (MHz)	6192
Test Frequency of Incumbent Signal at f_{c1} (MHz)	6225
Test Frequency of Incumbent Signal (f_{c3}) Near EUT F_H (MHz)	6258
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	1.90
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-60.1
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} at Text Fixture (dBm)	-45.32
Text Fixture Cable Loss	27.44
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} (dBm)	-72.76
Margin (dBm)	-12.66
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	100%
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} at Text Fixture (dBm)	-35.56
Text Fixture Cable Loss	27.58
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} (dBm)	-63.14
Margin (dBm)	-3.04
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	100%
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} at Text Fixture (dBm)	-45.67
Text Fixture Cable Loss	27.66
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} (dBm)	-73.33
Margin (dBm)	-13.23
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	100%

A minimum detection rate of 90% is required for the EUT to be compliant.

8.3.5. Tx OPERATIONAL STATUS TEST RESULTS

Test Condition 4: 99% BW_{EUT} > 4 x 99% BW_{INC}

Test Date	2026-03-12 to 2026-03-13
Tested By	84445
Test Location	Chamber 5

Incumbent AWGN at f_{c2}:

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-45.32	27.44	-72.76	1.90	-74.66	-62	Ceased
-47.34	27.44	-74.78	1.90	-76.68	-62	Minimal
-51.32	27.44	-78.76	1.90	-80.66	-62	Normal

Incumbent AWGN at f_{c1}:

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-35.56	27.58	-63.14	1.90	-65.04	-62	Ceased
-38.55	27.58	-66.13	1.90	-68.03	-62	Minimal
-47.61	27.58	-75.19	1.90	-77.09	-62	Normal

Incumbent AWGN at f_{c3}:

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-45.67	27.66	-73.33	1.90	-75.23	-62	Ceased
-46.63	27.66	-74.29	1.90	-76.19	-62	Minimal
-50.68	27.66	-78.34	1.90	-80.24	-62	Normal

8.4. U-NII 6 LOW BANDWIDTH RESULTS

8.4.1. TEST CHANNEL

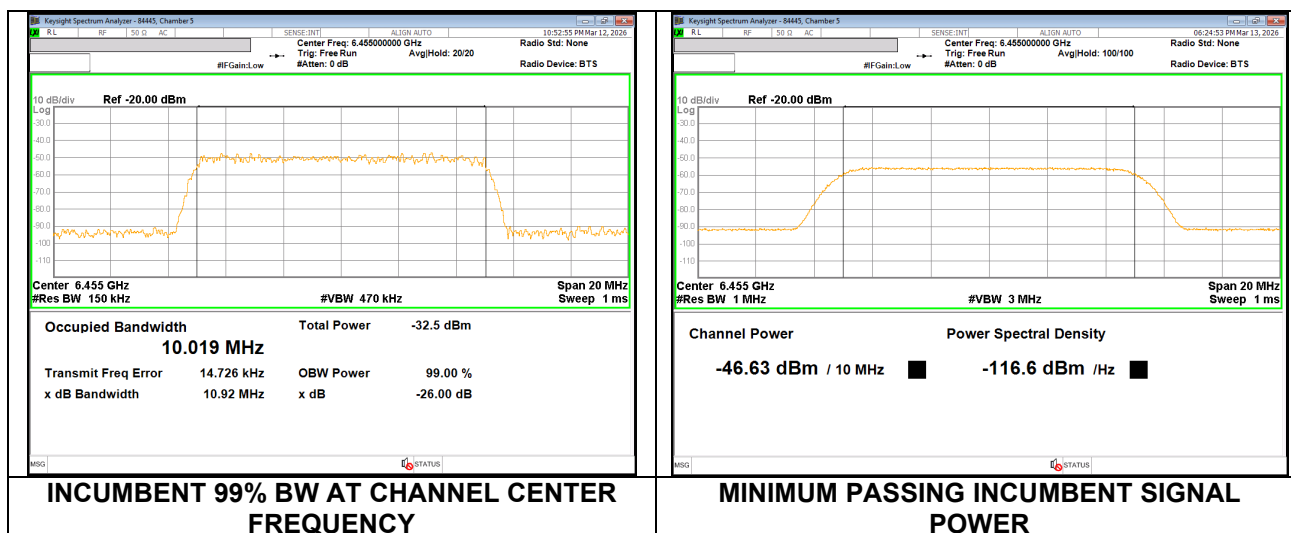
All tests were performed with the EUT set to a channel center frequency of 6455 MHz and a nominal channel bandwidth of 20 MHz.

TEST CONDITION 2 CRITERIA

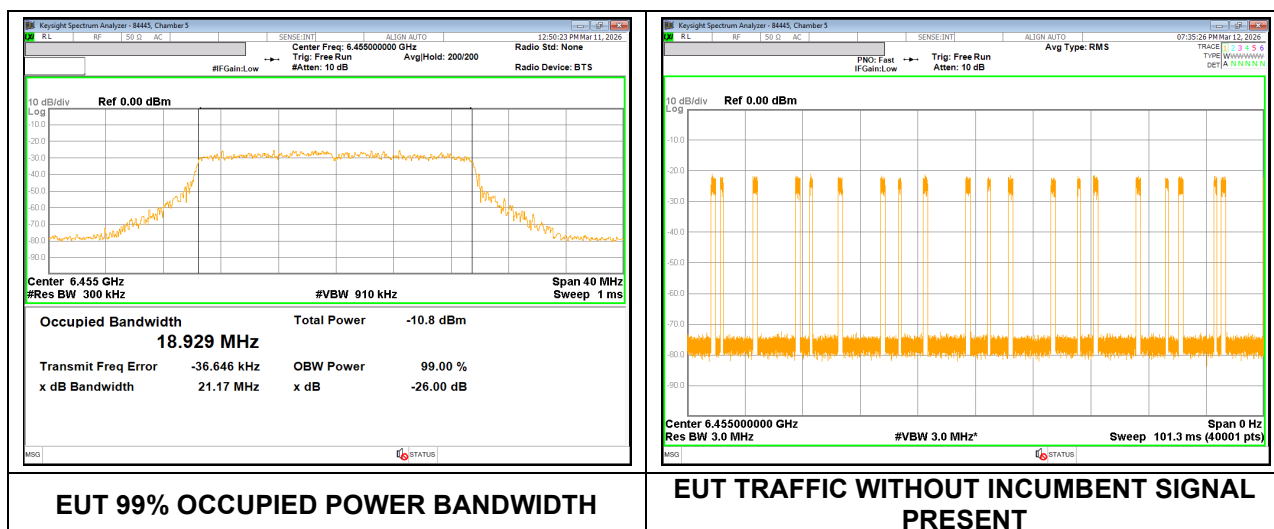
$$99\% BW_{INC} < 99\% BW_{EUT} \leq 2 \times 99\% BW_{INC}$$

8.4.2. INCUMBENT SIGNAL PLOTS

All tests were performed with the Incumbent Signal frequency set to the test channel center frequency and a nominal 99% Occupied Power Bandwidth of 10 MHz.

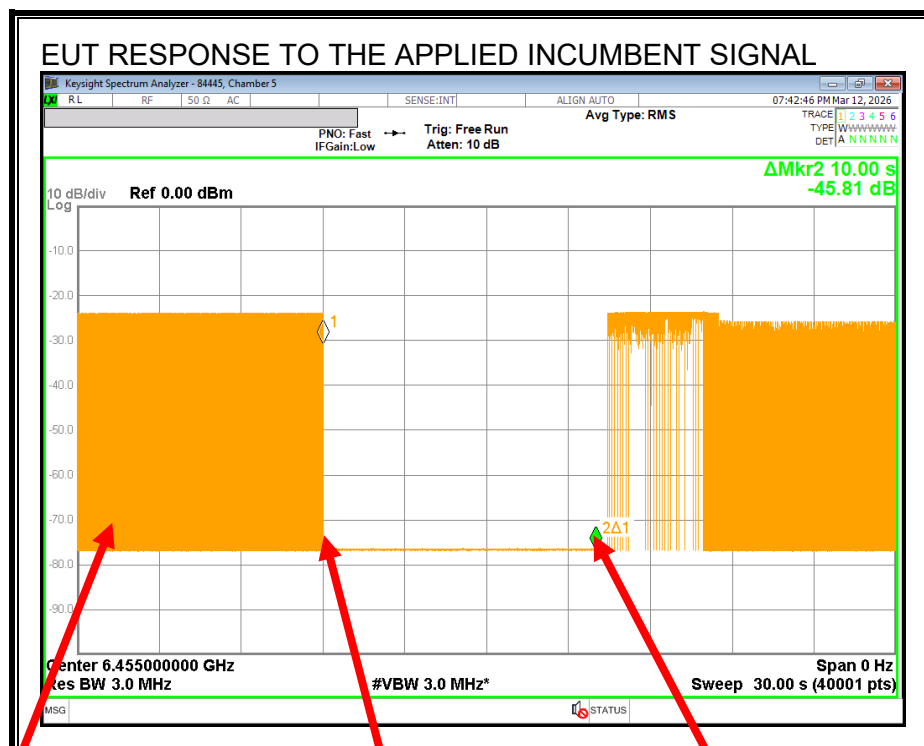


8.4.3. EUT TRANSMISSION PLOTS



EUT RESPONSE TO THE APPLIED INCUMBENT SIGNAL

A link between the EUT and the Companion Device was established on the test channel. Traffic flowing from the EUT to the Companion Device was then initiated. A sweep was started and the incumbent signal was continuously applied at approximately 9 seconds after the start of the sweep for a minimum duration of 10 seconds and removed after the end of the observation period. Markers are placed at the beginning and end of the observation period.



Normal Traffic

Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

8.4.4. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2026-03-11 to 2026-03-12
Tested By	84445
Test Location	Chamber 5

EUT Channel Center Frequency, f_{c1} (MHz)	6455
EUT Nominal Channel Bandwidth (MHz)	20
99% Occupied Bandwidth of the EUT (MHz)	18.929
EUT 99% OBW Lower Edge, F_L (MHz)	6445.54
EUT 99% OBW Upper Edge, F_H (MHz)	6464.46
Test Frequency of Incumbent Signal (MHz)	6455
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	1.10
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-60.9
Lowest Passing Measured Incumbent Signal Amplitude at Text Fixture (dBm)	-46.63
Text Fixture Cable Loss	28.41
Lowest Passing Measured Incumbent Signal Amplitude (dBm)	-75.04
Margin (dBm)	-14.14
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	100%

A minimum detection rate of 90% is required for the EUT to be compliant.

8.4.5. Tx OPERATIONAL STATUS TEST RESULTS

Test Condition 2: $99\% BW_{INC} < 99\% BW_{EUT} \leq 2 \times 99\% BW_{INC}$

Test Date	2026-03-11 to 2026-03-13
Tested By	84445
Test Location	Chamber 5

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-46.63	28.41	-75.04	1.10	-76.14	-62	Ceased
-48.63	28.41	-77.04	1.10	-78.14	-62	Minimal
-57.62	28.41	-86.03	1.10	-87.13	-62	Normal

8.5. U-NII 6 HIGH BANDWIDTH RESULTS

8.5.1. TEST CHANNEL

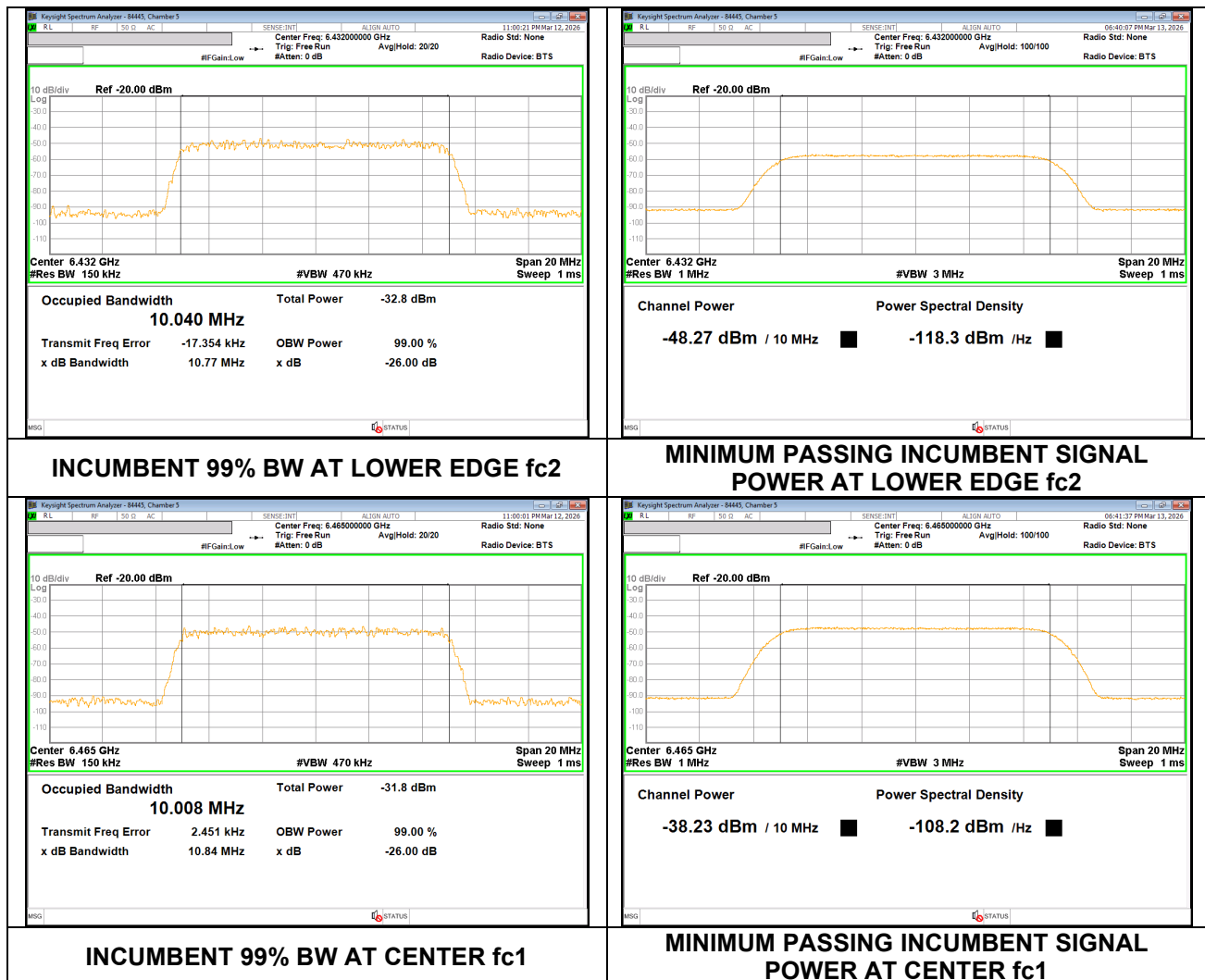
All tests were performed with the EUT set to a channel center frequency of 6465 MHz and a nominal channel bandwidth of 80 MHz.

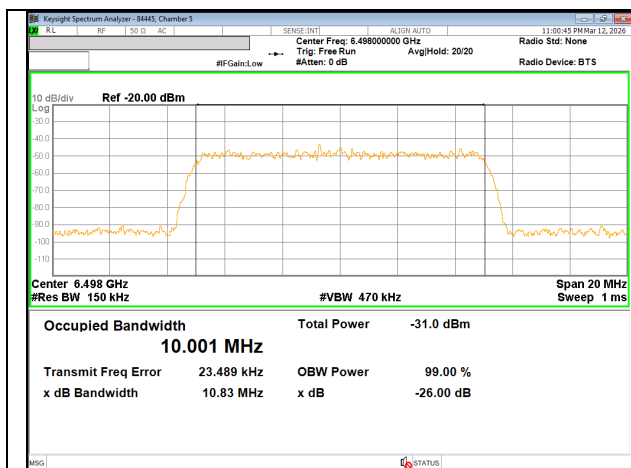
TEST CONDITION 4 CRITERIA

$$99\% BW_{EUT} > 4 \times 99\% BW_{INC}$$

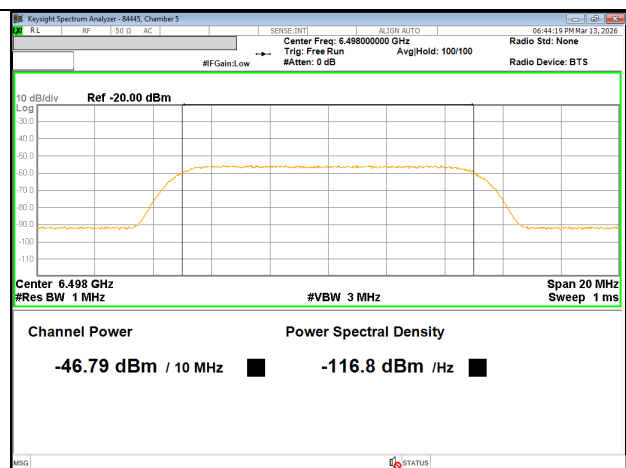
8.5.2. INCUMBENT SIGNAL PLOTS

All tests were performed with the Incumbent Signal frequency set to the test channel center frequency and a nominal 99% Occupied Power Bandwidth of 10 MHz.



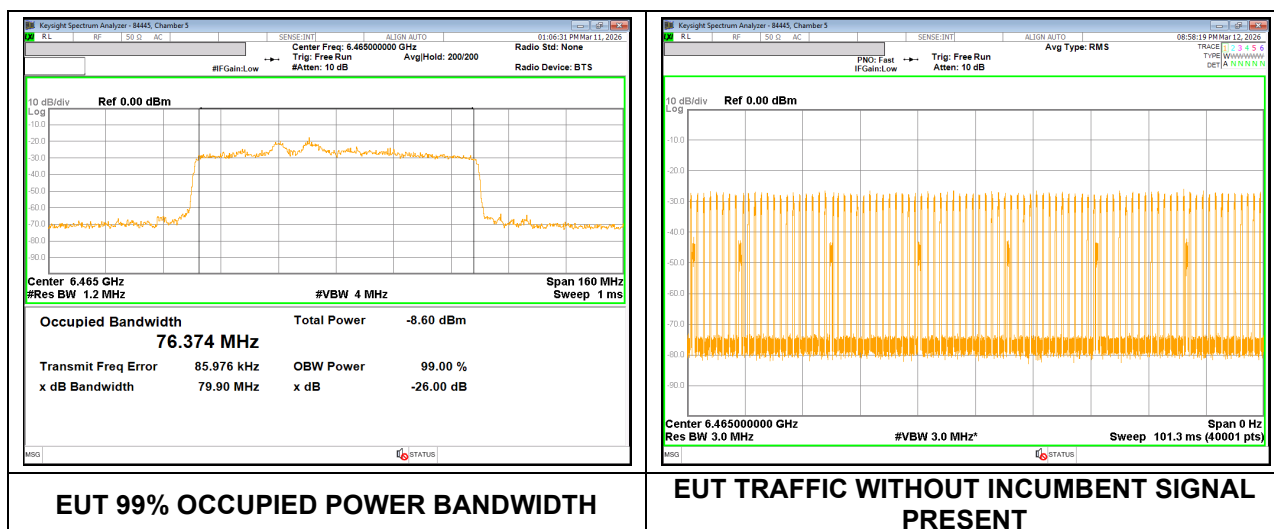


INCUMBENT 99% BW AT UPPER EDGE fc3



**MINIMUM PASSING INCUMBENT SIGNAL
POWER AT UPPER EDGE fc3**

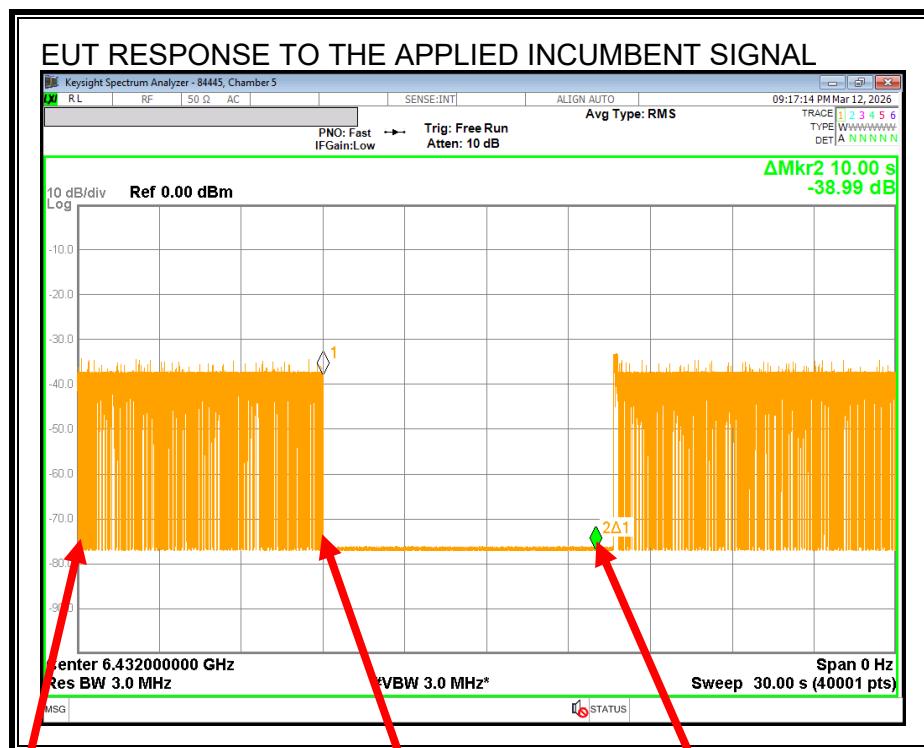
8.5.3. EUT TRANSMISSION PLOTS



EUT RESPONSE TO THE APPLIED INCUMBENT SIGNAL

A link between the EUT and the Companion Device was established on the test channel. Traffic flowing from the EUT to the Companion Device was then initiated. A sweep was started and the incumbent signal was continuously applied at approximately 9 seconds after the start of the sweep for a minimum duration of 10 seconds and removed after the end of the observation period. Markers are placed at the beginning and end of the observation period.

Lower Edge Incumbent Signal f_{c2} :



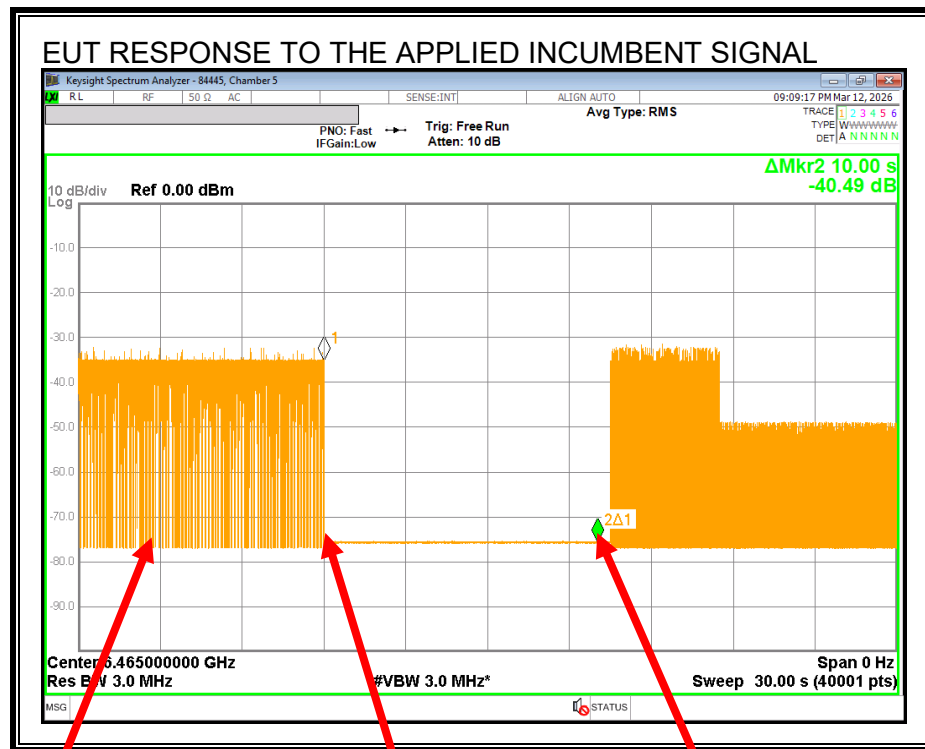
Normal Traffic

Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

Center Frequency Incumbent Signal f_{c1} :



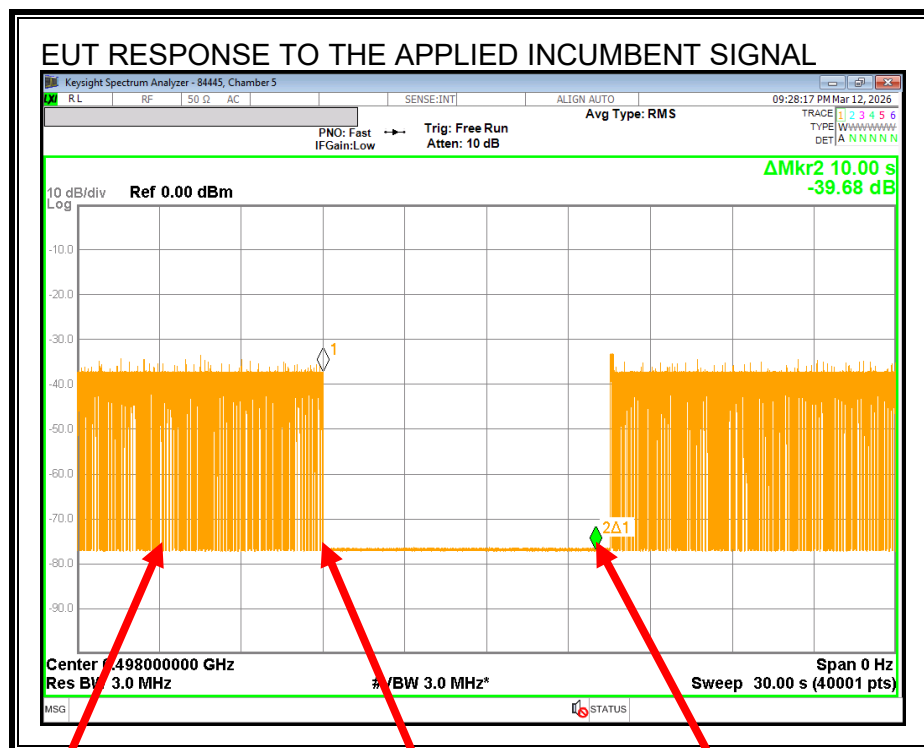
Normal Traffic

Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

Upper Edge Incumbent Signal f_{c3} :



Normal Traffic

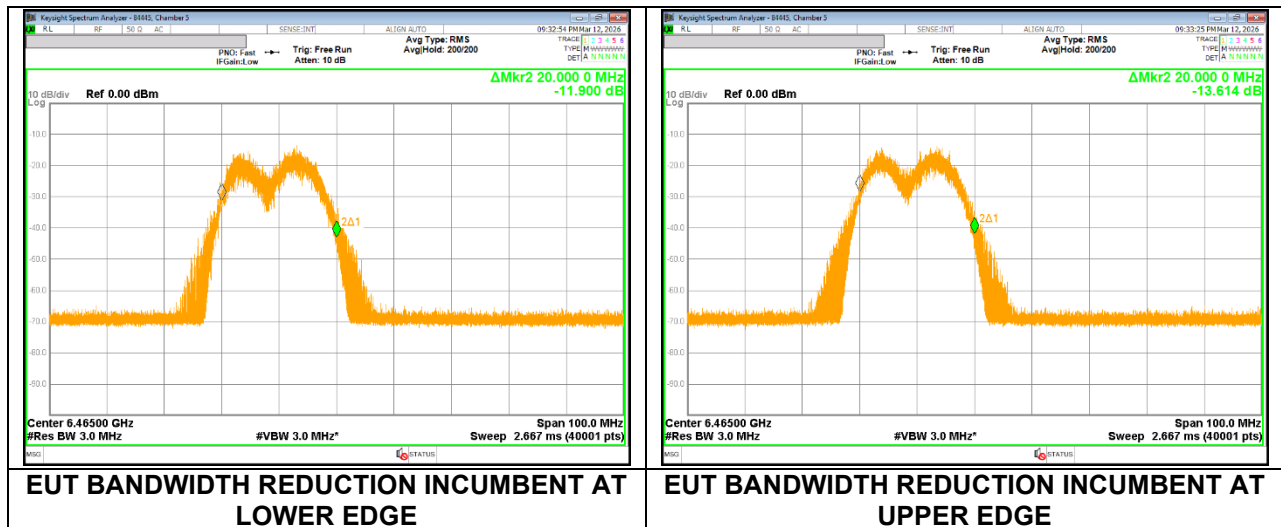
Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

EUT BANDWIDTH REDUCTION

The EUT is allowed to continue operating at a reduced bandwidth in the presence of the Incumbent Signal, so long as the EUT transmissions do not overlap with the channel used by the Incumbent Signal.



With the Incumbent Signal set to the lower edge f_{c2} the EUT continues to operate at a reduced 20MHz bandwidth.

With the Incumbent Signal set to the Center f_{c1} the EUT ceases all operation

With the Incumbent Signal set to the upper edge f_{c3} the EUT continues to operate at a reduced 20MHz bandwidth.

8.5.4. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2026-03-11 to 2026-03-13
Tested By	84445
Test Location	Chamber 5
EUT Channel Center Frequency, f_{c1} (MHz)	6465
EUT Nominal Channel Bandwidth (MHz)	80
99% Occupied Bandwidth of the EUT (MHz)	76.374
EUT 99% OBW Lower Edge, F_L (MHz)	6426.81
EUT 99% OBW Upper Edge, F_H (MHz)	6503.19
99% Occupied Bandwidth of the Incumbent Signal (MHz)	10.008
Test Frequency of Incumbent Signal (f_{c2}) Near EUT F_L (MHz)	6432
Test Frequency of Incumbent Signal at f_{c1} (MHz)	6465
Test Frequency of Incumbent Signal (f_{c3}) Near EUT F_H (MHz)	6498
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	1.10
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-60.9
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} at Text Fixture (dBm)	-48.27
Text Fixture Cable Loss	28.22
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} (dBm)	-76.49
Margin (dBm)	-15.59
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	100%
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} at Text Fixture (dBm)	-38.23
Text Fixture Cable Loss	-28.43
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} (dBm)	-9.80
Margin (dBm)	51.10
Result (PASS / FAIL)	FAIL
Incumbent Detection Rate	90%
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} at Text Fixture (dBm)	-46.79
Text Fixture Cable Loss	28.06
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} (dBm)	-74.85
Margin (dBm)	-13.95
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	100%

A minimum detection rate of 90% is required for the EUT to be compliant.

8.5.5. Tx OPERATIONAL STATUS TEST RESULTS

Test Condition 4: 99% BW_{EUT} > 4 x 99% BW_{INC}

Test Date	2026-03-11 to 2026-03-13
Tested By	84445
Test Location	Chamber 5

Incumbent AWGN at f_{c2}:

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-48.27	28.22	-76.49	1.10	-77.59	-62	Ceased
-50.26	28.22	-78.48	1.10	-79.58	-62	Minimal
-53.25	28.22	-81.47	1.10	-82.57	-62	Normal

Incumbent AWGN at f_{c1}:

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-38.23	28.43	-66.66	1.10	-67.76	-62	Ceased
-40.24	28.43	-68.67	1.10	-69.77	-62	Minimal
-50.26	28.43	-78.69	1.10	-79.79	-62	Normal

Incumbent AWGN at f_{c3}:

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-46.79	28.06	-74.85	1.10	-75.95	-62	Ceased
-48.83	28.06	-76.89	1.10	-77.99	-62	Minimal
-52.79	28.06	-80.85	1.10	-81.95	-62	Normal

8.6. U-NII 7 LOW BANDWIDTH RESULTS

8.6.1. TEST CHANNEL

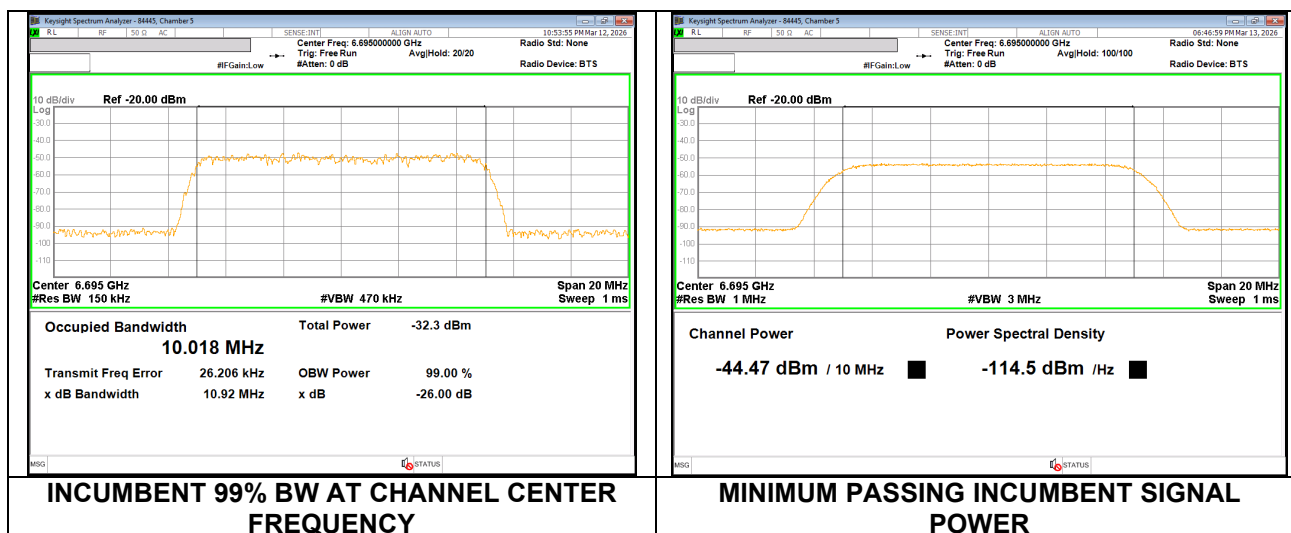
All tests were performed with the EUT set to a channel center frequency of 6695 MHz and a nominal channel bandwidth of 20 MHz.

TEST CONDITION 2 CRITERIA

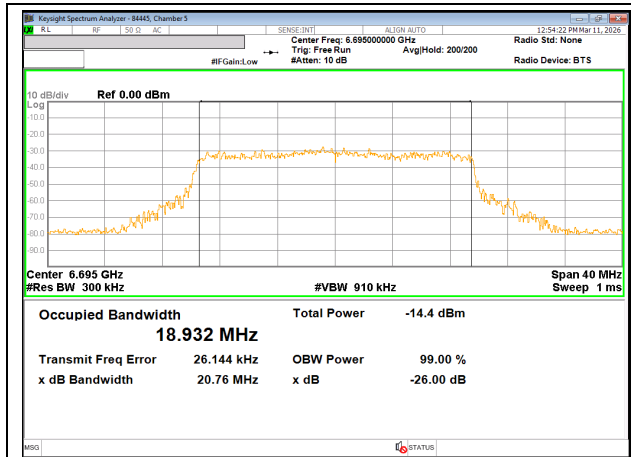
$$99\% BW_{INC} < 99\% BW_{EUT} \leq 2 \times 99\% BW_{INC}$$

8.6.2. INCUMBENT SIGNAL PLOTS

All tests were performed with the Incumbent Signal frequency set to the test channel center frequency and a nominal 99% Occupied Power Bandwidth of 10 MHz.



8.6.3. EUT TRANSMISSION PLOTS



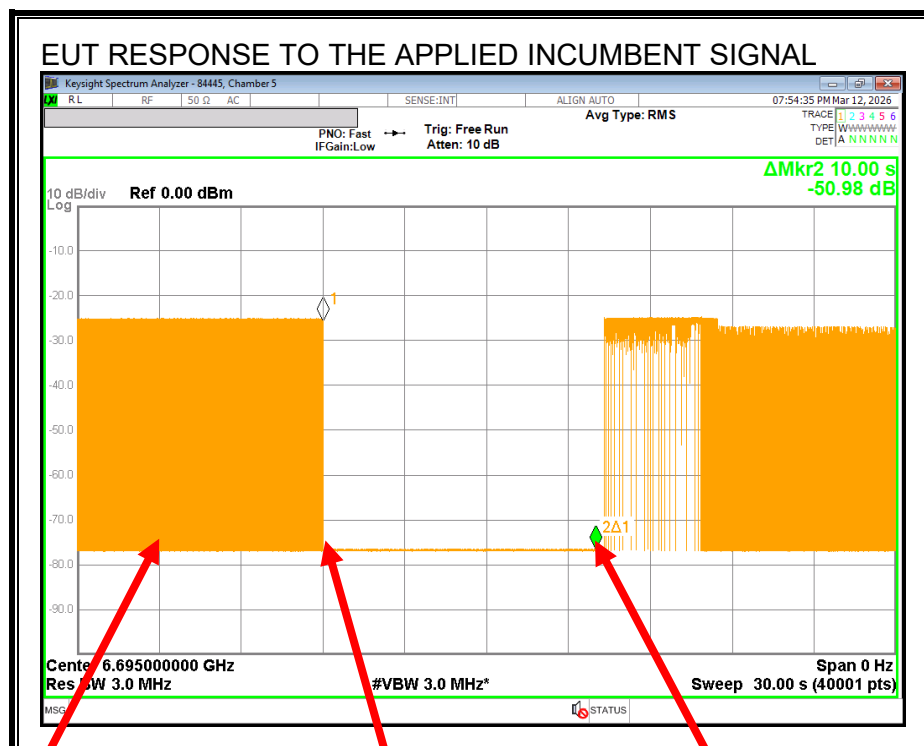
EUT 99% OCCUPIED POWER BANDWIDTH



**EUT TRAFFIC WITHOUT INCUMBENT SIGNAL
PRESENT**

EUT RESPONSE TO THE APPLIED INCUMBENT SIGNAL

A link between the EUT and the Companion Device was established on the test channel. Traffic flowing from the EUT to the Companion Device was then initiated. A sweep was started and the incumbent signal was continuously applied at approximately 9 seconds after the start of the sweep for a minimum duration of 10 seconds and removed after the end of the observation period. Markers are placed at the beginning and end of the observation period.



Normal Traffic

Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

8.6.4. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2026-03-11 to 2026-03-13
Tested By	84445
Test Location	Chamber 5

EUT Channel Center Frequency, f_{c1} (MHz)	6695
EUT Nominal Channel Bandwidth (MHz)	20
99% Occupied Bandwidth of the EUT (MHz)	18.932
EUT 99% OBW Lower Edge, F_L (MHz)	6685.53
EUT 99% OBW Upper Edge, F_H (MHz)	6704.47
Test Frequency of Incumbent Signal (MHz)	6695
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	0.80
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-61.2
Lowest Passing Measured Incumbent Signal Amplitude at Text Fixture (dBm)	-44.47
Text Fixture Cable Loss	28.34
Lowest Passing Measured Incumbent Signal Amplitude (dBm)	-72.81
Margin (dBm)	-11.61
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	90%

A minimum detection rate of 90% is required for the EUT to be compliant.

8.6.5. Tx OPERATIONAL STATUS TEST RESULTS

Test Condition 2: $99\% BW_{INC} < 99\% BW_{EUT} \leq 2 \times 99\% BW_{INC}$

Test Date	2026-03-11 to 2026-03-13
Tested By	84445
Test Location	Chamber 5

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-44.47	28.34	-72.81	0.80	-73.61	-62	Ceased
-45.51	28.34	-73.85	0.80	-74.65	-62	Minimal
-56.51	28.34	-84.85	0.80	-85.65	-62	Normal

8.7. U-NII 7 HIGH BANDWIDTH RESULTS

8.7.1. TEST CHANNEL

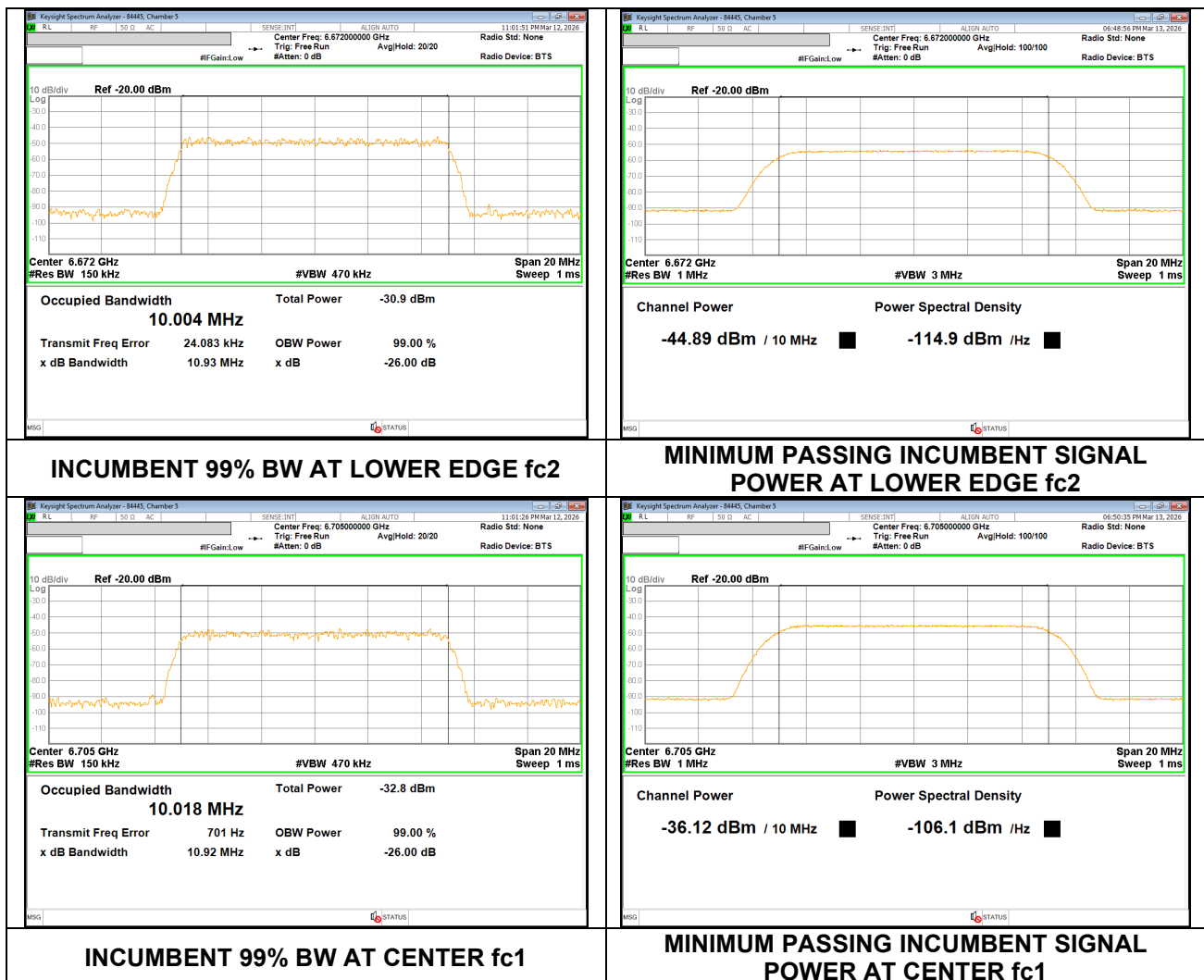
All tests were performed with the EUT set to a channel center frequency of 6705 MHz and a nominal channel bandwidth of 80 MHz.

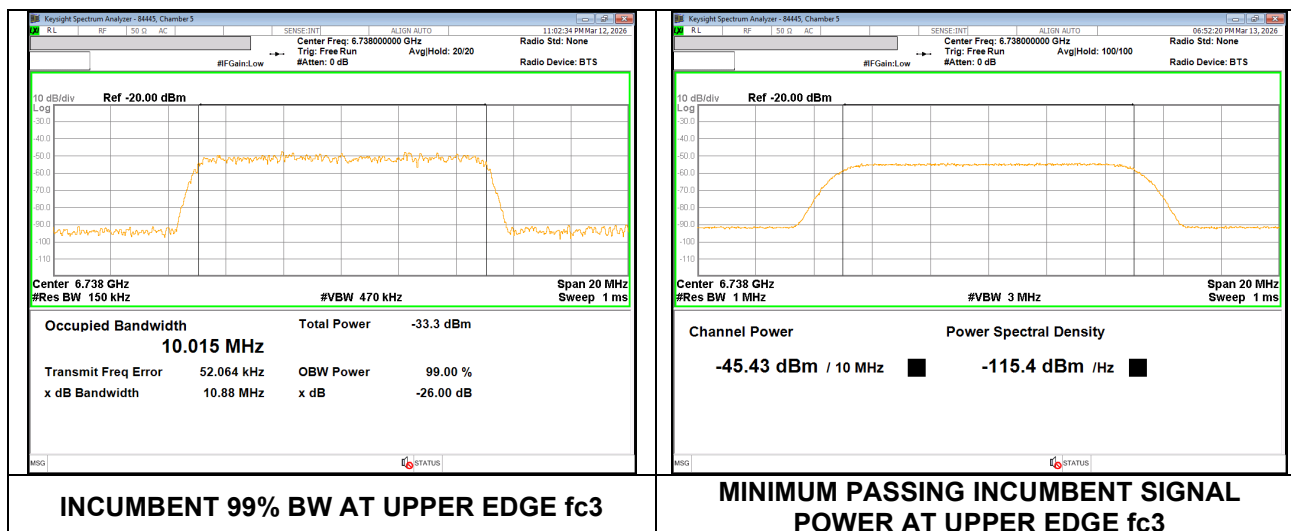
TEST CONDITION 4 CRITERIA

$$99\% BW_{EUT} > 4 \times 99\% BW_{INC}$$

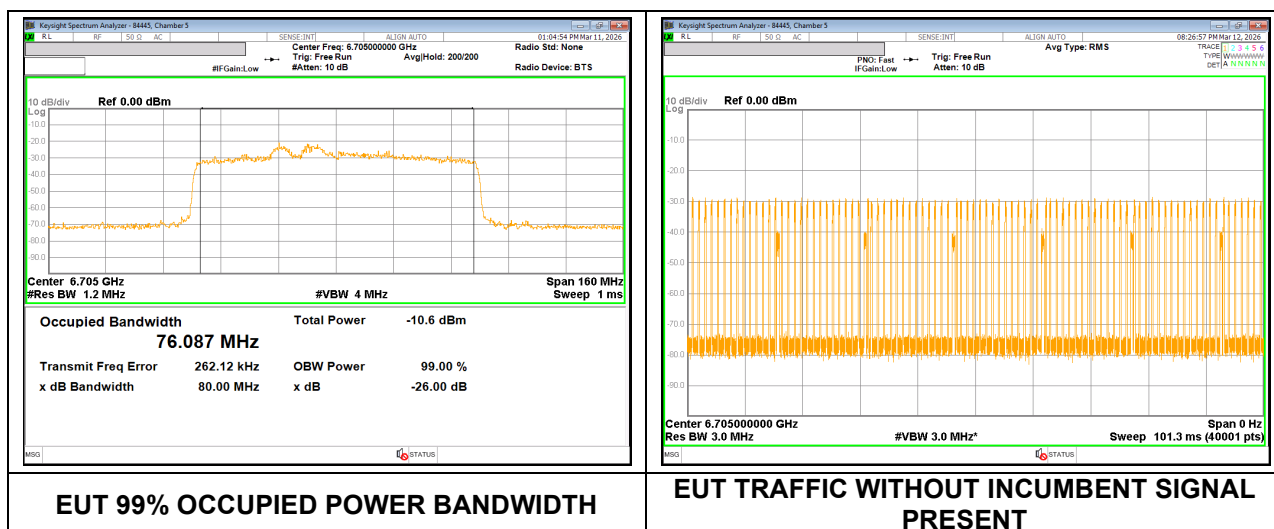
8.7.2. INCUMBENT SIGNAL PLOTS

All tests were performed with the Incumbent Signal frequency set to the test channel center frequency and a nominal 99% Occupied Power Bandwidth of 10 MHz.





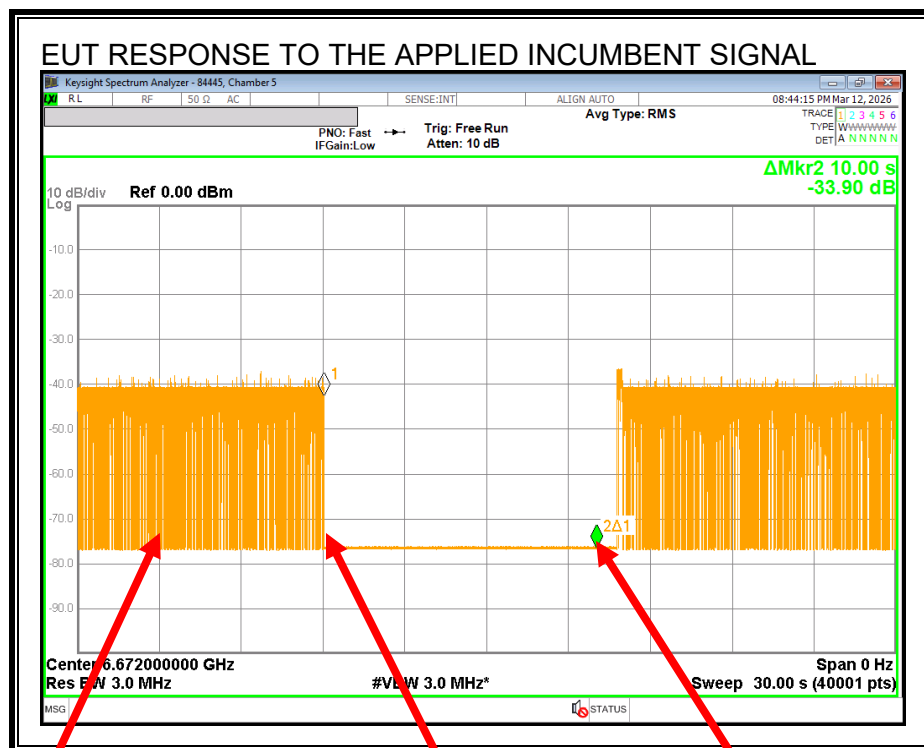
8.7.3. EUT TRANSMISSION PLOTS



EUT RESPONSE TO THE APPLIED INCUMBENT SIGNAL

A link between the EUT and the Companion Device was established on the test channel. Traffic flowing from the EUT to the Companion Device was then initiated. A sweep was started and the incumbent signal was continuously applied at approximately 9 seconds after the start of the sweep for a minimum duration of 10 seconds and removed after the end of the observation period. Markers are placed at the beginning and end of the observation period.

Lower Edge Incumbent Signal f_{c2} :



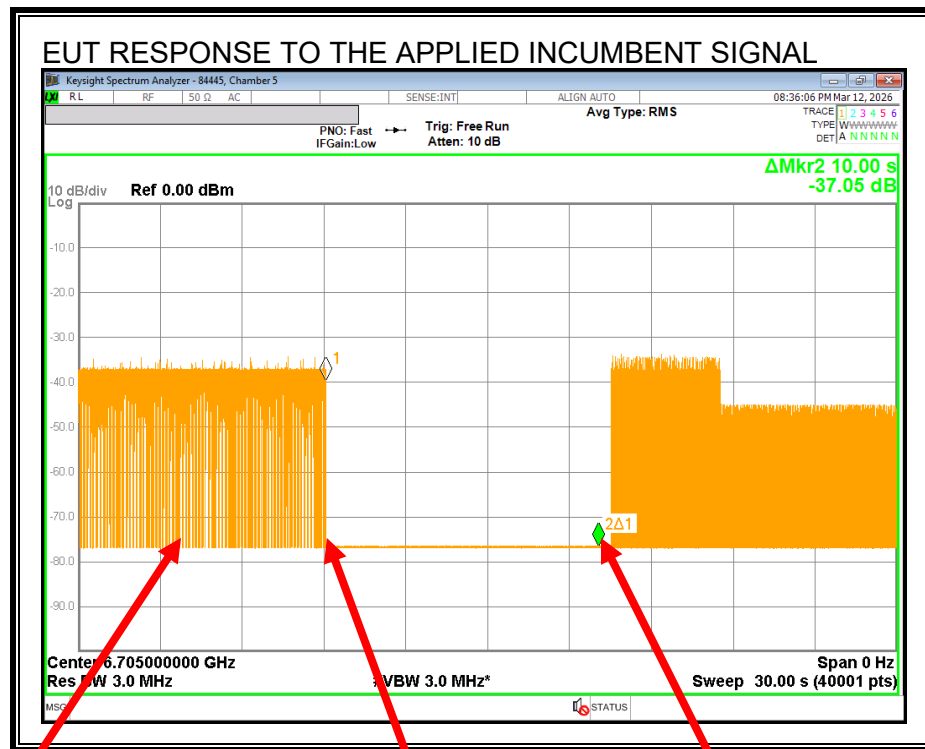
Normal Traffic

Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

Center Frequency Incumbent Signal f_{c1} :



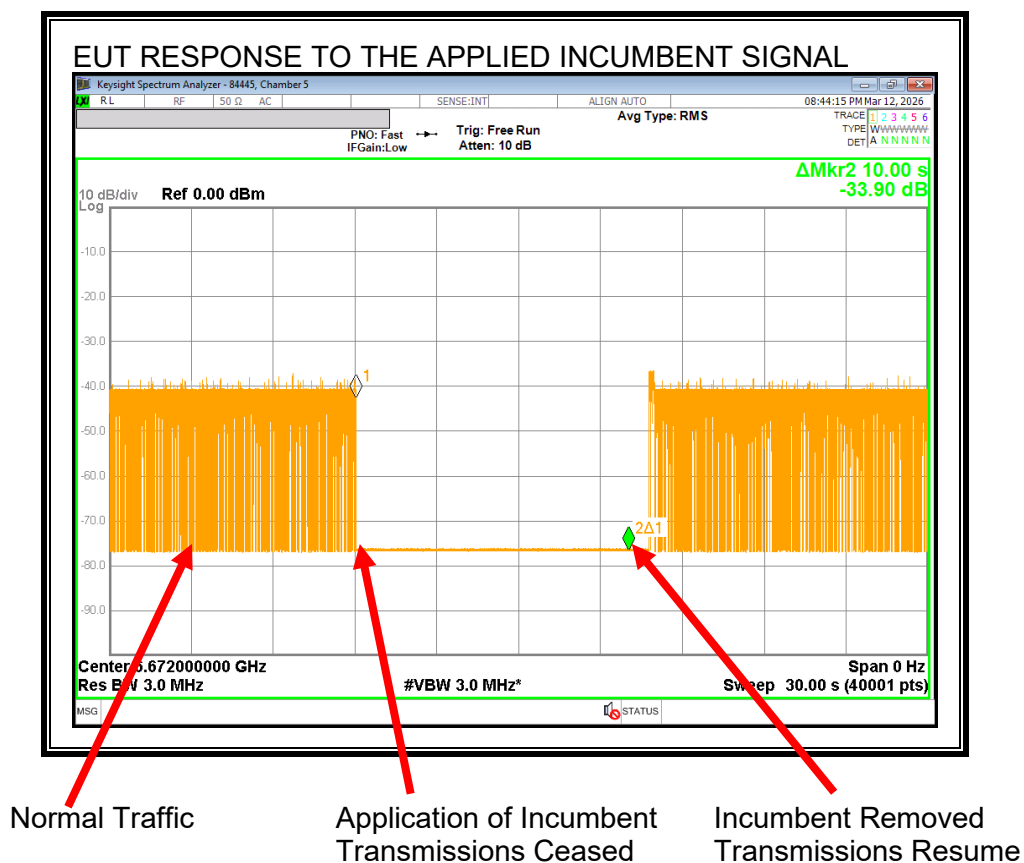
Normal Traffic

Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

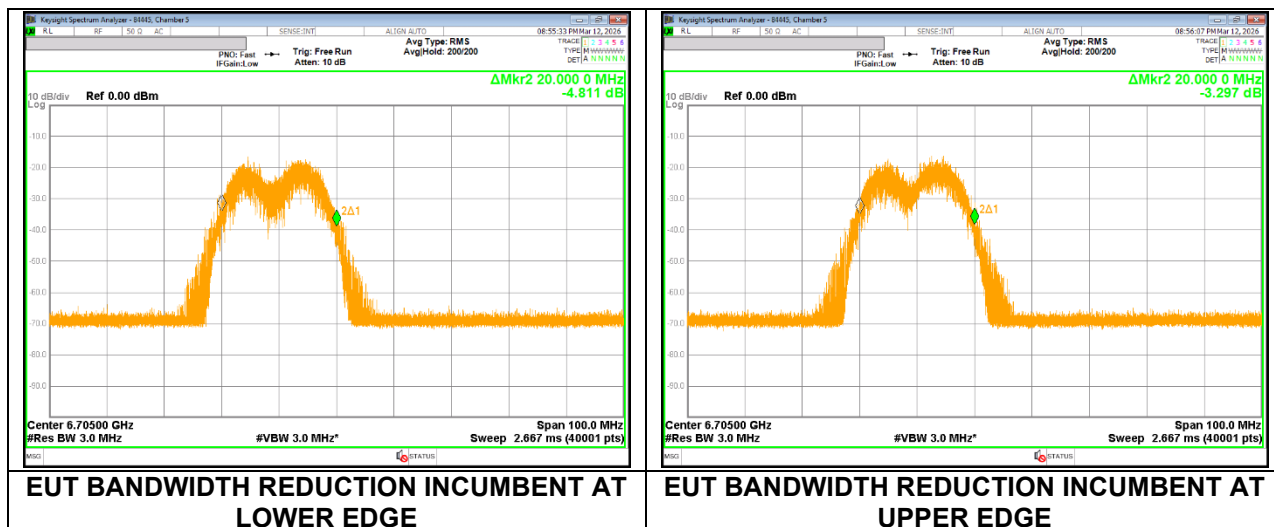
Upper Edge Incumbent Signal f_{c3} :



Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

EUT BANDWIDTH REDUCTION

The EUT is allowed to continue operating at a reduced bandwidth in the presence of the Incumbent Signal, so long as the EUT transmissions do not overlap with the channel used by the Incumbent Signal.



With the Incumbent Signal set to the lower edge f_{c2} the EUT continues to operate at a reduced 20MHz bandwidth.

With the Incumbent Signal set to the Center f_{c1} the EUT ceases all operation

With the Incumbent Signal set to the upper edge f_{c3} the EUT continues to operate at a reduced 20MHz bandwidth.

8.7.4. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2026-03-11 to 2026-03-13
Tested By	84445
Test Location	Chamber 5
EUT Channel Center Frequency, f_{c1} (MHz)	6705
EUT Nominal Channel Bandwidth (MHz)	80
99% Occupied Bandwidth of the EUT (MHz)	76.087
EUT 99% OBW Lower Edge, F_L (MHz)	6666.96
EUT 99% OBW Upper Edge, F_H (MHz)	6743.04
99% Occupied Bandwidth of the Incumbent Signal (MHz)	10.018
Test Frequency of Incumbent Signal (f_{c2}) Near EUT F_L (MHz)	6672
Test Frequency of Incumbent Signal at f_{c1} (MHz)	6705
Test Frequency of Incumbent Signal (f_{c3}) Near EUT F_H (MHz)	6738
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	0.80
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-61.2
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} at Text Fixture (dBm)	-44.89
Text Fixture Cable Loss	28.75
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} (dBm)	-73.64
Margin (dBm)	-12.44
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	100%
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} at Text Fixture (dBm)	-36.12
Text Fixture Cable Loss	28.21
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} (dBm)	-64.33
Margin (dBm)	-3.13
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	100%
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} at Text Fixture (dBm)	-45.43
Text Fixture Cable Loss	28.44
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} (dBm)	-73.87
Margin (dBm)	-12.67
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	100%

A minimum detection rate of 90% is required for the EUT to be compliant.

8.7.5. Tx OPERATIONAL STATUS TEST RESULTS

Test Condition 4: 99% BW_{EUT} > 4 x 99% BW_{INC}

Test Date	2026-03-11 to 2026-03-13
Tested By	84445
Test Location	Chamber 5

Incumbent AWGN at f_{c2}:

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-44.89	28.75	-73.64	0.80	-74.44	-62	Ceased
-45.97	28.75	-74.72	0.80	-75.52	-62	Minimal
-49.92	28.75	-78.67	0.80	-79.47	-62	Normal

Incumbent AWGN at f_{c1}:

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-36.12	28.21	-64.33	0.80	-65.13	-62	Ceased
-39.05	28.21	-67.26	0.80	-68.06	-62	Minimal
-48.08	28.21	-76.29	0.80	-77.09	-62	Normal

Incumbent AWGN at f_{c3}:

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-45.43	28.44	-73.87	0.80	-74.67	-62	Ceased
-47.44	28.44	-75.88	0.80	-76.68	-62	Minimal
-50.44	28.44	-78.88	0.80	-79.68	-62	Normal

8.8. U-NII 8 LOW BANDWIDTH RESULTS

8.8.1. TEST CHANNEL

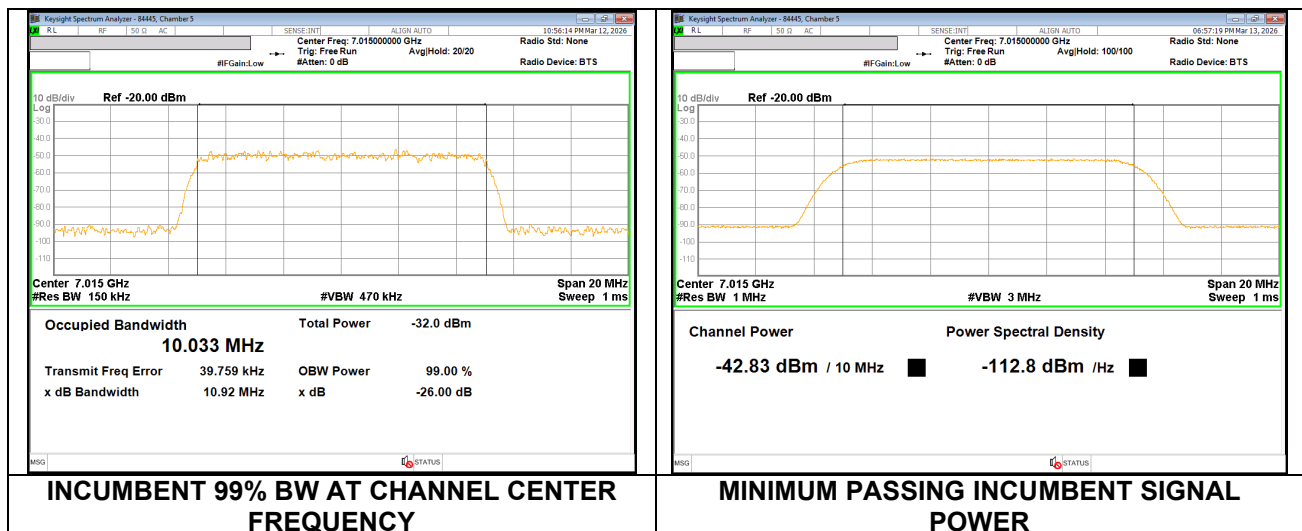
All tests were performed with the EUT set to a channel center frequency of 7015 MHz and a nominal channel bandwidth of 20 MHz.

TEST CONDITION 2 CRITERIA

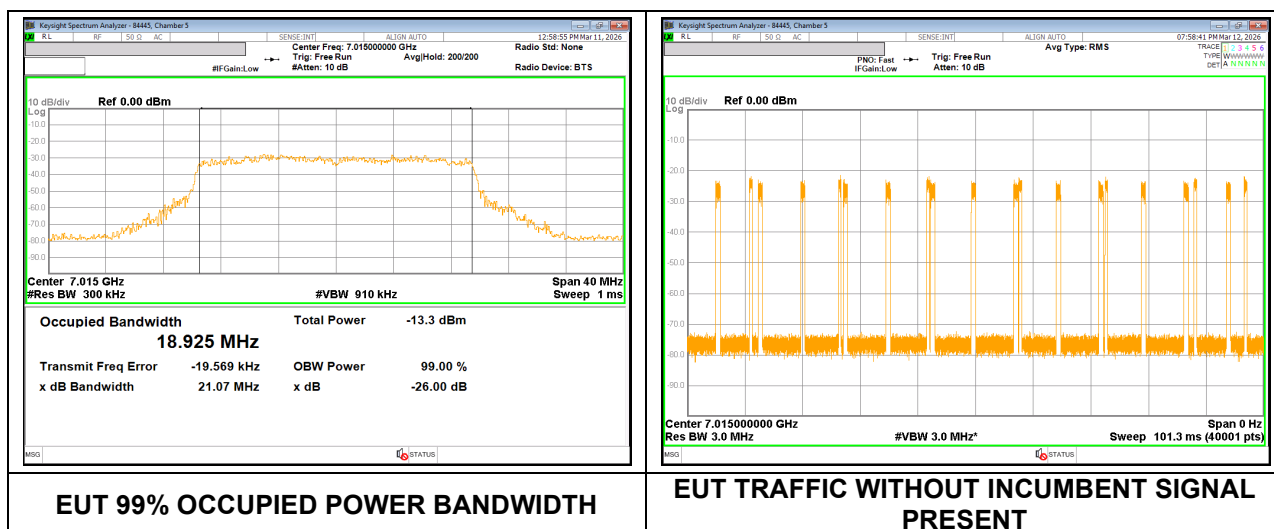
$$99\% BW_{INC} < 99\% BW_{EUT} \leq 2 \times 99\% BW_{INC}$$

8.8.2. INCUMBENT SIGNAL PLOTS

All tests were performed with the Incumbent Signal frequency set to the test channel center frequency and a nominal 99% Occupied Power Bandwidth of 10 MHz.

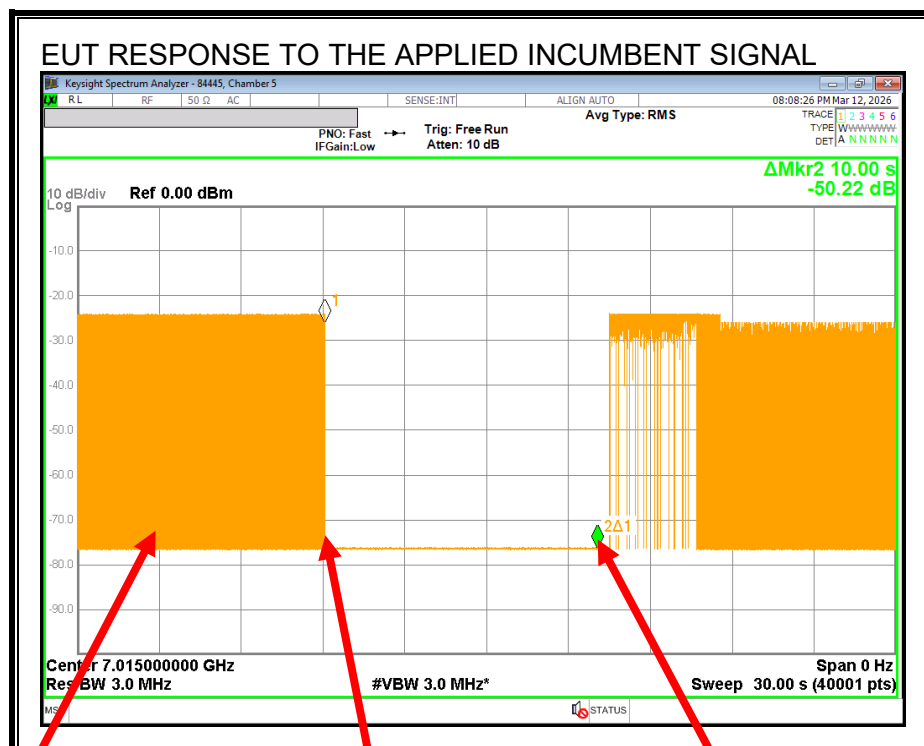


8.8.3. EUT TRANSMISSION PLOTS



EUT RESPONSE TO THE APPLIED INCUMBENT SIGNAL

A link between the EUT and the Companion Device was established on the test channel. Traffic flowing from the EUT to the Companion Device was then initiated. A sweep was started and the incumbent signal was continuously applied at approximately 9 seconds after the start of the sweep for a minimum duration of 10 seconds and removed after the end of the observation period. Markers are placed at the beginning and end of the observation period.



Normal Traffic

Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

8.8.4. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2026-03-11 to 2026-03-13
Tested By	84445
Test Location	Chamber 5

EUT Channel Center Frequency, f_{c1} (MHz)	7015
EUT Nominal Channel Bandwidth (MHz)	20
99% Occupied Bandwidth of the EUT (MHz)	18.925
EUT 99% OBW Lower Edge, F_L (MHz)	7005.54
EUT 99% OBW Upper Edge, F_H (MHz)	7024.46
Test Frequency of Incumbent Signal (MHz)	7015
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	0.90
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-61.1
Lowest Passing Measured Incumbent Signal Amplitude at Text Fixture (dBm)	-42.83
Text Fixture Cable Loss	28.53
Lowest Passing Measured Incumbent Signal Amplitude (dBm)	-71.36
Margin (dBm)	-10.26
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	100%

A minimum detection rate of 90% is required for the EUT to be compliant.

8.8.5. Tx OPERATIONAL STATUS TEST RESULTS

Test Condition 2: $99\% BW_{INC} < 99\% BW_{EUT} \leq 2 \times 99\% BW_{INC}$

Test Date	2026-03-11 to 2026-03-13
Tested By	84445
Test Location	Chamber 5

Incumbent AWGN at f_{c1} :

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-42.83	28.53	-71.36	0.90	-72.26	-62	Ceased
-44.87	28.53	-73.40	0.90	-74.30	-62	Minimal
-57.82	28.53	-86.35	0.90	-87.25	-62	Normal

8.9. U-NII 8 HIGH BANDWIDTH RESULTS

8.9.1. TEST CHANNEL

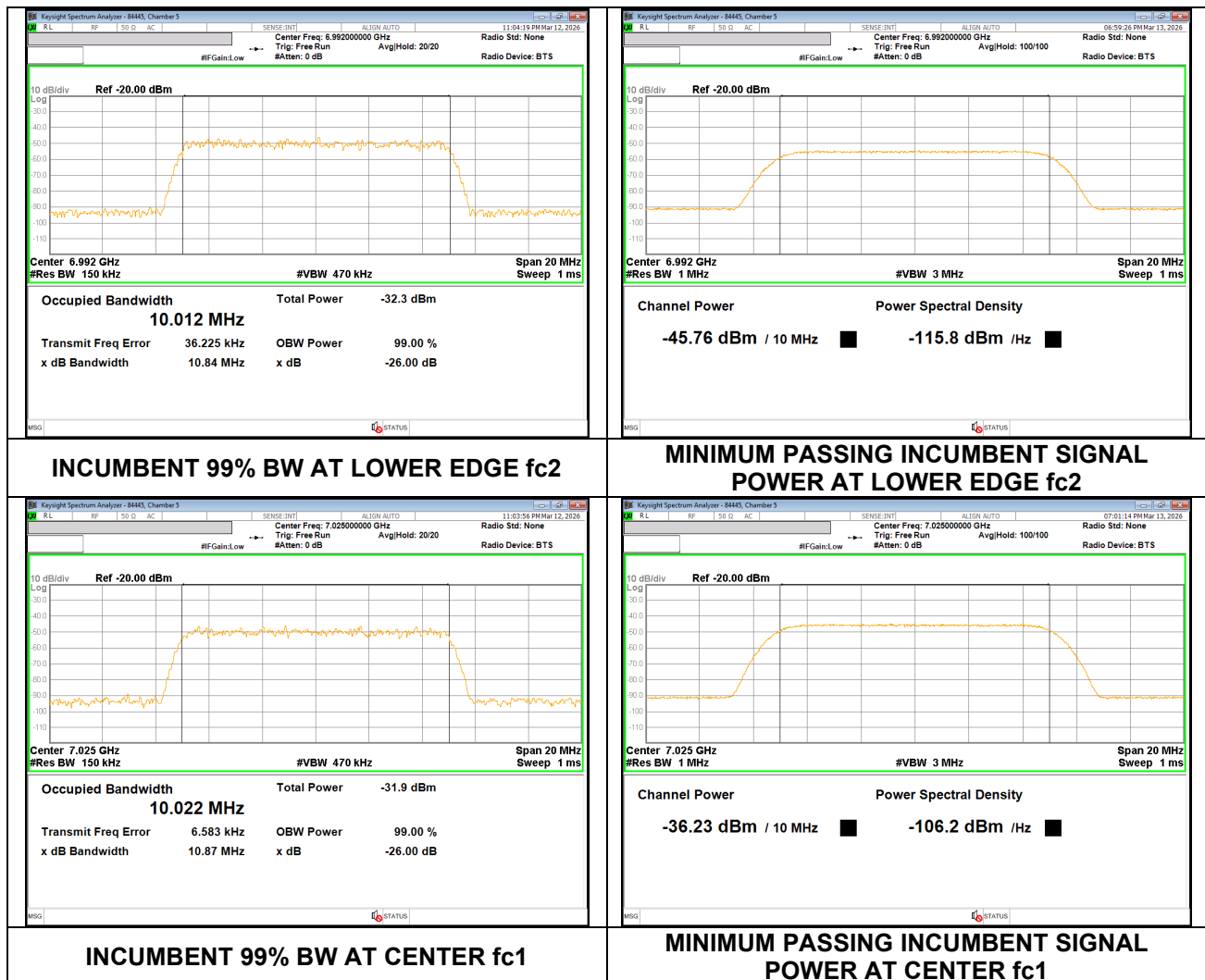
All tests were performed with the EUT set to a channel center frequency of 7025 MHz and a nominal channel bandwidth of 80 MHz.

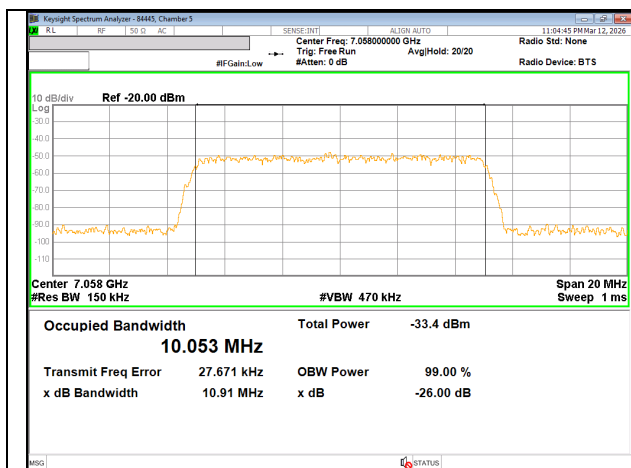
TEST CONDITION 4 CRITERIA

$$99\% BW_{EUT} > 4 \times 99\% BW_{INC}$$

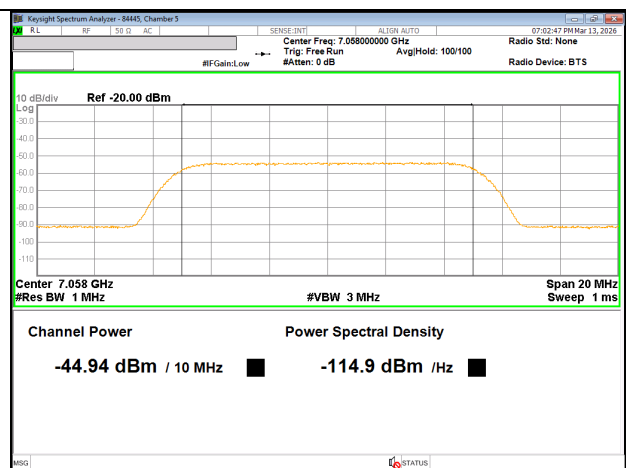
8.9.2. INCUMBENT SIGNAL PLOTS

All tests were performed with the Incumbent Signal frequency set to the test channel center frequency and a nominal 99% Occupied Power Bandwidth of 10 MHz.



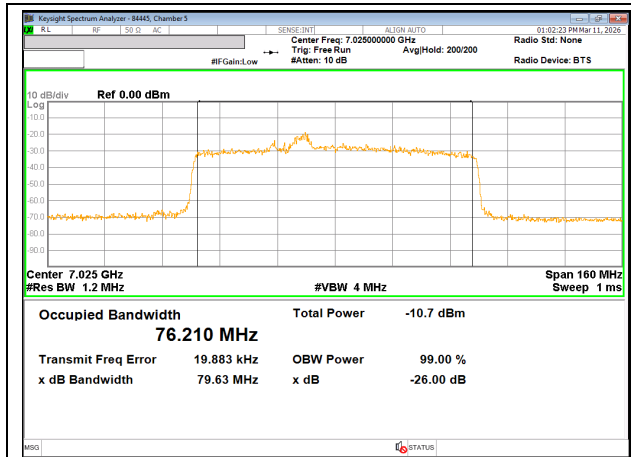


INCUMBENT 99% BW AT UPPER EDGE fc3

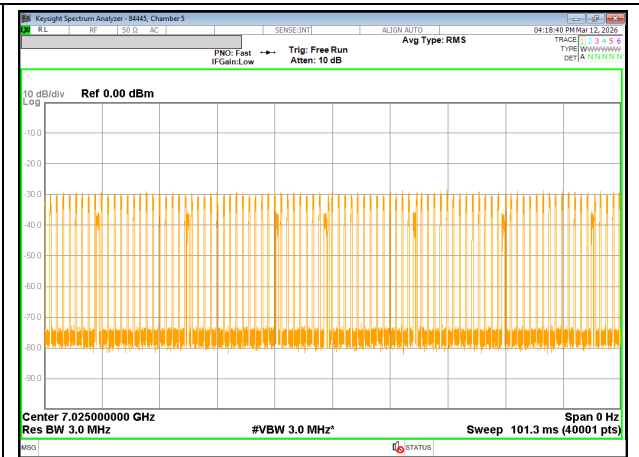


MINIMUM PASSING INCUMBENT SIGNAL
POWER AT UPPER EDGE fc3

8.9.3. EUT TRANSMISSION PLOTS



EUT 99% OCCUPIED POWER BANDWIDTH

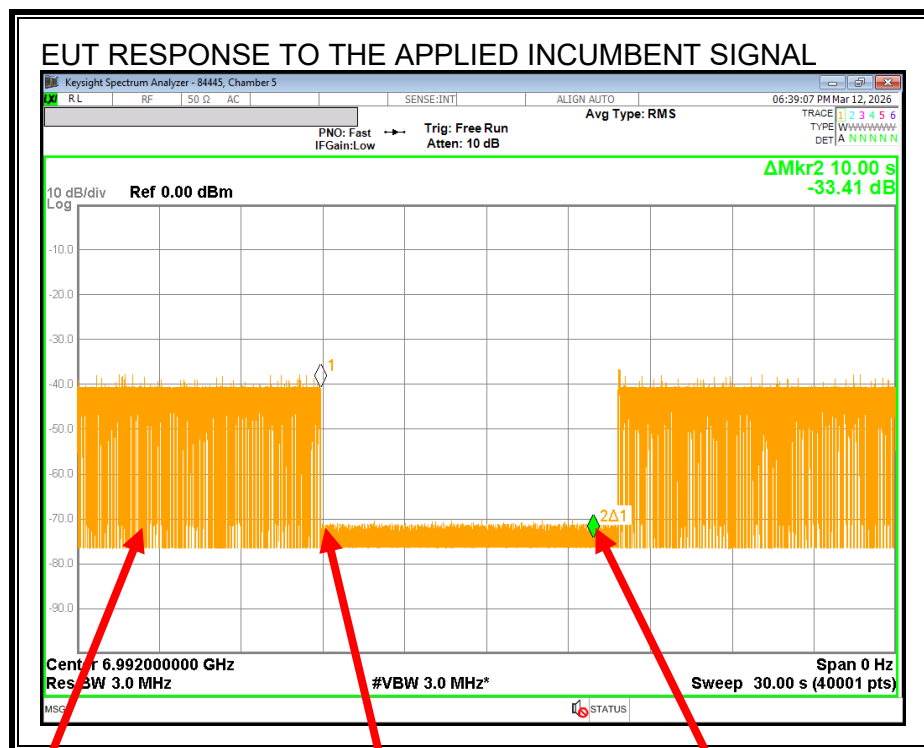


**EUT TRAFFIC WITHOUT INCUMBENT SIGNAL
PRESENT**

EUT RESPONSE TO THE APPLIED INCUMBENT SIGNAL

A link between the EUT and the Companion Device was established on the test channel. Traffic flowing from the EUT to the Companion Device was then initiated. A sweep was started and the incumbent signal was continuously applied at approximately 9 seconds after the start of the sweep for a minimum duration of 10 seconds and removed after the end of the observation period. Markers are placed at the beginning and end of the observation period.

Lower Edge Incumbent Signal f_{c2} :



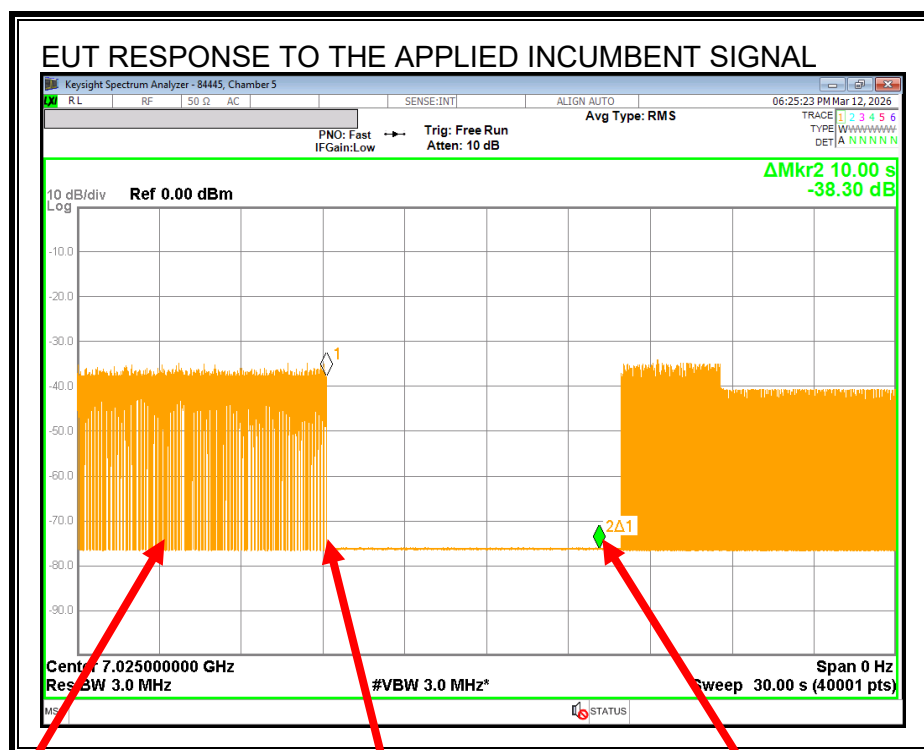
Normal Traffic

Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

Center Frequency Incumbent Signal f_{c1} :



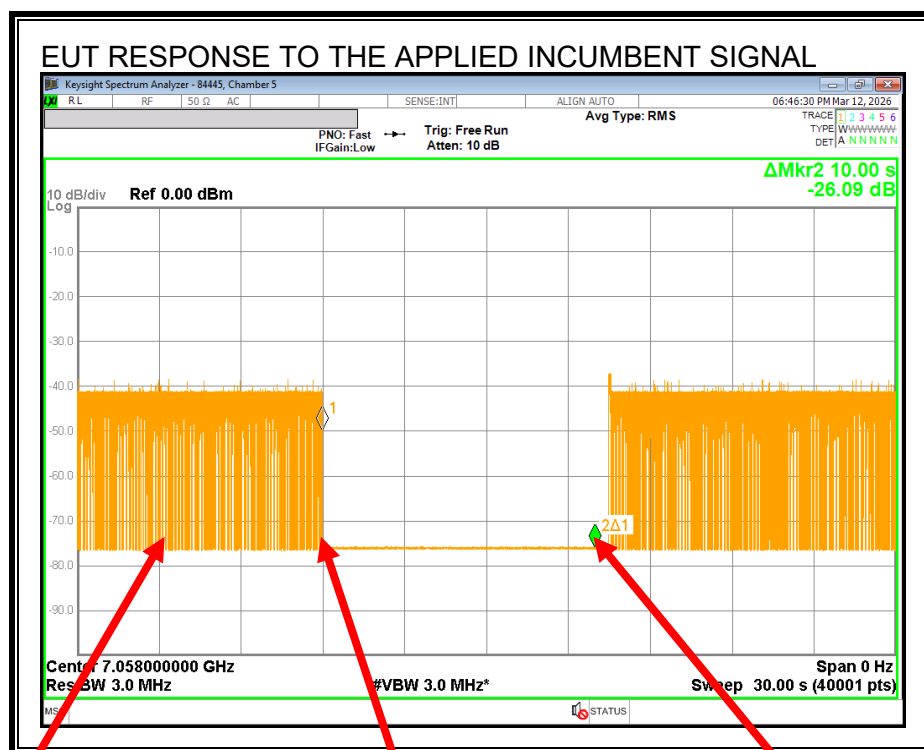
Normal Traffic

Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

Upper Edge Incumbent Signal f_{c3} :



Normal Traffic

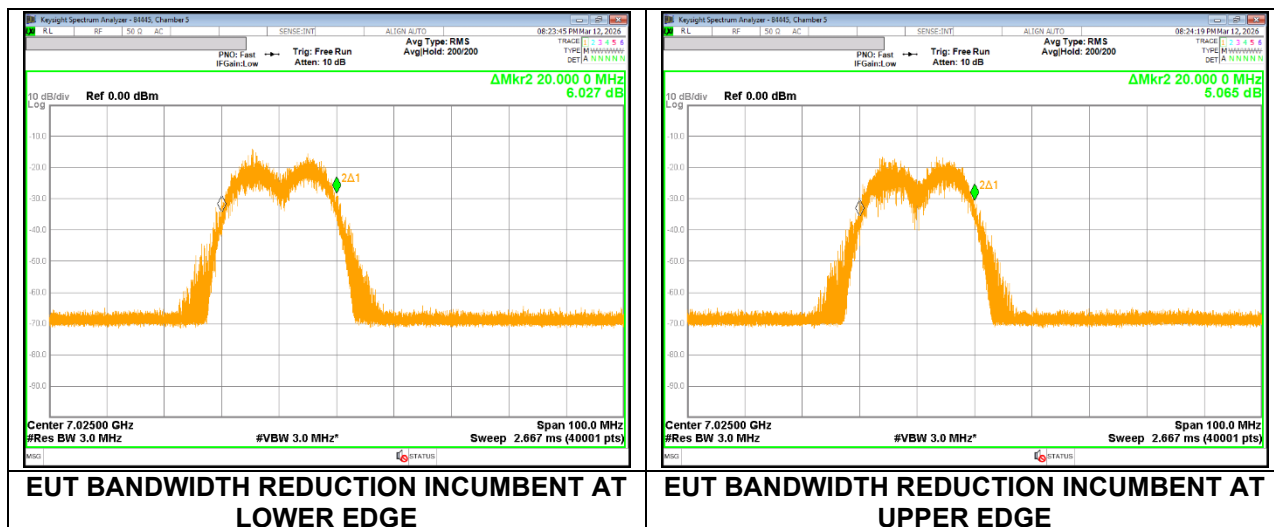
Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

EUT BANDWIDTH REDUCTION

The EUT is allowed to continue operating at a reduced bandwidth in the presence of the Incumbent Signal, so long as the EUT transmissions do not overlap with the channel used by the Incumbent Signal.



With the Incumbent Signal set to the lower edge f_{c2} the EUT continues to operate at a reduced 20MHz bandwidth.

With the Incumbent Signal set to the Center f_{c1} the EUT ceases all operation

With the Incumbent Signal set to the upper edge f_{c3} the EUT continues to operate at a reduced 20MHz bandwidth.

8.9.4. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2026-03-11 to 2026-03-13
Tested By	84445
Test Location	Chamber 5

EUT Channel Center Frequency, f_{c1} (MHz)	7025
EUT Nominal Channel Bandwidth (MHz)	80
99% Occupied Bandwidth of the EUT (MHz)	76.21
EUT 99% OBW Lower Edge, F_L (MHz)	6986.90
EUT 99% OBW Upper Edge, F_H (MHz)	7063.11
99% Occupied Bandwidth of the Incumbent Signal (MHz)	10.022
Test Frequency of Incumbent Signal (f_{c2}) Near EUT F_L (MHz)	6992
Test Frequency of Incumbent Signal at f_{c1} (MHz)	7025
Test Frequency of Incumbent Signal (f_{c3}) Near EUT F_H (MHz)	7058
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	0.90
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-61.1
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} at Text Fixture (dBm)	-45.76
Text Fixture Cable Loss	29.04
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} (dBm)	-74.80
Margin (dBm)	-13.70
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	100%
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} at Text Fixture (dBm)	-36.23
Text Fixture Cable Loss	28.31
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} (dBm)	-64.54
Margin (dBm)	-3.44
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	90%
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} at Text Fixture (dBm)	-44.94
Text Fixture Cable Loss	28.76
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} (dBm)	-73.70
Margin (dBm)	-12.60
Result (PASS / FAIL)	PASS
Incumbent Detection Rate	100%

A minimum detection rate of 90% is required for the EUT to be compliant.

8.9.5. Tx OPERATIONAL STATUS TEST RESULTS

Test Condition 4: 99% BW_{EUT} > 4 x 99% BW_{INC}

Test Date	2026-03-11 to 2026-03-13
Tested By	84445
Test Location	Chamber 5

Incumbent AWGN at f_{c2}:

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-45.76	29.04	-74.80	0.90	-75.70	-62	Ceased
-47.75	29.04	-76.79	0.90	-77.69	-62	Minimal
-51.75	29.04	-80.79	0.90	-81.69	-62	Normal

Incumbent AWGN at f_{c1}:

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-36.23	28.31	-64.54	0.90	-65.44	-62	Ceased
-39.21	28.31	-67.52	0.90	-68.42	-62	Minimal
-48.23	28.31	-76.54	0.90	-77.44	-62	Normal

Incumbent AWGN at f_{c3}:

Measured Incumbent Power at the EUT Test Fixture Connector (dBm)	Test Fixture Cable Path Loss (dB)	Adjusted Incumbent Power at the Radio Port (dBm)	Antenna Gain (dBi)	Adjusted Incumbent Power at the Antenna (dBm)	Detection Limit (dBm)	EUT Tx Status
-44.94	28.76	-73.70	0.90	-74.60	-62	Ceased
-46.91	28.76	-75.67	0.90	-76.57	-62	Minimal
-50.88	28.76	-79.64	0.90	-80.54	-62	Normal

9. SETUP PHOTOS

Please refer to R16197846-EP1 for setup photos.

END OF TEST REPORT