

RADIO TEST REPORT

Test Report No. 15263628S-C-R2

Customer	Panasonic Automotive Systems Co., Ltd.
Description of EUT	Car AV Control Unit for CDC
Model Number of EUT	AM2301
FCC ID	ACJ932AM2301
Test Regulation	FCC Part 15 Subpart E
Test Result	Complied
Issue Date	January 29, 2025
Remarks	WLAN (5 GHz band) part

Representative Test EngineerMiku Ikudome
Engineer**Approved By**Shinichi Takano
Engineer

CERTIFICATE 1266.03

- ☐ The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan, Inc.
- ☒ There is no testing item of "Non-accreditation".

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REVISION HISTORY

Original Test Report No. 15263628S-C

This report is a revised version of 15263628S-C-R1. 15263628S-C-R1 is replaced with this report.

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	15263628S-C	December 20, 2024	-
1	15263628S-C-R1	January 27, 2025	P.15 Correction of position comment. From “-30, 0dg and -30 deg” To “-30, 0 deg. and +30 deg.”
			P.246 Correction of Frequency and Limit.
			P.264, 266, 268 Addition of Reference Plot for band-edge.
			P.276 Addition of Pre-Check Worst Case Position photos.
2	15263628S-C-R2	January 29, 2025	P.246 Correction of Ant. Fac and Loss of 5855 MHz Horizontal.

Reference: Abbreviations (Including words undescribed in this report)

A2LA	The American Association for Laboratory Accreditation	ICES	Interference-Causing Equipment Standard
AC	Alternating Current	IEC	International Electrotechnical Commission
AFH	Adaptive Frequency Hopping	IEEE	Institute of Electrical and Electronics Engineers
AM	Amplitude Modulation	IF	Intermediate Frequency
Amp, AMP	Amplifier	ILAC	International Laboratory Accreditation Conference
ANSI	American National Standards Institute	ISED	Innovation, Science and Economic Development Canada
Ant, ANT	Antenna	ISO	International Organization for Standardization
AP	Access Point	JAB	Japan Accreditation Board
ASK	Amplitude Shift Keying	LAN	Local Area Network
Atten., ATT	Attenuator	LIMS	Laboratory Information Management System
AV	Average	MCS	Modulation and Coding Scheme
BPSK	Binary Phase-Shift Keying	MRA	Mutual Recognition Arrangement
BR	Bluetooth Basic Rate	N/A	Not Applicable
BT	Bluetooth	NIST	National Institute of Standards and Technology
BT LE	Bluetooth Low Energy	NS	No signal detect.
BW	BandWidth	NSA	Normalized Site Attenuation
Cal Int	Calibration Interval	NVLAP	National Voluntary Laboratory Accreditation Program
CCK	Complementary Code Keying	OBW	Occupied Band Width
Ch., CH	Channel	OFDM	Orthogonal Frequency Division Multiplexing
CISPR	Comite International Special des Perturbations Radioelectriques	P/M	Power meter
CW	Continuous Wave	PCB	Printed Circuit Board
DBPSK	Differential BPSK	PER	Packet Error Rate
DC	Direct Current	PHY	Physical Layer
D-factor	Distance factor	PK	Peak
DFS	Dynamic Frequency Selection	PN	Pseudo random Noise
DQPSK	Differential QPSK	PRBS	Pseudo-Random Bit Sequence
DSSS	Direct Sequence Spread Spectrum	PSD	Power Spectral Density
EDR	Enhanced Data Rate	QAM	Quadrature Amplitude Modulation
EIRP, e.i.r.p.	Equivalent Isotropically Radiated Power	QP	Quasi-Peak
EMC	ElectroMagnetic Compatibility	QPSK	Quadri-Phase Shift Keying
EMI	ElectroMagnetic Interference	RBW	Resolution Band Width
EN	European Norm	RDS	Radio Data System
ERP, e.r.p.	Effective Radiated Power	RE	Radio Equipment
EU	European Union	RF	Radio Frequency
EUT	Equipment Under Test	RMS	Root Mean Square
Fac.	Factor	RSS	Radio Standards Specifications
FCC	Federal Communications Commission	Rx	Receiving
FHSS	Frequency Hopping Spread Spectrum	SA, S/A	Spectrum Analyzer
FM	Frequency Modulation	SG	Signal Generator
Freq.	Frequency	SVSWR	Site-Voltage Standing Wave Ratio
FSK	Frequency Shift Keying	TR	Test Receiver
GFSK	Gaussian Frequency-Shift Keying	Tx	Transmitting
GNSS	Global Navigation Satellite System	VBW	Video BandWidth
GPS	Global Positioning System	Vert.	Vertical
Hori.	Horizontal	WLAN	Wireless LAN

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SECTION 1: Customer Information

Company Name	Panasonic Automotive Systems Co., Ltd. ^{*1)}
Address	4261, Ikonobe-cho, Tsuzuki-ku, Yokohama-shi, Kanagawa-ken 224-8520, Japan
Telephone Number	+81-80-7194-8870
Contact Person	Minoru Osada

*1) The Grantee name in the FCC application is "Panasonic Corporation of North America".

The Information provided by the customer is as follows;

- Customer, Description of EUT, Model Number of EUT on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer Information
- SECTION 2: Equipment Under Test (EUT) other than the Receipt Date and Test Date
- SECTION 4: Operation of EUT during testing
- APPENDIX 4: Variant models list

SECTION 2: Equipment Under Test (EUT)

2.1 Identification of EUT

Description	Car AV Control Unit for CDC
Model Number	AM2301
Serial Number	Refer to SECTION 4.2
Condition	Engineering prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab
Receipt Date	For Antenna Terminal Conducted test: April 26, 2024 For Radiated Emission test: August 2, 2024
Test Date	May 10 to September 3, 2024

2.2 Product Description

General Specification

Rating	DC 13.2 V
Operating temperature	-30 deg. C to +60 deg. C

Radio Specification

This report contains data provided by the customer which can impact the validity of results. UL Japan, Inc. is only responsible for the validity of results after the integration of the data provided by the customer. The data provided by the customer is marked "a)" in the table below.

WLAN (IEEE802.11b/11g/11n-20/11ax-20)

Equipment Type	Transceiver	
Frequency of Operation	2412 MHz to 2462 MHz	
Type of Modulation	DSSS, OFDM OFDMA: (20 MHz band): 26/52/106/242-tone RU	
Antenna Gain ^{a)}	1st Antenna:	4.0 dBi
	2nd Antenna:	4.0 dBi

Bluetooth (BR / EDR / Low Energy)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	BT: FHSS (GFSK, $\pi/4$ DQPSK, 8 DPSK) BT LE: GFSK
Antenna Gain ^{a)}	4.0 dBi

WLAN (IEEE802.11a/11n-20/11ac-20/11ax-20/11n-40/11ac-40/11ax-40/11ac-80/11ax-80)

Equipment Type	Transceiver	
Frequency of Operation	20 MHz Band:	5745 MHz to 5825 MHz
	40 MHz Band:	5755 MHz to 5795 MHz
	80 MHz Band:	5775 MHz
Type of Modulation	OFDM, OFDMA	
	OFDMA (IEEE802.11ax only)	(20 MHz band): 26/52/106/242-tone RU
		(40 MHz band): 26/52/106/242/484-tone RU
		(80 MHz band): 26/52/106/242/484/996-tone RU
Antenna Gain ^{a)}	1st Antenna:	6.0 dBi
	2nd Antenna:	6.0 dBi

[FM]

Equipment Type	Receiver
Frequency of Operation	87.75 MHz to 107.9 MHz
Type of Modulation	FM
Antenna Connector Type	Car manufacturer original
Impedance	75 ohm

SECTION 3: Test specification, Procedures & Results

3.1 Test Specification

Test Specification	FCC Part 15 Subpart E The latest version on the first day of the testing period
Title	FCC 47 CFR Part 15 Radio Frequency Device Subpart E Unlicensed National Information Infrastructure Devices Section 15.407 General technical requirements

* Also the EUT complies with FCC Part 15 Subpart B.

3.2 Procedures and Results

Item	Test Procedure	Specification	Worst Margin	Results	Remarks
Conducted Emission	FCC: ANSI C63.10-2013 ISED: RSS-Gen 8.8	FCC: 15.407 (b) (6) / 15.207 ISED: RSS-Gen 8.8	-	N/A	*1)
26 dB Emission Bandwidth	FCC: KDB Publication Number 789033 ISED: -	FCC: 15.407 (a) (1) (2) (3) ISED: -	See data	N/A	*2)
Maximum Conducted Output Power	FCC: KDB Publication Number 789033 ISED: -	FCC: 15.407 (a) (1) (2) (3) ISED: RSS-247 6.2.1.1 6.2.2.1 6.2.3.1 6.2.4.2		Complied	Conducted
Maximum Power Spectral Density	FCC: KDB Publication Number 789033 ISED: -	FCC : 15.407 (a) (1) (2) (3) ISED: RSS-247 6.2.1.1 6.2.2.1 6.2.3.1 6.2.4.2		Complied	Conducted
Spurious Emission Restricted Band Edge	FCC: ANSI C63.10-2013 KDB Publication Number 789033 ISED: -	FCC: 15.407 (b), 15.205 and 15.209 ISED: RSS-247 6.2.1.2 6.2.2.2 6.2.3.2 6.2.4.3	9.0 dB 5925.000 MHz, PK, Hori. Mode: Tx 11ax-20 (OFDM) 5825 MHz with Tx, Hopping On	Complied	Conducted (< 30 MHz) / Radiated (> 30 MHz) *3)
6 dB Emission Bandwidth	FCC: ANSI C63.10-2013 ISED: -	FCC: 15.407 (e) ISED: RSS-247 6.2.4.2	See data	Complied	Conducted

Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.

* In case any questions arise about test procedure, ANSI C63.10: 2013 is also referred.

*1) The test is not applicable since the EUT does not have AC Mains.

*2) The test is not applicable since the EUT supported only U-NII-3 band.

*3) Radiated test was selected over 30 MHz based on FCC 15.407 (b) and KDB 789033 D02 G.3.b).

FCC Part 15.31 (e)

The EUT provides stable voltage constantly to the RF Part regardless of input voltage.

Instead of a new battery, DC power supply was used for the test. That does not affect the test result, therefore the EUT complies with the requirement.

FCC Part 15.203 Antenna requirement

The equipment and its antenna comply with the requirement since the antenna is built in the equipment and it cannot be replaced by end users. Therefore, the equipment complies with the antenna requirement of Section 15.203.

3.3 Addition to Standard

Item	Test Procedure	Specification	Worst Margin	Results	Remarks
99 % Occupied Band Width	ISED: RSS-Gen 6.7	ISED: -	N/A	-	Conducted

Other than above, no addition, exclusion nor deviation has been made from the standard.

3.4 Uncertainty

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

Note: When margins obtained from test results are less than the measurement uncertainty, the test results may exceed the limit.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k=2$.

Item	Frequency range	Uncertainty (+/-)
Conducted Emission (AC Mains) LISN	150 kHz to 30 MHz	3.2 dB
Radiated Emission (Measurement distance: 3 m)	9 kHz to 30 MHz	3.3 dB
	30 MHz to 200 MHz	4.9 dB
	200 MHz to 1 GHz	6.2 dB
	1 GHz to 6 GHz	4.7 dB
	6 GHz to 18 GHz	5.3 dB
	18 GHz to 40 GHz	5.5 dB
Radiated Emission (Measurement distance: 1 m)	1 GHz to 18 GHz	5.6 dB
	18 GHz to 40 GHz	5.8 dB

Antenna terminal test	Uncertainty (+/-)
Power Measurement above 1 GHz (Average Detector)	1.3 dB
Power Measurement above 1 GHz (Peak Detector)	1.8 dB
Spurious Emission (Conducted) below 1 GHz	0.91 dB
Conducted Emissions Power Density Measurement 1 GHz to 3 GHz	1.3 dB
Conducted Emissions Power Density Measurement 3 GHz to 18 GHz	2.5 dB
Spurious Emission (Conducted) 18 GHz to 26.5 GHz	2.8 dB
Spurious Emission (Conducted) 26.5 GHz to 40 GHz	2.6 dB
Bandwidth Measurement	0.012 %
Duty Cycle and Time Measurement	0.27 %
Temperature	2.2 deg.C.
Humidity	4.0 %
Voltage	0.74 %

3.5 Test Location

UL Japan, Inc. Shonan EMC Lab.

1-22-3, Megumigaoka, Hiratsuka-shi, Kanagawa-ken 259-1220 Japan

Telephone: +81-463-50-6400

A2LA Certificate Number: 1266.03

(FCC test firm registration number: 626366, ISED lab company number: 2973D / CAB identifier: JP0001)

Test room	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Maximum measurement distance
No.1 Semi-anechoic chamber (SAC1)	20.6 x 11.3 x 7.65	20.6 x 11.3	10 m
No.2 Semi-anechoic chamber (SAC2)	20.6 x 11.3 x 7.65	20.6 x 11.3	10 m
No.3 Semi-anechoic chamber (SAC3)	12.7 x 7.7 x 5.35	12.7 x 7.7	5 m
No.4 Semi-anechoic chamber (SAC4)	8.1 x 5.1 x 3.55	8.1 x 5.1	-
Wireless anechoic chamber 1 (WAC1)	9.5 x 6.0 x 5.4	9.5 x 6.0	3 m
Wireless anechoic chamber 2 (WAC2)	9.5 x 6.0 x 5.4	9.5 x 6.0	3 m
No.1 Shielded room	6.8 x 4.1 x 2.7	6.8 x 4.1	-
No.2 Shielded room	6.8 x 4.1 x 2.7	6.8 x 4.1	-
No.3 Shielded room	6.3 x 4.7 x 2.7	6.3 x 4.7	-
No.4 Shielded room	4.4 x 4.7 x 2.7	4.4 x 4.7	-
No.5 Shielded room	7.8 x 6.4 x 2.7	7.8 x 6.4	-
No.6 Shielded room	7.8 x 6.4 x 2.7	7.8 x 6.4	-
No.8 Shielded room	3.45 x 5.5 x 2.4	3.45 x 5.5	-
No.1 Measurement room	2.55 x 4.1 x 2.5	-	-
No.2 Measurement room	4.5 x 3.5 x 2.5	-	-
Wireless shielded room 1	3.0 x 4.5 x 2.7	3.0 x 4.5	-
Wireless shielded room 2	3.0 x 4.5 x 2.7	3.0 x 4.5	-

3.6 Test Data, Test Instruments, and Test Set Up

Refer to APPENDIX.

SECTION 4: Operation of EUT during testing

4.1 Operating Mode(s)

Mode	Remarks*
IEEE 802.11a (11a)	54 Mbps, PN9
IEEE 802.11n CDD 20 MHz BW (11n-20 CDD)	MCS 4, G.I. 800 ns, PN9
IEEE 802.11n SDM 20 MHz BW (11n-20 SDM)	MCS 10, G.I. 800 ns, PN9
IEEE 802.11ac CDD 20 MHz BW (11ac-20 CDD)	MCS 8, 1SS, G.I. 800 ns, PN9
IEEE 802.11ac SDM 20 MHz BW (11ac-20 SDM)	MCS 8, 2SS, G.I. 800 ns, PN9
IEEE 802.11ax CDD 20 MHz BW (11ax-20 CDD)	MCS 10, 1SS, G.I. 3200 ns, PN9
IEEE 802.11ax SDM 20 MHz BW (11ax-20 SDM)	MCS 11, 2SS, G.I. 3200 ns, PN9
IEEE 802.11n CDD 40 MHz BW (11n-40 CDD)	MCS 6, G.I. 800 ns, PN9
IEEE 802.11n SDM 40 MHz BW (11n-40 SDM)	MCS 14, G.I. 800 ns, PN9
IEEE 802.11ac CDD 40 MHz BW (11ac-40 CDD)	MCS 7, 1SS, G.I. 800 ns, PN9
IEEE 802.11ac SDM 40 MHz BW (11ac-40 SDM)	MCS 7, 2SS, G.I. 800 ns, PN9
IEEE 802.11ax CDD 40 MHz BW (11ax-40 CDD)	MCS 6, 1SS, G.I. 3200 ns, PN9
IEEE 802.11ax SDM 40 MHz BW (11ax-40 SDM)	MCS 5, 2SS, G.I. 3200 ns, PN9
IEEE 802.11ac CDD 80 MHz BW (11ac-80 CDD)	MCS 5, 1SS, G.I. 800 ns, PN9
IEEE 802.11ac SDM 80 MHz BW (11ac-80 SDM)	MCS 4, 2SS, G.I. 800 ns, PN9
IEEE 802.11ax CDD 80 MHz BW (11ax-80 CDD)	MCS 9, 1SS, G.I. 3200 ns, PN9
IEEE 802.11ax SDM 80 MHz BW (11ax-80 SDM)	MCS 5, 2SS, G.I. 3200 ns, PN9
*The worst antenna (2nd) and condition was determined based on the test result of Maximum Conducted Output Power.	
*For the 11n, 11ac and 11ax, all test items except for Maximum Conducted Output Power were tested on CDD as a representative, because it had the highest power at Maximum Conducted Output Power.	
*Power of the EUT was set by the software as follows; Power Setting: See the below table Software: mcdc_wifi_5g_serial Version: 2 (Date: 2024.05.10, Storage location: Driven by connected PC) mcdc_ofdma_5g_serial Version: 1 (Date: 2024.04.26, Storage location: Driven by connected PC)	
*This setting of software is the worst case. Any conditions under the normal use do not exceed the condition of setting. In addition, end users cannot change the settings of the output power of the product.	
Test operating mode was determined as follows according to "Section 1 of 6 802.11 a/b/g/n testing - Managing Complex Regulatory Approvals - " of TCB Council Workshop October 2009 and also was judged the necessity of 802.11ac/ax mode by the pre-test.	

Power Setting:

		20 MHz BW	40 MHz BW	80 MHz BW
OFDM		3.5	3.0	2.5
OFDMA	26-tone RU	2.5	2.5	2.5
	52-tone RU	2.5	2.5	2.5
	106-tone RU	2.5	2.5	2.5
	242-tone RU	2.5	2.5	2.5
	484-tone RU	-	2.5	2.5
	996-tone RU	-	-	2.5

*The Details of Operation Mode(s)

Test Item	Operating Mode	Tested Antenna	Tested Frequency
			U-NII-3 Band
99 % Occupied Bandwidth, 6 dB Bandwidth	Tx 11a , Tx 11n-20, Tx 11ac-20, Tx 11ax-20 (OFDM), Tx 11ax-20 (OFDMA)	2nd *2)	5745 MHz 5785 MHz 5825 MHz
	Tx 11n-40, Tx 11ac-40, Tx 11ax-40 (OFDM), Tx 11ax-40 (OFDMA)		5755 MHz 5795 MHz
	Tx 11ac-80, Tx 11ax-80 (OFDM), Tx 11ax-80 (OFDMA)		5775 MHz
Maximum Conducted Output Power, Maximum Power Spectral Density	Tx 11a , Tx 11n-20, Tx 11ac-20, Tx 11ax-20 (OFDM), Tx 11ax-20 (OFDMA)	1st + 2nd	5745 MHz 5785 MHz 5825 MHz
	Tx 11n-40, Tx 11ac-40, Tx 11ax-40 (OFDM), Tx 11ax-40 (OFDMA)		5755 MHz 5795 MHz
	Tx 11ac-80, Tx 11ax-80 (OFDM), Tx 11ax-80 (OFDMA)		5775 MHz
Radiated Spurious Emission (Below 1 GHz)	Tx 11ax-20 (OFDM) *1)	1st + 2nd	5825 MHz
	Tx 11ax-20 (OFDM) with Tx 11ax-20 (OFDM) 2412 MHz		
	Tx 11ax-20 (OFDM) with Tx 3DH5, Hopping On		
	Tx 11ax-20 (OFDM) with Tx, BT LE 2M-PHY 2402 MHz		
Radiated Spurious Emission (Above 1 GHz)	Tx 11ax-20 (OFDM)	1st + 2nd	5745 MHz 5785 MHz 5825 MHz
	Tx 11ax-40 (OFDM)		5755 MHz 5795 MHz
	Tx 11ax-80 (OFDM)		5775 MHz
	Tx 11ax-20 (OFDM) with Tx 11ax-20 (OFDM) 2412 MHz		5825 MHz
	Tx 11ax-20 (OFDM) with Tx 3DH5, Hopping On		
	Tx 11ax-20 (OFDM) with Tx, BT LE 2M-PHY 2402 MHz		
Radiated Spurious Emission (Band edge)	Tx 11ax-20 (OFDMA) *3)	1st + 2nd	5745 MHz 5825 MHz
	Tx 11ax-40 (OFDMA) *3)		5755 MHz 5795 MHz
	Tx 11ax-80 (OFDMA) *3)		5775 MHz
Conducted Spurious Emission	Tx 11ax-20 (OFDM) *1)	2nd *2)	5825 MHz
*1) Spurious emissions for frequencies below 1 GHz were limited to the channel that had the highest power during the antenna terminal test, as preliminary testing indicated that changing the operating frequency had no significant impact on the emissions in those frequency bands. *2) The test was performed with the antenna that had higher power as a representative. *3) OFDMA configuration tests were conducted only at the band edge since preliminary testing indicated that the other spurious emission was lower than OFDM.			

4.2 Configuration and Peripherals

This page has been submitted for separate exhibit (refer to APPENDIX 4).

SECTION 5: Radiated Spurious Emission and Band Edge Compliance

Test Procedure

< Below 1 GHz >

EUT was placed on a urethane platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

< Above 1 GHz >

EUT was placed on a urethane platform of nominal size, 0.5 m by 0.5 m, raised 1.5 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with absorbent materials lined on a ground plane. Test antenna was aimed at the EUT for receiving the maximum signal and always kept within the illumination area of the 3 dB beamwidth of the antenna.

The height of the measuring antenna varied between 1 m and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field strength.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer.

The measurements were made with the following detector function of the test receiver and the Spectrum analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

< Below 1 GHz >

The result also satisfied with the general limits specified in section 15.209 (a).

< Above 1 GHz >

Inside of restricted bands (Section 15.205):

Apply to limit in the Section 15.209 (a).

Outside of the restricted bands:

Apply to limit 68.2 dBuV/m, 3 m (-27 dBm e.i.r.p.*) in the Section 15.407 (b) (1) (2) (3).

For U-NII-3 band Bandedge

-27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge in the section 15.407(b)(4)(i).

Restricted band edge:

Apply to limit in the Section 15.209 (a).

Since this limit is severer than the limit of the inside of restricted bands.

*Electric field strength to e.i.r.p. conversion:

$$E = \frac{1000000\sqrt{30P}}{3} \text{ (uV/m)} \quad : P \text{ is the e.i.r.p. (Watts)}$$

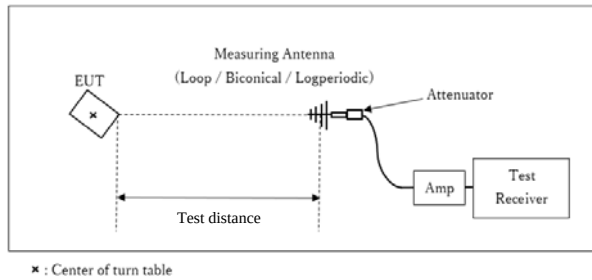
Test Antennas are used as below;

Frequency	30 MHz to 200 MHz	200 MHz to 1 GHz	Above 1 GHz
Antenna Type	Biconical	Logperiodic	Horn

Frequency	Below 1 GHz	Above 1 GHz	
Instrument Used	Test Receiver	Spectrum Analyzer	
Detector	QP	Peak	Average
IF Bandwidth	BW: 120 kHz	RBW: 1 MHz VBW: 3 MHz	Method VB RBW: 1 MHz VBW: 1/T (T: burst length, refer to Burst rate confirmation sheet) Detector: Peak

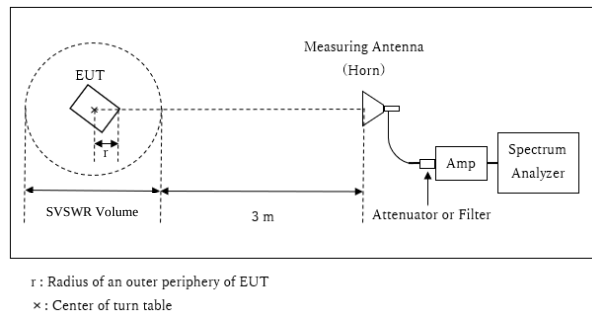
Figure 2: Test Setup

Below 1 GHz



Test Distance: 3 m

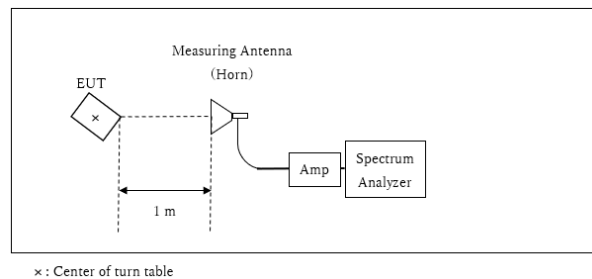
1 GHz to 10 GHz



Distance Factor: $20 \times \log (3.89 \text{ m} / 3.0 \text{ m}) = 2.26 \text{ dB}$
* Test Distance: $(3 + \text{SVSWR Volume} / 2) - r = 3.89 \text{ m}$

SVSWR Volume : 2.0 m
(SVSWR Volume has been calibrated based on CISPR 16-1-4.)
 $r = 0.11 \text{ m}$

10 GHz to 40 GHz



Distance Factor: $20 \times \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$
*Test Distance: 1 m

The carrier level and noise levels were confirmed at each position of -30, 0 deg, and +30 deg. of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

Test Range	Horizontal	Vertical
Below 1 GHz	0 deg.	0 deg.
1 GHz to 2.8 GHz	-30 deg.	-30 deg.
2.8 GHz to 10 GHz	-30 deg.	-30 deg.
10 GHz to 18 GHz	0 deg.	0 deg.
18 GHz to 26.5 GHz	+30 deg.	+30 deg.
26.5 GHz to 40 GHz	0 deg.	0 deg.

Test results are rounded off and limit are rounded down, so some differences might be observed.

Measurement Range : 30 MHz to 40 GHz
Test Data : APPENDIX
Test Result : Pass

SECTION 6: Antenna Terminal Conducted Tests

Test Procedure

The tests were made with below setting connected to the antenna port.

Test	Span	RBW	VBW	Sweep time	Detector	Trace	Instrument used and Test method
99 % Occupied Bandwidth *1)	Enough width to display emission skirts	1 % to 5 % of OBW	≥ 3 RBW	Auto	Peak	Max Hold	Spectrum Analyzer
6 dB Bandwidth	Enough to capture the emission	100 kHz	300 kHz	Auto	Peak	Max Hold	Spectrum Analyzer
Maximum Conducted Output Power	-	-	-	Auto	Average	-	Power Meter (Sensor: 160 MHz BW) (Method PM-G)
Maximum Power Spectral Density	Encompass the entire EBW	470 kHz *2)	≥ 3 RBW	Auto	RMS Power Averaging (100 times)	Clear Write	Spectrum Analyzer
Conducted Spurious Emission*3) *4)	9 kHz to 150 kHz	200 Hz	620 Hz	Auto	Peak	Max Hold	Spectrum Analyzer
	150 kHz to 30 MHz	10 kHz	30 kHz				

*1) Peak hold was applied as Worst-case measurement.

*2) KDB 789033 D02 says that RBW is set to be 500 kHz for 5.725 GHz to 5.850 GHz, but it is not possible with spectrum analyzer, so RBW Correction Factor ($10 \log(500 \text{ kHz} / 470 \text{ kHz})$) was added to the test result.

*3) In the frequency range below 30 MHz, RBW was narrowed to separate the noise contents. Then, wide-band noise near the limit was checked separately, however the noise was not detected as shown in the chart. (9 kHz to 150 kHz: RBW = 200 Hz, 150 kHz to 30 MHz: RBW = 10 kHz)

*4) The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ohms. For example, the measurement at frequency 9 kHz resulted in a level of 45.5 dBuV/m, which is equivalent to $45.5 - 51.5 = -6.0$ dBuA/m, which has the same margin, 3 dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

Test results are rounded off and limit are rounded down, so some differences might be observed.
The equipment and cables were not used for factor 0 dB of the data sheets.

Test Data : APPENDIX
Test Result : Pass

APPENDIX 1: Test Data

99 % Occupied Bandwidth

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
May 28, 2024
26 deg. C / 48 % RH
Shiro Kobayashi
Tx

11a

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5745	16583.0
5785	16554.0
5825	16569.0

11n-20 CDD

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5745	17796.0
5785	17793.0
5825	17799.0

11ac-20 CDD

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5745	17752.0
5785	17758.0
5825	17762.0

11ax-20(OFDM) CDD

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5745	19085.0
5785	19074.0
5825	19082.0

99 % Occupied Bandwidth

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
May 28, 2024
26 deg. C / 48 % RH
Shiro Kobayashi
Tx

11ax-20(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
26-tone RU	5745	0	18293.0
		4	17162.0
		8	18313.0
	5785	0	18296.0
		4	17178.0
		8	18322.0
	5825	0	18282.0
		4	17175.0
		8	18321.0

11ax-20(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
52-tone RU	5745	37	18210.0
		38	17236.0
		40	18266.0
	5785	37	18212.0
		38	17229.0
		40	18255.0
	5825	37	18208.0
		38	17217.0
		40	18251.0

99 % Occupied Bandwidth

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
May 28, 2024
26 deg. C / 48 % RH
Shiro Kobayashi
Tx

11ax-20(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
106-tone RU	5745	53	18255.0
		54	18214.0
	5785	53	18250.0
		54	18263.0
	5825	53	18244.0
		54	18231.0

11ax-20(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
242-tone RU	5745	61	19054.0
	5785	61	19059.0
	5825	61	19052.0

99 % Occupied Bandwidth

Test place	Shonan EMC Lab. No.5 Shielded Room
Date	May 28, 2024
Temperature / Humidity	26 deg. C / 48 % RH
Engineer	Shiro Kobayashi
Mode	Tx

11n-40 CDD

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5755	36592.0
5795	36585.0

11ac-40 CDD

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5755	36588.0
5795	36556.0

11ax-40(OFDM) CDD

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5755	38061.0
5795	38058.0

99 % Occupied Bandwidth

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
May 28, 2024
26 deg. C / 48 % RH
Shiro Kobayashi
Tx

11ax-40(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
26-tone RU	5755	0	37881.0
		8	36483.0
		17	38254.0
	5795	0	37886.0
		8	36473.0
		17	38300.0

11ax-40(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
52-tone RU	5755	37	37550.0
		40	36336.0
		44	37653.0
	5795	37	37548.0
		40	36305.0
		44	37723.0

11ax-40(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
106-tone RU	5755	53	37372.0
		54	36397.0
		56	37442.0
	5795	53	37332.0
		54	36379.0
		56	37482.0

99 % Occupied Bandwidth

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
May 28, 2024
26 deg. C / 48 % RH
Shiro Kobayashi
Tx

11ax-40(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
242-tone RU	5755	61	37416.0
		62	37482.0
	5795	61	37383.0
		62	37472.0

11ax-40(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
484-tone RU	5755	65	38000.0
	5795	65	37989.0

99 % Occupied Bandwidth

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
May 28, 2024
26 deg. C / 48 % RH
Shiro Kobayashi
Tx

11ac-80 CDD

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5775	76367.0

11ax-80(OFDM) CDD

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5775	77711.0

11ax-80(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
26-tone RU	5775	0	78372.0
		18	75008.0
		36	79065.0

11ax-80(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
52-tone RU	5775	37	77836.0
		44	74980.0
		52	78085.0

11ax-80(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
106-tone RU	5775	53	77247.0
		56	75124.0
		60	77248.0

99 % Occupied Bandwidth

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
May 28, 2024
26 deg. C / 48 % RH
Shiro Kobayashi
Tx

11ax-80(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
242-tone RU	5775	61	76996.0
		62	75099.0
		64	77069.0

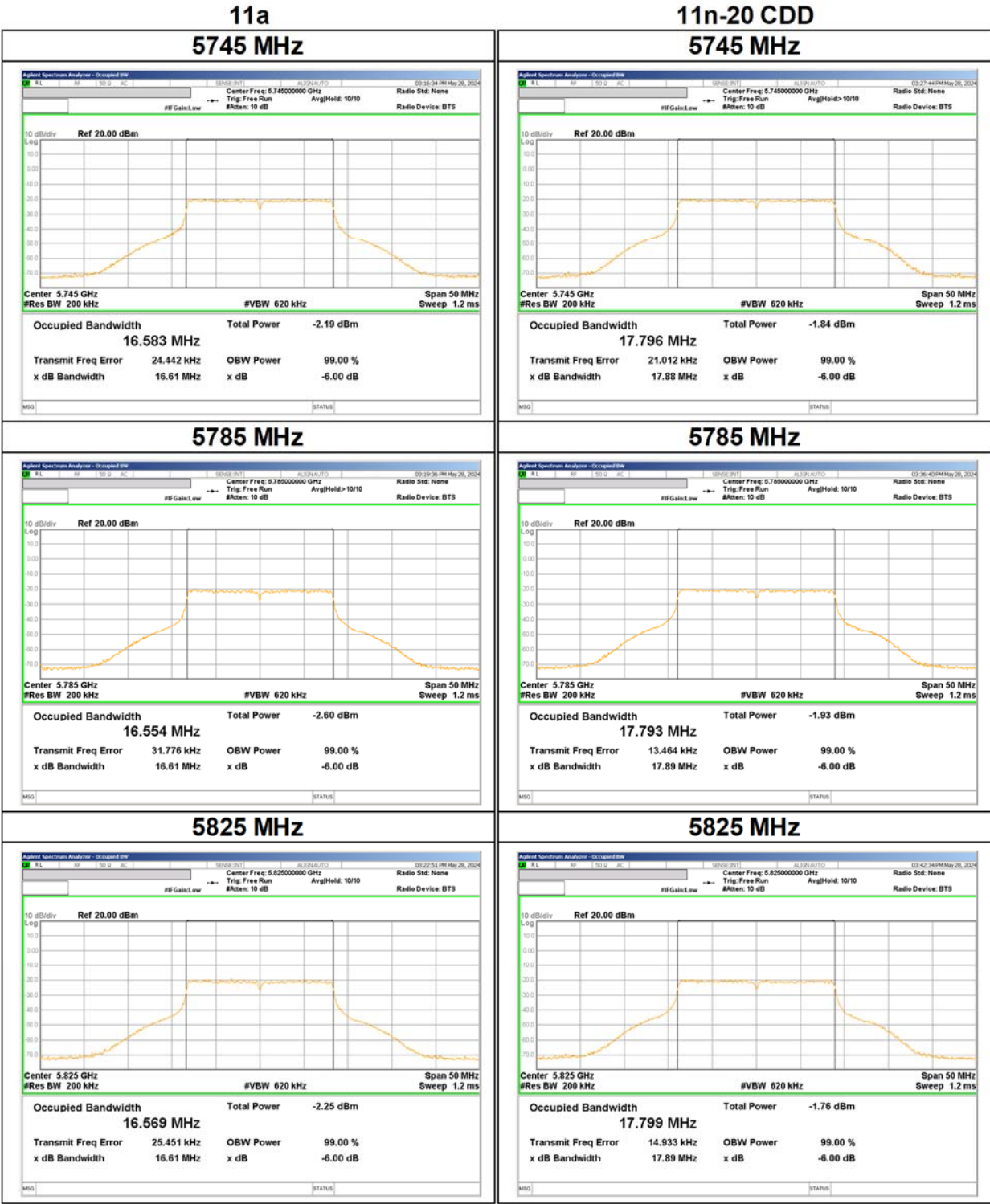
11ax-80(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
484-tone RU	5775	65	76566.0
		66	76898.0

11ax-80(OFDMA) CDD

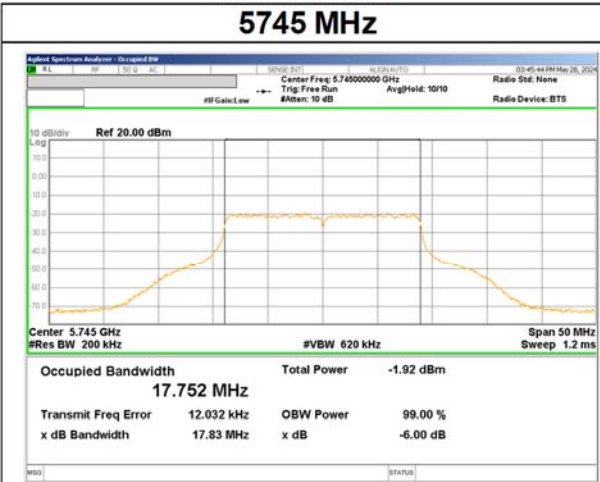
RU Type	Tested Frequency [MHz]	RU Index	99 % Occupied Bandwidth [kHz]
996-tone RU	5775	67	77649.0

99 % Occupied Bandwidth

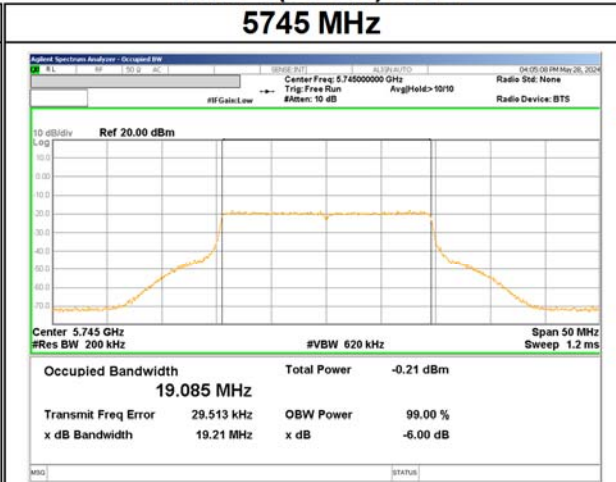


99 % Occupied Bandwidth

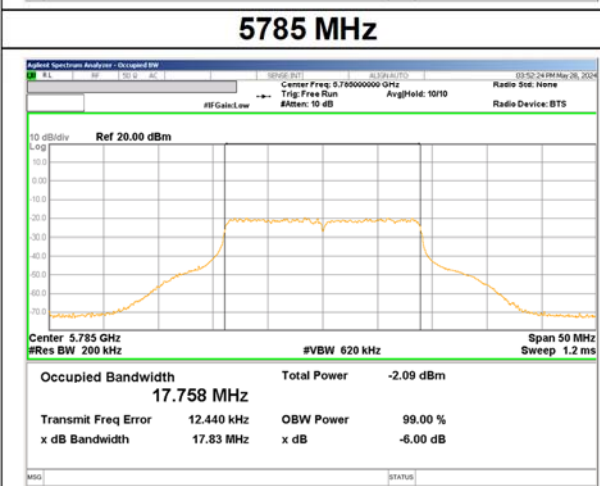
11ac-20 CDD
5745 MHz



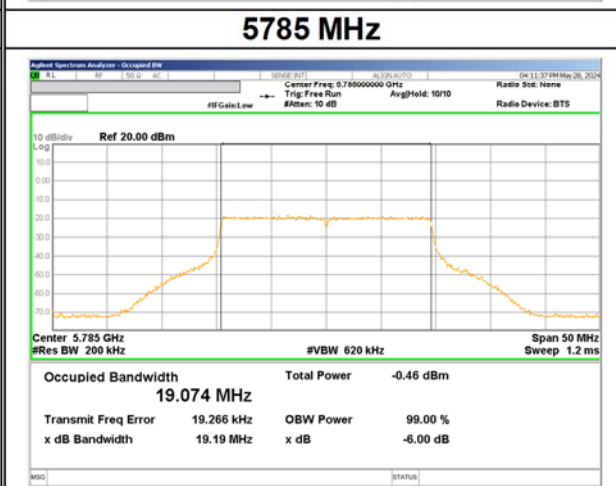
11ax-20(OFDM) CDD
5745 MHz



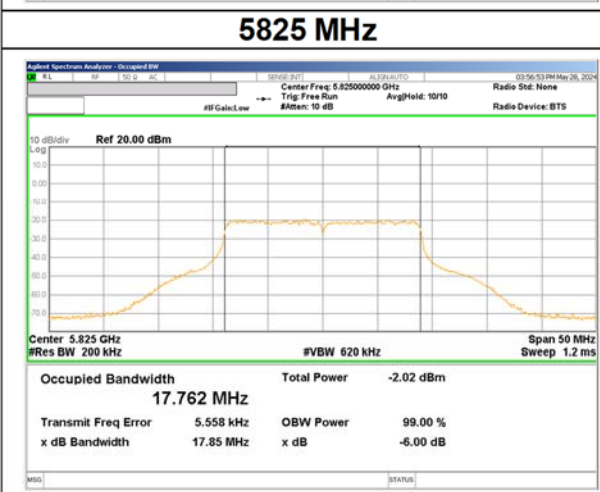
5785 MHz



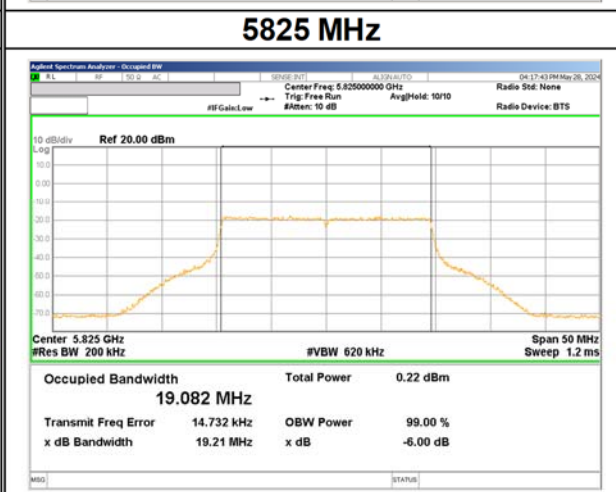
5785 MHz



5825 MHz

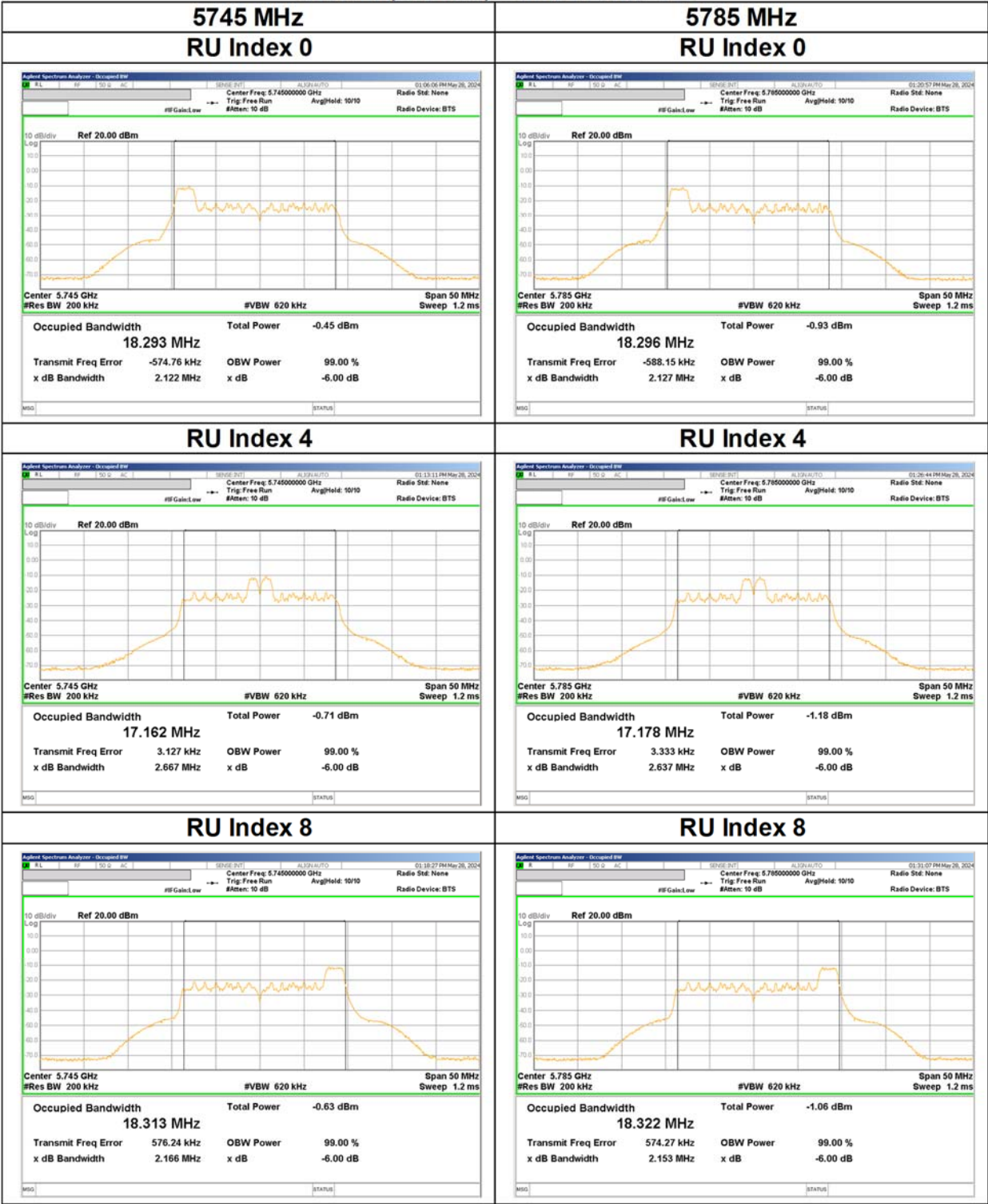


5825 MHz



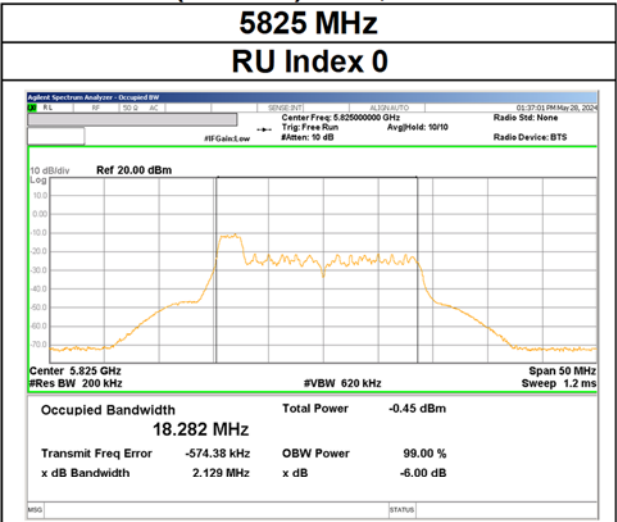
99 % Occupied Bandwidth

11ax-20(OFDMA) CDD, 26-tone RU

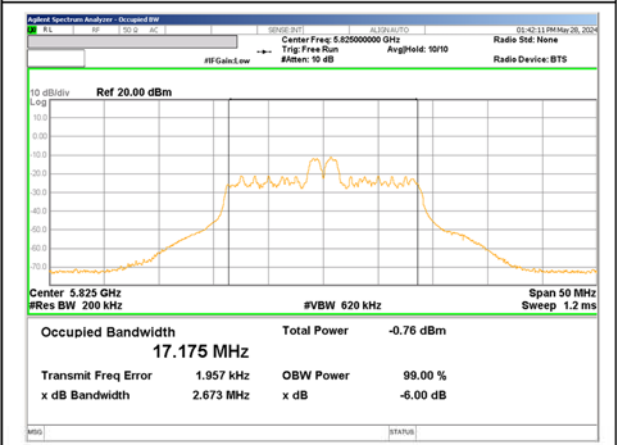


99 % Occupied Bandwidth

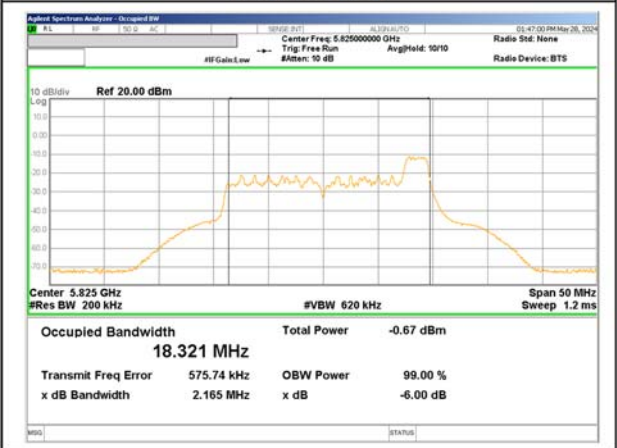
11ax-20(OFDMA) CDD, 26-tone RU
5825 MHz
RU Index 0



RU Index 4

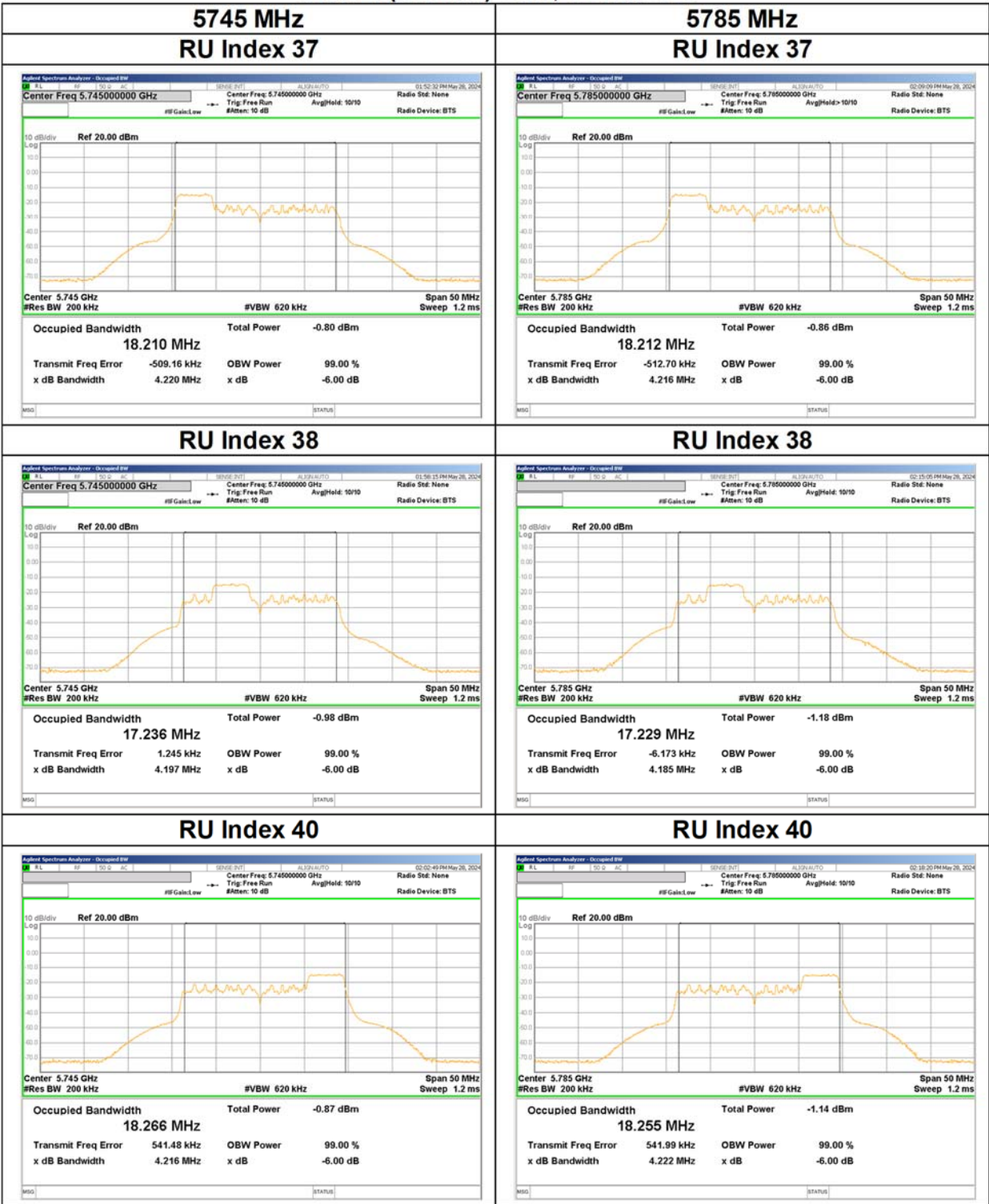


RU Index 8



99 % Occupied Bandwidth

11ax-20(OFDMA) CDD, 52-tone RU

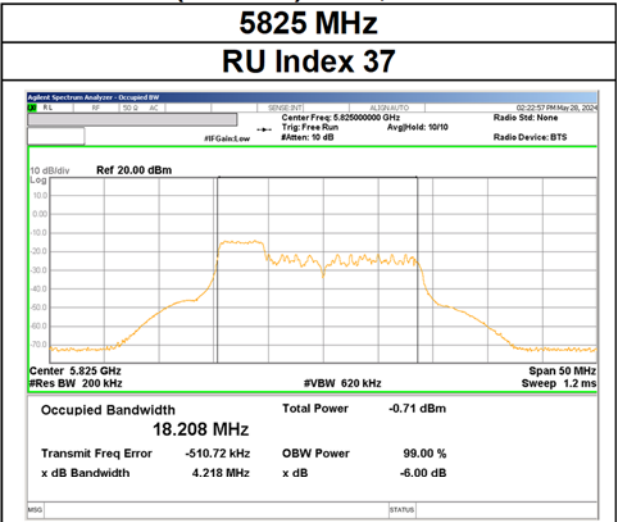


99 % Occupied Bandwidth

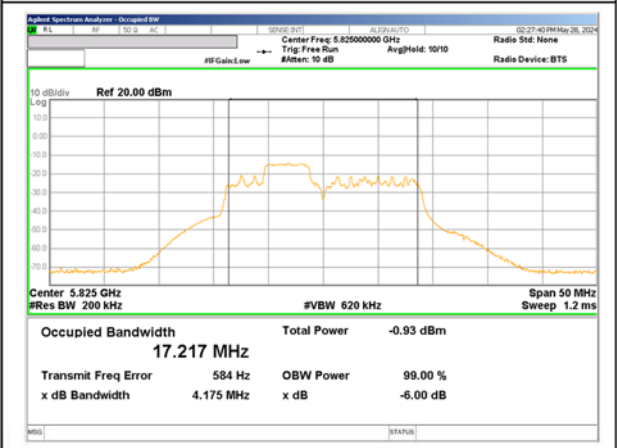
11ax-20(OFDMA) CDD, 52-tone RU

5825 MHz

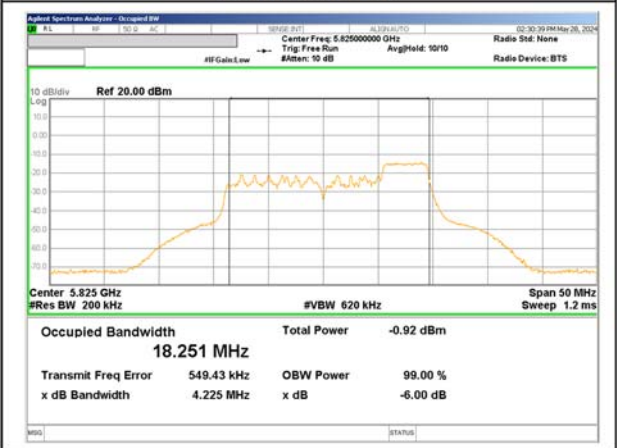
RU Index 37



RU Index 38

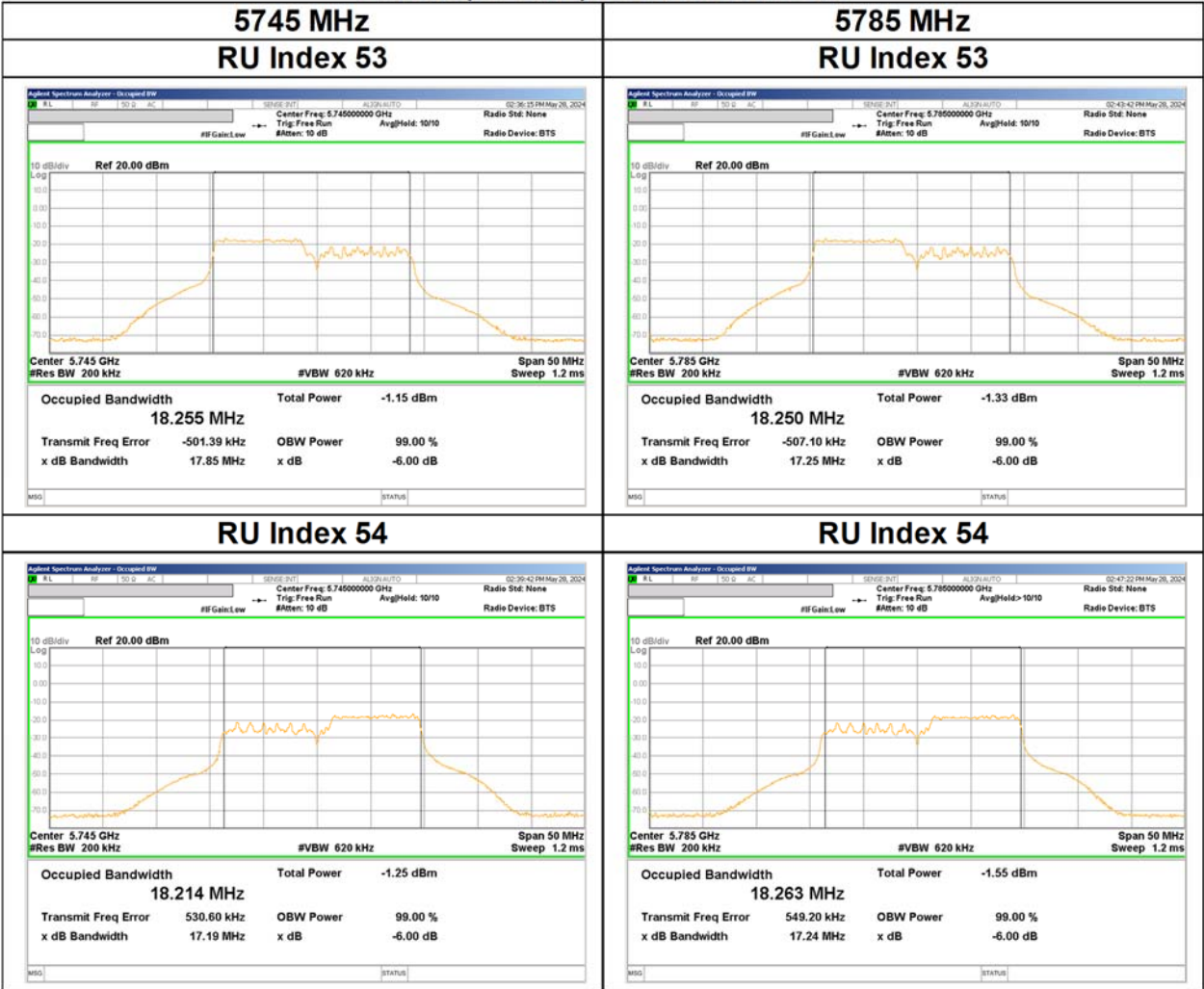


RU Index 40



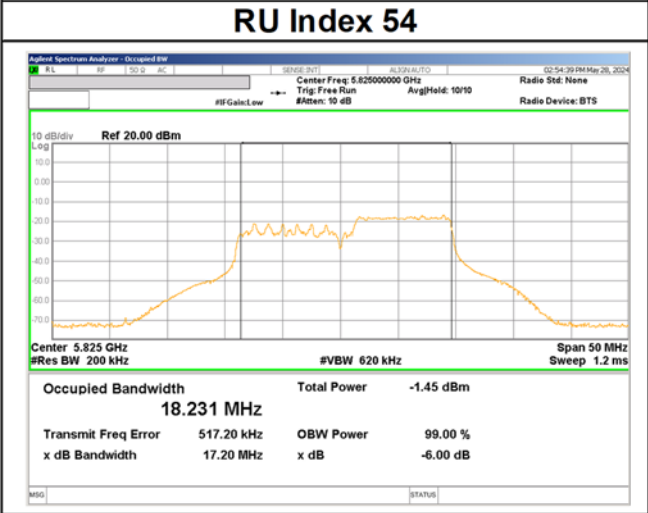
99 % Occupied Bandwidth

11ax-20(OFDMA) CDD, 106-tone RU

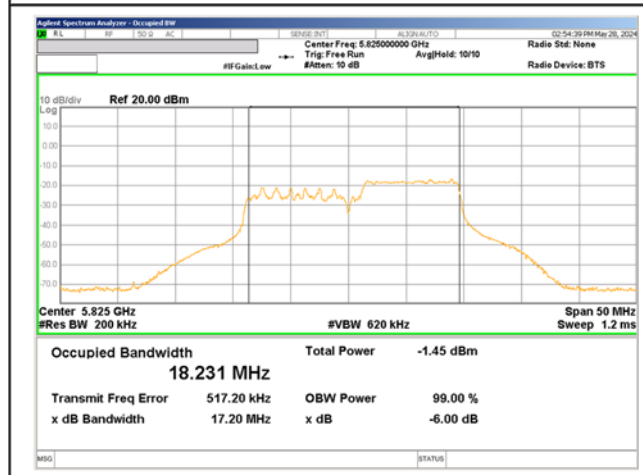


11ax-20(OFDMA) CDD, 106-tone RU

RU Index 53



RU Index 54

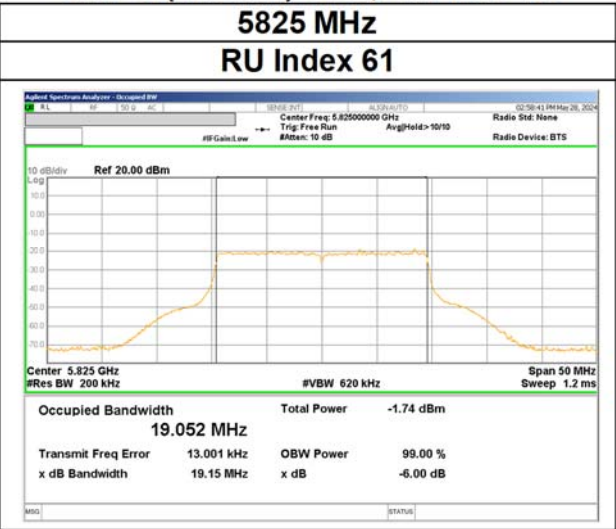


99 % Occupied Bandwidth

11ax-20(OFDMA) CDD, 242-tone RU

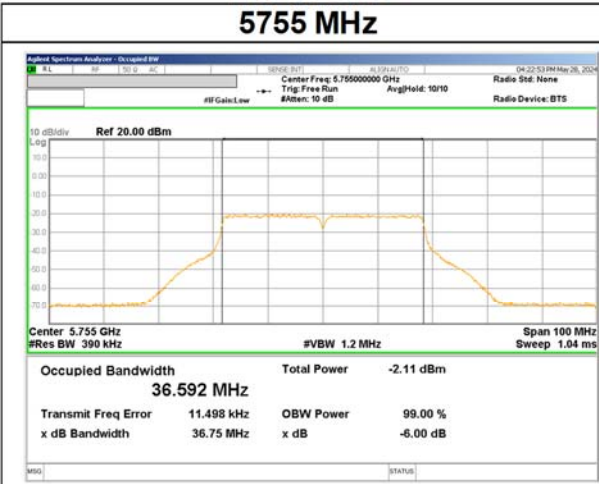


11ax-20(OFDMA) CDD, 242-tone RU

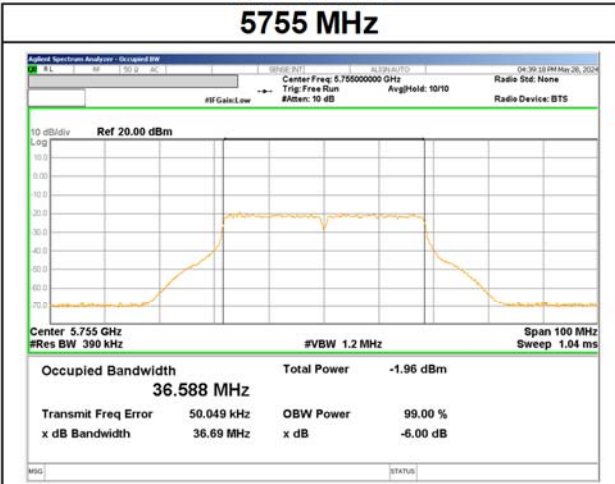


99 % Occupied Bandwidth

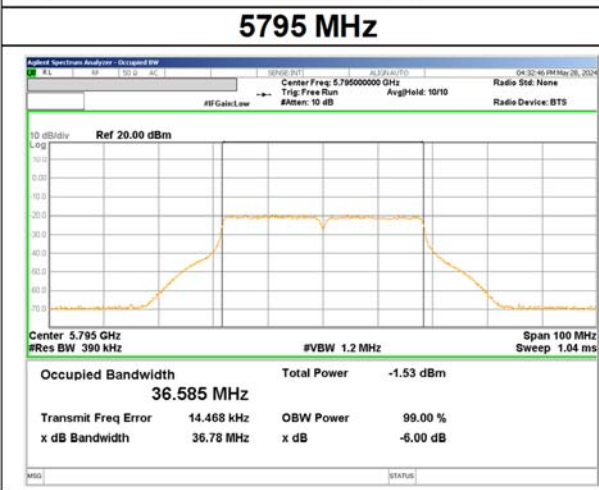
11n-40 CDD
5755 MHz



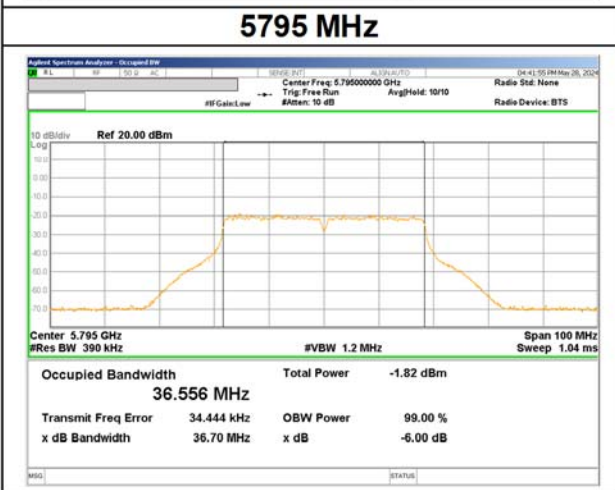
11ac-40 CDD
5755 MHz



5795 MHz

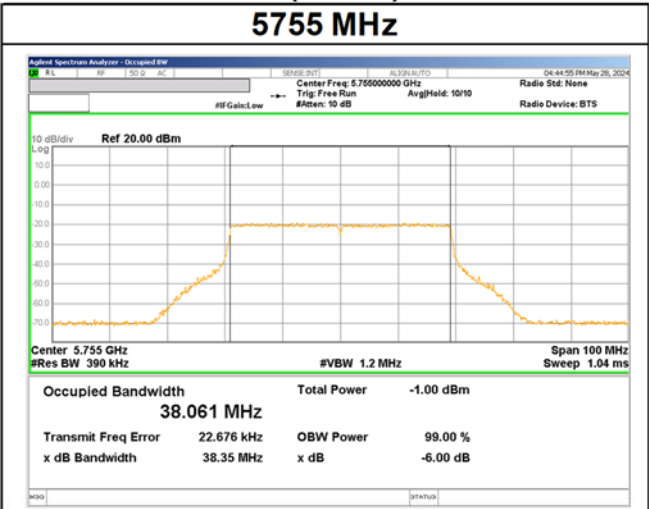


5795 MHz



99 % Occupied Bandwidth

11ax-40(OFDM) CDD
5755 MHz

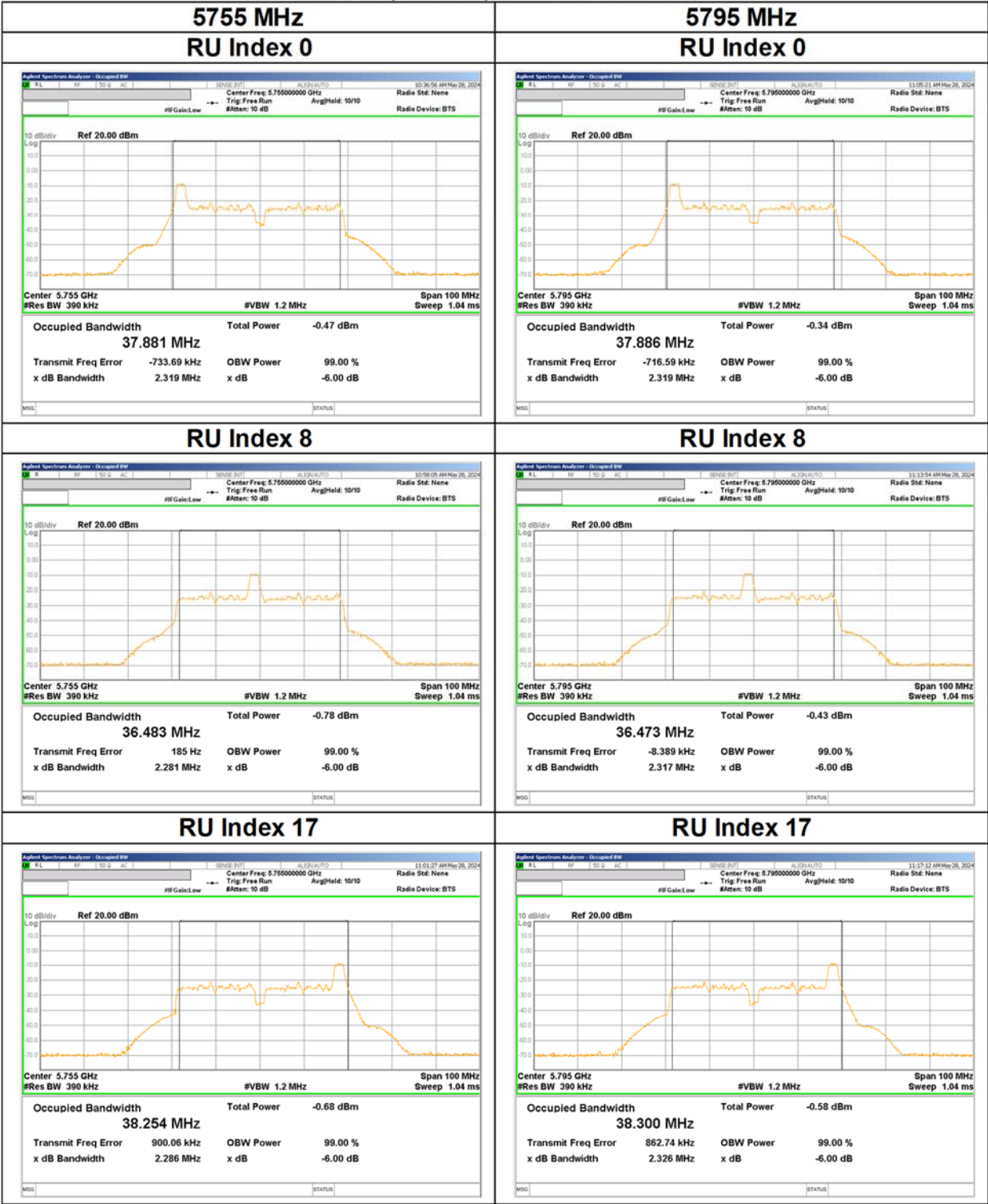


5795 MHz



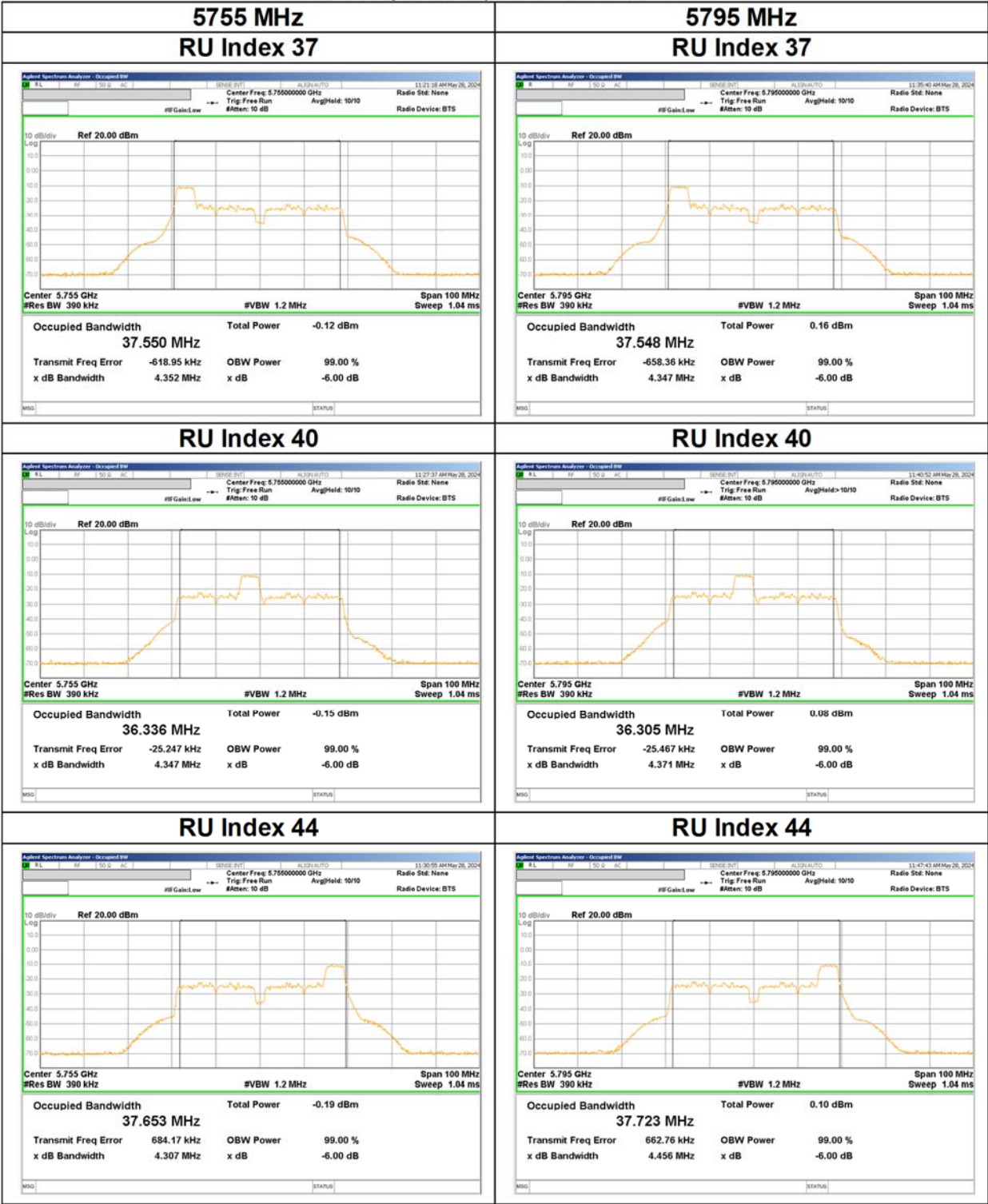
99 % Occupied Bandwidth

11ax-40(OFDMA) CDD, 26-tone RU



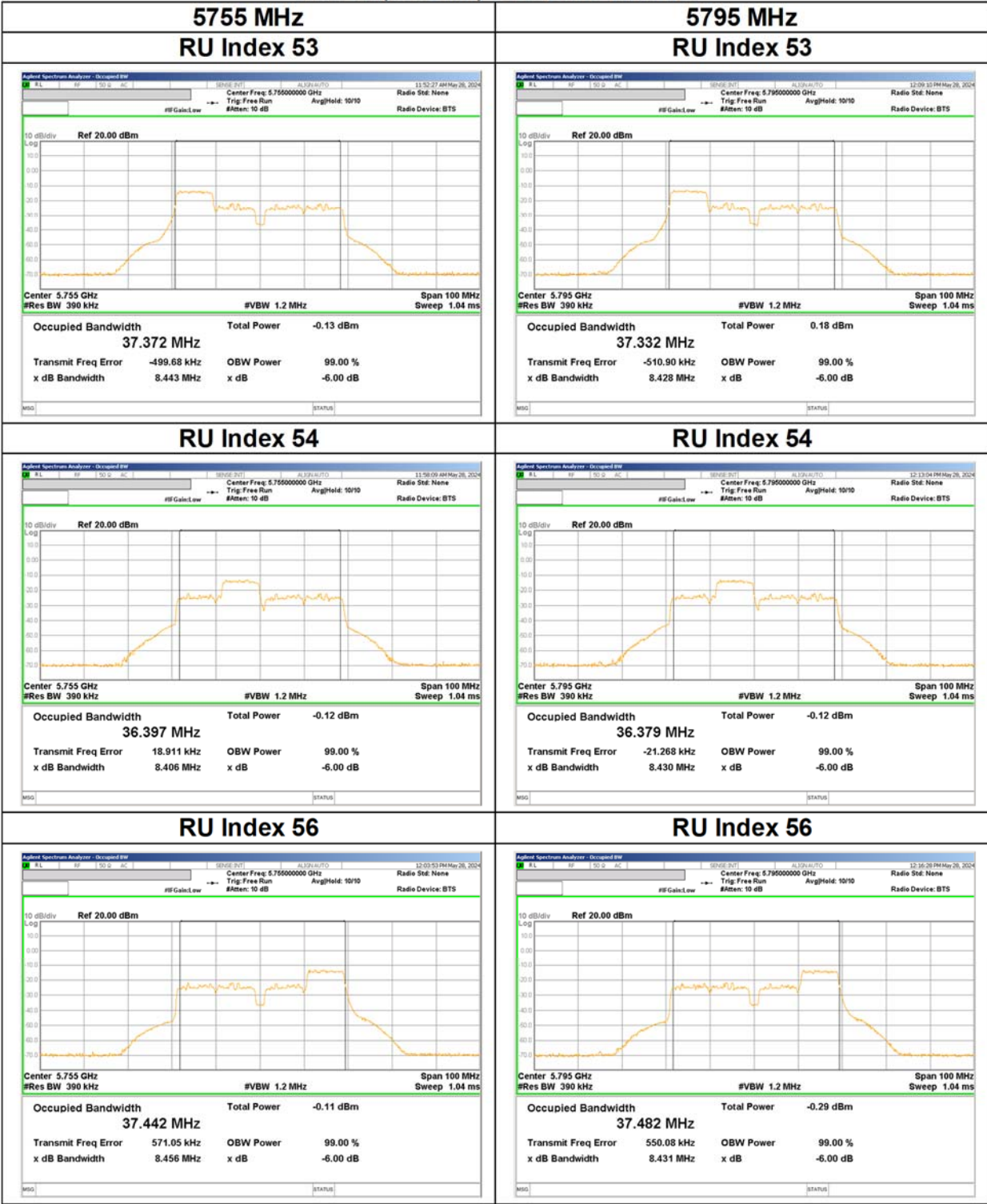
99 % Occupied Bandwidth

11ax-40(OFDMA) CDD, 52-tone RU



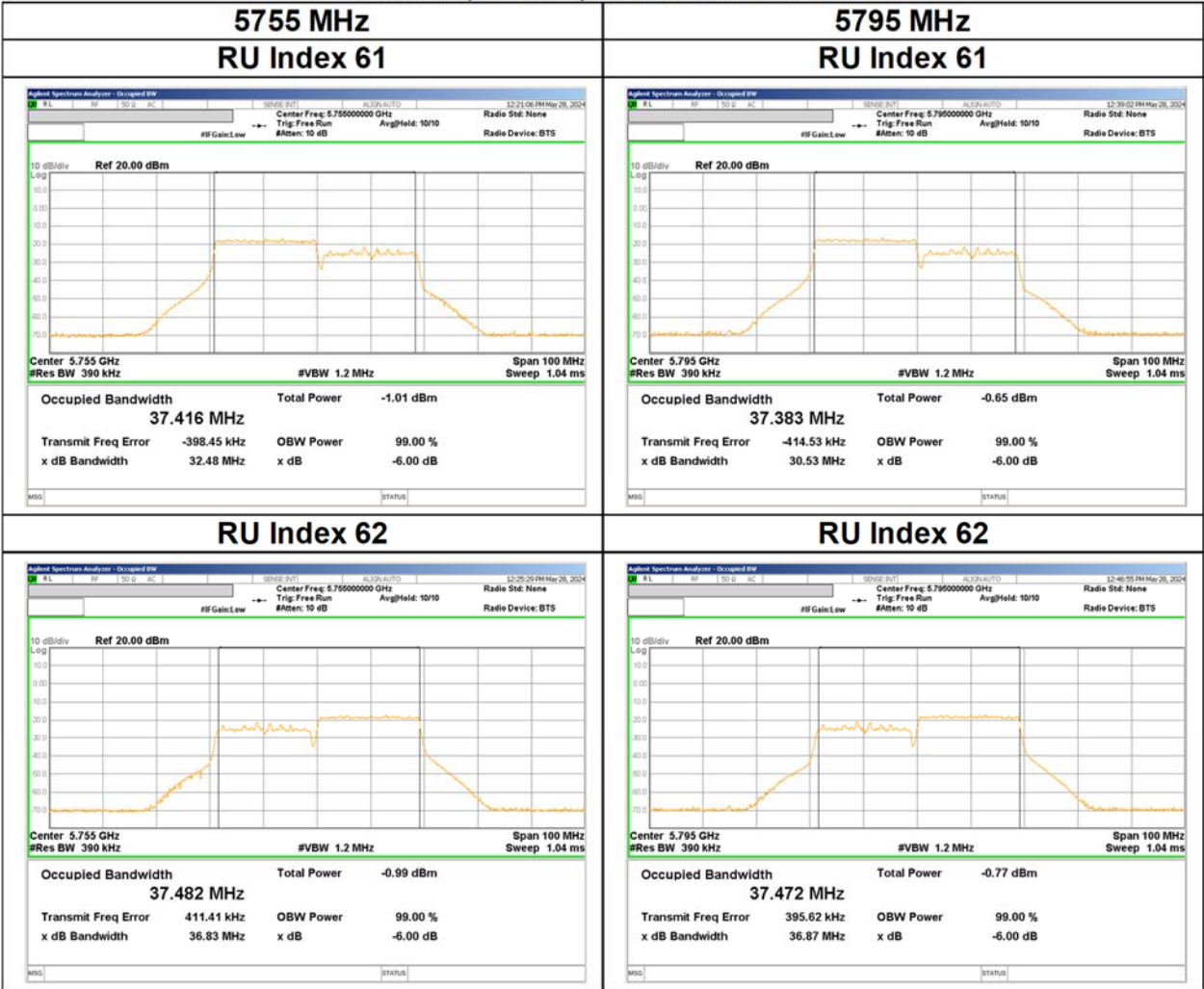
99 % Occupied Bandwidth

11ax-40(OFDMA) CDD, 106-tone RU

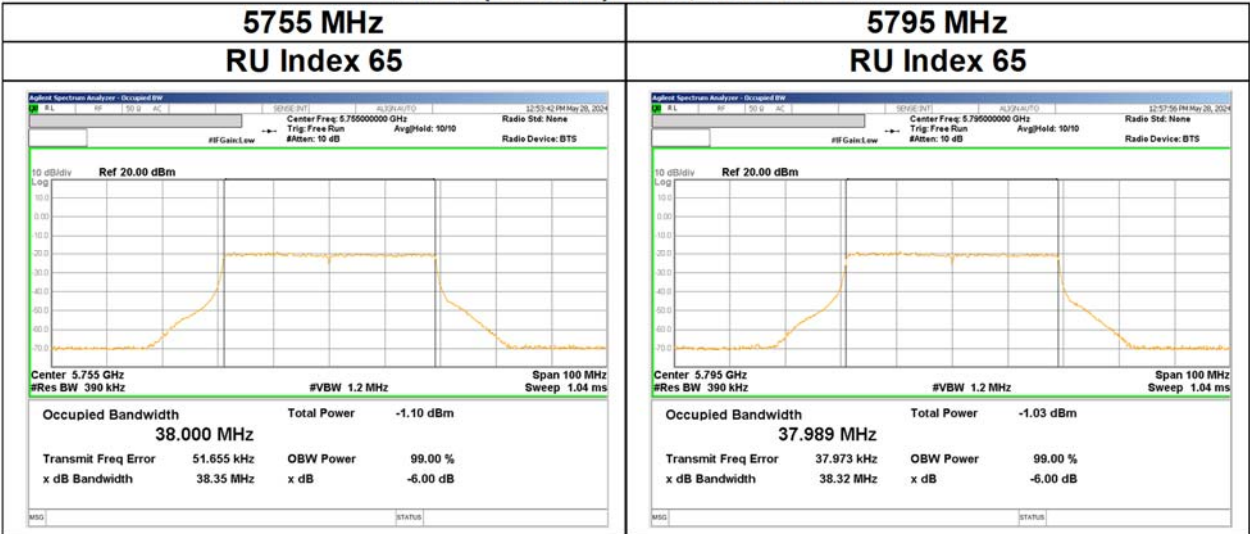


99 % Occupied Bandwidth

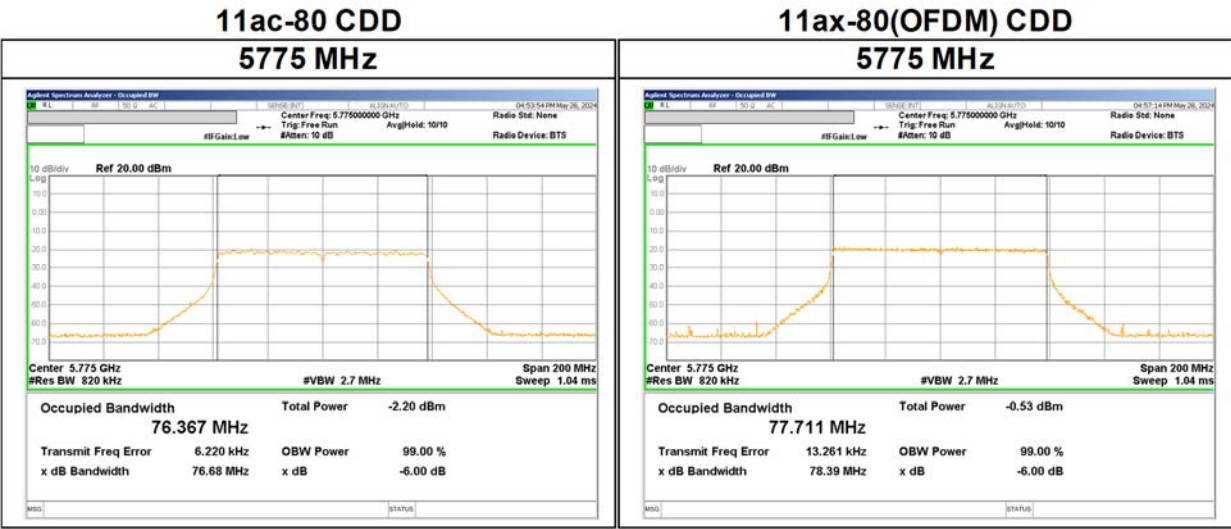
11ax-40(OFDMA) CDD, 242-tone RU



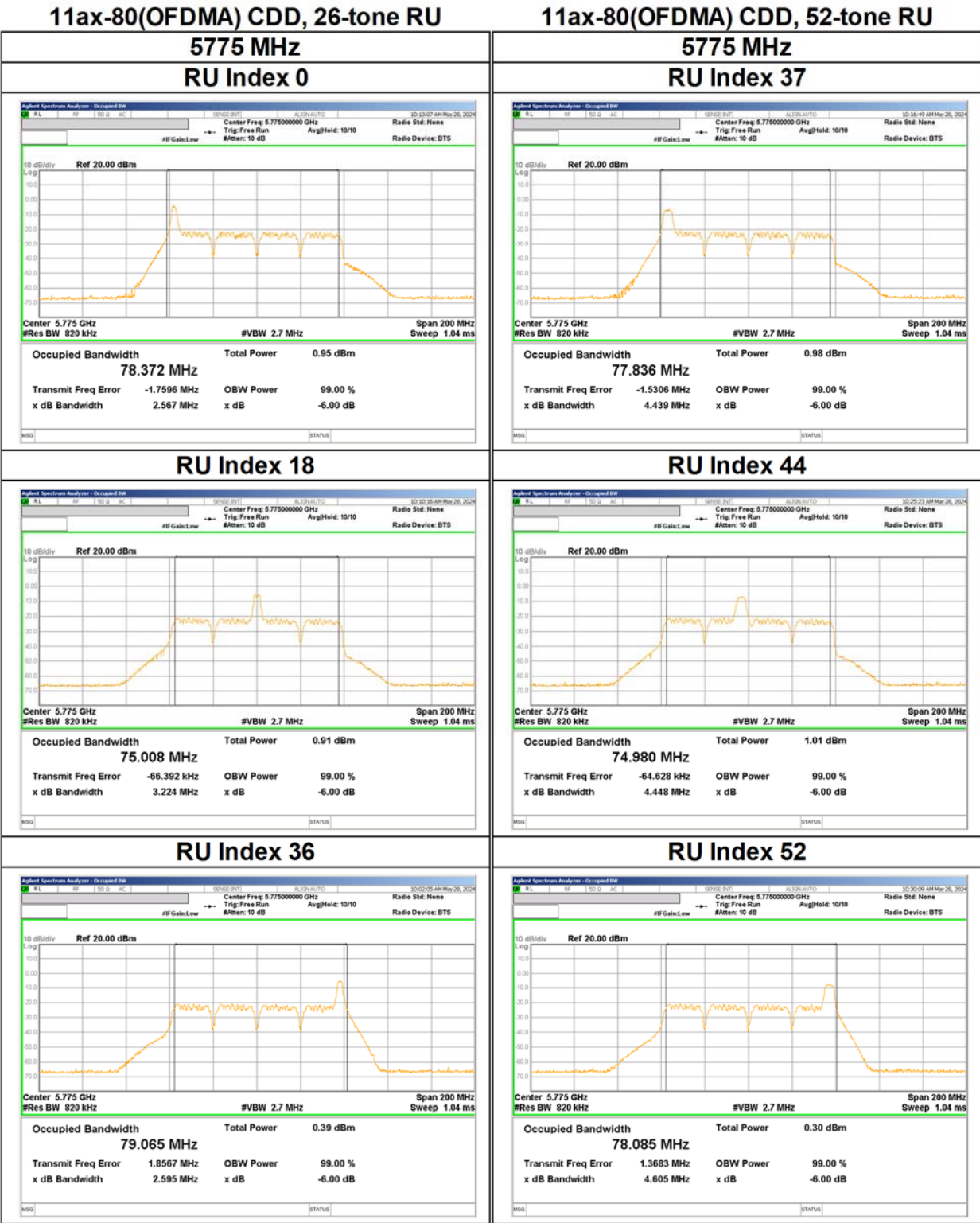
11ax-40(OFDMA) CDD, 484-tone RU



99 % Occupied Bandwidth

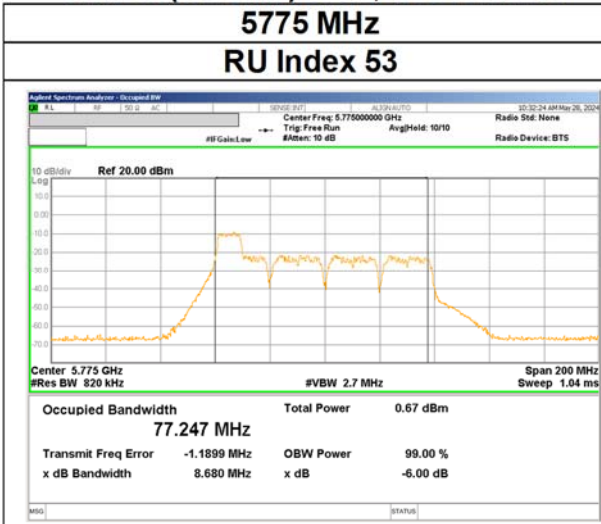


99 % Occupied Bandwidth

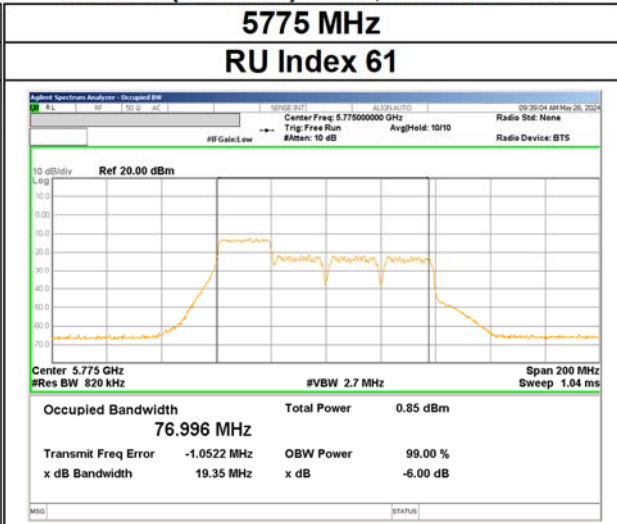


99 % Occupied Bandwidth

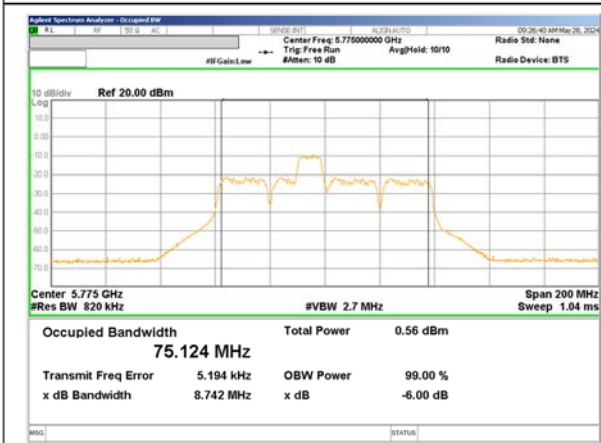
11ax-80(OFDMA) CDD, 106-tone RU



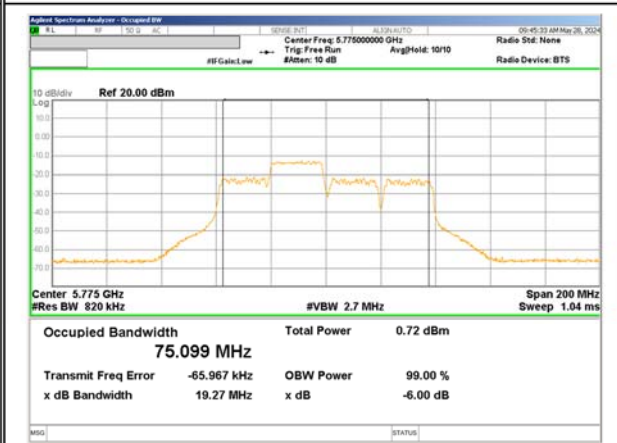
11ax-80(OFDMA) CDD, 242-tone RU



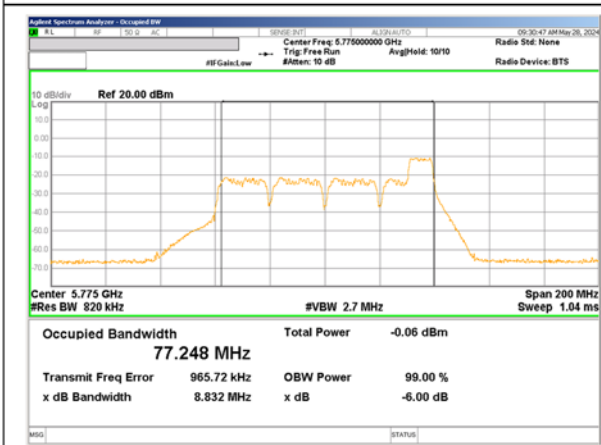
RU Index 56



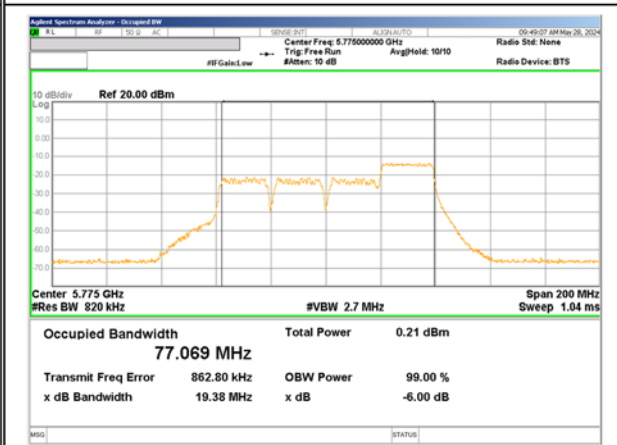
RU Index 62



RU Index 60

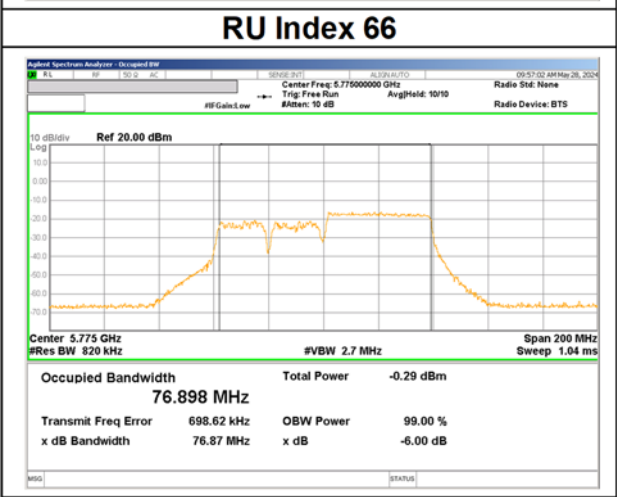
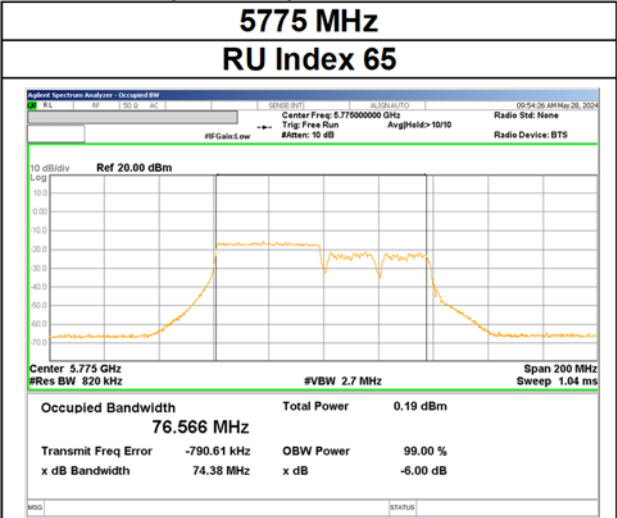


RU Index 64

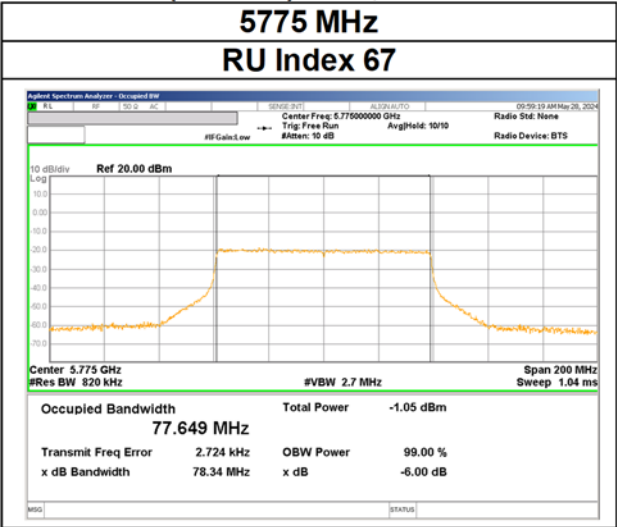


99 % Occupied Bandwidth

11ax-80(OFDMA) CDD, 484-tone RU



11ax-80(OFDMA) CDD, 996-tone RU



6 dB Bandwidth

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
May 22, 2024
26 deg. C / 41 % RH
Takayuki Kobayashi
Tx

May 23, 2024
26 deg. C / 32 % RH
Takayuki Kobayashi

11a

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	16.527	> 0.500
5785	16.496	> 0.500
5825	16.509	> 0.500

11n-20 CDD

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	17.760	> 0.500
5785	17.783	> 0.500
5825	17.773	> 0.500

11ac-20 CDD

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	17.762	> 0.500
5785	17.745	> 0.500
5825	17.764	> 0.500

11ax-20(OFDM) CDD

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	19.145	> 0.500
5785	19.151	> 0.500
5825	19.163	> 0.500

6 dB Bandwidth

Test place	Shonan EMC Lab. No.5 Shielded Room
Date	May 23, 2024
Temperature / Humidity	26 deg. C / 32 % RH
Engineer	Takayuki Kobayashi
Mode	Tx

11ax-20(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
26-tone RU	5745	0	2.052	> 0.500
		4	2.612	> 0.500
		8	2.070	> 0.500
	5785	0	2.056	> 0.500
		4	2.609	> 0.500
		8	2.045	> 0.500
	5825	0	2.056	> 0.500
		4	2.623	> 0.500
		8	2.066	> 0.500

11ax-20(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
52-tone RU	5745	37	4.105	> 0.500
		38	4.041	> 0.500
		40	4.052	> 0.500
	5785	37	4.078	> 0.500
		38	4.119	> 0.500
		40	4.068	> 0.500
	5825	37	4.087	> 0.500
		38	4.117	> 0.500
		40	4.071	> 0.500

6 dB Bandwidth

Test place Shonan EMC Lab. No.5 Shielded Room
Date May 23, 2024
Temperature / Humidity 26 deg. C / 32 % RH
Engineer Takayuki Kobayashi
Mode Tx

11ax-20(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
106-tone RU	5745	53	8.342	> 0.500
		54	8.383	> 0.500
	5785	53	8.367	> 0.500
		54	8.341	> 0.500
	5825	53	8.395	> 0.500
		54	8.297	> 0.500

11ax-20(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
242-tone RU	5745	61	19.139	> 0.500
	5785	61	19.077	> 0.500
	5825	61	19.116	> 0.500

6 dB Bandwidth

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
May 23, 2024
26 deg. C / 32 % RH
Takayuki Kobayashi
Tx

11n-40 CDD

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	36.595	> 0.500
5795	36.592	> 0.500

11ac-40 CDD

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	36.593	> 0.500
5795	36.547	> 0.500

11ax-40(OFDM) CDD

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	38.313	> 0.500
5795	38.371	> 0.500

6 dB Bandwidth

Test place Shonan EMC Lab. No.5 Shielded Room
Date May 24, 2024
Temperature / Humidity 26 deg. C / 42 % RH
Engineer Takayuki Kobayashi
Mode Tx

11ax-40(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
26-tone RU	5755	0	2.069	> 0.500
		8	2.084	> 0.500
		17	2.065	> 0.500
	5795	0	2.076	> 0.500
		8	2.085	> 0.500
		17	2.071	> 0.500

11ax-40(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
52-tone RU	5755	37	4.094	> 0.500
		40	4.057	> 0.500
		44	4.092	> 0.500
	5795	37	4.085	> 0.500
		40	4.065	> 0.500
		44	4.085	> 0.500

11ax-40(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
106-tone RU	5755	53	8.321	> 0.500
		54	8.458	> 0.500
		56	8.292	> 0.500
	5795	53	8.283	> 0.500
		54	8.285	> 0.500
		56	8.277	> 0.500

6 dB Bandwidth

Test place	Shonan EMC Lab. No.5 Shielded Room
Date	May 24, 2024
Temperature / Humidity	26 deg. C / 42 % RH
Engineer	Takayuki Kobayashi
Mode	Tx

11ax-40(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
242-tone RU	5755	61	18.857	> 0.500
		62	18.885	> 0.500
	5795	61	18.903	> 0.500
		62	18.891	> 0.500

11ax-40(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
484-tone RU	5755	65	38.243	> 0.500
	5795	65	38.235	> 0.500

6 dB Bandwidth

Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	May 23, 2024	May 28, 2024
Temperature / Humidity	26 deg. C / 32 % RH	26 deg. C / 48 % RH
Engineer	Takayuki Kobayashi	Shiro Kobayashi
Mode	Tx	

11ac-80 CDD

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5775	76.621	> 0.500

11ax-80(OFDM) CDD

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5775	78.383	> 0.500

11ax-80(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
26-tone RU	5775	0	2.045	> 0.500
		18	2.641	> 0.500
		36	2.077	> 0.500

11ax-80(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
52-tone RU	5775	37	4.100	> 0.500
		44	4.120	> 0.500
		52	4.129	> 0.500

11ax-80(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
106-tone RU	5775	53	8.311	> 0.500
		56	8.304	> 0.500
		60	8.310	> 0.500

6 dB Bandwidth

Test place Shonan EMC Lab. No.5 Shielded Room
Date May 28, 2024
Temperature / Humidity 26 deg. C / 48 % RH
Engineer Shiro Kobayashi
Mode Tx

11ax-80(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
242-tone RU	5775	61	18.94	> 0.500
		62	18.96	> 0.500
		64	18.90	> 0.500

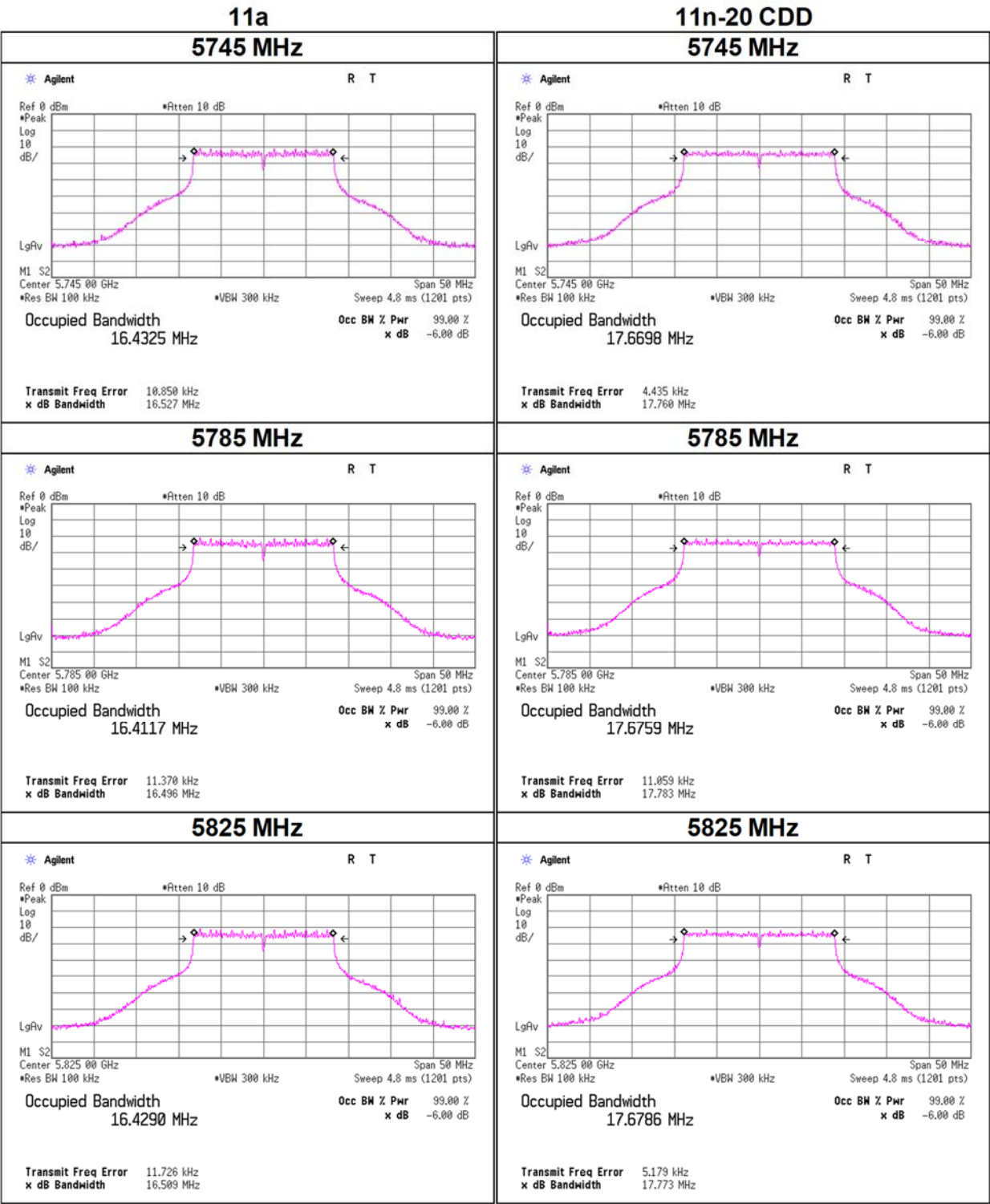
11ax-80(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
484-tone RU	5775	65	37.88	> 0.500
		66	37.85	> 0.500

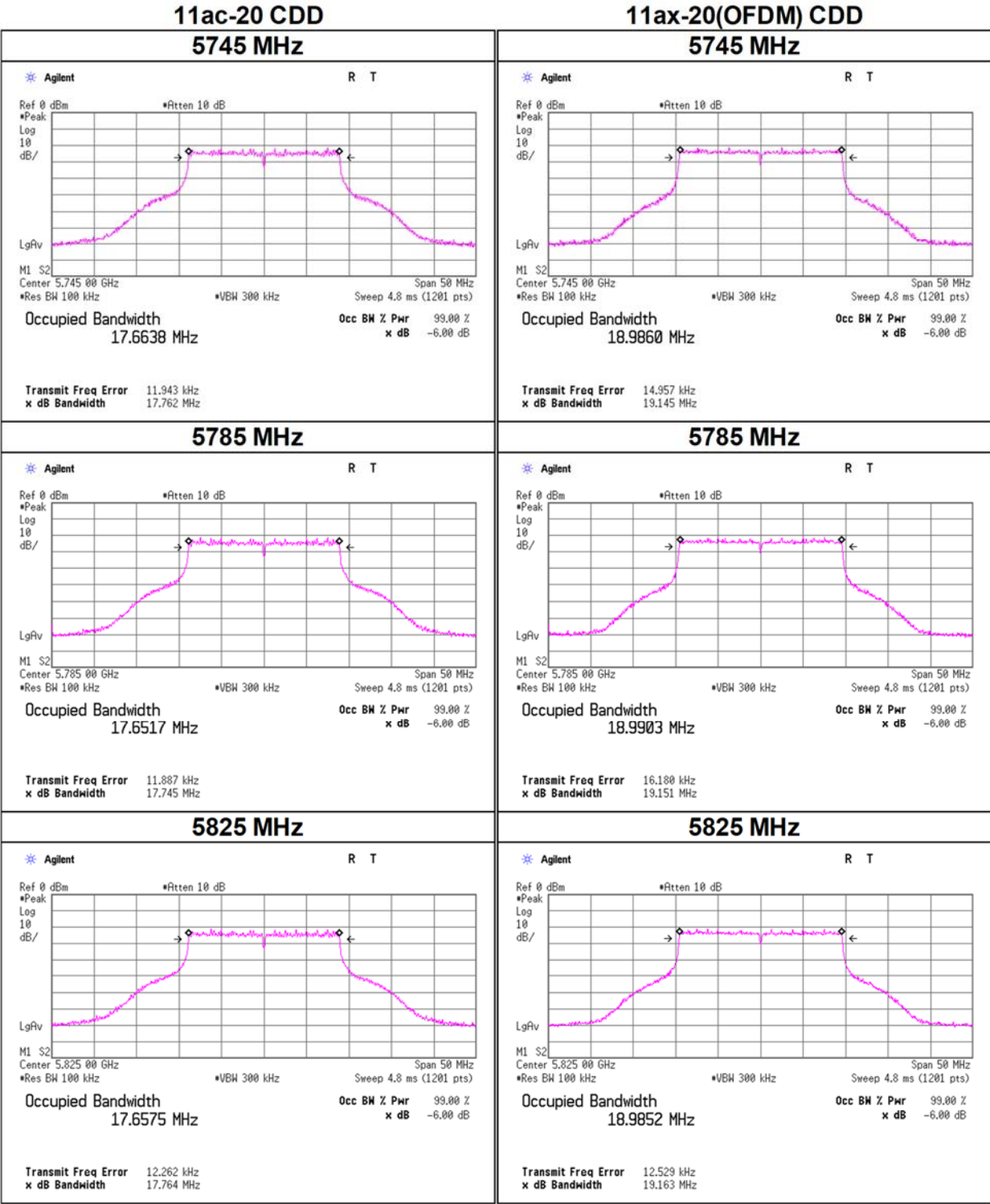
11ax-80(OFDMA) CDD

RU Type	Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
996-tone RU	5775	67	78.27	> 0.500

6 dB Bandwidth

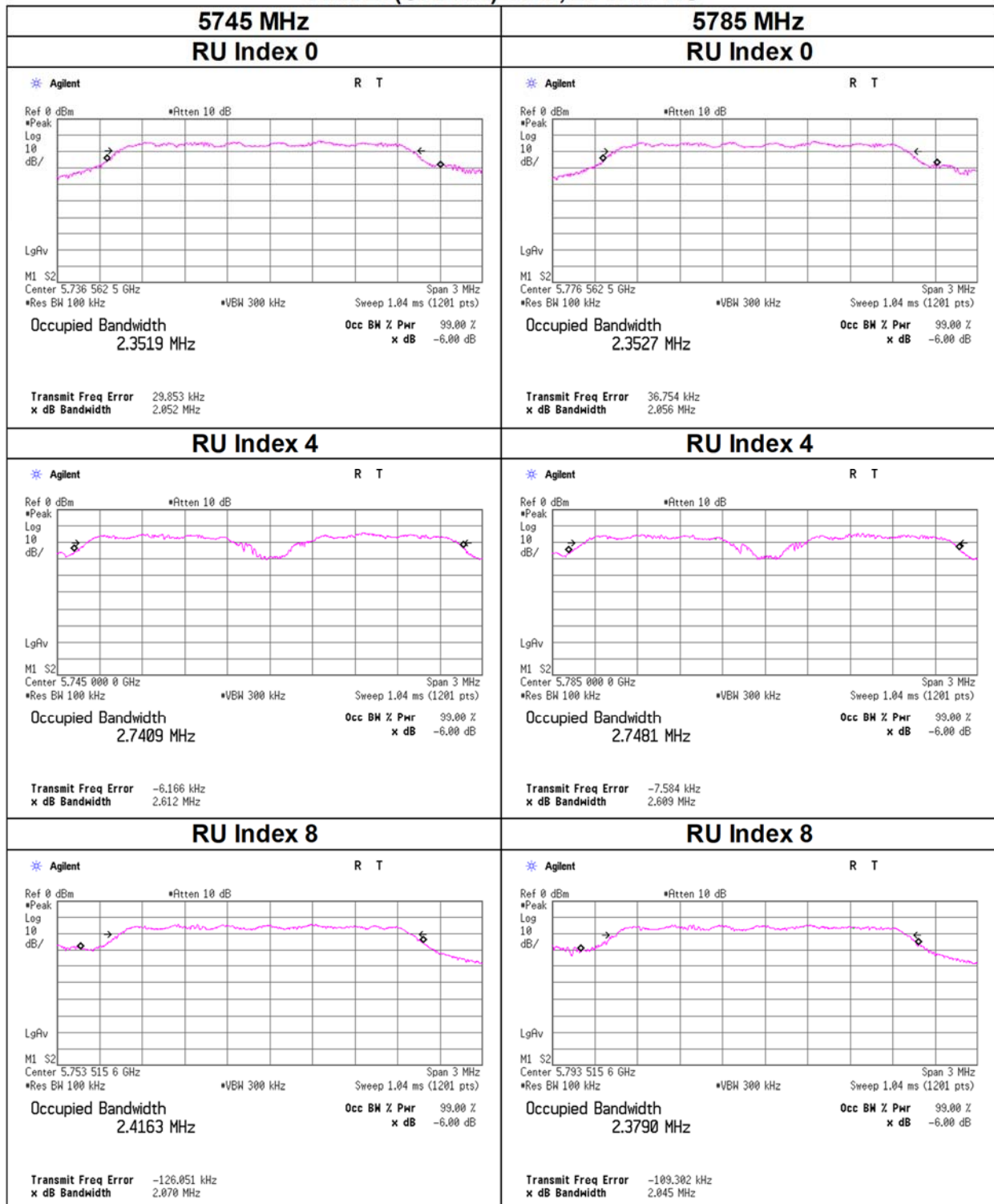


6 dB Bandwidth



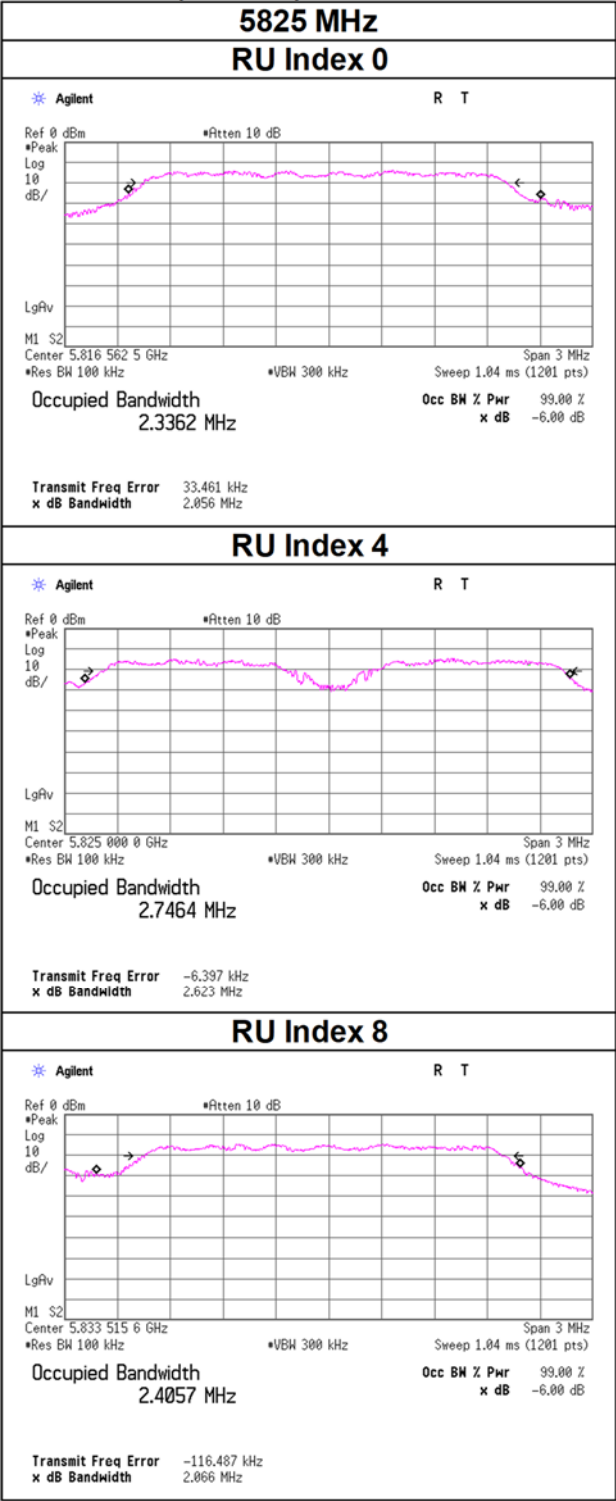
6 dB Bandwidth

11ax-20(OFDMA) CDD, 26-tone RU



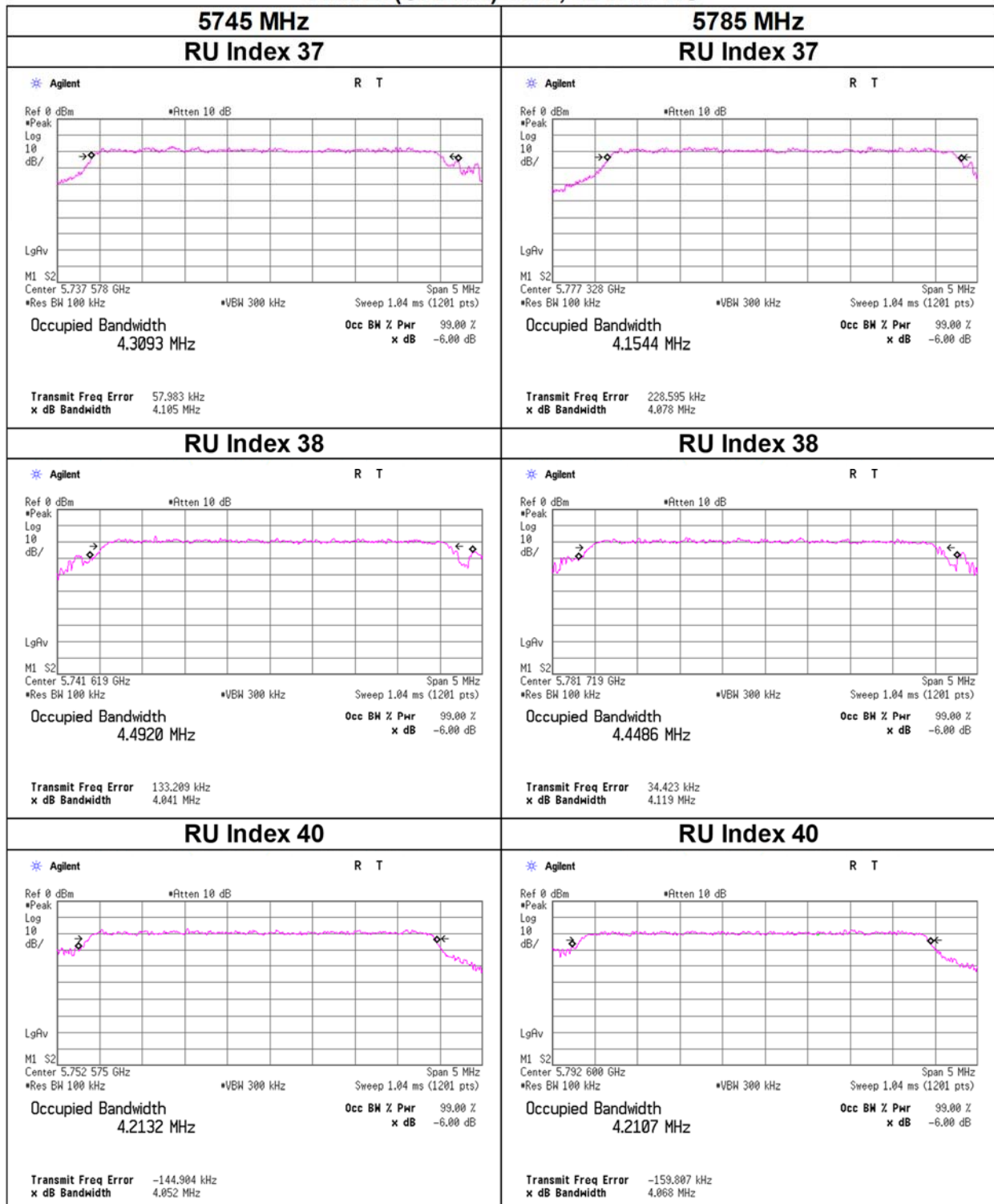
6 dB Bandwidth

11ax-20(OFDMA) CDD, 26-tone RU



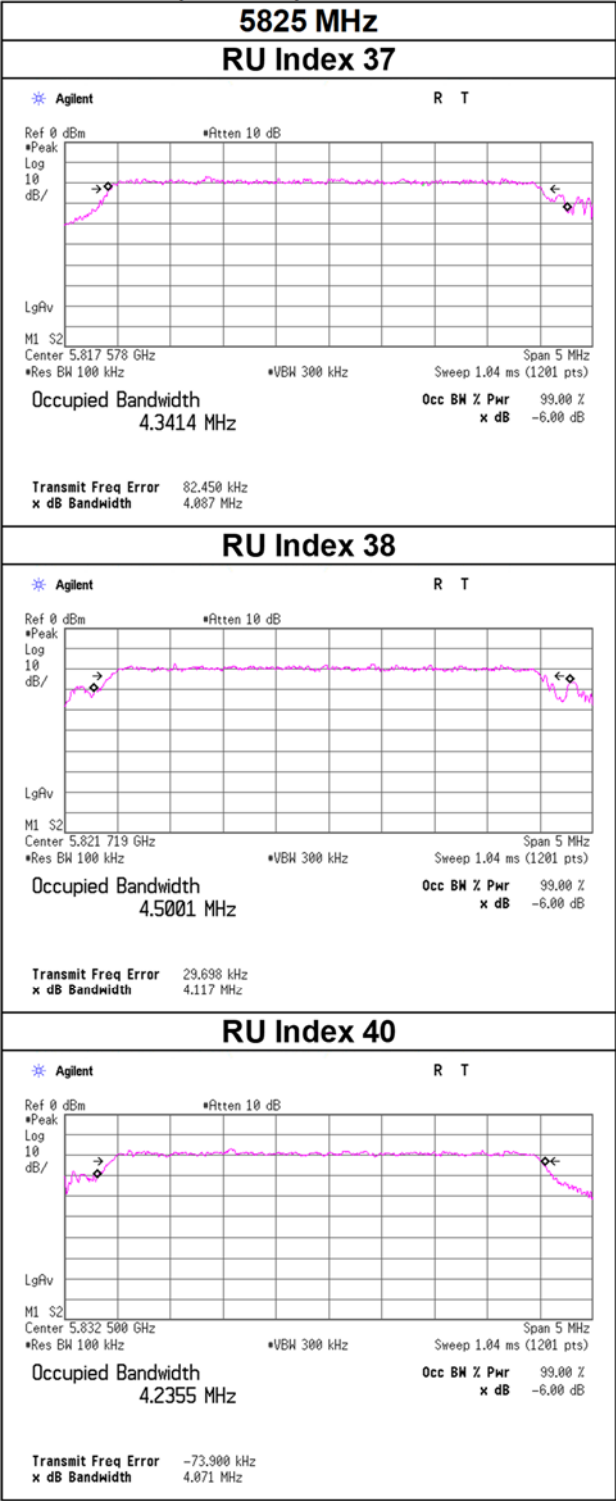
6 dB Bandwidth

11ax-20(OFDMA) CDD, 52-tone RU



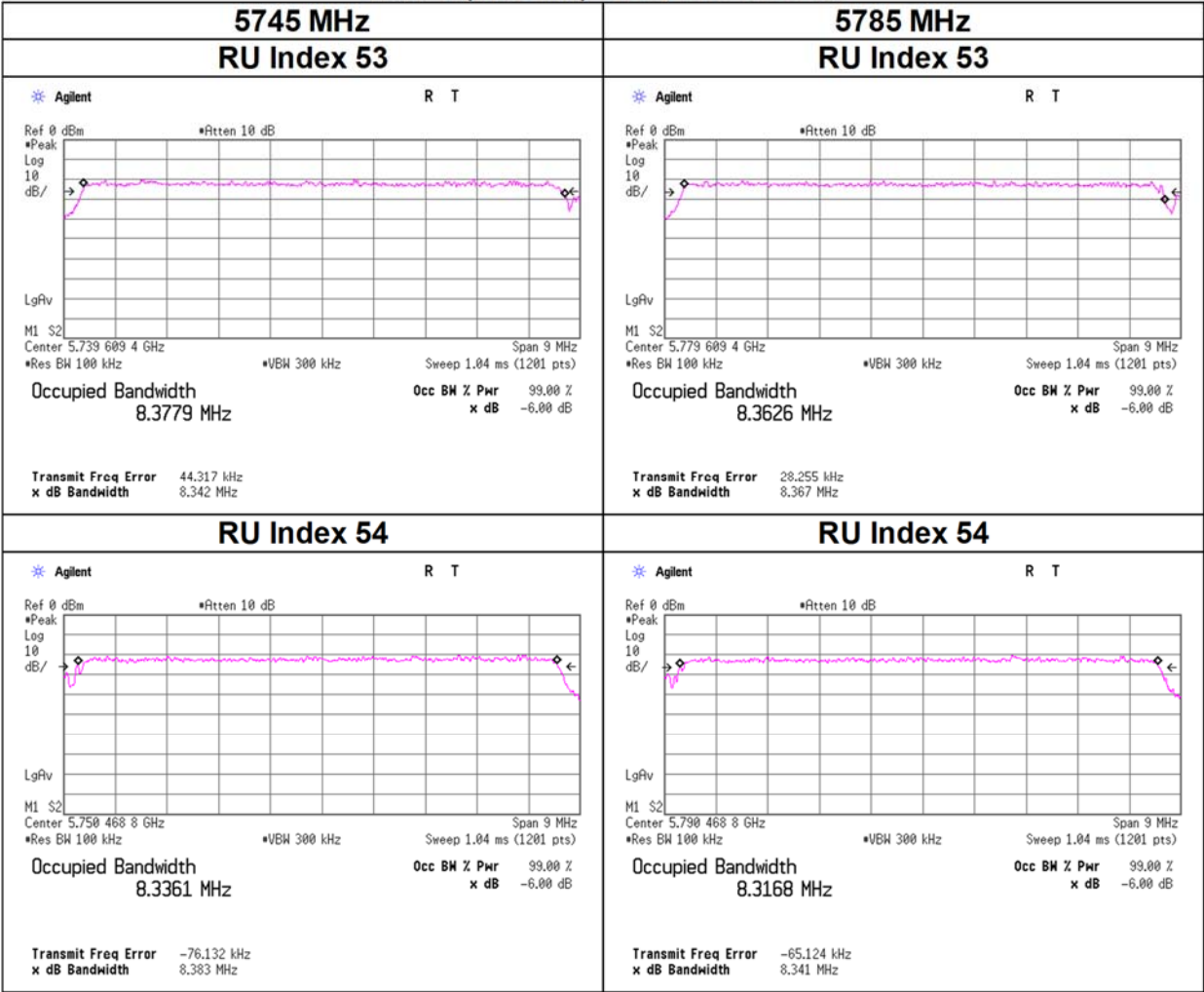
6 dB Bandwidth

11ax-20(OFDMA) CDD, 52-tone RU



6 dB Bandwidth

11ax-20(OFDMA) CDD, 106-tone RU



6 dB Bandwidth

11ax-20(OFDMA) CDD, 106-tone RU

