

RADIO TEST REPORT

Test Report No. 16029320H-C-R1

Customer	DENSO TEN Limited
Description of EUT	Car Navigation
Model Number of EUT	TN0051A
FCC ID	BABTN0051A
Test Regulation	FCC Part 15 Subpart E
Test Result	Complied
Issue Date	March 26, 2026
Remarks	-

Representative Test EngineerTakafumi Noguchi
Engineer**Approved By**Ryota Yamanaka
Engineer

CERTIFICATE 5107.02

- ☐ 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".

Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 25.0

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- For any test report referred in this report, the latest version (including any revisions) is always referred to.
- If the latest version is a revision, it replaces the previous version. See the table below for revisions and versions.

REVISION HISTORY

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	16029320H-C	December 19, 2025	-
1	16029320H-C-R1	March 26, 2026	SECTION 1 Correction of Telephone Number from +81-78-682-2159 to +81-50-1727-9598 SECTION 3.2 Addition of Reference Standard KDB 662911 D01 v02r01 for FCC MIMO device SECTION 3.3: - Update Specification for ISED - Correction of Results for Maximum Power Spectral Density from N/A to Complied SECTION 4.1 and APPENDIX 1 Addition of Radiated Spurious Emission test data for Simultaneous transmission mode (Tx 11ax- 20(OFDM) 5220 MHz + 11ax-20(OFDM) 2412 MHz) SECTION 4.2 Correction of Cable information for other: No.18 and 19 Cable Shield from Unshielded to Shielded APPENDIX 1: Test data Correction of Directional Gain formula for Maximum Conducted Output Power, Maximum Power Spectral Density and Conducted Spurious Emission

Reference: Abbreviations (Including words undescribed in this report)

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

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SECTION 1: Customer Information

Company Name	DENSO TEN Limited
Address	2-28, Goshō-Dōri 1-Chōme, Hyōgo-ku, Kobe, 652-8510, Japan
Telephone Number	+81-50-1727-9598
Contact Person	Kaoru Abe

The information provided by the customer is as follows;

- Customer, Description of EUT, Model Number of EUT, FCC ID 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

SECTION 2: Equipment Under Test (EUT)

2.1 Identification of EUT

Description	Car Navigation
Model Number	TN0051A
Serial Number	Refer to SECTION 4.2
Condition	Production prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab
Receipt Date	October 6 and 21, 2025
Test Date	October 15, 2025 to March 25, 2026

2.2 Product Description

General Specification

Rating	DC 12 V
Operating temperature	-30 deg. C to 65 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 (IEEE802.11ax Only)	26/52/106/242-tone RU
Antenna Gain	1.01 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	0.92 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	5180 MHz to 5240 MHz 5745 MHz to 5805 MHz
	40 MHz Band	5190 MHz to 5230 MHz 5755 MHz to 5795 MHz
	80 MHz Band	5210 MHz 5775 MHz
Type of Modulation	OFDM	
	OFDMA (IEEE802.11ax Only)	20 MHz: 26/52/106/242-tone RU
		40 MHz: 26/52/106/242/484-tone RU 80 MHz: 26/52/106/242/484/996-tone RU
Antenna Type	Inverted F Antenna	
Antenna Gain: G_{ANT}	Antenna 1: 1.57 dBi	
	Antenna 2: 2.14 dBi	
Directional Antenna Gain *1) a)	4.87 dBi	

*1) Directional antenna gain = $10 \log \left(\left(10^{\frac{Gain(Ant1)}{20}} + 10^{\frac{Gain(Ant2 \text{ or } Ant3)}{20}} \right)^2 / 2 \right)$

FM

Equipment Type	Receiver
Frequency of Operation	AM: 530 kHz to 1710 kHz FM: Band II: 87.75 MHz to 107.9 MHz
Type of Modulation	AM FM
Antenna Connector Type	HFC IV
Impedance	75 ohm

SECTION 3: Test Summary

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

3.2 Reference Standards

ANSI/USEMCSC C63.2-2023
ANSI C63.4-2014+C63.4a-2017
ANSI C63.10-2020
ANSI/USEMCSC C63.10/Cor 1-2023
ANSI/USEMCSC C63.10a-2024 (incl. Errata) for ISSED
ANSI C63.5-2017
ANSI C63.25.1-2018
KDB 789033 D02 v02r01
KDB 662911 D01 v02r01 for FCC MIMO device

3.3 Summary of Test Results

Item	Specification	Results	Remarks
Conducted Emission	FCC: Section 15.407 (b)(9) / 15.207 ISED: RSS-Gen section 8.8	N/A	*1)
26 dB Emission Bandwidth	FCC: Section 15.407 (a) (1)(2)(3) ISED: -	N/A	Conducted
Maximum Conducted Output Power	FCC: Section 15.407 (a) (1)(2)(3) ISED: RSS-247 section 7.3	Complied	Conducted
Maximum Power Spectral Density	FCC: Section 15.407 (a) (1)(2)(3) ISED: RSS-247 section 7.3	Complied	Conducted
Spurious Emission Restricted Band Edge	FCC: Section 15.407 (b), 15.205 and 15.209 ISED: RSS-247 section 7.3	Complied	Conducted (below 30 MHz) / Radiated (above 30 MHz) *2)
6 dB Emission Bandwidth	FCC: Section 15.407 (e) ISED: RSS-247 section 7.3	Complied	Conducted
Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.			
*1) The test is not applicable since the EUT is not the device that is designed to be connected to the public utility (AC) power line.			
*2) 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)

This EUT provides the stable voltage constantly to RF Module regardless of input voltage.
Therefore, this EUT complies with the requirement.

FCC Part 15.203 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT.
Therefore, the equipment complies with the antenna requirement of Section 15.203.

3.4 Addition to Standard

Item	Specification	Results	Remarks
99% Occupied Bandwidth	ISED: -	-	Conducted

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

3.5 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 $k = 2$.

Radiated emission

Measurement distance	Frequency range	Unit	Calculated Uncertainty (+/-)
3 m	9 kHz to 30 MHz	dB	3.3
10 m		dB	3.1
3 m	30 MHz to 200 MHz	Horizontal	5.0
		Vertical	5.0
	200 MHz to 1000 MHz	Horizontal	5.2
		Vertical	6.2
10 m	30 MHz to 200 MHz	Horizontal	5.5
		Vertical	5.4
	200 MHz to 1000 MHz	Horizontal	5.5
		Vertical	5.5
3 m	1 GHz to 6 GHz	dB	5.1
	6 GHz to 18 GHz	dB	5.4
1 m	10 GHz to 18 GHz	dB	5.4
	18 GHz to 26.5 GHz	dB	5.3
	26.5 GHz to 40 GHz	dB	4.8
0.5 m	26.5 GHz to 40 GHz	dB	5.0

Antenna Terminal Conducted

Item	Unit	Calculated Uncertainty (+/-)
Antenna terminated conducted emission / Power density / Burst power	dB	3.50
Adjacent channel power (ACP)	dB	2.32
Bandwidth (OBW)	%	0.96
Time readout (time span upto 100 msec)	%	0.11
Time readout (time span upto 1000 msec)	%	0.11
Time readout (time span upto 60 sec)	%	0.02
Power measurement (Power meter < 8 GHz)	dB	1.43
Power measurement (Call box < 6 GHz)	dB	1.89
Frequency readout (Frequency counter)	ppm	0.67
Frequency readout (Spectrum analyzer frequency readout function)	ppm	2.13
Temperature (constant temperature bath)	deg. C	0.69
Humidity (constant temperature bath)	%RH	2.98
Modulation characteristics	%	6.93
Frequency for mobile	ppm	0.08
Contention-based protocol	dB	2.97

3.6 Test Location

UL Japan, Inc. Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 Japan

Telephone: +81-596-24-8999

A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919

ISED Lab Company Number: 2973C / CAB identifier: JP0002

Test site	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms	Maximum measurement distance
No.1 semi-anechoic chamber (SAC1)	19.2 x 11.2 x 7.7	7.0 x 6.0	No.1 Power source room	10 m
No.2 semi-anechoic chamber (SAC2)	7.5 x 5.8 x 5.2	4.0 x 4.0	-	3 m
No.3 semi-anechoic chamber (SAC3)	12.0 x 8.5 x 5.9	6.8 x 5.75	No.3 Preparation room (PR3)	3 m
No.3 shielded room (SR3)	4.0 x 6.0 x 2.7	N/A	-	-
No.4 semi-anechoic chamber (SAC4)	12.0 x 8.5 x 5.9	6.8 x 5.75	No.4 Preparation room (PR4)	3 m
No.4 shielded room (SR4)	4.0 x 6.0 x 2.7	N/A	-	-
No.5 semi-anechoic chamber (SAC5)	6.0 x 6.0 x 3.9	6.0 x 6.0	-	-
No.5 measurement room (MR5)	6.4 x 6.4 x 3.0	6.4 x 6.4	-	-
No.6 shielded room (SR6)	4.0 x 4.5 x 2.7	4.0 x 4.5	-	-
No.6 measurement room (MR6)	4.75 x 5.4 x 3.0	4.75 x 4.15	-	-
No.7 shielded room (SR7)	4.7 x 7.5 x 2.7	4.7 x 7.5	-	-
No.8 measurement room (MR8)	3.1 x 5.0 x 2.7	3.1 x 5.0	-	-
No.9 measurement room (MR9)	8.8 x 4.6 x 2.8	2.4 x 2.4	-	-
No.10 shielded room (SR10)	3.8 x 2.8 x 2.8	3.8 x 2.8	-	-
No.11 measurement room (MR11)	4.0 x 3.4 x 2.5	N/A	-	-
No.12 measurement room (MR12)	2.6 x 3.4 x 2.5	N/A	-	-
Large Chamber	16.9 x 22.1 x 10.17	16.9 x 22.1	-	10 m
Small Chamber	5.3 x 6.69 x 3.59	5.3 x 6.69	-	-

3.7 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)	36 Mbps, PN9
IEEE 802.11n MIMO 20 MHz BW (11n-20)	MCS 6, PN9
IEEE 802.11ac MIMO 20 MHz BW (11ac-20)	MCS 4, PN9
IEEE 802.11ax MIMO 20 MHz BW (11ax-20)	MCS 8 (1SS), PN9
IEEE 802.11n MIMO 40 MHz BW (11n-40)	MCS 6, PN9
IEEE 802.11ac MIMO 40 MHz BW (11ac-40)	MCS 6 (1SS), PN9
IEEE 802.11ax MIMO 40 MHz BW (11ax-40)	MCS 8 (1SS), PN9
IEEE 802.11ac MIMO 80 MHz BW (11ac-80)	MCS 4 (1SS), PN9
IEEE 802.11ax MIMO 80 MHz BW (11ax-80)	MCS 9 (1SS), PN9
*The worst antenna and condition was determined based on the test result of Maximum Conducted Output Power.	
*Power of the EUT was set by the software as follows; Power Setting: See the table below Software: Qualcomm Radio Control Toolkit Version: 4.0.209.0 (Date: 2022.08.17, 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 table

		20 MHz BW	40MHz BW	80MHz BW
11ac		3	3	3
OFDM other than 11ac		5	5	5
OFDMA	26-tone RU	-12	-12	-12
	52-tone RU	-9	-9	-9
	106-tone RU	-6	-6	-6
	242-tone RU	-3	-3	-3
	484-tone RU	-	-3	-3
	996-tone RU	-	-	-3

*The Details of Operation Mode(s)

Test Item	Operating Mode	Tested Antenna	Tested Frequency			
			Lower Band	Middle Band	Additional Band	Upper Band
Radiated Spurious Emission (Below 1 GHz)	Tx 11ax-20(OFDM) *1)	Antenna 1 + 2	5220 MHz	-	-	-
26 dB Emission Bandwidth and 99 % Occupied Bandwidth	Tx 11a Tx 11n-20 Tx 11ac-20 Tx 11ax-20(OFDM) Tx 11ax-20(OFDMA)	Antenna 1 *2)	5180 MHz 5220 MHz 5240 MHz	-	-	5745 MHz 5785 MHz 5805 MHz
	Tx 11n-40 Tx 11ac-40 Tx 11ax-40(OFDM) Tx 11ax-40(OFDMA)		5190 MHz 5230 MHz	-	-	5755 MHz 5795 MHz
	Tx 11ac-80 Tx 11ax-80(OFDM) Tx 11ax-80(OFDMA)		5210 MHz	-	-	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)	Antenna 1 Antenna 2 Antenna 1 + 2	5180 MHz 5220 MHz 5240 MHz	-	-	5745 MHz 5785 MHz 5805 MHz
	Tx 11n-40 Tx 11ac-40 Tx 11ax-40(OFDM) Tx 11ax-40(OFDMA)		5190 MHz 5230 MHz	-	-	5755 MHz 5795 MHz
	Tx 11ac-80 Tx 11ax-80(OFDM) Tx 11ax-80(OFDMA)		5210 MHz	-	-	5775 MHz
6 dB Bandwidth	Tx 11a Tx 11n-20 Tx 11ac-20 Tx 11ax-20(OFDM) Tx 11ax-20(OFDMA)	Antenna 1 *2)	-	-	-	5745 MHz 5785 MHz 5805 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 (Above 1 GHz)	Tx 11a Tx 11n-20 Tx 11ac-20 Tx 11ax-20(OFDM) *3)	Antenna 1 + 2	5180 MHz 5220 MHz 5240 MHz	-	-	5745 MHz 5785 MHz 5805 MHz
	Tx 11n-40 Tx 11ac-40 Tx 11ax-40(OFDM) *3)	Antenna 1 + 2	5190 MHz 5230 MHz	-	-	5755 MHz 5795 MHz
	Tx 11ac-80 Tx 11ax-80(OFDM) *3)	Antenna 1 + 2	5210 MHz	-	-	5775 MHz
Conducted Spurious Emission	Tx 11ax-20(OFDM) *1)	Antenna 1 *2)	5220 MHz	-	-	-

*1) The mode was tested as a representative, because it had the highest power at antenna terminal test.
 *2) After the comparison between Antenna 1 and Antenna 2, the test was performed with the antenna that had higher power as a representative.
 *3) Spurious emissions testing was conducted only with OFDM, since preliminary testing indicated that the OFDMA configuration emitted less than the OFDM.

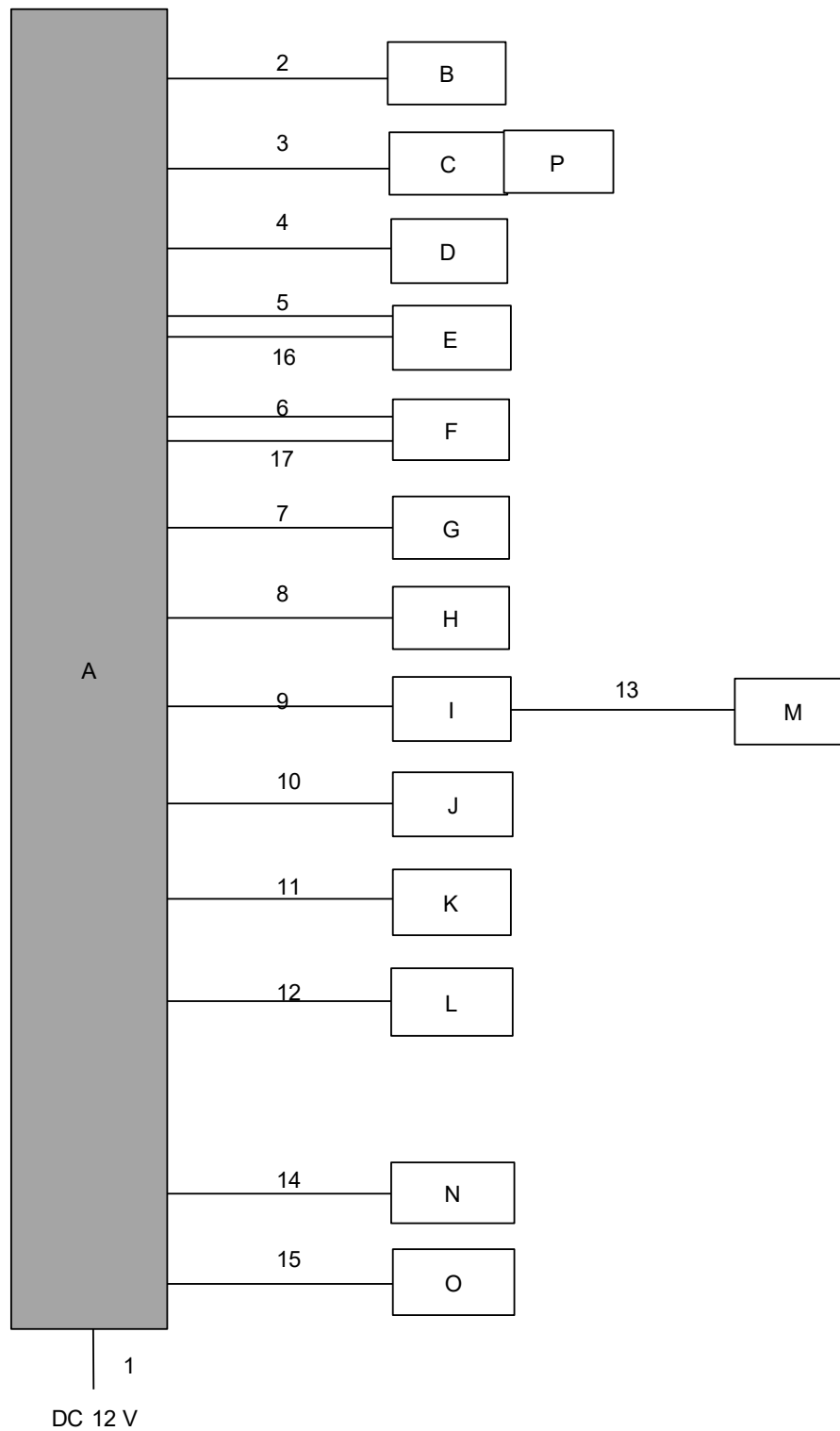
Simultaneous transmission

(Antenna 1 can simultaneously transmit 5 GHz WLAN together with Bluetooth using a single antenna.
 Antenna 2 can simultaneously transmit 5 GHz WLAN together with 2.4 GHz WLAN using a single antenna.)

Test Item	Mode *1)	Antenna type
Radiated Spurious Emission	Tx 11ax-20(OFDM) 5220 MHz + BT Hopping On, DH5	Antenna 1
	Tx 11ax-20(OFDM) 5220 MHz + 11ax-20(OFDM) 2412 MHz	Antenna 2
*1) The test was conducted on representative mode, which had the highest power at Antenna terminal conducted test for both WLAN 5 GHz band and Bluetooth.		

4.2 Configuration and Peripherals

For Radiated Spurious Emission test



* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

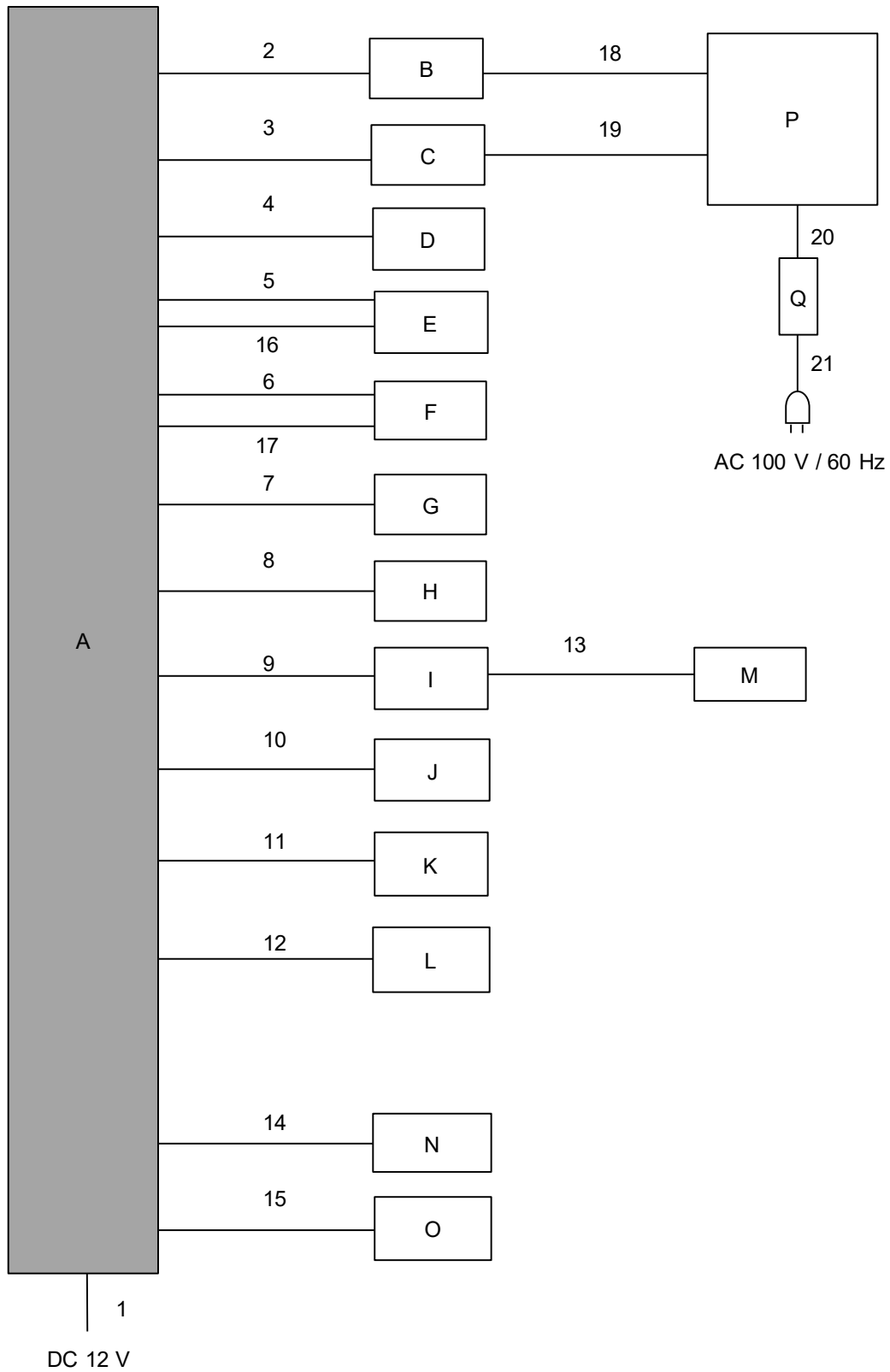
Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Car Navigation	TN0051A	MY800026	DENSO TEN Limited	EUT
B	Jig Board	-	-	-	-
C	USB Adapter	DEP37-10169	No.31	KP	-
D	Switch	-	-	-	-
E	Meter	83800-4AL70	457410-0021	DENSO	-
F	DCM	892K0-310DD	No.6	LGE	-
G	FM/AM Antenna	DQV32-10065	No.14	MinebeaMitsumi	-
H	Speaker Dummy	-	-	-	-
I	I/F Conversion Box	867B1-42010_3986	No.20	TOKAI RIKA	-
J	EXPANSION Body ECU	892K0-310DD6	No.5	Sumitomo Electric Industries, Ltd	-
K	Remote SW Module	84010-33170	No.4	TOKAI RIKA	-
L	Steering SW	84250-42780	N0.23	TOKAI RIKA	-
M	BCM Camera	8679B-42010	No.5	KYOCERA	-
N	MIC	86730-42130	No.86	KP	-
O	MIC	86730-42130	No.87	KP	-
P	USB Memory	-	-	Sony corporation	-

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	4.0	Unshielded	Unshielded	-
2	Flat Cable	0.1	Unshielded	Unshielded	-
3	Signal Cable	2.5	Shielded	Shielded	-
4	Signal Cable	2.5	Unshielded	Unshielded	-
5	Signal Cable	2.5	Unshielded	Unshielded	-
6	Signal Cable	2.5	Unshielded	Unshielded	-
7	FM/AM Antenna Cable	6.0	Shielded	Unshielded	-
8	Speaker Cable	2.5	Unshielded	Unshielded	-
9	Signal Cable	2.5	Shielded	Shielded	-
10	Signal Cable	2.5	Unshielded	Unshielded	-
11	Signal Cable	2.5	Unshielded	Unshielded	-
12	Signal Cable	2.5	Unshielded	Unshielded	-
13	Camera Cable	1.5	Shielded	Shielded	-
14	MIC Cable	2.5	Unshielded	Unshielded	-
15	MIC Cable	2.5	Unshielded	Unshielded	-
16	Signal Cable	2.5	Shielded	Shielded	-
17	Signal Cable	2.5	Shielded	Unshielded	-

For other



* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Car Navigation	TN0051A	MY800025	DENSO TEN Limited	EUT
B	Jig Board	-	-	-	-
C	USB Adapter	DEP37-10176	No.45	KP	-
D	Switch	-	-	-	-
E	Meter	83800-4AL70	457410-0021	DENSO	-
F	DCM	892K0-310D6	No.5	LGE	-
G	FM/AM Antenna	DQV32-10030	No.15	MinebeaMitsumi	-
H	Speaker Dummy	-	-	-	-
I	I/F Conversion Box	867B1-42010_3986	No.10	TOKAI RIKA	-
J	EXPANSION Body ECU	892K0-310DD6	No.5	Sumitomo Electric Industries, Ltd	-
K	Remote SW Module	84010-33170	No.1	TOKAI RIKA	-
L	Steering SW	84250-42780	No.23	TOKAI RIKA	-
M	BGM Camera	8679B-42010	No.5	KYOCERA	-
N	MIC	86730-42130	No.86	KP	-
O	MIC	86730-42130	No.87	KP	-
P	Laptop PC	PR63PBAA337AD7X	6F053913H	TOSHIBA	-
Q	AC Adapter	PA51770-1ACA	FX10800NSKACC	TOSHIBA	-

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	4.0	Unshielded	Unshielded	-
2	Flat Cable	0.1	Unshielded	Unshielded	-
3	Signal Cable	2.5	Shielded	Shielded	-
4	Signal Cable	2.5	Unshielded	Unshielded	-
5	Signal Cable	2.5	Unshielded	Unshielded	-
6	Signal Cable	2.5	Unshielded	Unshielded	-
7	FM/AM Antenna Cable	6.0	Shielded	Unshielded	-
8	Speaker Cable	3.0	Unshielded	Unshielded	-
9	Signal Cable	1.0	Shielded	Shielded	-
10	Signal Cable	2.5	Unshielded	Unshielded	-
11	Signal Cable	2.5	Unshielded	Unshielded	-
12	Signal Cable	2.5	Unshielded	Unshielded	-
13	Camera Cable	1.5	Shielded	Shielded	-
14	MIC Cable	2.5	Unshielded	Unshielded	-
15	MIC Cable	2.5	Unshielded	Unshielded	-
16	Signal Cable	2.5	Shielded	Shielded	-
17	Signal Cable	2.5	Shielded	Unshielded	-
18	USB Cable	2.5	Shielded	Shielded	-
19	USB Cable	2.5	Shielded	Shielded	-
20	DC Cable	1.7	Unshielded	Unshielded	-
21	AC Cable	0.8	Unshielded	Unshielded	-

SECTION 5: Radiated Spurious Emission and Band Edge Compliance

Test Procedure

< Below 1 GHz >

EUT was placed on a 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 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 5.8 GHz 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:

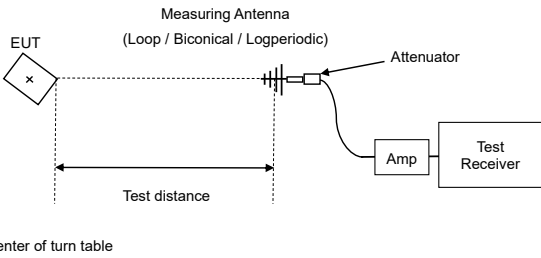
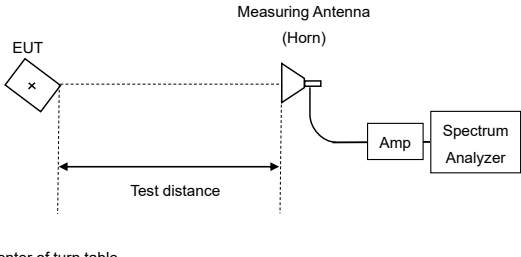
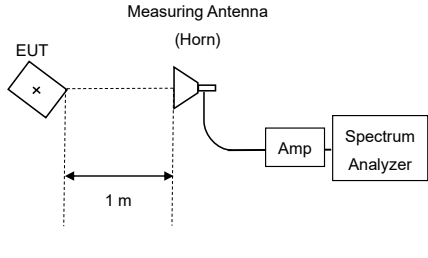
$$E = \frac{1000000\sqrt{30P}}{3} \text{ (uV/m)} \quad : P \text{ is the e.i.r.p. (Watts)}$$

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 AD RBW: 1 MHz VBW: 3 MHz Detector: Power Averaging (RMS) Trace: ≥ 100 traces If duty cycle was less than 98%, a duty factor was added to the results.

Figure 2: Test Setup

Below 1 GHz	
 × : Center of turn table	Test Distance: 3 m
1 GHz to 18 GHz	
 × : Center of turn table	Test Distance: 3 m
18 GHz to 40 GHz	
 × : Center of turn table	Distance Factor: $20 \times \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.5 \text{ dB}$ *Test Distance: 1 m

The test was made on EUT at the normal use position.

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
26 dB Bandwidth	Enough to capture the emission	Close to 1 % of EBW	> RBW	Auto	Peak	Max Hold	Spectrum Analyzer
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: 80 MHz BW) (Method PM-G)
Maximum Power Spectral Density	Encompass the entire EBW	1 MHz or 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 low enough 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

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
Date	Test Site	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	45 %RH	Tomoya Sone

11a

Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5180	-	16591.2
5220	-	16593.6
5240	-	16609.2
5745	-	16594.9
5785	-	16608.9
5805	-	16597.1

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Site	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	45 %RH	Tomoya Sone

11n-20

Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5180	-	17787.5
5220	-	17774.1
5240	-	17785.8
5745	-	17788.9
5785	-	17782.0
5805	-	17763.1

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	45 %RH	Tomoya Sone

11ac-20

Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5180	-	17777.8
5220	-	17770.0
5240	-	17791.8
5745	-	17793.9
5785	-	17775.3
5805	-	17794.5

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Site	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	45 %RH	Tomoya Sone

11ax-20(OFDM)

Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5180	-	18997.3
5220	-	19034.8
5240	-	19048.2
5745	-	19041.0
5785	-	19039.8
5805	-	19032.2

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Site	Temperature	Humidity	Engineer
October 28, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5180	0	-	18348.7
5220	4	-	17278.7
5240	8	-	18450.8
5745	0	-	18338.4
5785	4	-	17279.9
5805	8	-	18410.6

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Site	Temperature	Humidity	Engineer
October 28, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5180	37	-	18324.5
5220	38	-	17322.7
5240	40	-	18275.8
5745	37	-	18321.2
5785	38	-	17320.1
5805	40	-	18264.6

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 28, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5180	53	-	18242.3
5220	53	-	18248.3
5240	54	-	18240.4
5745	53	-	18239.1
5785	53	-	18249.9
5805	54	-	18216.3

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Site	Temperature	Humidity	Engineer
October 29, 2025	MR8	24 deg.C	42 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5180	61	-	19050.6
5220	61	-	19061.6
5240	61	-	19050.3
5745	61	-	19053.4
5785	61	-	19068.3
5805	61	-	19050.8

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Site	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	45 %RH	Tomoya Sone

11n-40

Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5190	-	36473.4
5230	-	36491.1
5755	-	36459.8
5795	-	36477.7

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Site	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	45 %RH	Tomoya Sone

11ac-40

Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5190	-	36478.0
5230	-	36471.8
5755	-	36505.8
5795	-	36407.2

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Site	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	45 %RH	Tomoya Sone

11ax-40(OFDM)

Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5190	-	38017.9
5230	-	37941.7
5755	-	38034.4
5795	-	37978.9

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Site	Temperature	Humidity	Engineer
October 29, 2025	MR8	24 deg.C	42 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5190	0	-	38021.1
5230	17	-	38128.8
5755	0	-	38008.7
5795	17	-	38133.0

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 29, 2025	MR8	24 deg.C	42 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5190	37	-	37715.2
5230	44	-	37759.2
5755	37	-	37707.4
5795	44	-	37741.9

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Site	Temperature	Humidity	Engineer
October 29, 2025	MR8	24 deg.C	42 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5190	53	-	37406.2
5230	56	-	37533.8
5755	53	-	37383.2
5795	56	-	37513.3

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 29, 2025	MR8	24 deg.C	42 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5190	61	-	37275.4
5230	62	-	37368.2
5755	61	-	37258.0
5795	62	-	37342.1

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 29, 2025	MR8	24 deg.C	42 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5190	65	-	38105.2
5230	65	-	38052.3
5755	65	-	38126.2
5795	65	-	38085.4

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
November 05, 2025	MR8	22 deg.C	48 %RH	Takafumi Noguchi

11ac-80

Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5210	-	76068.6
5775	-	76202.0

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
November 05, 2025	MR8	22 deg.C	48 %RH	Takafumi Noguchi

11ax-80(OFDM)

Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5210	-	77538.4
5775	-	77613.6

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 30, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

11ax-80(OFDMA), 26-tone RU

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5210	0	-	78817.7
	36	-	79417.5
5775	0	-	79177.5
	36	-	79199.8

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 30, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

11ax-80(OFDMA), 52-tone RU

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5210	37	-	78123.0
	52	-	78260.7
5775	37	-	78319.0
	52	-	78416.5

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Site	Temperature	Humidity	Engineer
October 30, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5210	53	-	77652.8
	60	-	77220.5
5775	53	-	77752.3
	60	-	77345.8

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Site	Temperature	Humidity	Engineer
October 30, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5210	61	-	77192.6
	64	-	77320.7
5775	61	-	77272.5
	64	-	77358.2

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Site	Temperature	Humidity	Engineer
October 30, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5210	65	-	76822.3
	66	-	77033.7
5775	65	-	76829.2
	66	-	77074.3

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
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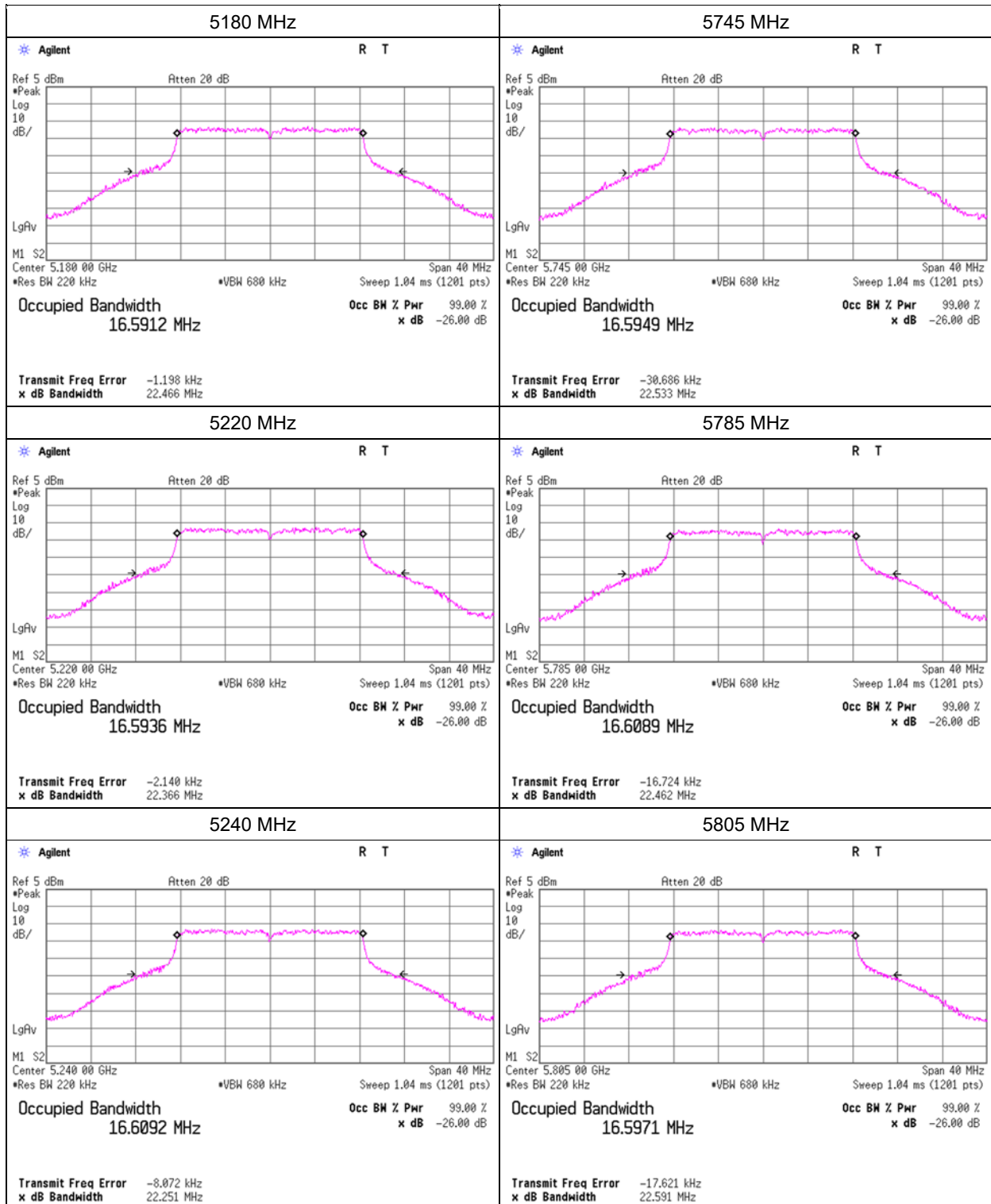
Date	Test Site	Temperature	Humidity	Engineer
October 30, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5210	67	-	77719.3
5775	67	-	77710.5

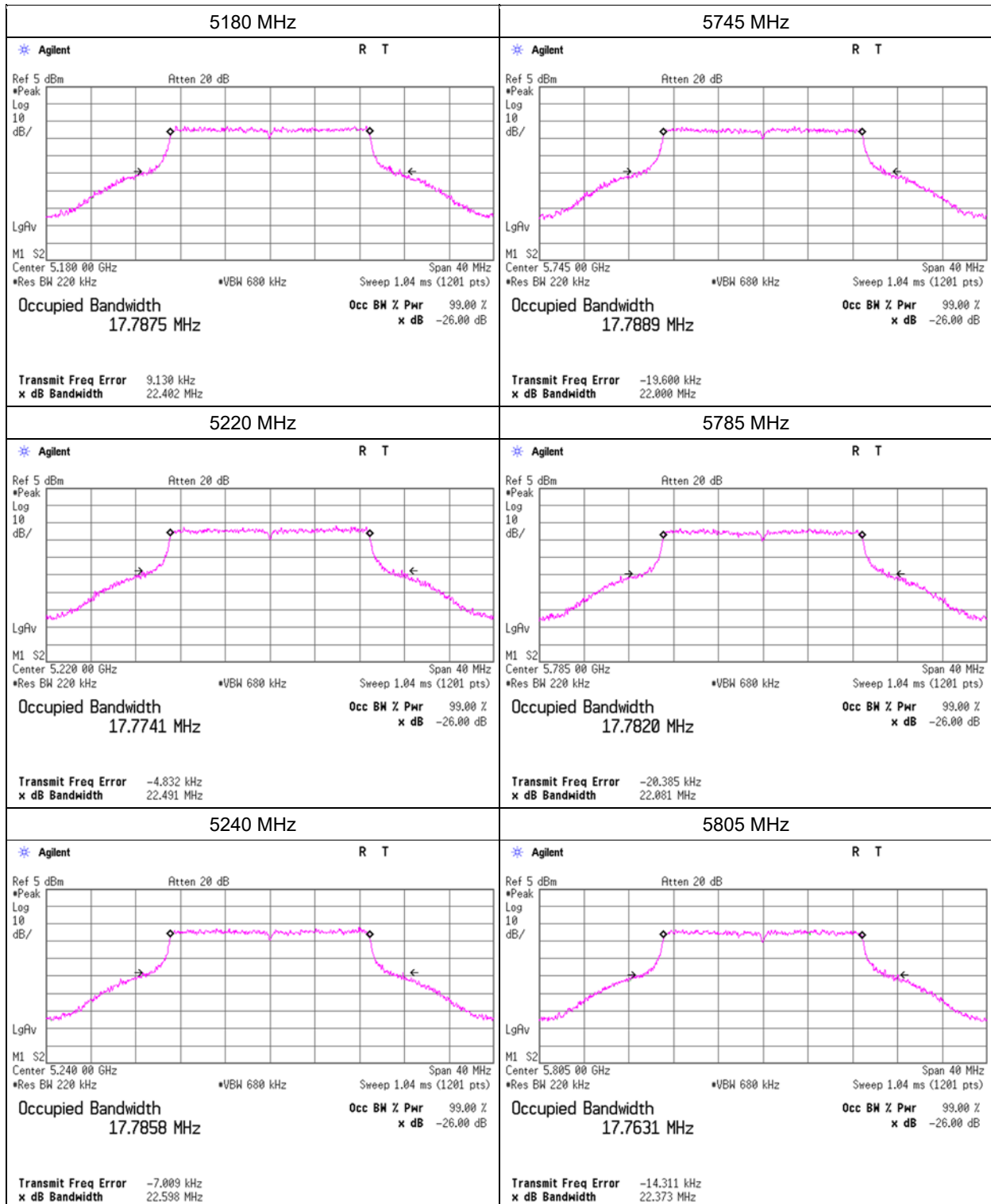
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11a



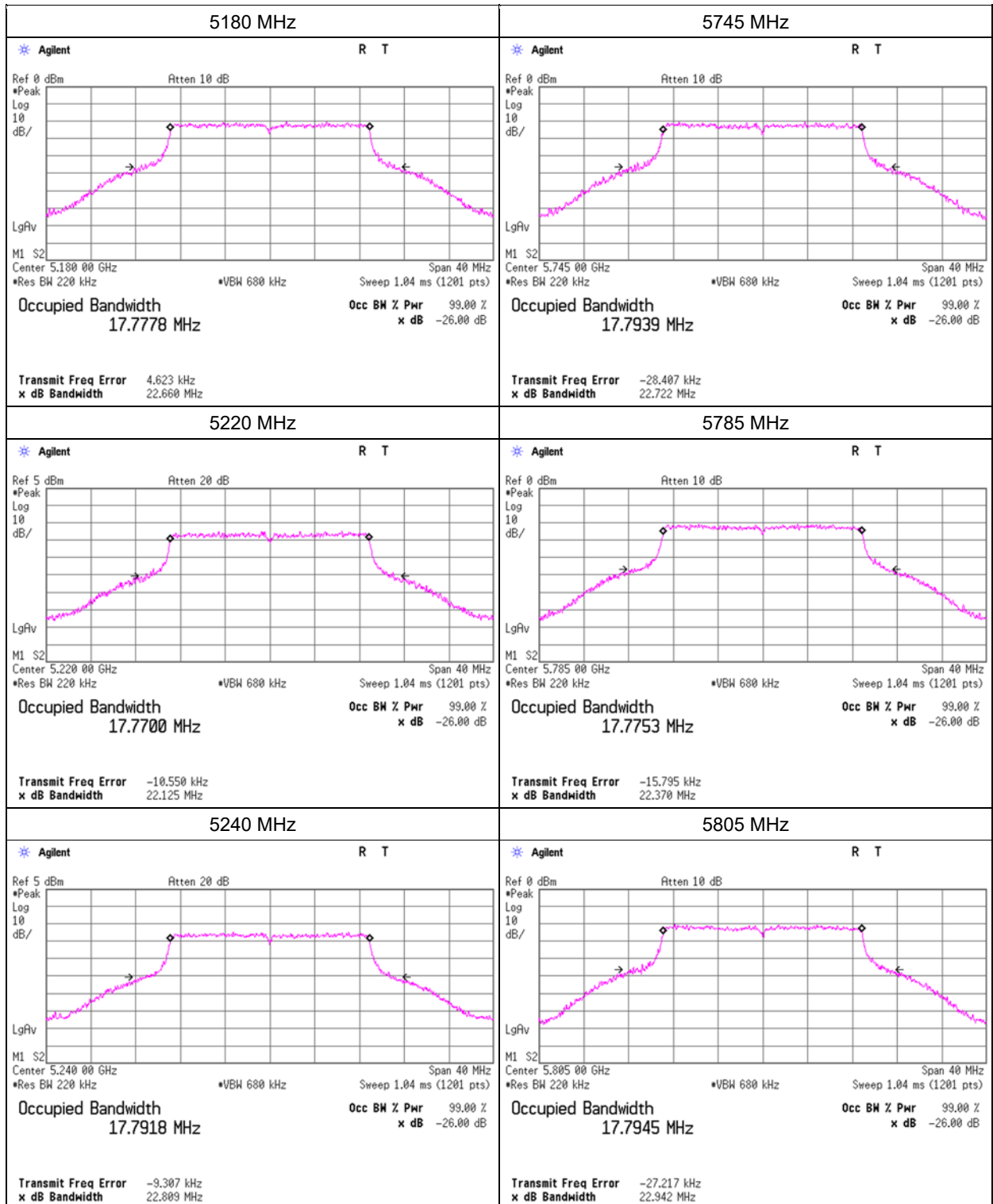
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11n-20



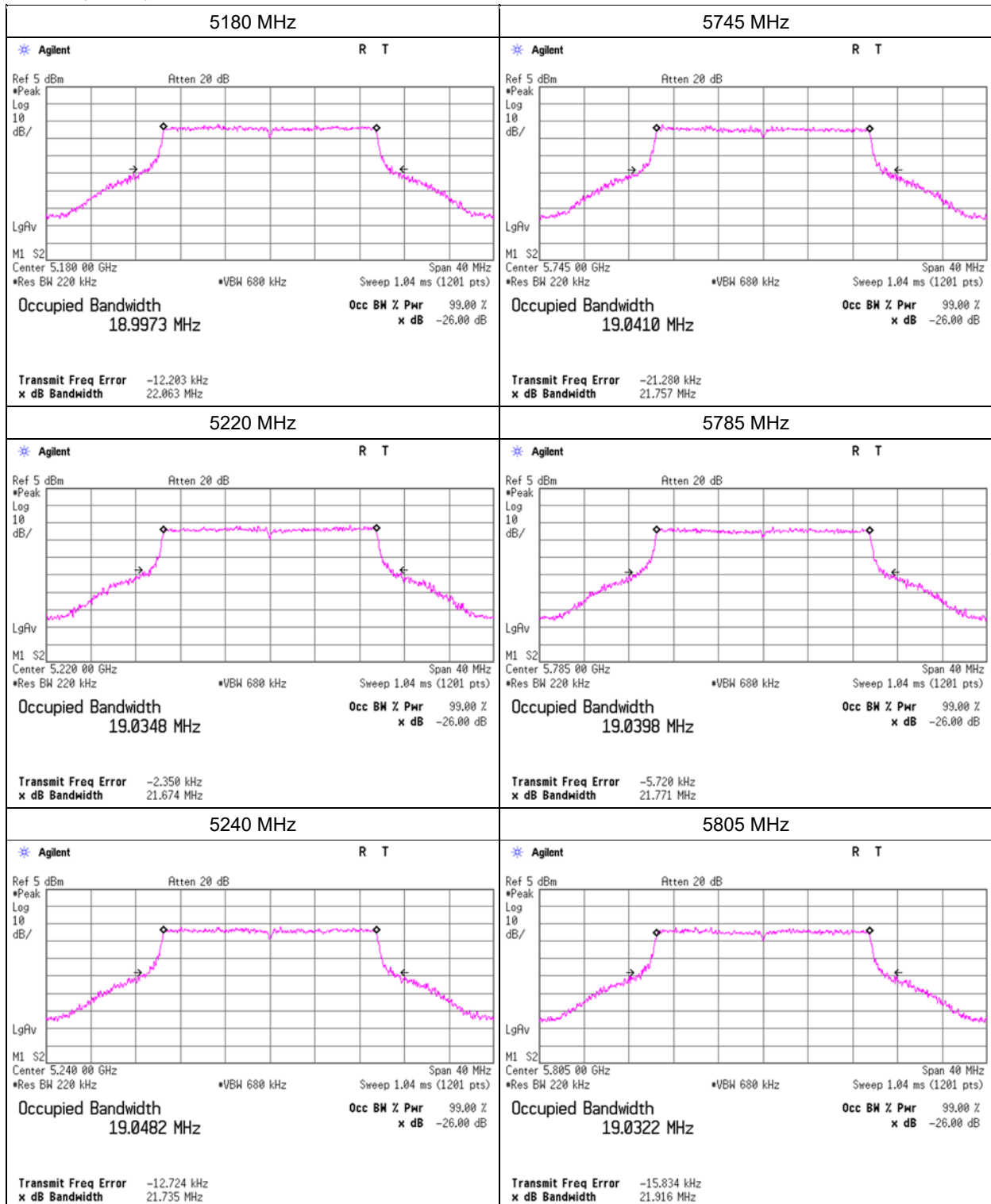
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ac-20



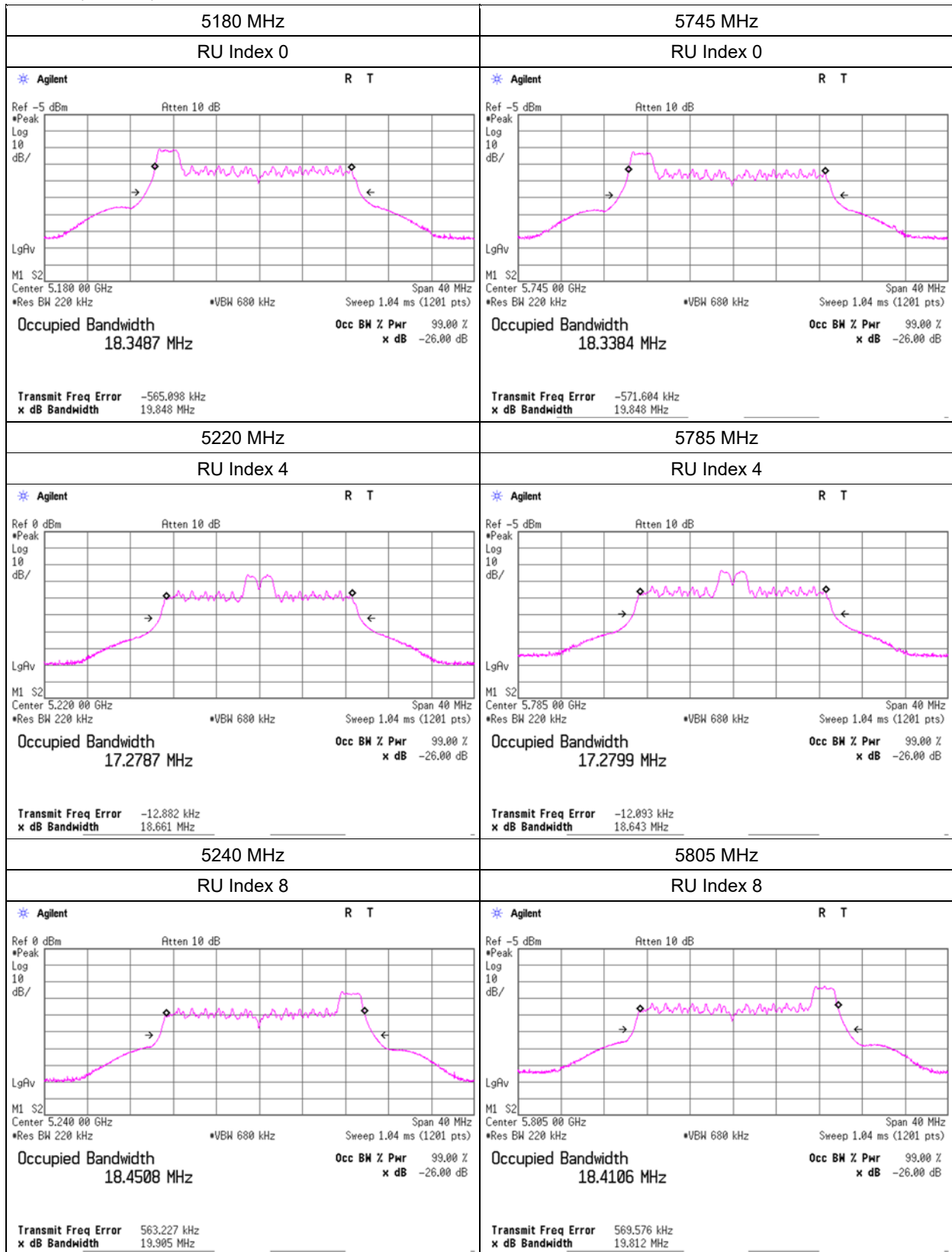
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-20(OFDM)



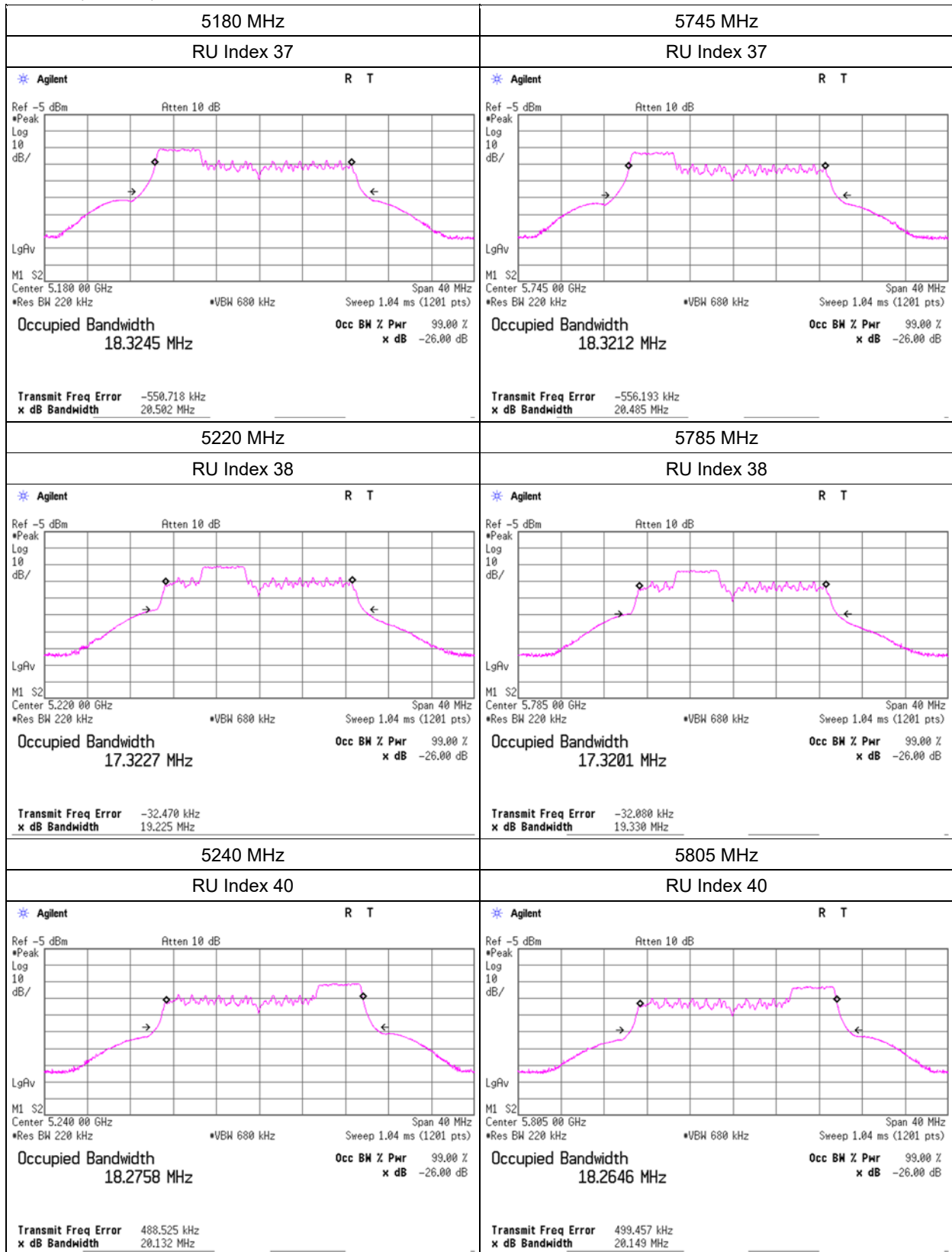
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



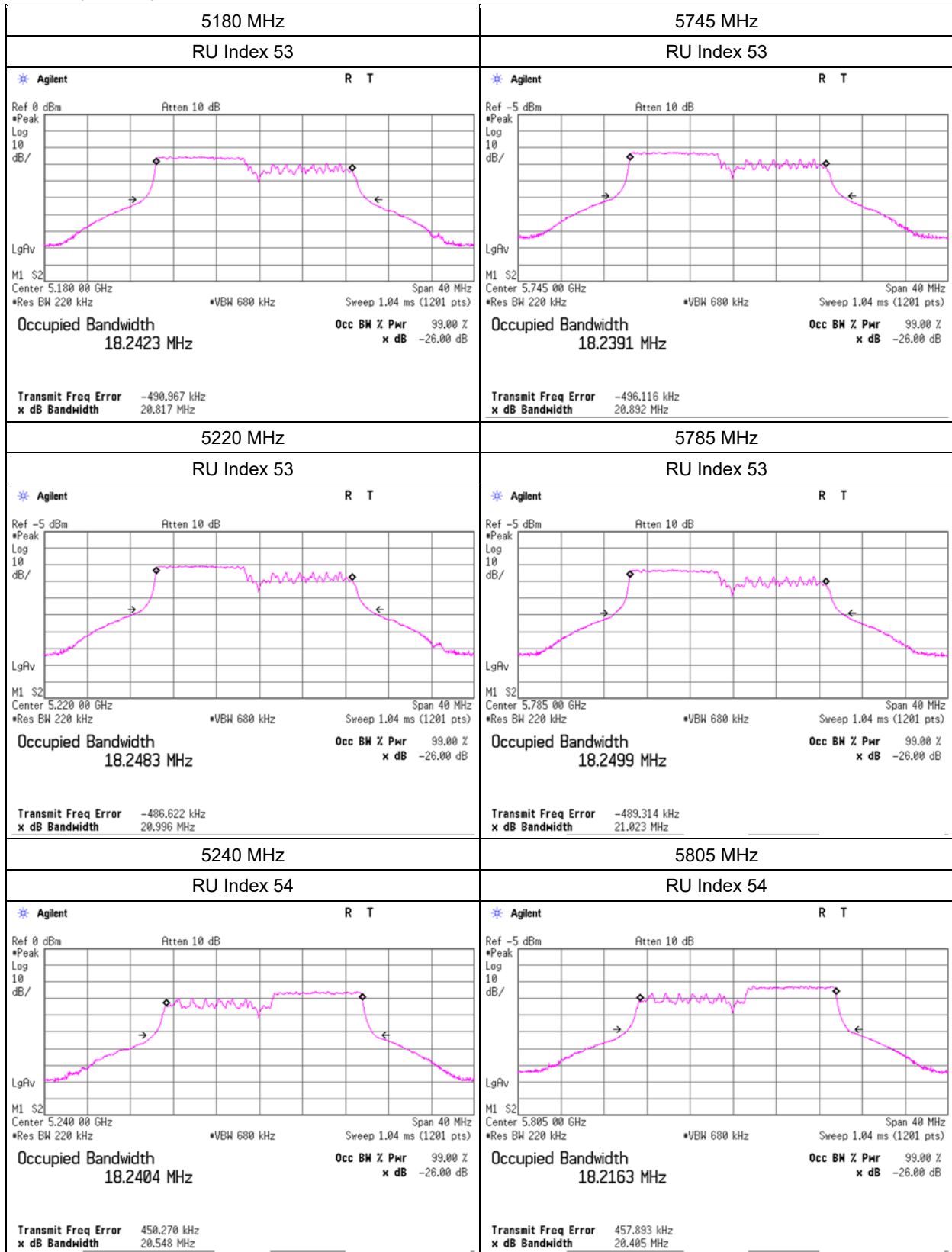
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



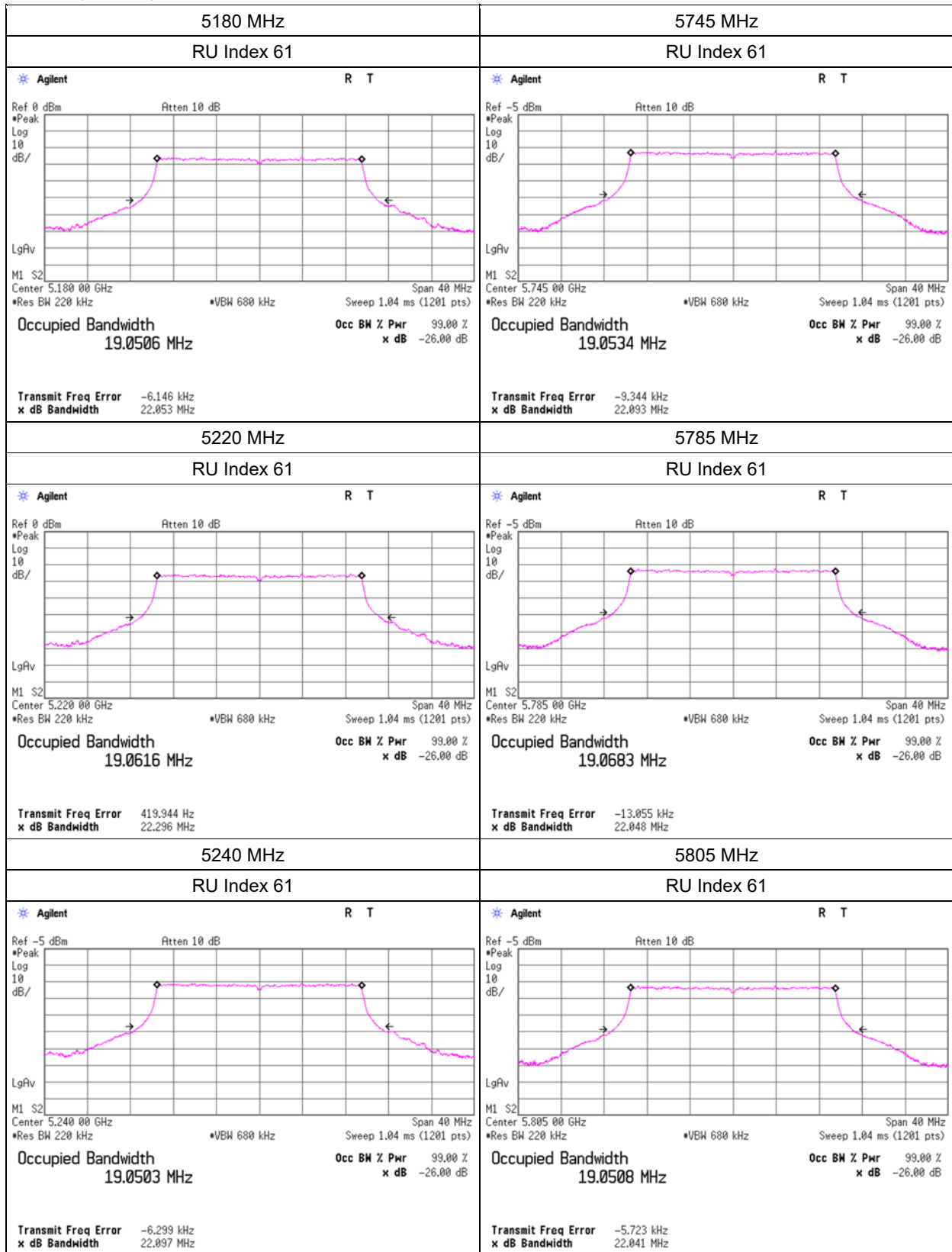
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



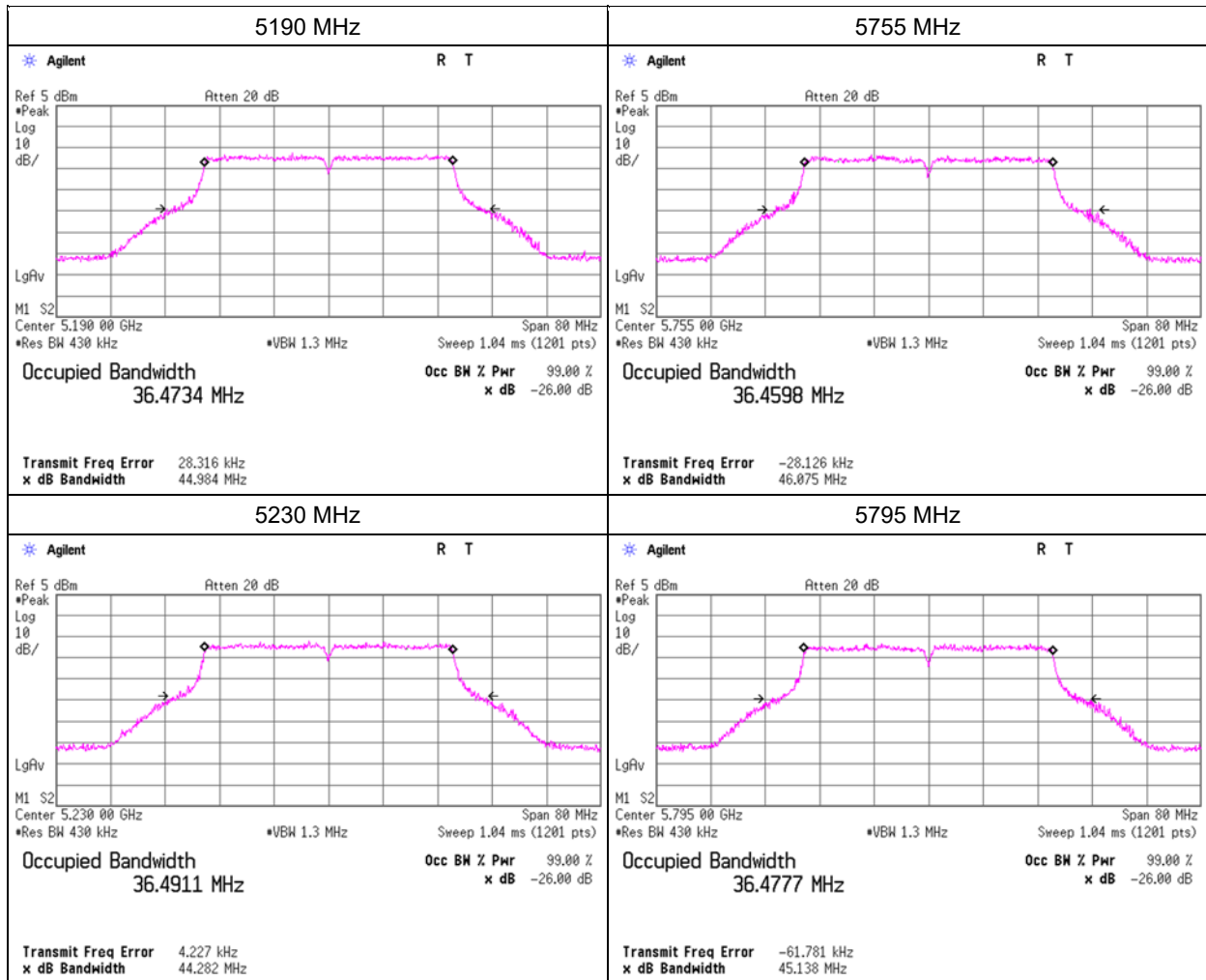
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



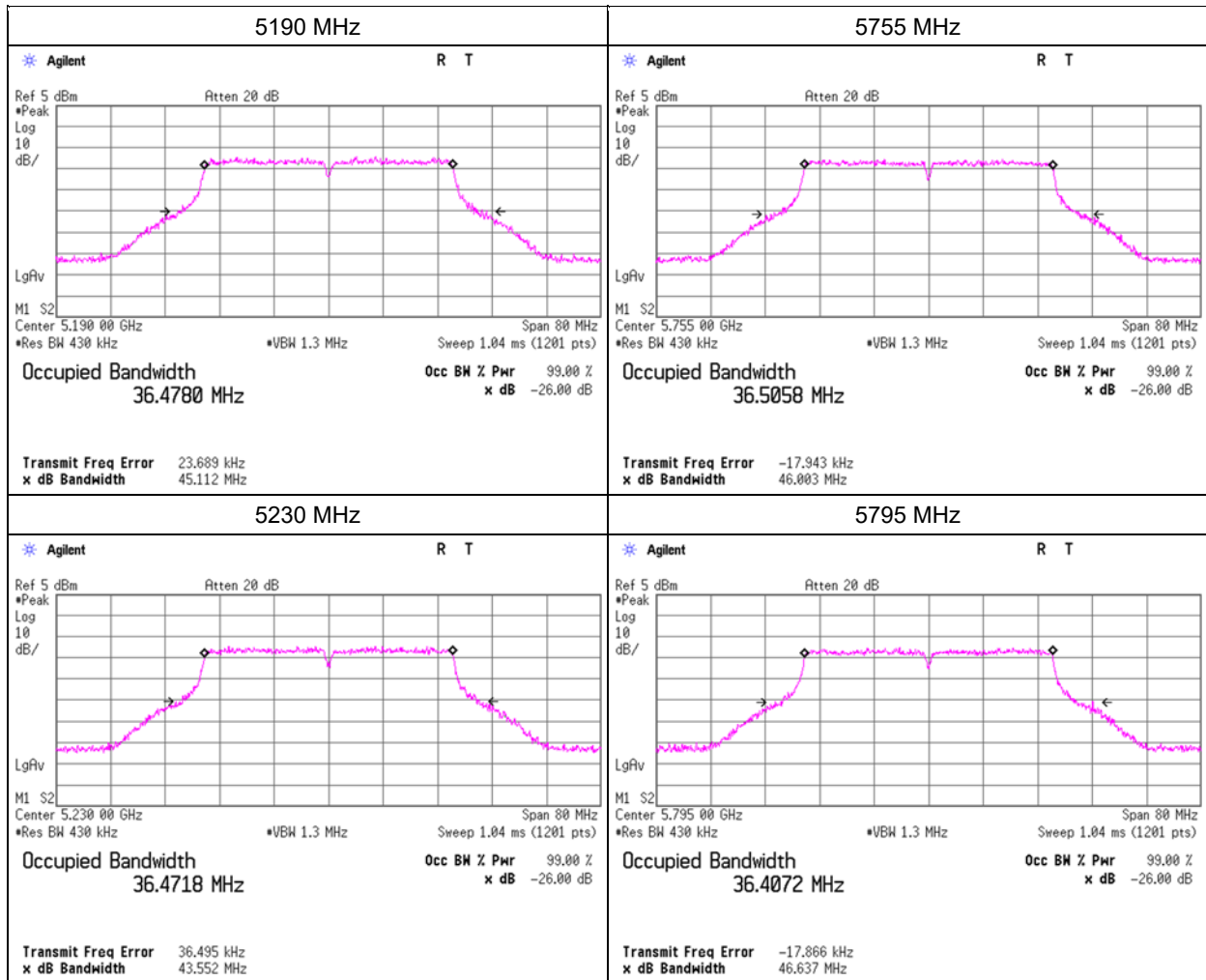
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11n-40



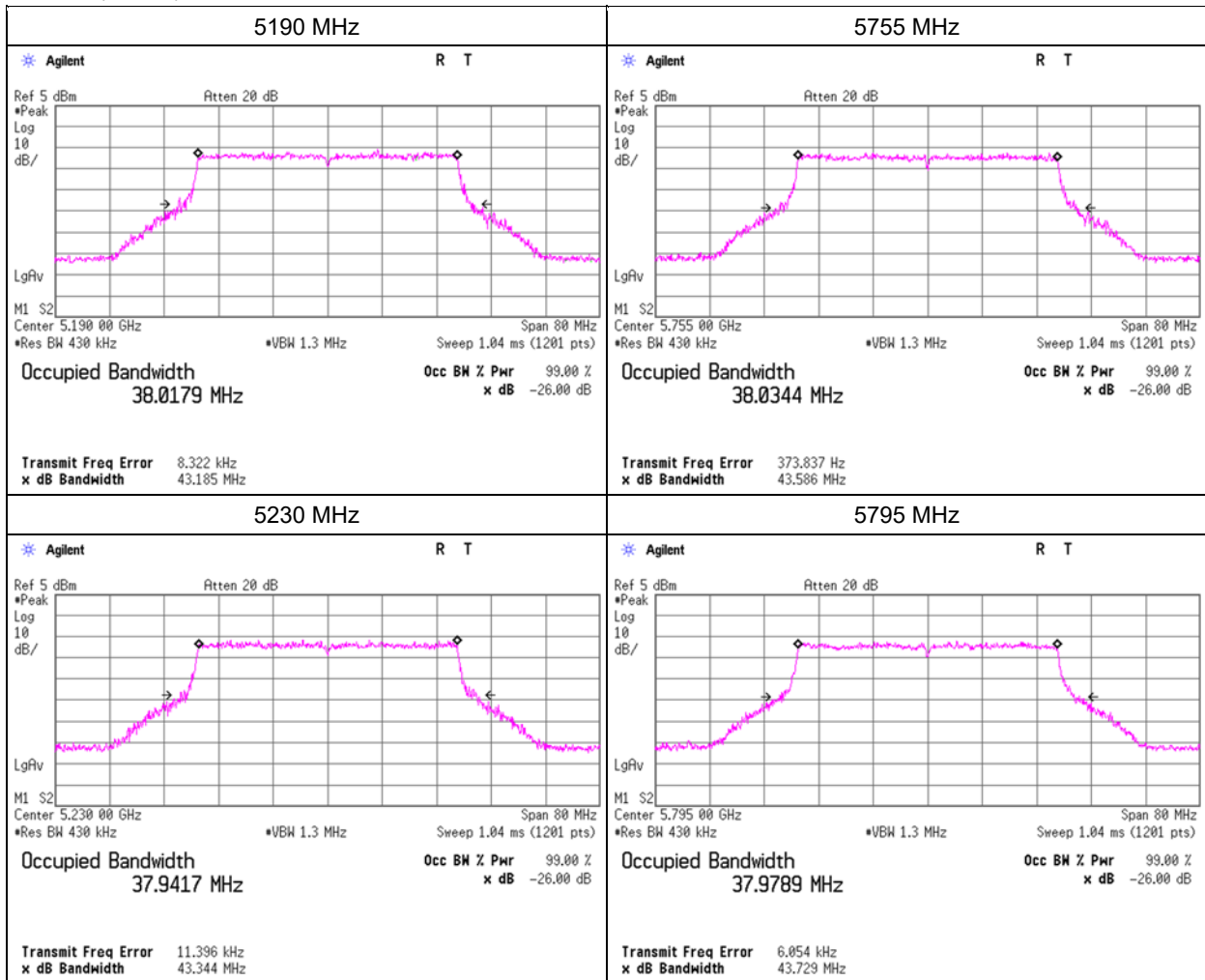
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ac-40



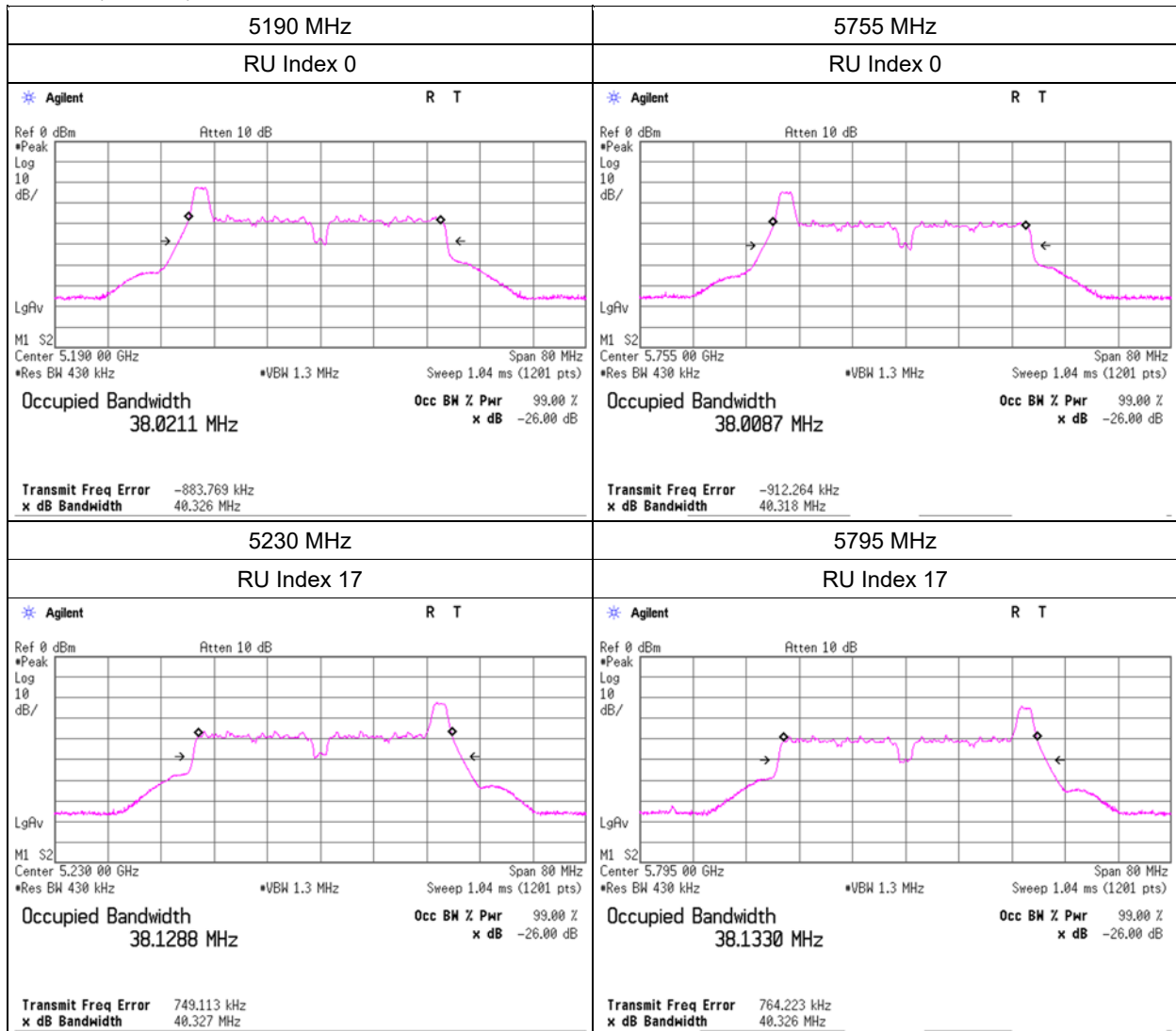
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDM)



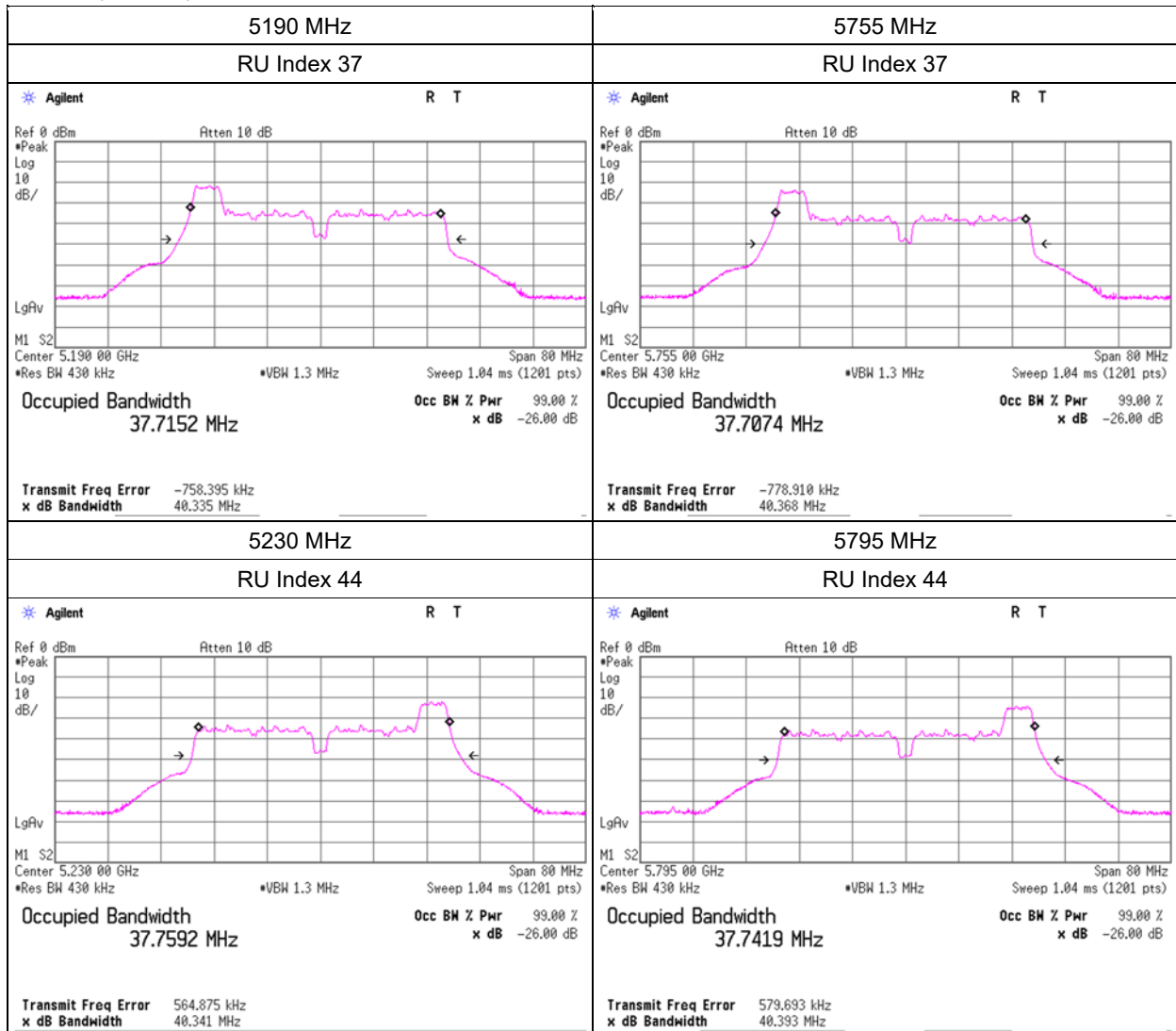
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



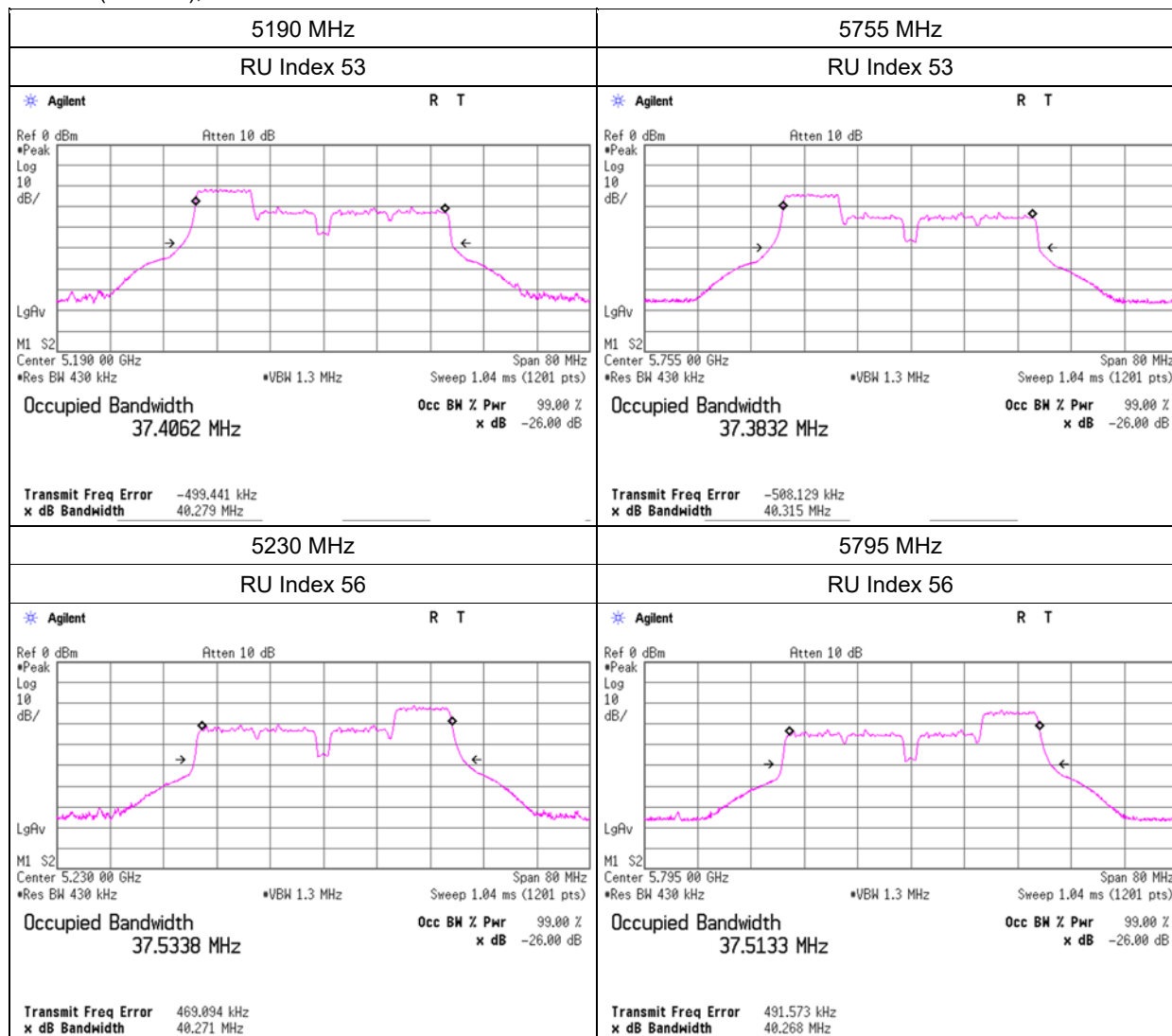
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



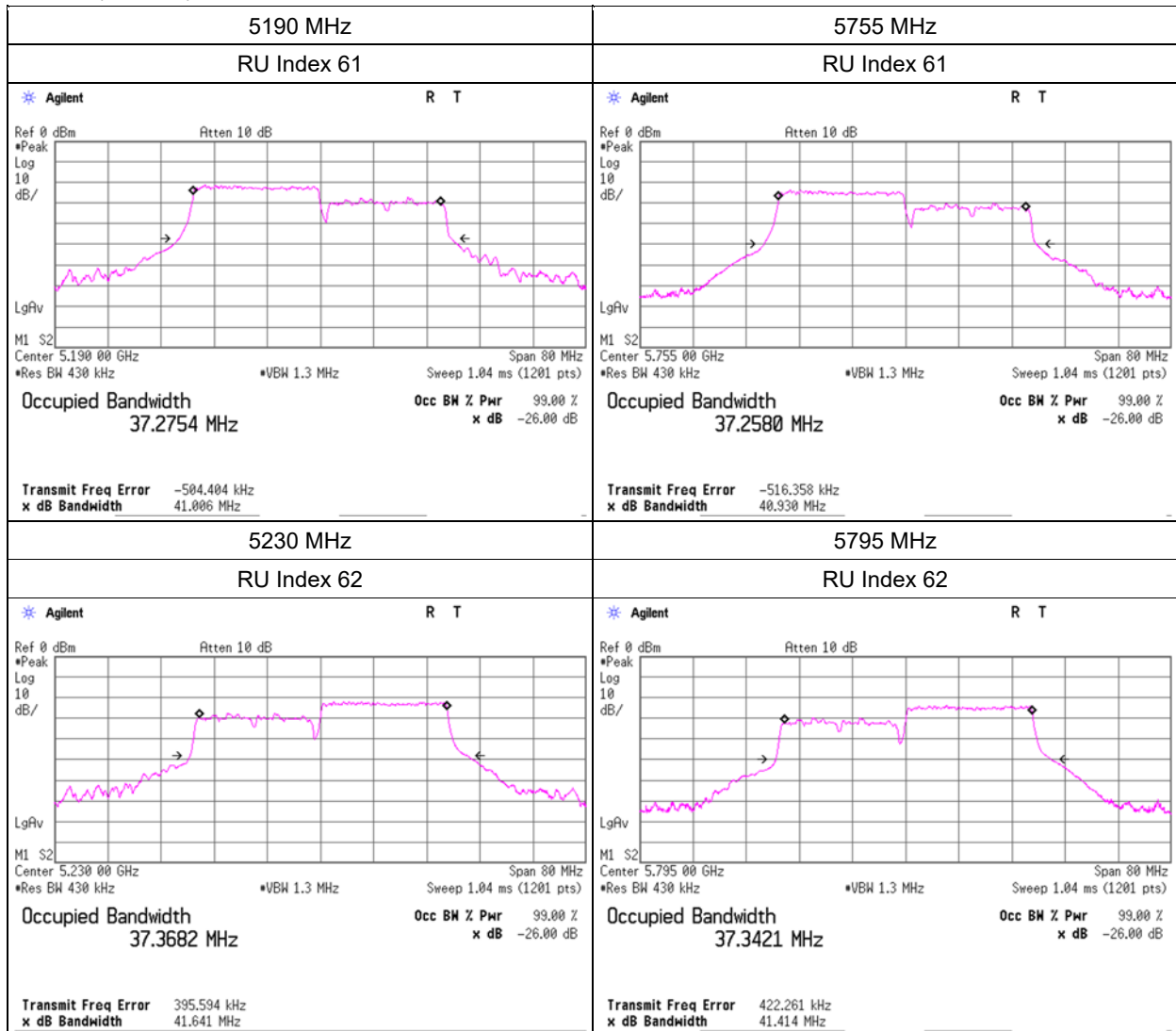
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



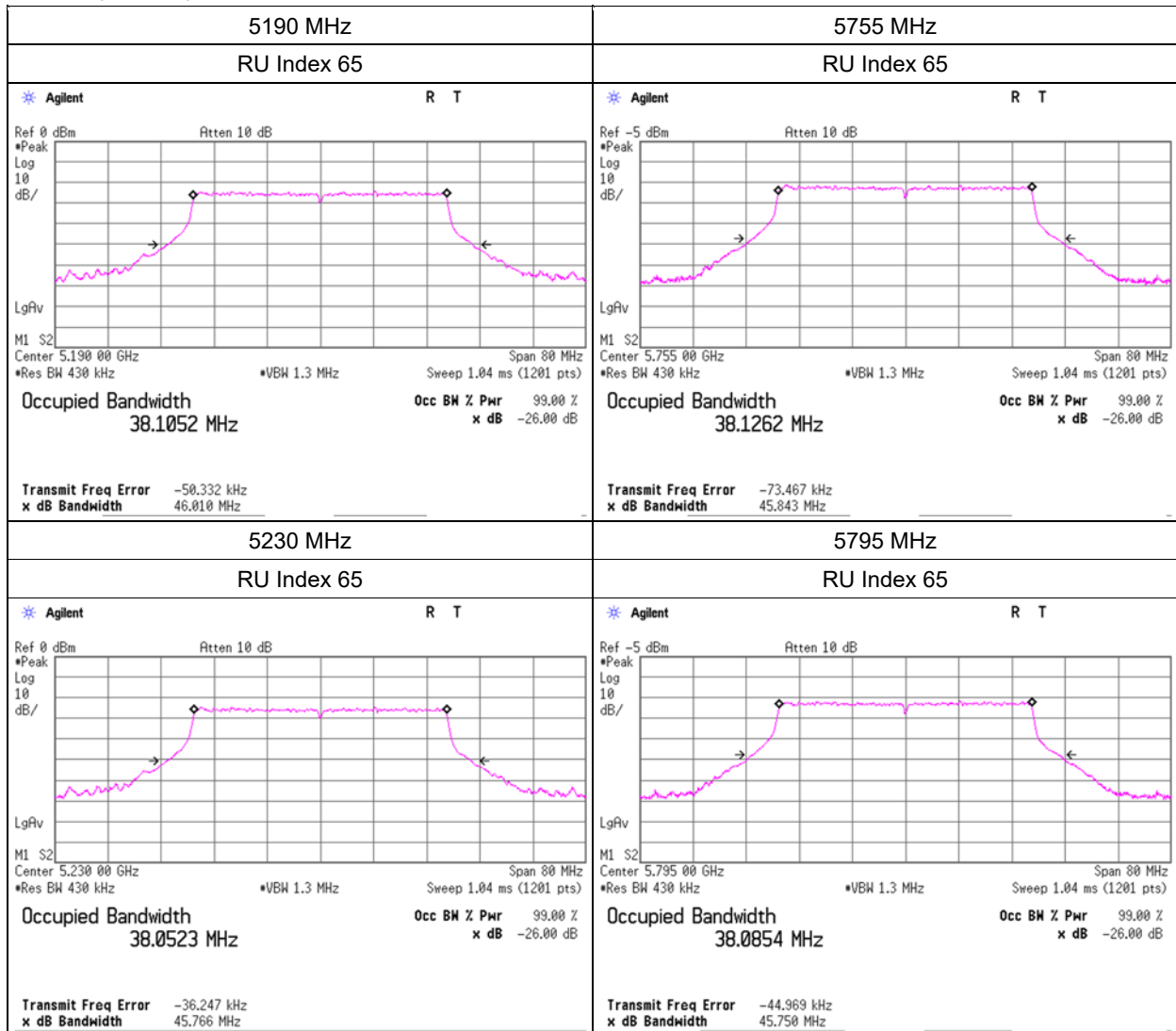
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



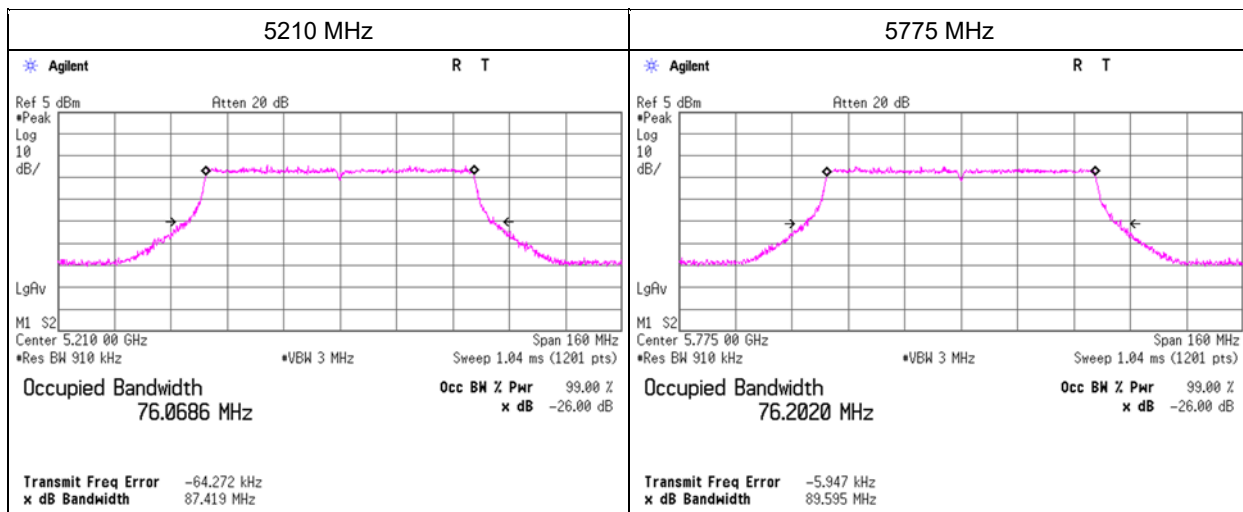
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



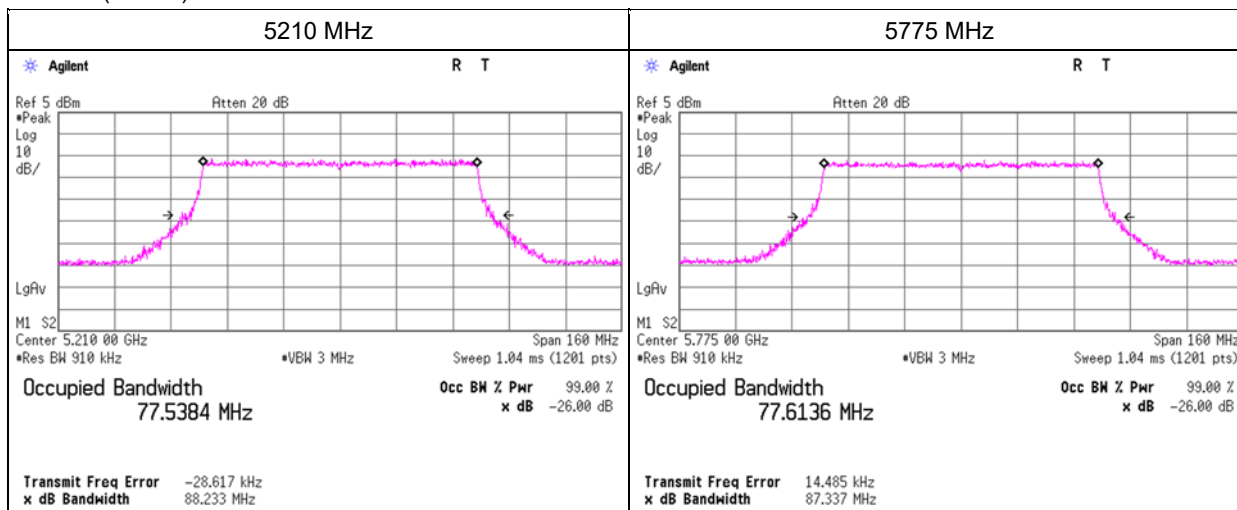
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ac-80



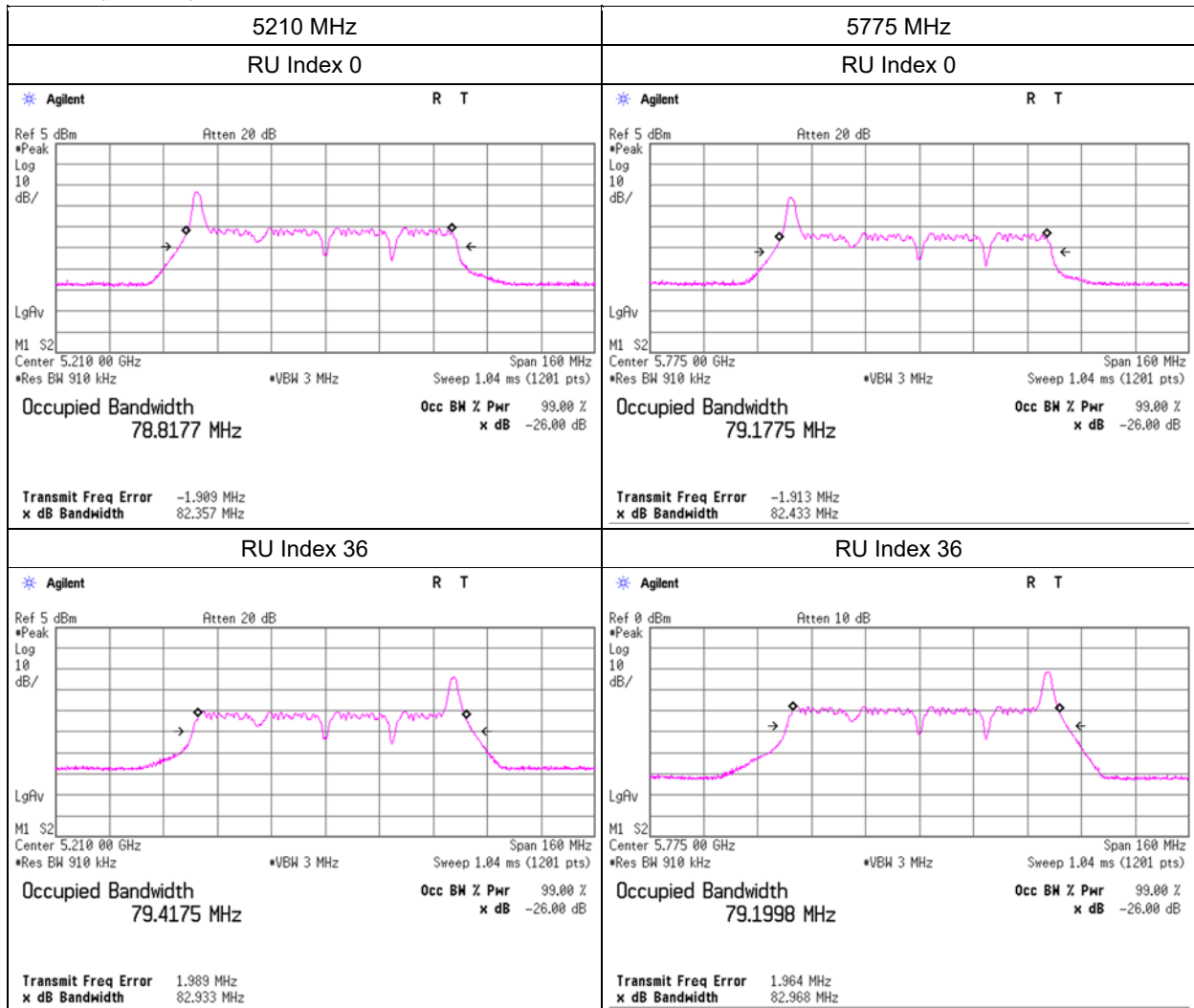
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-80(OFDM)



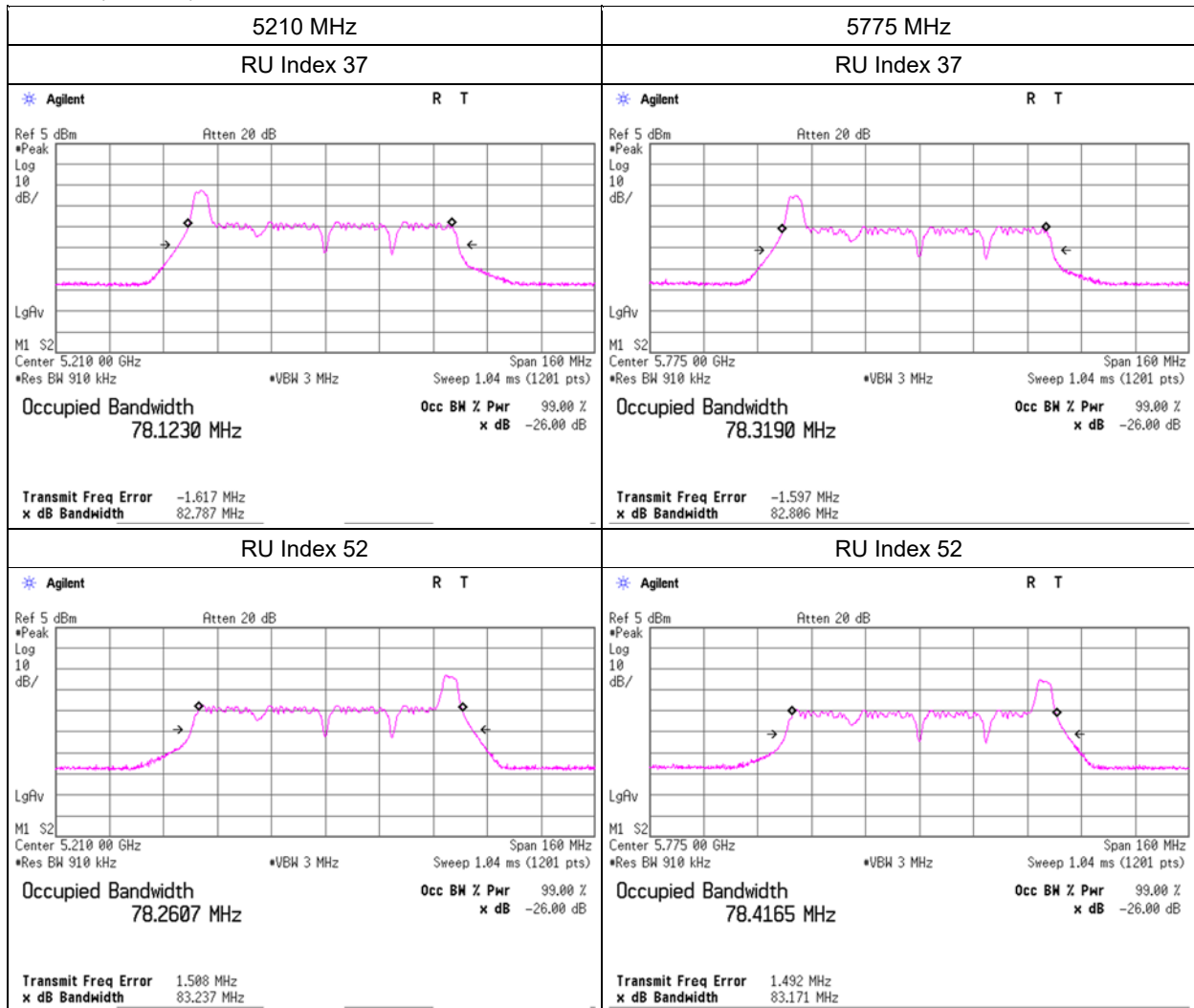
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-80(OFDMA), 26-tone RU



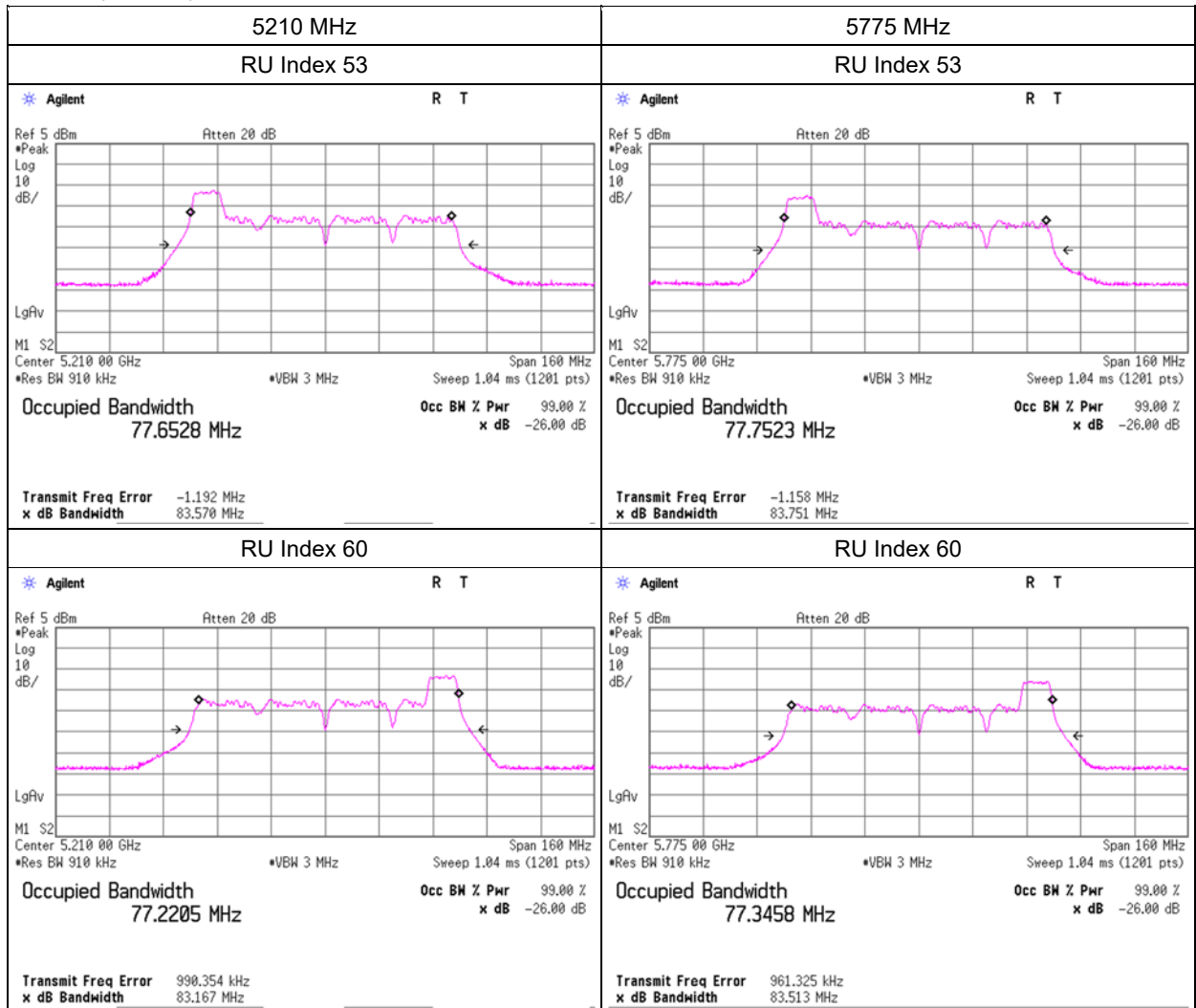
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-80(OFDMA), 52-tone RU



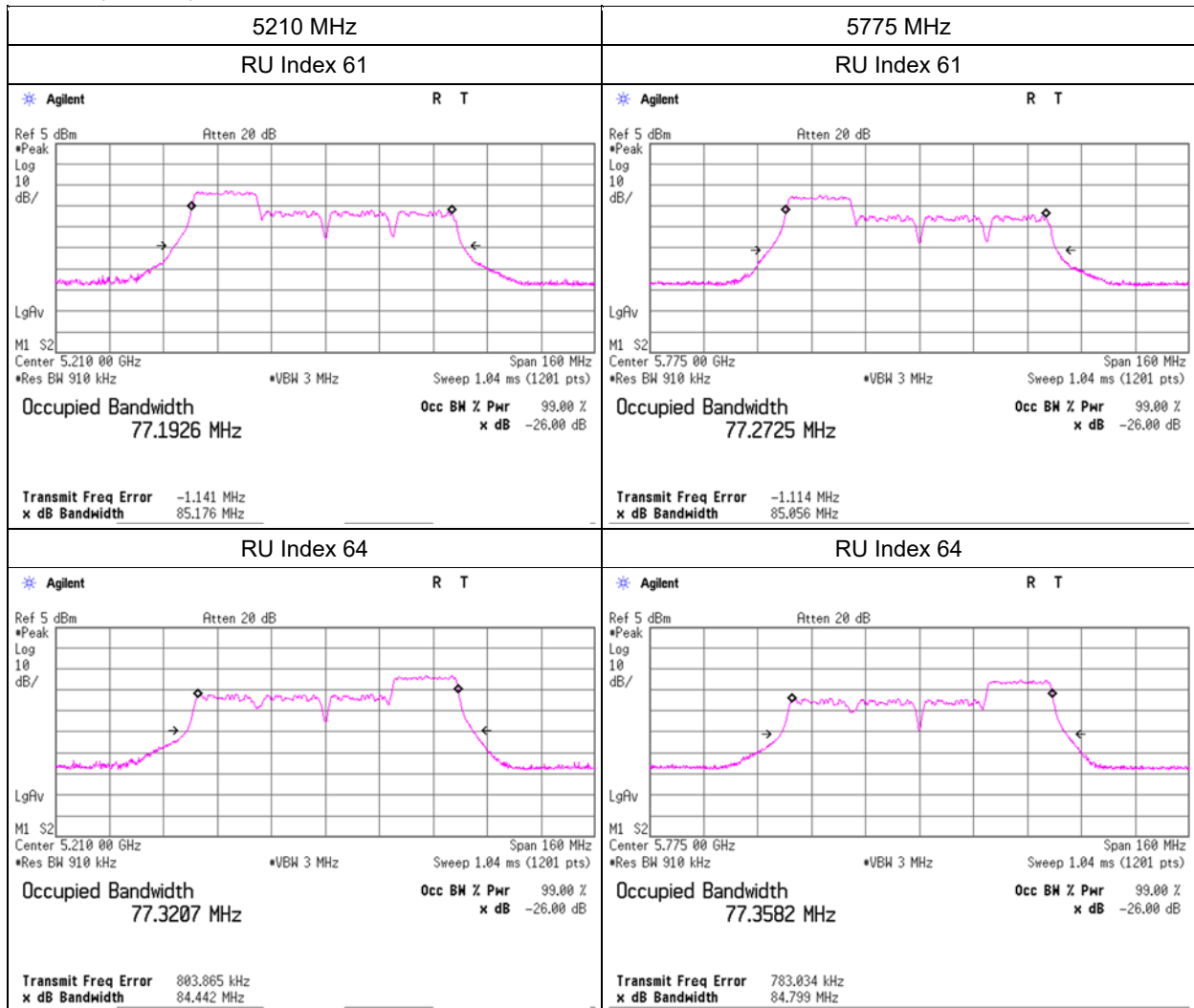
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



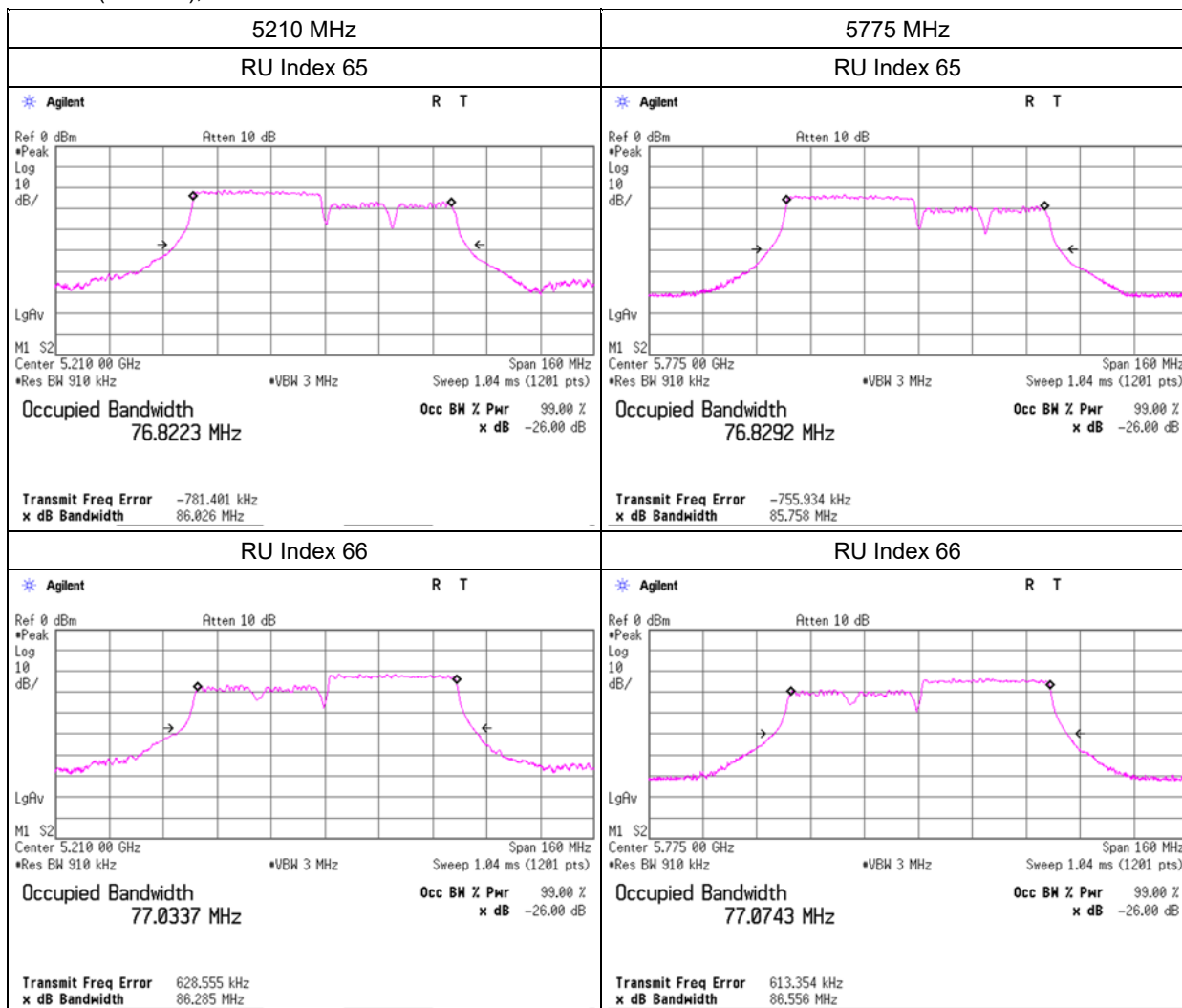
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



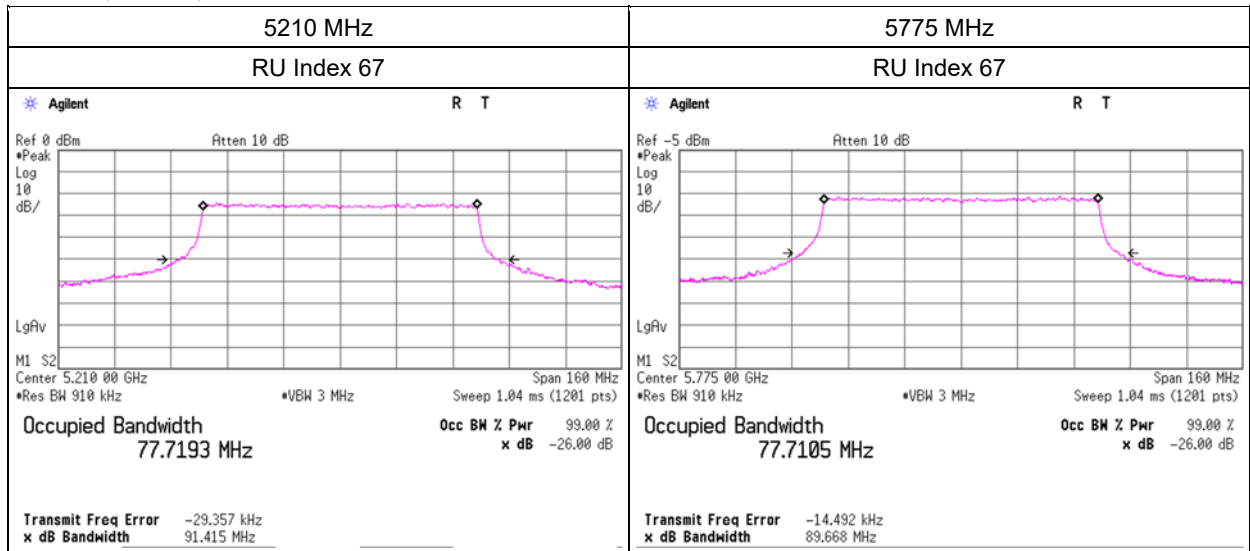
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	45 %RH	Tomoya Sone

11a

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	16.518	> 0.500
5785	16.511	> 0.500
5805	16.492	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	45 %RH	Tomoya Sone

11n-20

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	17.777	> 0.500
5785	17.777	> 0.500
5805	17.786	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	45 %RH	Tomoya Sone

11ac-20

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	17.785	> 0.500
5785	17.764	> 0.500
5805	17.770	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 27, 2025	MR8	24 deg.C	45 %RH	Tomoya Sone

11ax-20(OFDM)

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	19.143	> 0.500
5785	19.140	> 0.500
5805	19.129	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 28, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5745	0	2.082	> 0.500
5785	4	2.629	> 0.500
5805	8	2.069	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 28, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5745	37	4.091	> 0.500
5785	38	4.146	> 0.500
5805	40	4.088	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 28, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5745	53	8.405	> 0.500
5785	53	8.407	> 0.500
5805	54	8.400	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 29, 2025	MR8	24 deg.C	42 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5745	61	19.151	> 0.500
5785	61	19.129	> 0.500
5805	61	19.138	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
November 05, 2025	MR8	22 deg.C	48 %RH	Takafumi Noguchi

11n-40

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	36.554	> 0.500
5795	36.565	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
November 05, 2025	MR8	22 deg.C	48 %RH	Takafumi Noguchi

11ac-40

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	36.545	> 0.500
5795	36.557	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
November 05, 2025	MR8	22 deg.C	48 %RH	Takafumi Noguchi

11ax-40(OFDM)

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	38.276	> 0.500
5795	38.296	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 29, 2025	MR8	24 deg.C	42 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5755	0	2.092	> 0.500
5795	17	2.085	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 29, 2025	MR8	24 deg.C	42 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5755	37	4.095	> 0.500
5795	44	4.103	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 29, 2025	MR8	24 deg.C	42 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5755	53	8.310	> 0.500
5795	56	8.315	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 29, 2025	MR8	24 deg.C	42 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5755	61	18.919	> 0.500
5795	62	18.938	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 29, 2025	MR8	24 deg.C	42 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5755	65	38.258	> 0.500
5795	65	38.271	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
November 05, 2025	MR8	22 deg.C	48 %RH	Takafumi Noguchi

11ac-80

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5775	76.535	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
November 05, 2025	MR8	22 deg.C	48 %RH	Takafumi Noguchi

11ax-80(OFDM)

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5775	78.204	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 30, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

11ax-80(OFDMA), 26-tone RU

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5775	0	2.093	> 0.500
	36	2.082	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 30, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

11ax-80(OFDMA), 52-tone RU

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5775	37	4.094	> 0.500
	52	4.122	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 30, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5775	53	8.322	> 0.500
	60	8.305	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 30, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5775	61	18.945	> 0.500
	64	18.917	> 0.500

6 dB Bandwidth

Mode	Tx			
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Date	Test Site	Temperature	Humidity	Engineer
October 30, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5775	65	37.865	> 0.500
	66	37.855	> 0.500

6 dB Bandwidth

Mode	Tx			
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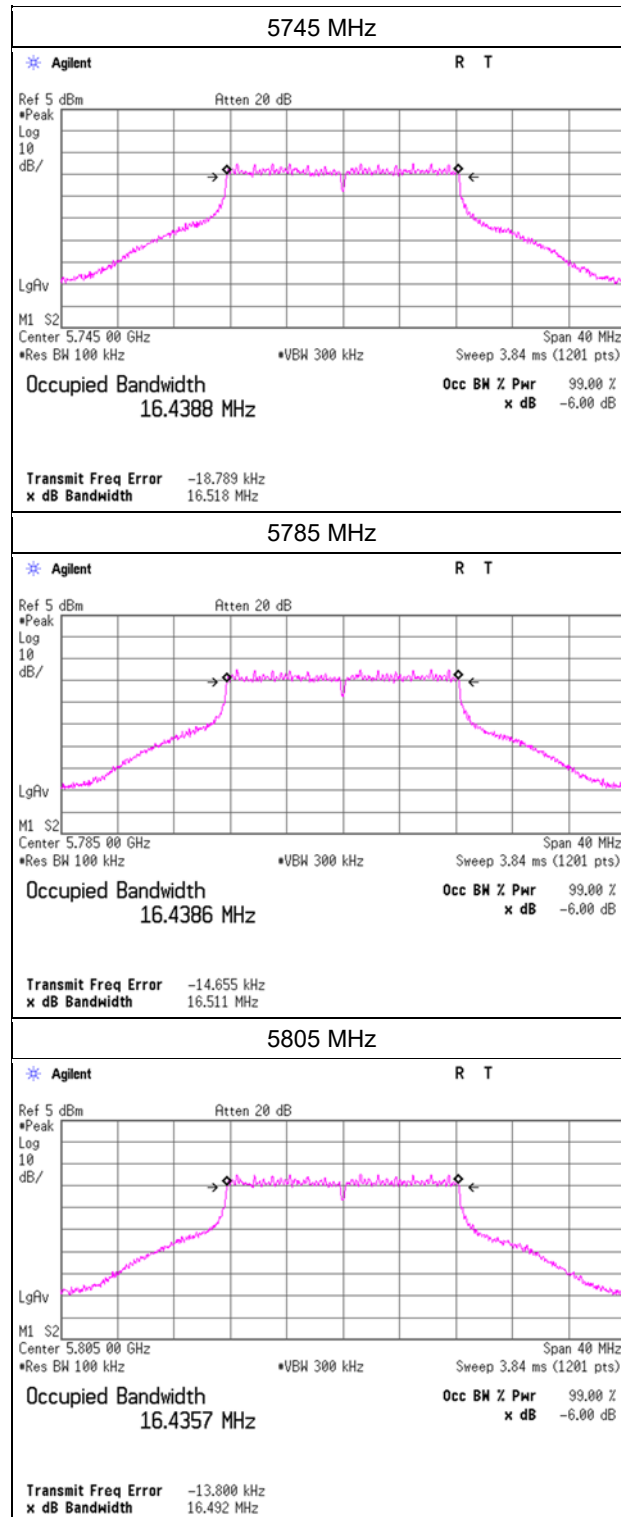
Date	Test Site	Temperature	Humidity	Engineer
October 30, 2025	MR8	23 deg.C	47 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	6 dB Bandwidth [MHz]	Limit [MHz]
5775	67	78.192	> 0.500

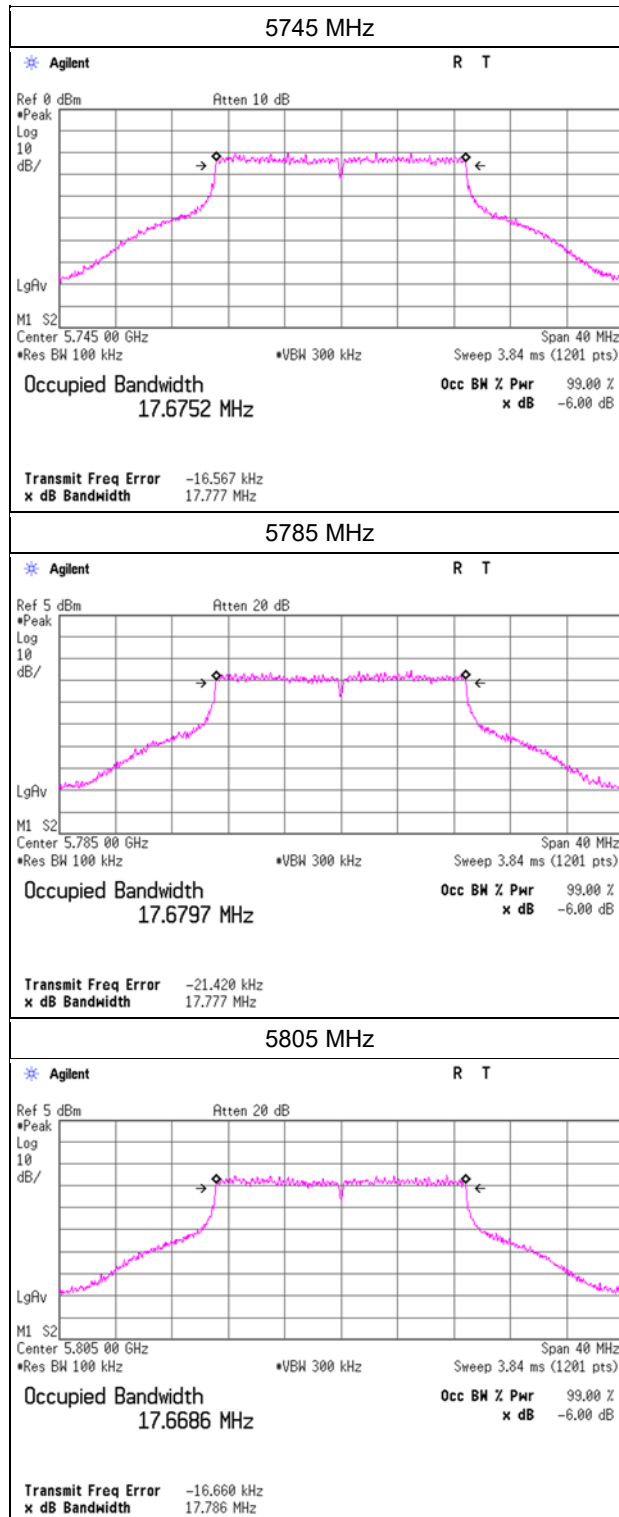
6 dB Bandwidth

11a



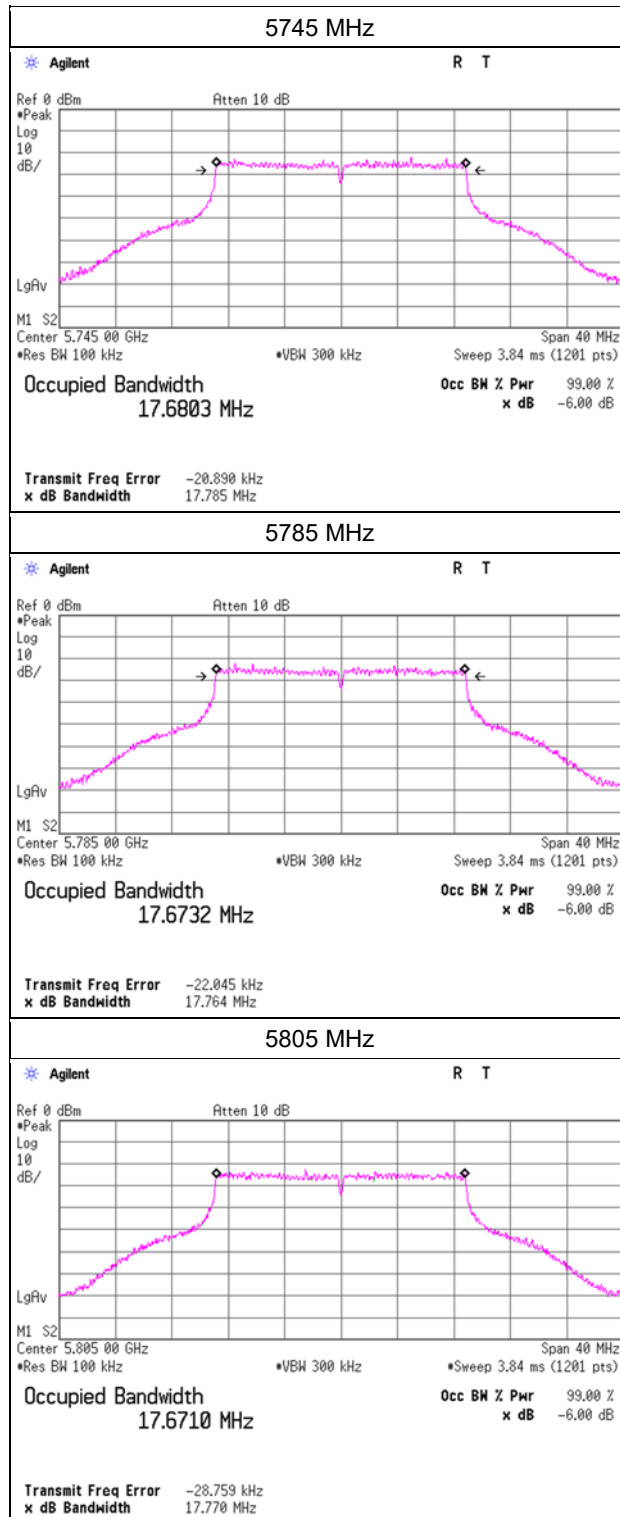
6 dB Bandwidth

11n-20



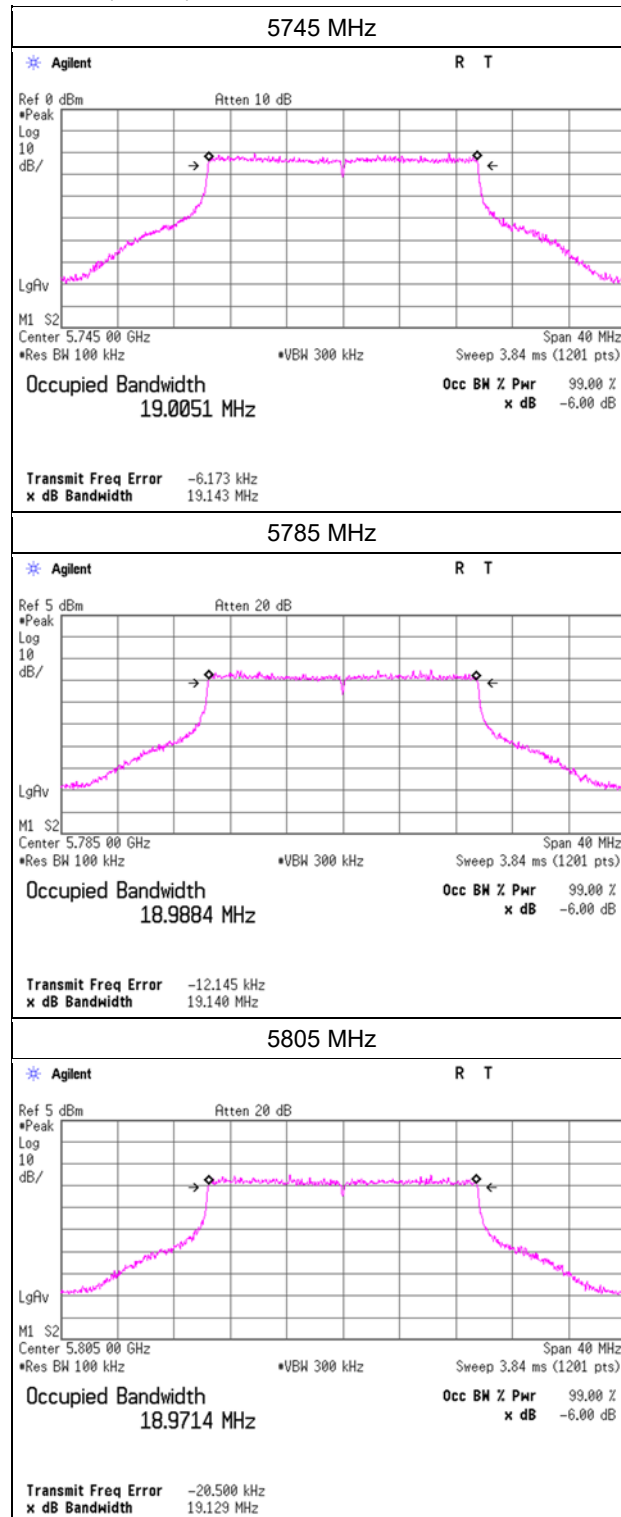
6 dB Bandwidth

11ac-20



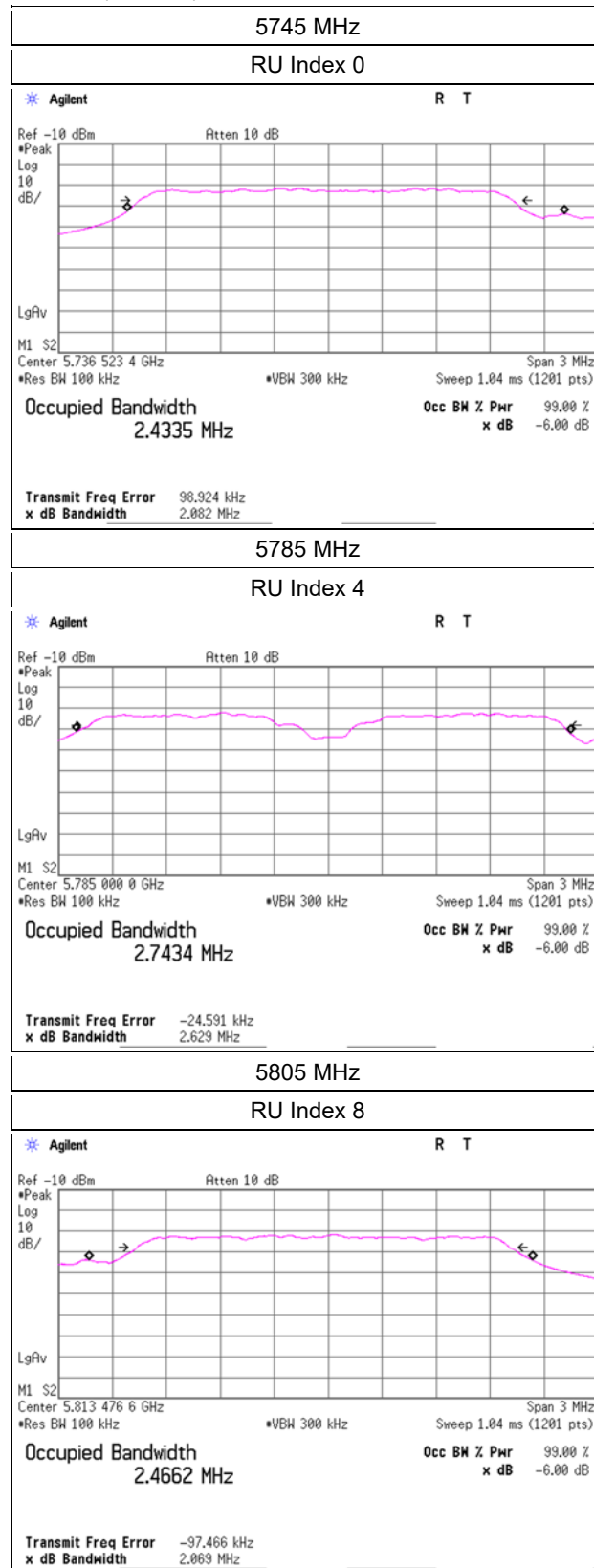
6 dB Bandwidth

11ax-20(OFDM)



6 dB Bandwidth

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



6 dB Bandwidth

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

