



CERTIFICATION TEST REPORT

Report Number. : U-4791479704-FR5V3

Applicant : SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA

Model : WCF933M

FCC ID : A3LWCF933M

IC : 649E-WCF933M

EUT Description : DTS/UNII a/b/g/n/ac/ax module and BT/BLE

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E
6 GHz LOW POWER INDOOR CLIENT (6XD)
INDUSTRY CANADA RSS-248 Issue 3
INDUSTRY CANADA RSS-GEN Issue 5

Date Of Issue:
2025-02-04

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-01-17	Initial issue	Jaehyeok Bang
V2	2025-01-23	Updated to address TCB's question	Jaehyeok Bang
V3	2025-02-04	Corrected typos	Jaehyeok Bang

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: DTS/UNII a/b/g/n/ac/ax module and BT/BLE

MODEL NUMBER: WCF933M

SERIAL NUMBER: 4C573957A86C(1) (CONDUCTED);
4C573957A868(3), 4C573957A85E(5) (RADIATED);

DATE TESTED: 2024-12-03 ~ 2025-01-14

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Complies
INDUSTRY CANADA RSS-248 Issue 3	Complies
INDUSTRY CANADA RSS-GEN Issue 5	Complies

UL KOREA LTD. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL KOREA LTD. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL KOREA LTD. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL KOREA LTD. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL KOREA LTD. By:



Changmin Kim
Senior Laboratory Engineer
UL Korea, Ltd.

Tested By:



Jaehyeok Bang
Laboratory Test Engineer
UL Korea, Ltd.

2. MANUFACTURER INFORMATION

Applicant Information

Company Name: SAMSUNG ELECTRONICS CO., LTD.
Address: 129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA

Manufacturer Information 1

Company Name: Chengdu Xuguang Technology Co., Ltd.
Address: No.86 2nd Section, Park Road, Longquanyi District, Chengdu City,
Sichuan Province, P.R.China

Manufacturer Information 2

Company Name: CHEMTROVINA COMPANY LIMITED
Address: Nhon Trach 2 – Loc Khang IZ, Hiep Phuoc Town, Nhon Trach
District,, Dong Nai Province, Vietnam

Manufacturer Information 3

Company Name: CHEMTRONICS CO., LTD.
Address: 35, Buk-ri, Namsa-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do,
Korea

Manufacturer Information 4

Company Name: SJIT CO., LTD.
Address: #54-11, Dongtanhana 1 gil, Hwaseong-si, Gyeonggi-Do, Korea

Company Name: SJIT VINA Co., Ltd
Address: Lot X2, Ho Nai Industrial Zone, Ho Nai 3 Commune, Trang Bom
District, Dong Nai Province, Vietnam

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC 47 CFR Part 2.
2. FCC 47 CFR Part 15.
3. KDB 789033 D02 General UNII Test Procedures New Rules v02r01
4. KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
5. KDB 662911 D01 v02r01
6. IC RSS-GEN Issue 5.
7. IC RSS-248 Issue 3.
8. ANSI C63.10-2020.

4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 42, Obongsandan 1-ro, Uiwang-si, Gyeonggi-do, Republic of Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

42, Obongsandan 1-ro	
☒	Chamber 1
☒	Chamber 2

Used ISED Test Site Reg.(company number): 32001
CAB Identifier: KR0161

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-1087. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2022/05/TL-1087-Cert-New.pdf>

5. CALIBRATION AND UNCERTAINTY

5.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

5.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

$$\begin{aligned} \text{AC Corrected Reading (dBuV)} &= \text{Measured Voltage (dBuV)} + \text{Extension Cord} \\ &\text{Loss (dB)} + \text{Cable Loss (dB)} \\ 44.72 \text{ dBuV} &= 34.72 \text{ dBuV} + 9.9 \text{ dB} + 0.1 \text{ dB} \end{aligned}$$

5.3. MEASUREMENT UNCERTAINTY

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

Common Items

PARAMETER	UNCERTAINTY
RF Output Power	0.94 dB
Power Spectral Density	0.85 dB
Occupied Bandwidth	0.07 %
AC Power Line Conducted Emissions	2.32 dB

Uncertainty figures are valid to a confidence level of 95%, k=2

Chamber 1

PARAMETER	UNCERTAINTY
Radiated Disturbance, 30 MHz to 1 GHz	3.64 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.38 dB
Radiated Disturbance, Above 18 GHz	6.23 dB

Uncertainty figures are valid to a confidence level of 95%, k=2

Chamber 2

PARAMETER	UNCERTAINTY
Radiated Disturbance, 9 kHz to 30 MHz	1.66 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.39 dB

Uncertainty figures are valid to a confidence level of 95%, k=2

5.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Clause 4.3.3 in IEC Guide 115:2023.
Measurement Uncertainty is not applied when providing statements of conformity in accordance with IEC Guide 115:2023, 4.3.3

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a DTS/UNII a/b/g/n/ac/ax module and BT/BLE.
This test report addresses the NII (WLAN) operational mode.

Representative model	Software	Hardware Type	Difference
WCF933M	Same	Type1	Basic
		Type2	1) Change the gravity sensor position 2) Add Illuminance Sensor dualization Parts

Note1. H/W changes that are not RF related. Spot-Check test was performed on Type2.
The hardware Type 1 was used for final testing and is representative of the test results in this report.

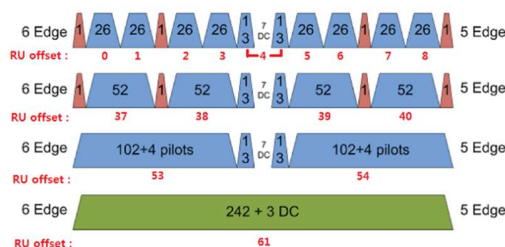
WiFi operating mode

Frequency range	Mode	ANT0	ANT1
6GHz (5955 MHz ~ 7115 MHz)	802.11a SISO	TX/RX	TX/RX
	802.11ax MIMO	TX/RX	

802.11ax RU allocations

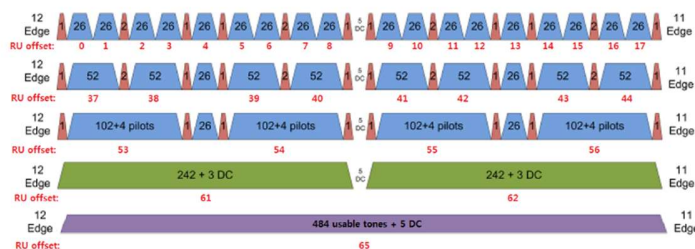
- HE 20 Mode -

20 MHz

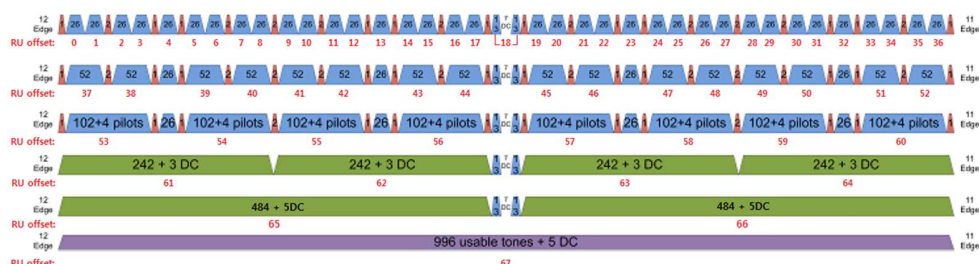


- HE 40 Mode -

40 MHz



- HE 80(996T) -



Test RU offset for tones in each modes

Mode	Tones	RU offset
HE20	26T	0
		4
		8
	52T	37
		38
HE40	106T	40
		53
		54
	242T / SU Note	61 / -
		62
HE80	484T / SU Note	63 / -
		64
		65
	996T / SU Note	66
		67 / -

Note: Full RU(Resource Unit) mode and SU(Single Unit) mode have no difference in physical waveform. This report has been reported the SU mode with highest output power in MIMO.

MAXIMUM OUTPUT POWER

The transmitter has a maximum total conducted EIRP output power as follows:

- Low Power client mode (LPI)

Band	Frequency Range [MHz]	Mode	Output Power	Output Power	Antenna Gain	e.i.r.p Note1
			[dBm]	[mW]	[dBi]	[dBm]
UNII-5	5955 – 6415	802.11a SISO	6.42	4.39	1.77	8.19
		802.11ax(HE20) MIMO	4.53	2.84	4.75	9.28
		802.11ax(HE40) MIMO	5.81	3.81	4.75	10.56
		802.11ax(HE80) MIMO	9.02	7.98	4.75	13.77
UNII-6	6435 – 6515	802.11a SISO	6.62	4.59	1.62	8.24
		802.11ax(HE20) MIMO	4.47	2.80	4.16	8.63
		802.11ax(HE40) MIMO	6.20	4.17	4.16	10.36
		802.11ax(HE80) MIMO	9.34	8.59	4.16	13.50
UNII-7	6535 – 6875	802.11a SISO	7.67	5.85	0.65	8.32
		802.11ax(HE20) MIMO	6.75	4.73	4.16	10.91
		802.11ax(HE40) MIMO	6.07	4.05	4.16	10.23
		802.11ax(HE80) MIMO	9.17	8.26	4.16	13.33
UNII-8	6895 - 7115	802.11a SISO	9.79	9.53	-1.78	8.01
		802.11ax(HE20) MIMO	7.18	5.22	1.34	8.52
		802.11ax(HE40) MIMO	8.87	7.71	1.34	10.21
		802.11ax(HE80) MIMO	11.99	15.81	1.34	13.33

Note 1: e.i.r.p = Output Power[dBm] + Antenna gain[dBi]

6.2. DESCRIPTION OF AVAILABLE ANTENNAS

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

**The internal antenna was Permanently attached.
Therefore this E.U.T Complies with the requirement of §15.203.**

The radio utilizes a internal antenna, with a maximum gain of:

UNII Band	Frequency Range[MHz]	ANT0 Gain [dBi]	ANT1 Gain [dBi]	Correlated Chains Directional Gain[dBi]
5	5925 – 6425	1.70	1.77	4.75
6	6425 – 6525	1.62	0.65	4.16
7	6525 – 6875	1.62	0.65	4.16
8	6875 – 7125	-1.56	-1.78	1.34

For CBP test, with a minimum gain of:

UNII Band & Range[MHz]	Frequency [MHz]	ANT0 Gain [dBi]	ANT1 Gain [dBi]	Minimum Gain[dBi]
5(5925 – 6425)	5925	1.68	1.77	1.51
	6075	1.59	1.58	
	6225	1.51	1.67	
	6375	1.70	1.72	
6(6425 – 6525)	6525	1.62	0.65	0.65
7(6525 – 6875)	6525	1.62	0.65	-0.75
	6675	0.07	-0.59	
	6825	-0.58	-0.75	
8(6875 – 7125)	6975	-1.56	-1.78	-2.63
	7125	-2.29	-2.63	

Directional gain for the MIMO operations is determined using KDB 662911 D01 Multiple Transmitter Output section F (2)(d)(1) for *Unequal antenna gains, with equal transmit powers*. The gain is calculated using the formula for correlated transmissions across the two transmit antennas.

Correlated Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi.

Sample calculation for this device with $N_{ANT} = 2$

UNII-5 band's Correlated Directional gain = $10 \log[(10^{1.70/20} + 10^{1.77/20})^2 / 2] = 4.75$ dBi

6.3. WORST-CASE CONFIGURATION AND MODE

In 802.11a, both SISO ANT0 and ANT1 test were performed for radiated band edge and spurious emission tests.

In 802.11ax, both SISO and MIMO have been investigated and confirmed MIMO was the worst case set for radiated band edge and spurious emission tests.

Worst case of antenna axis:

ANT0	ANT1	MIMO
X		

The fundamentals of the EUT were investigated in three orthogonal orientations X, Y and Z on 1TX SISO and 2TX MIMO mode. It was determined that X orientation and Open condition were the worst-case for 1TX SISO and 2TX MIMO mode.

Radiated harmonics spurious 1~18 GHz Low/Mid/High channels, 18-40GHz were performed with the EUT set at the 2TX MIMO mode. Radiated emission below 1GHz and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

For Radiated spurious test, 802.11ax HE20(242 tone) 2TX mode has similar or higher PSD results than other modes and therefore, it was set for full test. Spot-check was performed in 802.11ax HE40(484 tone) & 802.11ax HE80(996 tone) 2TX RU modes.

For Radiated band-edge test, 802.11a SISO ANT1&2, 802.11ax 2TX Full-RU mode were fully tested except 802.11ax 2TX partial RU modes. 802.11ax Full-RU mode resulted in radiated band-edge test is worse than partial RU modes; therefore, only Full-RU mode was reported.

For output power and PSD tests, 802.11ax mode were investigated among all different tones and following RU tones were set for final test:

Output power test:

HE20/HE40/HE80 were tested with partial RU mode and all Full-RU tones except SU mode as it has same or low power level and same physical waveform as Full-RU mode.

In case of 26dB Bandwidth, it was tested at the Full-RU Mode for each bandwidth. (Worst case)

PSD/ In-Band Emission test:

Power Class	Worst case RU Mode
	LPI
HE20	242T(Full-RU)
HE40	484T(Full-RU)
HE80	996T(Full-RU)

In-Band Emission: Full-RU & partial RU modes are full tested and partial RU modes are reported for worst case scenarios. Because Full-RU mode is the worst case than partial RU modes. It was based on conducted PSD level without antenna gain.

Based on the baseline scan, the worst-case data rates were:

802.11a mode: 6 Mbps 1Tx

802.11ax HE20 mode: MCS0 2Tx

802.11ax HE40 mode: MCS0 2Tx

802.11ax HE80 mode: MCS0 2Tx

6.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Test Jig	MediaTek	-	-	N/A
Laptop	Lenovo	TP00136D	PF-4M6STB	N/A
Charger	Lenovo	ADLX45YCC3G	8SSA10R16915C2TJ	N/A

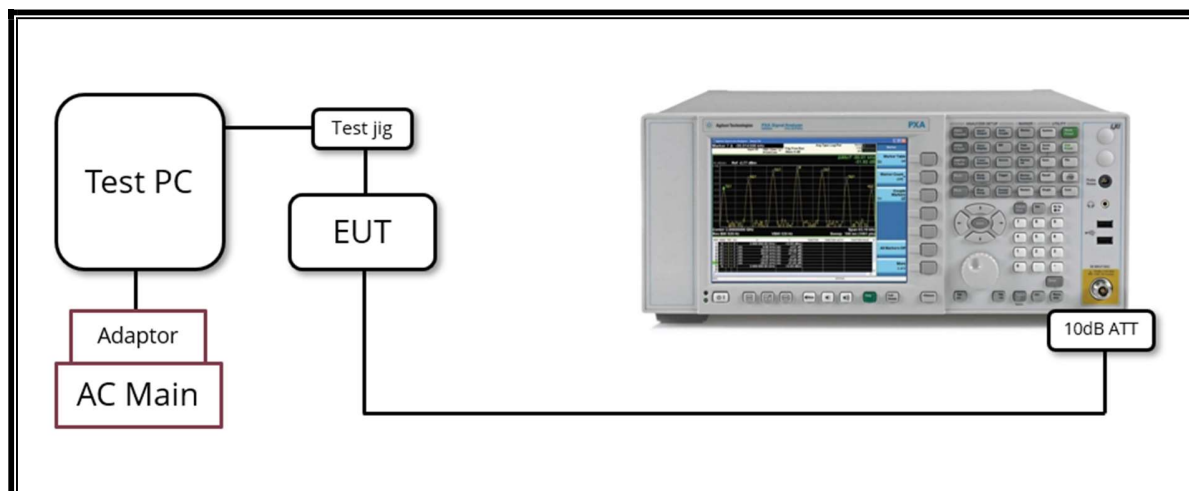
I/O CABLE

I/O Cable List						
Cable No.	Port	# of identical ports	Connector Type	Cable Type	Cable Length (cm)	Remarks
1	DC Power and Data	1	24 pin	Unshielded	20 cm	N/A

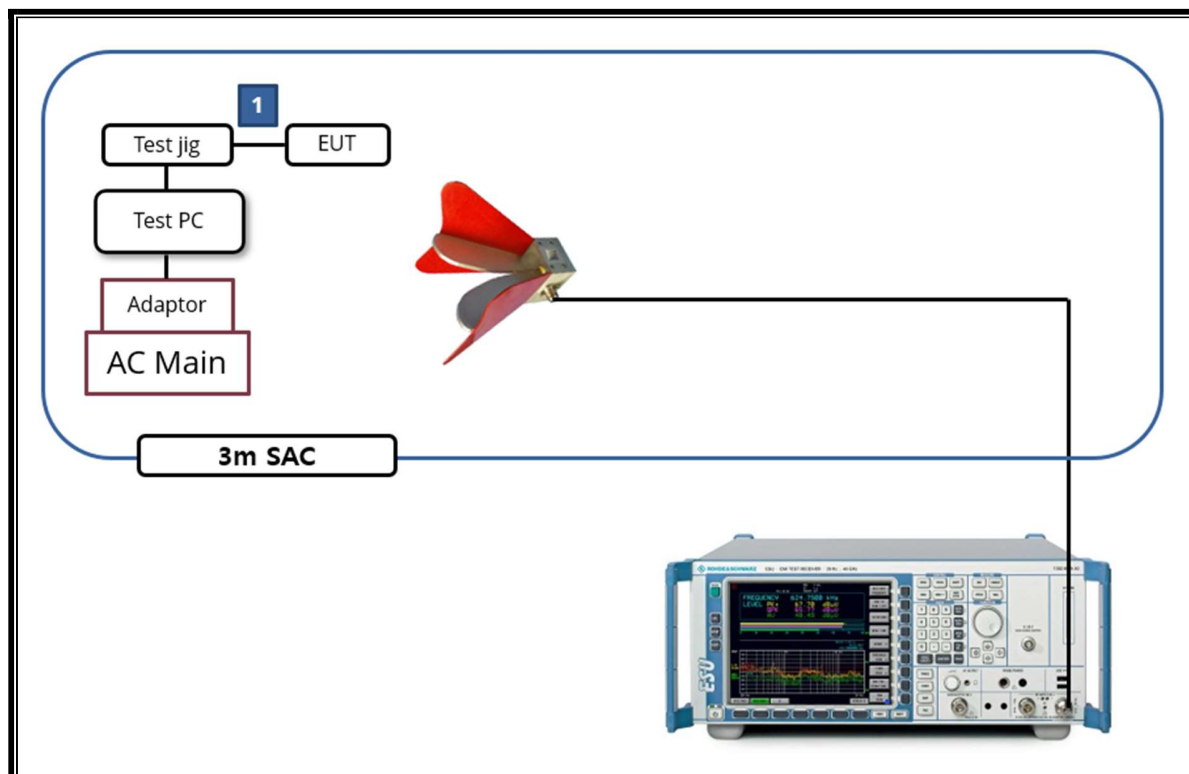
TEST SETUP

The EUT is a stand-alone unit during the tests.
Test software in exercised the EUT to enable NII mode.

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



7. TEST AND MEASUREMENT EQUIPMENT

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

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due date
Spectrum Analyzer	KEYSIGHT	N9030B	MY57143717	2024-07-23	2025-07-23
EMI Test Receiver	Rohde & Schwarz	ESW44	103297	2024-07-18	2025-07-18
EMI Test Receiver	Rohde & Schwarz	ESW44	103313	2024-01-29	2025-01-29
EMI Test Receiver	Rohde & Schwarz	ESW44	103350	2024-04-08	2025-04-08
EMI Test Receiver	Rohde & Schwarz	ESR7	102328	2024-01-29	2025-01-29
2 Line LISN	Rohde & Schwarz	EVN216	102638	2024-01-30	2025-01-30
Signal Generator	Rohde & Schwarz	SMB100B	103196	2024-07-18	2025-07-18
Signal Generator	Rohde & Schwarz	SMB100A	184060	2024-07-18	2025-07-18
Loop Antenna	TESEQ	HLA 6121	65111	2023-08-01	2025-08-01
TRILOG BROADBAND ANTENNA	Schwarzbeck	VULB 9163	01670	2023-10-17	2025-10-17
Double-Ridged Guide Antenna	ETS LINDGREN	3117	00261223	2024-09-24	2025-09-24
Double-Ridged Guide Antenna	ETS LINDGREN	3117	00261463	2024-09-20	2025-09-20
DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA	ETS LINDGREN	3116C	00261440	2024-09-20	2025-09-20
Amplifier	ETS LINDGREN	3116C-PA	00261440	2024-09-20	2025-09-20
Signal Conditioning Unit	Rohde & Schwarz	SCU01F	100316	2024-03-22	2025-03-22
Amplifier	EXYNOD	ELNA03-40D	631509	2024-07-18	2025-07-18
Amplifier	BNZ	BZR-01001800-231040-182020	28452	2024-04-08	2025-04-08
Amplifier	BNZ	BZR-01001800-231040-181515	31049	2024-07-18	2025-07-18
Power Sensor	Rohde & Schwarz	111164	NRP8S	2024-07-23	2025-07-23
Power Sensor	Rohde & Schwarz	104521	NRP8S	2024-07-25	2025-07-25
Attenuator	Centric RF	C040-10	N/A	2024-01-11	2025-01-11
				2025-01-10	2026-01-10
Attenuator	Centric RF	C040-10	N/A	2024-01-11	2025-01-11
				2025-01-10	2026-01-11
Attenuator	EXYNOD	RLAN-210-18G	10A001	2024-04-08	2025-04-08
Fixed Attenuator	PASTERNAK	PE7087-10	2241	2024-07-18	2025-07-18
Low Pass Filter	Micro-Tronics	LPS17541	019	2024-07-18	2025-07-18
Low Pass Filter	Micro-Tronics	LPS17541	050	2024-04-08	2025-04-08
High Pass Filter	Micro-Tronics	HPM50107	G115	2024-07-18	2025-07-18
High Pass Filter	Micro-Tronics	HPM17543	021	2024-07-18	2025-07-18
High Pass Filter	Micro-Tronics	HPS17542	020	2024-07-18	2025-07-18
High Pass Filter	Micro-Tronics	HPM17543	051	2024-04-08	2025-04-08
High Pass Filter	Micro-Tronics	HPS17542	051	2024-04-08	2025-04-08

Humidity/Baro/Temp DATA RECORDER	Lutron	MHB-382SD	AL.92208	2024-07-23	2025-07-23
Humidity/Baro/Temp DATA RECORDER	Lutron	MHB-382SD	AM.00223	2024-01-11	2025-01-11
				2025-01-02	2026-01-02
Humidity/Baro/Temp DATA RECORDER	Lutron	MHB-382SD	AM.00227	2024-01-11	2025-01-11
				2025-01-02	2026-01-02
Digital Multimeter	Fluke Corporation	17B+	51260820WS	2024-07-18	2025-07-18
UL Software					
Description	Manufacturer	Model		Vesrsion	
Radiated software	UL	UL EMC		Ver 9.5	
AC Line Conducted Software	Rohde & Schwarz	EMC32		Ver 11.10.00	

8. SUMMARY TABLE

FCC Part Section	IC Part Section	Test Description	Test Limit	Test Condition	Test Result
15.407(a)(11)	RSS-248 4.4	26dB & 99% Bandwidth	N/A	Conducted	Complies
15.407(a)(7) 15.407(a)(8)	RSS-248 4.5.3 & 4.5.5	Maximum Power Spectral Density	< -1dBm/MHz e.i.r.p (LPI)		Complies
15.407(a)(7) 15.407(a)(8)	RSS-248 4.5.3	Maximum Radiated Output Power	< 24 dBm over the frequency band of operation (LPI)		Complies
15.407(b)(7)	RSS-248 4.6.2	In-band Emissions	EUT must meet the limits detailed in 15.407(b)(7)		Complies
15.407(d)(6)	RSS-248 4.7	Contention Based Protocol	EUT must detect AWGN signal with 90% (or better) certainty		Complies
15.407(b)(9) 15.207	RSS-GEN Clause 8.8	AC Power Line conducted emissions	< FCC 15.207 limits, RSS-GEN Clause 8.8, Table 4	Radiated	Complies
15.407(b)(6)	RSS-248 4.6.2	Undesirable Emissions	< -27 dBm/MHz e.i.r.p outside of the 5.925 – 7.125 GHz Band		Complies
15.205 15.209	RSS-GEN Clause 7 & 8.9	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 & Clause 8.9, Table 5		Complies

Note. This EUT does not support channel puncturing and bandwidth reduction.

9. MEASUREMENT METHODS

On-Time and Duty Cycle: KDB 789033 D02 v02r01, Section II.B.

26dB Emission BW: KDB 789033 D02 v02r01, Section II.C / KDB 987594 D02

99% Occupied BW: KDB 789033 D02 v02r01, Section II.D / KDB 987594 D02

Conducted Output Power: KDB 789033 D02 v02r01, Section II.E.3.a (Method PM) /
KDB 987594 D02

Power Spectral Density: KDB 789033 D02 v02r01, Section II.F / KDB 987594 D02

In-Band Emissions: KDB 987594 D02

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Section II.G.3 – II.G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Section II.G.3 – II.G.6.

AC Power Line Conducted Emission: ANSI C63.10-2020, Section 6.2.

10. REFERENCE MEASUREMENTS RESULTS

10.1. ON TIME AND DUTY CYCLE RESULTS

Mode	On Time [ms]	Period [ms]	Duty Cycle X [Linear]	Duty Cycle X [%]	Duty Cycle Correction Factor[dB]
802.11a SISO	2.756	3.205	0.860	85.991	0.66

Mode	ANT.	Tone	On Time [ms]	Period [ms]	Duty Cycle X [Linear]	Duty Cycle X [%]	Duty Cycle Correction Factor[dB]
802.11ax HE20	MIMO	26T	1.604	2.017	0.795	79.524	1.00
		242T	1.212	1.652	0.734	73.366	1.35
802.11ax HE40	MIMO	26T	1.604	2.017	0.795	79.524	1.00
		484T	1.203	1.680	0.716	71.607	1.45
802.11ax HE80	MIMO	26T	1.604	2.017	0.795	79.524	1.00
		996T	1.148	1.678	0.684	68.415	1.65

Note. If the duty cycle is over 98%, compensation is not included in average measurement.

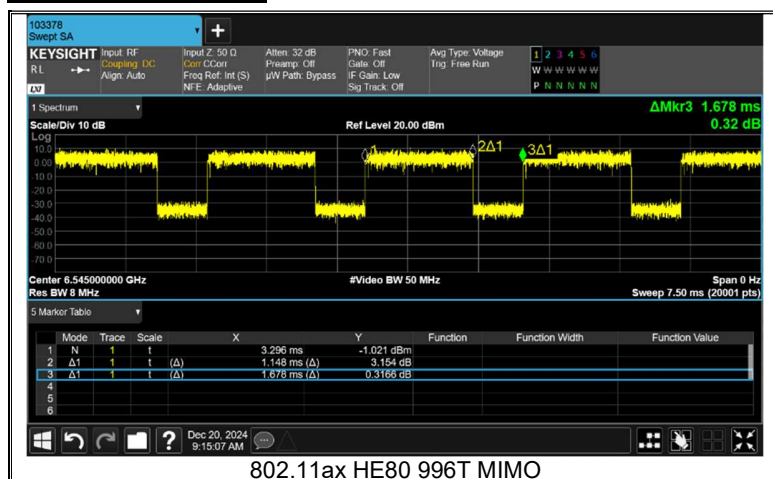
LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 789033 D02 v02r01 Zero-Span Spectrum Analyzer Method.

DUTY CYCLE PLOTS



10.2. 26 dB BANDWIDTH & 99% BANDWIDTH

LIMITS

FCC §15.407 (a) (11) / RSS-248 Issue 3 (4.4)

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

TEST PROCEDURE

Reference to 789033 D02 General UNII Test Procedures New Rules v02r01: The transmitter output is connected to a spectrum analyzer with the RBW set to approximately 1% of EBW, the VBW > RBW, peak detector and max hold.

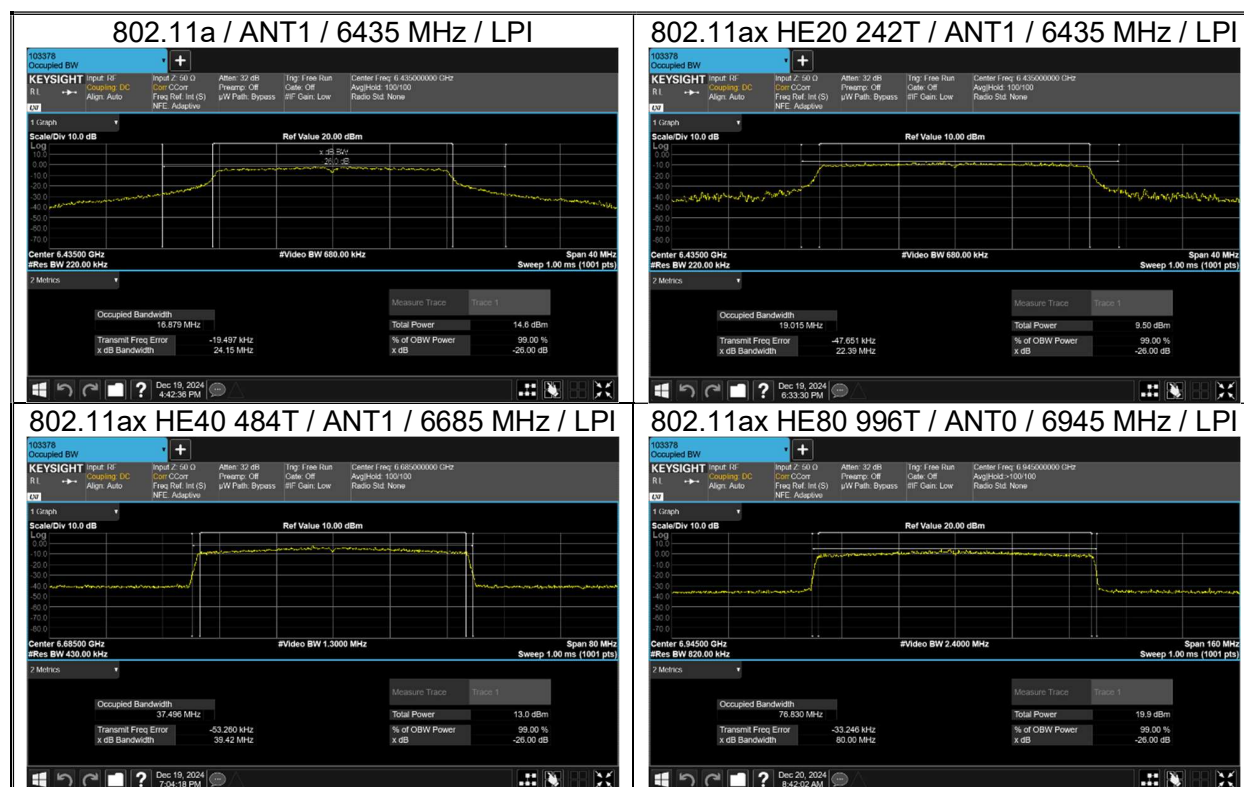
RSS-Gen Issue 5 (6.7) : The transmitter output is connected to a spectrum analyzer with the RBW set to 1 ~ 5 % of EBW, the VBW > RBW, peak detector and max hold.

RESULTS

- Please refer to the next page

WORST CASE TEST PLOTS

- Please refer to the next page



10.2.1. 802.11a

Band	Ch.	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			LPI			LPI	
			ANT0	ANT1		ANT0	ANT1
UNII-5	1	5955	26.62	24.43	24.36	17.429	16.951
	45	6175	26.74	24.38		17.543	16.861
	93	6415	24.92	24.36		17.253	16.877
UNII-6	97	6435	26.71	24.15	24.15	17.454	16.879
	105	6475	25.84	25.76		17.469	16.931
	113	6515	25.90	24.76		17.249	16.939
UNII-7	117	6535	26.46	24.25	24.25	17.447	16.929
	149	6695	26.44	24.46		17.424	16.938
	181	6855					
	185	6875	26.91	24.66		17.476	16.914
UNII-8	189	6895	25.68	24.60	24.30	17.458	16.915
	209	6995	26.26	24.30		17.311	16.929
	233	7115	25.72	25.09		17.382	16.925

10.2.2. 802.11ax HE20

Band	Ch.	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			LPI			LPI	
			ANT0	ANT1		ANT0	ANT1
UNII-5	1	5955	24.24	24.38	22.76	19.109	19.004
	45	6175	26.57	22.76		19.126	19.079
	93	6415	26.27	24.16		19.116	19.056
UNII-6	97	6435	26.76	22.39	22.39	19.125	19.015
	105	6475	29.28	23.85		19.144	19.051
	113	6515	29.31	22.77		19.099	19.056
UNII-7	117	6535	22.92	23.57	22.92	19.132	19.056
	149	6695	25.36	23.48		19.096	19.060
	181	6855					
	185	6875	23.50	23.93		19.091	19.064
UNII-8	189	6895	23.96	24.05	23.00	19.032	19.043
	209	6995	24.26	23.00		19.088	19.027
	233	7115	23.51	25.21		19.080	19.043

10.2.3. 802.11ax HE40

Band	Ch.	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			LPI			LPI	
			ANT0	ANT1		ANT0	ANT1
UNII-5	3	5965	39.55	39.53	39.53	37.485	37.463
	43	6165	39.62	39.54		37.477	37.497
	91	6405	39.63	39.54		37.463	37.458
UNII-6	99	6445	39.63	39.56	39.51	37.483	37.463
	115	6525	39.53	39.51		37.422	37.484
UNII-7	123	6565	39.55	39.49	39.42	37.460	37.444
	147	6685	39.64	39.42		37.486	37.496
	179	6845	39.57	39.49		37.492	37.443
UNII-8	187	6885	39.63	39.46	39.46	37.449	37.453
	203	6965	39.60	39.51		37.461	37.458
	227	7085	39.56	39.57		37.466	37.481

10.2.4. 802.11ax HE80

Band	Ch.	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			LPI			LPI	
			ANT0	ANT1		ANT0	ANT1
UNII-5	7	5985	80.15	80.11	80.05	76.812	76.630
	39	6145	80.28	80.07		76.661	76.756
	87	6385	80.05	80.09		76.614	76.834
UNII-6	103	6465	80.21	80.06	80.06	76.609	76.577
UNII-7	119	6545	80.15	80.22	80.02	76.792	76.621
	135	6625					
	151	6705	80.27	80.16		76.808	76.773
	167	6785					
	183	6865	80.09	80.02		76.767	76.779
UNII-8	199	6945	80.00	80.09	80.00	76.830	76.691
	215	7025	80.20	80.18		76.714	76.953

11. ANTENNA PORT TEST RESULTS

11.1. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (7) and (8)
RSS-248 Issue 3 (4.5.3) and (4.5.5)

FCC

For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

IC

4.5.3 Power limits for low-power client devices
The following limits shall apply to low-power client devices:

- the maximum e.i.r.p. spectral density shall not exceed -1 dBm/MHz and
- the maximum e.i.r.p. over the 5925-7125 MHz frequency band shall not exceed 24 dBm

TEST PROCEDURE

KDB 789033 Method PM is used for output power.
KDB 789033 Method SA-2 is used for only power of PPSD. RBW set to 1MHz, the VBW $\geq 3 \times$ RBW, RMS detector and trace averaging. Peak marker value of the spectrum is used for PSD.

DIRECTIONAL ANTENNA GAIN

For OUTPUT POWER and PSD: The TX chains are correlated and the antenna gains are unequal among the chains. The directional gain is:

Frequency Band [MHz]	ANT0 Gain [dBi]	ANT1 Gain [dBi]	Correlated Chains Directional Gain [dBi]
UNII 5 5925 – 6425	1.70	1.77	4.75
UNII 6 6425 – 6525	1.62	0.65	4.16
UNII 7 6525 – 6875	1.62	0.65	4.16
UNII 8 6875 – 7125	-1.56	-1.78	1.34

11.1.1. 802.11a MODE

Output Power Results

- LPI ANT0

Band	Channel	Freq. [MHz]	Average Power [dBm]	Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
			ANT0			
UNII-5	1	5955	6.30	1.70	8.00	24.00
	45	6175	5.63	1.70	7.33	
	93	6415	6.06	1.70	7.76	
UNII-6	97	6435	6.57	1.62	8.19	
	105	6475	6.62	1.62	8.24	
	113	6515	6.17	1.62	7.79	
UNII-7	117	6535	6.59	1.62	8.21	
	149	6695	6.37	1.62	7.99	
	185	6875	6.35	1.62	7.97	
UNII-8	189	6895	9.48	-1.56	7.92	
	209	6995	9.37	-1.56	7.81	
	233	7115	9.11	-1.56	7.55	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant0 Average Power + Directional Gain

- LPI ANT1

Band	Channel	Freq. [MHz]	Average Power [dBm]	Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
			ANT1			
UNII-5	1	5955	5.82	1.77	7.59	24.00
	45	6175	5.78	1.77	7.55	
	93	6415	6.42	1.77	8.19	
UNII-6	97	6435	7.41	0.65	8.06	
	105	6475	7.38	0.65	8.03	
	113	6515	7.42	0.65	8.07	
UNII-7	117	6535	7.67	0.65	8.32	
	149	6695	7.43	0.65	8.08	
	185	6875	7.11	0.65	7.76	
UNII-8	189	6895	9.79	-1.56	8.23	
	209	6995	9.44	-1.56	7.88	
	233	7115	9.54	-1.56	7.98	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Directional Gain

PSD Results

- LPI ANT0

Band	Channel	Freq. [MHz]	Meas PSD [dBm/MHz]	DCCF	Direct. Gain [dBi]	Corr'd PSD e.i.r.p [dBm]	PSD e.i.r.p Limit [dBm/MHz]
			ANT0				
UNII-5	1	5955	-4.32	0.66	1.70	-1.96	-1.00
	45	6175	-4.56	0.66	1.70	-2.20	
	93	6415	-4.28	0.66	1.70	-1.92	
UNII-6	97	6435	-4.00	0.66	1.62	-1.72	
	105	6475	-4.16	0.66	1.62	-1.88	
	113	6515	-4.29	0.66	1.62	-2.01	
UNII-7	117	6535	-3.87	0.66	1.62	-1.59	
	149	6695	-4.16	0.66	1.62	-1.88	
	185	6875	-4.22	0.66	1.62	-1.94	
UNII-8	189	6895	-0.80	0.66	-1.56	-1.70	
	209	6995	-0.93	0.66	-1.56	-1.83	
	233	7115	-1.30	0.66	-1.56	-2.20	

Corr'd PSD e.i.r.p = ANT0 Meas PSD + DCCF + Directional Gain

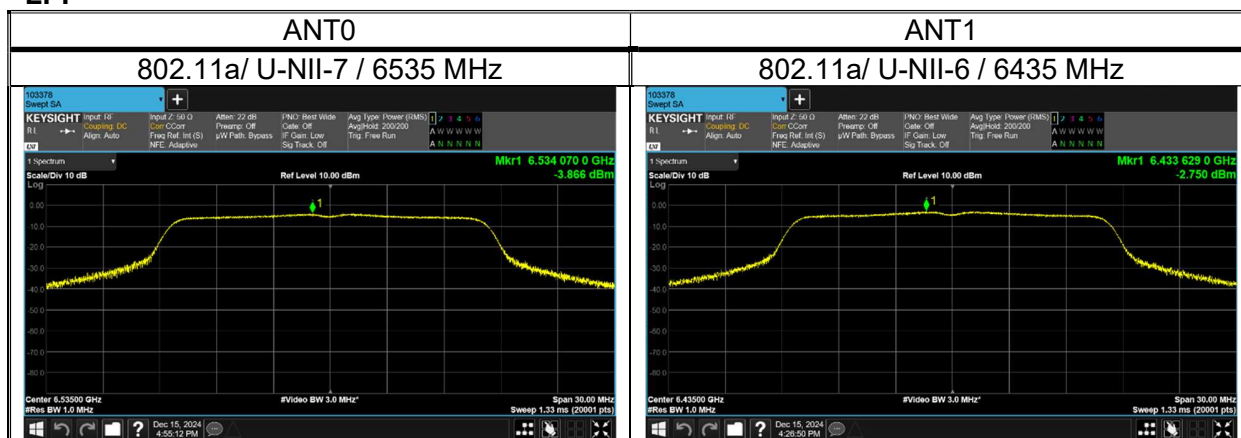
- LPI ANT1

Band	Channel	Freq. [MHz]	Meas PSD [dBm/MHz]	DCCF	Direct. Gain [dBi]	Corr'd PSD e.i.r.p [dBm]	PSD e.i.r.p Limit [dBm/MHz]
			ANT1				
UNII-5	1	5955	-4.51	0.66	1.77	-2.08	-1.00
	45	6175	-4.40	0.66	1.77	-1.97	
	93	6415	-4.06	0.66	1.77	-1.63	
UNII-6	97	6435	-2.75	0.66	0.65	-1.44	
	105	6475	-3.00	0.66	0.65	-1.69	
	113	6515	-2.98	0.66	0.65	-1.67	
UNII-7	117	6535	-2.84	0.66	0.65	-1.53	
	149	6695	-2.99	0.66	0.65	-1.68	
	185	6875	-3.33	0.66	0.65	-2.02	
UNII-8	189	6895	-0.75	0.66	-1.78	-1.87	
	209	6995	-0.94	0.66	-1.78	-2.06	
	233	7115	-0.73	0.66	-1.78	-1.85	

Corr'd PSD e.i.r.p = ANT1 Meas PSD + DCCF + Directional Gain

PPSD PLOTS (WORST CASE)

- LPI



11.1.2. 802.11ax HE20 MODE

Output Power Results

- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT0	ANT1	MIMO			
UNII-5	1	5955	26T	0	-7.87	-8.33	-5.08	4.75	-0.33	24.00
				4	-7.66	-8.17	-4.90	4.75	-0.15	
				8	-7.68	-8.25	-4.95	4.75	-0.20	
			52T	37	-5.70	-6.23	-2.95	4.75	1.80	
				38	-5.65	-6.17	-2.89	4.75	1.86	
				40	-5.65	-6.13	-2.87	4.75	1.88	
			106T	53	-2.38	-2.95	0.35	4.75	5.10	
				54	-2.31	-2.87	0.43	4.75	5.18	
			242T	61	1.33	1.71	4.53	4.75	9.28	
	45	6175	26T	0	-7.68	-7.94	-4.80	4.75	-0.05	
				4	-7.57	-7.87	-4.71	4.75	0.04	
				8	-7.77	-7.91	-4.83	4.75	-0.08	
			52T	37	-5.47	-5.77	-2.61	4.75	2.14	
				38	-5.36	-5.70	-2.52	4.75	2.23	
				40	-5.48	-5.71	-2.58	4.75	2.17	
			106T	53	-2.11	-2.48	0.72	4.75	5.47	
				54	-2.12	-2.56	0.68	4.75	5.43	
			242T	61	0.85	1.19	4.03	4.75	8.78	
	93	6415	26T	0	-8.11	-9.17	-5.60	4.75	-0.85	
				4	-7.94	-9.02	-5.44	4.75	-0.69	
				8	-8.02	-8.97	-5.46	4.75	-0.71	
			52T	37	-5.48	-6.41	-2.91	4.75	1.84	
				38	-5.34	-6.33	-2.80	4.75	1.95	
				40	-5.37	-6.33	-2.81	4.75	1.94	
			106T	53	-2.82	-3.79	-0.27	4.75	4.48	
				54	-2.69	-3.76	-0.18	4.75	4.57	
			242T	61	1.02	0.30	3.69	4.75	8.44	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant0 Average Power + Ant1 Average Power + Directional Gain

- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT0	ANT1	MIMO			
UNII-6	97	6435	26T	0	-8.10	-8.61	-5.34	4.16	-1.18	24.00
				4	-7.96	-8.43	-5.18	4.16	-1.02	
				8	-7.91	-8.44	-5.16	4.16	-1.00	
			52T	37	-5.39	-5.92	-2.64	4.16	1.52	
				38	-5.33	-5.82	-2.56	4.16	1.60	
				40	-5.24	-5.79	-2.50	4.16	1.66	
			106T	53	-2.24	-2.75	0.52	4.16	4.68	
				54	-2.13	-2.68	0.61	4.16	4.77	
			242T	61	1.04	0.74	3.90	4.16	8.06	
	105	6475	26T	0	-7.47	-7.99	-4.71	4.16	-0.55	
				4	-7.31	-7.86	-4.57	4.16	-0.41	
				8	-7.31	-7.95	-4.61	4.16	-0.45	
			52T	37	-4.68	-5.31	-1.97	4.16	2.19	
				38	-4.62	-5.26	-1.92	4.16	2.24	
				40	-4.61	-5.21	-1.89	4.16	2.27	
			106T	53	-1.60	-2.28	1.08	4.16	5.24	
				54	-1.59	-2.22	1.12	4.16	5.28	
			242T	61	1.57	1.34	4.47	4.16	8.63	
	113	6515	26T	0	-7.76	-7.88	-4.81	4.16	-0.65	
				4	-7.55	-7.80	-4.66	4.16	-0.50	
				8	-7.63	-7.86	-4.73	4.16	-0.57	
			52T	37	-5.16	-5.24	-2.19	4.16	1.97	
				38	-5.04	-5.22	-2.12	4.16	2.04	
				40	-5.12	-5.29	-2.19	4.16	1.97	
			106T	53	-2.03	-2.19	0.90	4.16	5.06	
				54	-1.97	-2.14	0.96	4.16	5.12	
			242T	61	1.24	1.38	4.32	4.16	8.48	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant0 Average Power + Ant1 Average Power + Directional Gain

- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT0	ANT1	MIMO			
UNII-7	117	6535	26T	0	-7.37	-7.68	-4.51	4.16	-0.35	24.00
				4	-7.16	-7.52	-4.33	4.16	-0.17	
				8	-7.12	-7.59	-4.34	4.16	-0.18	
			52T	37	-4.78	-5.04	-1.90	4.16	2.26	
				38	-4.71	-5.03	-1.86	4.16	2.30	
				40	-4.63	-5.12	-1.86	4.16	2.30	
			106T	53	-2.11	-2.48	0.72	4.16	4.88	
				54	-1.98	-2.44	0.81	4.16	4.97	
			242T	61	1.22	1.19	4.22	4.16	8.38	
	149	6695	26T	0	-7.31	-7.99	-4.63	4.16	-0.47	
				4	-7.23	-7.93	-4.56	4.16	-0.40	
				8	-7.23	-7.96	-4.57	4.16	-0.41	
			52T	37	-4.63	-5.38	-1.98	4.16	2.18	
				38	-4.58	-5.27	-1.90	4.16	2.26	
				40	-4.57	-5.42	-1.96	4.16	2.20	
			106T	53	-1.27	-2.08	1.35	4.16	5.51	
				54	-1.31	-2.04	1.35	4.16	5.51	
			242T	61	3.70	3.77	6.75	4.16	10.91	
	185	6875	26T	0	-7.45	-7.12	-4.27	4.16	-0.11	
				4	-7.48	-7.05	-4.25	4.16	-0.09	
				8	-7.56	-7.17	-4.35	4.16	-0.19	
			52T	37	-5.29	-4.99	-2.13	4.16	2.03	
				38	-5.31	-4.90	-2.09	4.16	2.07	
				40	-5.46	-5.08	-2.26	4.16	1.90	
			106T	53	-2.71	-1.63	0.87	4.16	5.03	
				54	-2.77	-1.70	0.81	4.16	4.97	
			242T	61	0.54	1.78	4.21	4.16	8.37	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant0 Average Power + Ant1 Average Power + Directional Gain

- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT0	ANT1	MIMO			
UNII-8	189	6895	26T	0	-4.62	-4.72	-1.66	1.34	-0.32	24.00
				4	-4.73	-4.67	-1.69	1.34	-0.35	
				8	-4.81	-4.83	-1.81	1.34	-0.47	
			52T	37	-2.82	-1.78	0.74	1.34	2.08	
				38	-2.79	-1.73	0.78	1.34	2.12	
				40	-2.90	-1.91	0.63	1.34	1.97	
			106T	53	0.10	0.52	3.33	1.34	4.67	
				54	0.07	1.14	3.65	1.34	4.99	
			242T	61	3.54	4.72	7.18	1.34	8.52	
	209	6995	26T	0	-3.41	-5.81	-1.44	1.34	-0.10	
				4	-3.36	-5.80	-1.40	1.34	-0.06	
				8	-3.42	-5.88	-1.47	1.34	-0.13	
			52T	37	-2.11	-3.02	0.47	1.34	1.81	
				38	-2.02	-3.17	0.45	1.34	1.79	
				40	-2.13	-3.34	0.32	1.34	1.66	
			106T	53	1.41	0.56	4.02	1.34	5.36	
				54	1.44	0.25	3.90	1.34	5.24	
			242T	61	4.57	3.53	7.09	1.34	8.43	
	233	7115	26T	0	-1.95	-1.48	1.30	1.34	2.64	
				4	-1.66	-1.32	1.52	1.34	2.86	
				8	-1.55	-1.43	1.52	1.34	2.86	
			52T	37	-4.28	-3.92	-1.09	1.34	0.25	
				38	-4.11	-3.82	-0.95	1.34	0.39	
				40	-4.11	-3.84	-0.96	1.34	0.38	
			106T	53	-1.34	-0.81	1.94	1.34	3.28	
				54	-1.16	-0.89	1.99	1.34	3.33	
			242T	61	1.77	2.28	5.04	1.34	6.38	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant0 Average Power + Ant1 Average Power + Directional Gain

PSD Results

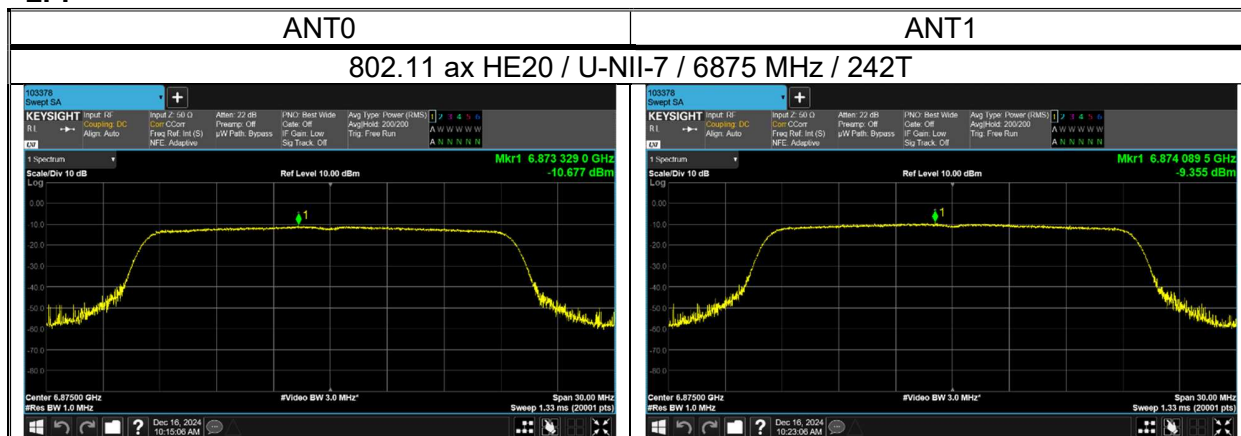
- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Meas PSD [dBm/MHz]			DCCF	Direct. Gain [dBi]	Corr'd PSD e.i.r.p [dBm]	PSD e.i.r.p Limit [dBm/MHz]
					ANT0	ANT1	MIMO				
UNII-5	1	5955	26T	0	-10.89	-11.07	-7.97	1.00	4.75	-2.22	-1.00
				4	-11.64	-11.84	-8.73	1.00	4.75	-2.98	
				8	-10.88	-10.51	-7.68	1.00	4.75	-1.93	
				242T	61	-10.97	-10.47	1.35	4.75	-1.60	
	45	6175	26T	0	-10.52	-10.52	-7.51	1.00	4.75	-1.76	
				4	-11.88	-11.37	-8.61	1.00	4.75	-2.86	
				8	-10.75	-10.63	-7.68	1.00	4.75	-1.93	
				242T	61	-10.93	-10.50	1.35	4.75	-1.60	
	93	6415	26T	0	-10.66	-11.18	-7.90	1.00	4.75	-2.15	
				4	-11.38	-12.07	-8.70	1.00	4.75	-2.95	
				8	-10.75	-11.03	-7.87	1.00	4.75	-2.12	
				242T	61	-10.65	-10.95	1.35	4.75	-1.69	
UNII-6	97	6435	26T	0	-9.95	-10.87	-7.37	1.00	4.16	-2.21	
				4	-11.03	-12.26	-8.59	1.00	4.16	-3.43	
				8	-10.49	-10.42	-7.45	1.00	4.16	-2.29	
				242T	61	-10.47	-10.56	1.35	4.16	-1.99	
	105	6475	26T	0	-10.05	-10.48	-7.25	1.00	4.16	-2.09	
				4	-11.01	-11.47	-8.22	1.00	4.16	-3.06	
				8	-9.86	-10.54	-7.17	1.00	4.16	-2.01	
				242T	61	-10.28	-10.12	1.35	4.16	-1.68	
	113	6515	26T	0	-10.74	-10.63	-7.68	1.00	4.16	-2.52	
				4	-11.18	-11.58	-8.37	1.00	4.16	-3.21	
				8	-10.28	-10.16	-7.21	1.00	4.16	-2.05	
				242T	61	-10.48	-10.05	1.35	4.16	-1.74	
UNII-7	117	6535	26T	0	-10.34	-10.89	-7.60	1.00	4.16	-2.44	
				4	-11.09	-11.91	-8.47	1.00	4.16	-3.31	
				8	-9.90	-10.78	-7.31	1.00	4.16	-2.15	
				242T	61	-10.20	-10.13	1.35	4.16	-1.65	
	149	6695	26T	0	-9.89	-11.10	-7.45	1.00	4.16	-2.29	
				4	-10.86	-12.17	-8.46	1.00	4.16	-3.30	
				8	-9.91	-11.10	-7.46	1.00	4.16	-2.30	
				242T	61	-10.51	-9.77	1.35	4.16	-1.61	
	185	6875	26T	0	-10.29	-9.81	-7.03	1.00	4.16	-1.87	
				4	-11.06	-10.83	-7.93	1.00	4.16	-2.77	
				8	-10.28	-9.71	-6.97	1.00	4.16	-1.81	
				242T	61	-10.68	-9.36	1.35	4.16	-1.45	
UNII-8	189	6895	26T	0	-7.53	-7.49	-4.50	1.00	1.34	-2.16	
				4	-8.35	-8.48	-5.40	1.00	1.34	-3.06	
				8	-7.32	-7.53	-4.41	1.00	1.34	-2.07	
				242T	61	-8.09	-6.39	1.35	1.34	-1.46	
	209	6995	26T	0	-5.97	-8.38	-4.00	1.00	1.34	-1.66	
				4	-6.86	-9.41	-4.94	1.00	1.34	-2.60	
				8	-6.40	-8.91	-4.47	1.00	1.34	-2.13	
				242T	61	-7.67	-7.80	1.35	1.34	-2.04	
	233	7115	26T	0	-8.34	-8.95	-5.63	1.00	1.34	-3.29	
				4	-9.34	-10.16	-6.72	1.00	1.34	-4.38	
				8	-7.93	-9.15	-5.49	1.00	1.34	-3.15	
				242T	61	-8.88	-8.94	1.35	1.34	-3.21	

* Corr'd PSD e.i.r.p = ANT0 Meas PSD + Ant1 Meas PSD + DCCF + Directional Gain

PPSD PLOTS (WORST CASE)

- LPI



11.1.3. 802.11ax HE40 MODE

Output Power Results

- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT0	ANT1	MIMO			
UNII-5	3	5965	26T	0	-6.99	-7.96	-4.44	4.75	0.31	24.00
				9	-6.56	-7.54	-4.01	4.75	0.74	
				17	-6.79	-7.77	-4.24	4.75	0.51	
			52T	37	-5.45	-6.60	-2.98	4.75	1.77	
				41	-4.56	-5.51	-2.00	4.75	2.75	
				44	-4.73	-5.72	-2.19	4.75	2.56	
			106T	53	-1.86	-2.07	1.05	4.75	5.80	
				54	-1.26	-1.52	1.62	4.75	6.37	
				56	-1.57	-1.76	1.35	4.75	6.10	
			242T	61	1.55	-1.37	3.34	4.75	8.09	
				62	1.46	-1.34	3.29	4.75	8.04	
			484T	65	2.54	2.82	5.69	4.75	10.44	
	43	6165	26T	0	-8.71	-9.57	-6.11	4.75	-1.36	
				9	-7.54	-8.28	-4.88	4.75	-0.13	
				17	-7.76	-8.55	-5.13	4.75	-0.38	
			52T	37	-5.81	-6.65	-3.20	4.75	1.55	
				41	-4.77	-5.67	-2.19	4.75	2.56	
				44	-5.11	-5.87	-2.46	4.75	2.29	
			106T	53	-2.89	-3.15	-0.01	4.75	4.74	
				54	-2.41	-2.61	0.50	4.75	5.25	
				56	-2.59	-2.72	0.36	4.75	5.11	
			242T	61	1.40	1.14	4.28	4.75	9.03	
				62	0.99	0.74	3.88	4.75	8.63	
			484T	65	2.69	2.90	5.81	4.75	10.56	
	91	6405	26T	0	-8.50	-8.93	-5.70	4.75	-0.95	
				9	-7.97	-8.30	-5.12	4.75	-0.37	
				17	-8.05	-8.63	-5.32	4.75	-0.57	
			52T	37	-6.44	-6.89	-3.65	4.75	1.10	
				41	-5.39	-5.92	-2.64	4.75	2.11	
				44	-5.48	-5.97	-2.71	4.75	2.04	
			106T	53	-2.83	-2.99	0.10	4.75	4.85	
				54	-2.22	-2.53	0.64	4.75	5.39	
				56	-2.38	-2.71	0.47	4.75	5.22	
			242T	61	0.87	0.61	3.75	4.75	8.50	
				62	0.57	0.38	3.49	4.75	8.24	
			484T	65	2.69	1.94	5.34	4.75	10.09	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant0 Average Power + Ant1 Average Power + Directional Gain

- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT0	ANT1	MIMO			
UNII-6	99	6445	26T	0	-8.62	-9.15	-5.87	4.16	-1.71	24.00
				9	-7.35	-7.87	-4.59	4.16	-0.43	
				17	-7.46	-8.07	-4.74	4.16	-0.58	
			52T	37	-5.69	-6.29	-2.97	4.16	1.19	
				41	-4.67	-5.25	-1.94	4.16	2.22	
				44	-4.89	-5.41	-2.13	4.16	2.03	
			106T	53	-2.58	-2.88	0.28	4.16	4.44	
				54	-2.08	-2.32	0.81	4.16	4.97	
				56	-2.11	-2.39	0.76	4.16	4.92	
			242T	61	1.54	1.23	4.40	4.16	8.56	
				62	1.23	0.97	4.11	4.16	8.27	
			484T	65	3.33	3.04	6.20	4.16	10.36	
	115	6525	26T	0	-8.28	-8.96	-5.60	4.16	-1.44	
				9	-7.06	-7.63	-4.33	4.16	-0.17	
				17	-7.22	-7.95	-4.56	4.16	-0.40	
			52T	37	-5.39	-6.12	-2.73	4.16	1.43	
				41	-4.51	-5.16	-1.81	4.16	2.35	
				44	-4.68	-5.35	-1.99	4.16	2.17	
			106T	53	-2.42	-2.69	0.46	4.16	4.62	
				54	-1.87	-2.22	0.97	4.16	5.13	
				56	-2.09	-2.35	0.79	4.16	4.95	
			242T	61	1.27	0.85	4.08	4.16	8.24	
				62	1.02	0.53	3.79	4.16	7.95	
			484T	65	2.93	3.02	5.99	4.16	10.15	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant0 Average Power + Ant1 Average Power + Directional Gain

- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT0	ANT1	MIMO			
UNII-7	123	6565	26T	0	-8.44	-9.36	-5.87	4.16	-1.71	24.00
				9	-7.19	-8.06	-4.59	4.16	-0.43	
				17	-7.30	-8.22	-4.73	4.16	-0.57	
			52T	37	-5.45	-6.39	-2.88	4.16	1.28	
				41	-4.57	-5.42	-1.96	4.16	2.20	
				44	-4.65	-5.68	-2.12	4.16	2.04	
			106T	53	-2.28	-2.93	0.42	4.16	4.58	
				54	-1.93	-2.38	0.86	4.16	5.02	
				56	-2.01	-2.52	0.75	4.16	4.91	
			242T	61	1.66	1.11	4.40	4.16	8.56	
				62	1.34	0.72	4.05	4.16	8.21	
			484T	65	2.35	2.81	5.60	4.16	9.76	
	147	6685	26T	0	-7.24	-8.57	-4.84	4.16	-0.68	
				9	-7.08	-8.34	-4.65	4.16	-0.49	
				17	-7.45	-8.67	-5.01	4.16	-0.85	
			52T	37	-5.24	-6.56	-2.84	4.16	1.32	
				41	-4.48	-5.77	-2.07	4.16	2.09	
				44	-4.73	-6.07	-2.34	4.16	1.82	
			106T	53	-2.27	-2.73	0.52	4.16	4.68	
				54	-1.83	-2.16	1.02	4.16	5.18	
				56	-2.14	-2.48	0.70	4.16	4.86	
			242T	61	1.78	1.42	4.61	4.16	8.77	
				62	1.21	0.90	4.07	4.16	8.23	
			484T	65	2.98	3.13	6.07	4.16	10.23	
	179	6845	26T	0	-8.00	-9.37	-5.62	4.16	-1.46	
				9	-6.85	-8.22	-4.47	4.16	-0.31	
				17	-7.24	-8.74	-4.92	4.16	-0.76	
			52T	37	-5.47	-6.91	-3.12	4.16	1.04	
				41	-4.78	-6.17	-2.41	4.16	1.75	
				44	-5.21	-6.66	-2.86	4.16	1.30	
			106T	53	-2.18	-2.63	0.61	4.16	4.77	
				54	-1.77	-2.36	0.96	4.16	5.12	
				56	-2.11	-2.71	0.61	4.16	4.77	
			242T	61	1.44	0.93	4.20	4.16	8.36	
				62	1.01	0.36	3.71	4.16	7.87	
			484T	65	2.51	2.62	5.58	4.16	9.74	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant0 Average Power + Ant1 Average Power + Directional Gain

- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT0	ANT1	MIMO			
UNII-8	187	6885	26T	0	-5.31	-7.15	-3.12	1.34	-1.78	24.00
				9	-4.30	-6.17	-2.12	1.34	-0.78	
				17	-4.64	-6.66	-2.52	1.34	-1.18	
			52T	37	-3.34	-3.99	-0.64	1.34	0.70	
				41	-2.55	-3.06	0.21	1.34	1.55	
				44	-2.79	-3.40	-0.07	1.34	1.27	
			106T	53	0.36	-0.29	3.06	1.34	4.40	
				54	0.53	-0.15	3.21	1.34	4.55	
				56	0.23	-0.44	2.92	1.34	4.26	
			242T	61	4.58	3.62	7.14	1.34	8.48	
				62	4.26	3.17	6.76	1.34	8.10	
			484T	65	5.36	6.02	8.71	1.34	10.05	
	203	6965	26T	0	-5.37	-6.29	-2.80	1.34	-1.46	
				9	-4.29	-5.03	-1.63	1.34	-0.29	
				17	-4.69	-5.23	-1.94	1.34	-0.60	
			52T	37	-2.86	-3.48	-0.15	1.34	1.19	
				41	-1.91	-2.75	0.70	1.34	2.04	
				44	-2.15	-2.81	0.54	1.34	1.88	
			106T	53	0.14	-0.64	2.78	1.34	4.12	
				54	0.66	-0.14	3.29	1.34	4.63	
				56	0.37	-0.40	3.01	1.34	4.35	
			242T	61	4.29	3.17	6.78	1.34	8.12	
				62	3.85	2.81	6.37	1.34	7.71	
			484T	65	6.06	5.66	8.87	1.34	10.21	
	227	7085	26T	0	-5.85	-6.76	-3.27	1.34	-1.93	
				9	-4.47	-5.44	-1.92	1.34	-0.58	
				17	-4.67	-5.86	-2.21	1.34	-0.87	
			52T	37	-2.99	-4.06	-0.48	1.34	0.86	
				41	-2.13	-3.08	0.43	1.34	1.77	
				44	-2.47	-3.30	0.15	1.34	1.49	
			106T	53	0.44	-0.55	2.98	1.34	4.32	
				54	1.06	0.25	3.68	1.34	5.02	
				56	0.77	-0.08	3.38	1.34	4.72	
			242T	61	4.86	3.55	7.26	1.34	8.60	
				62	4.52	3.20	6.92	1.34	8.26	
			484T	65	5.73	4.95	8.37	1.34	9.71	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant0 Average Power + Ant1 Average Power + Directional Gain

PSD Results

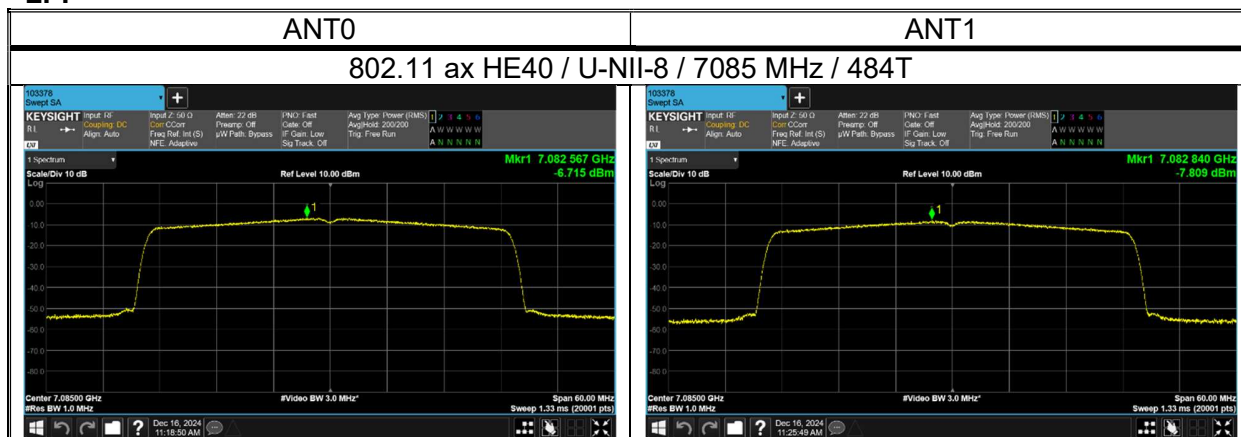
- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Meas PSD [dBm/MHz]			DCCF	Direct. Gain [dBi]	Corr'd PSD e.i.r.p [dBm]	PSD e.i.r.p Limit [dBm/MHz]
					ANT0	ANT1	MIMO				
UNII-5	3	5965	26T	0	-10.33	-10.86	-7.58	1.00	4.75	-1.83	-1.00
				9	-9.99	-10.57	-7.26	1.00	4.75	-1.51	
				17	-10.15	-10.91	-7.50	1.00	4.75	-1.75	
			484T	65	-10.89	-10.49	-7.67	1.45	4.75	-1.47	
	43	6165	26T	0	-10.57	-11.41	-7.96	1.00	4.75	-2.21	
				9	-10.29	-11.33	-7.77	1.00	4.75	-2.02	
				17	-10.68	-11.53	-8.08	1.00	4.75	-2.33	
			484T	65	-10.93	-10.40	-7.65	1.45	4.75	-1.45	
	91	6405	26T	0	-10.91	-11.47	-8.17	1.00	4.75	-2.42	
				9	-10.47	-10.99	-7.71	1.00	4.75	-1.96	
				17	-10.79	-11.62	-8.18	1.00	4.75	-2.43	
			484T	65	-10.59	-11.49	-8.01	1.45	4.75	-1.81	
UNII-6	99	6445	26T	0	-10.36	-10.58	-7.46	1.00	4.16	-2.30	
				9	-9.53	-10.38	-6.92	1.00	4.16	-1.76	
				17	-10.19	-10.64	-7.40	1.00	4.16	-2.24	
			484T	65	-10.16	-10.25	-7.19	1.45	4.16	-1.58	
	115	6525	26T	0	-10.38	-10.83	-7.59	1.00	4.16	-2.43	
				9	-9.80	-10.31	-7.04	1.00	4.16	-1.88	
				17	-9.68	-10.38	-7.00	1.00	4.16	-1.84	
			484T	65	-10.44	-10.28	-7.35	1.45	4.16	-1.74	
UNII-7	123	6565	26T	0	-9.99	-10.62	-7.28	1.00	4.16	-2.12	
				9	-9.37	-10.44	-6.86	1.00	4.16	-1.70	
				17	-9.56	-10.53	-7.01	1.00	4.16	-1.85	
			484T	65	-11.10	-10.50	-7.78	1.45	4.16	-2.17	
	147	6685	26T	0	-9.46	-11.11	-7.20	1.00	4.16	-2.04	
				9	-9.35	-11.27	-7.20	1.00	4.16	-2.04	
				17	-9.96	-10.99	-7.44	1.00	4.16	-2.28	
			484T	65	-10.42	-9.91	-7.15	1.45	4.16	-1.54	
	179	6845	26T	0	-9.55	-10.46	-6.97	1.00	4.16	-1.81	
				9	-9.11	-10.65	-6.81	1.00	4.16	-1.65	
				17	-9.53	-10.99	-7.19	1.00	4.16	-2.03	
			484T	65	-10.66	-10.06	-7.34	1.45	4.16	-1.73	
UNII-8	187	6885	26T	0	-6.66	-8.71	-4.56	1.00	1.34	-2.22	
				9	-6.65	-8.57	-4.49	1.00	1.34	-2.15	
				17	-7.20	-8.63	-4.85	1.00	1.34	-2.51	
			484T	65	-7.65	-7.10	-4.36	1.45	1.34	-1.57	
	203	6965	26T	0	-6.92	-7.74	-4.30	1.00	1.34	-1.96	
				9	-6.86	-7.14	-3.99	1.00	1.34	-1.65	
				17	-6.60	-8.20	-4.32	1.00	1.34	-1.98	
			484T	65	-7.38	-7.42	-4.39	1.45	1.34	-1.60	
	227	7085	26T	0	-7.49	-8.44	-4.93	1.00	1.34	-2.59	
				9	-7.26	-7.84	-4.53	1.00	1.34	-2.19	
				17	-6.49	-7.74	-4.06	1.00	1.34	-1.72	
			484T	65	-6.72	-7.81	-4.22	1.45	1.34	-1.43	

* Corr'd PSD e.i.r.p = ANT0 Meas PSD + Ant1 Meas PSD + DCCF + Directional Gain

PPSD PLOTS (WORST CASE)

- LPI



11.1.4. 802.11ax HE80 MODE

Output Power Results

- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT0	ANT1	MIMO			
UNII-5	7	5985	26T	0	-7.33	-8.44	-4.84	4.75	-0.09	24.00
				18	-7.07	-8.17	-4.57	4.75	0.18	
				36	-7.23	-8.33	-4.73	4.75	0.02	
			52T	37	-5.43	-5.88	-2.64	4.75	2.11	
				45	-5.41	-5.79	-2.59	4.75	2.16	
				52	-5.33	-5.77	-2.53	4.75	2.22	
			106T	53	-2.75	-2.62	0.33	4.75	5.08	
				57	-2.77	-2.53	0.36	4.75	5.11	
				60	-2.92	-2.47	0.32	4.75	5.07	
			242T	61	0.27	0.52	3.41	4.75	8.16	
				62	0.25	0.53	3.40	4.75	8.15	
				64	0.04	0.40	3.23	4.75	7.98	
			484T	65	3.43	3.64	6.55	4.75	11.30	
				66	3.36	3.63	6.51	4.75	11.26	
			996T	67	5.80	6.10	8.96	4.75	13.71	
	39	6145	26T	0	-8.02	-8.44	-5.21	4.75	-0.46	
				18	-7.53	-8.44	-4.95	4.75	-0.20	
				36	-7.74	-8.49	-5.09	4.75	-0.34	
			52T	37	-5.87	-6.23	-3.04	4.75	1.71	
				45	-5.79	-6.20	-2.98	4.75	1.77	
				52	-5.74	-6.12	-2.92	4.75	1.83	
			106T	53	-3.55	-3.51	-0.52	4.75	4.23	
				57	-3.35	-3.03	-0.18	4.75	4.57	
				60	-3.21	-2.94	-0.06	4.75	4.69	
			242T	61	0.27	0.48	3.39	4.75	8.14	
				62	0.35	0.57	3.47	4.75	8.22	
				64	0.26	0.54	3.41	4.75	8.16	
			484T	65	3.58	3.77	6.69	4.75	11.44	
				66	3.55	3.74	6.66	4.75	11.41	
			996T	67	5.64	6.21	8.94	4.75	13.69	
	87	6385	26T	0	-9.77	-10.10	-6.92	4.75	-2.17	
				18	-8.05	-8.53	-5.27	4.75	-0.52	
				36	-8.03	-8.42	-5.21	4.75	-0.46	
			52T	37	-7.54	-7.73	-4.62	4.75	0.13	
				45	-6.21	-6.47	-3.33	4.75	1.42	
				52	-6.03	-6.44	-3.22	4.75	1.53	
			106T	53	-3.89	-3.79	-0.83	4.75	3.92	
				57	-3.10	-3.13	-0.10	4.75	4.65	
				60	-2.95	-3.08	0.00	4.75	4.75	
			242T	61	0.23	0.25	3.25	4.75	8.00	
				62	0.37	0.34	3.37	4.75	8.12	
				64	0.54	0.40	3.48	4.75	8.23	
			484T	65	2.93	2.81	5.88	4.75	10.63	
				66	3.15	3.01	6.09	4.75	10.84	
			996T	67	6.31	5.69	9.02	4.75	13.77	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant0 Average Power + Ant1 Average Power + Directional Gain

- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT0	ANT1	MIMO			
UNII-6	103	6465	26T	0	-8.91	-9.38	-6.13	4.16	-1.97	24.00
				18	-7.26	-7.82	-4.52	4.16	-0.36	
				36	-7.21	-7.92	-4.54	4.16	-0.38	
			52T	37	-6.57	-6.93	-3.74	4.16	0.42	
				45	-5.33	-5.75	-2.52	4.16	1.64	
				52	-5.25	-5.71	-2.46	4.16	1.70	
			106T	53	-2.90	-3.07	0.03	4.16	4.19	
				57	-2.28	-2.49	0.63	4.16	4.79	
				60	-2.21	-2.37	0.72	4.16	4.88	
			242T	61	1.49	1.34	4.43	4.16	8.59	
				62	1.24	1.03	4.15	4.16	8.31	
				64	1.30	1.06	4.19	4.16	8.35	
			484T	65	3.12	3.01	6.08	4.16	10.24	
				66	3.25	3.08	6.18	4.16	10.34	
			996T	67	6.44	6.21	9.34	4.16	13.50	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant0 Average Power + Ant1 Average Power + Directional Gain

- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT0	ANT1	MIMO			
UNII-7	119	6545	26T	0	-8.68	-9.55	-6.08	4.16	-1.92	24.00
				18	-7.13	-8.08	-4.57	4.16	-0.41	
				36	-7.17	-8.19	-4.64	4.16	-0.48	
			52T	37	-4.93	-5.64	-2.26	4.16	1.90	
				45	-4.78	-5.51	-2.12	4.16	2.04	
				52	-4.64	-5.49	-2.03	4.16	2.13	
			106T	53	-2.74	-3.15	0.07	4.16	4.23	
				57	-2.18	-2.54	0.65	4.16	4.81	
				60	-2.08	-2.50	0.73	4.16	4.89	
			242T	61	1.61	1.21	4.42	4.16	8.58	
				62	1.28	0.86	4.09	4.16	8.25	
				64	1.25	0.84	4.06	4.16	8.22	
			484T	65	3.20	2.88	6.05	4.16	10.21	
				66	3.25	2.87	6.07	4.16	10.23	
			996T	67	5.94	6.01	8.99	4.16	13.15	
	151	6705	26T	0	-8.46	-9.82	-6.08	4.16	-1.92	
				18	-7.17	-8.44	-4.75	4.16	-0.59	
				36	-7.77	-8.93	-5.30	4.16	-1.14	
			52T	37	-4.55	-5.82	-2.13	4.16	2.03	
				45	-4.91	-6.17	-2.48	4.16	1.68	
				52	-5.14	-6.37	-2.70	4.16	1.46	
			106T	53	-2.73	-3.02	0.14	4.16	4.30	
				57	-2.38	-2.63	0.51	4.16	4.67	
				60	-2.50	-2.73	0.40	4.16	4.56	
			242T	61	1.63	1.32	4.49	4.16	8.65	
				62	1.31	0.86	4.10	4.16	8.26	
				64	1.06	0.71	3.90	4.16	8.06	
			484T	65	4.45	4.12	7.30	4.16	11.46	
				66	4.16	4.01	7.10	4.16	11.26	
			996T	67	6.10	5.71	8.92	4.16	13.08	
	183	6865	26T	0	-8.13	-9.64	-5.81	4.16	-1.65	
				18	-7.07	-8.46	-4.70	4.16	-0.54	
				36	-7.55	-9.11	-5.25	4.16	-1.09	
			52T	37	-4.26	-4.68	-1.45	4.16	2.71	
				45	-4.41	-4.81	-1.60	4.16	2.56	
				52	-4.75	-5.14	-1.93	4.16	2.23	
			106T	53	-2.41	-2.87	0.38	4.16	4.54	
				57	-2.17	-2.58	0.64	4.16	4.80	
				60	-2.34	-2.79	0.45	4.16	4.61	
			242T	61	1.90	1.47	4.70	4.16	8.86	
				62	1.47	1.04	4.27	4.16	8.43	
				64	1.20	0.71	3.97	4.16	8.13	
			484T	65	4.57	3.89	7.25	4.16	11.41	
				66	4.42	3.58	7.03	4.16	11.19	
			996T	67	5.64	6.62	9.17	4.16	13.33	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant0 Average Power + Ant1 Average Power + Directional Gain

- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT0	ANT1	MIMO			
UNII-8	199	6945	26T	0	-4.21	-4.57	-1.38	1.34	-0.04	24.00
				18	-4.33	-5.11	-1.69	1.34	-0.35	
				36	-4.47	-5.21	-1.81	1.34	-0.47	
			52T	37	-2.04	-2.34	0.82	1.34	2.16	
				45	-2.22	-2.65	0.58	1.34	1.92	
				52	-2.26	-2.69	0.54	1.34	1.88	
			106T	53	0.60	0.14	3.39	1.34	4.73	
				57	0.83	0.36	3.61	1.34	4.95	
				60	0.68	0.34	3.52	1.34	4.86	
			242T	61	4.86	4.16	7.53	1.34	8.87	
				62	4.61	3.93	7.29	1.34	8.63	
				64	4.67	3.92	7.32	1.34	8.66	
			484T	65	7.68	6.94	10.34	1.34	11.68	
				66	7.59	6.81	10.23	1.34	11.57	
			996T	67	8.94	9.02	11.99	1.34	13.33	
	215	7025	26T	0	-4.17	-4.94	-1.53	1.34	-0.19	
				18	-4.21	-5.08	-1.61	1.34	-0.27	
				36	-4.32	-5.15	-1.70	1.34	-0.36	
			52T	37	-2.49	-2.84	0.35	1.34	1.69	
				45	-2.45	-3.02	0.28	1.34	1.62	
				52	-2.51	-3.03	0.25	1.34	1.59	
			106T	53	-0.25	-0.91	2.44	1.34	3.78	
				57	-0.38	-0.80	2.43	1.34	3.77	
				60	-0.41	-1.20	2.22	1.34	3.56	
			242T	61	4.75	3.68	7.26	1.34	8.60	
				62	4.42	3.38	6.94	1.34	8.28	
				64	4.36	3.31	6.88	1.34	8.22	
			484T	65	6.81	5.83	9.36	1.34	10.70	
				66	6.87	5.81	9.38	1.34	10.72	
			996T	67	9.01	7.71	11.42	1.34	12.76	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant0 Average Power + Ant1 Average Power + Directional Gain

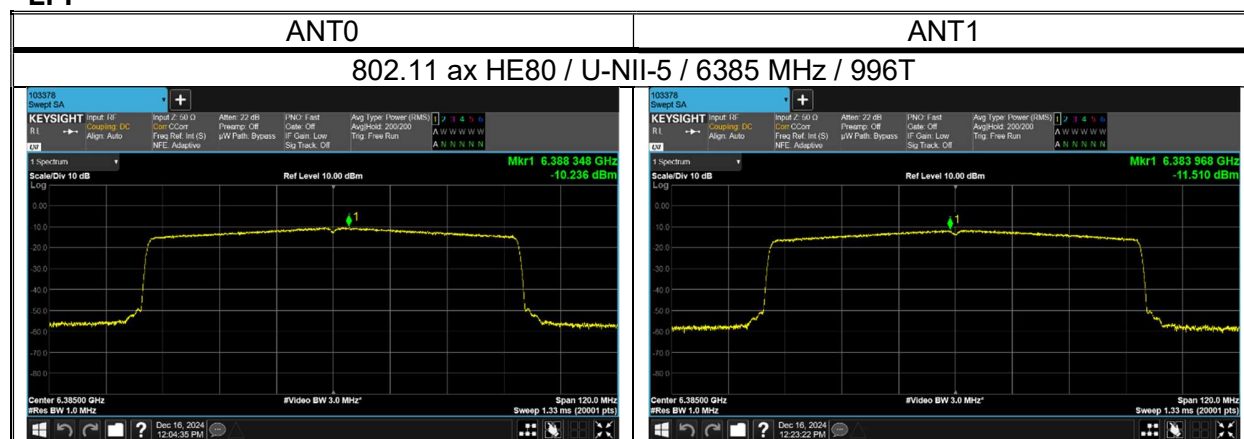
PSD Results
- LPI

Band	Channel	Freq. [MHz]	Tones	RU offset	Meas PSD [dBm/MHz]			DCCF	Direct. Gain [dBi]	Corr'd PSD e.i.r.p [dBm]	PSD e.i.r.p Limit [dBm/MHz]
					ANT0	ANT1	MIMO				
UNII-5	7	5985	26T	0	-10.36	-11.21	-7.75	1.00	4.75	-2.00	-1.00
				18	-11.48	-11.65	-8.55	1.00	4.75	-2.80	
			996T	36	-10.38	-10.44	-7.40	1.00	4.75	-1.65	
				67	-10.96	-11.16	-8.05	1.65	4.75	-1.65	
	39	6145	26T	0	-10.40	-10.81	-7.59	1.00	4.75	-1.84	
				18	-11.68	-11.78	-8.72	1.00	4.75	-2.97	
			996T	36	-10.23	-10.66	-7.43	1.00	4.75	-1.68	
				67	-10.83	-11.11	-7.96	1.65	4.75	-1.56	
	87	6385	26T	0	-10.63	-10.97	-7.78	1.00	4.75	-2.03	
				18	-11.73	-11.84	-8.77	1.00	4.75	-3.02	
			996T	36	-10.53	-11.03	-7.76	1.00	4.75	-2.01	
				67	-10.24	-11.51	-7.82	1.65	4.75	-1.42	
UNII-6	103	6465	26T	0	-9.79	-10.61	-7.17	1.00	4.16	-2.01	
				18	-10.60	-11.15	-7.86	1.00	4.16	-2.70	
			996T	36	-9.86	-10.41	-7.12	1.00	4.16	-1.96	
				67	-10.29	-10.80	-7.53	1.65	4.16	-1.72	
UNII-7	119	6545	26T	0	-10.13	-10.96	-7.52	1.00	4.16	-2.36	
				18	-10.63	-12.09	-8.29	1.00	4.16	-3.13	
			996T	36	-9.72	-10.43	-7.05	1.00	4.16	-1.89	
				67	-10.85	-10.87	-7.85	1.65	4.16	-2.04	
	151	6705	26T	0	-9.64	-10.83	-7.19	1.00	4.16	-2.03	
				18	-10.65	-12.02	-8.27	1.00	4.16	-3.11	
			996T	36	-10.41	-11.68	-7.99	1.00	4.16	-2.83	
				67	-10.40	-11.09	-7.72	1.65	4.16	-1.91	
	183	6865	26T	0	-9.71	-10.99	-7.29	1.00	4.16	-2.13	
				18	-10.52	-12.65	-8.45	1.00	4.16	-3.29	
			996T	36	-10.35	-12.08	-8.12	1.00	4.16	-2.96	
				67	-10.79	-10.11	-7.42	1.65	4.16	-1.61	
UNII-8	199	6945	26T	0	-6.97	-7.86	-4.38	1.00	1.34	-2.04	
				18	-8.00	-8.70	-5.33	1.00	1.34	-2.99	
			996T	36	-7.11	-7.87	-4.46	1.00	1.34	-2.12	
				67	-7.65	-8.01	-4.82	1.65	1.34	-1.83	
	215	7025	26T	0	-6.64	-7.53	-4.05	1.00	1.34	-1.71	
				18	-8.04	-8.63	-5.31	1.00	1.34	-2.97	
			996T	36	-6.91	-7.50	-4.19	1.00	1.34	-1.85	
				67	-7.48	-8.89	-5.12	1.65	1.34	-2.13	

* Corr'd PSD e.i.r.p = ANT0 Meas PSD + Ant1 Meas PSD + DCCF + Directional Gain

PPSD PLOTS (WORST CASE)

- LPI



11.2. IN-BAND EMISSIONS

LIMITS

FCC §15.407 (b) (7) / RSS-248 Issue 3, 4.6.2 (b)

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

TEST PROCEDURE

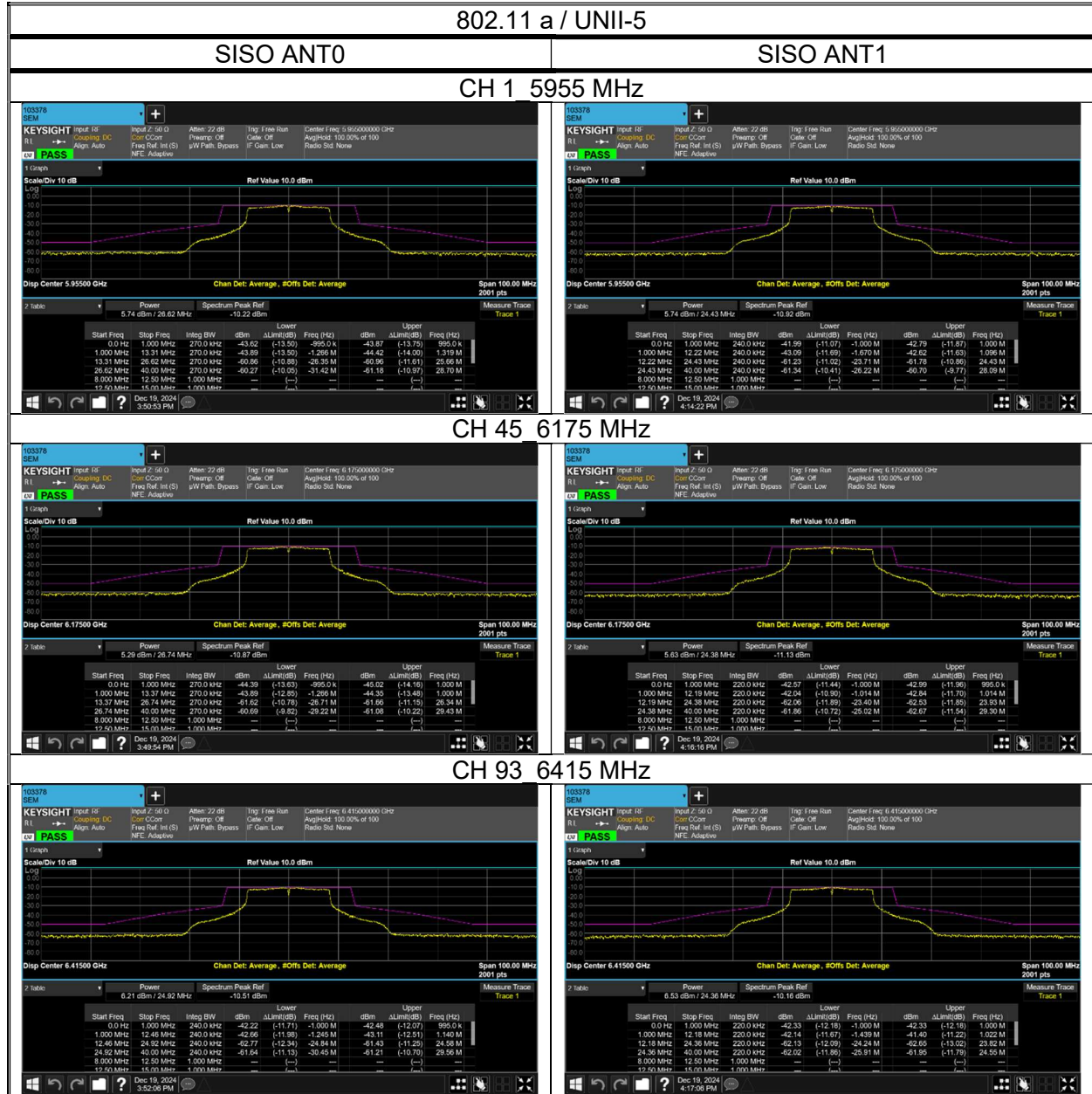
KDB 987594 D02

1. Connect output of antenna port to a spectrum analyzer, with appropriate attenuation, as to not damage the instrumentation.
2. Test reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10-2013.
3. Measure the 26dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013.
4. Measure the PSD (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

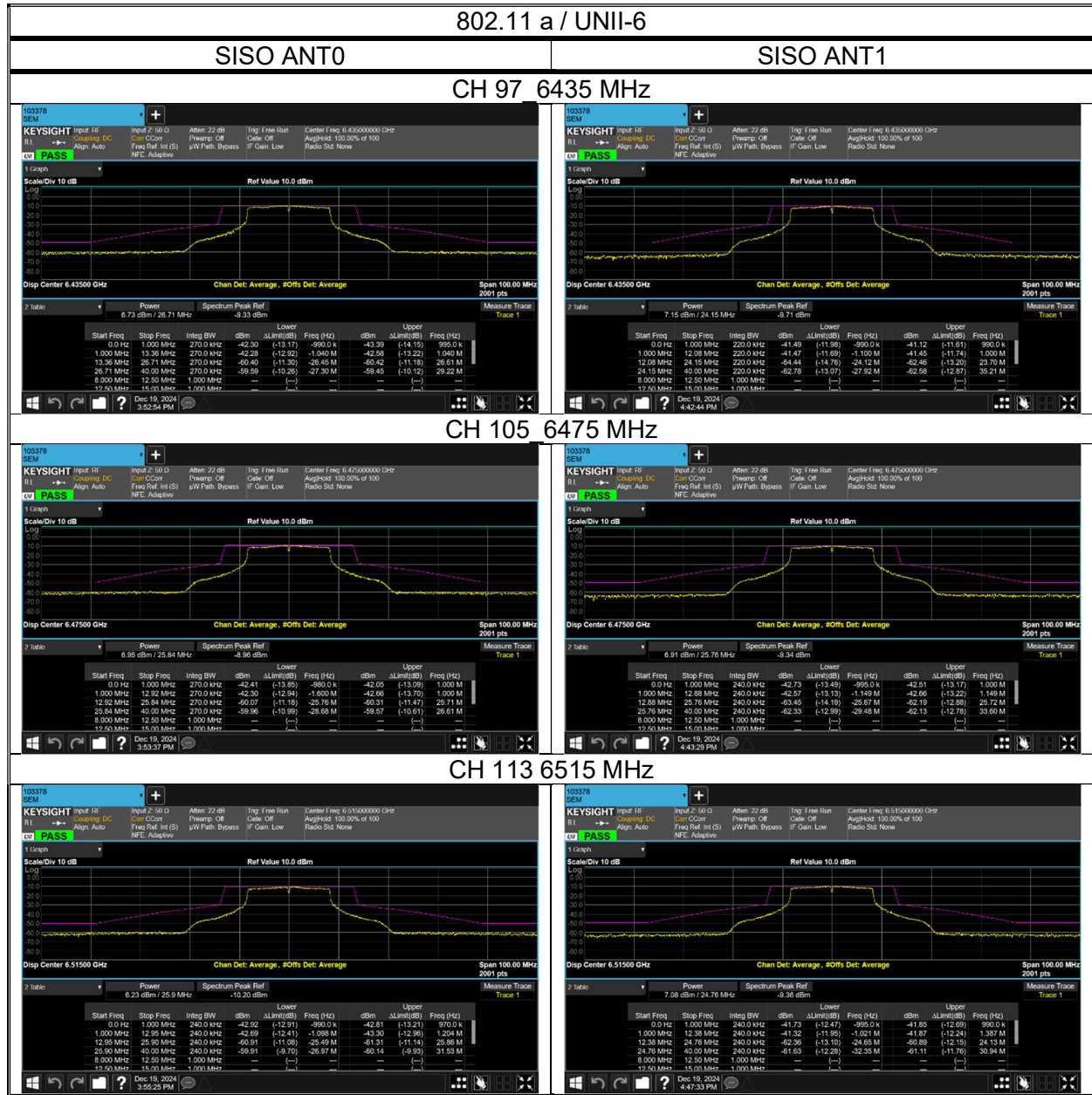
Note: FULL RU & RU modes are fully tested. FULL RU modes are reported the entire test case, RU modes are reported only the worst-case scenario.

11.2.1. 802.11 a MODE

- LPI



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- LPI

