

TEST REPORT

Report Number : R15980274-C2

Applicant : Samsung Electronics Co Ltd
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea

Model : SC-51G, SCG36

FCC ID : A3LSMS942JPN

EUT Description : GSM/WCDMA/LTE/NR Phone + BT/BLE, DTS/UNII
a/b/g/n/ac/ax/be, WPT and NFC

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

Date Of Issue:

2025-12-22

Prepared by:

UL LLC

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-12-18	Initial Issue	Samuel Bryson
V2	2025-12-18	Revised model numbers.	Samuel Bryson
V3	2025-12-22	Added model differences statement.	Samuel Bryson

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Samsung Electronics Co Ltd
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea

EUT DESCRIPTION: GSM/WCDMA/LTE/NR Phone + BT/BLE, DTS/
UNII a/b/g/n/ac/ax/be, WPT and NFC

MODEL: SC-51G, SCG36

SERIAL NUMBER: YIB2880M

DATE TESTED: 2025-11-25 to 2025-12-01

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
Contention Based Protocol Portion of 47 CFR Part 15 Subpart E, KDB 987594	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.

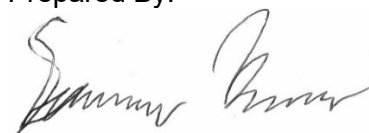
This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

Approved & Released For
UL LLC By:



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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

3. SUMMARY OF TEST RESULTS

Requirement Description	Result	Remarks
Contention Based Protocol Portion of FCC 47 CFR PART 15 SUBPART E, KDB 987594	Complies	

4. REFERENCE DOCUMENTS

Measurements of transmitter parameters as referenced in this report and all other manufacturer's declarations relevant to the RF test requirements are documented in UL LLC report number R15980274-E9c.

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 7.2.5)

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 Durham, 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.

7.1.2. FREQUENCY BANDS AND GOVERNING RULES

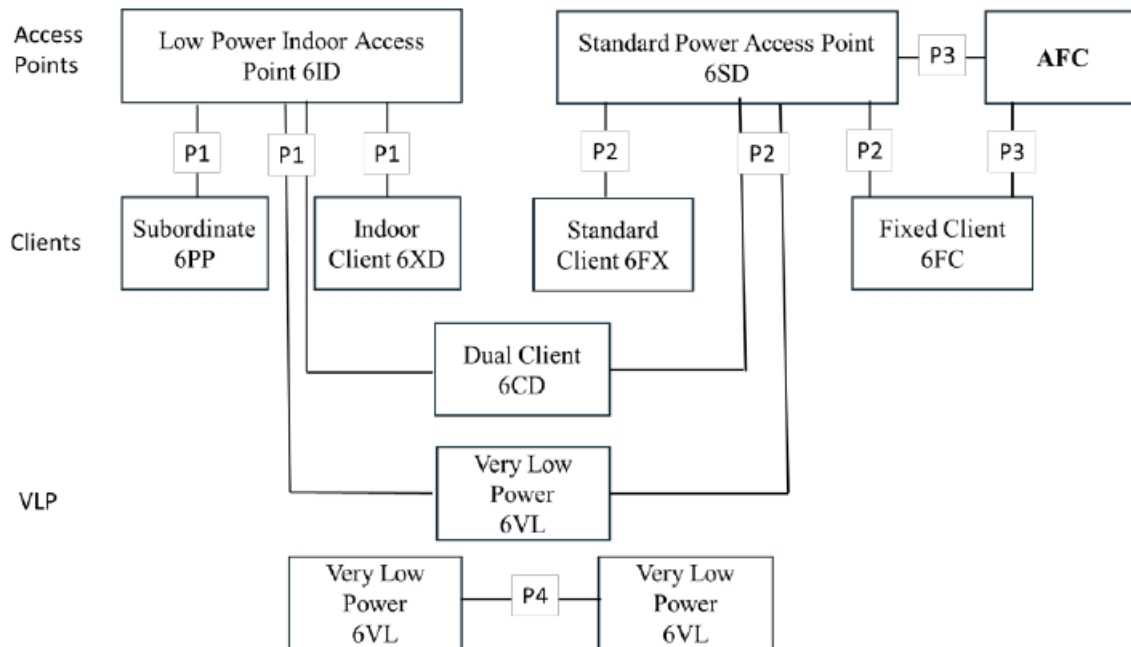
FCC

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

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.

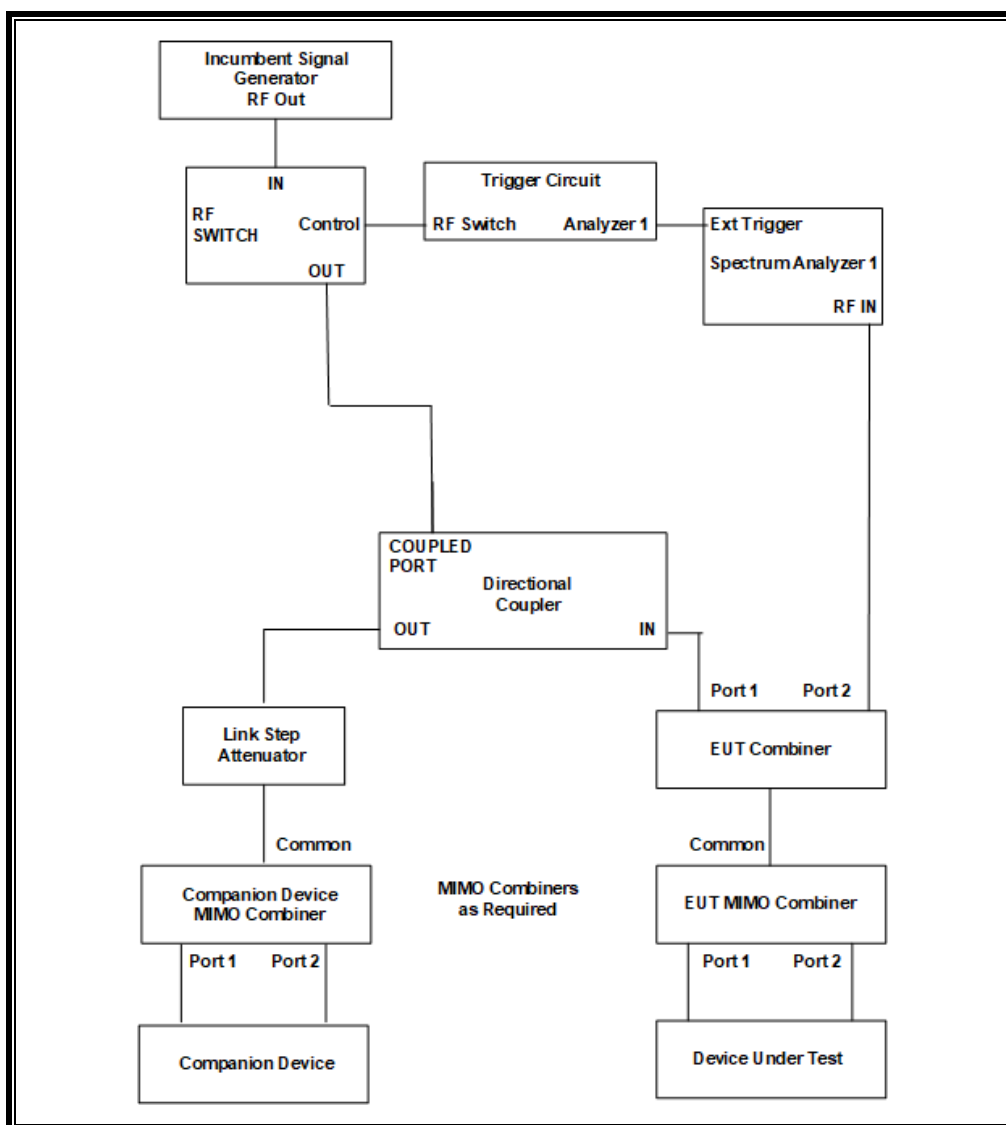
7.2. DESCRIPTION OF TEST SETUP

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 SISO configuration with one transmit/receive chain 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 the port on the EUT is then attached to the spectrum analyzer in place of the monitoring cable. 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.

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.

7.2.2. 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

7.2.3. TEST ROOM ENVIRONMENT

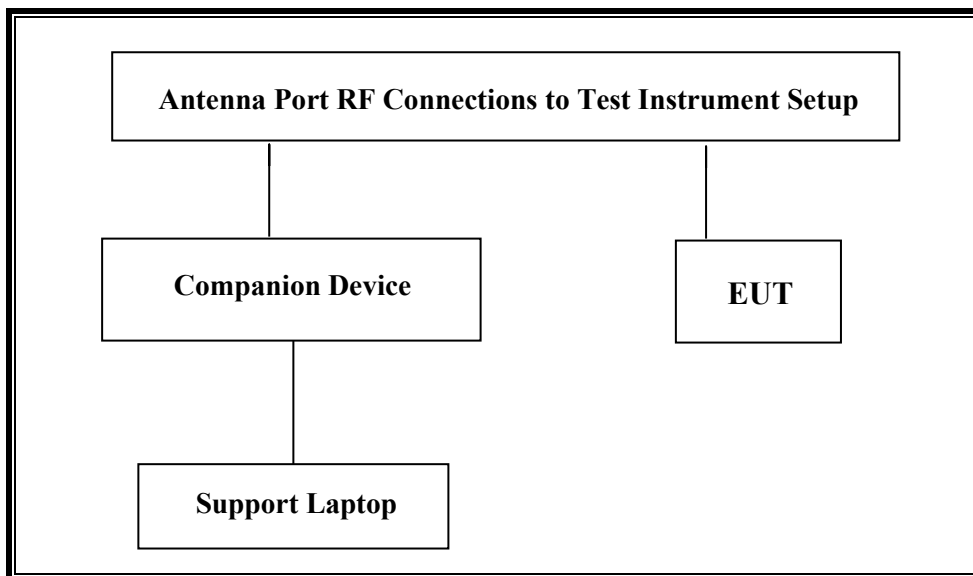
The test room temperature and humidity shall be maintained within normal temperature of 15~35 °C and normal humidity 20~75% (relative humidity).

ENVIRONMENT CONDITION

Parameter	Value
Temperature	19.6 – 24.3 °C
Humidity	23.0 – 48.5 %

7.2.4. 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
Access Point	ASUS	RT-BE96U	R8IG6G200663DZ3	MSQ-RTBE6G00
AP Power Supply	Ac Bel	ADDD011 LPS	ADD01117AG220706564A	N/A
Support Laptop	HP	14-dk1003dx	5CGO16B3DL	TX2-RTL8821CE
Laptop Power Supply	HP	HSTNN-CA40	N/A	N/A
RF Shielded Chamber	OctoScope	OB-26	OB2650224-01	N/A

TEST SETUP

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.

7.2.5. 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).

Client EUT EIRP and antenna assembly gain information can be found in the RF report referenced in section 4 of this report.

The EUT is classified as a 6 GHz Dual Client / 6 GHz VLP Device.

The hardware including the antenna assembly utilized with the parent & variant EUT is identical.

Two antennas are utilized to meet the diversity and MIMO operational requirements.

WLAN traffic was generated by transferring a data stream from the EUT to the Companion Device using iPerf3 version 3.0.10 software package.

The manufacturer declares that Channel Puncturing is supported but is used only for network optimization and is not used for the purposes of avoiding incumbents.

The manufacturer declares that Channel Bandwidth Reduction is supported.

The EUT utilizes the 802.11ax and 802.11be architecture. Five nominal channel bandwidths are implemented: 20 MHz, 40 MHz, 80 MHz, 160 MHz and 320 MHz.

The software installed in the Companion Device is 3.0.0.6.102_32882.

This report covers 2 models, the model differences and the representative model is shown below:

Representative Model	Difference	Derivative Model
		SCG36
SC-51G	Hardware	Same as SC-51G
	Software	Different UI

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	-3.88	-65.88
U-NII 6	6425 to 6525	-6.03	-68.03
U-NII 7	6525 to 6875	-5.51	-67.51
U-NII 8	6875 to 7125	-4.59	-66.59

The path loss from the internal antenna assembly to the radio port is incorporated into the antenna gain figure.

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.

8.2. U-NII 5 LOW BANDWIDTH RESULTS

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

The lowest supported channel bandwidth is 20 MHz which meets the criteria for test condition 2 to be performed.

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

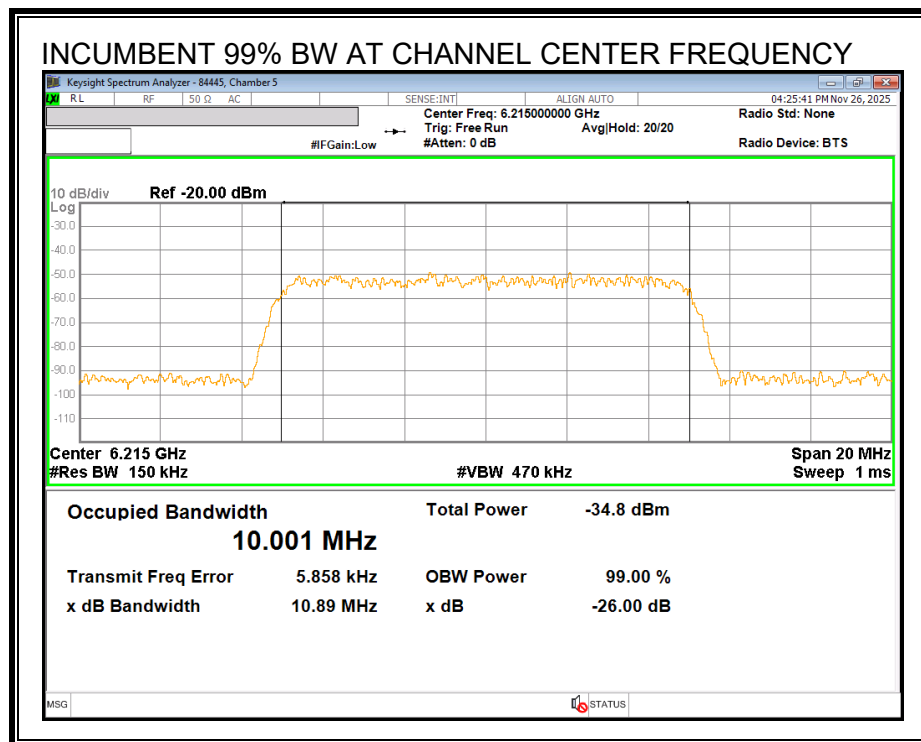
TEST CONDITION 2 CRITERIA

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

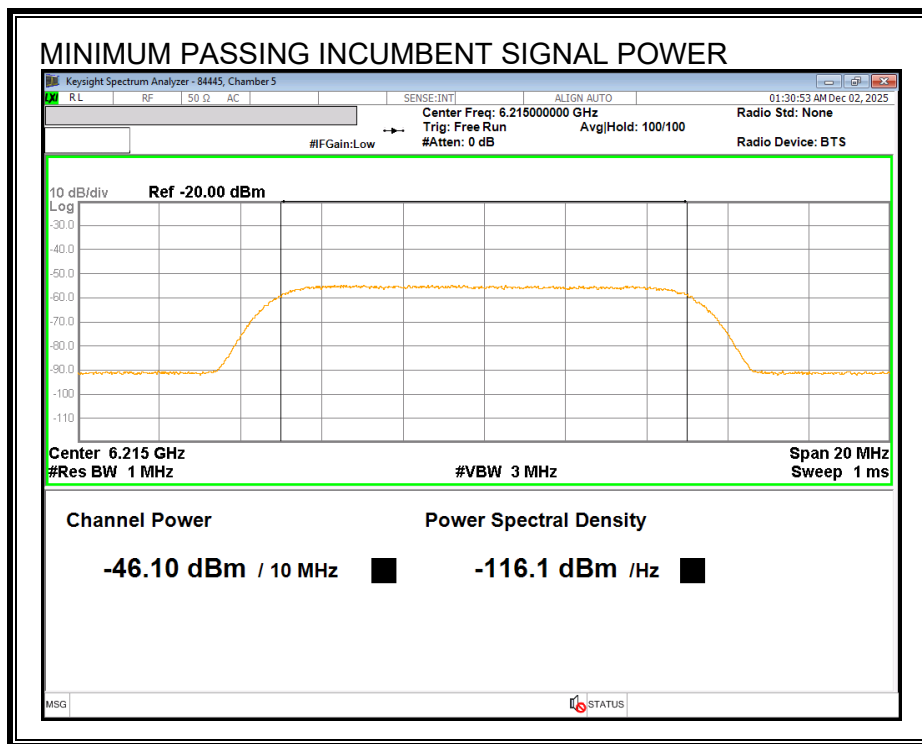
8.2.1. INCUMBENT SIGNAL PLOTS

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 SIGNAL 99% OCCUPIED POWER BANDWIDTH

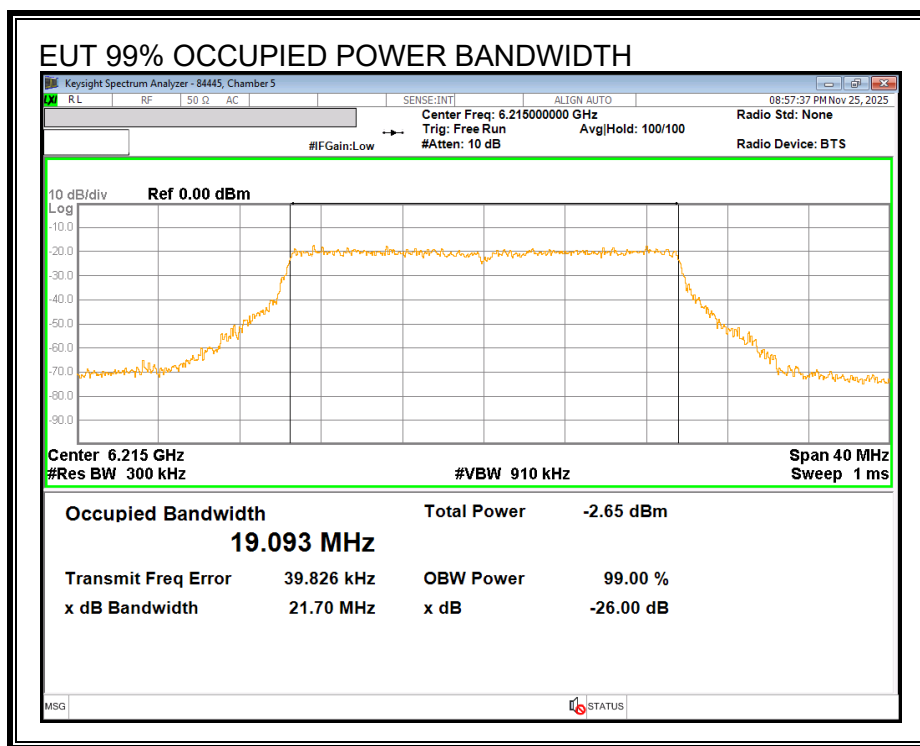


MINIMUM PASSING INCUMBENT SIGNAL POWER

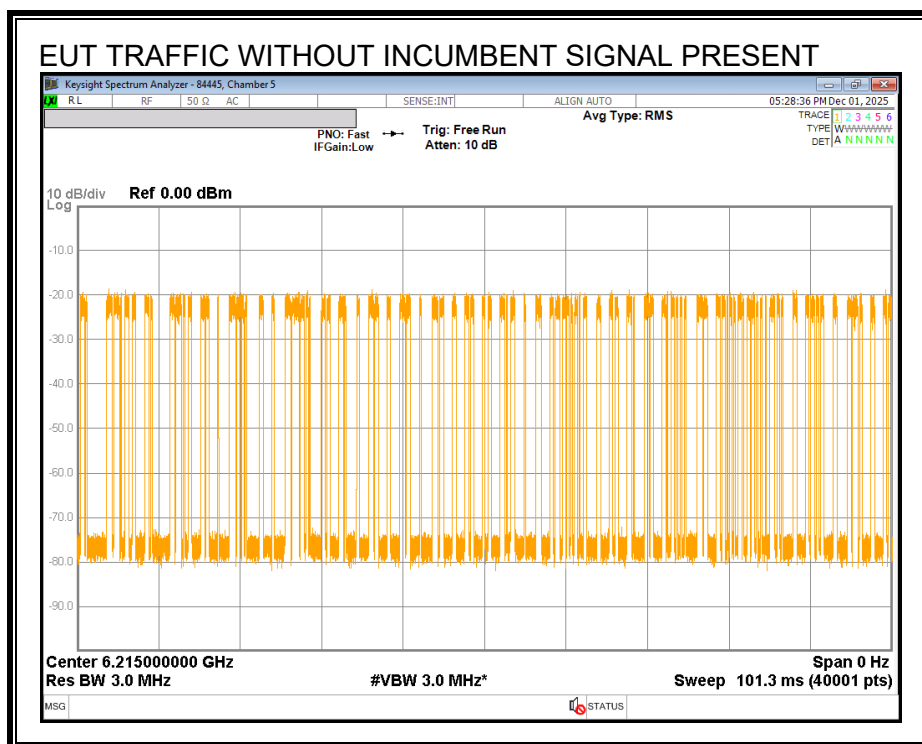


8.2.2. EUT TRANSMISSION PLOTS

EUT 99% OCCUPIED POWER BANDWIDTH

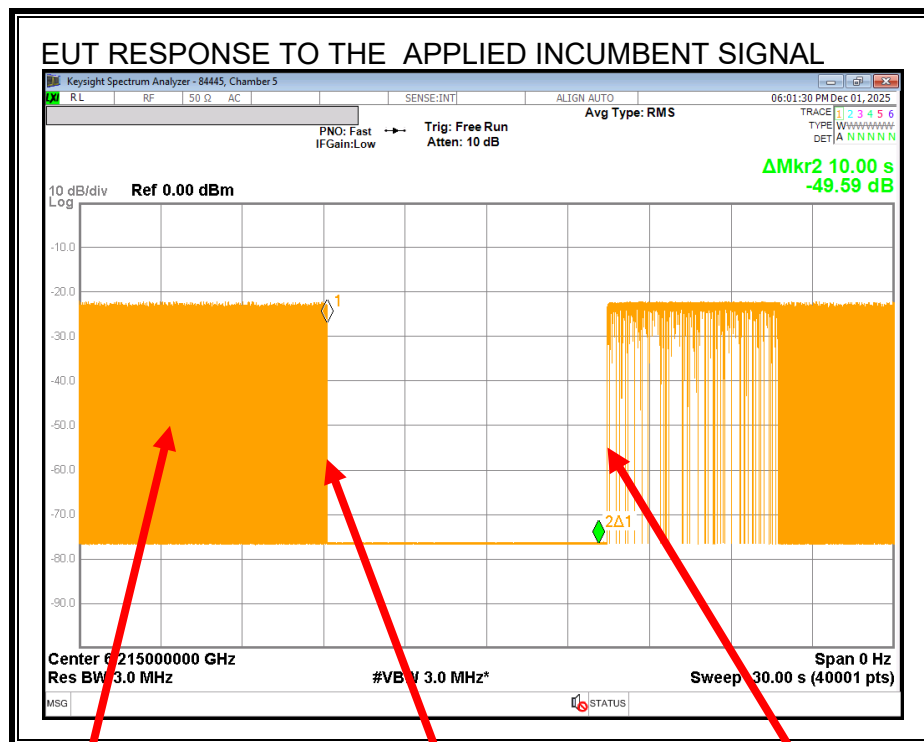


TRAFFIC WITHOUT THE INCUMBENT SIGNAL PRESENT



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.

8.2.3. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2025-12-01
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)	19.093
EUT 99% OBW Lower Edge, F_L (MHz)	6205.45
EUT 99% OBW Upper Edge, F_H (MHz)	6224.55
Test Frequency of Incumbent Signal (MHz)	6215
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	-3.88
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-65.88
Lowest Passing Measured Incumbent Signal Amplitude at Test Fixture(dBm)	-46.10
Test Fixture Cable Loss	28.61
Lowest Passing Measured Incumbent Signal Amplitude (dBm)	-74.71
Margin (dBm)	-8.83
Result (PASS / FAIL)	PASS

INCUMBENT SIGNAL DETECTION CERTAINTY RATE

Test Date	2025-12-01
Tested By	84445
Test Location	Chamber 5

AWGN Detected (Yes / No)	
Trial	Incumbent AWGN at f_{c1}
1	Yes
2	Yes
3	Yes
4	Yes
5	Yes
6	Yes
7	Yes
8	Yes
9	Yes
10	Yes
Test Result	PASS

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

Tx OPERATIONAL STATUS TEST RESULTS

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

Test Date	2025-12-01
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
-46.10	28.61	-74.71	-3.88	-70.83	-62	Ceased
-50.09	28.61	-78.70	-3.88	-74.82	-62	Minimal
-51.07	28.61	-79.68	-3.88	-75.80	-62	Normal

8.3. U-NII 5 HIGH BANDWIDTH RESULTS

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

The highest supported channel bandwidth is 320 MHz which meets the criteria for test condition 4 to be performed.

All tests were performed with the EUT set to a channel center frequency of 6105 MHz.

TEST CONDITION 4 CRITERIA

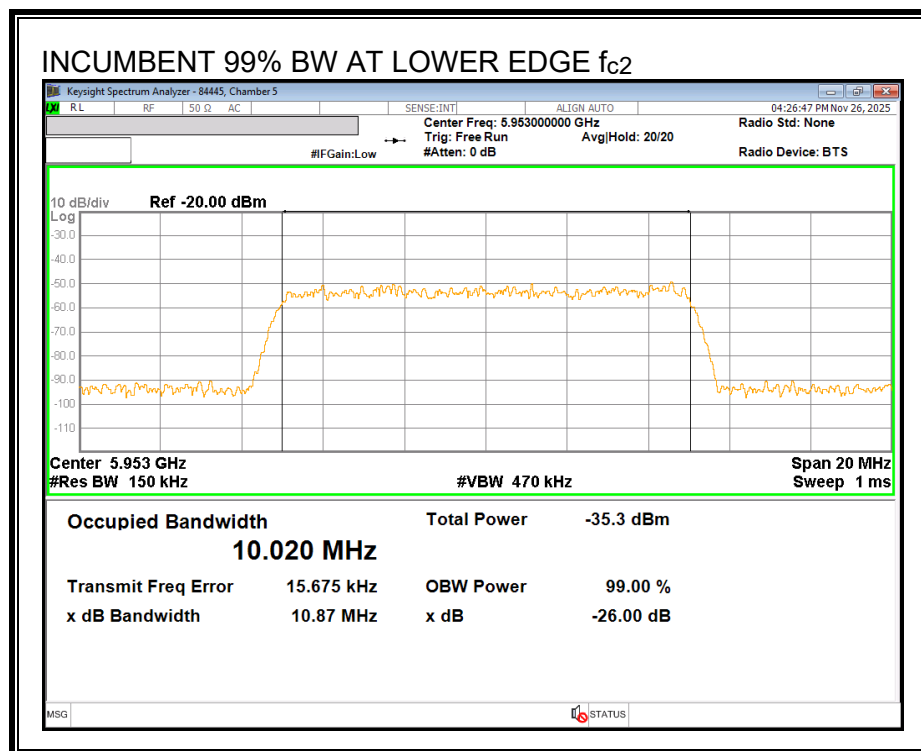
$$99\% BW_{EUT} > 4 \times 99\% BW_{INC}$$

8.3.1. INCUMBENT SIGNAL PLOTS

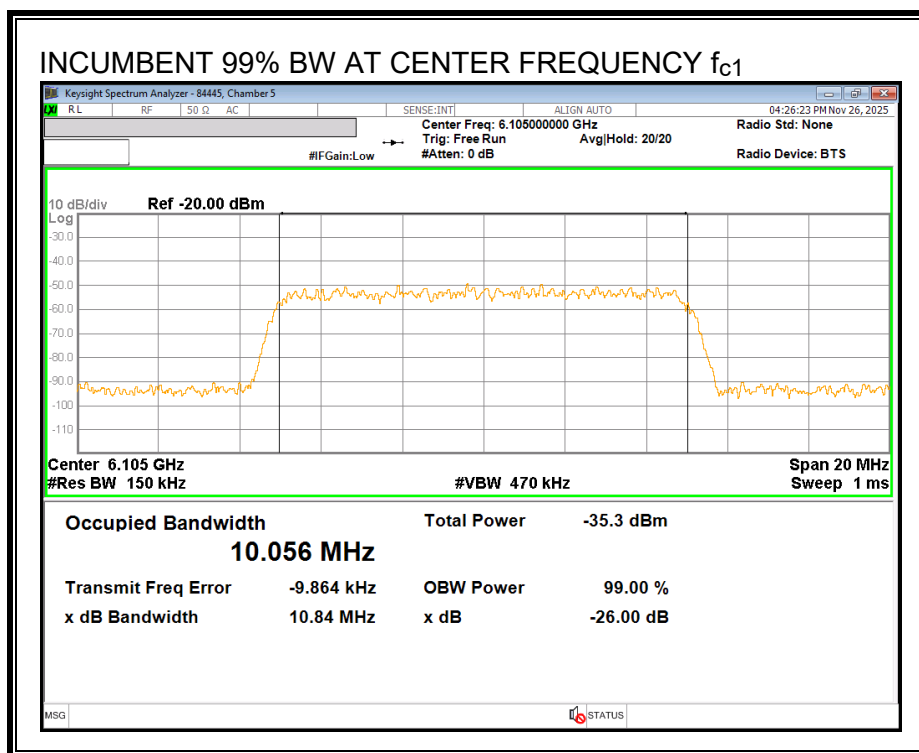
All tests were performed with the Incumbent Signal frequency set to the test channel center frequency and a nominal 99% Occupied Power Bandwidth of 10 MHz.

INCUMBENT SIGNAL 99% OCCUPIED POWER BANDWIDTH

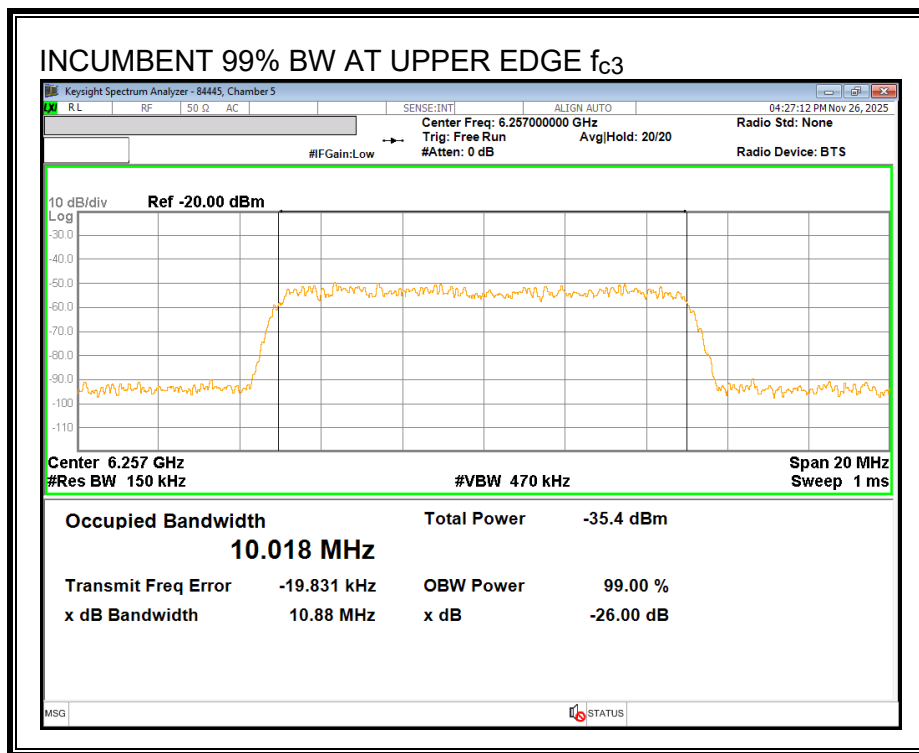
Lower Edge Incumbent Signal f_{c2} :



Center Frequency Incumbent Signal f_{c1} :

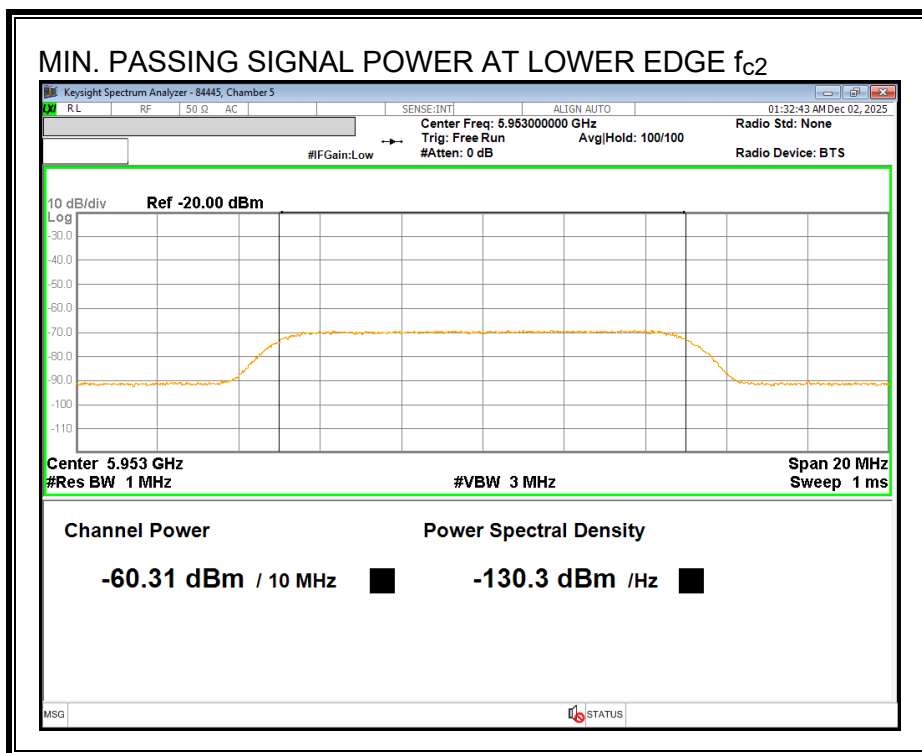


Upper Edge Incumbent Signal f_{c3} :

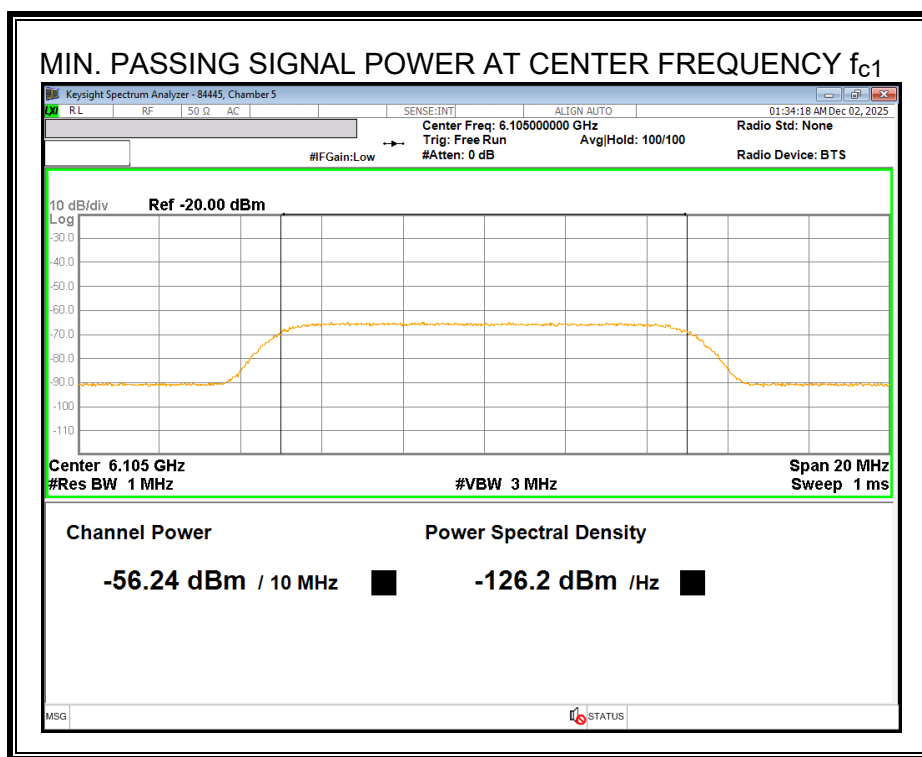


MINIMUM PASSING INCUMBENT SIGNAL POWER

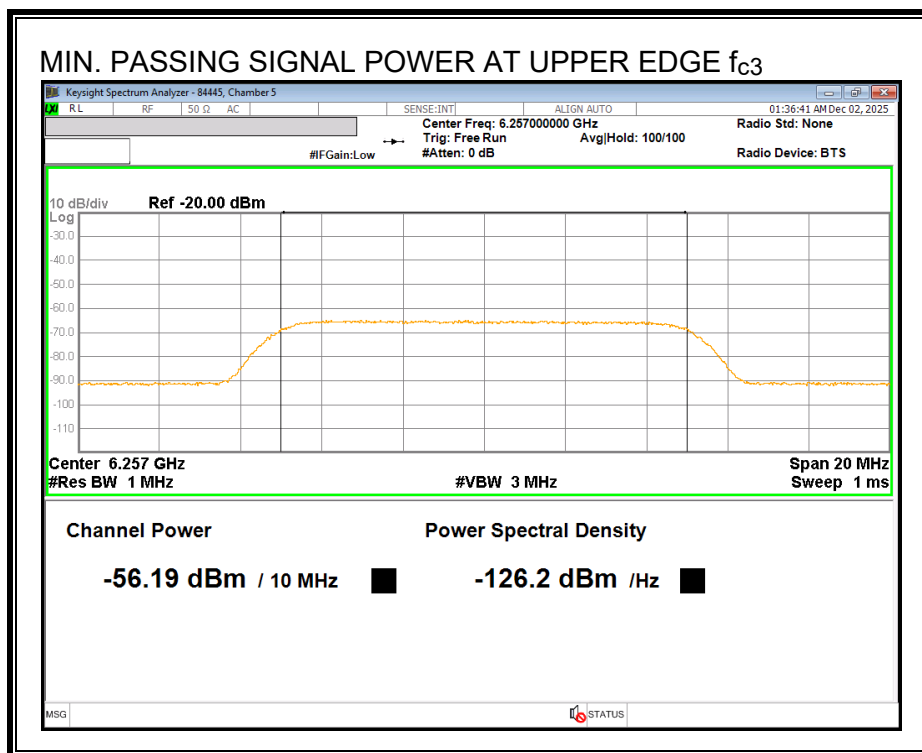
Lower Edge Incumbent Signal f_{c2} :



Center Frequency Incumbent Signal f_{c1} :

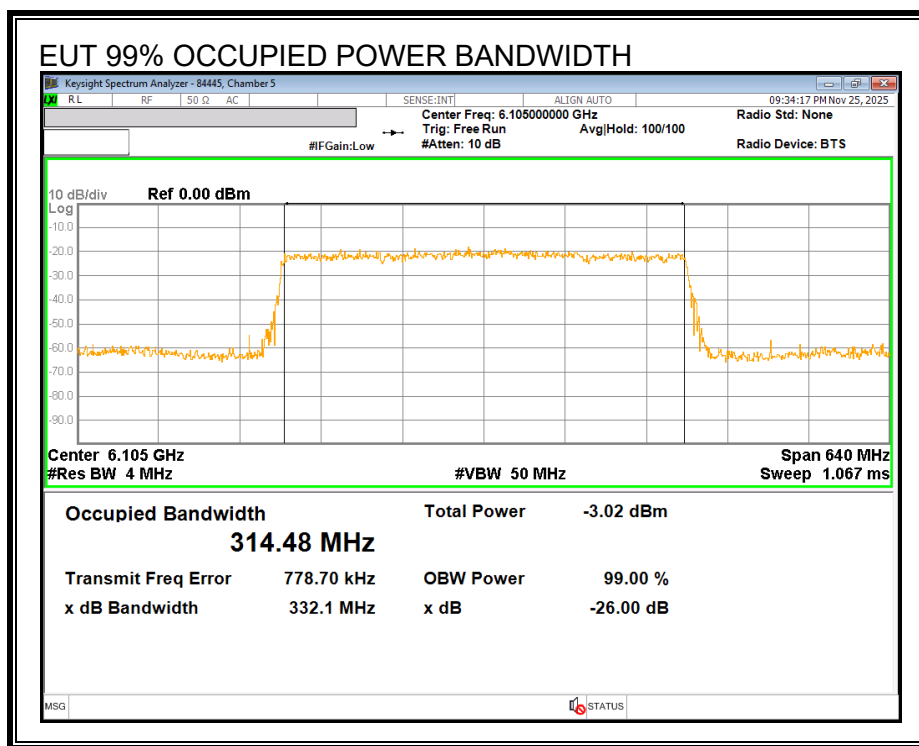


Upper Edge Incumbent Signal f_{c3} :



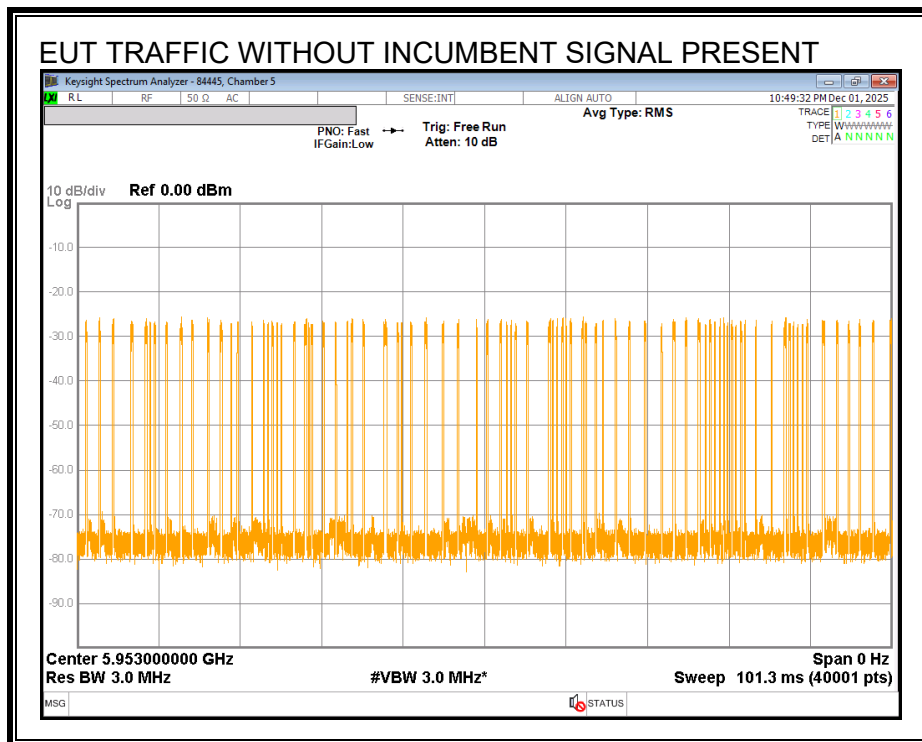
8.3.2. EUT TRANSMISSION PLOTS

EUT 99% OCCUPIED POWER BANDWIDTH

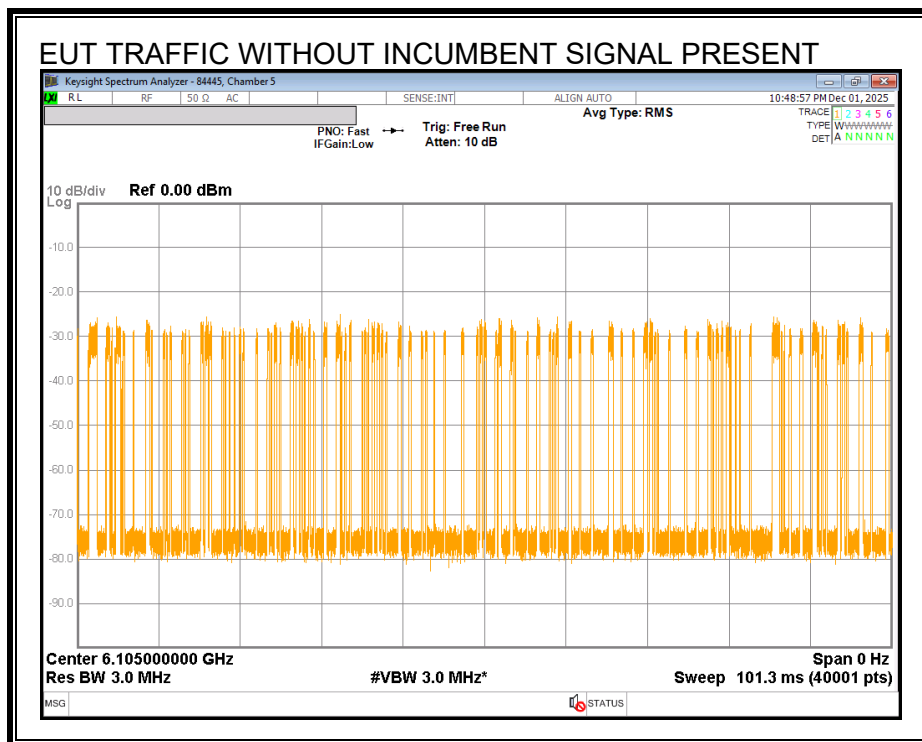


TRAFFIC WITHOUT THE INCUMBENT SIGNAL PRESENT

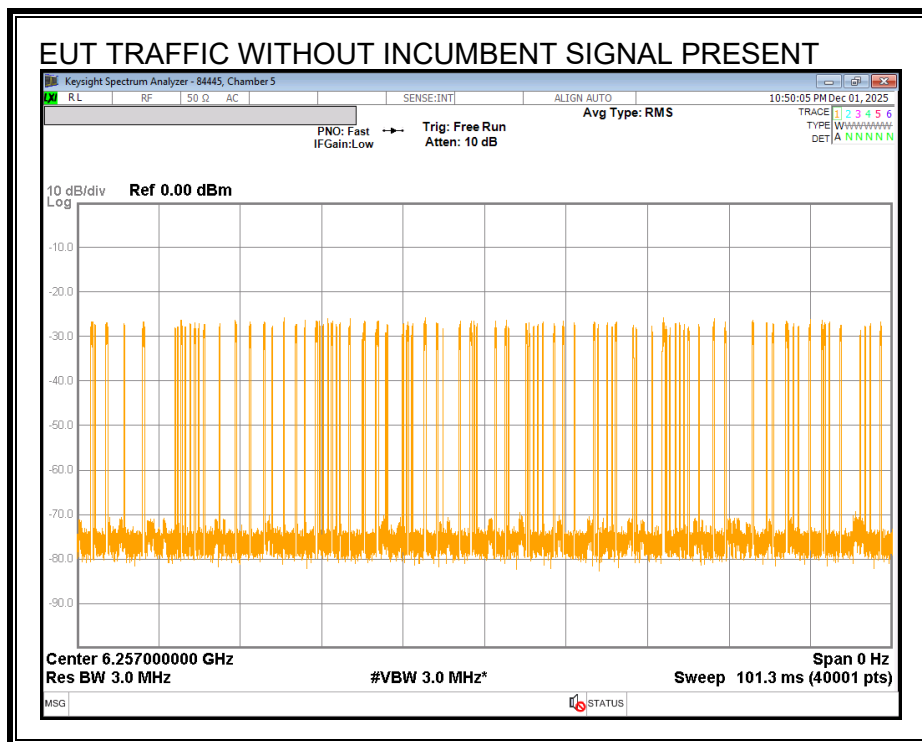
Lower Edge f_{c2} :



Center Frequency f_{c1} :



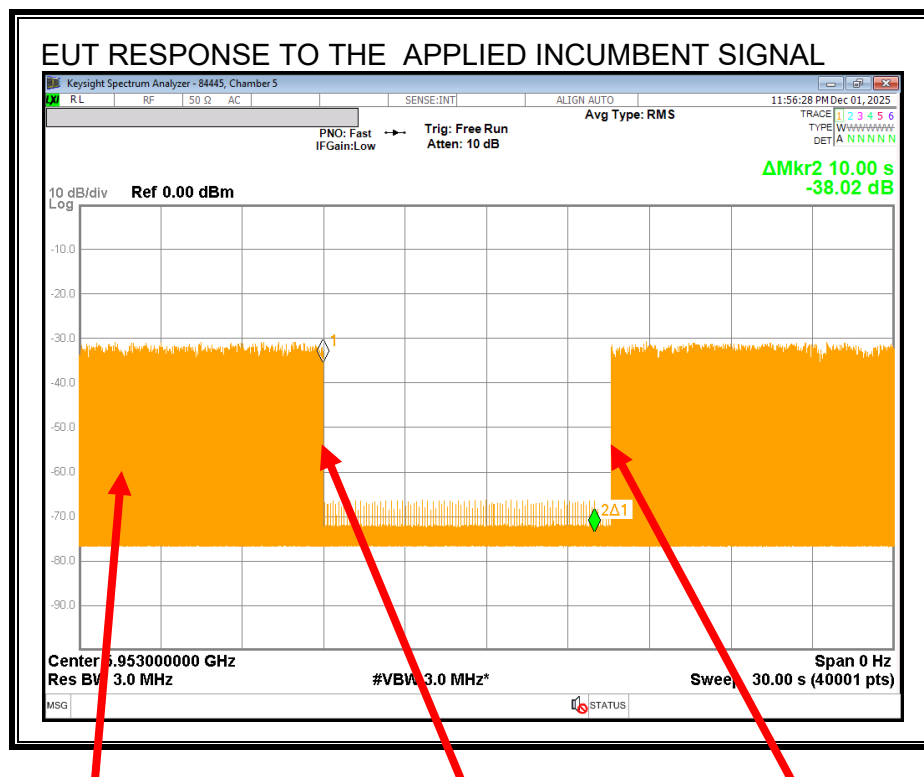
Upper Edge f_{c3}:



EUT RESPONSE TO THE APPLIED INCUMBENT SIGNAL

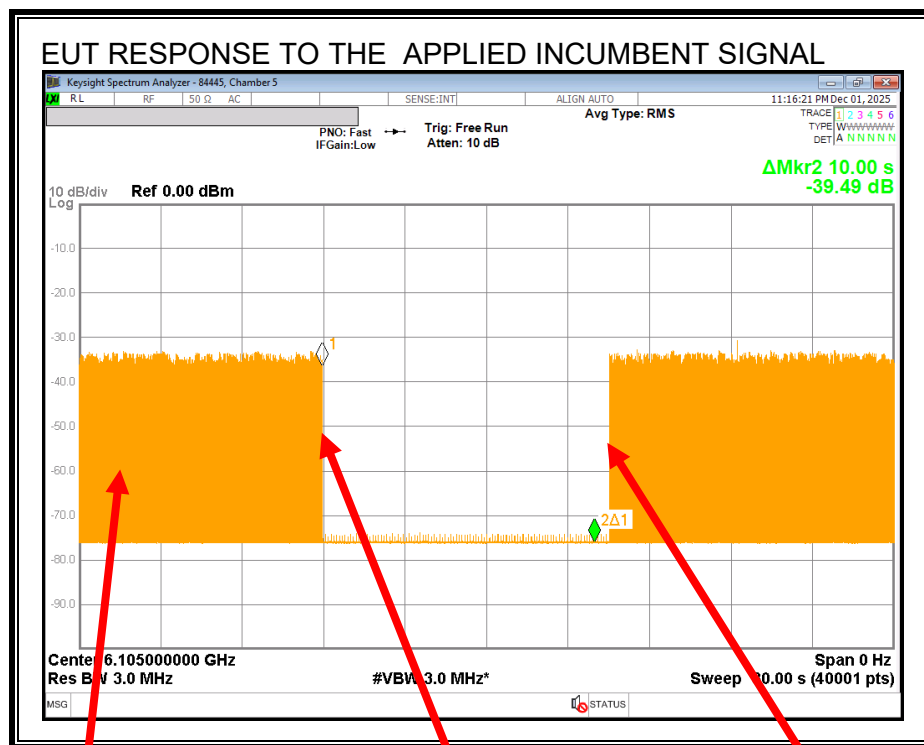
A link between the EUT and the Companion Device was established on the test channel. Traffic flowing from the EUT to the Companion Device was then initiated. A sweep was started and the incumbent signal was continuously applied at approximately 9 seconds after the start of the sweep for a minimum duration 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} :



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

Center Frequency Incumbent Signal f_{c1} :



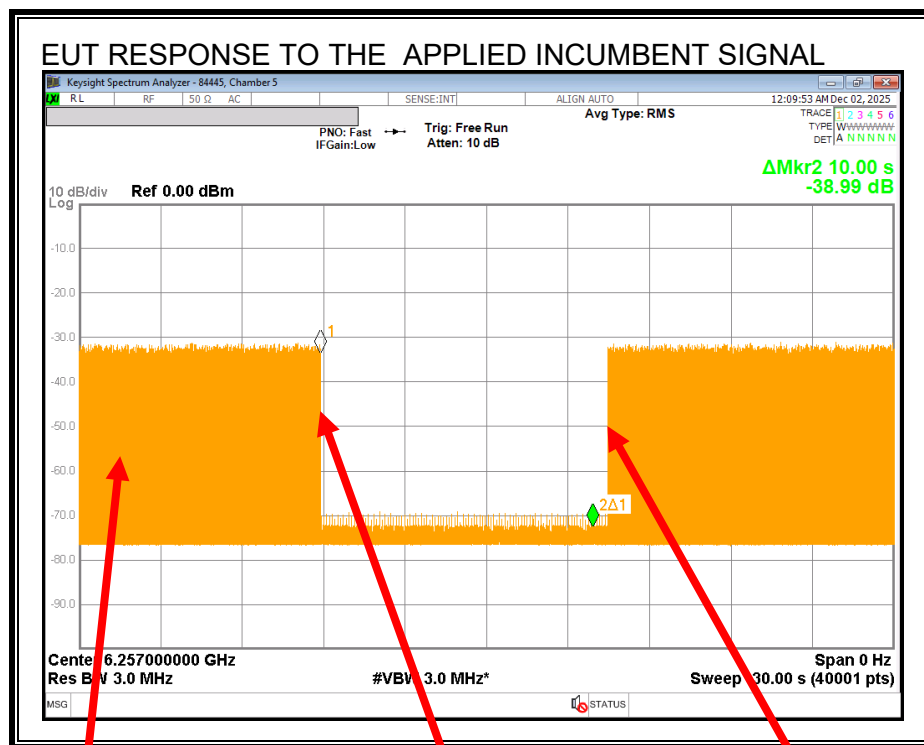
Normal Traffic

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

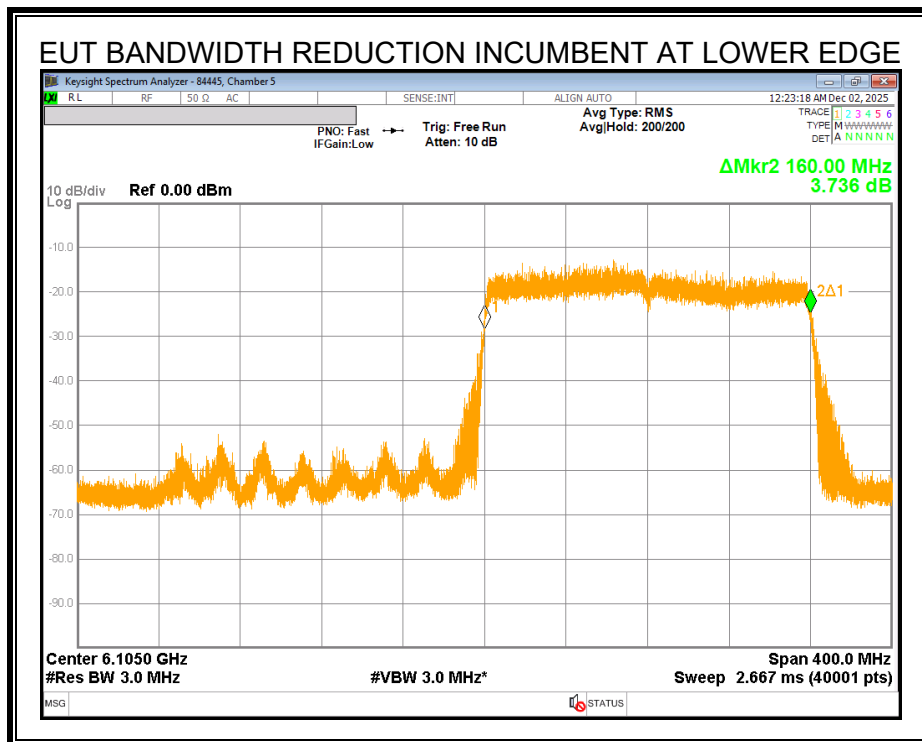
Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

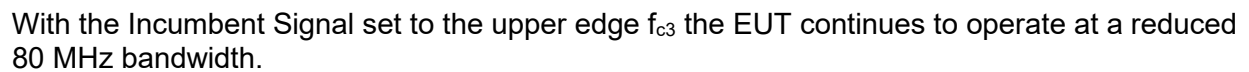
Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

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 160 MHz bandwidth.



8.3.3. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2025-12-01
Tested By	84445
Test Location	Chamber 5

EUT Channel Center Frequency, f_{c1} (MHz)	6105
EUT Nominal Channel Bandwidth (MHz)	320
99% Occupied Bandwidth of the EUT (MHz)	314.48
EUT 99% OBW Lower Edge, F_L (MHz)	5947.76
EUT 99% OBW Upper Edge, F_H (MHz)	6262.24
99% Occupied Bandwidth of the Incumbent Signal (MHz)	10.056
Test Frequency of Incumbent Signal (f_{c2}) Near EUT F_L (MHz)	5953
Test Frequency of Incumbent Signal at f_{c1} (MHz)	6105
Test Frequency of Incumbent Signal (f_{c3}) Near EUT F_H (MHz)	6257
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	-3.88
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-65.88
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} at Test Fixture (dBm)	-60.31
Test Fixture Cable Loss	28.58
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} (dBm)	-88.89
Margin (dBm)	-23.01
Result (PASS / FAIL)	PASS
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} at Test Fixture (dBm)	-56.24
Test Fixture Cable Loss	28.72
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} (dBm)	-84.96
Margin (dBm)	-19.08
Result (PASS / FAIL)	PASS
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} at Test Fixture (dBm)	-56.19
Test Fixture Cable Loss	28.82
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} (dBm)	-85.01
Margin (dBm)	-19.13
Result (PASS / FAIL)	PASS

INCUMBENT SIGNAL DETECTION CERTAINTY RATE

Test Date	2025-12-01
Tested By	84445
Test Location	Chamber 5

Trial	AWGN Detected (Yes / No)		
	Incumbent AWGN at f_{c2}	Incumbent AWGN at f_{c1}	Incumbent AWGN at f_{c3}
1	Yes	Yes	Yes
2	Yes	Yes	Yes
3	Yes	Yes	Yes
4	Yes	Yes	Yes
5	Yes	Yes	Yes
6	Yes	Yes	Yes
7	Yes	Yes	Yes
8	Yes	Yes	Yes
9	Yes	Yes	Yes
10	Yes	Yes	Yes
Test Result	PASS	PASS	PASS

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

Tx OPERATIONAL STATUS TEST RESULTS

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

Test Date	2025-12-01
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
-60.31	28.58	-88.89	-3.88	-85.01	-62	Ceased
-62.31	28.58	-90.89	-3.88	-87.01	-62	Minimal
-65.30	28.58	-93.88	-3.88	-90.00	-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
-56.24	28.72	-84.96	-3.88	-81.08	-62	Ceased
-58.22	28.72	-86.94	-3.88	-83.06	-62	Minimal
-61.27	28.72	-89.99	-3.88	-86.11	-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
-56.19	28.82	-85.01	-3.88	-81.13	-62	Ceased
-59.19	28.82	-88.01	-3.88	-84.13	-62	Minimal
-63.15	28.82	-91.97	-3.88	-88.09	-62	Normal

8.4. U-NII 6 LOW BANDWIDTH RESULTS

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

The lowest supported channel bandwidth is 20 MHz which meets the criteria for test condition 2 to be performed.

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

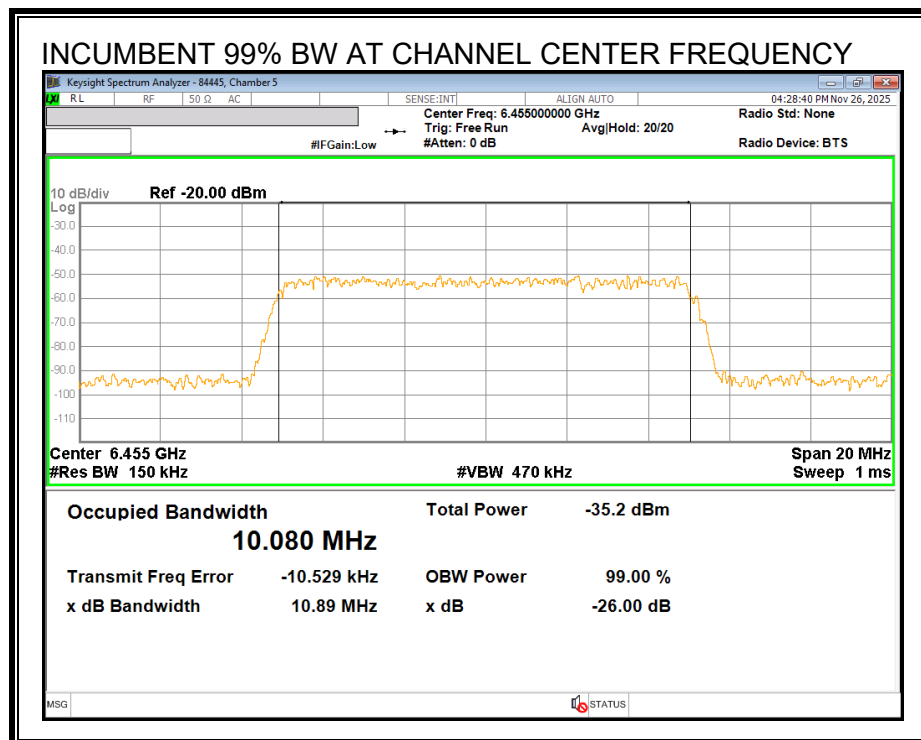
TEST CONDITION 2 CRITERIA

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

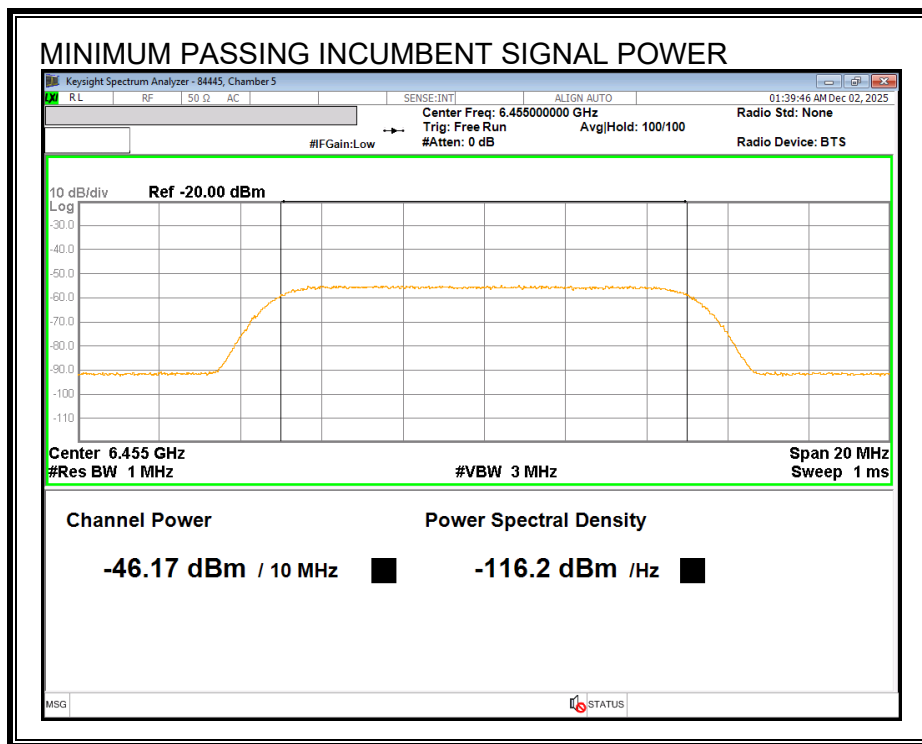
8.4.1. INCUMBENT SIGNAL PLOTS

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 SIGNAL 99% OCCUPIED POWER BANDWIDTH

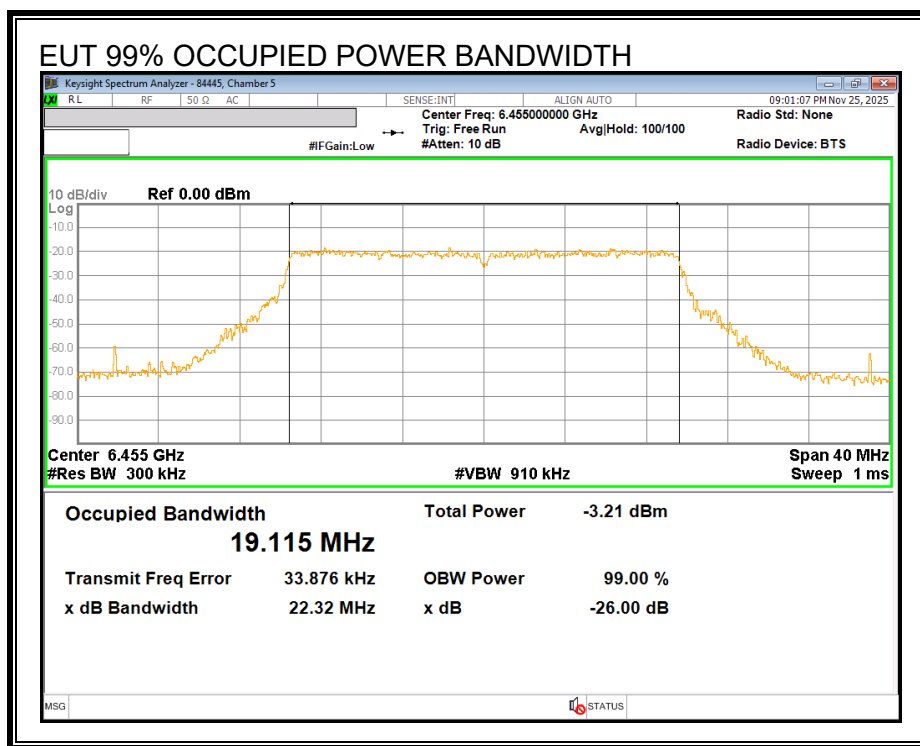


MINIMUM PASSING INCUMBENT SIGNAL POWER

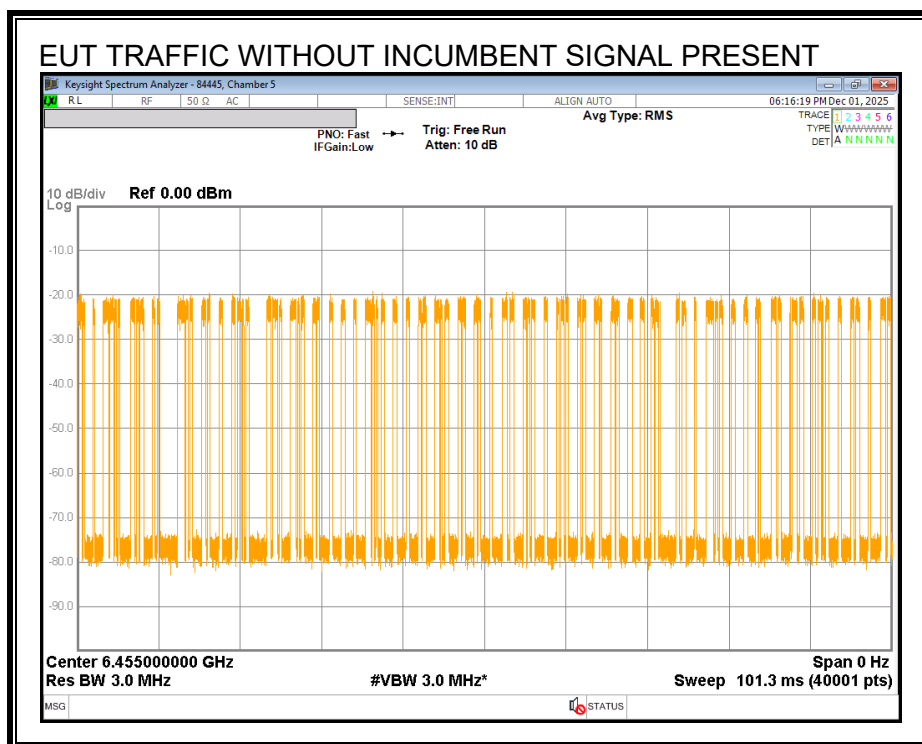


8.4.2. EUT TRANSMISSION PLOTS

EUT 99% OCCUPIED POWER BANDWIDTH

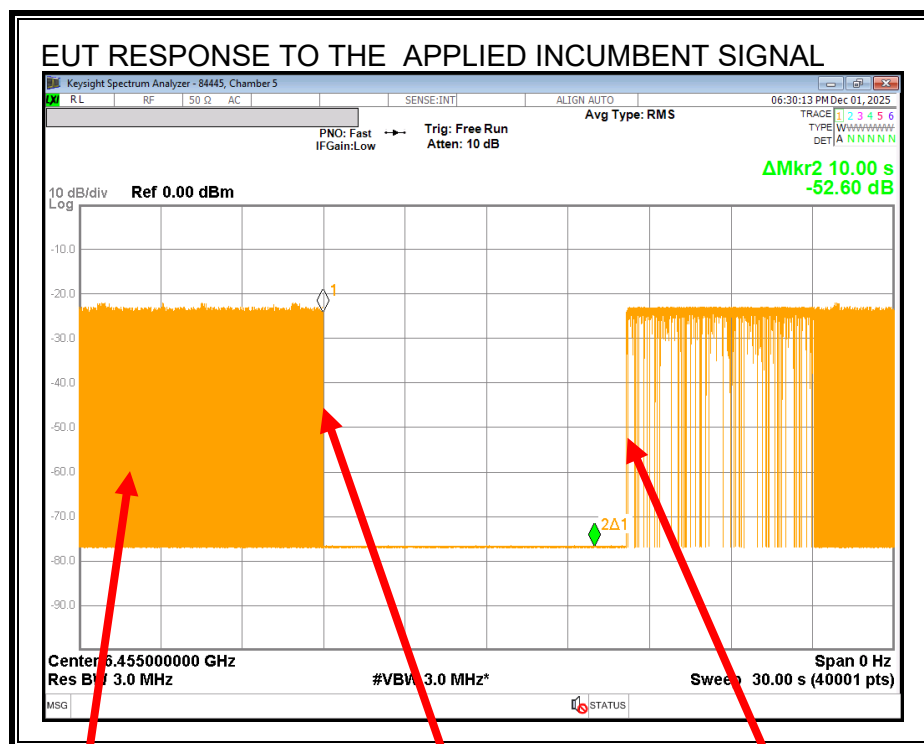


TRAFFIC WITHOUT THE INCUMBENT SIGNAL PRESENT



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.

8.4.3. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2025-12-01
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)	19.115
EUT 99% OBW Lower Edge, F_L (MHz)	6445.44
EUT 99% OBW Upper Edge, F_H (MHz)	6464.56
Test Frequency of Incumbent Signal (MHz)	6455
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	-6.03
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-68.03
Lowest Passing Measured Incumbent Signal Amplitude at Test Fixture(dBm)	-46.17
Test Fixture Cable Loss	28.69
Lowest Passing Measured Incumbent Signal Amplitude (dBm)	-74.86
Margin (dBm)	-6.83
Result (PASS / FAIL)	PASS

INCUMBENT SIGNAL DETECTION CERTAINTY RATE

Test Date	2025-12-01
Tested By	84445
Test Location	Chamber 5

AWGN Detected (Yes / No)	
Trial	Incumbent AWGN at f_{c1}
1	Yes
2	Yes
3	Yes
4	Yes
5	Yes
6	Yes
7	Yes
8	Yes
9	Yes
10	Yes
Test Result	PASS

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

Tx OPERATIONAL STATUS TEST RESULTS

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

Test Date	2025-12-01
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
-46.17	28.69	-74.86	-6.03	-68.83	-62	Ceased
-49.17	28.69	-77.86	-6.03	-71.83	-62	Minimal
-52.16	28.69	-80.85	-6.03	-74.82	-62	Normal

8.5. U-NII 6 HIGH BANDWIDTH RESULTS

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

The highest supported channel bandwidth is 320 MHz which meets the criteria for test condition 4 to be performed.

All tests were performed with the EUT set to a channel center frequency of 6425 MHz.

TEST CONDITION 4 CRITERIA

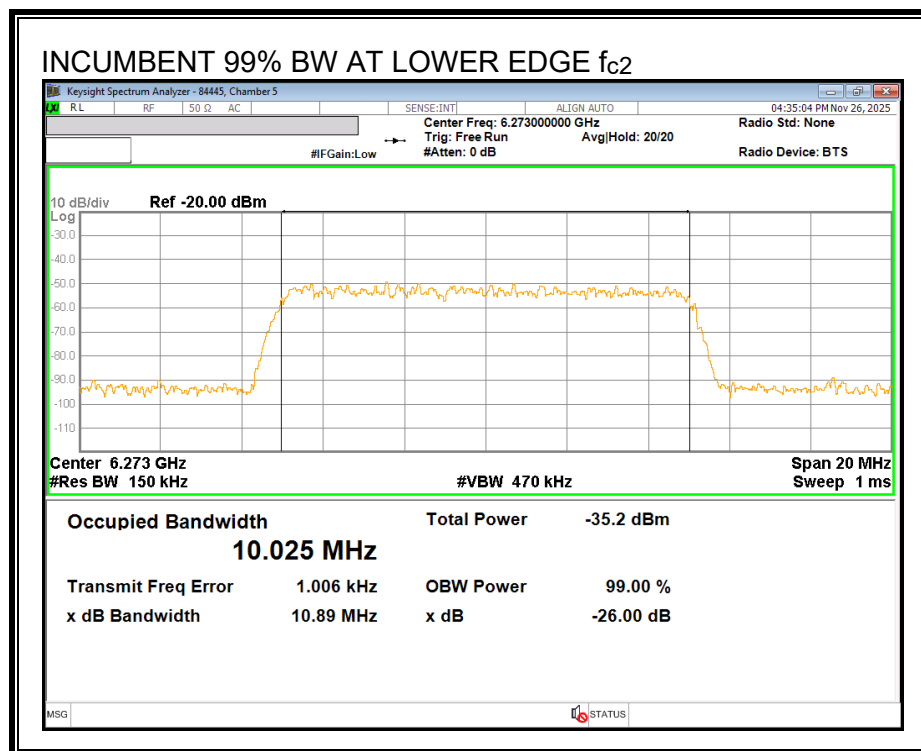
$$99\% BW_{EUT} > 4 \times 99\% BW_{INC}$$

8.5.1. INCUMBENT SIGNAL PLOTS

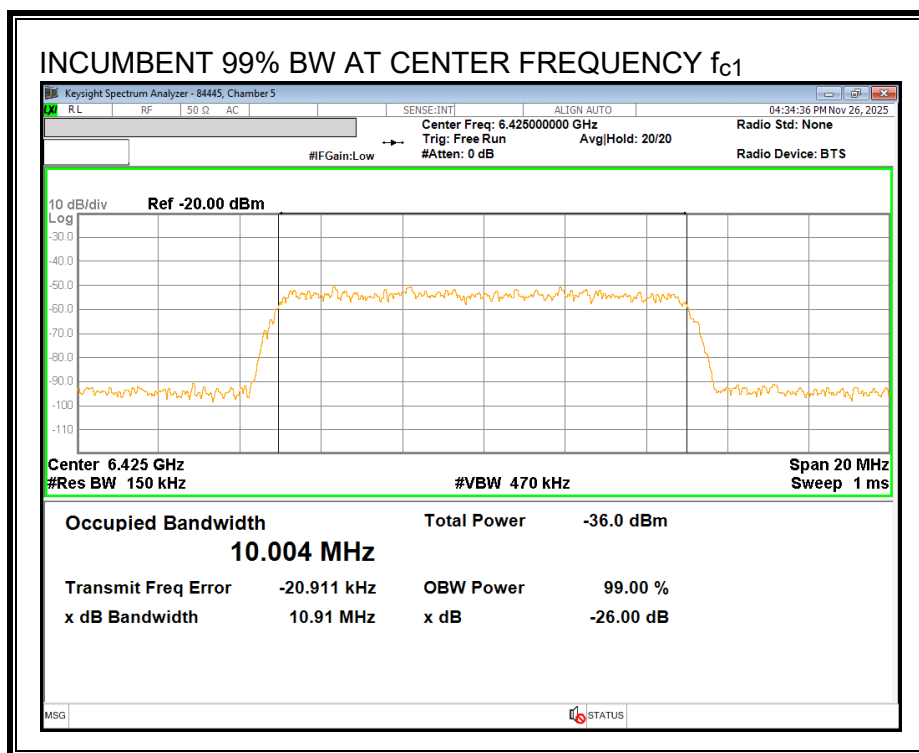
All tests were performed with the Incumbent Signal frequency set to the test channel center frequency and a nominal 99% Occupied Power Bandwidth of 10 MHz.

INCUMBENT SIGNAL 99% OCCUPIED POWER BANDWIDTH

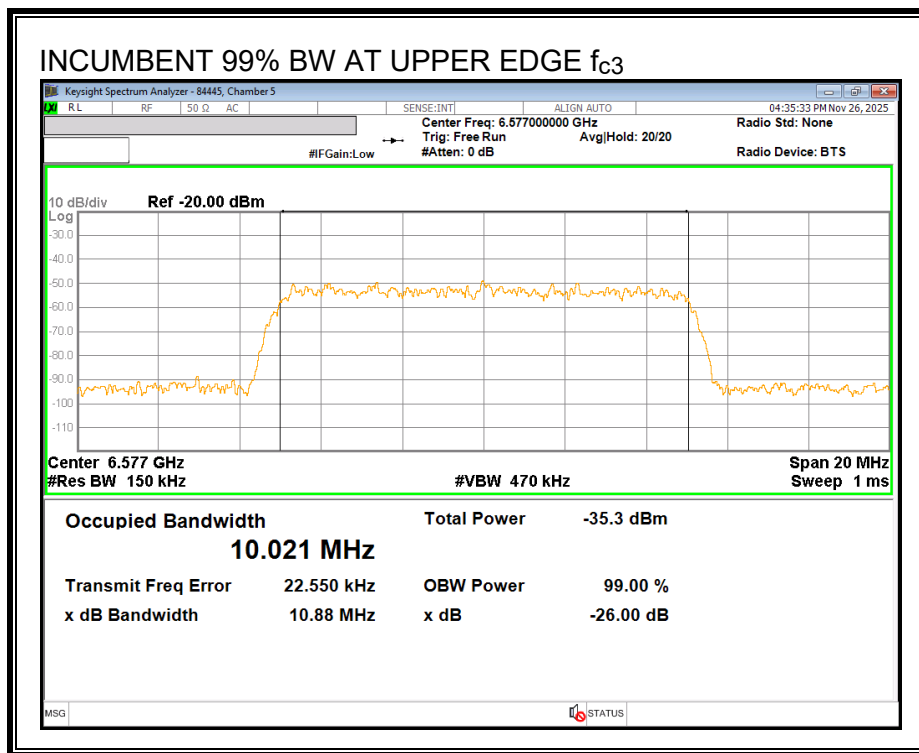
Lower Edge Incumbent Signal f_{c2} :



Center Frequency Incumbent Signal f_{c1} :

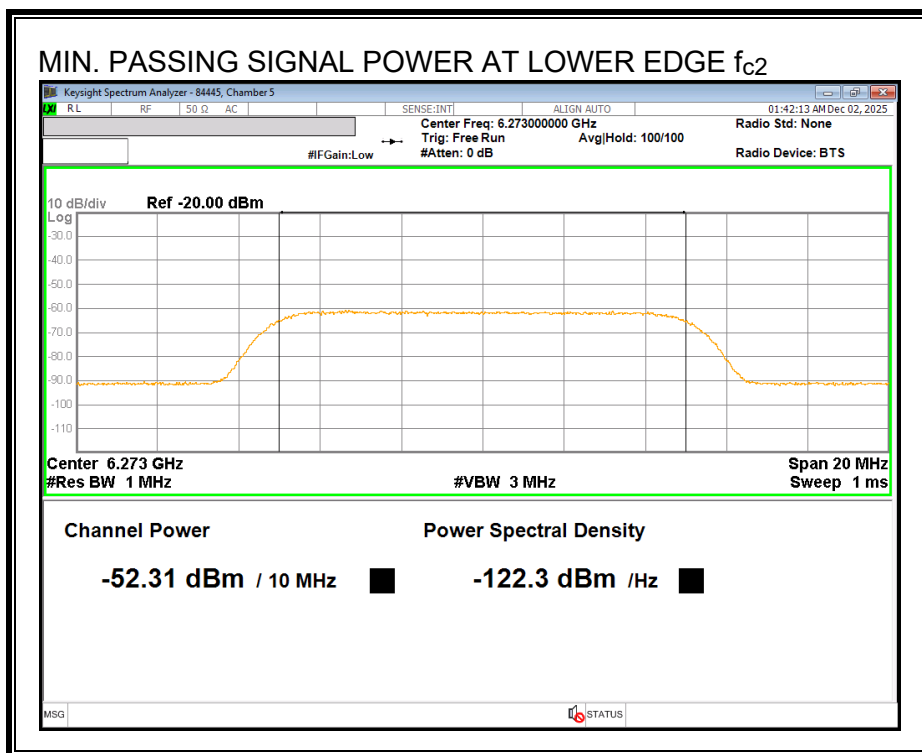


Upper Edge Incumbent Signal f_{c3} :

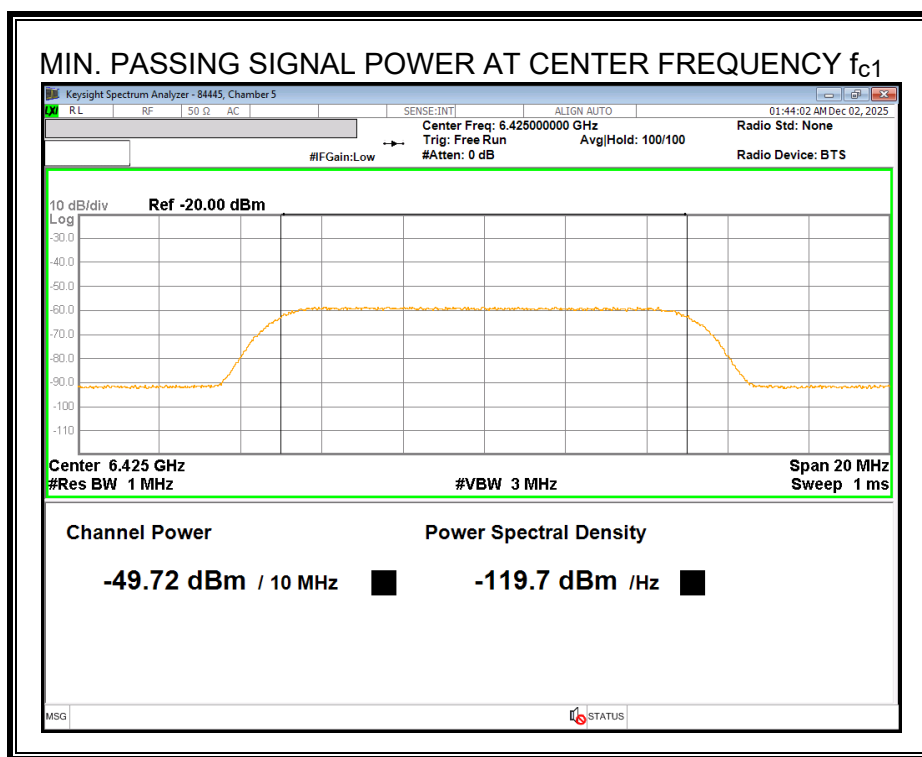


MINIMUM PASSING INCUMBENT SIGNAL POWER

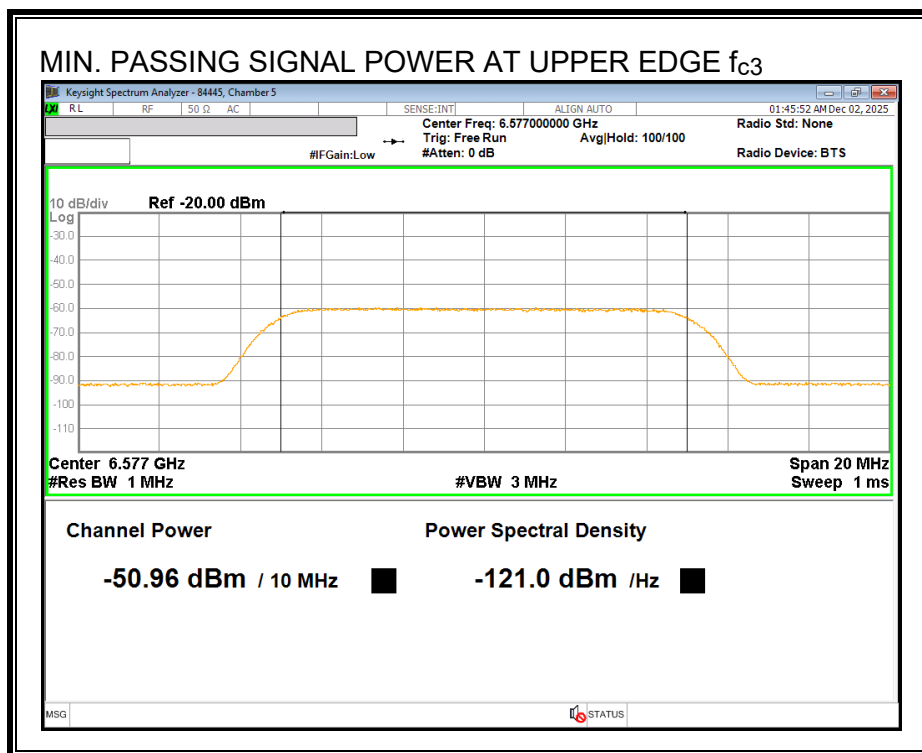
Lower Edge Incumbent Signal f_{c2} :



Center Frequency Incumbent Signal f_{c1} :

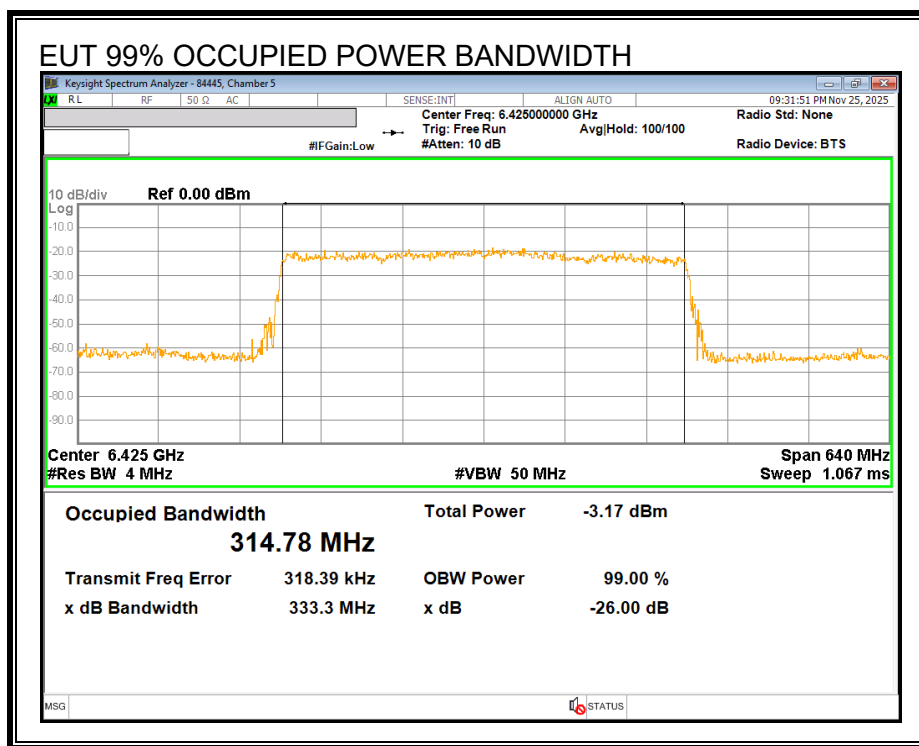


Upper Edge Incumbent Signal f_{c3} :



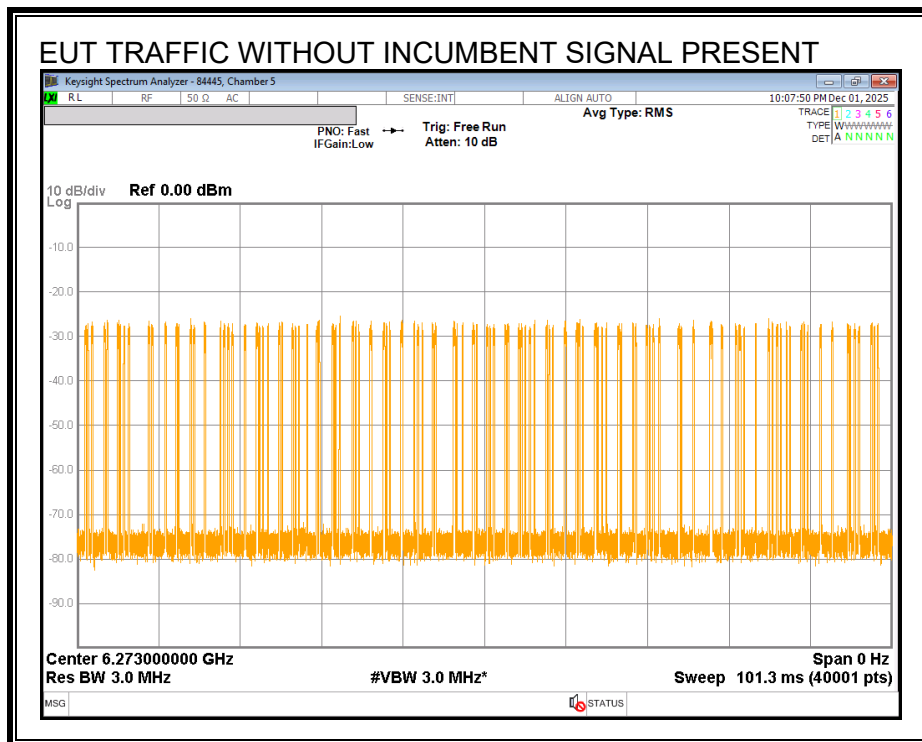
8.5.2. EUT TRANSMISSION PLOTS

EUT 99% OCCUPIED POWER BANDWIDTH

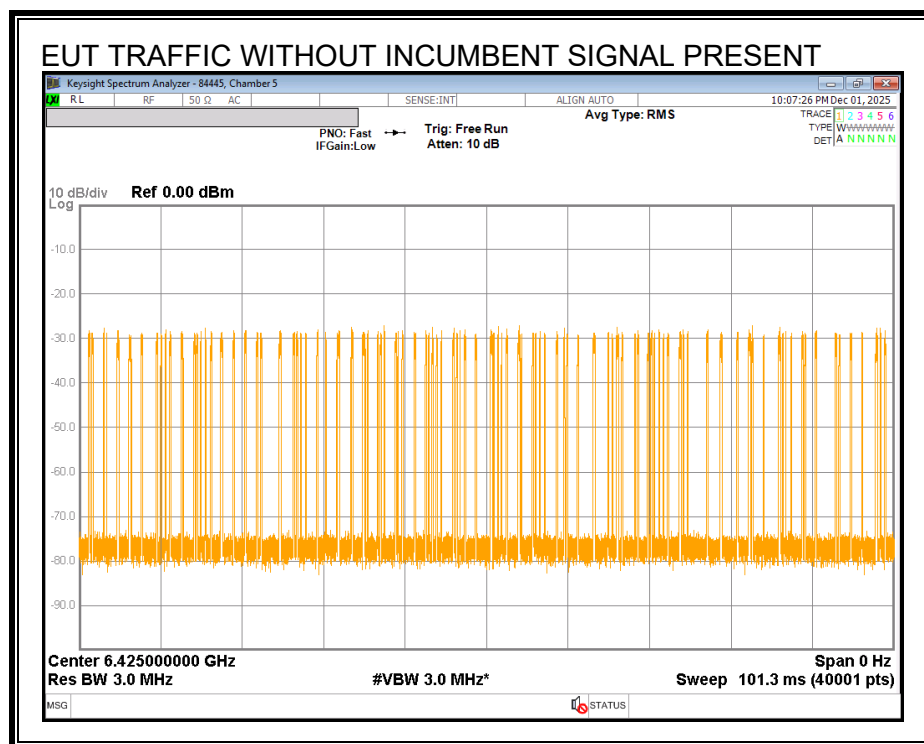


TRAFFIC WITHOUT THE INCUMBENT SIGNAL PRESENT

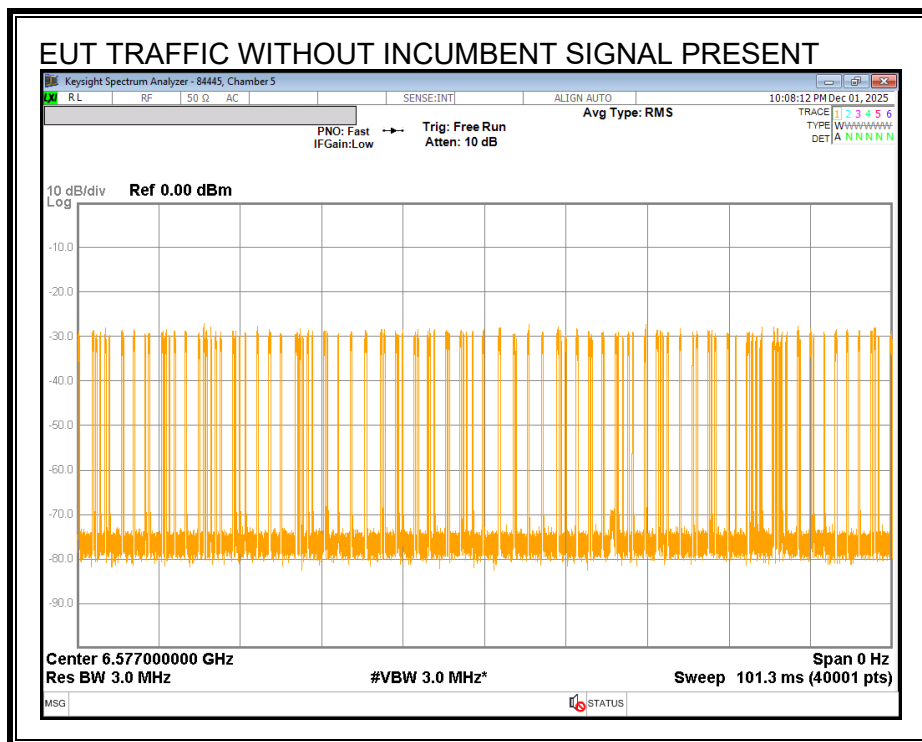
Lower Edge f_{c2} :



Center Frequency f_{c1} :



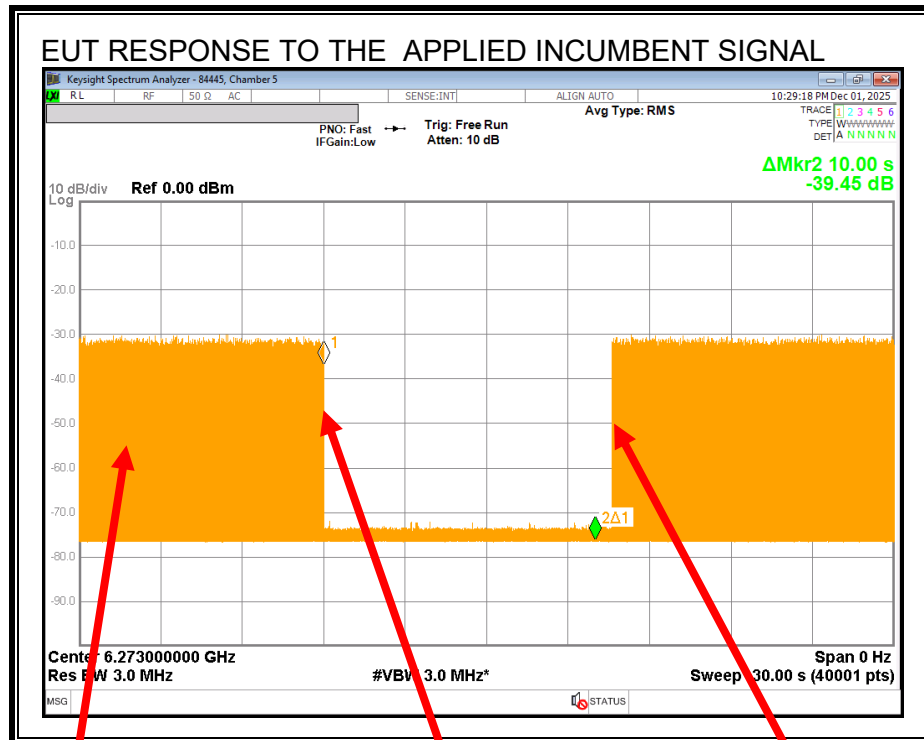
Upper Edge f_{c3}:



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} :



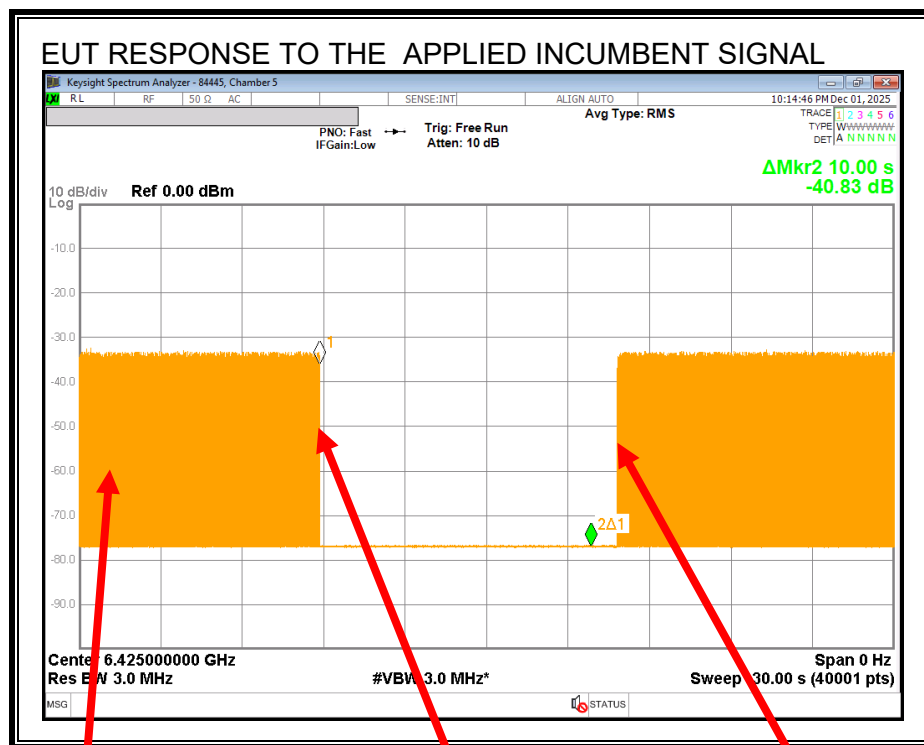
Normal Traffic

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} :



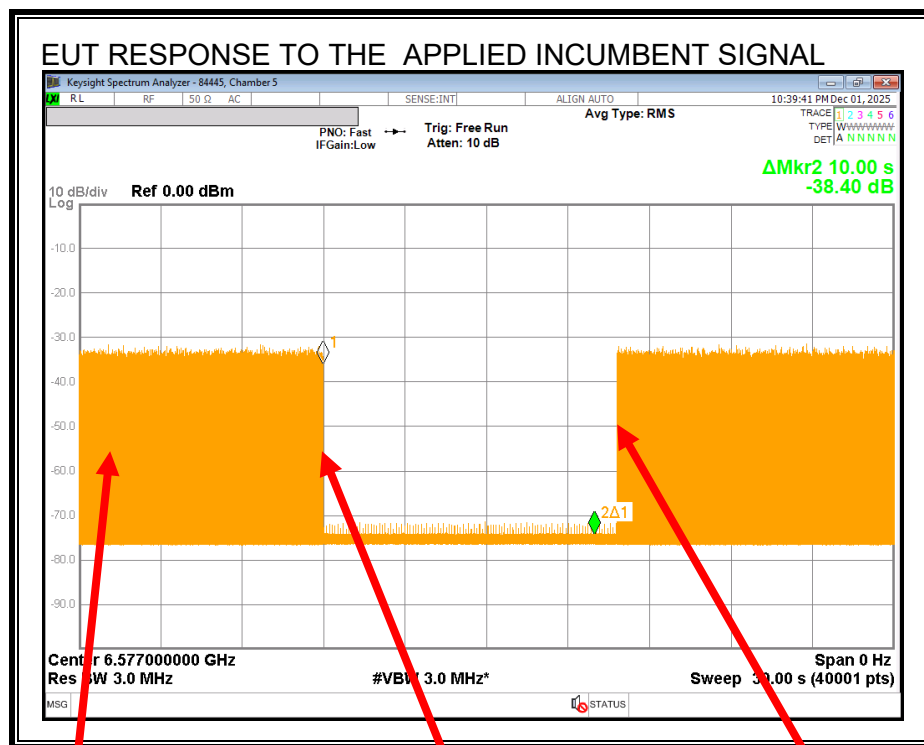
Normal Traffic

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

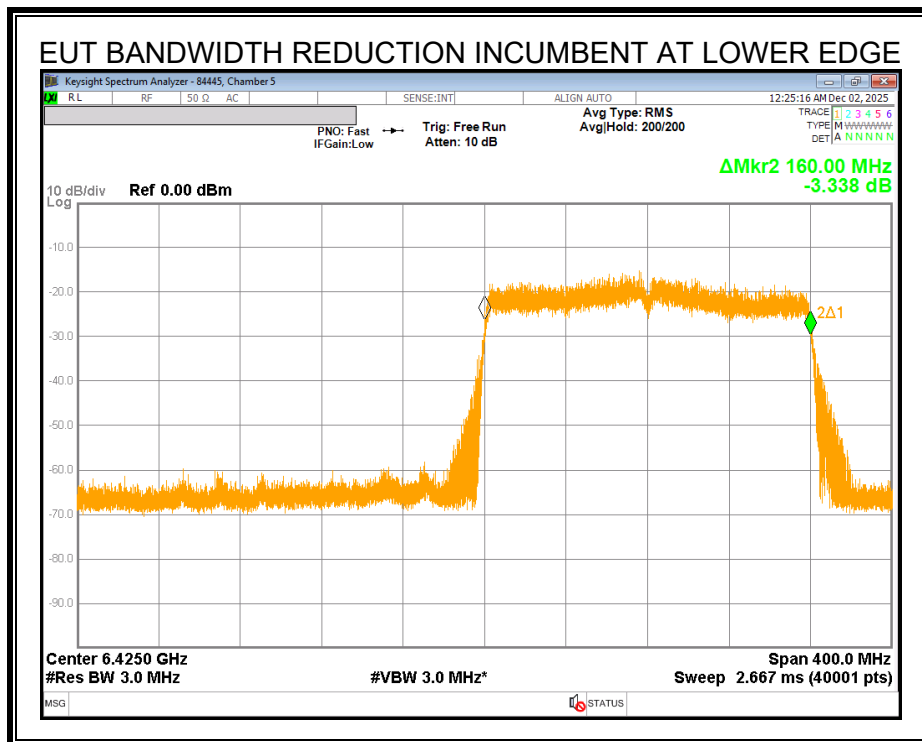
Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

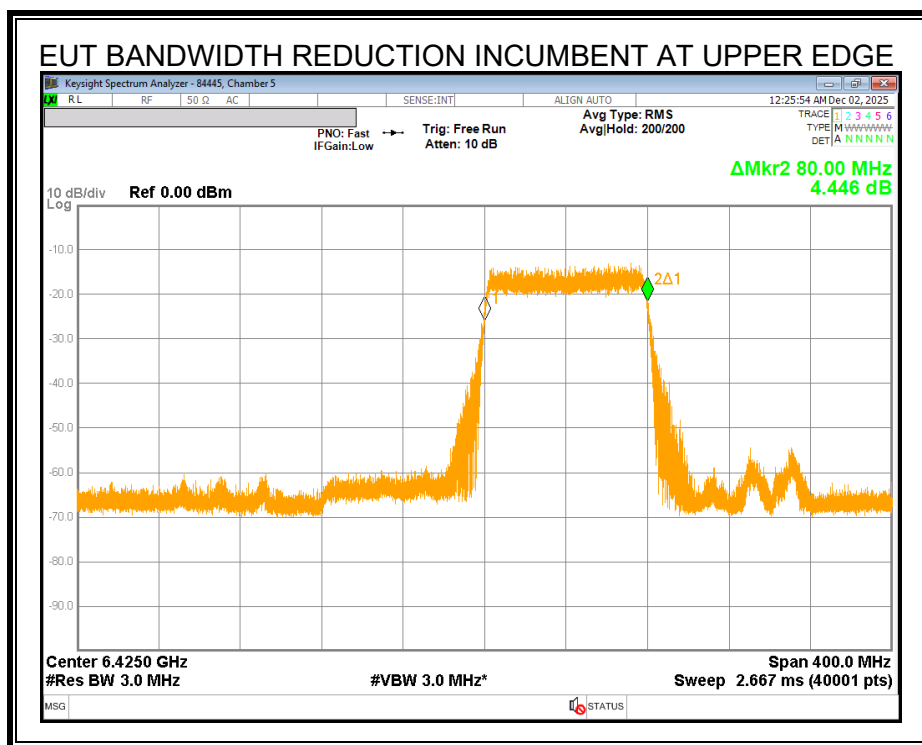
Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

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 160 MHz bandwidth.



With the Incumbent Signal set to the upper edge f_{c3} the EUT continues to operate at a reduced 80 MHz bandwidth.

8.5.3. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2025-12-01
Tested By	84445
Test Location	Chamber 5

EUT Channel Center Frequency, f_{c1} (MHz)	6425
EUT Nominal Channel Bandwidth (MHz)	320
99% Occupied Bandwidth of the EUT (MHz)	314.78
EUT 99% OBW Lower Edge, F_L (MHz)	6267.61
EUT 99% OBW Upper Edge, F_H (MHz)	6582.39
99% Occupied Bandwidth of the Incumbent Signal (MHz)	10.004
Test Frequency of Incumbent Signal (f_{c2}) Near EUT F_L (MHz)	6273
Test Frequency of Incumbent Signal at f_{c1} (MHz)	6425
Test Frequency of Incumbent Signal (f_{c3}) Near EUT F_H (MHz)	6577
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	-6.03
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-68.03
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} at Test Fixture (dBm)	-52.31
Test Fixture Cable Loss	28.71
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} (dBm)	-81.02
Margin (dBm)	-12.99
Result (PASS / FAIL)	PASS
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} at Test Fixture (dBm)	-49.72
Test Fixture Cable Loss	28.96
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} (dBm)	-78.68
Margin (dBm)	-10.65
Result (PASS / FAIL)	PASS
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} at Test Fixture (dBm)	-50.96
Test Fixture Cable Loss	28.59
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} (dBm)	-79.55
Margin (dBm)	-11.52
Result (PASS / FAIL)	PASS

INCUMBENT SIGNAL DETECTION CERTAINTY RATE

Test Date	2025-12-01
Tested By	84445
Test Location	Chamber 5

Trial	AWGN Detected (Yes / No)		
	Incumbent AWGN at f_{c2}	Incumbent AWGN at f_{c1}	Incumbent AWGN at f_{c3}
1	Yes	Yes	Yes
2	Yes	Yes	Yes
3	Yes	Yes	Yes
4	Yes	Yes	No
5	Yes	Yes	Yes
6	Yes	Yes	Yes
7	Yes	Yes	Yes
8	Yes	Yes	Yes
9	Yes	Yes	Yes
10	Yes	Yes	Yes
Test Result	PASS	PASS	PASS

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

Tx OPERATIONAL STATUS TEST RESULTS

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

Test Date	2025-12-01
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
-52.31	28.71	-81.02	-6.03	-74.99	-62	Ceased
-54.32	28.71	-83.03	-6.03	-77.00	-62	Minimal
-57.32	28.71	-86.03	-6.03	-80.00	-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
-49.72	28.96	-78.68	-6.03	-72.65	-62	Ceased
-52.70	28.96	-81.66	-6.03	-75.63	-62	Minimal
-54.68	28.96	-83.64	-6.03	-77.61	-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
-50.96	28.59	-79.55	-6.03	-73.52	-62	Ceased
-51.97	28.59	-80.56	-6.03	-74.53	-62	Minimal
-55.99	28.59	-84.58	-6.03	-78.55	-62	Normal

8.6. U-NII 7 LOW BANDWIDTH RESULTS

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

The lowest supported channel bandwidth is 20 MHz which meets the criteria for test condition 2 to be performed.

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

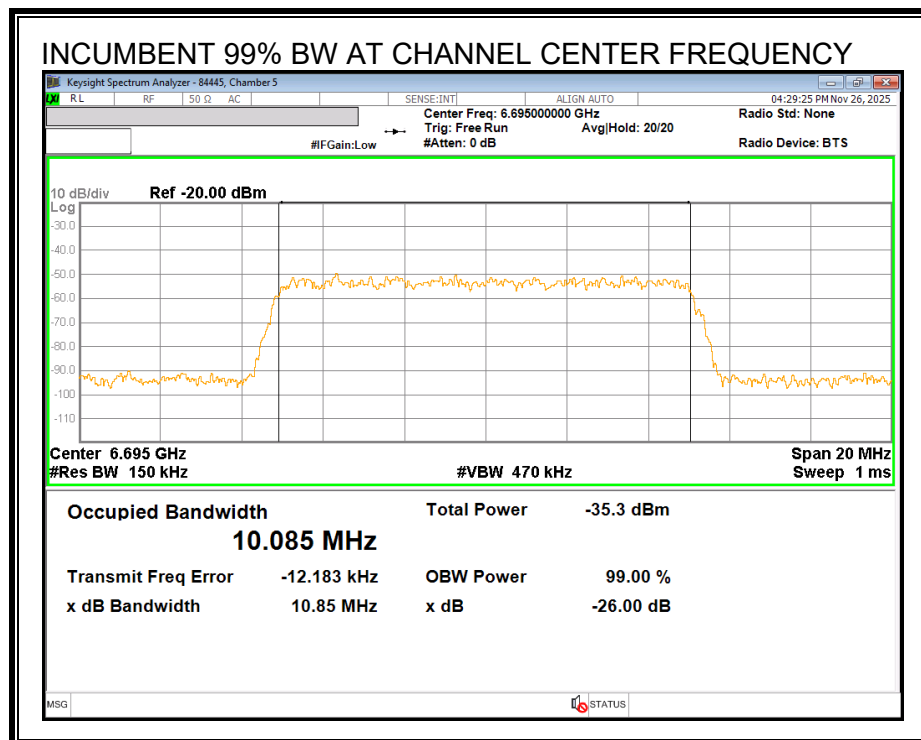
TEST CONDITION 2 CRITERIA

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

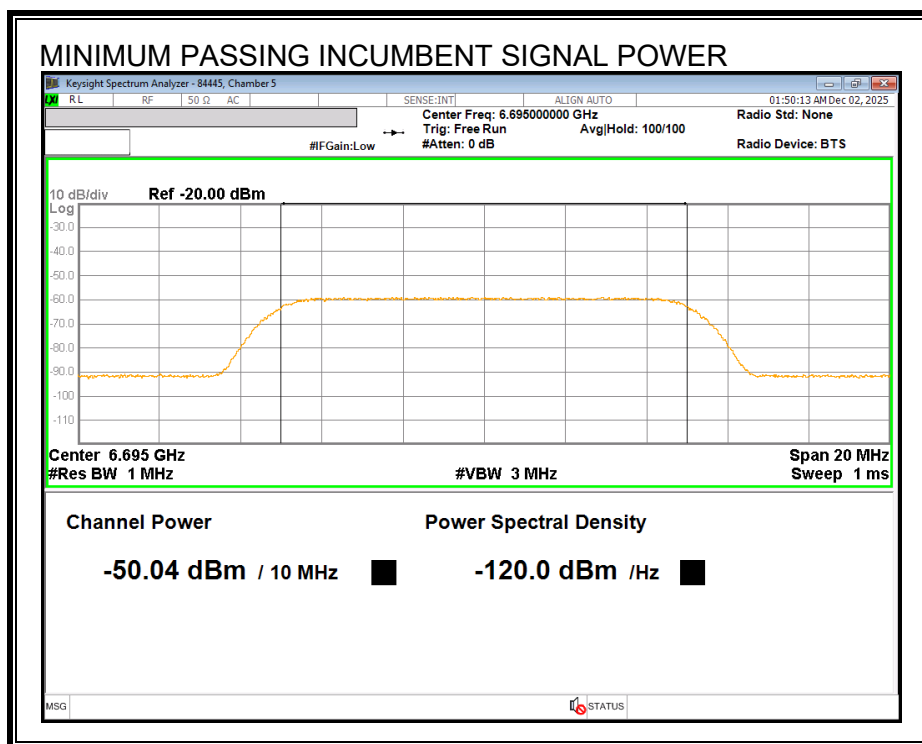
8.6.1. INCUMBENT SIGNAL PLOTS

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 SIGNAL 99% OCCUPIED POWER BANDWIDTH

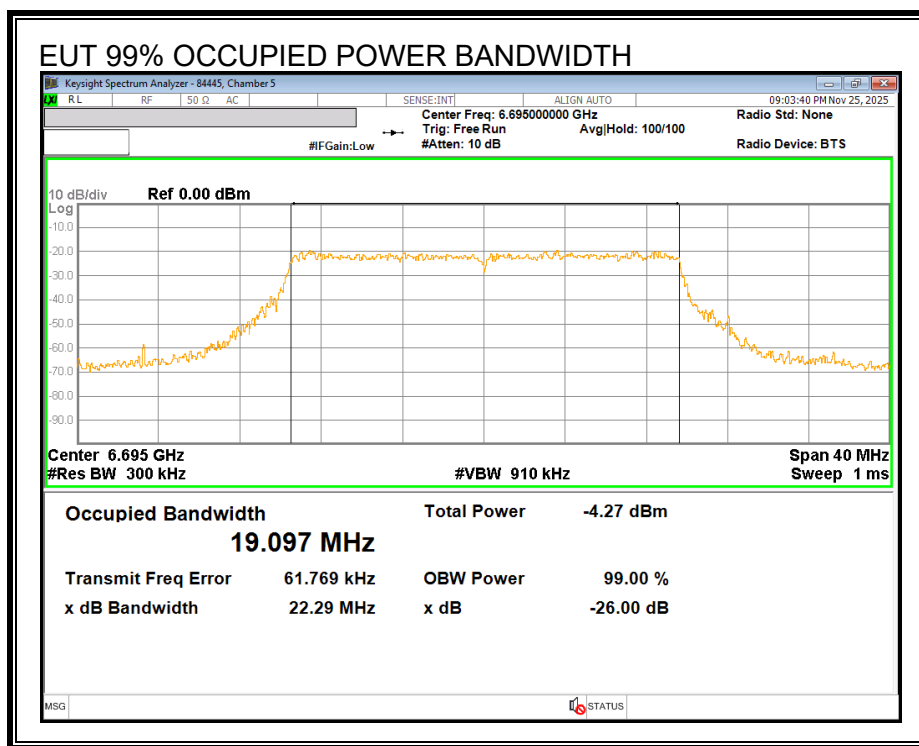


MINIMUM PASSING INCUMBENT SIGNAL POWER

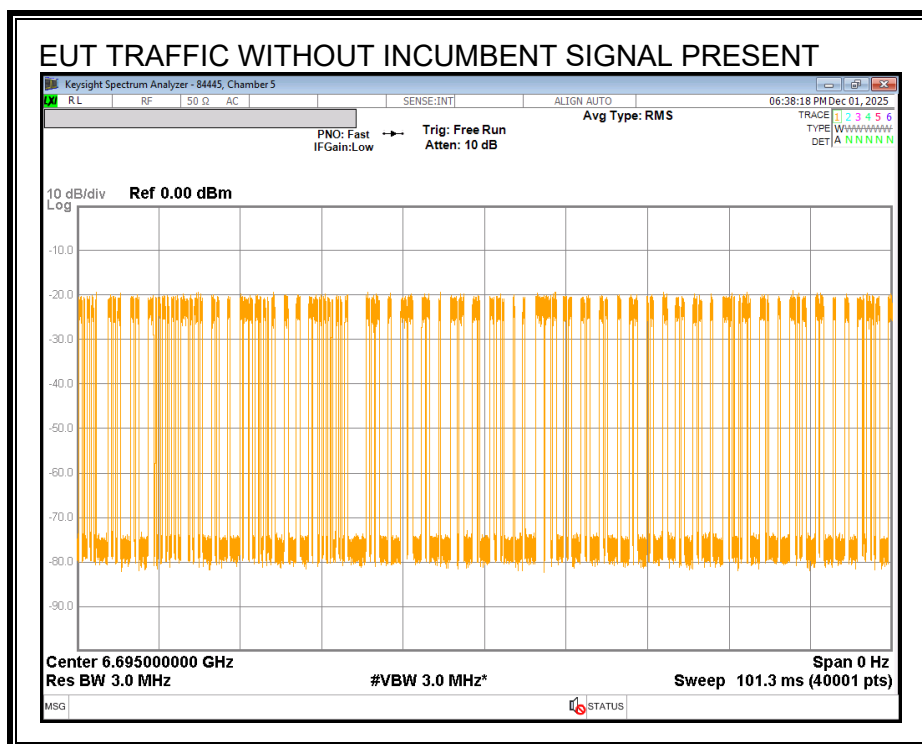


8.6.2. EUT TRANSMISSION PLOTS

EUT 99% OCCUPIED POWER BANDWIDTH

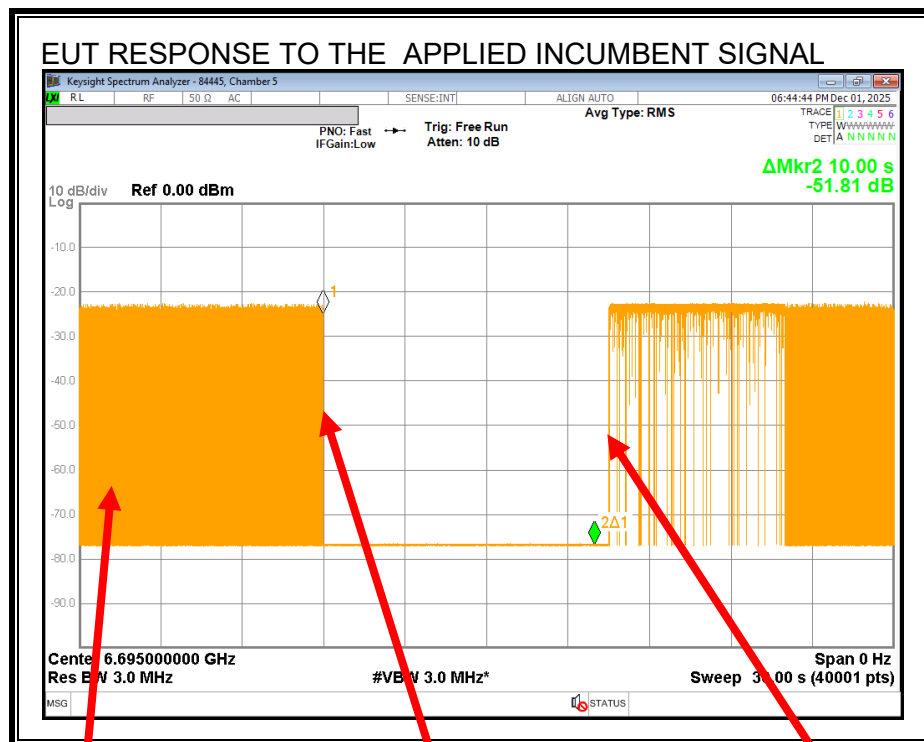


TRAFFIC WITHOUT THE INCUMBENT SIGNAL PRESENT



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.

8.6.3. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2025-12-01
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)	19.097
EUT 99% OBW Lower Edge, F_L (MHz)	6685.45
EUT 99% OBW Upper Edge, F_H (MHz)	6704.55
Test Frequency of Incumbent Signal (MHz)	6695
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	-5.51
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-67.51
Lowest Passing Measured Incumbent Signal Amplitude at Test Fixture(dBm)	-50.04
Test Fixture Cable Loss	29.28
Lowest Passing Measured Incumbent Signal Amplitude (dBm)	-79.32
Margin (dBm)	-11.81
Result (PASS / FAIL)	PASS

INCUMBENT SIGNAL DETECTION CERTAINTY RATE

Test Date	2025-12-01
Tested By	84445
Test Location	Chamber 5

AWGN Detected (Yes / No)	
Trial	Incumbent AWGN at f_{c1}
1	Yes
2	No
3	Yes
4	Yes
5	Yes
6	Yes
7	Yes
8	Yes
9	Yes
10	Yes
Test Result	PASS

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

Tx OPERATIONAL STATUS TEST RESULTS

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

Test Date	2025-12-01
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
-50.04	29.28	-79.32	-5.51	-73.81	-62	Ceased
-53.07	29.28	-82.35	-5.51	-76.84	-62	Minimal
-55.04	29.28	-84.32	-5.51	-78.81	-62	Normal

8.7. U-NII 7 HIGH BANDWIDTH RESULTS

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

The highest supported channel bandwidth is 320 MHz which meets the criteria for test condition 4 to be performed.

All tests were performed with the EUT set to a channel center frequency of 6745 MHz.

TEST CONDITION 4 CRITERIA

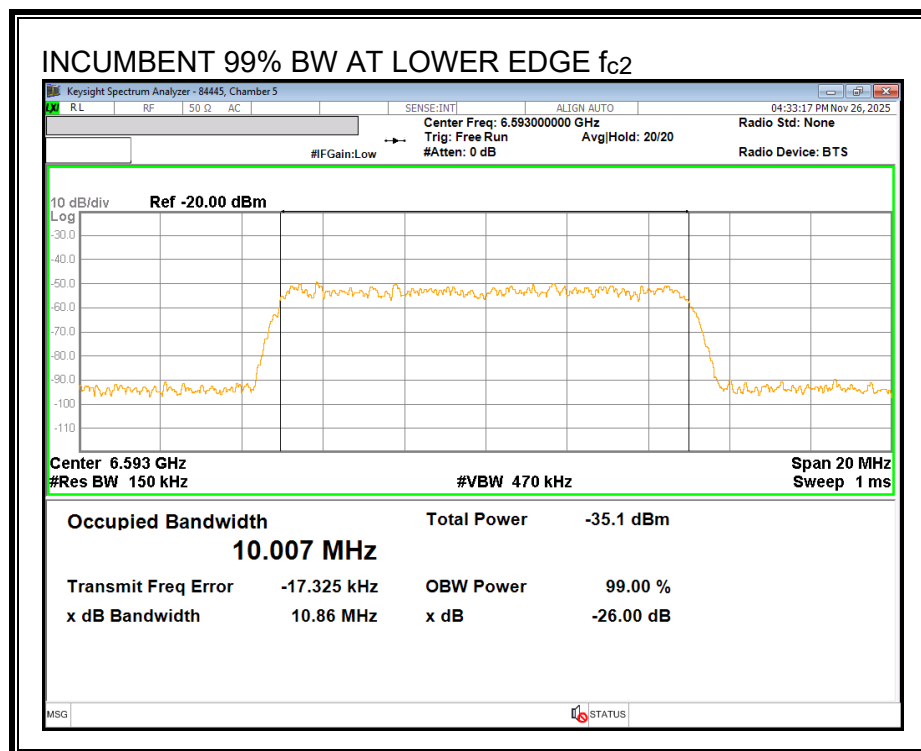
$$99\% BW_{EUT} > 4 \times 99\% BW_{INC}$$

8.7.1. INCUMBENT SIGNAL PLOTS

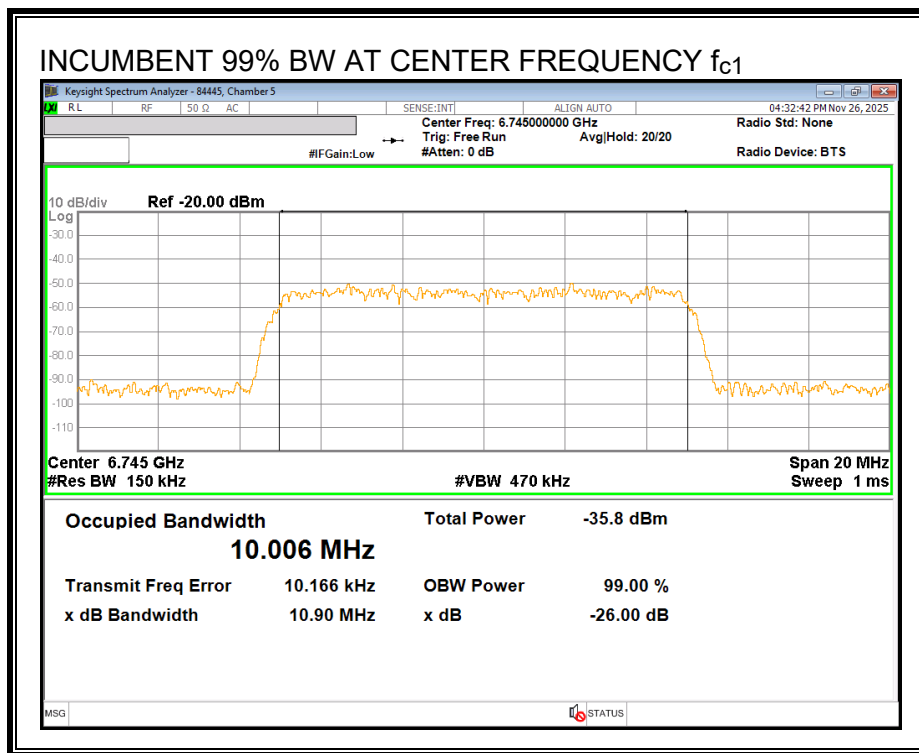
All tests were performed with the Incumbent Signal frequency set to the test channel center frequency and a nominal 99% Occupied Power Bandwidth of 10 MHz.

INCUMBENT SIGNAL 99% OCCUPIED POWER BANDWIDTH

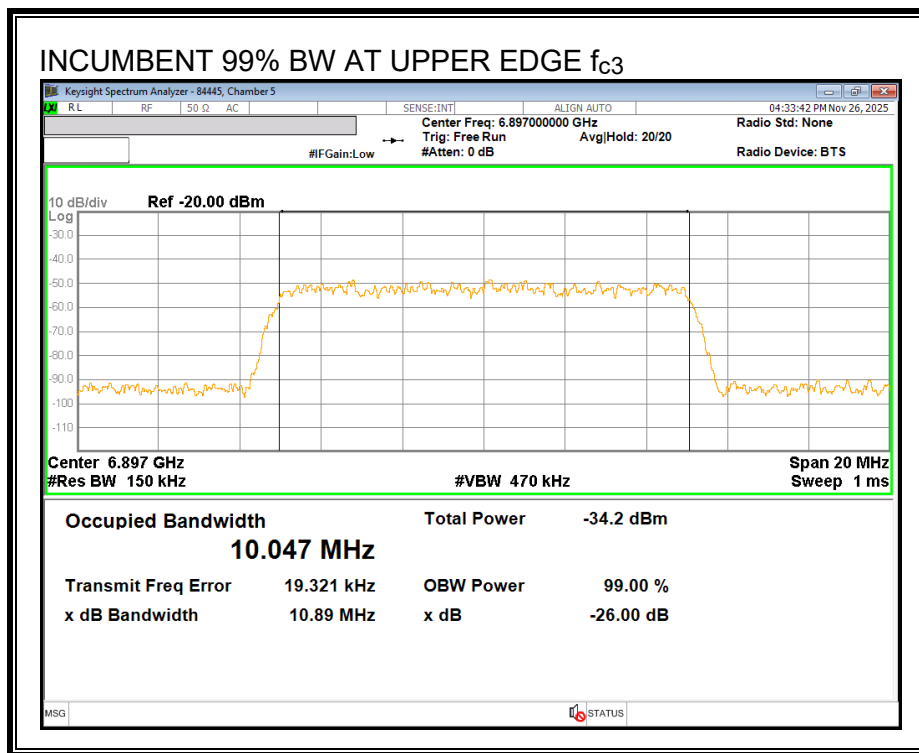
Lower Edge Incumbent Signal f_{c2} :



Center Frequency Incumbent Signal f_{c1} :

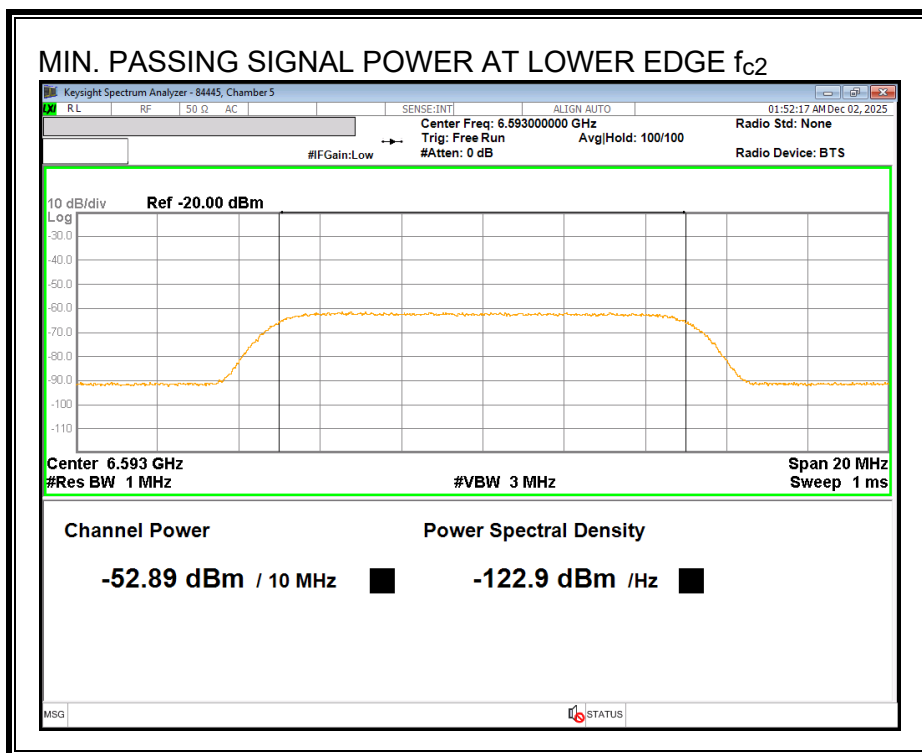


Upper Edge Incumbent Signal f_{c3} :

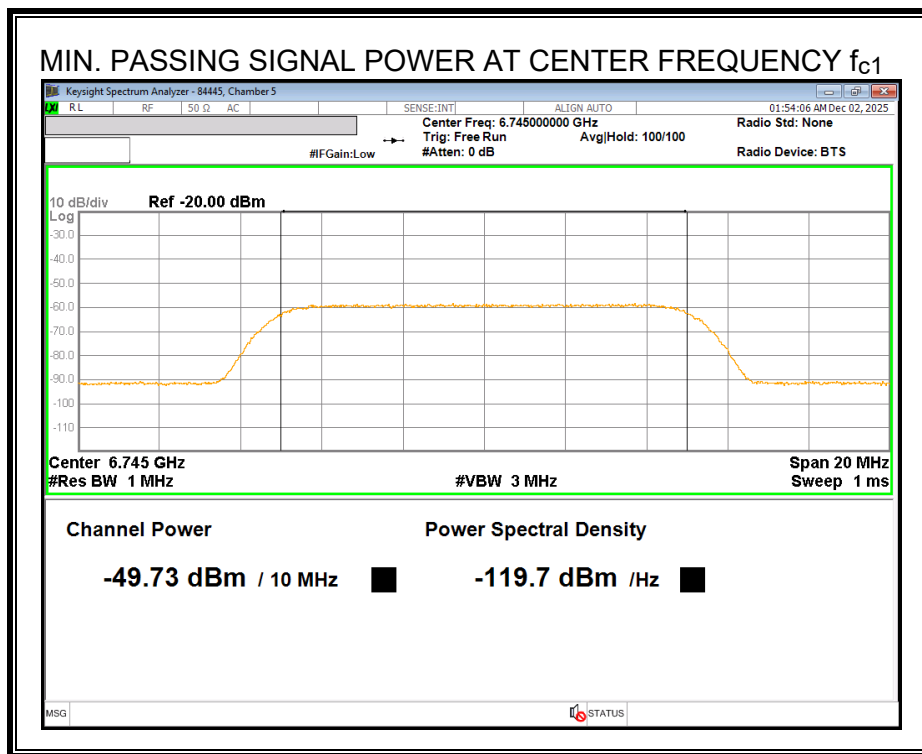


MINIMUM PASSING INCUMBENT SIGNAL POWER

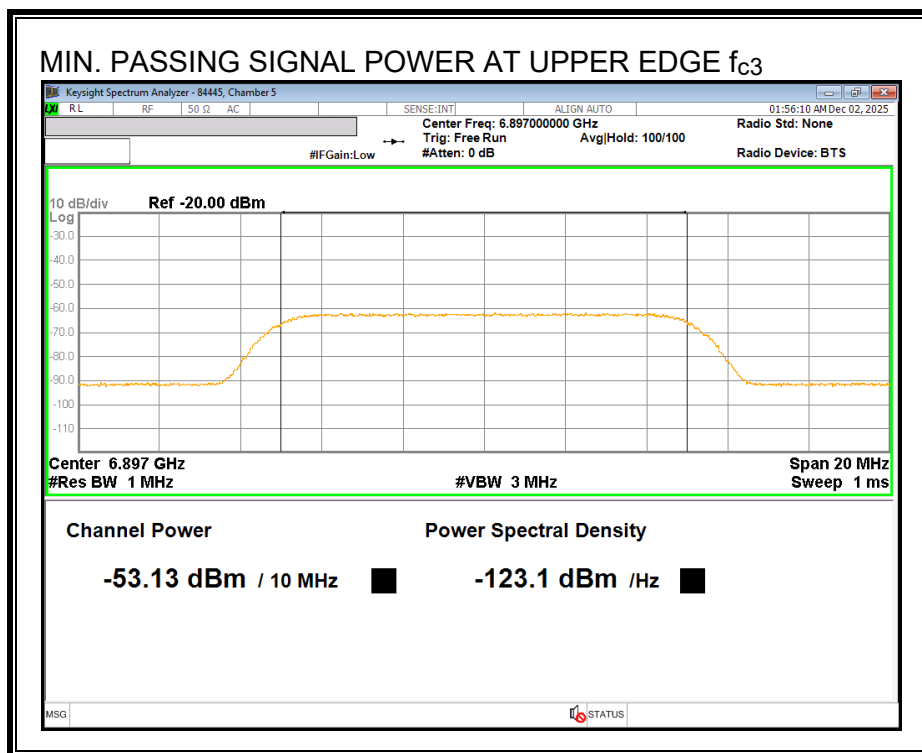
Lower Edge Incumbent Signal f_{c2} :



Center Frequency Incumbent Signal f_{c1} :

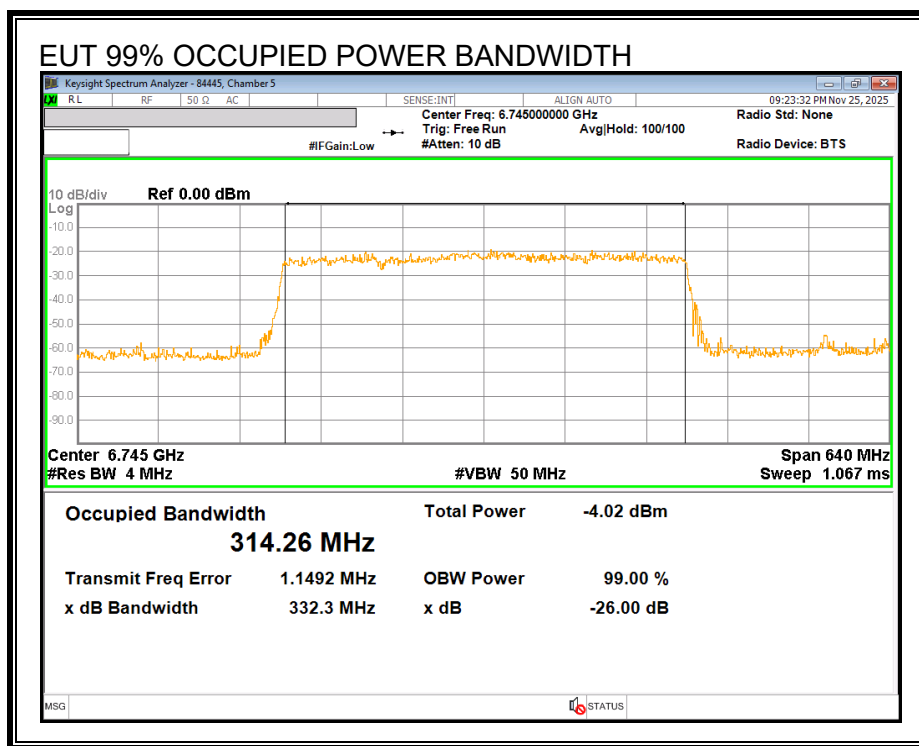


Upper Edge Incumbent Signal f_{c3} :



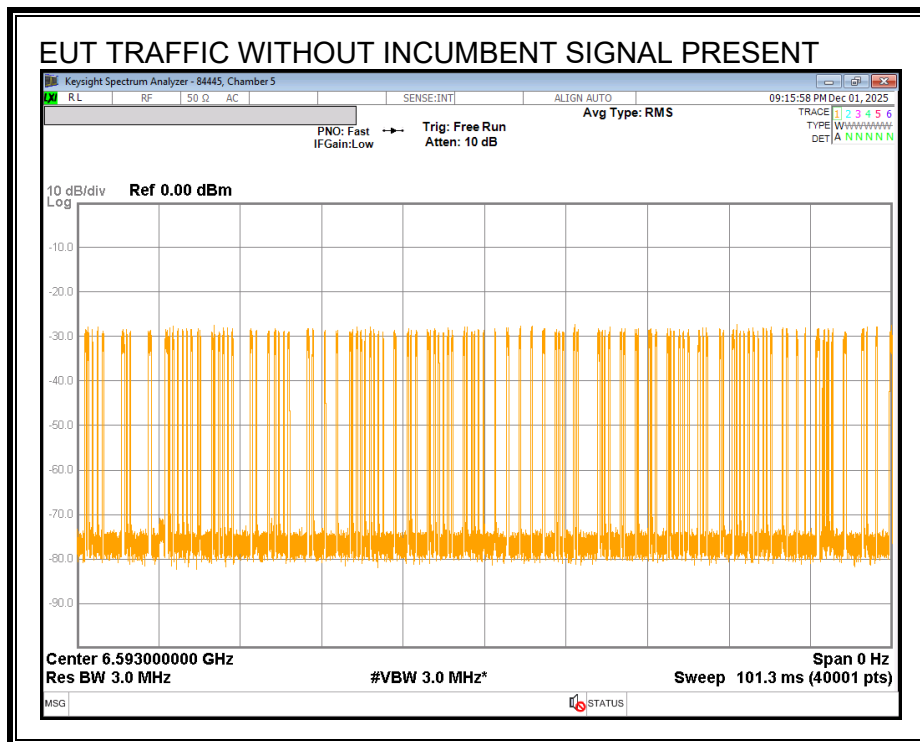
8.7.2. EUT TRANSMISSION PLOTS

EUT 99% OCCUPIED POWER BANDWIDTH

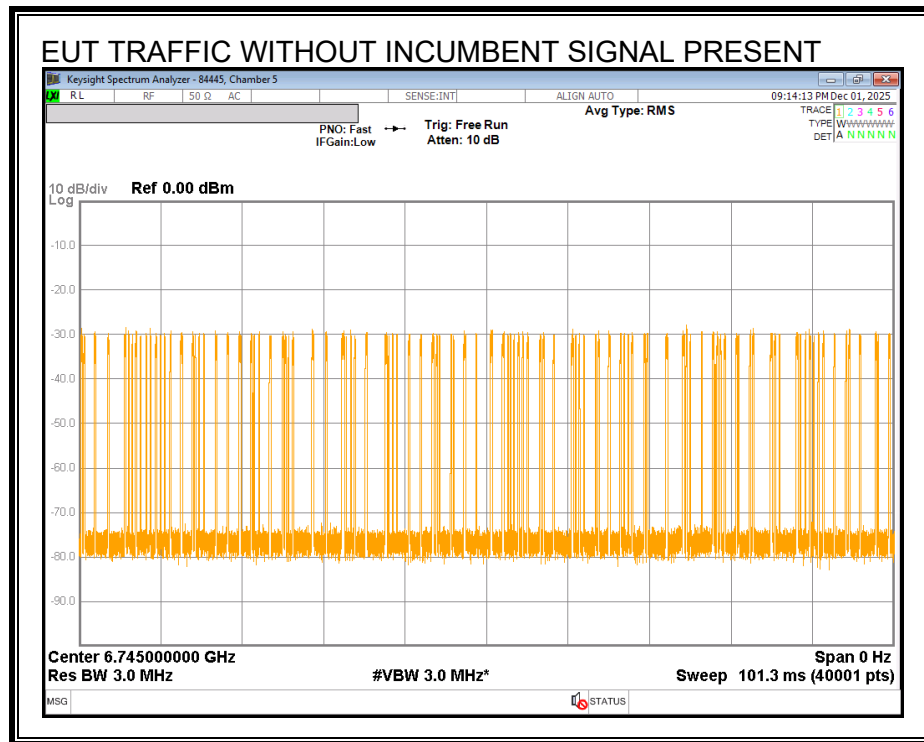


TRAFFIC WITHOUT THE INCUMBENT SIGNAL PRESENT

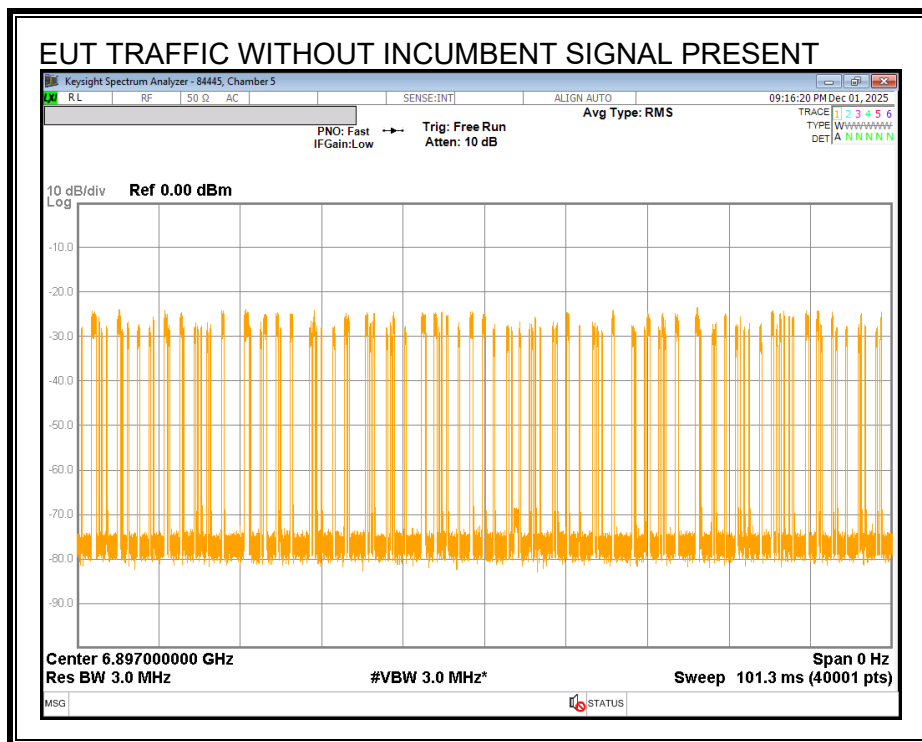
Lower Edge f_{c2} :



Center Frequency f_{c1} :



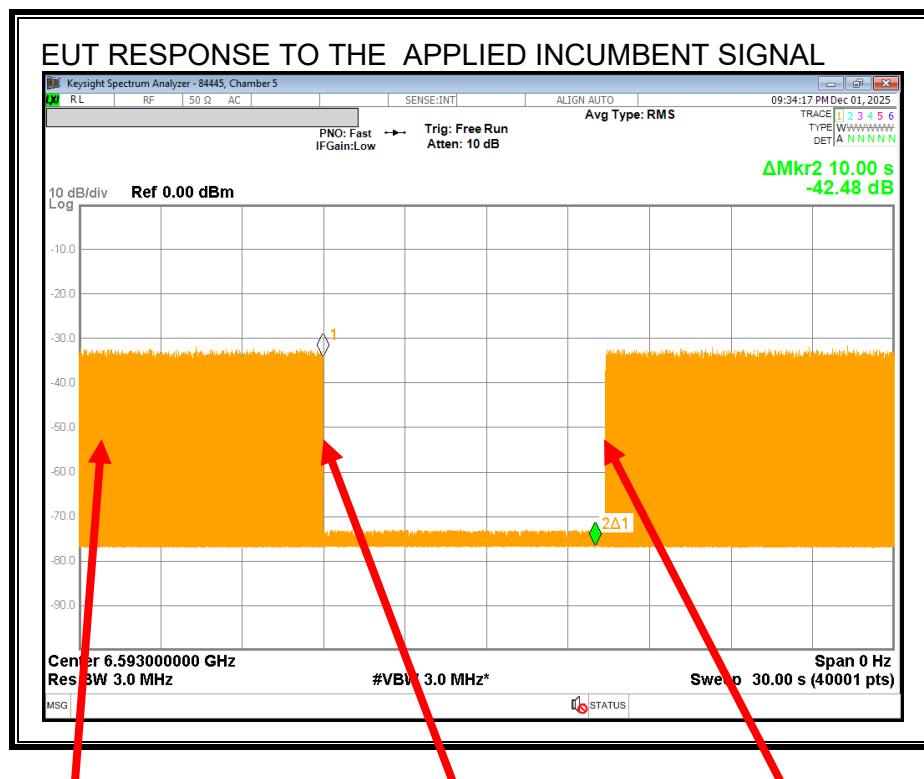
Upper Edge f_{c3} :



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} :



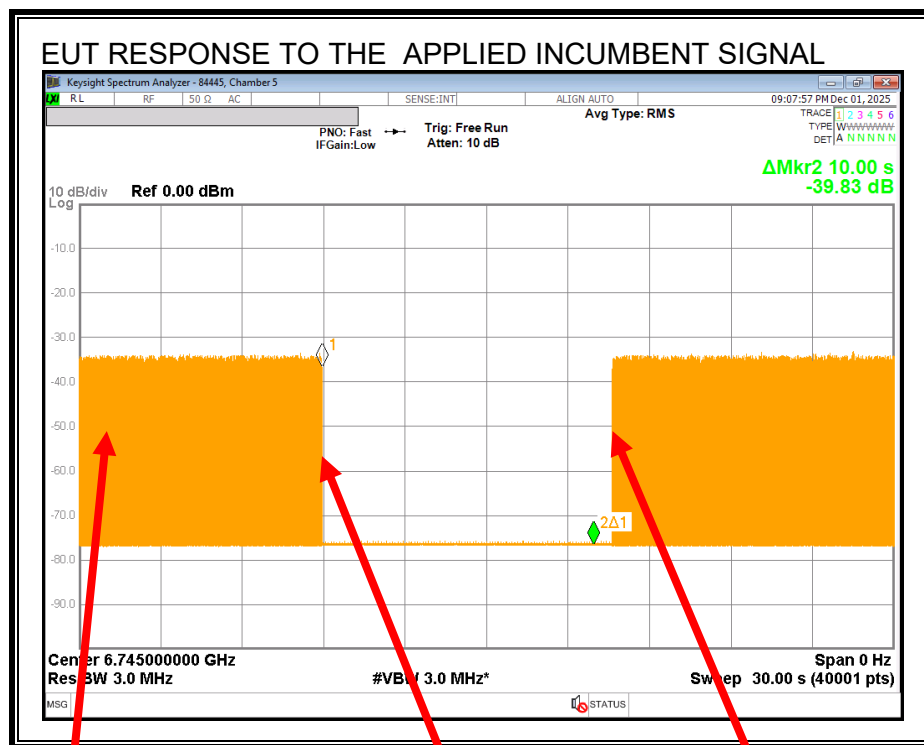
Normal Traffic

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} :



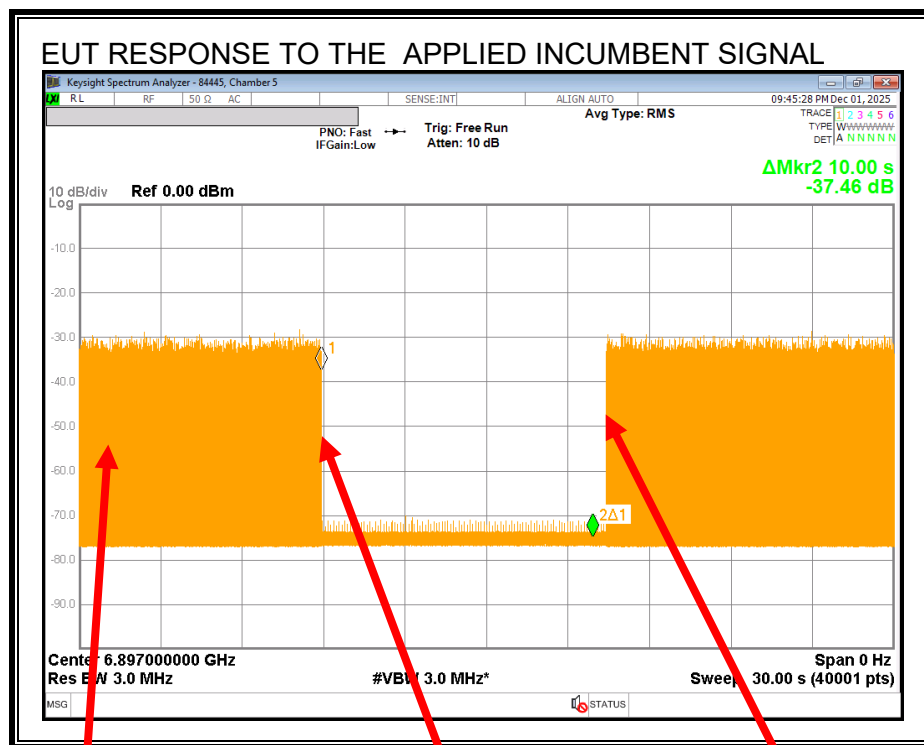
Normal Traffic

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

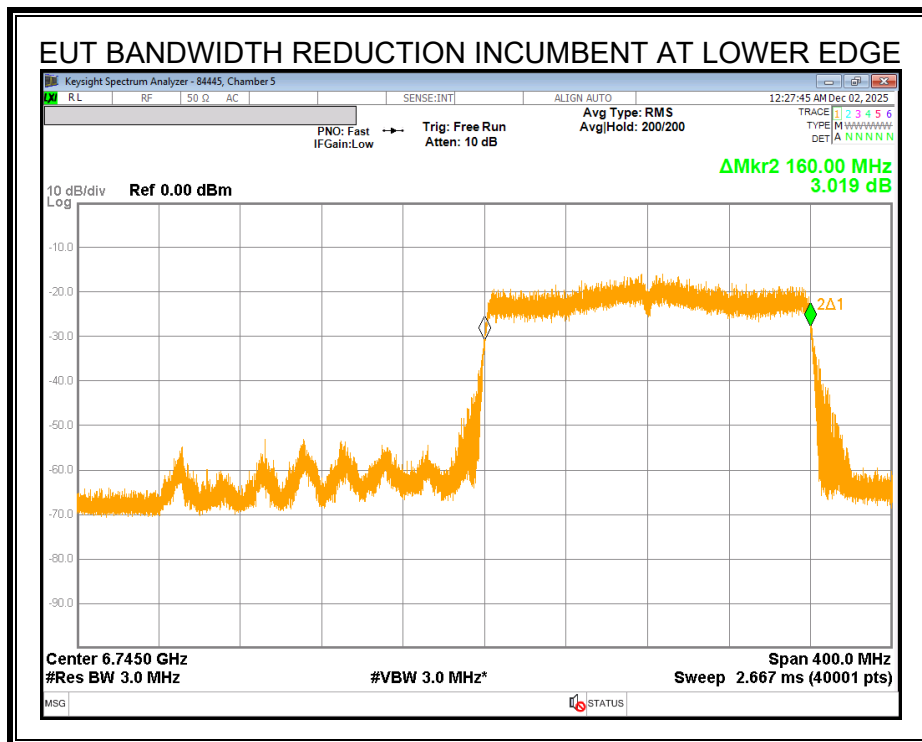
Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

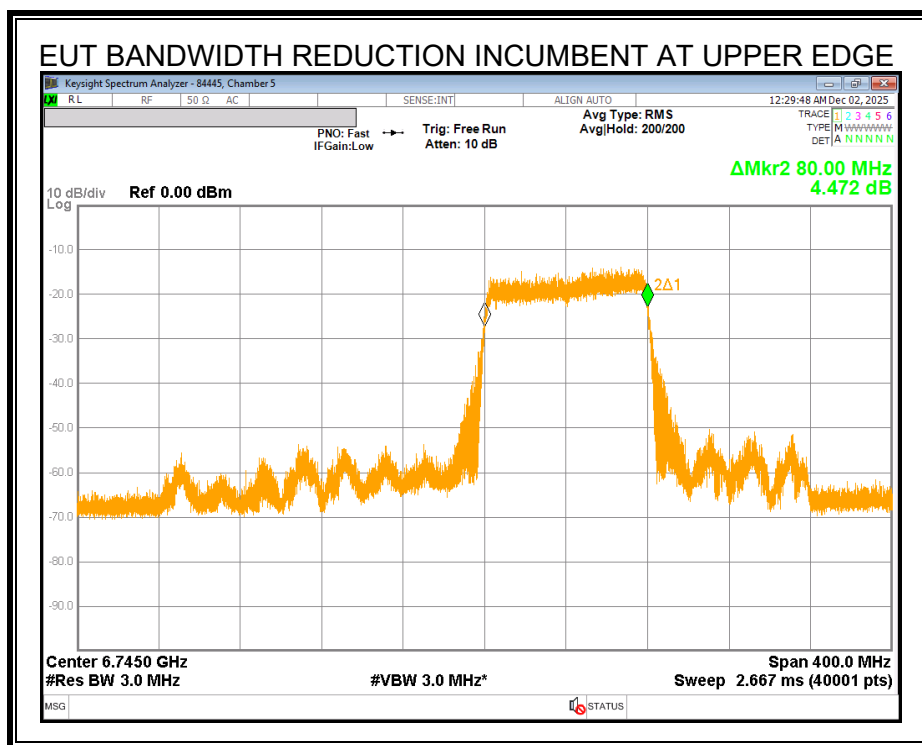
Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

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 160 MHz bandwidth.



With the Incumbent Signal set to the upper edge f_{c3} the EUT continues to operate at a reduced 80 MHz bandwidth.

8.7.3. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2025-12-01
Tested By	84445
Test Location	Chamber 5

EUT Channel Center Frequency, f_{c1} (MHz)	6745
EUT Nominal Channel Bandwidth (MHz)	320
99% Occupied Bandwidth of the EUT (MHz)	314.26
EUT 99% OBW Lower Edge, F_L (MHz)	6587.87
EUT 99% OBW Upper Edge, F_H (MHz)	6902.13
99% Occupied Bandwidth of the Incumbent Signal (MHz)	10.006
Test Frequency of Incumbent Signal (f_{c2}) Near EUT F_L (MHz)	6593
Test Frequency of Incumbent Signal at f_{c1} (MHz)	6745
Test Frequency of Incumbent Signal (f_{c3}) Near EUT F_H (MHz)	6897
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	-5.51
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-67.51
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} at Test Fixture (dBm)	-52.89
Test Fixture Cable Loss	28.51
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} (dBm)	-81.40
Margin (dBm)	-13.89
Result (PASS / FAIL)	PASS
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} at Test Fixture (dBm)	-49.73
Test Fixture Cable Loss	28.56
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} (dBm)	-78.29
Margin (dBm)	-10.78
Result (PASS / FAIL)	PASS
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} at Test Fixture (dBm)	-53.13
Test Fixture Cable Loss	28.51
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} (dBm)	-81.64
Margin (dBm)	-14.13
Result (PASS / FAIL)	PASS

INCUMBENT SIGNAL DETECTION CERTAINTY RATE

Test Date	2025-12-01
Tested By	84445
Test Location	Chamber 5

Trial	AWGN Detected (Yes / No)		
	Incumbent AWGN at f_{c2}	Incumbent AWGN at f_{c1}	Incumbent AWGN at f_{c3}
1	Yes	Yes	Yes
2	Yes	Yes	Yes
3	Yes	Yes	Yes
4	Yes	Yes	Yes
5	Yes	Yes	Yes
6	Yes	Yes	Yes
7	Yes	Yes	Yes
8	Yes	Yes	Yes
9	Yes	Yes	Yes
10	Yes	Yes	Yes
Test Result	PASS	PASS	PASS

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

Tx OPERATIONAL STATUS TEST RESULTS

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

Test Date	2025-12-01
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
-52.89	28.51	-81.40	-5.51	-75.89	-62	Ceased
-55.91	28.51	-84.42	-5.51	-78.91	-62	Minimal
-58.86	28.51	-87.37	-5.51	-81.86	-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
-49.73	28.56	-78.29	-5.51	-72.78	-62	Ceased
-53.72	28.56	-82.28	-5.51	-76.77	-62	Minimal
-57.70	28.56	-86.26	-5.51	-80.75	-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
-53.13	28.69	-81.82	-5.51	-76.31	-62	Ceased
-57.13	28.69	-85.82	-5.51	-80.31	-62	Minimal
-62.12	28.69	-90.81	-5.51	-85.30	-62	Normal

8.8. U-NII 8 LOW BANDWIDTH RESULTS

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

The lowest supported channel bandwidth is 20 MHz which meets the criteria for test condition 2 to be performed.

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

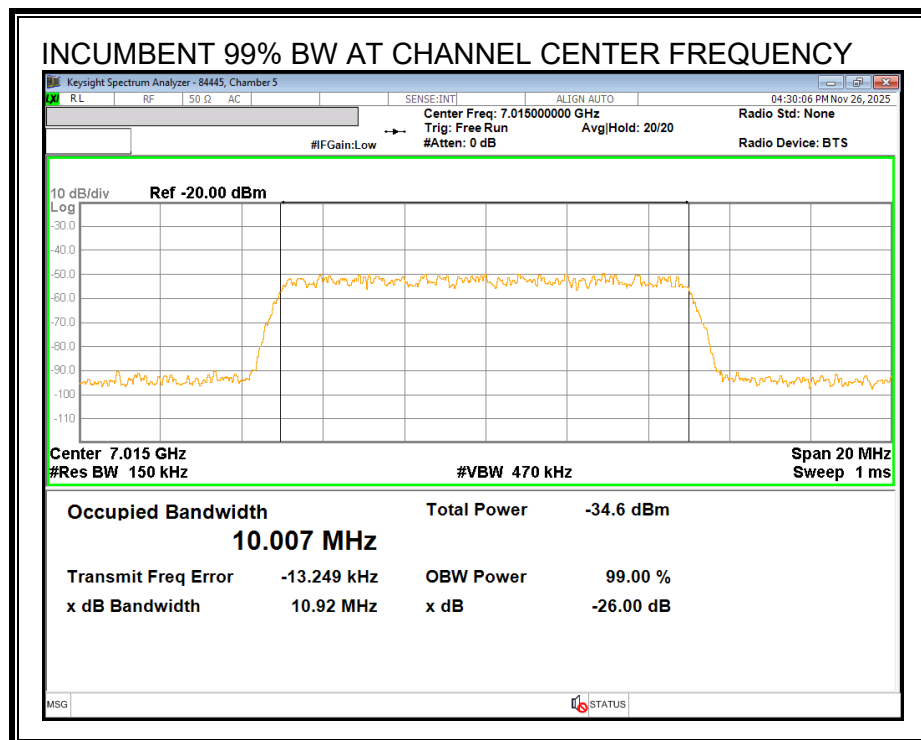
TEST CONDITION 2 CRITERIA

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

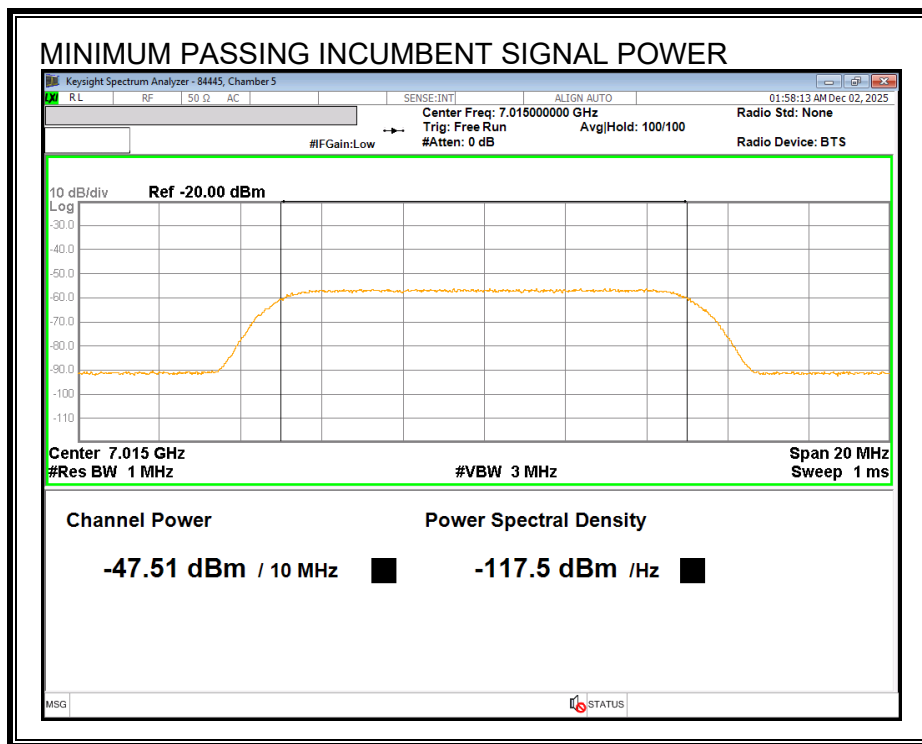
8.8.1. INCUMBENT SIGNAL PLOTS

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 SIGNAL 99% OCCUPIED POWER BANDWIDTH

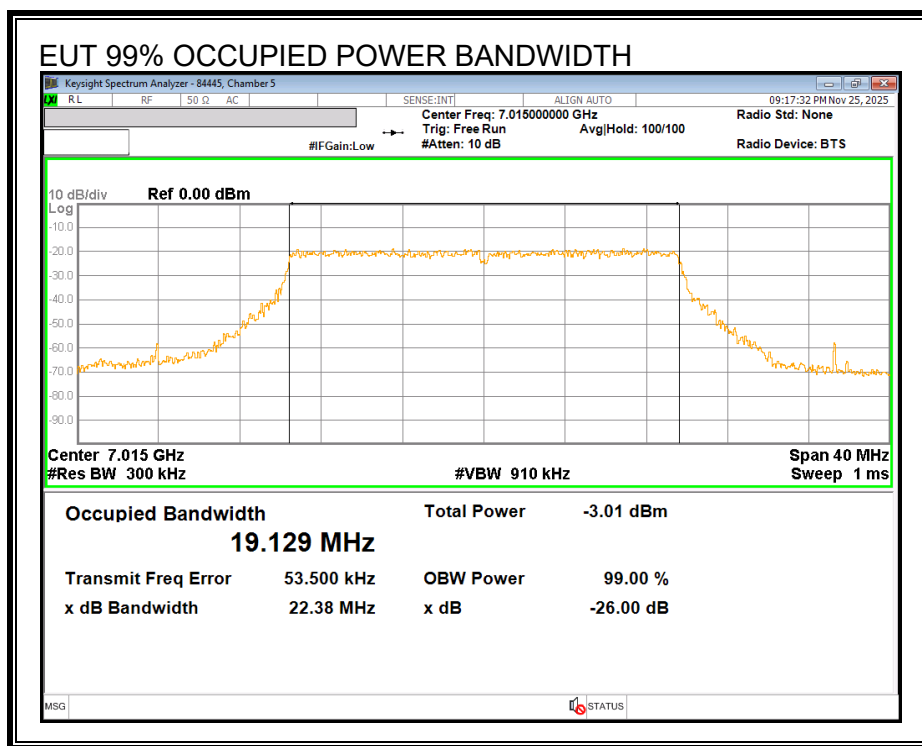


MINIMUM PASSING INCUMBENT SIGNAL POWER

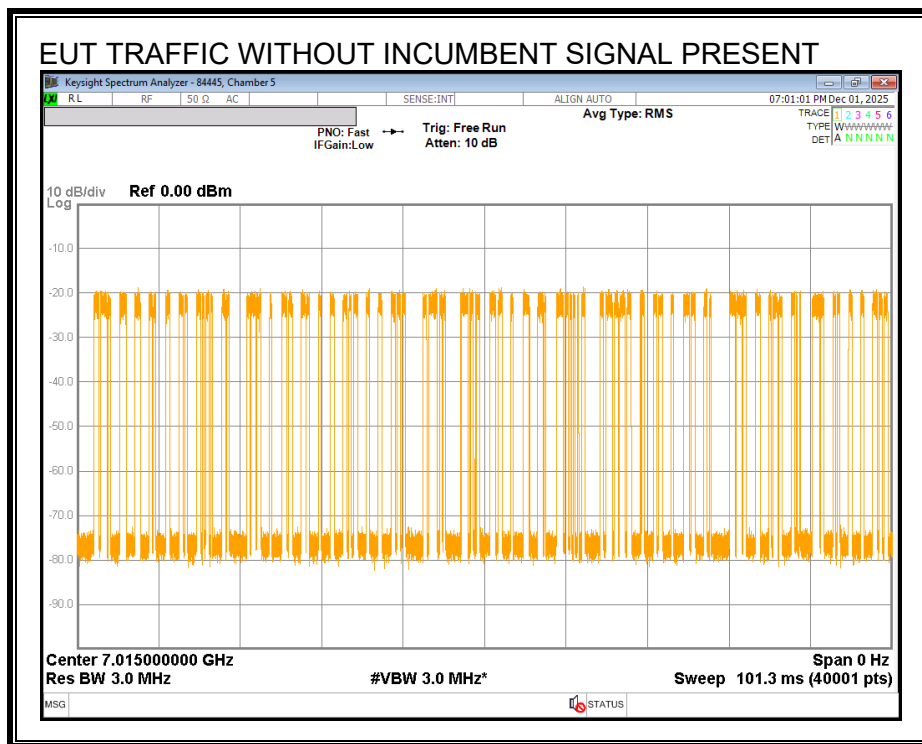


8.8.2. EUT TRANSMISSION PLOTS

EUT 99% OCCUPIED POWER BANDWIDTH

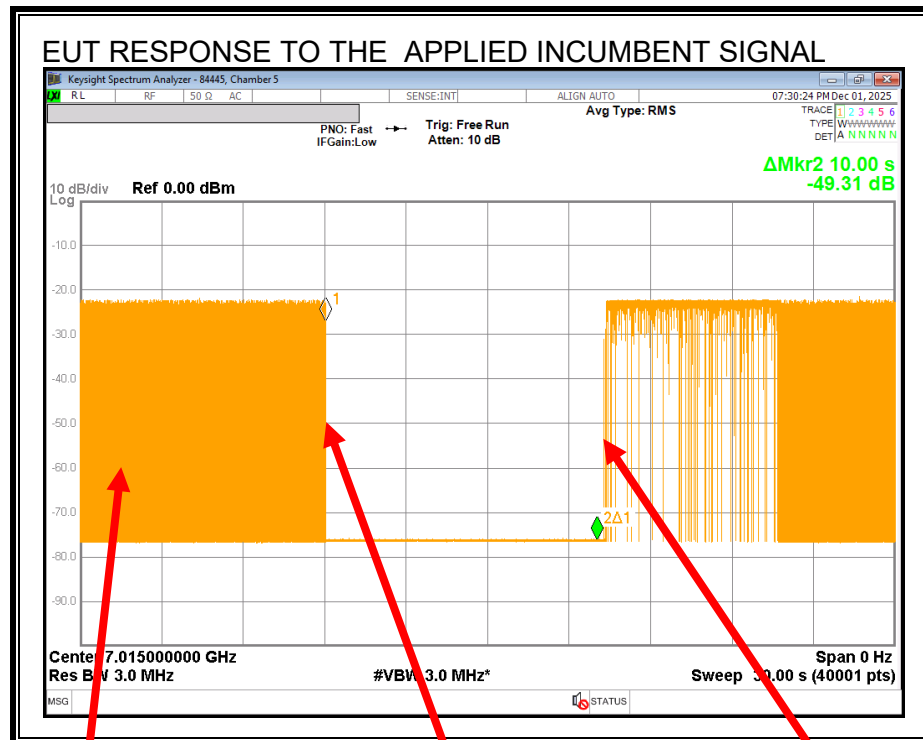


TRAFFIC WITHOUT THE INCUMBENT SIGNAL PRESENT



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.

8.8.3. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	2025-12-01
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)	19.129
EUT 99% OBW Lower Edge, F_L (MHz)	7005.44
EUT 99% OBW Upper Edge, F_H (MHz)	7024.56
Test Frequency of Incumbent Signal (MHz)	7015
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	-4.59
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-66.59
Lowest Passing Measured Incumbent Signal Amplitude at Test Fixture(dBm)	-47.51
Test Fixture Cable Loss	28.35
Lowest Passing Measured Incumbent Signal Amplitude (dBm)	-75.86
Margin (dBm)	-9.27
Result (PASS / FAIL)	PASS

INCUMBENT SIGNAL DETECTION CERTAINTY RATE

Test Date	2025-12-01
Tested By	84445
Test Location	Chamber 5

AWGN Detected (Yes / No)	
Trial	Incumbent AWGN at f_{c1}
1	Yes
2	Yes
3	Yes
4	Yes
5	No
6	Yes
7	Yes
8	Yes
9	Yes
10	Yes
Test Result	PASS

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

Tx OPERATIONAL STATUS TEST RESULTS

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

Test Date	2025-12-01
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
-47.51	28.35	-75.86	-4.59	-71.27	-62	Ceased
-49.54	28.35	-77.89	-4.59	-73.30	-62	Minimal
-52.51	28.35	-80.86	-4.59	-76.27	-62	Normal

8.9. U-NII 8 HIGH BANDWIDTH RESULTS

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

The highest supported channel bandwidth is 320 MHz which meets the criteria for test condition 4 to be performed.

All tests were performed with the EUT set to a channel center frequency of 6905 MHz.

TEST CONDITION 4 CRITERIA

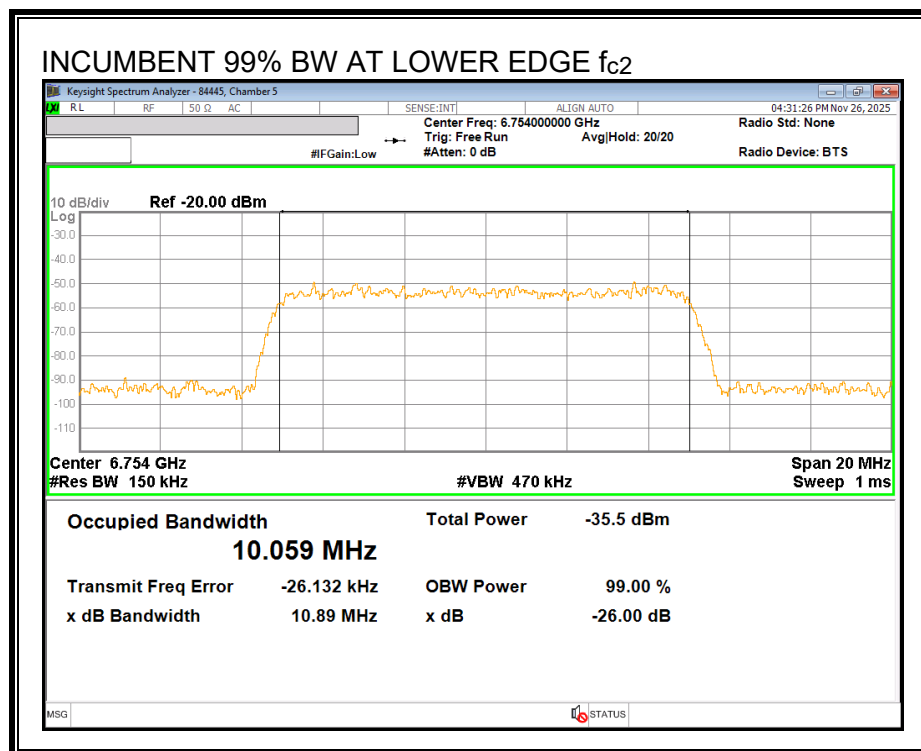
$$99\% BW_{EUT} > 4 \times 99\% BW_{INC}$$

8.9.1. INCUMBENT SIGNAL PLOTS

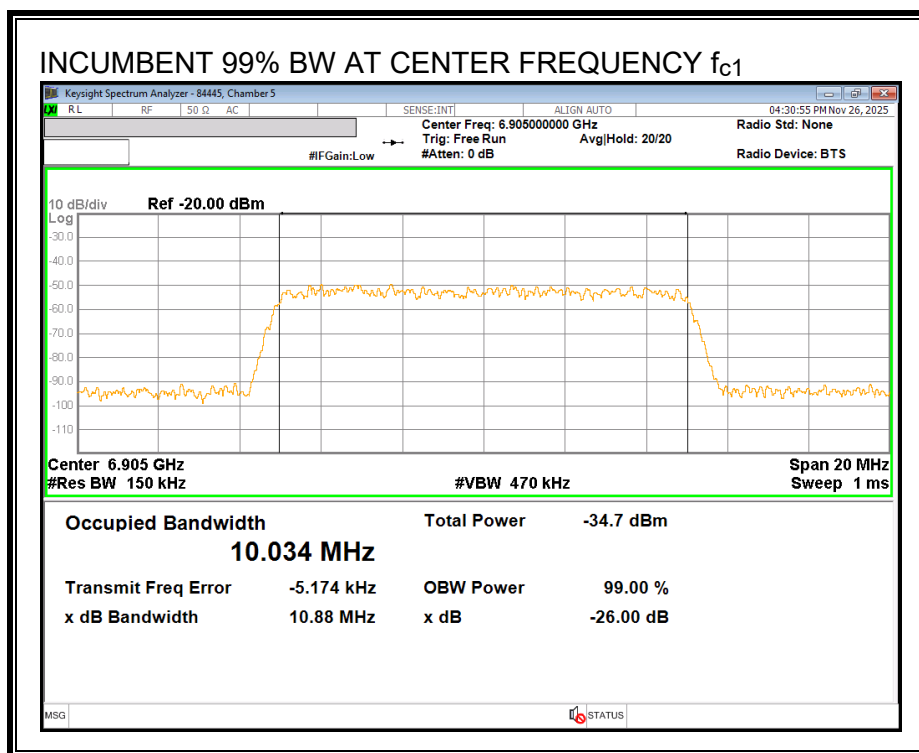
All tests were performed with the Incumbent Signal frequency set to the test channel center frequency and a nominal 99% Occupied Power Bandwidth of 10 MHz.

INCUMBENT SIGNAL 99% OCCUPIED POWER BANDWIDTH

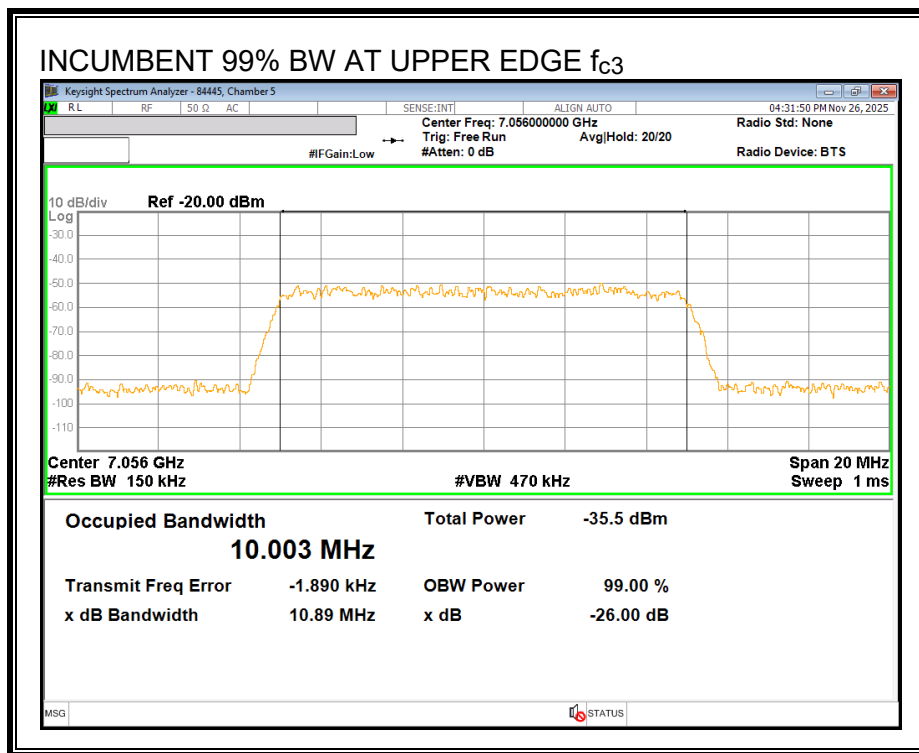
Lower Edge Incumbent Signal f_{c2} :



Center Frequency Incumbent Signal f_{c1} :

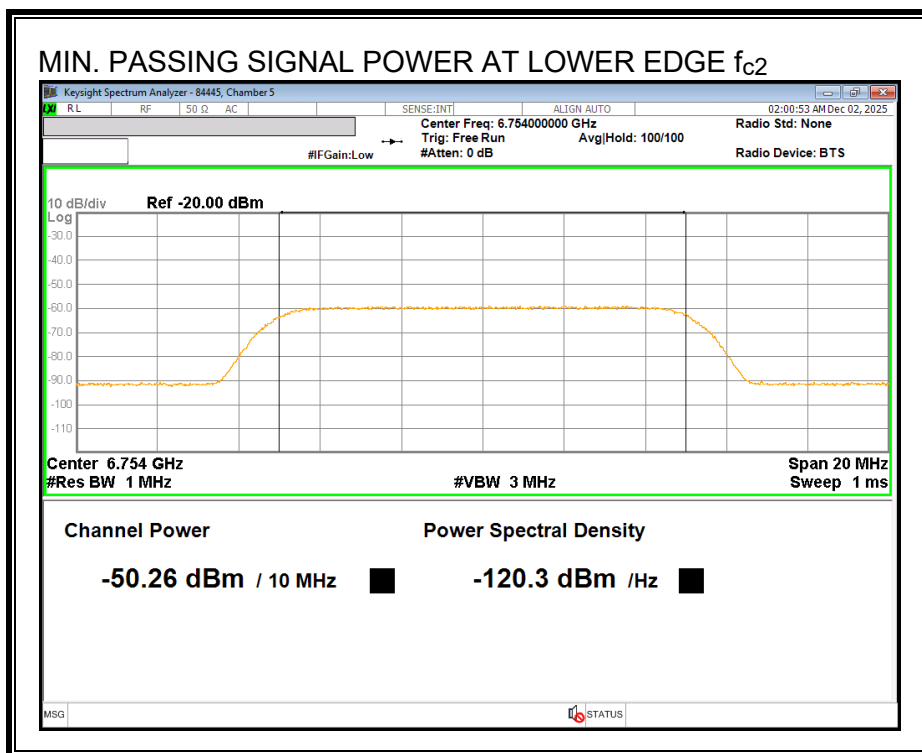


Upper Edge Incumbent Signal f_{c3} :

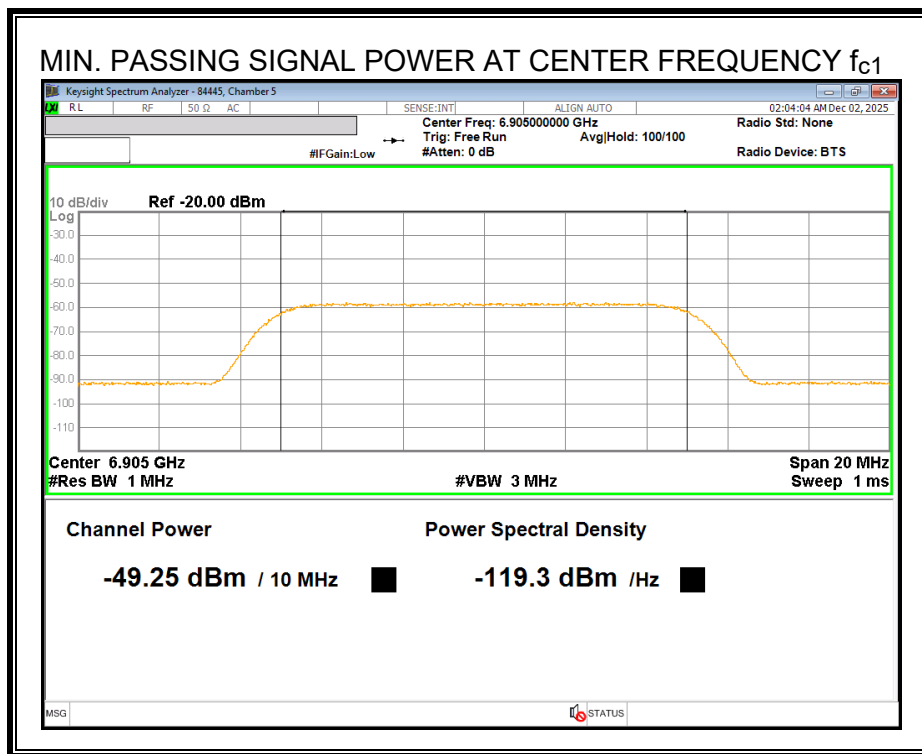


MINIMUM PASSING INCUMBENT SIGNAL POWER

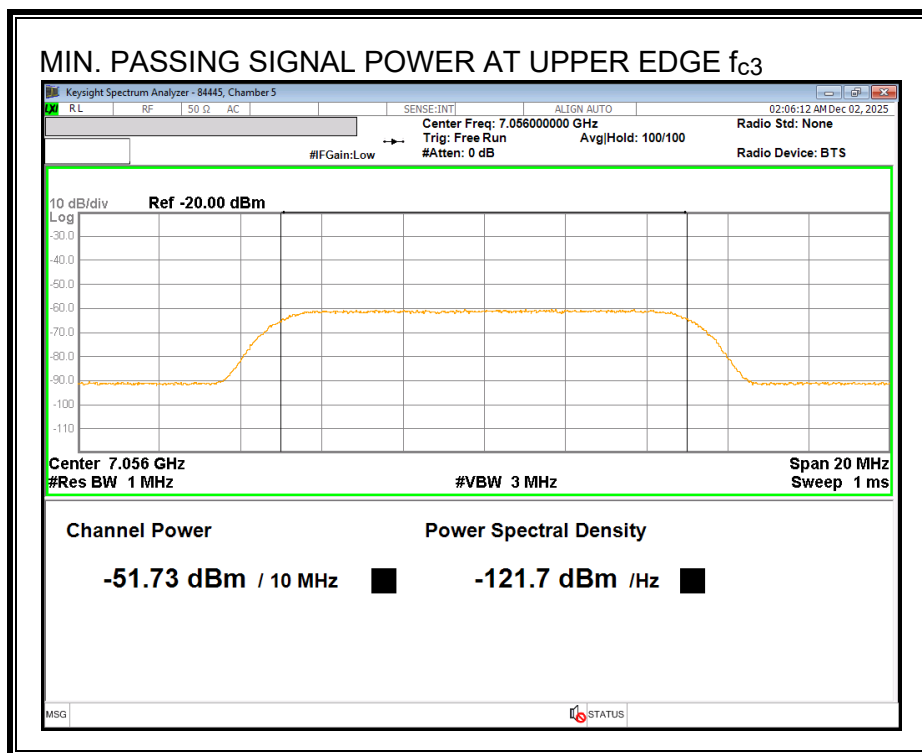
Lower Edge Incumbent Signal f_{c2} :



Center Frequency Incumbent Signal f_{c1} :

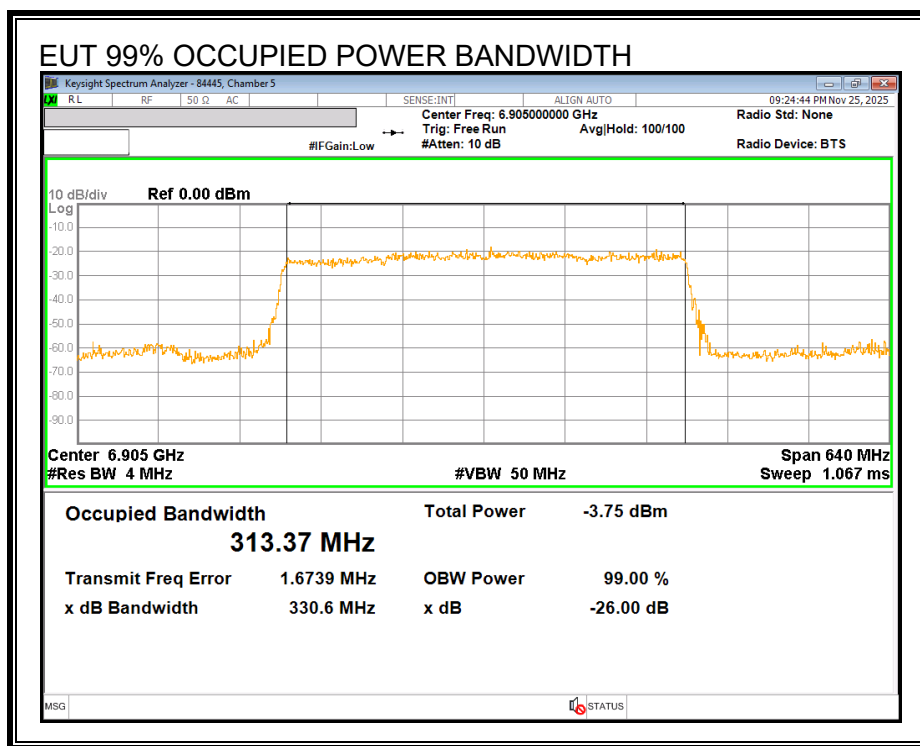


Upper Edge Incumbent Signal f_{c3} :



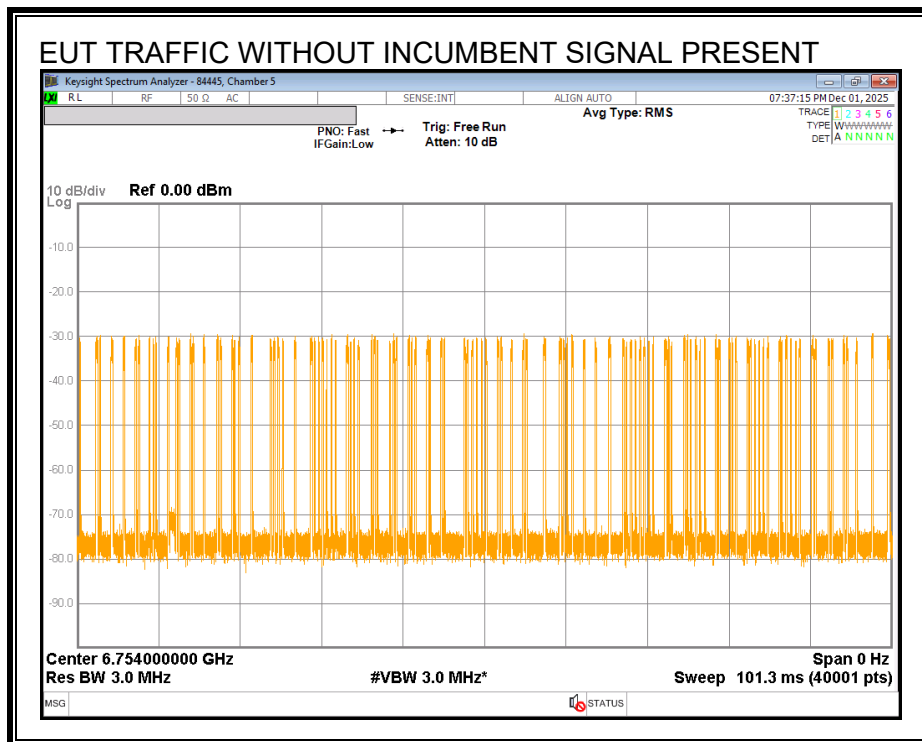
8.9.2. EUT TRANSMISSION PLOTS

EUT 99% OCCUPIED POWER BANDWIDTH

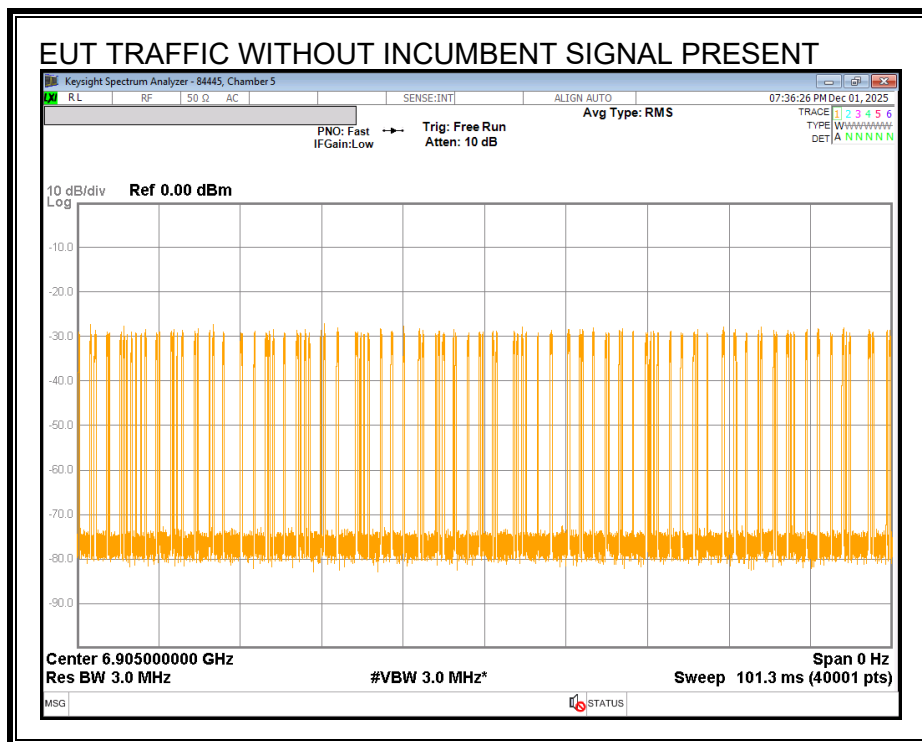


TRAFFIC WITHOUT THE INCUMBENT SIGNAL PRESENT

Lower Edge f_{c2} :



Center Frequency f_{c1} :



EUT TRAFFIC WITHOUT INCUMBENT SIGNAL PRESENT

Keysight Spectrum Analyzer - 84445, Chamber 5

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 07:37:41 PM Dec 01, 2025

PNO: Fast IF Gain: Low Trig: Free Run Atten: 10 dB Avg Type: RMS

TRACE 1 2 3 4 5 6 TYPE W W W W W W W W DET A N N N N N N

10 dB/div Ref 0.00 dBm

Log

Center 7.056000000 GHz Span 0 Hz

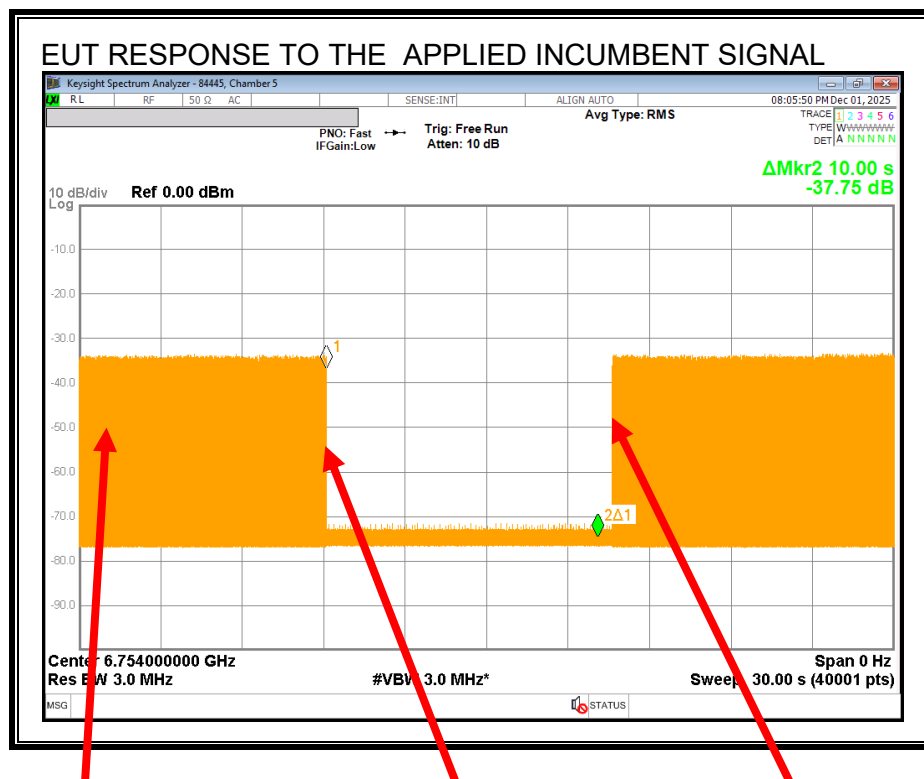
Res BW 3.0 MHz #VBW 3.0 MHz* Sweep 101.3 ms (40001 pts)

MSG STATUS

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} :



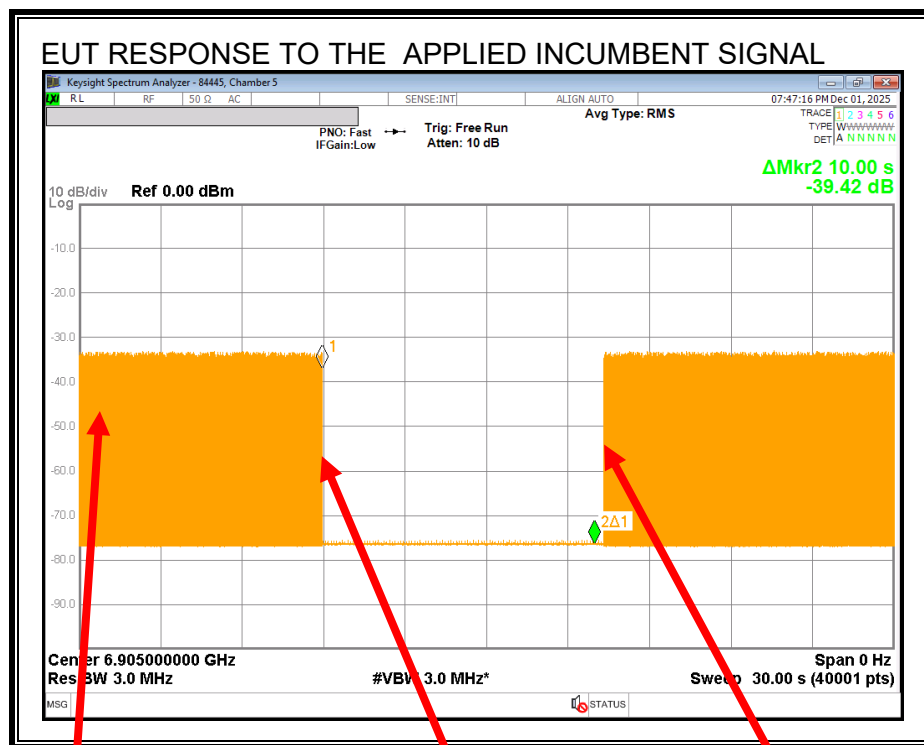
Normal Traffic

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} :



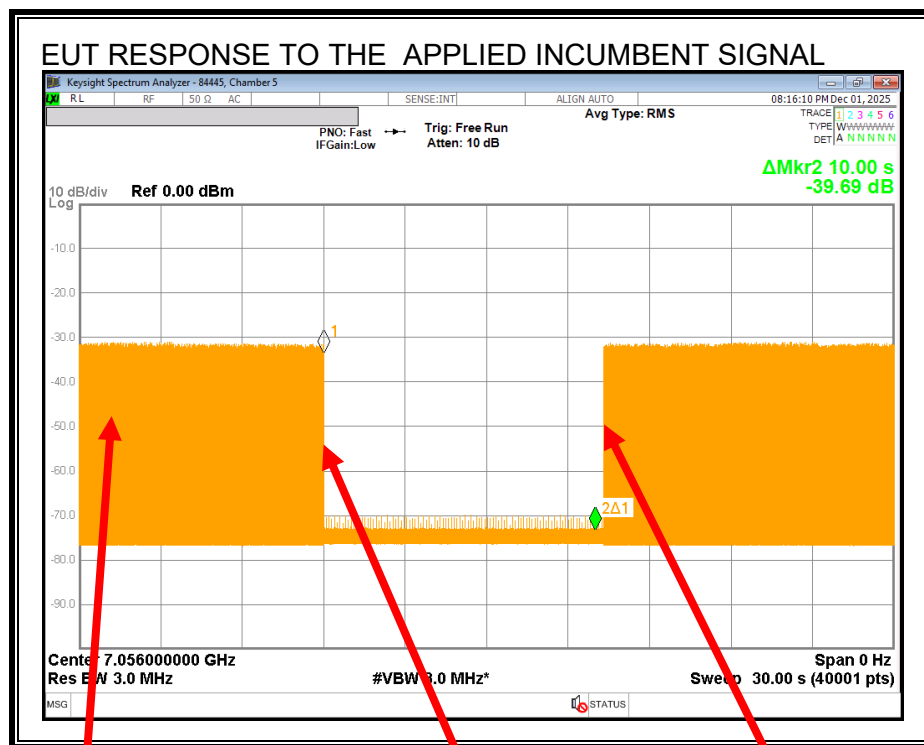
Normal Traffic

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

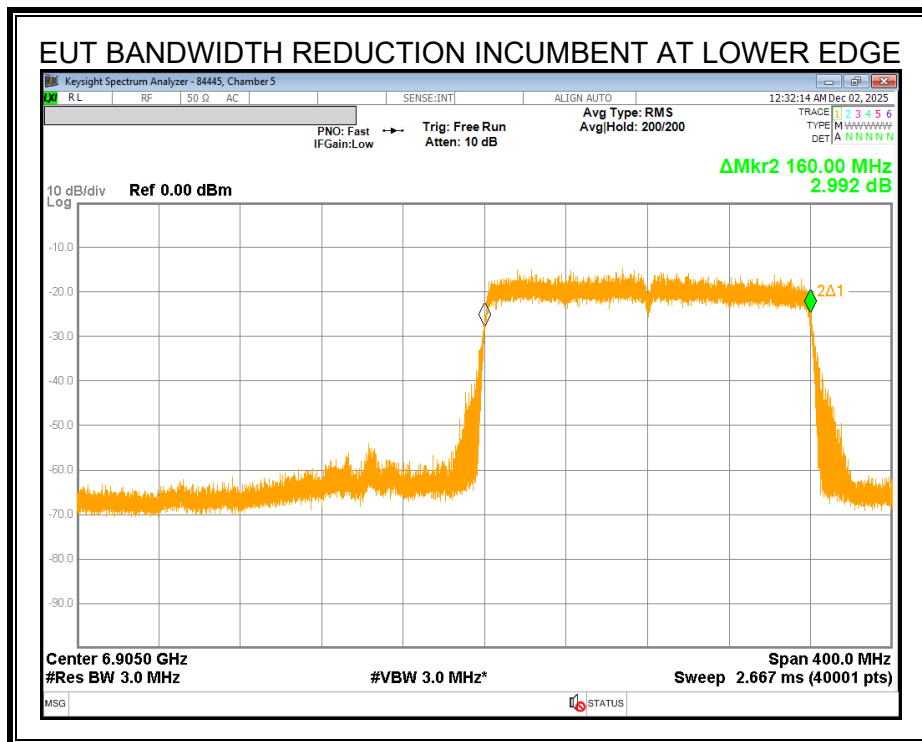
Application of Incumbent
Transmissions Ceased

Incumbent Removed
Transmissions Resume

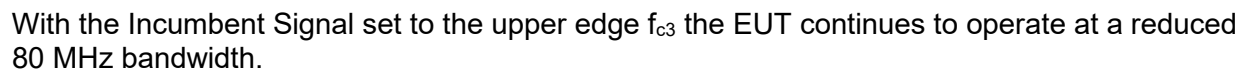
Transmissions cease while the Incumbent AWGN Signal is present and resume after it is removed.

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 160 MHz bandwidth.



8.9.3. TABULATED TEST RESULTS

INCUMBENT SIGNAL DETECTION RESULTS

Test Date	
Tested By	84445
Test Location	Chamber 5

EUT Channel Center Frequency, f_{c1} (MHz)	6905
EUT Nominal Channel Bandwidth (MHz)	320
99% Occupied Bandwidth of the EUT (MHz)	313.37
EUT 99% OBW Lower Edge, F_L (MHz)	6748.32
EUT 99% OBW Upper Edge, F_H (MHz)	7061.69
99% Occupied Bandwidth of the Incumbent Signal (MHz)	10.034
Test Frequency of Incumbent Signal (f_{c2}) Near EUT F_L (MHz)	6754
Test Frequency of Incumbent Signal at f_{c1} (MHz)	6905
Test Frequency of Incumbent Signal (f_{c3}) Near EUT F_H (MHz)	7056
Maximum Allowed Incumbent Amplitude at Antenna (dBm)	-62
Minimum Antenna Gain (dBi)	-4.59
Maximum Allowed Incumbent Amplitude at Radio Port (dBm)	-66.59
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} at Test Fixture (dBm)	-50.26
Test Fixture Cable Loss	28.50
Lowest Passing Measured Incumbent Signal Amplitude at f_{c2} (dBm)	-78.76
Margin (dBm)	-12.17
Result (PASS / FAIL)	PASS
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} at Test Fixture (dBm)	-49.25
Test Fixture Cable Loss	28.60
Lowest Passing Measured Incumbent Signal Amplitude at f_{c1} (dBm)	-77.85
Margin (dBm)	-11.26
Result (PASS / FAIL)	PASS
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} at Test Fixture (dBm)	-51.73
Test Fixture Cable Loss	28.70
Lowest Passing Measured Incumbent Signal Amplitude at f_{c3} (dBm)	-80.43
Margin (dBm)	-13.84
Result (PASS / FAIL)	PASS

INCUMBENT SIGNAL DETECTION CERTAINTY RATE

Test Date	2025-12-01
Tested By	84445
Test Location	Chamber 5

Trial	AWGN Detected (Yes / No)		
	Incumbent AWGN at f_{c2}	Incumbent AWGN at f_{c1}	Incumbent AWGN at f_{c3}
1	Yes	Yes	Yes
2	Yes	Yes	Yes
3	Yes	Yes	Yes
4	Yes	Yes	Yes
5	Yes	Yes	Yes
6	Yes	Yes	Yes
7	Yes	Yes	Yes
8	Yes	Yes	Yes
9	Yes	Yes	Yes
10	Yes	Yes	Yes
Test Result	PASS	PASS	PASS

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

Tx OPERATIONAL STATUS TEST RESULTS

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

Test Date	2025-12-01
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
-50.26	28.50	-78.76	-4.59	-74.17	-62	Ceased
-52.24	28.50	-80.74	-4.59	-76.15	-62	Minimal
-59.23	28.50	-87.73	-4.59	-83.14	-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
-49.25	28.60	-77.85	-4.59	-73.26	-62	Ceased
-54.33	28.60	-82.93	-4.59	-78.34	-62	Minimal
-55.36	28.60	-83.96	-4.59	-79.37	-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
-51.73	28.70	-80.43	-4.59	-75.84	-62	Ceased
-53.78	28.70	-82.48	-4.59	-77.89	-62	Minimal
-59.72	28.70	-88.42	-4.59	-83.83	-62	Normal

9. SETUP PHOTOS

Please refer to R15980274-EP1c for setup photos.

END OF TEST REPORT