

FCC and ISED Test Report

Apple Inc
Model: A3449



In accordance with FCC 47 CFR Part 15E,
ISED RSS-248 and ISED RSS-GEN
(6 GHz WLAN)

Prepared for: Apple Inc
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Document 75964010-19 Issue 02



SIGNATURE			
NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Steven White	Senior Technical Specialist	Authorised Signatory	20 February 2026

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15E, ISED RSS-248 and ISED RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Report Generation	Rachael Watkins	20 February 2026	

FCC Accreditation 553713/UK2026 Concorde Park, Fareham Test Laboratory ISED Accreditation 28798/UK0003 Concorde Park, Fareham Test Laboratory

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15E: 2024, ISED RSS-248: Issue 3 (2024-10) and ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02) for the tests detailed in section 1.3.

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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	31 January 2026
2	Update to section 2.7	20 February 2026

Table 1

1.2 Introduction

Applicant	Apple Inc
Manufacturer	Apple Inc
EUT/Sample Identification	Refer to section 1.6
Test Specification/Issue/Date	FCC 47 CFR Part 15E: 2024 ISED RSS-248: Issue 3 (2024-10) ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02)
Start of Test	05-August-2025
Finish of Test	20-February-2026
Name of Engineer(s)	Dale Hills, James Woods, Arjun Sasikumar, Elliot Callender, Mahmud Chowdhury, Joshua O'Donnell, Manohar Thota, Vineeth Nagaraj, Dulanjan Witharamalage, Akhil Rajendran Bhaskaran Nair, Zeeshan Zia, Colin Brain, Marius Vasii, Manohar Thota, Marius Vasii, Feda Hussein, Colin Brain, Tony Baby, Jayvir Makwana, Stefan Gilfedder, Babitha Babu.
Related Document(s)	ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 662911 D01 v02r01 KDB 789033 D02 v02r01 KDB 987594 D02 v03



1.3 Brief Summary

A brief summary
accordance with FCC 47 CFR Part 15E, ISSED RSS-248 and ISSED RSS-GEN is shown below.

of Results

of the tests carried out in

Section	Specification Clause			Test Description	Result	Comments/Base Standard
	Part 15E	RSS-248	RSS-GEN			
Configuration and Mode: 6 GHz WLAN						
-	15.203	-	-	Antenna Requirement	N/T	The device complies with the provisions of this section, as it uses permanently attached integral antennas.
2.1	15.407 (a)	4.4	6.7	Emission Bandwidth	Pass	KDB 789033 D02 v02r01
2.2	15.407 (a)	4.5	6.12	Dual Client Test	Pass	KDB 987594 D02 v03
2.3	15.407 (a)	4.5	6.12	Maximum Conducted Output Power	Pass	KDB 662911 D01 v02r01 KDB 789033 D02 v02r01
2.4	15.407 (a)	4.5	-	Maximum Conducted Power Spectral Density	Pass	KDB 662911 D01 v02r01 KDB 789033 D02 v02r01
2.5	15.407 (b)	4.6	6.13	Authorised Band Edges	Pass	ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01
2.6	15.209 and 15.407 (b)	4.6	6.13 and 8.9	Spurious Radiated Emissions	Pass	ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01
2.7	15.407 (b)	4.6	6.13	Unwanted Emissions within the 5925-7125 MHz band	Pass	KDB 987594 D02 v03
2.8	15.407 (d)(6)	4.7	-	Contention Based Protocol	Pass	KDB 987594 D02 v03
2.9	15.407 (d)(10)	4.5.6	-	Transmit Power Control	Pass	KDB 987594 D02 v03

Table 2



1.4 Product Information

1.4.1 Technical Description

The equipment under test (EUT) was a portable laptop computer.

1.4.2 Test Modes

The EUT's 6 GHz 802.11 radio supported SISO (Single Input/Single Output) and 2x2 MIMO (Multiple Input/Multiple Output) modes. 802.11n supports 20 MHz and 40 MHz bandwidths, 802.11a/ac/ax/be support 20 MHz, 40 MHz, 80MHz and 160 MHz bandwidths.

802.11a mode supports SISO and Cyclic Delay Diversity (CDD) operation only. 802.11n/ac/ax/be supported SISO, Cyclic Delay Diversity (CDD), Space Division Multiplexing (SDM) and Space Time Block Coding (STBC) and Transmit Beamforming (TxBF) modes. The EUT supported 802.11ax Single User (SU) and Multi-User (MU) with all Resource Unit (RU) sizes from 26 subcarriers, up to the maximum allowed, dependent on channel bandwidth.

The EUT is categorized as a Standard Power/Low Power (6CD) Dual Client & (6VL) Very Low Power device in the 5.925-7.125 GHz bands by region, as described below.

Region	U-NII-5 (5925 - 6425 MHz)	U-NII-6 (6425 - 6525MHz)	U-NII-7 (6525 - 6875 MHz)	U-NII-8 (6875 - 7125 MHz)
Canada (ISED)	SP/LP/VLP	SP/LP	SP/LP/VLP	LP
US (FCC)	SP/LP/VLP	LP	SP/LP/VLP	LP

The EUT uses different output powers per core dependent on how many cores are used. The EUT also uses different power tables for Cyclic Delay Diversity (CDD), Space Division Multiplexing (SDM) and Transmit Beamforming (TxBF) modes. It uses the same conducted power across all cores in any given mode, but due to the different antenna gains the radiated powers per core differ.

After preliminary investigations were performed to find worst-case operation, the EUT was tested in the following modes:

SISO Modes (Core 0)

- 802.11a - 12 Mbps
- 802.11a40 - 12 Mbps
- 802.11a80 - 12 Mbps
- 802.11a160 - 12 Mbps
- 802.11ax HE20 SU - MCS2x1
- 802.11ax HE40 SU - MCS2x1
- 802.11ax HE80 SU - MCS2x1
- 802.11ax HE160 SU - MCS2x1
- 802.11ax HE20 MU RU26/52/106 - MCS2x1*
- 802.11be EHT20 MU RU52+26/106+26 - MCS2x1
- 802.11be EHT80 MU RU484+242 - MCS2x1
- 802.11be EHT160 MU RU996+484/996+484+242 - MCS2x1

2x2 MIMO Modes (Core 0 + Core 1 for U-NII-5 / 6 / 7 / 8):

- 802.11a - CDD - 12 Mbps
- 802.11a40 - CDD - 12 Mbps
- 802.11a80 - CDD - 12 Mbps



- 802.11a160 - CDD - 12 Mbps
- 802.11ax HE20 SU - CDD (MCS2x1), SDM (MCS2x2) and TxBF (MCS2x1)
- 802.11ax HE40 SU - CDD (MCS2x1), SDM (MCS2x2) and TxBF (MCS2x1)
- 802.11ax HE80 SU - CDD (MCS2x1), SDM (MCS2x2) and TxBF (MCS2x1)
- 802.11ax HE160 SU - CDD (MCS2x1) and SDM (MCS2x2)
- 802.11ax HE20 MU RU26/52/106 - CDD (MCS2x1) and SDM (MCS2x2)*
- 802.11be EHT20 MU RU52+26/106+26 - CDD - MCS2x1
- 802.11be EHT80 MU RU484+242 - CDD - MCS2x1
- 802.11be EHT160 MU RU996+484/996+484+242 - CDD - MCS2x1

*Note: The RU offset for bottom and middle channels were placed in the lowest position and on the top channel, the offset was placed in the upper most position.

1.4.3 Test Setup

For conducted tests the EUT antennas were disconnected and replaced with U.FL to SMA test cables to enable conducted testing on each core. The loss of these test cables were known and compensated for in any conducted measurements.

For all testing except Contention Based Protocol, Dual Client & TPC tests the EUT was put into a continuous transmit test mode with the chipset manufacturer's test commands. The EUT then transmitted the required type of packeted 802.11 data frames of fixed length, containing the standard headers and with pseudo-random data content, ensuring the measured signals were representative and contained all the symbols at the highest power control level.

The test setup used for Contention Based Protocol, Dual Client & TPC tests are described in the relevant test result sections of the present document.

1.4.4 Antenna Gain Table

Antenna Port	Frequency Range (MHz)	Peak Gain (dBi)	Conducted Cable Loss (dB)
Core 0 (WF2)	5925 to 6105	4.5	1.15
	6105 to 6265	3.4	1.17
	6265 to 6425	3.9	1.21
	6425 to 6525	3.8	1.27
	6525 to 6875	4.6	1.25
	6875 to 7125	3.8	1.26
Core 1 (WF1)	5925 to 6105	4.6	1.15
	6105 to 6265	4.0	1.17
	6265 to 6425	4.5	1.21
	6425 to 6525	4.2	1.27
	6525 to 6875	3.5	1.25
	6875 to 7125	4.0	1.26

Table 3

1.5 Deviations from the Standard

No deviations from the applicable test standard were made during testing.



1.6 Identification of the EUT

The table below details identification of the EUT(s) that have been used to carry out the testing within this report.

Model: A3449 and BB2407		
Serial Number	Hardware Version	Software Version
CW7JP2JV4R	REV1.0	25B24
CQLXTWKHC2	REV1.0	25D21
CQHC620VQN	REV1.0	25D38
CFJ2CK94XL	REV1.0	25D21
CRW6MH595K	REV1.0	25D21
DGVHQ7WVQ5	REV1.0	25D21
C2H6P52Q4K	REV1.0	25D21

Table 4

1.7 EUT Modification Record

The table below details modifications made to the EUT during the test programme.

The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
Model: A3449, Serial Number: CQLXTWKHC2			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3449, Serial Number: CW7JP2JV4R			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3449, Serial Number: CFJ2CK94XL			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3449, Serial Number: CRW6MH595K			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3449, Serial Number: DGVHQ7WVQ5			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3449, Serial Number: C2H6P52Q4K			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3449, Serial Number: CQHC620VQN			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 5



1.8 Test Location

TÜV SÜD conducted the following tests at our Concorde Park Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: 6 GHz WLAN		
Emission Bandwidth	Dale Hills, James Woods, Arjun Sasikumar.	UKAS
Dual Client Test	Babitha Babu	UKAS
Maximum Conducted Output Power	Dale Hills, Elliot Callender, Mahmud Chowdhury, Arjun Sasikumar, Joshua O'Donnell	UKAS
Maximum Conducted Power Spectral Density	Dale Hills, Elliot Callender, Mahmud Chowdhury, Arjun Sasikumar, Joshua O'Donnell	UKAS
Authorised Band Edges	Manohar Thota, Vineeth Nagaraj, Dulanjan Witharamalage, Akhil Rajendran Bhaskaran Nair, Zeeshan Zia, Colin Brain, Marius Vasii	UKAS
Spurious Radiated Emissions	Manohar Thota, Marius Vasii, Akhil Rajendran Bhaskaran Nair, Feda Hussein, Colin Brain, Tony Baby	UKAS
Unwanted Emissions within the 5925-7125 MHz band	Dale Hills, James Woods, Joshua O'Donnell, Jayvir Makwana	UKAS
Contention Based Protocol	Stefan Gilfedder	UKAS
Transmit Power Control	Babitha Babu	UKAS

Table 6

Office Address:

TÜV SÜD
Concorde Park
Concorde Way
Fareham
Hampshire
PO15 5FG
United Kingdom



2 Test Details

2.1 Emission Bandwidth

2.1.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (a)(11)
ISED RSS-248, Clause 4.4
ISED RSS-GEN, Clause 6.7

2.1.2 Equipment Under Test and Modification State

A3449, S/N: DGVHQ7WVQ5 - Modification State 0
A3449, S/N: C2H6P52Q4K - Modification State 0

2.1.3 Date of Test

13-October-2025 to 13-January-2026

2.1.4 Test Method

The test was performed in accordance with KDB 789033, clause C.1 for 26 dB bandwidth and clause D for 99% occupied bandwidth.

2.1.5 Environmental Conditions

Ambient Temperature	23.5 - 24.6 °C
Relative Humidity	40.6 - 52.1 %



2.1.6 Test Results

6 GHz WLAN

Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11a LPI (20 MHz)	21.258	22.698
802.11a LPI (40 MHz)	42.840	44.004
802.11a LPI (80 MHz)	106.800	111.852
802.11a LPI (160 MHz)	163.338	163.758
802.11ax HE20 SU LPI	22.164	23.052
802.11ax HE40 SU LPI	44.472	45.396
802.11ax HE80 SU LPI	82.434	82.764
802.11ax HE160 SU LPI	164.514	165.228
802.11a SP (20 MHz)	20.778	22.764
802.11a SP (40 MHz)	43.032	46.128
802.11a SP (80 MHz)	87.758	127.920
802.11a SP (160 MHz)	162.918	164.220
802.11ax HE20 SU SP	21.150	23.046
802.11ax HE40 SU SP	42.528	45.000
802.11ax HE80 SU SP	81.598	82.786
802.11ax HE160 SU SP	164.010	164.220
802.11a VLP (20 MHz)	21.168	23.028
802.11a VLP (40 MHz)	42.972	43.860
802.11a VLP (80 MHz)	106.990	111.768
802.11a VLP (160 MHz)	163.632	164.682
802.11ax HE20 SU VLP	22.116	22.752
802.11ax HE40 SU VLP	44.424	45.192
802.11ax HE80 SU VLP	82.368	83.050
802.11ax HE160 SU VLP	164.472	165.102

Table 7 - 26 dB Bandwidth Summary Results – Core 0

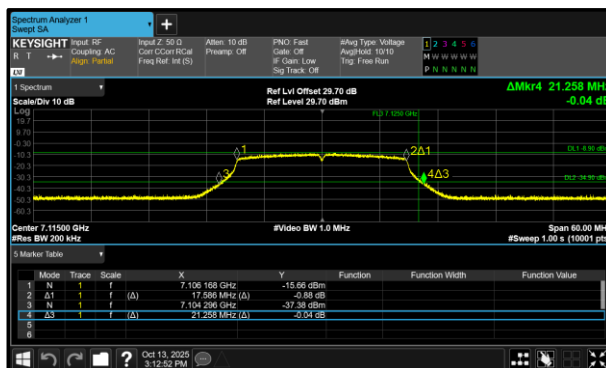


Figure 1 - 802.11a LPI (20 MHz) Minimum 26 dB EBW

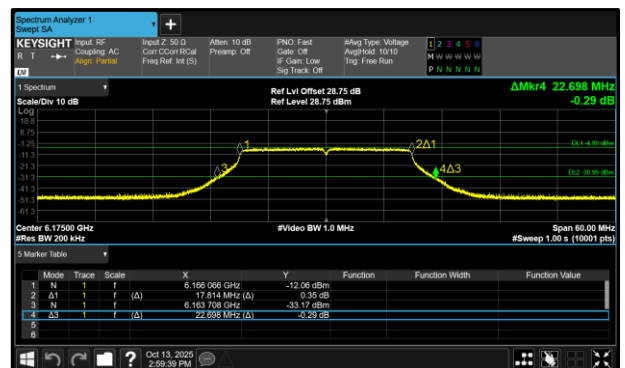
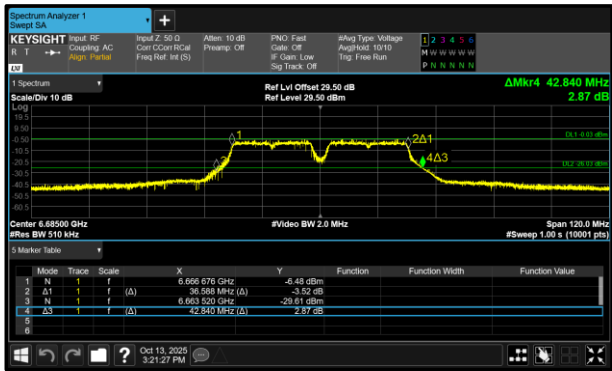
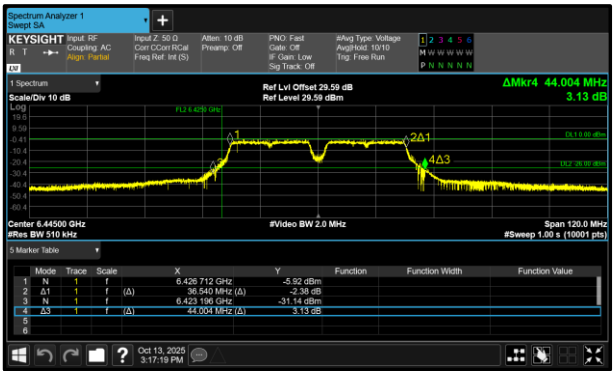
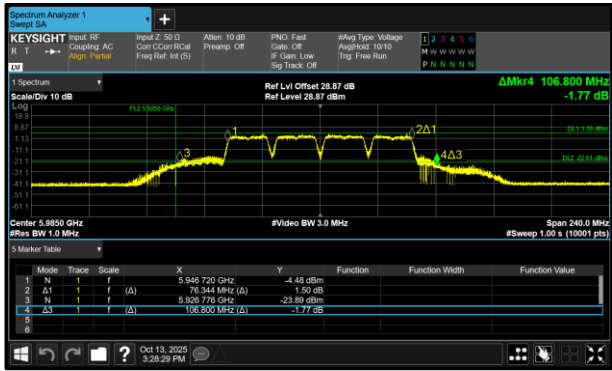
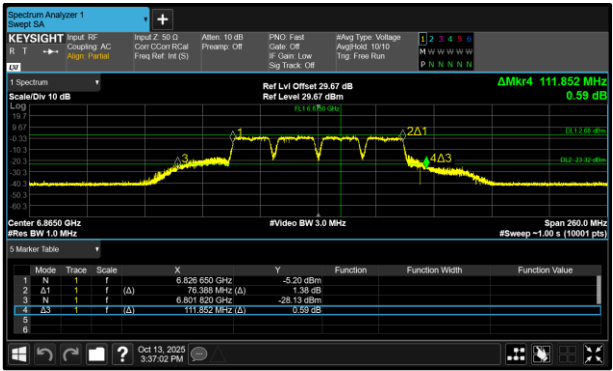
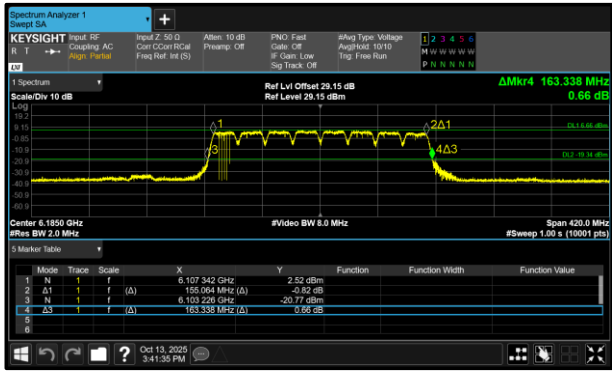
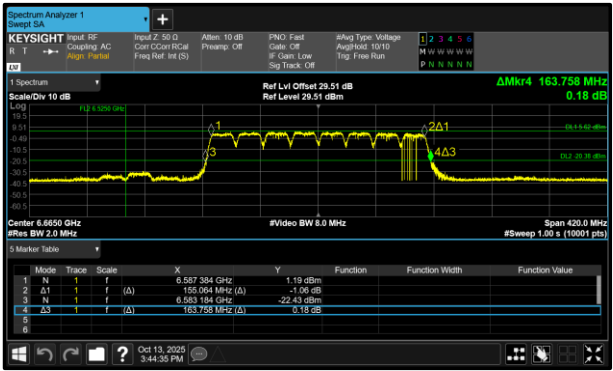


Figure 2 - 802.11a LPI (20 MHz) Maximum 26 dB EBW



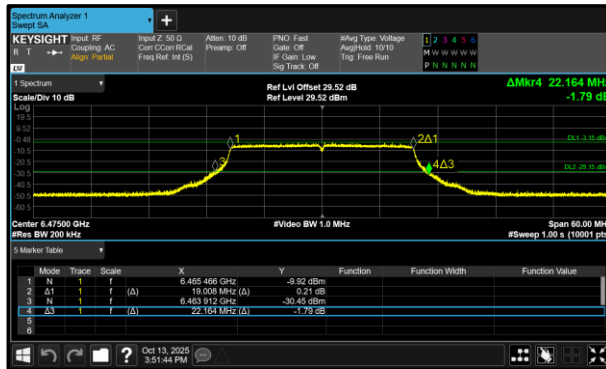


Figure 9 - 802.11ax HE20 SU LPI Minimum 26 dB EBW

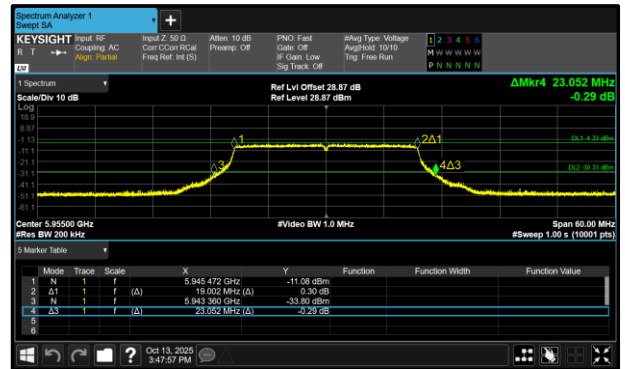


Figure 10 - 802.11ax HE20 SU LPI Maximum 26 dB EBW

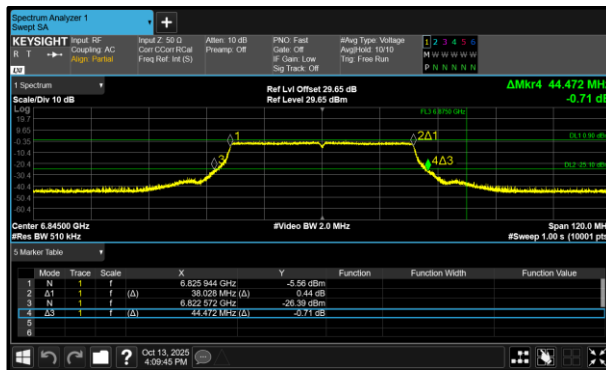


Figure 11 - 802.11ax HE40 SU LPI Minimum 26 dB EBW



Figure 12 - 802.11ax HE40 SU LPI Maximum 26 dB EBW

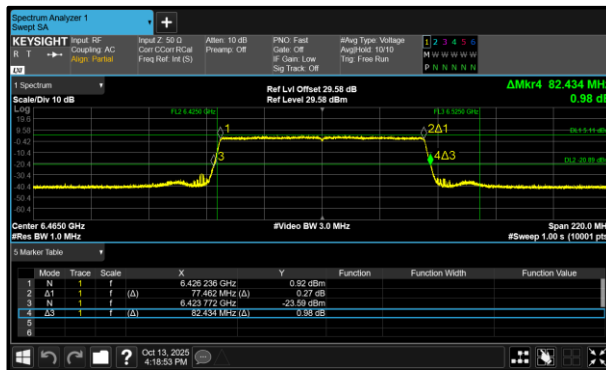


Figure 13 - 802.11ax HE80 SU LPI Minimum 26 dB EBW

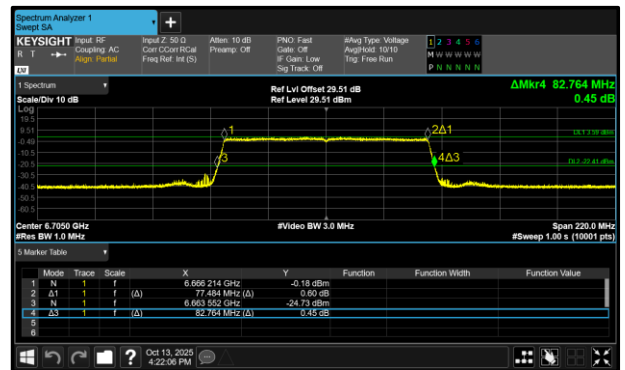


Figure 14 - 802.11ax HE80 SU LPI Maximum 26 dB EBW

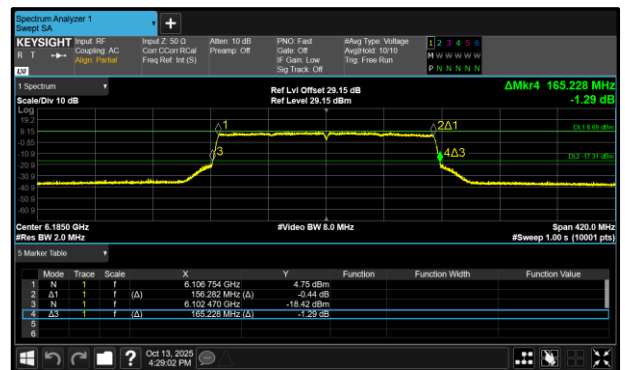


Figure 16 - 802.11ax HE160 SU LPI Maximum 26 dB EBW

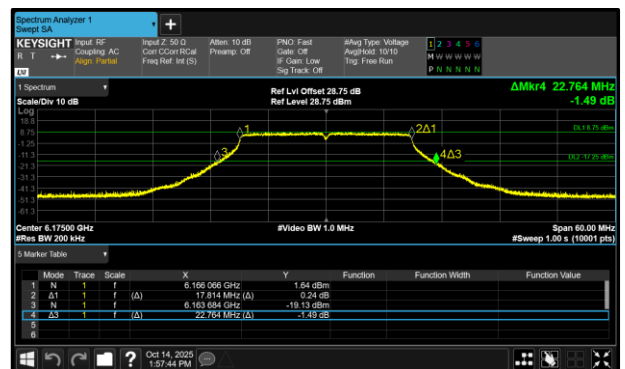


**Figure 18 - 802.11a SP (20 MHz) Maximum 26 dB
EBW**

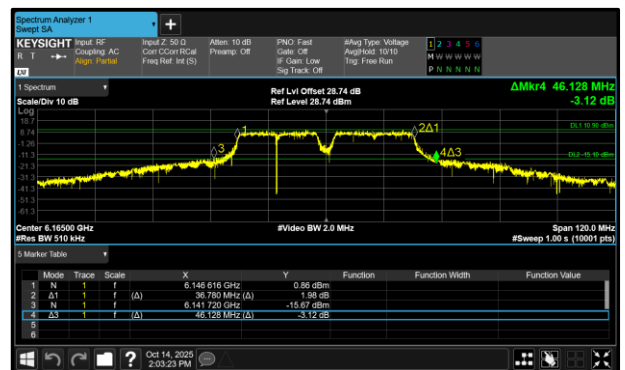
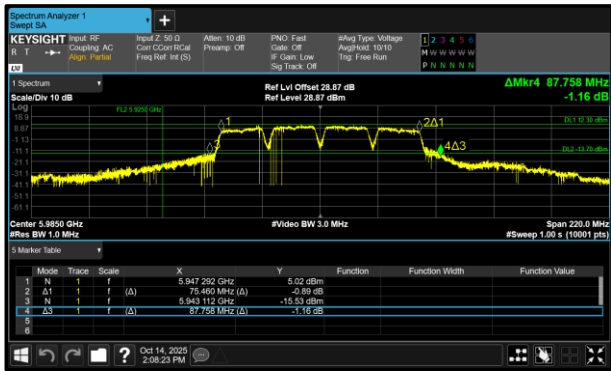
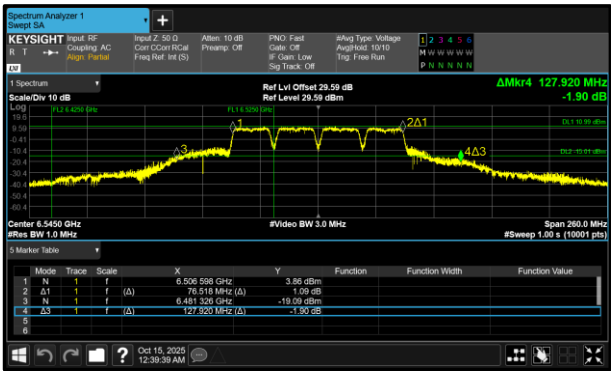
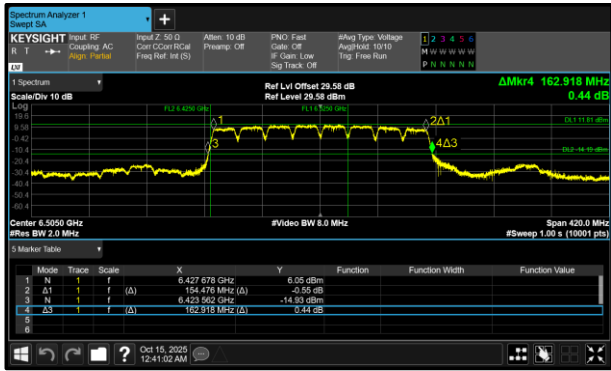
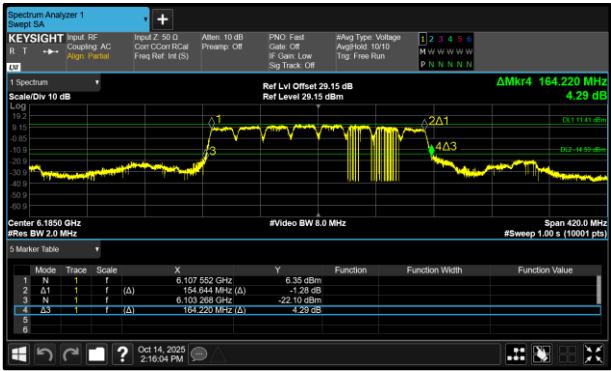
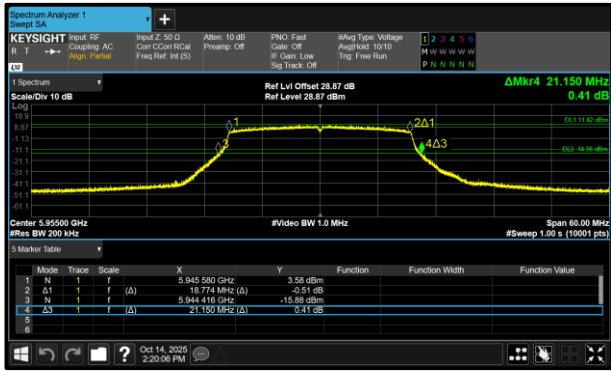
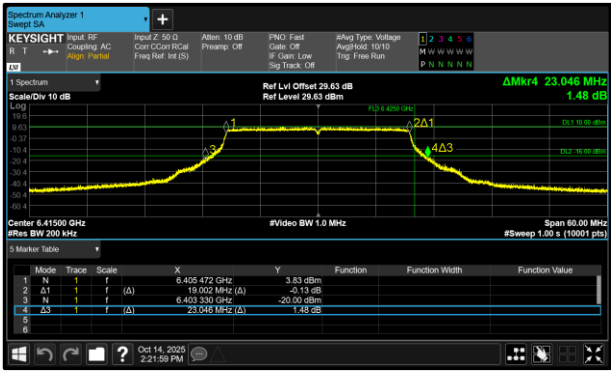
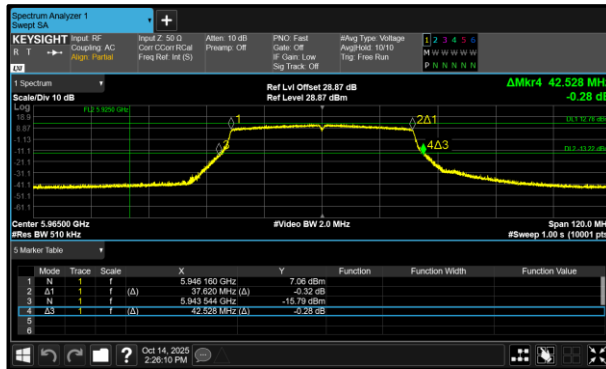
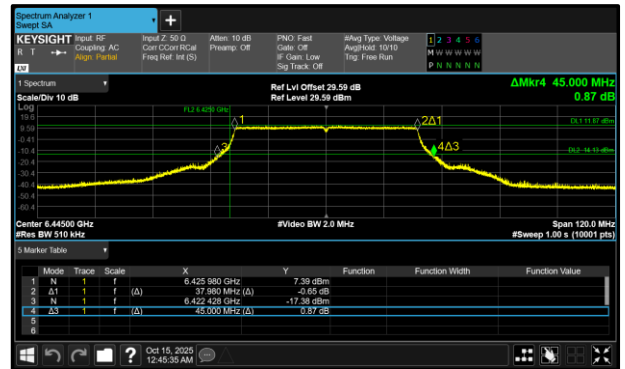
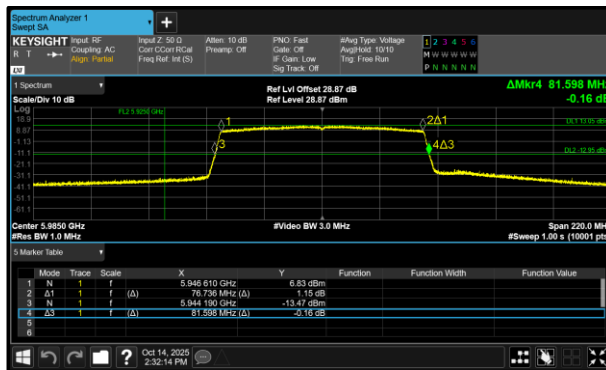
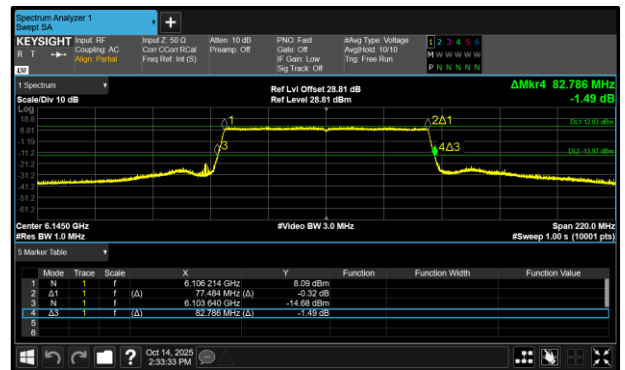
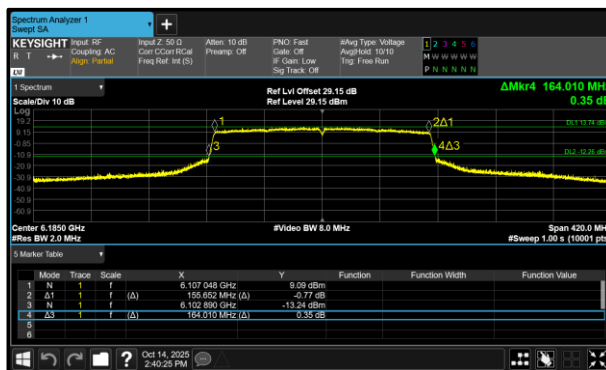
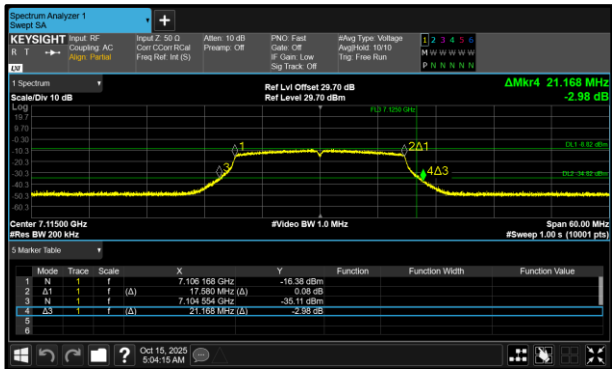
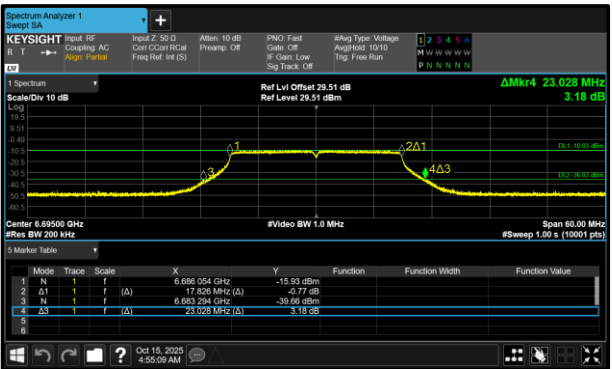
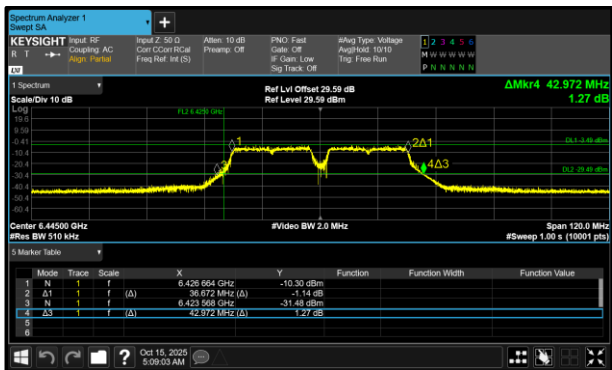
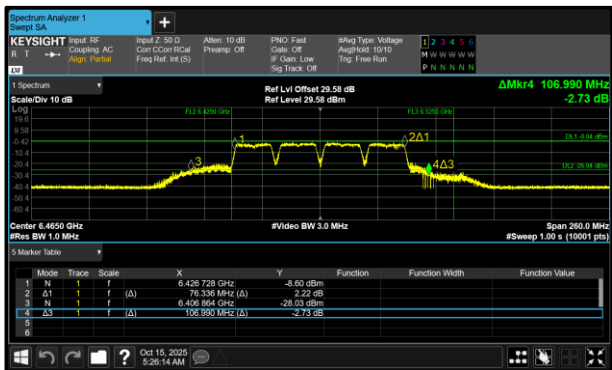
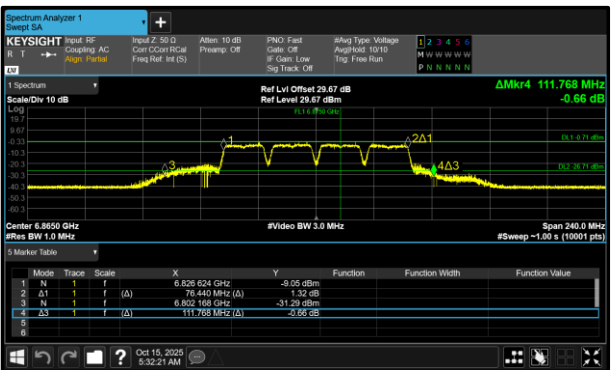


**Figure 20 - 802.11a SP (40 MHz) Maximum 26 dB
EBW**







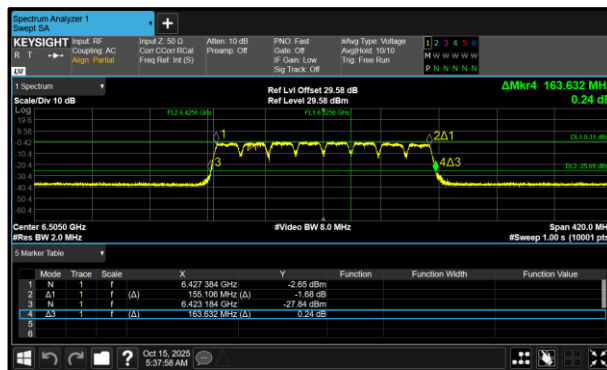


Figure 39 - 802.11a VLP (160 MHz) Minimum 26 dB EBW

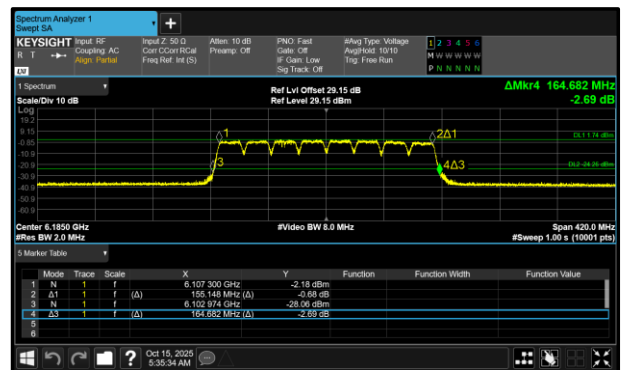


Figure 40 - 802.11a VLP (160 MHz) Maximum 26 dB EBW

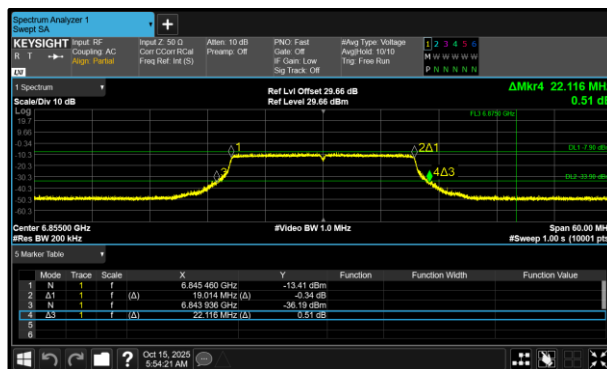


Figure 41 - 802.11ax HE20 SU VLP Minimum 26 dB EBW

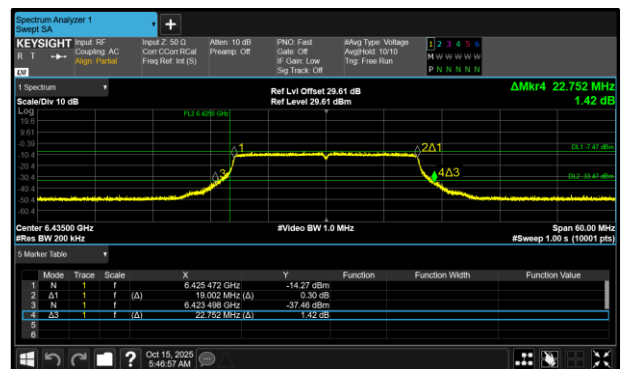


Figure 42 - 802.11ax HE20 SU VLP Maximum 26 dB EBW

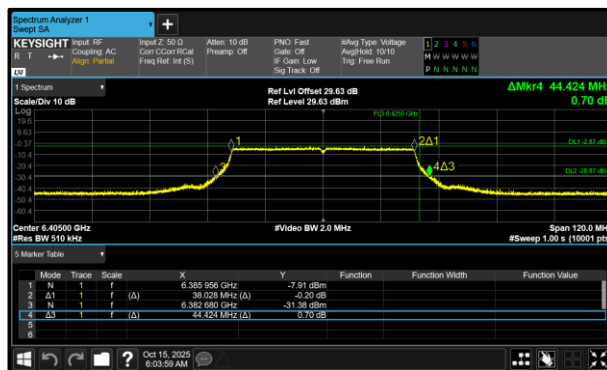


Figure 43 - 802.11ax HE40 SU VLP Minimum 26 dB EBW

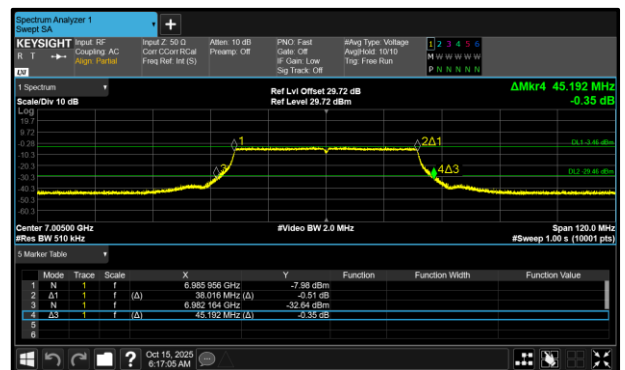
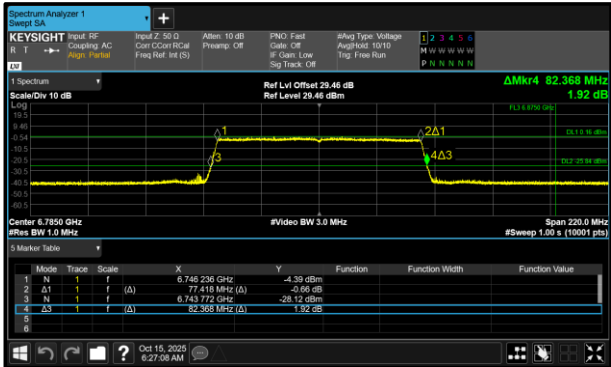
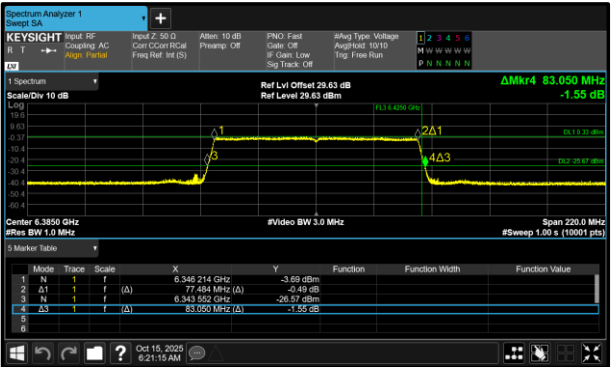
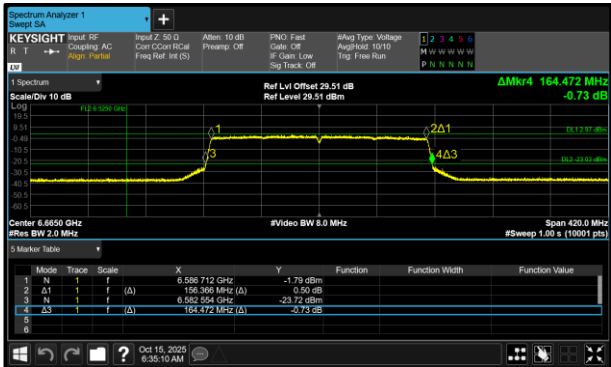
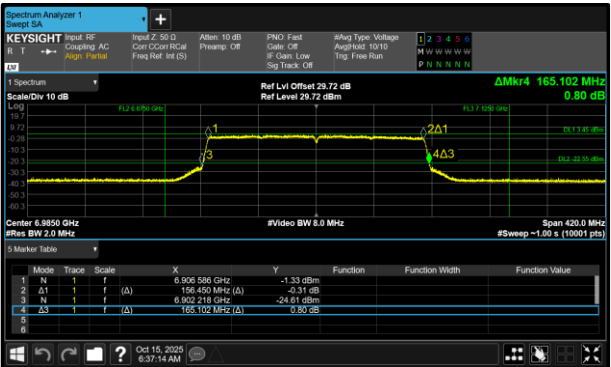


Figure 44 - 802.11ax HE40 SU VLP Maximum 26 dB EBW





Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11a LPI (20 MHz)	17.586	17.832
802.11a LPI (40 MHz)	36.540	36.672
802.11a LPI (80 MHz)	76.296	76.414
802.11a LPI (160 MHz)	155.022	155.148
802.11ax HE20 SU LPI	18.990	19.008
802.11ax HE40 SU LPI	38.004	38.028
802.11ax HE80 SU LPI	77.396	77.484
802.11ax HE160 SU LPI	156.282	156.366
802.11a SP (20 MHz)	17.580	17.814
802.11a SP (40 MHz)	36.300	36.780
802.11a SP (80 MHz)	75.460	76.700
802.11a SP (160 MHz)	154.434	154.644
802.11ax HE20 SU SP	18.774	19.008
802.11ax HE40 SU SP	37.620	38.028
802.11ax HE80 SU SP	76.736	77.484
802.11ax HE160 SU SP	155.568	155.652
802.11a VLP (20 MHz)	17.580	17.838
802.11a VLP (40 MHz)	36.588	36.684
802.11a VLP (80 MHz)	76.336	76.492
802.11a VLP (160 MHz)	155.106	155.148
802.11ax HE20 SU VLP	19.002	19.020
802.11ax HE40 SU VLP	38.016	38.064
802.11ax HE80 SU VLP	77.396	77.484
802.11ax HE160 SU VLP	156.366	156.450

Table 8 - 99% Bandwidth Summary Results – Core 0

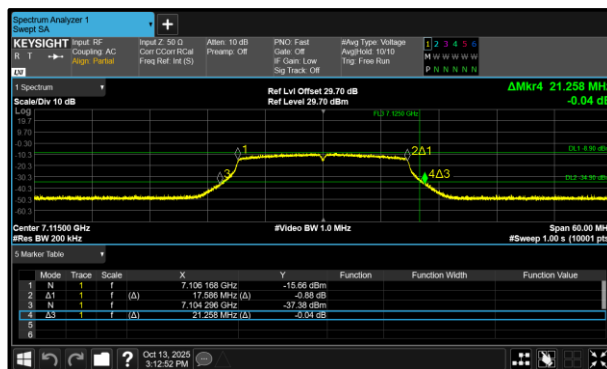


Figure 49 - 802.11a LPI (20 MHz) Minimum 99% OBW

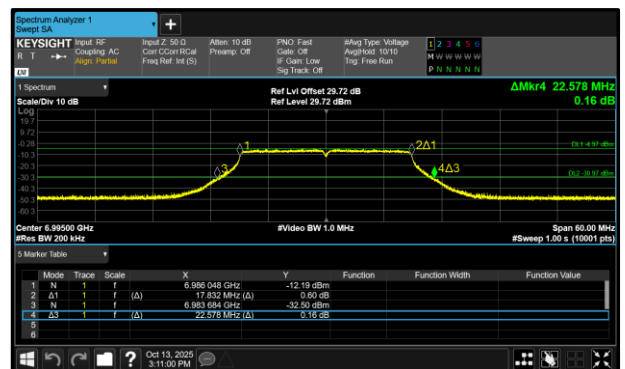


Figure 50 - 802.11a LPI (20 MHz) Maximum 99% OBW

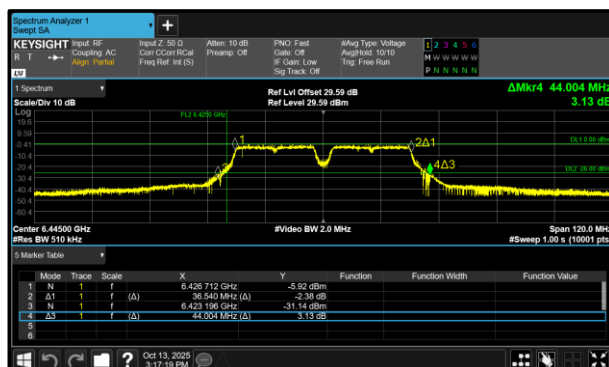


Figure 51 - 802.11a LPI (40 MHz) Minimum 99% OBW

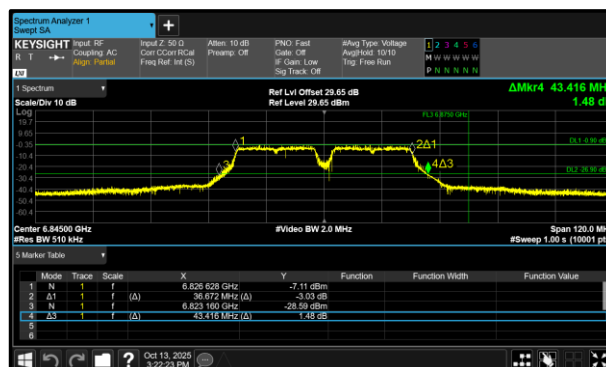


Figure 52 - 802.11a LPI (40 MHz) Maximum 99% OBW

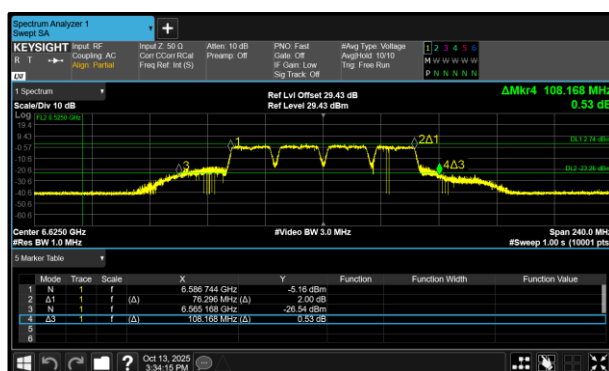


Figure 53 - 802.11a LPI (80 MHz) Minimum 99% OBW

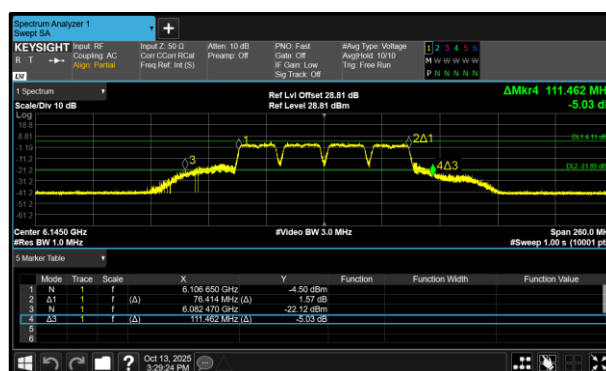


Figure 54 - 802.11a LPI (80 MHz) Maximum 99% OBW

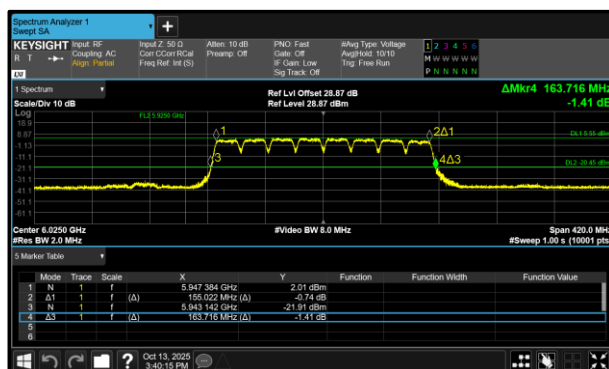


Figure 55 - 802.11a LPI (160 MHz) Minimum 99% OBW

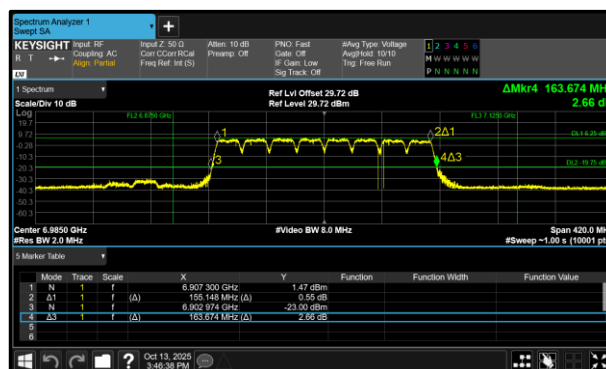


Figure 56 - 802.11a LPI (160 MHz) Maximum 99% OBW

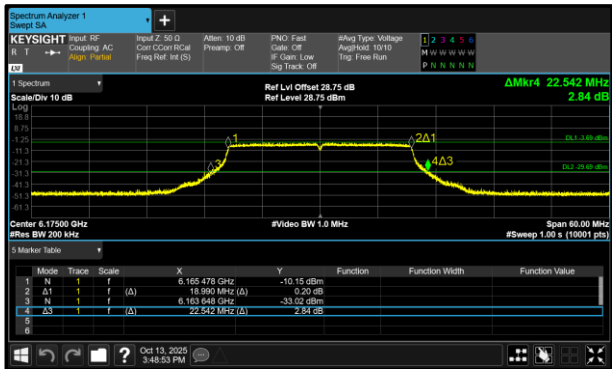


Figure 57 - 802.11ax HE20 SU LPI Minimum 99% OBW

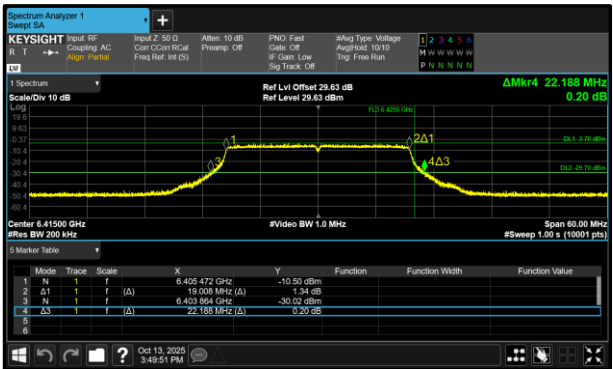


Figure 58 - 802.11ax HE20 SU LPI Maximum 99% OBW

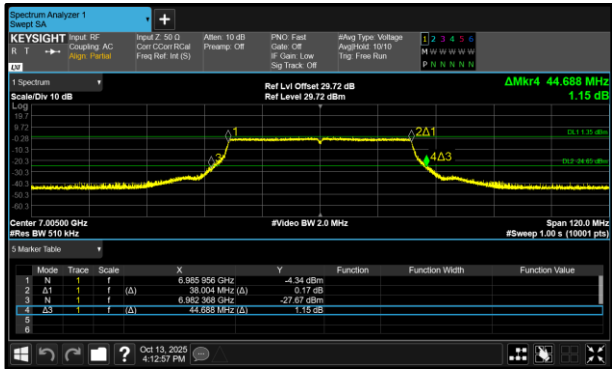


Figure 59 - 802.11ax HE40 SU LPI Minimum 99% OBW

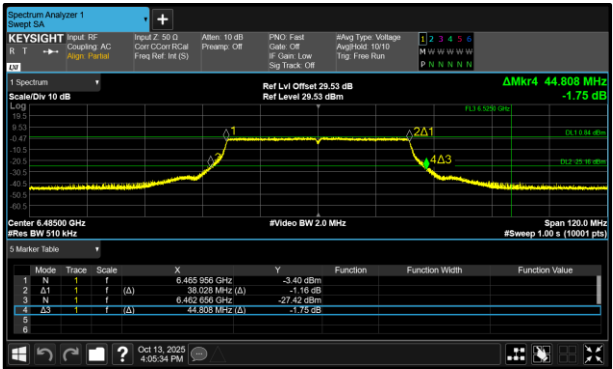


Figure 60 - 802.11ax HE40 SU LPI Maximum 99% OBW

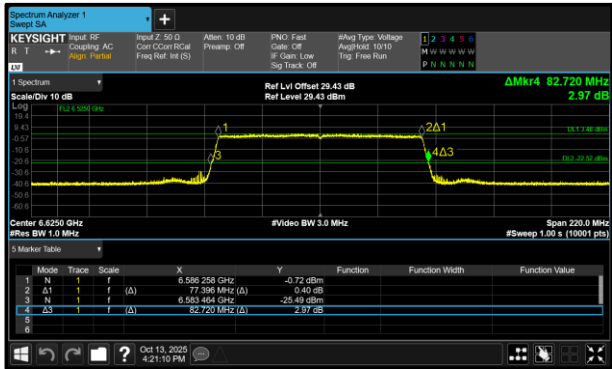


Figure 61 - 802.11ax HE80 SU LPI Minimum 99% OBW

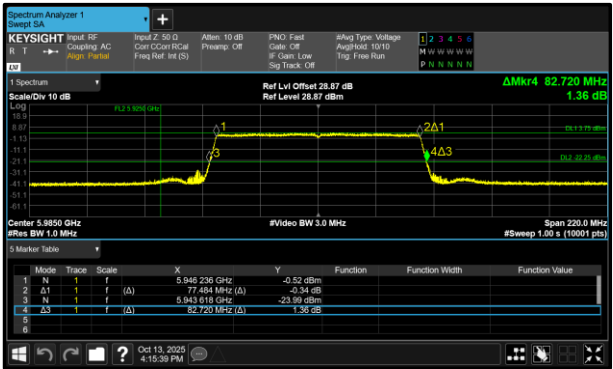


Figure 62 - 802.11ax HE80 SU LPI Maximum 99% OBW

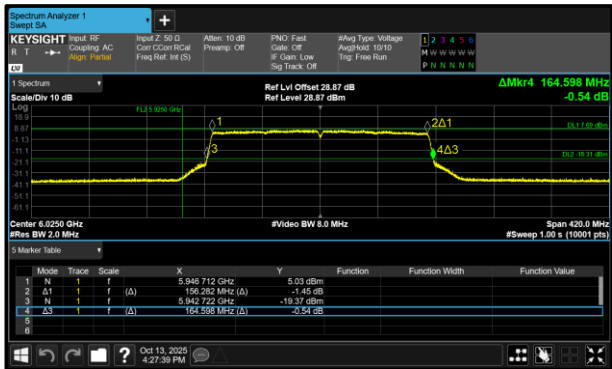


Figure 63 - 802.11ax HE160 SU LPI Minimum 99% OBW

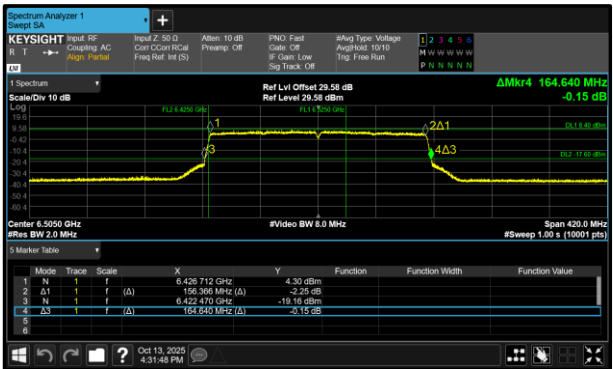


Figure 64 - 802.11ax HE160 SU LPI Maximum 99% OBW



Figure 65 - 802.11a SP (20 MHz) Minimum 99% OBW

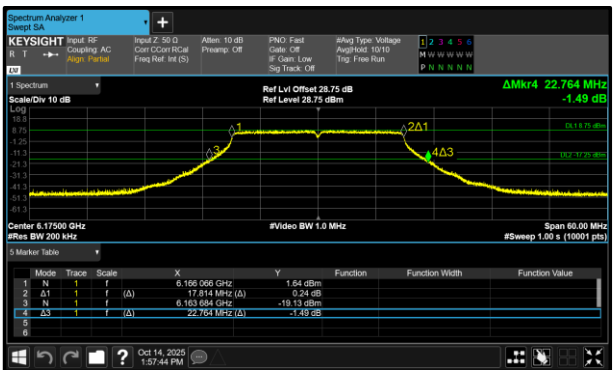


Figure 66 - 802.11a SP (20 MHz) Maximum 99% OBW

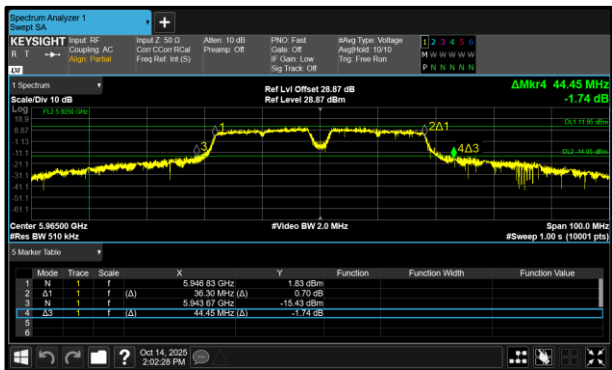


Figure 67 - 802.11a SP (40 MHz) Minimum 99% OBW

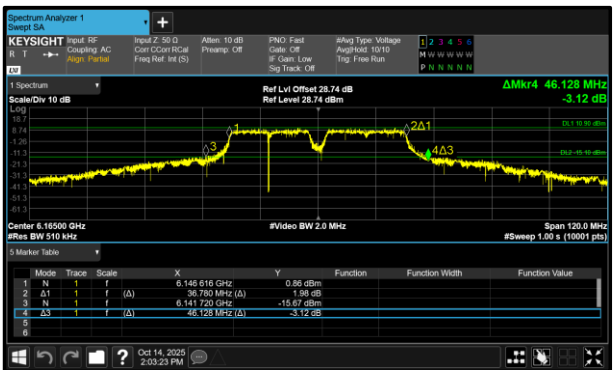


Figure 68 - 802.11a SP (40 MHz) Maximum 99% OBW

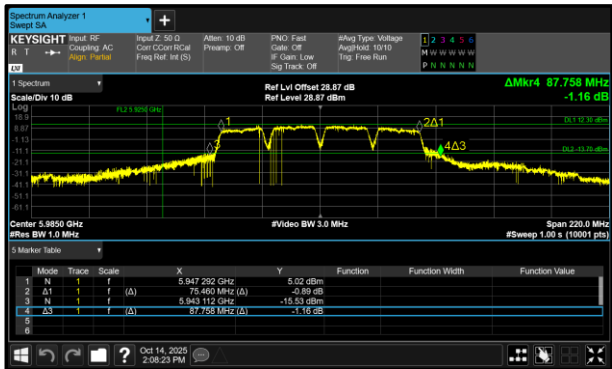


Figure 69 - 802.11a SP (80 MHz) Minimum 99% OBW

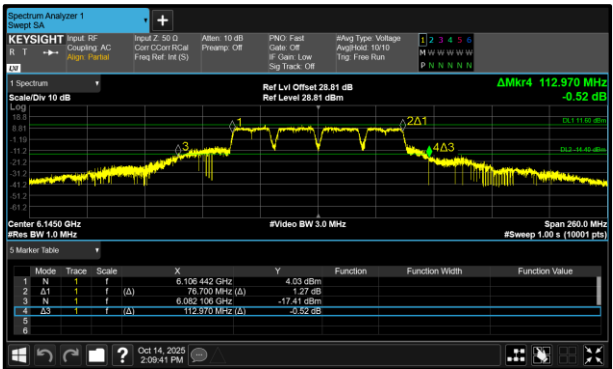


Figure 70 - 802.11a SP (80 MHz) Maximum 99% OBW

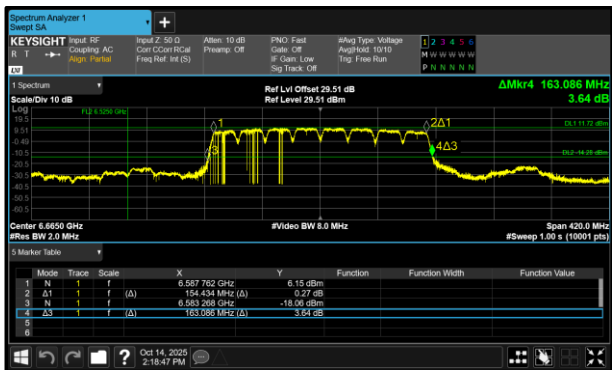


Figure 71 - 802.11a SP (160 MHz) Minimum 99% OBW

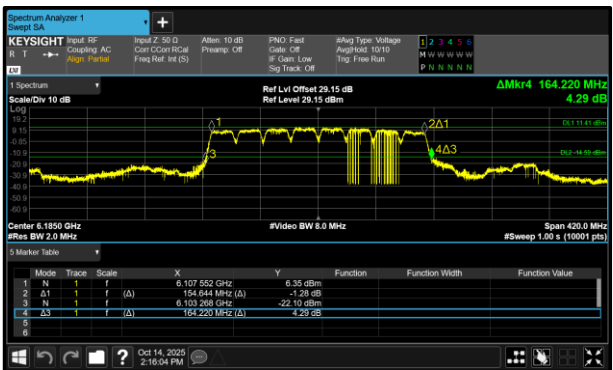


Figure 72 - 802.11a SP (160 MHz) Maximum 99% OBW

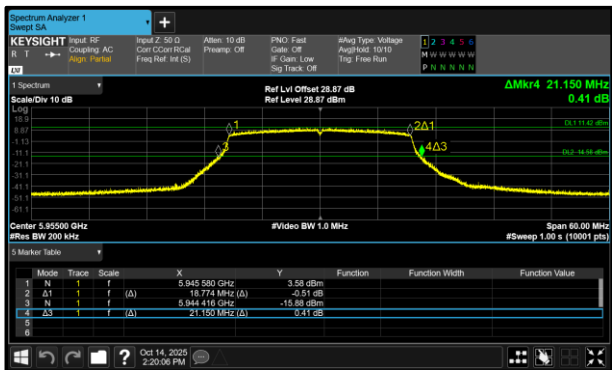


Figure 73 - 802.11ax HE20 SU SP Minimum 99% OBW

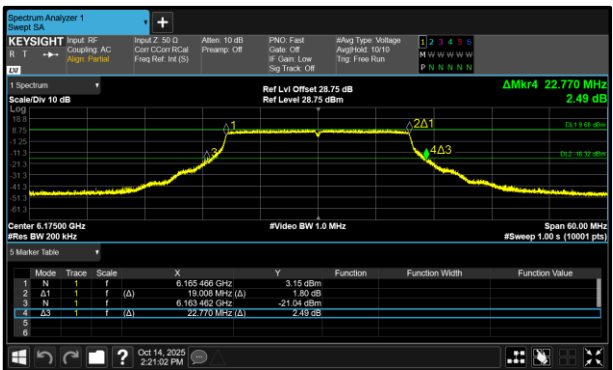


Figure 74 - 802.11ax HE20 SU SP Maximum 99% OBW

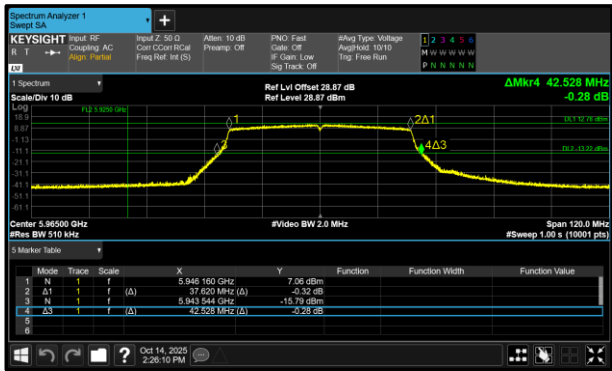


Figure 75 - 802.11ax HE40 SU SP Minimum 99% OBW

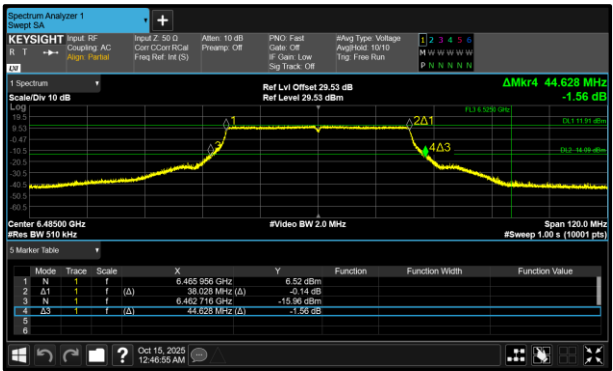


Figure 76 - 802.11ax HE40 SU SP Maximum 99% OBW



Figure 77 - 802.11ax HE80 SU SP Minimum 99% OBW

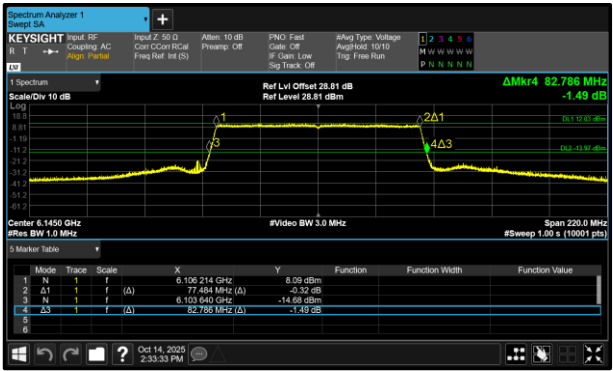


Figure 78 - 802.11ax HE80 SU SP Maximum 99% OBW

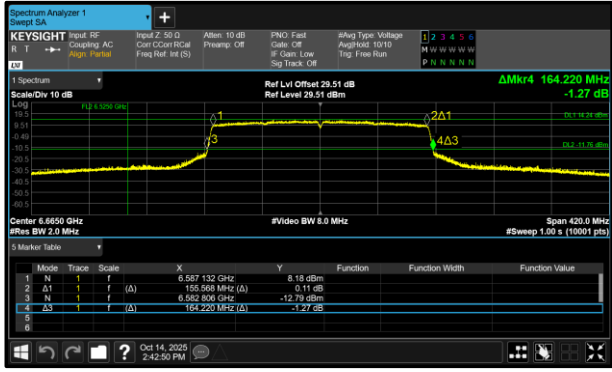


Figure 79 - 802.11ax HE160 SU SP Minimum 99% OBW

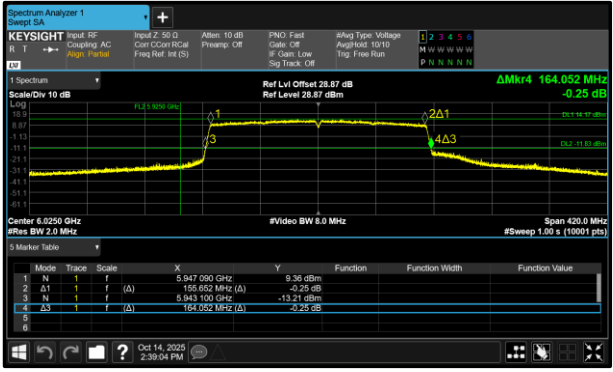


Figure 80 - 802.11ax HE160 SU SP Maximum 99% OBW

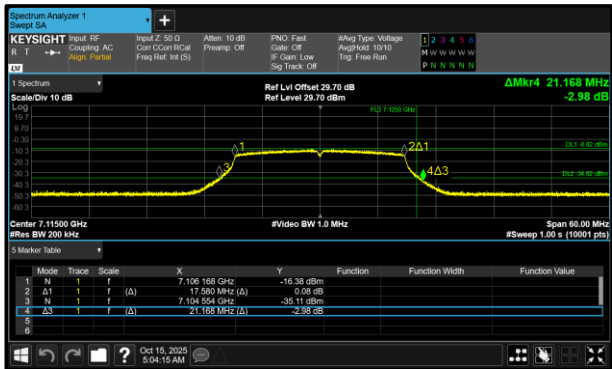


Figure 81 - 802.11a VLP (20 MHz) Minimum 99% OBW

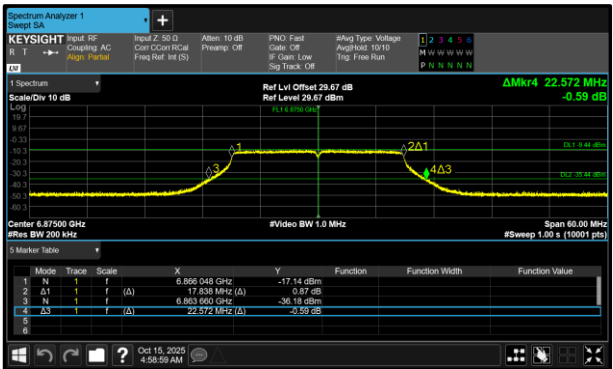


Figure 82 - 802.11a VLP (20 MHz) Maximum 99% OBW



Figure 83 - 802.11a VLP (40 MHz) Minimum 99% OBW



Figure 84 - 802.11a VLP (40 MHz) Maximum 99% OBW

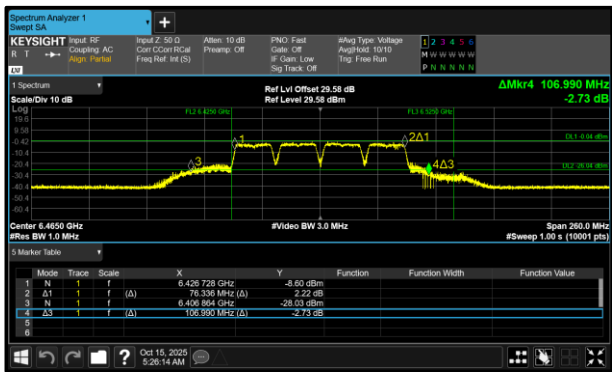


Figure 85 - 802.11a VLP (80 MHz) Minimum 99% OBW

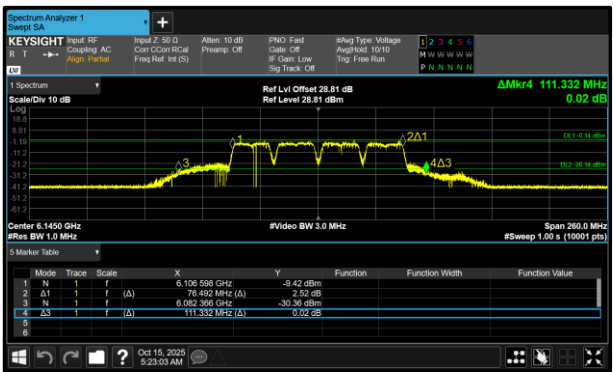


Figure 86 - 802.11a VLP (80 MHz) Maximum 99% OBW

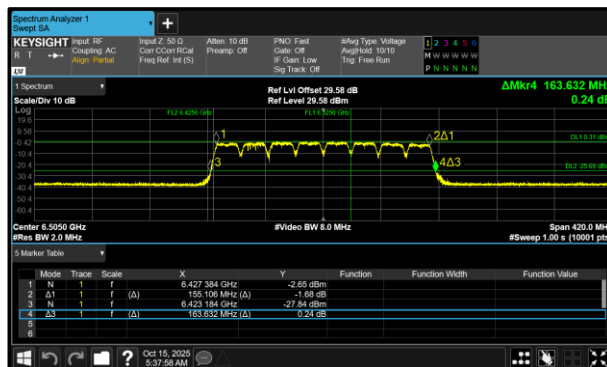


Figure 87 - 802.11a VLP (160 MHz) Minimum 99% OBW

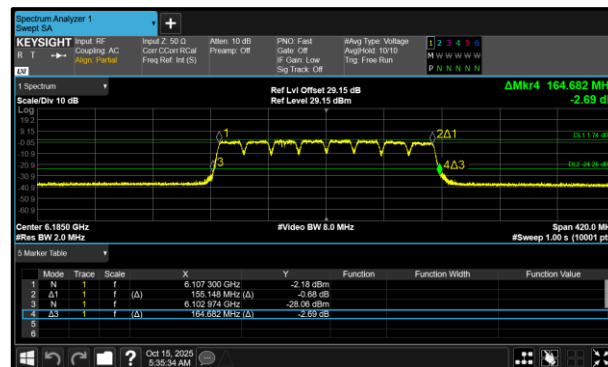


Figure 88 - 802.11a VLP (160 MHz) Maximum 99% OBW

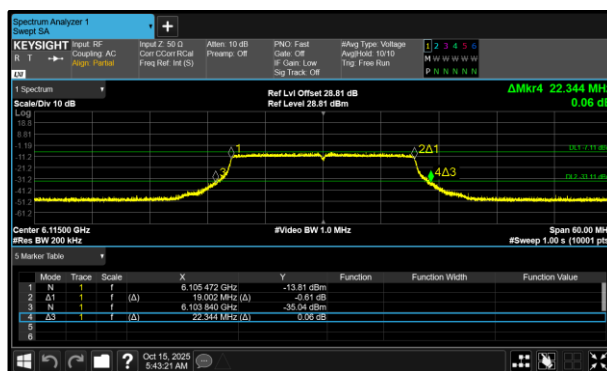


Figure 89 - 802.11ax HE20 SU VLP Minimum 99% OBW

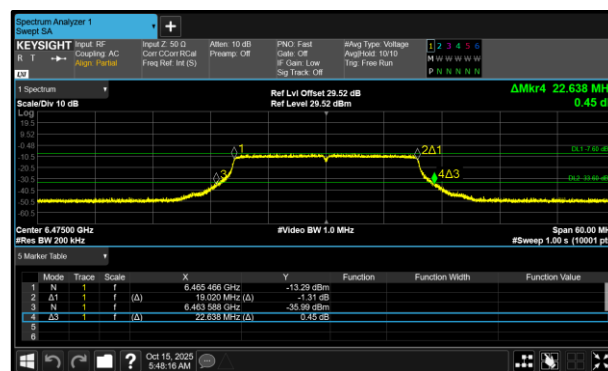


Figure 90 - 802.11ax HE20 SU VLP Maximum 99% OBW

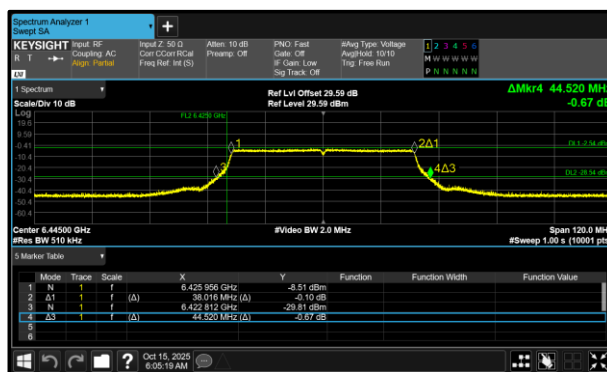


Figure 91 - 802.11ax HE40 SU VLP Minimum 99% OBW

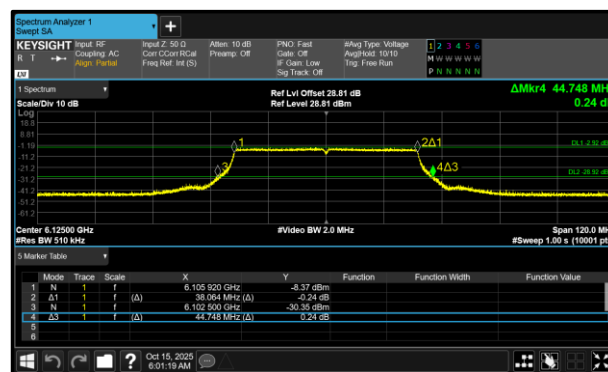


Figure 92 - 802.11ax HE40 SU VLP Maximum 99% OBW

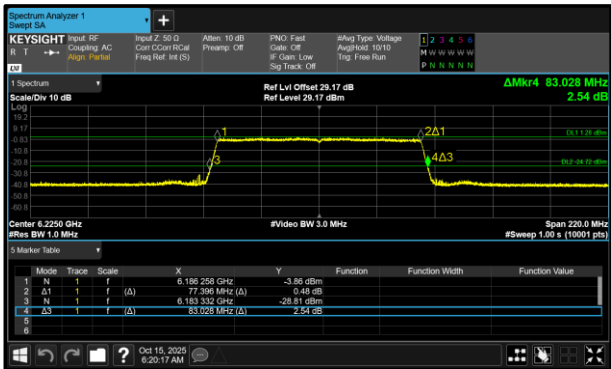


Figure 93 - 802.11ax HE80 SU VLP Minimum 99% OBW

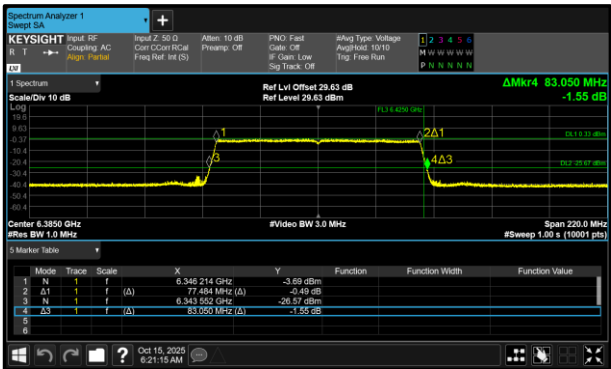


Figure 94 - 802.11ax HE80 SU VLP Maximum 99% OBW

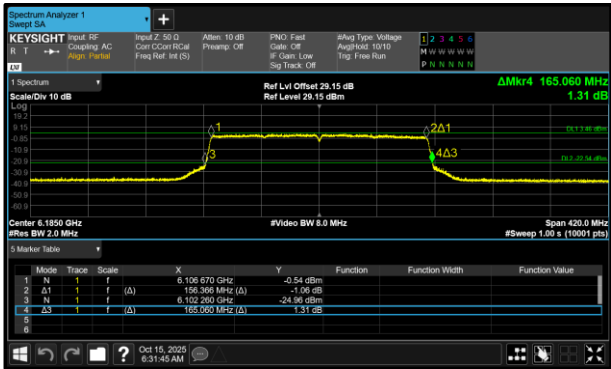


Figure 95 - 802.11ax HE160 SU VLP Minimum 99% OBW

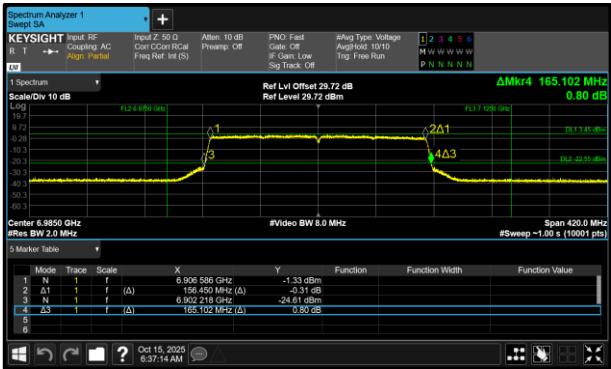


Figure 96 - 802.11ax HE160 SU VLP Maximum 99% OBW



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407(a) (11) RSS-248 4.4	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a LPI	Duty Cycle (%):	-
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0
Bandwidth:	20 MHz		

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (MHz)
	A	B	C	D	
5955	22.620	-	-	-	320.0
6175	22.698	-	-	-	320.0
6415	22.500	-	-	-	320.0
6435	22.488	-	-	-	320.0
6475	22.446	-	-	-	320.0
6515	22.668	-	-	-	320.0
6535	22.554	-	-	-	320.0
6695	22.296	-	-	-	320.0
6855	22.680	-	-	-	320.0
6875	22.698	-	-	-	320.0
6895	22.476	-	-	-	320.0
6995	22.578	-	-	-	320.0
7095	22.542	-	-	-	320.0
7115	21.258	-	-	-	320.0

Table 9 - 26 dB Bandwidth Results



Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (MHz)
	A	B	C	D	
5955	17.820	-	-	-	320.0
6175	17.814	-	-	-	320.0
6415	17.820	-	-	-	320.0
6435	17.820	-	-	-	320.0
6475	17.820	-	-	-	320.0
6515	17.820	-	-	-	320.0
6535	17.820	-	-	-	320.0
6695	17.826	-	-	-	320.0
6855	17.814	-	-	-	320.0
6875	17.820	-	-	-	320.0
6895	17.808	-	-	-	320.0
6995	17.832	-	-	-	320.0
7095	17.820	-	-	-	320.0
7115	17.586	-	-	-	320.0

Table 10 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407(a) (11) RSS-248 4.4	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a LPI	Duty Cycle (%):	-
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0
Bandwidth:	40 MHz		

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (MHz)
	A	B	C	D	
5965	43.320	-	-	-	320.0
6165	43.308	-	-	-	320.0
6405	43.488	-	-	-	320.0
6445	44.004	-	-	-	320.0
6485	43.788	-	-	-	320.0
6525	43.656	-	-	-	320.0
6565	43.068	-	-	-	320.0
6685	42.840	-	-	-	320.0
6845	43.416	-	-	-	320.0
6885	43.464	-	-	-	320.0
6925	43.440	-	-	-	320.0
7005	43.404	-	-	-	320.0
7085	43.008	-	-	-	320.0

Table 11 - 26 dB Bandwidth Results



Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (MHz)
	A	B	C	D	
5965	36.636	-	-	-	320.0
6165	36.636	-	-	-	320.0
6405	36.588	-	-	-	320.0
6445	36.540	-	-	-	320.0
6485	36.624	-	-	-	320.0
6525	36.600	-	-	-	320.0
6565	36.636	-	-	-	320.0
6685	36.588	-	-	-	320.0
6845	36.672	-	-	-	320.0
6885	36.576	-	-	-	320.0
6925	36.588	-	-	-	320.0
7005	36.648	-	-	-	320.0
7085	36.648	-	-	-	320.0

Table 12 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407(a) (11) RSS-248 4.4	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a LPI	Duty Cycle (%):	-
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0
Bandwidth:	80 MHz		

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (MHz)
	A	B	C	D	
5985	106.800	-	-	-	320.0
6145	111.462	-	-	-	320.0
6385	106.896	-	-	-	320.0
6465	109.584	-	-	-	320.0
6545	107.784	-	-	-	320.0
6625	108.168	-	-	-	320.0
6705	108.240	-	-	-	320.0
6785	111.648	-	-	-	320.0
6865	111.852	-	-	-	320.0
6945	110.630	-	-	-	320.0
7025	108.914	-	-	-	320.0

Table 13 - 26 dB Bandwidth Results



Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (MHz)
	A	B	C	D	
5985	76.344	-	-	-	320.0
6145	76.414	-	-	-	320.0
6385	76.344	-	-	-	320.0
6465	76.320	-	-	-	320.0
6545	76.344	-	-	-	320.0
6625	76.296	-	-	-	320.0
6705	76.392	-	-	-	320.0
6785	76.296	-	-	-	320.0
6865	76.388	-	-	-	320.0
6945	76.388	-	-	-	320.0
7025	76.310	-	-	-	320.0

Table 14 - 99% Bandwidth Results

Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407(a) (11) RSS-248 4.4	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a LPI	Duty Cycle (%):	-
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0
Bandwidth:	160 MHz		

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (MHz)
	A	B	C	D	
6025	163.716	-	-	-	320.0
6185	163.338	-	-	-	320.0
6345	163.464	-	-	-	320.0
6505	163.338	-	-	-	320.0
6665	163.758	-	-	-	320.0
6825	163.590	-	-	-	320.0
6985	163.674	-	-	-	320.0

Table 15 - 26 dB Bandwidth Results



Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (MHz)
	A	B	C	D	
6025	155.022	-	-	-	320.0
6185	155.064	-	-	-	320.0
6345	155.106	-	-	-	320.0
6505	155.064	-	-	-	320.0
6665	155.064	-	-	-	320.0
6825	155.106	-	-	-	320.0
6985	155.148	-	-	-	320.0

Table 16 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407(a) (11) RSS-248 4.4	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (MHz)
	A	B	C	D	
5955	23.052	-	-	-	320.0
6175	22.542	-	-	-	320.0
6415	22.188	-	-	-	320.0
6435	22.290	-	-	-	320.0
6475	22.164	-	-	-	320.0
6515	22.530	-	-	-	320.0
6535	22.380	-	-	-	320.0
6695	22.986	-	-	-	320.0
6855	22.386	-	-	-	320.0
6875	22.476	-	-	-	320.0
6895	22.518	-	-	-	320.0
6995	22.656	-	-	-	320.0
7095	22.428	-	-	-	320.0

Table 17 - 26 dB Bandwidth Results



Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (MHz)
	A	B	C	D	
5955	19.002	-	-	-	320.0
6175	18.990	-	-	-	320.0
6415	19.008	-	-	-	320.0
6435	19.008	-	-	-	320.0
6475	19.008	-	-	-	320.0
6515	18.990	-	-	-	320.0
6535	19.002	-	-	-	320.0
6695	19.002	-	-	-	320.0
6855	19.002	-	-	-	320.0
6875	19.008	-	-	-	320.0
6895	18.996	-	-	-	320.0
6995	18.996	-	-	-	320.0
7095	19.008	-	-	-	320.0

Table 18 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407(a) (11) RSS-248 4.4	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (MHz)
	A	B	C	D	
5965	44.568	-	-	-	320.0
6165	44.628	-	-	-	320.0
6405	44.664	-	-	-	320.0
6445	44.580	-	-	-	320.0
6485	44.808	-	-	-	320.0
6525	44.580	-	-	-	320.0
6565	45.324	-	-	-	320.0
6685	44.568	-	-	-	320.0
6845	44.472	-	-	-	320.0
6885	44.856	-	-	-	320.0
6925	45.396	-	-	-	320.0
7005	44.688	-	-	-	320.0
7085	44.532	-	-	-	320.0

Table 19 - 26 dB Bandwidth Results



Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (MHz)
	A	B	C	D	
5965	38.016	-	-	-	320.0
6165	38.016	-	-	-	320.0
6405	38.016	-	-	-	320.0
6445	38.016	-	-	-	320.0
6485	38.028	-	-	-	320.0
6525	38.028	-	-	-	320.0
6565	38.016	-	-	-	320.0
6685	38.016	-	-	-	320.0
6845	38.028	-	-	-	320.0
6885	38.016	-	-	-	320.0
6925	38.016	-	-	-	320.0
7005	38.004	-	-	-	320.0
7085	38.004	-	-	-	320.0

Table 20 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407(a) (11) RSS-248 4.4	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (MHz)
	A	B	C	D	
5985	82.720	-	-	-	320.0
6145	82.544	-	-	-	320.0
6385	82.720	-	-	-	320.0
6465	82.434	-	-	-	320.0
6545	82.610	-	-	-	320.0
6625	82.720	-	-	-	320.0
6705	82.764	-	-	-	320.0
6785	82.544	-	-	-	320.0
6865	82.742	-	-	-	320.0
6945	82.720	-	-	-	320.0
7025	82.500	-	-	-	320.0

Table 21 - 26 dB Bandwidth Results