

CERTIFICATION TEST REPORT

Report Number. : S-4792147635-E9V3

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

Model : SC-57G, SCG41

FCC ID : A3LSMF971JPN

EUT Description : GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII
a/b/g/n/ac/ax/be, NFC, WPT and UWB

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, NFC, WPT and UWB

MODEL NUMBER: SC-57G, SCG41

SERIAL NUMBER: 9bb3df7d5d4f7ee, R3GL3080DQK (CONDUCTED);
R3GL10KMYCZ, R3GL10KMFCP, R3GL10KMPTN, R3GL3080E7Z,
R3GL3080EJF (RADIATED);

DATE TESTED: 2026-03-03 ~ 2026-05-22

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	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
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Tested By:



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1.1. INTRODUCTION OF TEST DATA REUSE

This report references test data from original model: SM-F971U (FCC 47 CFR Part 15).

This data reuse has been conducted in accordance with KDB 484596 D01 Referencing Test Data v03 criteria, and RF performance equivalence between the two models (SM-F971U/U1 and SC-57G) has been verified through spot-check measurements.

The applicant takes full responsibility that the test data referenced in this report represent compliance for this FCC.

1.2. DIFFERENCE

Key differences between SM-F971U and SC-57G:

1. RF/Cellular Circuit Modifications:

The cellular band functionality has been modified through a combination of firmware changes and component replacement and depopulation. The hardware changes consist solely of component replacement and depopulation on the main board, with no changes to the circuit board layout.

For detailed change information, please refer to the "FCC Data Reuse Inquiry" document.

2. Common Elements:

- The SC-57G BT/WIFI block diagram and antenna structure remain identical to the SM-F971U.
- All other aspects including form factors, materials, functions, PCB layouts, and common components are the same between both models.

1.3. DEVIATION CRITERIA

1. RF spot-check justification based on worst-case configuration per KDB 484596 D01 Referencing Test Data v03 Section 3.2
 - Spot-check measurements shall be made in correspondence to the worst-case scenario reported in the reference device filing, i.e., for those conditions that are the closest to non-compliance.
 - For EMC compliance test data (e.g., spurious emissions limits), the deviation between the variant and the parent model, for both field and power quantities, is expressed as:

$$d_{dB} = |V_{dB} - R_{dB}|$$

where V_{dB} is the variant spot-check level in dB, and R_{dB} is the corresponding reference measurement level in dB for the parent model. The spot-check will be deemed acceptable when:

$$d_{dB} \leq d_{dBmax}$$

where d_{dBmax} is the maximum deviation d_{dB} allowed for the EMC data for the spot-check to be considered acceptable. The definition of d_{dBmax} is based on "how far" the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the test under consideration. More specifically, if M_{dB} is the margin in dB from the compliance limit, expressed as

$$M_{dB} = |C_{dB} - R_{dB}|$$

then d_{dBmax} is defined as a function of M_{dB} , which increases linearly from 3 dB to 6 dB, according to:

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB}, & \text{for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB}, & \text{for } M_{dB} > 60 \text{ dB} \end{cases}$$

2. The conducted powers of the variant model will be spot checked to be within the tune-up tolerance.

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{CRITERIA} &= 3 + (\text{Test limit} - \text{Measured original value})/20 \\ &= 3 + (54 \text{ dBuV/m} - 41.02 \text{ dBuV/m})/20 = 3.65 \text{ dB} \end{aligned}$$

1.4. REFERENCE DETAIL

Reference application that contains the reused reference data in the individual test reports:

Reference Model name (Application Type)	Reference Test Report	SC-57G Test Report
SM-F971U (Original Grant)	S-4792147575-E12 FCC Report UNII 5GHz(a,n,ac,ax,be) WLAN	Original: S-4792147635-E9V1_FCC Report_UNII 5GHz(a,n,ac,ax,be) WLAN S-4792147635-E11V1 FCC Report DFS, CBP

1.5. SPOT-CHECK VERIFICATION DATA

(Worst case of the radiated band-edge and spurious emissions)

Band	Test Item	Worst Mode	Frequency	Test Limit	Reference model	Variant model	Deviation	Criteria Value	Remark
					SM-F971U Results	SC-57G Results			
NII (Legacy)	1	BANDEDGE	802.11ac_VHT80_5210_MIMO	5210 MHz	54.00 dBuV/m	49.97 dBuV/m	49.69 dBuV/m	-0.28 dB	3.20 dB
		RSE	802.11a_5180_MIMO	6630 MHz	68.20 dBuV/m	54.84 dBuV/m	52.07 dBuV/m	-2.77 dB	3.67 dB
	2A	BANDEDGE	802.11n_HT40_5310_MIMO	5310 MHz	54.00 dBuV/m	47.88 dBuV/m	49.47 dBuV/m	1.59 dB	3.31 dB
		RSE	802.11a_5300_MIMO	10600 MHz	54.00 dBuV/m	40.13 dBuV/m	39.03 dBuV/m	-1.10 dB	3.69 dB
	2C	BANDEDGE	802.11ac_VHT160_5570_MIMO	5570 MHz	68.20 dBuV/m	61.65 dBuV/m	59.49 dBuV/m	-2.16 dB	3.33 dB
		RSE	802.11a_5580_MIMO	11160 MHz	54.00 dBuV/m	40.33 dBuV/m	41.69 dBuV/m	1.36 dB	3.68 dB
	3	BANDEDGE	802.11ac_VHT160_5815_MIMO	5815 MHz	-27.00 dBm	-36.05 dBm	-36.31 dBm	-0.26 dB	3.45 dB
		RSE	802.11a_5745_MIMO	6894 MHz	68.20 dBuV/m	47.68 dBuV/m	47.78 dBuV/m	0.10 dB	4.03 dB
	4	BANDEDGE	802.11n_HT20_5885_MIMO	5885 MHz	89.97 dBuV/m	76.15 dBuV/m	73.60 dBuV/m	-2.55 dB	3.69 dB
		RSE	802.11a_5885_MIMO	7062 MHz	68.20 dBuV/m	47.65 dBuV/m	47.54 dBuV/m	-0.11 dB	4.03 dB
NII (Wi-Fi 7)	1	BANDEDGE	802.11be_EHT160_5250_SU_MIMO	5250 MHz	54.00 dBuV/m	51.31 dBuV/m	48.98 dBuV/m	-2.33 dB	3.13 dB
		RSE	802.11be_EHT20_5180_106T_RU53_MIMO	8133 MHz	54.00 dBuV/m	38.66 dBuV/m	39.48 dBuV/m	0.82 dB	3.77 dB
	2A	BANDEDGE	802.11be_EHT40_5310_SU_MIMO	5310 MHz	54.00 dBuV/m	50.86 dBuV/m	50.53 dBuV/m	-0.33 dB	3.16 dB
		RSE	802.11be_EHT20_5300_106T_RU54_MIMO	10600 MHz	54.00 dBuV/m	39.78 dBuV/m	39.30 dBuV/m	-0.48 dB	3.71 dB
	2C	BANDEDGE	802.11be_EHT160_5570_SU_MIMO	5570 MHz	68.20 dBuV/m	65.79 dBuV/m	63.39 dBuV/m	-2.40 dB	3.12 dB
		RSE	802.11be_EHT20_5580_106T_RU53_MIMO	6696 MHz	68.20 dBuV/m	47.17 dBuV/m	47.65 dBuV/m	0.48 dB	4.05 dB
	3	BANDEDGE	802.11be_EHT160_5815_SU_MIMO	5815 MHz	-27.00 dBm	-34.40 dBm	-32.50 dBm	1.90 dB	3.37 dB
		RSE	802.11be_EHT20_5745_106T_RU54_MIMO	6894 MHz	68.20 dBuV/m	46.98 dBuV/m	47.32 dBuV/m	0.34 dB	4.06 dB
	4	BANDEDGE	802.11be_EHT20_5885_SU_MIMO	5885 MHz	89.99 dBuV/m	85.54 dBuV/m	85.33 dBuV/m	-0.21 dB	3.22 dB
		RSE	802.11be_EHT20_5885_106T_RU53_MIMO	11770 MHz	68.20 dBuV/m	47.11 dBuV/m	46.66 dBuV/m	-0.45 dB	4.05 dB

1.6. FULL TEST DATA MODES

Targets have been adjusted in some channels because customer's request. So, these channels have been re-tested.

have been tested.

Band		BW (MHz)	Channel	Frequency (MHz)	Mode	Target (dBm)	
						SM-F971U	SC-57G
UNII-1	5.2	40	38	5190	n40	20	17
UNII-2A	5.3	40	62	5310	n40	20	17
		80	58	5290	ac80	20	18
					ax/be80_SU	20	18
					ax/be80_RU_484T_66RU	20	18
					ax/be80_MRU_484+242T_90RU	20	18
		160	50	5250	ax/be160_RU_242T_80U_64RU	20	18
					ax/be160_RU_484T_80U_66RU	20	18
					ax/be160_RU_996T_80U_67RU	20	18
UNII-2C	5.5	40	102	5510	n40	20	17
		134	5670	n40	20	17	
UNII-3	5.8	40	151	5755	n40	20	19
UNII-4	5.9	40	175	5875	n40	20	19
		80	171	5855	ac80	20	19

(Upper tolerance: Target +1.0dB)

2. TEST METHODOLOGY

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

1. FCC CFR 47 Part 2.
2. FCC CFR 47 Part 15.
3. KDB 789033 D02 General UNII Test Procedures New Rules v02r01
4. KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
5. KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02
6. KDB 662911 D01 v02r01
7. KDB 291074 D02 v01
8. ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, 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.

218 Maeyeong-ro	
☒	Chamber 1(3m semi-anechoic chamber)
☒	Chamber 2(3m semi-anechoic chamber)
☒	Chamber 3(3m semi-anechoic chamber)
☐	Chamber 4(3m Full-anechoic chamber)
☐	Chamber 5(3m Full-anechoic chamber)

UL KOREA LTD. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. CALIBRATION AND UNCERTAINTY

4.1. 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.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
RF Output Power	0.70 dB
Power Spectral Density	1.99 dB
Time (Duty cycle and DFS)	0.62 %
Occupied Bandwidth	0.04 %
Conducted Disturbance, 9 kHz to 30 MHz	1.84 dB
Radiated Disturbance, 9 kHz to 30 MHz	2.41 dB
Radiated Disturbance, 30 MHz to 1 GHz	3.78 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.25 dB
Radiated Disturbance, 18 GHz to 40 GHz	5.07 dB

Uncertainty figures are valid to a confidence level of 95%.

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Clause 4.4.3 in IEC Guide 115:2023.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, NFC, WPT and UWB. This test report addresses the NII (WLAN) operational mode.

Representative model	Comparison Criteria	Derivative model
		SCG41
SC-57G	Hardware	Identical
	Software	UI modified according to Service Provider specifications

The SC-57G model was used as the representative model for final testing. All test results in this report apply to both the representative model and its derivative variants.

WiFi operating mode

Frequency rage	Mode	ANT1	ANT2
5GHz (5150 MHz~5925 MHz)	802.11a MIMO	TX/RX	TX/RX
	802.11n MIMO	TX/RX	TX/RX
	802.11ac MIMO	TX/RX	TX/RX
	802.11ax MIMO	TX/RX	TX/RX
	802.11be MIMO	TX/RX	TX/RX

Simultaneous TX Condition

Mode	# of TX	5GHz / 6GHz WLAN		2.4GHz WLAN		Bluetooth	Test Case
		ANT1	ANT2	ANT1	ANT2	ANT1	
2.4GHz MIMO + 5GHz MIMO	4	O	O	O	O	-	O
2.4GHz SISO + 5GHz MIMO + Bluetooth SISO	4	O	O	-	O	O	O
2.4GHz SISO + 6GHz MIMO + Bluetooth SISO	4	O	O	-	O	O	O

Note. Simultaneous transmission with the Bluetooth and Wi-Fi were investigated, and no noticeable emission was found.

Test RU offset for tones in each modes

Mode	Tones	RU offset
EHT20	26T	0
		4
		8
	52T	37
		38
		40
	106T	53
		54
	242T / SU Note	61 / -
EHT20 (Multi-RU)	52+26T	70
		71
		72
	106+26T	82
		83
EHT40	26T	0
		9
		17
	52T	37
		41
		44
	106T	53
		54
	242T	56
		61
	484T / SU Note	62
		63 / -
EHT80	26T	0
		18
		36
	52T	37
		45
		52
	106T	53
		57
		60
	242T	61
		62
		64
	484T	65
		66
	996T / SU Note	67 / -
		93
EHT80 (Multi-RU)	484+242T	91
		90
		90

Mode	Tones	80 MHz * 2	RU offset
EHT160	26T.	Lower 80 MHz	0L
		Upper 80 MHz	0U
	52T	Lower 80 MHz	36U
		Upper 80 MHz	37L
	106T	Lower 80 MHz	37U
		Upper 80 MHz	52U
	242T	Lower 80 MHz	53L
		Upper 80 MHz	53U
	484T	Lower 80 MHz	60U
		Upper 80 MHz	61L
EHT160 (Multi-RU)	996T	Lower 80 MHz	61U
		Upper 80 MHz	64U
	996T	Lower 80 MHz	65L
		Upper 80 MHz	66L
	996T	Lower 80 MHz	66U
		Upper 80 MHz	67L
	996T	Lower 80 MHz	67U
		Upper 80 MHz	67U
	SU ^{Note}	-	-
	996+484T	-	1095
	996+484+242T (20M Puncture)	-	95
			94
			1099
			99
			96

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.

Band portion of RU allocation about straddle channels

Mode	Channel	Tones	RU offset	Portion
EHT20	Straddle 5720 MHz	26T	6	UNII 2C & UNII 3
		242T / SU	61 / -	
EHT40	Straddle 5710 MHz	26T	15	UNII 2C & UNII 3
		484T / SU	65 / -	
EHT80	Straddle 5690 MHz	26T	34	UNII 2C & UNII 3
		996T / SU	67 / -	

Note: In case of RU straddle channel, test was performed overlapping RU position.

MAXIMUM OUTPUT POWER

The transmitter has a maximum total conducted average output power as follows except UNII-4 listed is based on EIRP as noted:

Band	Frequency Range [MHz]	Mode	Output Power [dBm]	Output Power [mW]
UNII-1	5180 - 5240	802.11a MIMO	20.26	106.17
		802.11n(HT20) MIMO	19.91	97.95
		802.11be EHT20 MIMO	20.20	104.71
	5190 - 5230	802.11n(HT40) MIMO	20.03	100.69
		802.11be EHT40 MIMO	19.79	95.28
	5210	802.11ac(VHT80) MIMO	18.94	78.34
		802.11be EHT80 MIMO	19.22	83.56
UNII-2A	5260 - 5320	802.11a MIMO	19.94	98.63
		802.11n(HT20) MIMO	20.00	100.00
		802.11be EHT20 MIMO	20.20	104.71
	5270 - 5310	802.11n(HT40) MIMO	20.03	100.69
		802.11be EHT40 MIMO	20.29	106.91
	5290	802.11ac(VHT80) MIMO	17.75	59.57
		802.11be EHT80 MIMO	20.17	103.99
	5250 ^{Note1}	802.11ac(VHT160) MIMO	20.04	100.93
		802.11be EHT160 MIMO	18.98	79.07
UNII-2C	5500 - 5720	802.11a MIMO	20.15	103.51
		802.11n(HT20) MIMO	20.04	100.93
		802.11be EHT20 MIMO	20.11	102.57
	5510 - 5710	802.11n(HT40) MIMO	20.11	102.57
		802.11be EHT40 MIMO	20.18	104.23
	5530 - 5690	802.11ac(VHT80) MIMO	20.05	101.16
		802.11be EHT80 MIMO	20.18	104.23
	5570	802.11ac(VHT160) MIMO	19.68	92.90
		802.11be EHT160 MIMO	19.92	98.17
UNII-3	5745 - 5825	802.11a MIMO	19.80	95.50
		802.11n(HT20) MIMO	19.82	95.94
		802.11be EHT20 MIMO	20.10	102.33
	5755 - 5795	802.11n(HT40) MIMO	20.25	105.93
		802.11be EHT40 MIMO	20.09	102.09
	5775	802.11ac(VHT80) MIMO	19.86	96.83
		802.11be EHT80 MIMO	20.14	103.28
UNII-4 (e.i.r.p)	5845 - 5885	802.11a MIMO	18.02	63.39
		802.11n(HT20) MIMO	17.64	58.08
		802.11be EHT20 MIMO	17.91	61.80
	5835 - 5875	802.11n(HT40) MIMO	18.16	65.46
		802.11be EHT40 MIMO	17.94	62.23
	5855	802.11ac(VHT80) MIMO	17.08	51.05
		802.11be EHT80 MIMO	17.98	62.81
	5815 ^{Note2}	802.11ac(VHT160) MIMO	17.76	59.70
		802.11be EHT160 MIMO	18.15	65.31

Note1. Overlap channel(UNII-1 & 2A)

Note2. Overlap channel(UNII-3 & 4)

5.2. 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]	ANT1 Gain [dBi]	ANT2 Gain [dBi]	Correlated Chains Directional Gain[dBi]
UNII 1	5150–5250	-7.19	-5.58	-3.34
UNII 2A	5250–5350	-6.09	-3.14	-1.48
UNII 2C	5470–5725	-7.78	-4.93	-3.23
UNII 3	5725–5850	-8.42	-4.34	-3.13
UNII 4	5850–5925	-6.58	-3.83	-2.09

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.

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

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

Directional gain = $10 \log[(10^{-6.09/20} + 10^{-3.14/20})^2 / 2] = -1.48$ dBi

“SUB2” and “SUB1” as indicated in antenna specification are written as ANT1 and ANT2 in this report.

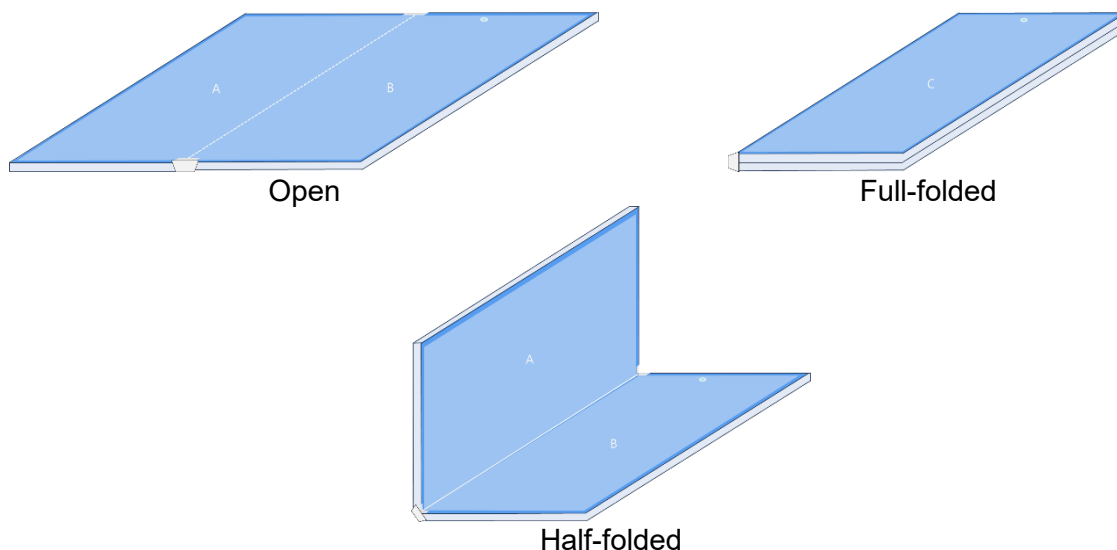
5.3. List of test reduction and modes covering other modes:

The output power on covered modes is equal to or less than one referenced.

Authorized Frequency Band			
Mode	Antenna Stream	Mode	Covered by
802.11a	MIMO	802.11a 2TX	
802.11n HT20		802.11n HT20 2TX	
802.11ac VHT20		802.11ac VHT20 2TX	802.11n HT20 2TX
802.11ax HE20		802.11ax HE20 2TX	802.11be EHT20 2TX
802.11be EHT20		802.11be EHT20 2TX	
802.11n HT40		802.11n HT40 2TX	
802.11ac VHT40		802.11ac VHT40 2TX	802.11n HT40 2TX
802.11ax HE40		802.11ax HE40 RU 2TX	802.11be EHT40 RU 2TX
802.11be EHT40		802.11be EHT40 RU 2TX	
802.11ac VHT80		802.11ac VHT80 2TX	
802.11ax HE80		802.11ax HE80 2TX	802.11be EHT80 2TX
802.11be EHT80		802.11be EHT80 2TX	
802.11ac VHT160		802.11ac VHT160 2TX	
802.11ax HE160		802.11ax HE160 2TX	802.11be EHT160 2TX
802.11be EHT160		802.11be EHT160 2TX	

5.4. WORST-CASE CONFIGURATION AND MODE

Both SISO and MIMO have been investigated and confirmed that MIMO was the worst case set for radiated band edge and spurious emission tests.



UNII Bands	Radiated Band-edge emissions		Radiated spurious emissions	
	Foldable condition	EUT axis	Foldable condition	EUT axis
UNII 1	Open	X	Full-folded	Z
UNII 2A	Open	X	Full-folded	Z
UNII 2C	Half-folded	Z	Open	Y
UNII 3	Half-folded	Z	Full-folded	X
UNII 4	Half-folded	Z	Half-folded	X

For the 2TX MIMO mode, band-edge measurements and spurious emissions tests were performed as shown in the table above, representing the worst-case scenario.

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

Simultaneous transmission with related transmitters were investigated and no noticeable emission was found.

For the radiated spurious test, 802.11a 2TX mode was tested representatively in OFDM mode. Other OFDM modes were set as full tests if they had higher PSD results than 802.11a 2TX mode. For OFDMA mode, the highest power offset of the tone showing the highest PSD reading for each bandwidth in the worst channel of 802.11a 2TX mode was spot checked.

For radiated band-edge test, 802.11a 2TX, 802.11n 2TX, 802.11ac 2TX, 802.11be 2TX SU & MRU modes were fully tested except 802.11be 2TX partial RU modes. 802.11be SU and MRU modes resulted in worse radiated band-edge test results than partial RU modes; therefore, SU and MRU mode was reported.

For the 802.11be mode, output power and PSD tests were investigated among all different tones. The SU mode has the widest bandwidth, and for partial RU cases, tests were performed on tones showing the highest PSD readings for each bandwidth. The 242 tone at 40/80/160 MHz is the highest power tone, with output power listed. Therefore, tests were performed in both SU mode and worst-case(highest PSD) partial RU mode by bandwidth. MRU modes were verified in the channel showing the highest PSD of single RU.

In case of 26dB Bandwidth, it was tested at the RU allocation with lowest tones number, RU 106Tones as the worst-case scenario.

In case of 6dB Bandwidth, it was tested at the RU allocation with lowest tones number, RU 26Tones as the worst-case scenario.

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

802.11a mode: 6 Mbps 2Tx
802.11n HT20 mode: MCS0 2Tx
802.11n HT40 mode: MCS0 2Tx
802.11ac VHT80 mode: MCS0 2Tx
802.11ac VHT160 mode: MCS0 2Tx
802.11be EHT20 mode: MCS0 2Tx
802.11be EHT 40 mode: MCS0 2Tx
802.11be EHT 80 mode: MCS0 2Tx
802.11be EHT 160 mode: MCS0 2Tx

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-T2510	N/A	N/A
Data Cable	SAMSUNG	EP-DN980	N/A	N/A

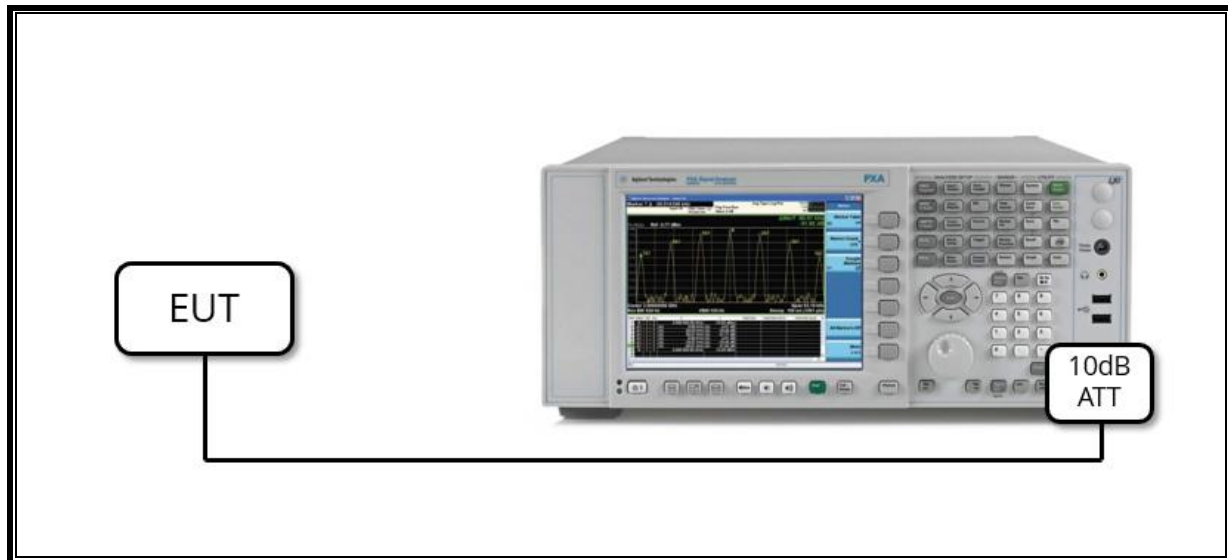
I/O CABLE

I/O Cable List						
Cable No.	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	C Type	Shielded	1.0 m	N/A

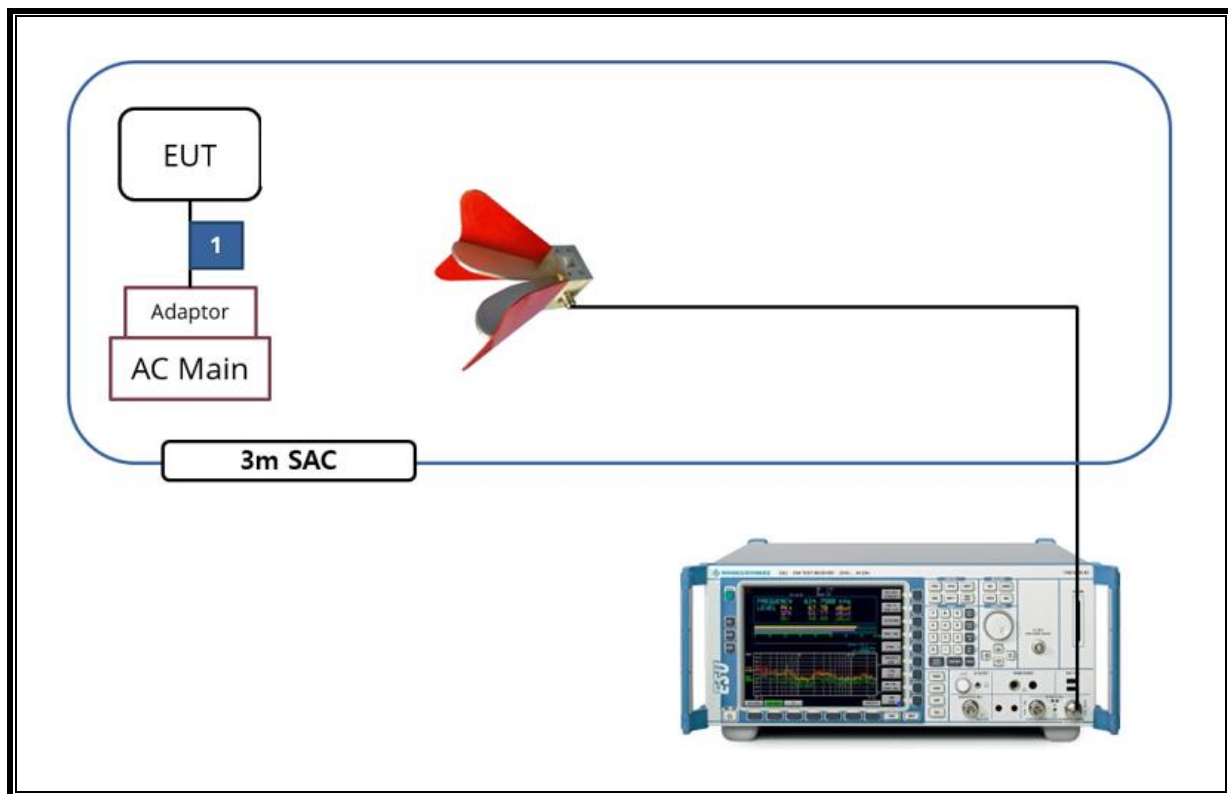
TEST SETUP

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

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	749	2026-08-12
Antenna, Horn, 18 GHz	ETS	3117	00168717	2026-07-17
Antenna, Horn, 18 GHz	ETS	3117	00218957	2027-03-24
Antenna, Horn, 40 GHz	ETS	3116C	00166155	2026-07-23
Preamplifier	ETS	3116C-PA	00168841	2026-07-28
Preamplifier, 1000 MHz	Sonoma	310N	341282	2026-07-21
Preamplifier, 18 GHz	B&Z Technologies, LLC	BZR-01001800-231040-181515	23576	2026-07-22
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2026-07-21
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2026-07-21
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9030B	MY60070693	2027-01-07
RF Switching Unit	TA Engineering	TA-018S-16	SW-1	N/A
Average Power Sensor	Agilent / HP	U2000A	MY54270007	2026-07-22
Average Power Sensor	Agilent / HP	U2000A	MY54260010	2026-07-22
Attenuator	PASTERNAK	PE7087-10	A001	2026-07-22
Attenuator	PASTERNAK	PE7087-10	A008	2026-07-22
Attenuator	PASTERNAK	PE7004-10	2	2026-07-22
Attenuator	PASTERNAK	PE7087-10	A009	2026-07-22
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2026-07-21
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2026-07-21
EMI Test Receive, 3 GHz	R&S	ESR 3	101832	2026-11-11
Notch Filter	Micro-Tronics	BRM50702-02	G037	2026-07-23
Notch Filter	Micro-Tronics	BRM50716-2	006	2026-07-23
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	020	2026-07-21
High Pass Filter 3GHz	Micro-Tronics	HPM17543	20	2026-07-21
High Pass Filter 6GHz	Micro-Tronics	HPS17542	009	2026-07-21
LISN	R&S	ENV216	101836	2026-07-22
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2E	101308	2027-10-27
Termination	WEINSCHL	M1406A	T08	2026-07-22
Attenuator	WEINSCHL	WA76-30-21	A015	2026-07-22
UL Software				
Description	Manufacturer	Model	Version	
Radiated software	UL	UL EMC	Ver 9.5	
AC Line Conducted software	UL	UL EMC	Ver 9.5	

7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result
15.407(e)	6dB Bandwidth (5.725–5.895)	> 500kHz	Conducted	Complies
15.407 (a)(1)(iv)	TX Cond. Power (5.150–5.250)	< 24dBm		Complies
15.407 (a)(2)	TX Cond. Power (5.250–5.350 & 5.470–5.725)	< 24dBm or 11+10Log(26dB BW)		Complies
15.407 (a)(3)(i)	TX Cond. Power (5.725–5.850)	< 30dBm		Complies
15.407 (a)(3)(iii)	TX Cond. Power (5.850–5.895)	< 30dBm e.i.r.p.		Complies
15.407 (a)(1)(iv) & (a)(2)	PSD (5.150–5.350 & 5.470–5.725)	< 11dBm/MHz		Complies
15.407 (a)(3)	PSD (5.725–5.850)	< 30dBm/500kHz		Complies
15.407 (a)(3)(iii)	PSD (5.850–5.895)	< 14dBm/MHz e.i.r.p.		Complies
15.207 (a)	AC Power Line conducted emissions	Section 13	Radiated	Complies
15.407 (b) & 15.209	Radiated Spurious Emission	< 74dBuV/m PK < 54dBuV/m AV		Complies
15.407 (h)(2)	Dynamic Frequency Selection	N/A	Condcuted	Complies

8. MEASUREMENT METHODS

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

6dB Emission BW: KDB 789033 D02 v02r01, Section II.C.2.

26dB Emission BW: ANSI C63.10-2020, Section 12.5.2.

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

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

Conducted Output Power for Straddle Channel (ch144/142/138 for 20/40/80MHz BW):

KDB 789033 D02 v02r01, Section II.E.2.b(Method SA-1)

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

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.

9. REFERENCE MEASUREMENTS RESULTS

9.1. 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 MIMO	1.799	2.014	0.8932	89.32	0.49
802.11n(HT20) MIMO	5.005	5.126	0.9764	97.64	0.10
802.11n(HT40) MIMO	2.420	2.541	0.9524	95.24	0.21
802.11ac(VHT80) MIMO	1.740	1.846	0.9426	94.26	0.26
802.11ac(VHT160) MIMO	1.744	1.851	0.9422	94.22	0.26

Mode	ANT.	Tone	On Time [ms]	Period [ms]	Duty Cycle X [Linear]	Duty Cycle X [%]	Duty Cycle Correction Factor[dB]
802.11be EHT20	MIMO	106T	1.429	1.489	0.9597	95.97	0.18
		SU	5.425	5.467	0.9923	99.23	0.00
802.11be EHT40	MIMO	106T	1.427	1.454	0.9814	98.14	0.00
		SU	5.422	5.463	0.9925	99.25	0.00
802.11be EHT80	MIMO	106T	1.429	1.455	0.9821	98.21	0.00
		SU	5.422	5.467	0.9918	99.18	0.00
802.11be EHT160	MIMO	106T	1.428	1.453	0.9828	98.28	0.00
		SU	5.422	5.463	0.9925	99.25	0.00

Mode	ANT.	Tone	On Time [ms]	Period [ms]	Duty Cycle X [Linear]	Duty Cycle X [%]	Duty Cycle Correction Factor[dB]
802.11be EHT20	MIMO	52+26T	1.990	2.018	0.9861	98.61	0.00
		106+26T	1.175	1.198	0.9808	98.08	0.00
802.11be EHT80	MIMO	484+242T	0.501	0.521	0.9618	96.18	0.17
802.11be EHT160	MIMO	996+484T	0.486	0.506	0.9605	96.05	0.18
		996+484+242T	5.422	5.463	0.9925	99.25	0.00

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

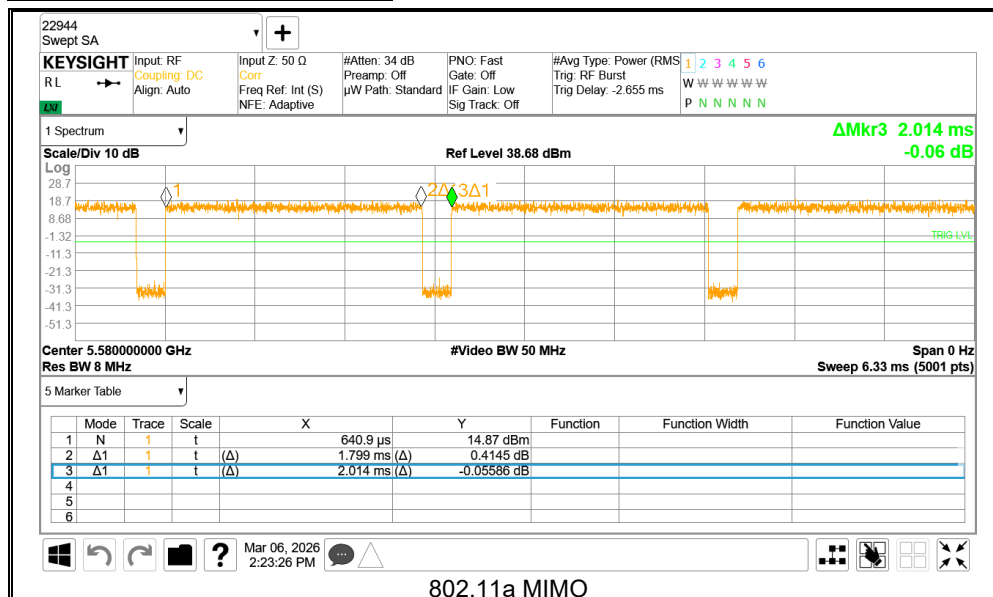
LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 789033 D02 v02r01 Zero-Span Spectrum Analyzer Method.

DUTY CYCLE SAMPLE PLOTS



9.2. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

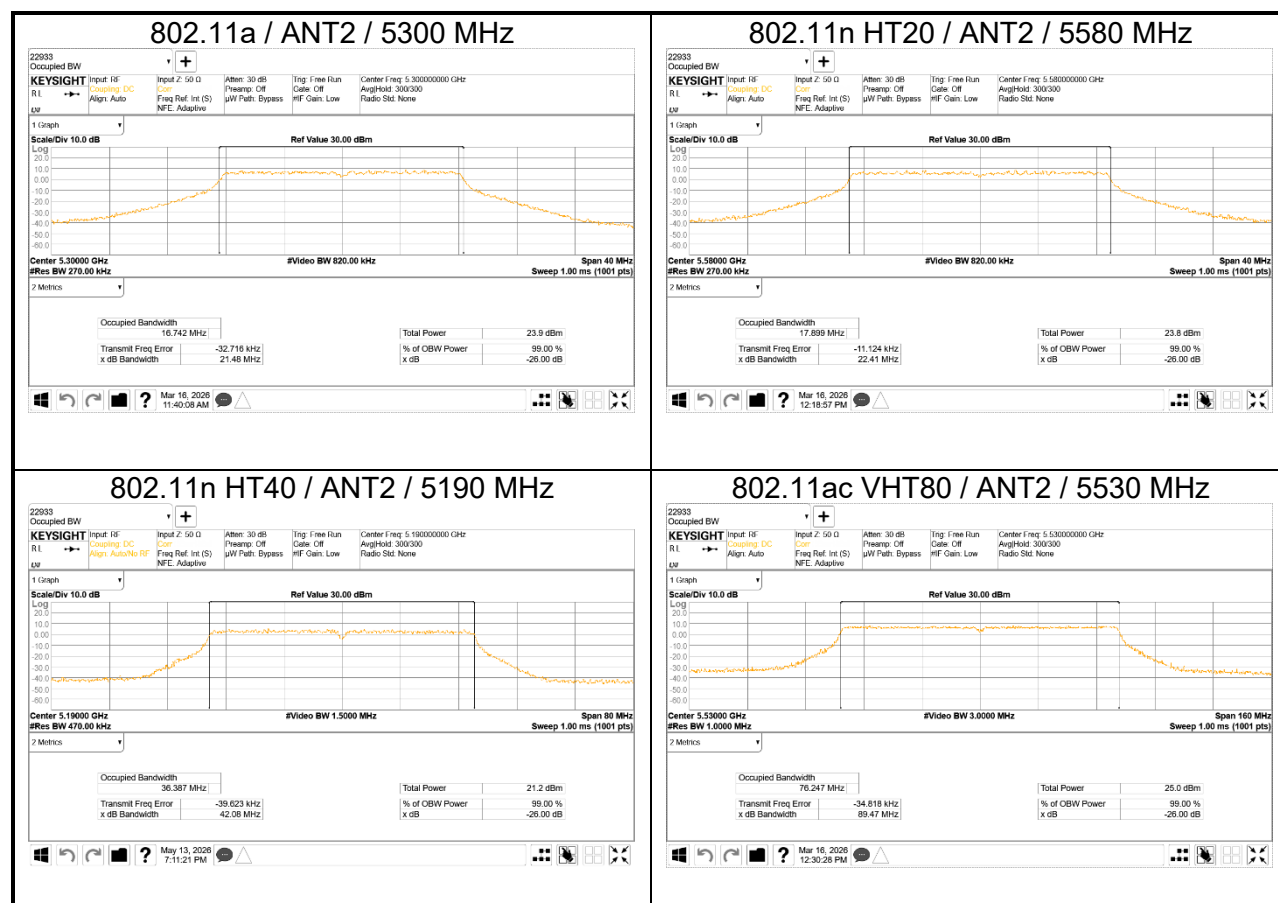
TEST PROCEDURE

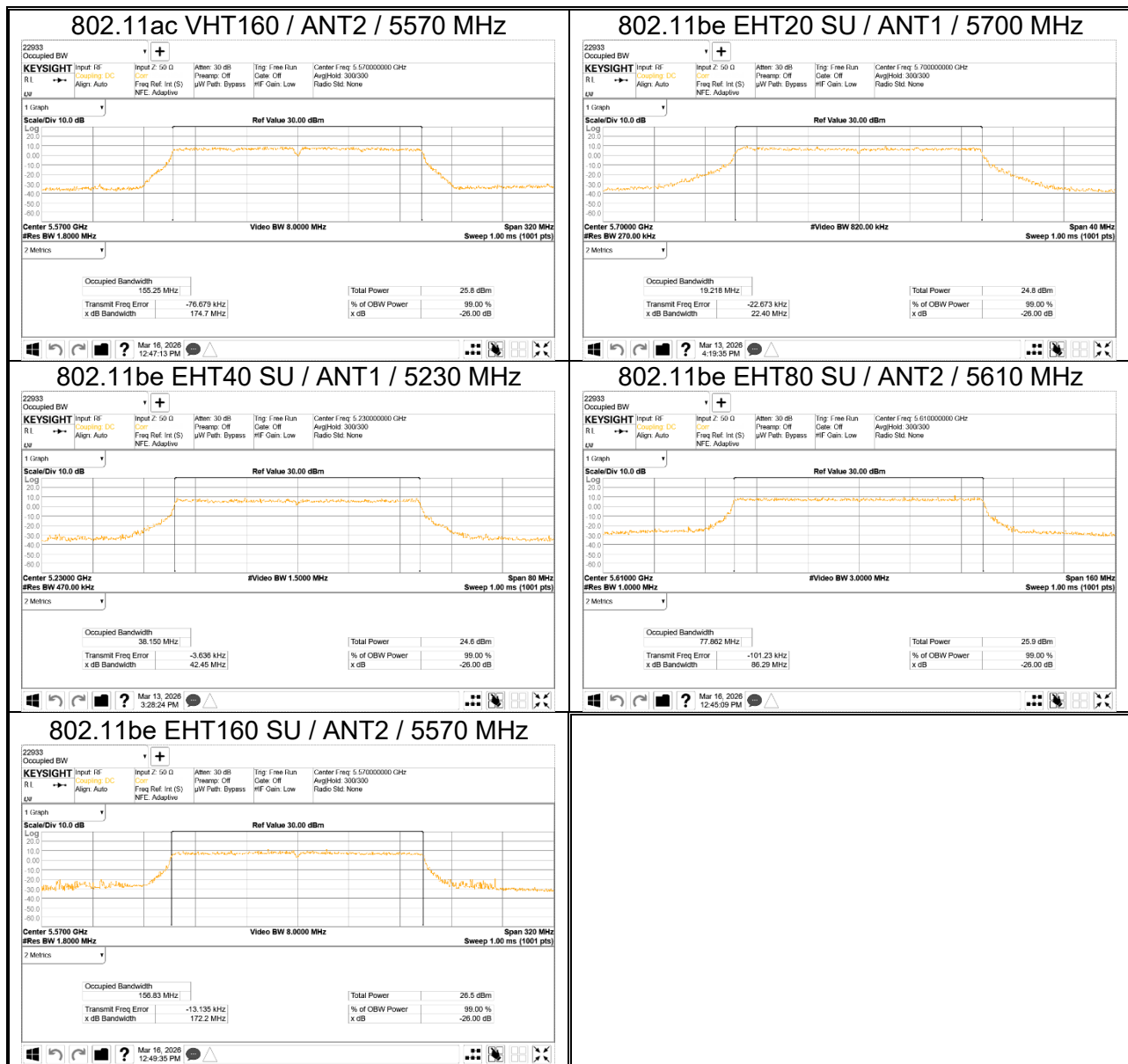
Reference to ANSI C63.10-2020, Section 12.5.2: The transmitter output is connected to a spectrum analyzer with the RBW set to a value in the range of 1% to 5% of the emission bandwidth, the VBW > RBW, peak detector and max hold.

RESULTS

- Please refer to the next page

WORST CASE TEST PLOTS





9.2.1. 802.11a

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			ANT1	ANT2		ANT1	ANT2
UNII-1 ^{Note}	36	5180	22.59	21.81	21.81	16.830	16.745
	40	5200	22.48	22.37		16.835	16.764
	48	5240	22.40	22.05		16.846	16.716
UNII-2A ^{Note}	52	5260	22.27	21.75	21.48	16.831	16.792
	60	5300	22.61	21.48		16.766	16.742
	64	5320	22.08	22.05		16.825	16.778
UNII-2C	100	5500	22.63	22.34	21.93		
	116	5580	22.38	21.93			
	140	5700	22.72	22.06			

Note. As a result of 99% bandwidth test, the bandwidth of UNII-1 does not interfere with UNII-2A.

9.2.2. 802.11n HT20

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			ANT1	ANT2		ANT1	ANT2
UNII-1 ^{Note}	36	5180	22.96	22.85	22.79	18.025	17.944
	40	5200	24.05	23.37		18.057	17.925
	48	5240	23.78	22.79		18.023	17.927
UNII-2A ^{Note}	52	5260	23.41	22.64	22.60	18.046	17.934
	60	5300	23.87	22.60		18.029	17.936
	64	5320	23.54	22.82		18.031	17.914
UNII-2C	100	5500	23.50	22.98	22.41		
	116	5580	23.59	22.41			
	140	5700	23.38	22.87			

Note. As a result of 99% bandwidth test, the bandwidth of UNII-1 does not interfere with UNII-2A.

9.2.3. 802.11n HT40

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			ANT1	ANT2		ANT1	ANT2
UNII-1 ^{Note}	38	5190	43.99	42.08	42.08	36.477	36.387
	46	5230	44.50	43.43		36.758	36.513
UNII-2A ^{Note}	54	5270	45.50	43.48	42.09	36.771	36.526
	62	5310	43.78	42.09		36.492	36.387
UNII-2C	102	5510	43.58	42.11	42.11		
	110	5550	44.50	43.00			
	134	5670	43.73	42.61			

Note. As a result of 99% bandwidth test, the bandwidth of UNII-1 does not interfere with UNII-2A.

9.2.4. 802.11ac VHT80

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			ANT1	ANT2		ANT1	ANT2
UNII-1 ^{Note}	42	5210	92.63	91.39	91.39	76.544	76.334
UNII-2A ^{Note}	58	5290	89.77	89.67	89.67	76.321	76.260
UNII-2C	106	5530	91.37	89.47	89.47		
	122	5610	91.97	90.03			

Note. As a result of 99% bandwidth test, the bandwidth of UNII-1 does not interfere with UNII-2A.

9.2.5. 802.11ac VHT160

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			ANT1	ANT2		ANT1	ANT2
UNII-1&2A	50	5250	177.00	174.80	174.80		
UNII-2C	114	5570	178.00	174.70	174.70		

9.2.6. 802.11be EHT20

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz] ^(Note)	
			ANT1	ANT2		ANT1	ANT2
UNII-1 ^{Note}	36	5180	23.13	23.45	22.60	19.244	19.178
	40	5200	23.20	22.62		19.190	19.168
	48	5240	23.08	22.60		19.173	19.219
UNII-2A ^{Note}	52	5260	22.86	23.77	22.86	19.208	19.191
	60	5300	23.21	23.02		19.219	19.172
	64	5320	23.30	22.96		19.226	19.191
UNII-2C	100	5500	22.74	22.72	22.40		
	116	5580	22.93	23.06			
	140	5700	22.40	23.27			

Note. As a result of 99% bandwidth test, the bandwidth of UNII-1 does not interfere with UNII-2A.

9.2.7. 802.11be EHT40

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz](Note)	
			ANT1	ANT2		ANT1	ANT2
UNII-1 ^{Note}	38	5190	44.29	43.32	42.45	38.155	38.138
	46	5230	42.45	44.13		38.150	38.138
UNII-2A ^{Note}	54	5270	43.92	43.99	43.26	38.145	38.128
	62	5310	43.26	44.23		38.175	38.240
UNII-2C	102	5510	43.80	44.13	43.30		
	110	5550	43.38	43.47			
	134	5670	44.45	43.30			

Note. As a result of 99% bandwidth test, the bandwidth of UNII-1 does not interfere with UNII-2A.

9.2.8. 802.11be EHT80

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz](Note)	
			ANT1	ANT2		ANT1	ANT2
UNII-1 ^{Note}	42	5210	88.28	88.48	88.28	77.932	78.004
UNII-2A ^{Note}	58	5290	88.47	88.21	88.21	77.762	77.692
UNII-2C	106	5530	86.70	88.50	86.29		
	122	5610	88.56	86.29			

Note. As a result of 99% bandwidth test, the bandwidth of UNII-1 does not interfere with UNII-2A.

9.2.9. 802.11be EHT160

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz](Note)	
			ANT1	ANT2		ANT1	ANT2
UNII-1&2A	50	5250	174.20	176.00	174.20		
UNII-2C	114	5570	176.40	172.20	172.20		

9.2.10. STRADDLE CHANNEL

Mode	Channel	Center Freq. [MHz]	26 dB BW [MHz]			
			ANT1		ANT2	
			UNII-2C	UNII-3	UNII-2C	UNII-3
802.11a	Straddle	5720	16.72	6.16	16.04	6.36
802.11n HT20	Straddle	5720	16.64	6.76	16.24	6.20
802.11n HT40	Straddle	5710	38.28	7.72	36.60	6.20
802.11ac VHT80	Straddle	5690	81.40	10.44	80.28	9.96
802.11be EHT20(SU)	Straddle	5720	17.08	6.56	16.44	6.48
802.11be EHT40(SU)	Straddle	5710	37.08	7.16	37.00	6.60
802.11be EHT80(SU)	Straddle	5690	78.36	10.12	78.52	9.00

9.2.11. 802.11be EHT20(RU)

Band Mode	Center Freq. [MHz]	Tones	RU offset	26 dB BW [MHz]		99% BW [MHz]	
				ANT1	ANT2	ANT1	ANT2
UNII-1 ^{Note}	5180	106T	53	21.16	20.47	18.297	18.346
			54	21.66	20.85	18.423	18.244
	5200		53	21.21	20.78	18.209	17.941
			54	21.80	21.01	18.402	18.312
	5240		53	21.16	20.79	18.358	18.330
			54	21.85	21.05	18.415	18.399
UNII-2A ^{Note}	5260	106T	53	21.28	20.95	18.291	18.309
			54	21.29	21.21	18.394	18.303
	5300		53	21.06	20.51	18.351	18.293
			54	21.67	21.14	18.332	18.328
	5320		53	21.14	20.54	18.280	18.293
			54	21.70	21.19	18.387	18.193
UNII-2C	5500	106T	53	20.68	20.87		
			54	21.81	21.28		
	5580		53	20.90	20.84		
			54	21.48	21.02		
	5700		53	21.12	20.81		
			54	21.81	21.07		

Note. As a result of 99% bandwidth test, the bandwidth of UNII-1 does not interfere with UNII-2A.

9.2.12. 802.11be EHT40(RU)

Band	Center Freq. [MHz]	Tones	RU offset	26 dB BW [MHz]		99% BW [MHz]	
				ANT1	ANT2	ANT1	ANT2
UNII-1 ^{Note}	5190	106T	53	21.97	26.82	18.049	18.345
			54	24.13	22.98	19.143	18.780
			56	28.92	25.70	18.439	18.075
	5230		53	24.04	27.17	18.036	18.290
			54	24.30	23.22	19.136	18.259
			56	27.51	25.79	18.387	18.105
UNII-2A ^{Note}	5270	106T	53	22.49	27.39	18.120	18.351
			54	24.84	22.83	19.339	18.659
			56	26.32	21.46	18.418	18.087
	5310		53	24.02	26.89	17.918	18.409
			54	24.41	23.51	19.256	18.917
			56	27.49	25.26	18.518	18.092
UNII-2C	5510	106T	53	22.51	27.76		
			54	24.49	23.14		
			56	26.17	26.00		
	5550		53	22.53	27.69		
			54	25.28	23.41		
			56	27.51	25.96		
	5670		53	21.95	23.02		
			54	23.89	23.11		
			56	29.04	24.26		

Note. As a result of 99% bandwidth test, the bandwidth of UNII-1 does not interfere with UNII-2A.

9.2.13. 802.11be EHT80(RU)

Band	Center Freq. [MHz]	Tones	RU offset	26 dB BW [MHz]		99% BW [MHz]	
				ANT1	ANT2	ANT1	ANT2
UNII-1 ^{Note}	5210	106T	53	30.29	30.82	22.453	19.708
			54	33.73	35.75	24.679	25.366
			56	33.08	29.95	23.362	23.174
UNII-2A ^{Note}	5290	106T	53	30.90	31.02	21.741	21.639
			54	34.18	36.40	23.297	24.968
			56	33.50	31.44	23.354	23.106
UNII-2C	5530	106T	53	30.54	31.54		
			54	34.26	36.92		
			56	33.05	30.57		
	5610	106T	53	30.16	29.46		
			54	33.54	36.28		
			56	32.32	30.85		

Note. As a result of 99% bandwidth test, the bandwidth of UNII-1 does not interfere with UNII-2A.

9.2.14. 802.11be EHT160(RU)

Band	Center Freq. [MHz]	Tones	RU offset	26 dB BW [MHz]		99% BW [MHz]	
				ANT1	ANT2	ANT1	ANT2
UNII-1&2A	5250	106T	53 L	36.28	42.53	27.437	24.115
			53 U	36.77	38.04	26.160	27.496
			60 U	44.05	44.78	28.789	25.987
UNII-2C	5570	106T	53 L	40.48	43.68		
			53 U	34.13	37.22		
			60 U	44.51	43.66		

9.2.15. 802.11be STRADDLE CHANNEL(RU)

Band	Mode	Center Freq. [MHz]	Tones	RU offset	26 dB BW [MHz]			
					ANT1		ANT2	
					UNII-2C	UNII-3	UNII-2C	UNII-3
Straddle Channel	EHT20	5720	26T	6	14.44	4.00	14.16	4.08
	EHT40	5710		15	14.60	4.20	14.52	4.60
	EHT80	5690		34	21.40	5.48	18.36	5.48

10. ANTENNA PORT TEST RESULTS

10.1. 6 dB BANDWIDTH

LIMITS

FCC §15.407

The minimum 6 dB bandwidth shall be at least 500 kHz.

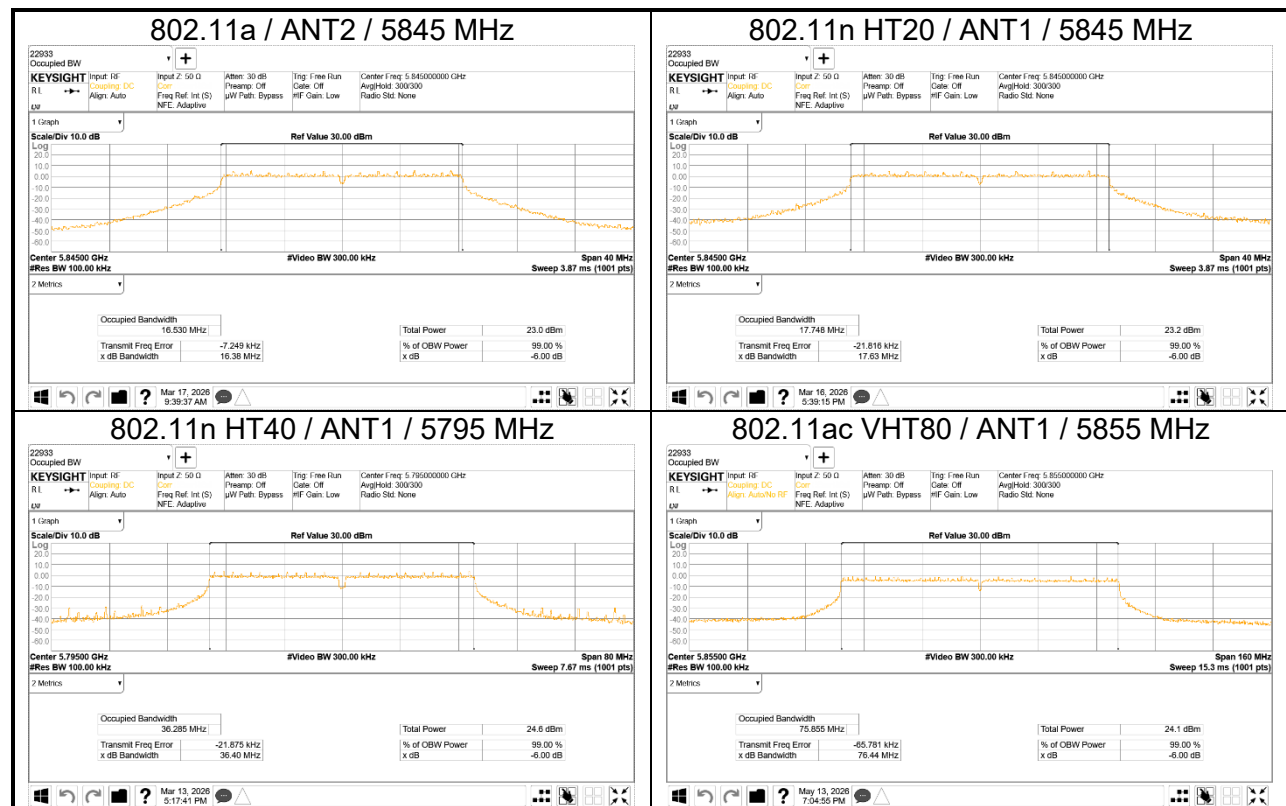
TEST PROCEDURE

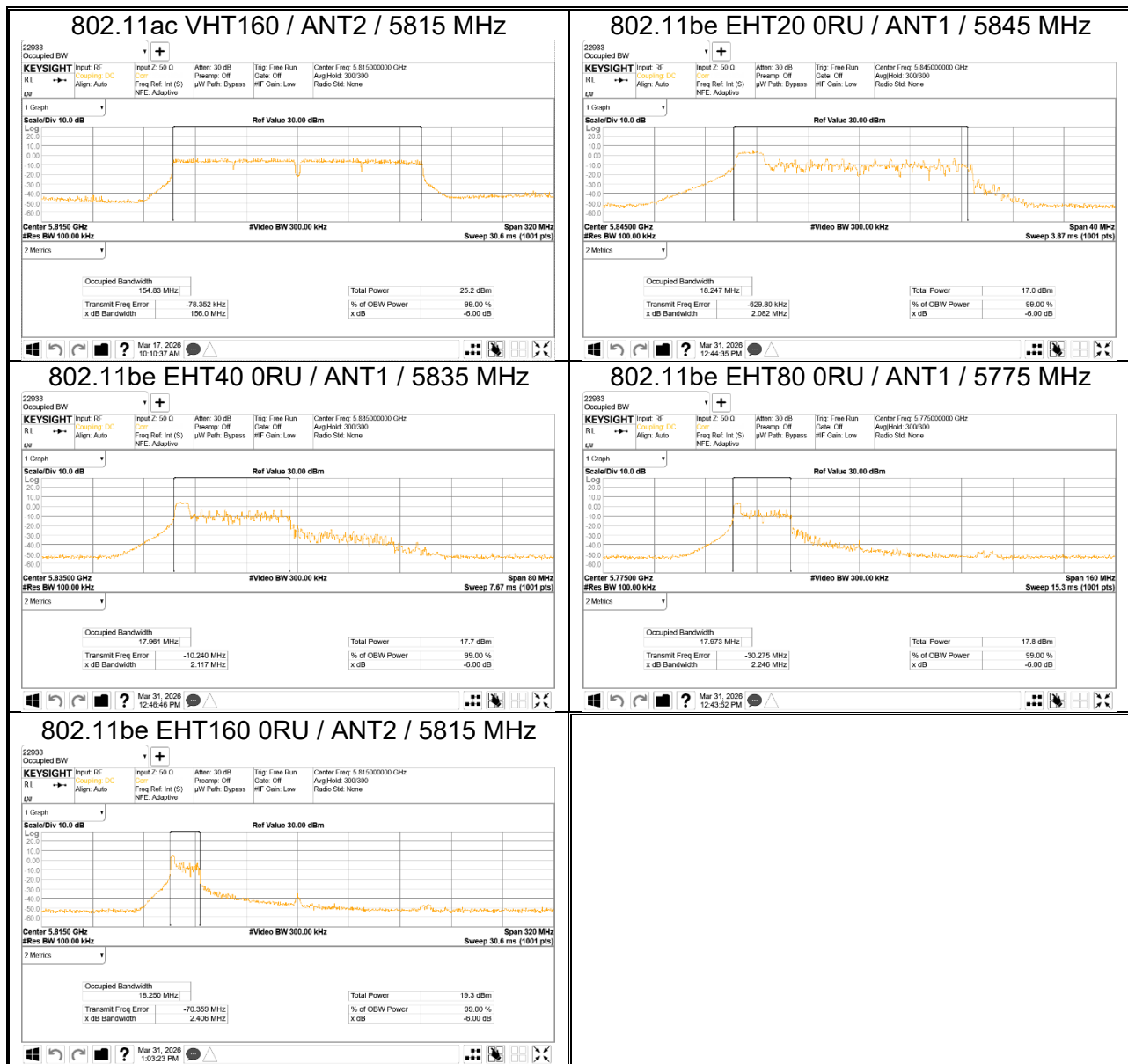
Reference to 789033 D02 General UNII Test Procedures New Rules v02r01: The transmitter output is connected to a spectrum analyzer with the RBW set to 100kHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

RESULTS

- Please refer to the next page

WORST CASE TEST PLOTS





10.1.1. UNII-3 & 4 BAND

Mode	Channel	Center Freq. [MHz]	6 dB BW [MHz]		Worst	Minimum Limit [MHz]
			ANT1	ANT2		
802.11a	149	5745	16.39	16.40	16.38	0.5
	157	5785	16.40	16.42		
	165	5825	16.39	16.40		
	169	5845	16.39	16.38		
	173	5865	16.39	16.39		
	177	5885	16.39	16.41		
802.11n HT20	149	5745	17.64	17.66	17.63	
	157	5785	17.64	17.63		
	165	5825	17.64	17.64		
	169	5845	17.63	17.65		
	173	5865	17.63	17.65		
	177	5885	17.65	17.66		
802.11n HT40	151	5755	36.48	36.46	36.40	
	159	5795	36.40	36.43		
	167	5835	36.41	36.42		
	175	5875	36.46	36.45		
802.11ac VHT80	155	5775	76.49	76.50	76.44	
	171	5855	76.44	76.47		
802.11ac VHT160	163	5815	156.20	156.00	156.00	
802.11be EHT20(SU)	149	5745	19.09	19.05	19.04	
	157	5785	19.15	19.04		
	165	5825	19.17	19.07		
	169	5845	19.08	19.04		
	173	5865	19.07	19.06		
	177	5885	19.12	19.05		
802.11be EHT40(SU)	151	5755	38.22	38.38	38.14	
	159	5795	38.20	38.14		
	167	5835	38.31	38.17		
	175	5875	38.30	38.16		
802.11be EHT(SU)	155	5775	78.32	78.23	78.21	
	171	5855	78.21	78.34		
802.11be EHT160(SU)	163	5815	157.60	157.70	157.60	

10.1.2. UNII-3 & 4 BAND(RU)

Mode	Channel	Center Freq. [MHz]	Tones	RU offset	6 dB BW [MHz]		Minimum Limit [MHz]
					ANT1	ANT2	
EHT20	149	5745	26T	0	2.123	2.151	0.5
	157	5785			2.111	2.161	
	165	5825			2.116	2.100	
	169	5845			2.082	2.124	
	173	5865			2.122	2.131	
	177	5885			2.120	2.098	
	Minimum 6dB Bandwidth				2.082		
EHT40	151	5755	26T	0	2.145	2.158	
	159	5795			2.133	2.160	
	167	5835			2.117	2.163	
	175	5875			2.124	2.133	
	Minimum 6dB Bandwidth				2.117		
EHT80	155	5775	26T	0	2.246	2.260	
	171	5855			2.257	2.273	
	Minimum 6dB Bandwidth				2.246		
EHT160	163	5815	26T	0	2.418	2.406	
	Minimum 6dB Bandwidth				2.406		

10.2. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a)(1)(iv), (a)(2), (a)(3)(i), (a)(3)(iii)

FCC

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm. Client devices operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 30 dBm.

TEST PROCEDURE

KDB 789033 Method PM is used for output power. Duty correction factor has already been applied to the power meter and the average power value is measured.

KDB 789033 Method SA-2 is used for PSD. RBW set to 1MHz(500kHz for the band 5.725-5.85 GHz, the VBW $\geq 3 \times$ RBW, RMS detector and trace averaging).

Straddle Channel(UNII-2C&3)

KDB 789033 Method PM is used for output power of straddle channel.
(verification that both limit of UNII-2C and UNII-3 power are satisfied)

KDB 789033 Method SA-2 is used for PSD of straddle channel. RBW set to 1MHz, VBW $\geq 3 \times$ RBW, RMS detector and trace averaging. Peak marker value of the spectrum is used for PSD. Considering the PSD's RBW setting and test limit, the UNII-2C measurement method (RBW 1MHz) covers UNII-3 (RBW 500kHz).

Straddle Channel(UNII-3&4)

KDB 789033 Method PM is used for total power of straddle channel.
(verification that both limit of UNII-3 and UNII-4 power & e.i.r.p. are satisfied)

KDB 789033 Method SA-2 is used for PSD of straddle channel. RBW set to 1MHz, VBW $\geq 3 \times$ RBW, RMS detector and trace averaging. Peak marker value of the spectrum is used for PSD. Considering the PSD's RBW setting and test limit, the UNII-4 measurement method (RBW 1MHz) covers UNII-3 (RBW 500kHz).

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]	ANT1 Gain [dBi]	ANT2 Gain [dBi]	Correlated Chains Directional Gain [dBi]
UNII 1 5150 - 5250	-7.19	-5.58	-3.34
UNII 2A 5250 - 5350	-6.09	-3.14	-1.48
UNII 2C 5470 - 5725	-7.78	-4.93	-3.23
UNII 3 5725 - 5850	-8.42	-4.34	-3.13
UNII 4 5850 - 5925	-6.58	-3.83	-2.09

Note. Since the correlated gain does not exceed 6dBi, bands except for UNII-4 do not consider the antenna gain.

OUTPUT POWER AND PSD CALCULATION FORMULA

For OUTPUT POWER :

Average Power(dBm)
= Meas Power(dBm) + DCCF(dB)

MIMO total Corr'd power(dBm)(conducted)
= Ant1 Average Power + Ant2 Average Power
= $10 \cdot \log(10^{\text{ANT1}/10} + 10^{\text{ANT2}/10})$

MIMO total Corr'd power(dBm)(e.i.r.p.) (in case of UNII-4: added directional gain)
= Ant1 Average Power + Ant2 Average Power + Directional Gain(dBi)
= $10 \cdot \log(10^{\text{ANT1}/10} + 10^{\text{ANT2}/10}) + \text{Directional Gain(dBi)}$

For PSD :

MIMO total Corr'd PSD(conducted)
= ANT1 Meas PSD + Ant2 Meas PSD + DCCF(dB)
= $10 \cdot \log(10^{\text{ANT1 PSD}/10} + 10^{\text{ANT2 PSD}/10}) + \text{DCCF(dB)}$

MIMO total Corr'd PSD(e.i.r.p.) (in case of UNII-4: added directional gain)
= ANT1 Meas PSD + Ant2 Meas PSD + DCCF(dB) + Directional Gain(dBi)
= $10 \cdot \log(10^{\text{ANT1 PSD}/10} + 10^{\text{ANT2 PSD}/10}) + \text{DCCF(dB)} + \text{Directional Gain(dBi)}$

10.2.1. 802.11a MODE

Output Power Results

Band	Channel	Center Freq. [MHz]	Average Power [dBm]		Corr'd Conducted Power [dBm]	Conducted Power Limit [dBm]	Direct. Gain [dBi]	e.i.r.p [dBm]	e.i.r.p Limit [dBm]
			ANT1	ANT2					
UNII-1	36	5180	16.81	17.65	20.26	23.98	-3.34	16.92	N/A
	40	5200	17.03	17.27	20.16		-3.34	16.82	
	48	5240	16.93	16.87	19.91		-3.34	16.57	
UNII-2A	52	5260	16.87	16.99	19.94	23.98	-1.48	18.46	N/A
	60	5300	16.62	16.87	19.76		-1.48	18.28	
	64	5320	16.55	16.86	19.72		-1.48	18.24	
UNII-2C	100	5500	17.14	17.14	20.15	23.98	-3.23	16.92	N/A
	116	5580	16.99	16.92	19.97		-3.23	16.74	
	140	5700	16.72	16.97	19.86		-3.23	16.63	
UNII-2C&3	144 Straddle	5720	16.67	16.88	19.79	23.98 or 30.00	-3.23	16.56	N/A or N/A
UNII-3	149	5745	16.75	16.82	19.80	30.00	-3.13	16.67	N/A
	157	5785	16.83	16.59	19.72		-3.13	16.59	
	165	5825	16.78	16.62	19.71		-3.13	16.58	
UNII-3&4	169 Straddle	5845	16.78	16.53	19.67	30.00	-3.13	16.54	N/A
		5845	16.78	16.53	19.67	N/A	-2.09	17.58	30.00
UNII-4	173	5865	16.84	16.56	19.71	N/A	-2.09	17.62	30.00
	177	5885	17.25	16.95	20.11		-2.09	18.02	

PSD Results

Band	Channel	Center Freq. [MHz]	Meas PSD [dBm/MHz]		DCCF [dB]	Corr'd Conducted PSD [dBm/MHz]	Conducted PSD Limit [dBm/MHz]	Direct. Gain [dBi]	e.i.r.p PSD [dBm/MHz]	e.i.r.p PSD Limit [dBm/MHz]
			ANT1	ANT2						
UNII-1	36	5180	4.834	6.244	0.49	9.10	11.00	-3.34	5.757	N/A
	40	5200	5.274	5.666	0.49	8.98		-3.34	5.635	
	48	5240	5.094	5.128	0.49	8.61		-3.34	5.272	
UNII-2A	52	5260	5.167	5.656	0.49	8.92	11.00	-1.48	7.439	N/A
	60	5300	4.961	5.522	0.49	8.75		-1.48	7.271	
	64	5320	4.805	5.513	0.49	8.67		-1.48	7.194	
UNII-2C	100	5500	5.329	5.513	0.49	8.92	11.00	-3.23	5.693	N/A
	116	5580	5.127	5.521	0.49	8.83		-3.23	5.599	
	140	5700	4.966	5.542	0.49	8.76		-3.23	5.534	
UNII-2C&3	144 Straddle	5720	4.819	5.238	0.49	8.53	11.00 or 30.00/500kHz	-3.23	5.304	N/A
UNII-3	149	5745	2.082	2.246	0.49	5.67	30.00/500kHz	-3.13	2.535	N/A
	157	5785	2.117	2.102	0.49	5.61		-3.13	2.480	
	165	5825	2.122	2.377	0.49	5.75		-3.13	2.622	
UNII-3&4	169 Straddle	5845	5.192	4.982	0.49	8.59	30.00/500kHz	-3.13	5.459	N/A
		5845	5.192	4.982	0.49	8.59	N/A	-2.09	6.499	14.00
UNII-4	173	5865	5.126	4.854	0.49	8.49	N/A	-2.09	6.403	14.00
	177	5885	5.483	5.358	0.49	8.92		-2.09	6.832	

10.2.2. 802.11n HT20 MODE

Output Power Results

Band	Channel	Center Freq. [MHz]	Average Power [dBm]		Corr'd Conducted Power [dBm]	Conducted Power Limit [dBm]	Direct. Gain [dBi]	e.i.r.p [dBm]	e.i.r.p Limit [dBm]
			ANT1	ANT2					
UNII-1	36	5180	16.33	17.40	19.91	23.98	-3.34	16.57	N/A
	40	5200	16.57	16.72	19.66		-3.34	16.32	
	48	5240	16.97	16.82	19.91		-3.34	16.57	
UNII-2A	52	5260	16.92	17.05	20.00	23.98	-1.48	18.52	N/A
	60	5300	16.68	16.98	19.84		-1.48	18.36	
	64	5320	16.59	16.97	19.79		-1.48	18.31	
UNII-2C	100	5500	16.64	16.67	19.67	23.98	-3.23	16.44	N/A
	116	5580	17.03	17.02	20.04		-3.23	16.81	
	140	5700	16.78	17.00	19.90		-3.23	16.67	
UNII-2C&3	144 Straddle	5720	16.68	16.91	19.81	23.98 or 30.00	-3.23	16.58	N/A or N/A
UNII-3	149	5745	16.78	16.83	19.82	30.00	-3.13	16.69	N/A
	157	5785	16.86	16.59	19.74		-3.13	16.61	
	165	5825	16.79	16.67	19.74		-3.13	16.61	
UNII-3&4	169 Straddle	5845	16.84	16.53	19.70	30.00	-3.13	16.57	N/A
		5845	16.84	16.53	19.70	N/A	-2.09	17.61	30.00
UNII-4	173	5865	16.87	16.57	19.73	N/A	-2.09	17.64	30.00
	177	5885	16.76	16.52	19.65		-2.09	17.56	

PSD Results

Band	Channel	Center Freq. [MHz]	Meas PSD [dBm/MHz]		DCCF [dB]	Corr'd Conducted PSD [dBm/MHz]	Conducted PSD Limit [dBm/MHz]	Direct. Gain [dBi]	e.i.r.p PSD [dBm/MHz]	e.i.r.p PSD Limit [dBm/MHz]
			ANT1	ANT2						
UNII-1	36	5180	4.664	6.124	0.10	8.57	11.00	-3.34	5.229	N/A
	40	5200	4.818	5.275	0.10	8.17		-3.34	4.827	
	48	5240	5.185	5.439	0.10	8.43		-3.34	5.088	
UNII-2A	52	5260	5.178	5.706	0.10	8.56	11.00	-1.48	7.084	N/A
	60	5300	5.110	5.768	0.10	8.57		-1.48	7.085	
	64	5320	4.968	5.600	0.10	8.41		-1.48	6.930	
UNII-2C	100	5500	4.865	4.986	0.10	8.04	11.00	-3.23	4.810	N/A
	116	5580	5.250	5.516	0.10	8.50		-3.23	5.269	
	140	5700	5.187	5.420	0.10	8.42		-3.23	5.189	
UNII-2C&3	144 Straddle	5720	4.969	5.294	0.10	8.25	11.00 or 30.00/500kHz	-3.23	5.019	N/A
UNII-3	149	5745	2.341	2.212	0.10	5.39	30.00/500kHz	-3.13	2.261	N/A
	157	5785	2.412	2.165	0.10	5.40		-3.13	2.274	
	165	5825	2.403	2.293	0.10	5.46		-3.13	2.332	
UNII-3&4	169 Straddle	5845	4.896	4.959	0.10	8.04	30.00/500kHz	-3.13	4.912	N/A
		5845	4.896	4.959	0.10	8.04	N/A	-2.09	5.952	14.00
UNII-4	173	5865	5.004	4.933	0.10	8.08	N/A	-2.09	5.993	14.00
	177	5885	4.830	4.907	0.10	7.98		-2.09	5.893	

10.2.3. 802.11n HT40 MODE

Output Power Results

Band	Channel	Center Freq. [MHz]	Average Power [dBm]		Corr'd Conducted Power [dBm]	Conducted Power Limit [dBm]	Direct. Gain [dBi]	e.i.r.p [dBm]	e.i.r.p Limit [dBm]
			ANT1	ANT2					
UNII-1	38	5190	14.15	13.86	17.02	23.98	-3.34	13.68	N/A
	46	5230	16.84	17.20	20.03		-3.34	16.69	
UNII-2A	54	5270	16.91	17.13	20.03	23.98	-1.48	18.55	N/A
	62	5310	14.05	14.15	17.11		-1.48	15.63	
UNII-2C	102	5510	13.60	12.81	16.23	23.98	-3.23	13.00	N/A
	110	5550	17.20	17.00	20.11		-3.23	16.88	
	134	5670	14.54	14.41	17.49		-3.23	14.26	
UNII-2C&3	142 Straddle	5710	16.69	16.99	19.85	23.98 or 30.00	-3.23	16.62	N/A or N/A
UNII-3	151	5755	16.11	15.64	18.89	30.00	-3.13	15.76	N/A
	159	5795	17.41	17.06	20.25		-3.13	17.12	
UNII-3&4	167 Straddle	5835	17.39	17.08	20.25	30.00	-3.13	17.12	N/A
		5835	17.39	17.08	20.25	N/A	-2.09	18.16	30.00
UNII-4	175	5875	16.31	15.23	18.81	N/A	-2.09	16.72	30.00

PSD Results

Band	Channel	Center Freq. [MHz]	Meas PSD [dBm/MHz]		DCCF [dB]	Corr'd Conducted PSD [dBm/MHz]	Conducted PSD Limit [dBm/MHz]	Direct. Gain [dBi]	e.i.r.p PSD [dBm/MHz]	e.i.r.p PSD Limit [dBm/MHz]
			ANT1	ANT2						
UNII-1	38	5190	-0.630	-1.221	0.21	2.31	11.00	-3.34	-1.033	N/A
	46	5230	1.988	2.678	0.21	5.57		-3.34	2.229	
UNII-2A	54	5270	2.171	2.619	0.21	5.62	11.00	-1.48	4.143	N/A
	62	5310	-0.551	-0.468	0.21	2.71		-1.48	1.233	
UNII-2C	102	5510	-1.161	-1.993	0.21	1.67	11.00	-3.23	-1.565	N/A
	110	5550	2.672	2.323	0.21	5.72		-3.23	2.493	
	134	5670	-0.204	-0.422	0.21	2.91		-3.23	-0.319	
UNII-2C&3	142 Straddle	5710	2.012	2.567	0.21	5.52	11.00 or 30.00/500kHz	-3.23	2.291	N/A
UNII-3	151	5755	-1.515	-2.003	0.21	1.47	30.00/500kHz	-3.13	-1.660	N/A
	159	5795	-0.164	-0.315	0.21	2.98		-3.13	-0.147	
UNII-3&4	167 Straddle	5835	2.376	2.531	0.21	5.68	30.00/500kHz	-3.13	2.546	N/A
		5835	2.376	2.531	0.21	5.68	N/A	-2.09	3.586	14.00
UNII-4	175	5875	1.360	0.447	0.21	4.15	N/A	-2.09	2.060	14.00

10.2.4. 802.11ac VHT80 MODE

Output Power Results

Band	Channel	Center Freq. [MHz]	Average Power [dBm]		Corr'd Conducted Power [dBm]	Conducted Power Limit [dBm]	Direct. Gain [dBi]	e.i.r.p [dBm]	e.i.r.p Limit [dBm]
			ANT1	ANT2					
UNII-1	42	5210	15.72	16.13	18.94	23.98	-3.34	15.60	N/A
UNII-2A	58	5290	14.95	14.52	17.75	23.98	-1.48	16.27	N/A
UNII-2C	106	5530	16.73	16.68	19.72	23.98	-3.23	16.49	N/A
	122	5610	16.76	16.74	19.76		-3.23	16.53	
UNII-2C&3	168 Straddle	5690	16.89	17.18	20.05	23.98 or 30.00	-3.23	16.82	N/A or N/A
UNII-3	155	5775	16.91	16.79	19.86	30.00	-3.13	16.73	N/A
UNII-3&4	171	5855	16.82	16.69	19.77	30.00	-3.13	16.64	N/A
	Straddle	5855	16.55	15.73	19.17	N/A	-2.09	17.08	30.00

PSD Results

Band	Channel	Center Freq. [MHz]	Meas PSD [dBm/MHz]		DCCF [dB]	Corr'd Conducted PSD [dBm/MHz]	Conducted PSD Limit [dBm/MHz]	Direct. Gain [dBi]	e.i.r.p PSD [dBm/MHz]	e.i.r.p PSD Limit [dBm/MHz]
			ANT1	ANT2						
UNII-1	42	5210	-1.556	-0.480	0.26	2.28	11.00	-3.34	-1.058	N/A
UNII-2A	58	5290	-3.065	-2.853	0.26	0.31	11.00	-1.48	-1.171	N/A
UNII-2C	106	5530	-1.370	-1.356	0.26	1.90	11.00	-3.23	-1.326	N/A
	122	5610	-1.199	-1.285	0.26	2.03		-3.23	-1.205	
UNII-2C&3	168 Straddle	5690	-1.080	-0.888	0.26	2.28	11.00 or 30.00/500kHz	-3.23	-0.946	N/A
UNII-3	155	5775	-3.957	-4.127	0.26	-0.77	30.00/500kHz	-3.13	-3.904	N/A
UNII-3&4	171	5855	-1.389	-2.165	0.26	1.51	30.00/500kHz	-3.13	-1.623	N/A
	Straddle	5855	-1.389	-2.165	0.26	1.51	N/A	-2.09	-0.583	14.00

10.2.5. 802.11ac VHT160 MODE

Output Power Results

Band	Channel	Center Freq. [MHz]	Average Power [dBm]		Corr'd Conducted Power [dBm]	Conducted Power Limit [dBm]	Direct. Gain [dBi]	e.i.r.p [dBm]	e.i.r.p Limit [dBm]
			ANT1	ANT2					
UNII-1&2A	50	5250	16.97	17.09	20.04	23.98	-3.34	16.70	N/A
UNII-2C	114	5570	16.70	16.64	19.68	23.98	-3.23	16.45	N/A
UNII-3&4	163	5815	16.95	16.73	19.85	30.00	-3.13	16.72	N/A
	Straddle	5815	16.95	16.73	19.85	N/A	-2.09	17.76	30.00

PSD Results

Band	Channel	Center Freq. [MHz]	Meas PSD [dBm/MHz]		DCCF [dB]	Corr'd Conducted PSD [dBm/MHz]	Conducted PSD Limit [dBm/MHz]	Direct. Gain [dBi]	e.i.r.p PSD [dBm/MHz]	e.i.r.p PSD Limit [dBm/MHz]
			ANT1	ANT2						
UNII-1&2A	50	5250	-3.843	-3.587	0.26	-0.44	11.00	-3.34	-3.784	N/A
UNII-2C	114	5570	-4.516	-4.162	0.26	-1.07	11.00	-3.23	-4.296	N/A
UNII-3&4	163	5815	-4.296	-3.984	0.26	-0.87	30.00 _{/500kHz}	-3.13	-3.998	N/A
	Straddle	5815	-4.296	-3.984	0.26	-0.87	N/A	-2.09	-2.958	14.00

10.2.6. 802.11be EHT20 MODE

Output Power Results

Band	Channel	Center Freq. [MHz]	Tones	RU offset	Average Power [dBm]		Corr'd Conducted Power [dBm]	Conducted Power Limit [dBm]	Direct. Gain [dBi]	e.i.r.p [dBm]	e.i.r.p Limit [dBm]
					ANT1	ANT2					
UNII-1	36	5180	106T	53	14.47	15.38	17.96	23.98	-3.34	14.62	N/A
				54	14.46	15.36	17.94		-3.34	14.60	
			SU	-	15.11	16.12	18.65		-3.34	15.31	
	40	5200	106T	53	15.24	15.40	18.33		-3.34	14.99	
				54	15.26	15.37	18.33		-3.34	14.99	
			SU	-	16.77	17.01	19.90		-3.34	16.56	
	48	5240	106T	53	14.94	14.68	17.82		-3.34	14.48	
				54	14.97	14.71	17.85		-3.34	14.51	
			SU	-	17.18	17.20	20.20		-3.34	16.86	
UNII-2A	52	5260	106T	53	14.81	14.89	17.86	23.98	-1.48	16.38	N/A
				54	14.82	14.98	17.91		-1.48	16.43	
			SU	-	16.54	16.75	19.66		-1.48	18.18	
	60	5300	106T	53	14.64	14.92	17.79		-1.48	16.31	
				54	14.64	14.97	17.82		-1.48	16.34	
			SU	-	16.83	17.52	20.20		-1.48	18.72	
	64	5320	106T	53	15.16	15.41	18.30		-1.48	16.82	
				54	15.13	15.43	18.29		-1.48	16.81	
			SU	-	16.75	17.31	20.05		-1.48	18.57	
UNII-2C	100	5500	106T	53	15.33	15.12	18.24	23.98	-3.23	15.01	N/A
				54	15.29	15.13	18.22		-3.23	14.99	
			SU	-	16.85	16.93	19.90		-3.23	16.67	
	116	5580	106T	53	15.21	14.95	18.09		-3.23	14.86	
				54	15.13	15.00	18.08		-3.23	14.85	
			SU	-	16.78	16.80	19.80		-3.23	16.57	
	140	5700	106T	53	14.79	15.00	17.91		-3.23	14.68	
				54	14.79	14.97	17.89		-3.23	14.66	
			SU	-	16.99	17.20	20.11		-3.23	16.88	

Band	Channel	Center Freq. [MHz]	Tones	RU offset	Average Power [dBm]		Corr'd Conducted Power [dBm]	Conducted Power Limit [dBm]	Direct. Gain [dBi]	e.i.r.p [dBm]	e.i.r.p Limit [dBm]
					ANT1	ANT2					
UNII-2C&3	144 Straddle	5720	106T	53	14.79	15.04	17.93	23.98	-3.23	14.70	N/A
				54	14.80	14.89	17.86		-3.23	14.63	
			SU	-	16.90	17.20	20.06		-3.23	16.83	
UNII-3	149	5745	106T	53	14.98	14.80	17.90	30.00	-3.13	14.77	N/A
				54	15.03	14.85	17.95		-3.13	14.82	
			SU	-	16.98	17.19	20.10		-3.13	16.97	
	157	5785	106T	53	15.10	14.60	17.87		-3.13	14.74	
				54	15.10	14.65	17.89		-3.13	14.76	
			SU	-	17.08	16.89	20.00		-3.13	16.87	
	165	5825	106T	53	15.11	14.70	17.92		-3.13	14.79	
				54	15.11	14.58	17.86		-3.13	14.73	
			SU	-	17.05	16.91	19.99		-3.13	16.86	
				-	17.05	16.91	19.99		-3.13	16.86	
UNII-3&4	169 Straddle	5845	106T	53	15.17	14.69	17.95	30.00	-3.13	14.82	N/A
				54	15.10	14.58	17.86		-3.13	14.73	
			SU	-	17.05	16.80	19.94		-3.13	16.81	
		5845	106T	53	15.17	14.69	17.95	N/A	-2.09	15.86	30.00
				54	15.10	14.58	17.86		-2.09	15.77	
			SU	-	17.05	16.80	19.94		-2.09	17.85	
UNII-4	173	5865	106T	53	15.19	14.62	17.92	N/A	-2.09	15.83	30.00
				54	15.15	14.55	17.87		-2.09	15.78	
			SU	-	17.12	16.86	20.00		-2.09	17.91	
	177	5885	106T	53	15.48	15.05	18.28		-2.09	16.19	
				54	15.32	14.98	18.16		-2.09	16.07	
			SU	-	16.94	16.78	19.87		-2.09	17.78	
				-	16.94	16.78	19.87		-2.09	17.78	

PSD Results

Band	Channel	Center Freq. [MHz]	Tones	RU offset	Meas PSD [dBm/MHz]		DCCF [dB]	Corr'd Conducted PSD [dBm/MHz]	Conducted PSD Limit [dBm/MHz]	Direct. Gain [dBi]	e.i.r.p PSD [dBm/MHz]	e.i.r.p PSD Limit [dBm/MHz]
					ANT1	ANT2						
UNII-1	36	5180	106T	53	6.448	7.774	0.18	10.350	11.00	-3.34	7.010	N/A
				54	6.589	7.648	0.18	10.340		-3.34	7.000	
			SU	-	4.321	5.960	0.00	8.228		-3.34	4.888	
	40	5200	106T	53	6.792	7.073	0.18	10.124		-3.34	6.784	
				54	6.703	7.070	0.18	10.079		-3.34	6.739	
			SU	-	4.973	5.539	0.00	8.276		-3.34	4.936	
	48	5240	106T	53	7.184	6.925	0.18	10.245		-3.34	6.905	
				54	6.822	7.165	0.18	10.186		-3.34	6.846	
			SU	-	5.344	5.636	0.00	8.503		-3.34	5.163	
UNII-2A	52	5260	106T	53	6.725	7.222	0.18	10.170	11.00	-1.48	8.690	N/A
				54	6.825	7.376	0.18	10.298		-1.48	8.818	
			SU	-	4.703	5.348	0.00	8.048		-1.48	6.568	
	60	5300	106T	53	6.658	7.215	0.18	10.134		-1.48	8.654	
				54	6.899	7.414	0.18	10.353		-1.48	8.873	
			SU	-	5.157	6.302	0.00	8.777		-1.48	7.297	
	64	5320	106T	53	6.973	7.350	0.18	10.355		-1.48	8.875	
				54	6.865	7.342	0.18	10.299		-1.48	8.819	
			SU	-	5.203	6.028	0.00	8.645		-1.48	7.165	
UNII-2C	100	5500	106T	53	6.840	6.635	0.18	9.928	11.00	-3.23	6.698	N/A
				54	6.813	6.705	0.18	9.948		-3.23	6.718	
			SU	-	5.056	5.393	0.00	8.238		-3.23	5.008	
	116	5580	106T	53	6.698	6.654	0.18	9.865		-3.23	6.635	
				54	6.659	6.482	0.18	9.760		-3.23	6.530	
			SU	-	5.126	5.276	0.00	8.212		-3.23	4.982	
	140	5700	106T	53	6.134	6.761	0.18	9.648		-3.23	6.418	
				54	6.267	6.576	0.18	9.613		-3.23	6.383	
			SU	-	5.181	5.572	0.00	8.391		-3.23	5.161	
UNII-2C&3	144 Straddle	5720	106T	53	6.372	6.308	0.18	9.529	11.00 or 30.00/500kHz	-3.23	6.299	N/A
				54	6.228	6.359	0.18	9.483		-3.23	6.253	
			SU	-	3.679	3.556	0.00	6.628		-3.23	3.398	
UNII-3	149	5745	106T	53	3.742	3.683	0.18	6.902	30.00/500kHz	-3.13	3.772	N/A
				54	3.567	3.536	0.18	6.740		-3.13	3.610	
			SU	-	2.409	2.584	0.00	5.508		-3.13	2.378	
	157	5785	106T	53	3.854	3.484	0.18	6.862		-3.13	3.732	
				54	3.666	3.477	0.18	6.761		-3.13	3.631	
			SU	-	2.765	2.427	0.00	5.610		-3.13	2.480	
	165	5825	106T	53	3.959	3.465	0.18	6.908		-3.13	3.778	
				54	3.919	3.342	0.18	6.829		-3.13	3.699	
			SU	-	2.569	2.442	0.00	5.516		-3.13	2.386	
UNII-3&4	169 Straddle	5845	106T	53	6.680	6.432	0.18	9.747	30.00/500kHz	-3.13	6.617	N/A
				54	6.708	6.266	0.18	9.682		-3.13	6.552	
			SU	-	5.362	5.224	0.00	8.304		-3.13	5.174	
		5845	106T	53	6.680	6.432	0.18	9.747	N/A	-2.09	7.657	14.00
				54	6.708	6.266	0.18	9.682		-2.09	7.592	
			SU	-	5.362	5.224	0.00	8.304		-2.09	6.214	
UNII-4	173	5865	106T	53	6.633	6.384	0.18	9.699	N/A	-2.09	7.609	14.00
				54	6.460	6.195	0.18	9.518		-2.09	7.428	
			SU	-	5.281	5.215	0.00	8.258		-2.09	6.168	
	177	5885	106T	53	6.495	6.121	0.18	9.501		-2.09	7.411	
				54	6.156	6.000	0.18	9.268		-2.09	7.178	
			SU	-	5.111	5.127	0.00	8.129		-2.09	6.039	

10.2.7. 802.11be EHT40 MODE

Output Power Results

Band	Channel	Center Freq. [MHz]	Tones	RU offset	Average Power [dBm]		Corr'd Conducted Power [dBm]	Conducted Power Limit [dBm]	Direct. Gain [dBi]	e.i.r.p [dBm]	e.i.r.p Limit [dBm]
					ANT1	ANT2					
UNII-1	38	5190	106T	53	14.31	14.99	17.67	23.98	-3.34	14.33	N/A
				54	14.65	15.28	17.99		-3.34	14.65	
				56	14.96	15.59	18.30		-3.34	14.96	
			242T	61	15.26	15.21	18.25		-3.34	14.91	
				62	15.42	15.58	18.51		-3.34	15.17	
			SU	-	14.47	15.14	17.83		-3.34	14.49	
	46	5230	106T	53	14.53	14.92	17.74		-3.34	14.40	
				54	14.79	15.35	18.09		-3.34	14.75	
				56	14.64	15.12	17.90		-3.34	14.56	
			242T	61	16.40	16.88	19.66		-3.34	16.32	
				62	16.45	17.08	19.79		-3.34	16.45	
			SU	-	16.43	16.84	19.65		-3.34	16.31	
UNII-2A	54	5270	106T	53	14.63	14.66	17.66	23.98	-1.48	16.18	N/A
				54	14.87	15.16	18.03		-1.48	16.55	
				56	15.07	15.44	18.27		-1.48	16.79	
			242T	61	17.02	17.35	20.20		-1.48	18.72	
				62	16.96	17.58	20.29		-1.48	18.81	
			SU	-	16.98	17.22	20.11		-1.48	18.63	
	62	5310	106T	53	14.89	15.28	18.10		-1.48	16.62	
				54	14.66	15.13	17.91		-1.48	16.43	
				56	14.88	15.42	18.17		-1.48	16.69	
			242T	61	16.76	17.35	20.08		-1.48	18.60	
				62	16.73	17.57	20.18		-1.48	18.70	
			SU	-	14.29	14.69	17.50		-1.48	16.02	
UNII-2C	102	5510	106T	53	15.09	14.99	18.05	23.98	-3.23	14.82	N/A
				54	14.87	14.70	17.80		-3.23	14.57	
				56	15.19	14.88	18.05		-3.23	14.82	
			242T	61	16.78	16.84	19.82		-3.23	16.59	
				62	16.79	16.87	19.84		-3.23	16.61	
			SU	-	14.16	14.34	17.26		-3.23	14.03	
	110	5550	106T	53	15.16	14.81	18.00		-3.23	14.77	
				54	14.90	14.57	17.75		-3.23	14.52	
				56	15.14	14.74	17.95		-3.23	14.72	
			242T	61	16.81	16.71	19.77		-3.23	16.54	
				62	16.73	16.66	19.71		-3.23	16.48	
			SU	-	16.77	16.57	19.68		-3.23	16.45	
	134	5670	106T	53	14.75	14.94	17.86		-3.23	14.63	
				54	14.94	15.13	18.05		-3.23	14.82	
				56	15.15	15.39	18.28		-3.23	15.05	
			242T	61	16.91	17.41	20.18		-3.23	16.95	
				62	16.83	17.30	20.08		-3.23	16.85	
			SU	-	14.48	14.68	17.59		-3.23	14.36	

Band	Channel	Center Freq. [MHz]	Tones	RU offset	Average Power [dBm]		Corr'd Conducted Power [dBm]	Conducted Power Limit [dBm]	Direct. Gain [dBi]	e.i.r.p [dBm]	e.i.r.p Limit [dBm]
					ANT1	ANT2					
UNII-2C&3	142 Straddle	5710	106T	53	14.64	14.84	17.75	23.98	-3.23	14.52	N/A
				54	14.84	15.11	17.99		-3.23	14.76	
				56	15.07	15.23	18.16		-3.23	14.93	
			242T	61	16.90	17.30	20.11		-3.23	16.88	
				62	16.76	17.21	20.00		-3.23	16.77	
			SU	-	16.79	17.03	19.92		-3.23	16.69	
UNII-3	151	5755	106T	53	14.80	14.75	17.79	30.00	-3.13	14.66	N/A
				54	14.97	15.02	18.01		-3.13	14.88	
				56	15.15	15.16	18.17		-3.13	15.04	
			242T	61	16.98	17.17	20.09		-3.13	16.96	
				62	16.81	17.08	19.96		-3.13	16.83	
			SU	-	16.28	16.15	19.23		-3.13	16.10	
	159	5795	106T	53	14.88	14.49	17.70		-3.13	14.57	
				54	15.04	14.66	17.86		-3.13	14.73	
				56	15.15	14.85	18.01		-3.13	14.88	
			242T	61	16.94	16.88	19.92		-3.13	16.79	
				62	16.80	16.74	19.78		-3.13	16.65	
			SU	-	16.89	16.71	19.81		-3.13	16.68	
UNII-3&4	167 Straddle	5835	106T	53	15.36	15.18	18.28	30.00	-3.13	15.15	N/A
				54	15.06	14.73	17.91		-3.13	14.78	
				56	15.22	14.88	18.06		-3.13	14.93	
			242T	61	17.03	17.00	20.03		-3.13	16.90	
				62	16.94	16.79	19.88		-3.13	16.75	
			SU	-	16.91	16.77	19.85		-3.13	16.72	
		5835	106T	53	15.36	15.18	18.28	N/A	-2.09	16.19	30.00
				54	15.06	14.73	17.91		-2.09	15.82	
				56	15.22	14.88	18.06		-2.09	15.97	
			242T	61	17.03	17.00	20.03		-2.09	17.94	
				62	16.94	16.79	19.88		-2.09	17.79	
			SU	-	16.91	16.77	19.85		-2.09	17.76	
UNII-4	175	5875	106T	53	15.42	15.00	18.23	N/A	-2.09	16.14	30.00
				54	15.04	14.66	17.86		-2.09	15.77	
				56	15.14	14.67	17.92		-2.09	15.83	
			242T	61	16.99	16.83	19.92		-2.09	17.83	
				62	16.91	16.76	19.85		-2.09	17.76	
			SU	-	16.28	16.09	19.20		-2.09	17.11	

PSD Results

Band	Channel	Center Freq. [MHz]	Tones	RU offset	Meas PSD [dBm/MHz]		DCCF [dB]	Corr'd Conducted PSD [dBm/MHz]	Conducted PSD Limit [dBm/MHz]	Direct. Gain [dB]	e.i.r.p PSD [dBm/MHz]	e.i.r.p PSD Limit [dBm/MHz]
					ANT1	ANT2						
UNII-1	38	5190	106T	53	6.596	7.559	0.00	10.114	11.00	-3.34	6.774	N/A
				54	6.125	7.162	0.00	9.685		-3.34	6.345	
				56	6.673	7.493	0.00	10.113		-3.34	6.773	
			SU	-	2.028	2.765	0.00	5.422		-3.34	2.082	
	46	5230	106T	53	6.739	7.453	0.00	10.121		-3.34	6.781	
				54	6.231	7.022	0.00	9.655		-3.34	6.315	
				56	6.748	7.756	0.00	10.291		-3.34	6.951	
			SU	-	1.828	2.690	0.00	5.291		-3.34	1.951	
UNII-2A	54	5270	106T	53	6.935	7.192	0.00	10.076	11.00	-1.48	8.596	N/A
				54	6.402	6.921	0.00	9.680		-1.48	8.200	
				56	6.946	7.502	0.00	10.243		-1.48	8.763	
			SU	-	2.539	3.021	0.00	5.797		-1.48	4.317	
	62	5310	106T	53	6.714	7.360	0.00	10.059		-1.48	8.579	
				54	6.350	6.984	0.00	9.689		-1.48	8.209	
				56	6.783	3.908	0.00	8.589		-1.48	7.109	
			SU	-	2.342	2.848	0.00	5.613		-1.48	4.133	
UNII-2C	102	5510	106T	53	6.808	6.850	0.00	9.839	11.00	-3.23	6.609	N/A
				54	6.379	6.167	0.00	9.285		-3.23	6.055	
				56	6.789	6.555	0.00	9.684		-3.23	6.454	
			SU	-	2.220	2.272	0.00	5.256		-3.23	2.026	
	110	5550	106T	53	6.953	6.551	0.00	9.767		-3.23	6.537	
				54	6.504	6.192	0.00	9.361		-3.23	6.131	
				56	7.132	6.674	0.00	9.919		-3.23	6.689	
			SU	-	2.160	2.194	0.00	5.187		-3.23	1.957	
	134	5670	106T	53	6.678	6.845	0.00	9.773		-3.23	6.543	
				54	5.990	6.215	0.00	9.114		-3.23	5.884	
				56	6.606	6.534	0.00	9.580		-3.23	6.350	
			SU	-	2.492	2.820	0.00	5.669		-3.23	2.439	
UNII-2C&3	142 Straddle	5710	106T	53	6.829	6.688	0.00	9.769	11.00 or 30.00/500kHz	-3.23	6.539	N/A
				54	7.094	6.922	0.00	10.019		-3.23	6.789	
				56	6.790	6.534	0.00	9.674		-3.23	6.444	
			SU	-	2.173	1.640	0.00	4.925		-3.23	1.695	
UNII-3	151	5755	106T	53	3.692	3.646	0.00	6.679	30.00/500kHz	-3.13	3.549	N/A
				54	3.202	3.006	0.00	6.115		-3.13	2.985	
				56	3.619	3.509	0.00	6.575		-3.13	3.445	
			SU	-	-0.409	-0.334	0.00	2.639		-3.13	-0.491	
	159	5795	106T	53	3.816	3.647	0.00	6.743		-3.13	3.613	
				54	3.265	2.878	0.00	6.086		-3.13	2.956	
				56	3.607	3.412	0.00	6.521		-3.13	3.391	
			SU	-	-0.425	-0.579	0.00	2.509		-3.13	-0.621	
UNII-3&4	167 Straddle	5835	106T	53	6.505	6.405	0.00	9.466	30.00/500kHz	-3.13	6.336	N/A
				54	5.784	5.804	0.00	8.804		-3.13	5.674	
				56	6.217	6.011	0.00	9.126		-3.13	5.996	
			SU	-	2.051	2.383	0.00	5.230		-3.13	2.100	
		5835	106T	53	6.505	6.405	0.00	9.466	N/A	-2.09	7.376	14.00
				54	5.784	5.804	0.00	8.804		-2.09	6.714	
				56	6.217	6.011	0.00	9.126		-2.09	7.036	
			SU	-	2.051	2.383	0.00	5.230		-2.09	3.140	
UNII-4	175	5875	106T	53	6.418	6.384	0.00	9.411	N/A	-2.09	7.321	14.00
				54	5.883	5.669	0.00	8.788		-2.09	6.698	
				56	6.178	5.953	0.00	9.077		-2.09	6.987	
			SU	-	2.343	2.337	0.00	5.350		-2.09	3.260	

10.2.8. 802.11be EHT80 MODE

Output Power Results

Band	Channel	Center Freq. [MHz]	Tones	RU offset	Average Power [dBm]		Corr'd Conducted Power [dBm]	Conducted Power Limit [dBm]	Direct. Gain [dBi]	e.i.r.p [dBm]	e.i.r.p Limit [dBm]
					ANT1	ANT2					
UNII-1	42	5210	106T	53	14.94	15.28	18.12	23.98	-3.34	14.78	N/A
				57	15.05	15.52	18.30		-3.34	14.96	
				60	14.64	15.19	17.93		-3.34	14.59	
			242T	61	14.63	15.20	17.93		-3.34	14.59	
				62	14.81	15.18	18.01		-3.34	14.67	
				64	14.77	15.71	18.28		-3.34	14.94	
			SU	-	16.00	16.41	19.22		-3.34	15.88	
UNII-2A	58	5290	106T	53	14.88	14.98	17.94	23.98	-1.48	16.46	N/A
				57	14.85	15.30	18.09		-1.48	16.61	
				60	14.86	15.41	18.15		-1.48	16.67	
			242T	61	16.82	17.02	19.93		-1.48	18.45	
				62	16.80	17.32	20.08		-1.48	18.60	
				64	16.74	17.54	20.17		-1.48	18.69	
			SU	-	14.90	14.48	17.71		-1.48	16.23	
UNII-2C	106	5530	106T	53	15.08	14.83	17.97	23.98	-3.23	14.74	N/A
				57	15.10	14.69	17.91		-3.23	14.68	
				60	15.06	14.68	17.88		-3.23	14.65	
			242T	61	16.75	16.71	19.74		-3.23	16.51	
				62	16.85	16.80	19.84		-3.23	16.61	
				64	16.75	16.76	19.77		-3.23	16.54	
			SU	-	16.73	16.69	19.72		-3.23	16.49	
	122	5610	106T	53	15.04	14.86	17.96		-3.23	14.73	
				57	15.09	14.80	17.96		-3.23	14.73	
				60	15.08	14.76	17.93		-3.23	14.70	
			242T	61	16.77	16.86	19.83		-3.23	16.60	
				62	16.84	17.01	19.94		-3.23	16.71	
				64	16.81	16.79	19.81		-3.23	16.58	
			SU	-	16.76	16.72	19.75		-3.23	16.52	

Band	Channel	Center Freq. [MHz]	Tones	RU offset	Average Power [dBm]		Corr'd Conducted Power [dBm]	Conducted Power Limit [dBm]	Direct. Gain [dBi]	e.i.r.p [dBm]	e.i.r.p Limit [dBm]
					ANT1	ANT2					
UNII-2C&3	138 Straddle	5690	106T	53	14.68	14.84	17.77	23.98	-3.23	14.54	N/A
				57	15.00	15.19	18.11		-3.23	14.88	
				60	15.02	15.21	18.13		-3.23	14.90	
			242T	61	16.97	17.22	20.11		-3.23	16.88	
				62	16.99	17.35	20.18		-3.23	16.95	
				64	16.79	17.18	20.00		-3.23	16.77	
			SU	-	16.86	17.16	20.02		-3.23	16.79	
UNII-3	155	5775	106T	53	14.99	14.58	17.80	30.00	-3.13	14.67	N/A
				57	15.19	15.06	18.14		-3.13	15.01	
				60	15.06	14.87	17.98		-3.13	14.85	
			242T	61	17.13	17.04	20.10		-3.13	16.97	
				62	17.13	17.13	20.14		-3.13	17.01	
				64	16.72	16.77	19.76		-3.13	16.63	
			SU	-	16.93	16.81	19.88		-3.13	16.75	
UNII-3&4	171 Straddle	5855	106T	53	15.42	15.10	18.27	30.00	-3.13	15.14	N/A
				57	15.26	14.92	18.10		-3.13	14.97	
				60	15.04	14.59	17.83		-3.13	14.70	
			242T	61	17.05	17.07	20.07		-3.13	16.94	
				62	17.06	16.98	20.03		-3.13	16.90	
				64	16.64	16.65	19.66		-3.13	16.53	
			SU	-	16.11	16.24	19.19		-3.13	16.06	
		5855	106T	53	15.42	15.10	18.27	N/A	-2.09	16.18	30.00
				57	15.26	14.92	18.10		-2.09	16.01	
				60	15.04	14.59	17.83		-2.09	15.74	
			242T	61	17.05	17.07	20.07		-2.09	17.98	
				62	17.06	16.98	20.03		-2.09	17.94	
				64	16.64	16.65	19.66		-2.09	17.57	
			SU	-	16.11	16.24	19.19		-2.09	17.10	

PSD Results

Band	Channel	Center Freq. [MHz]	Tones	RU offset	Meas PSD [dBm/MHz]		DCCF [dB]	Corr'd Conducted PSD [dBm/MHz]	Conducted PSD Limit [dBm/MHz]	Direct. Gain [dBi]	e.i.r.p PSD [dBm/MHz]	e.i.r.p PSD Limit [dBm/MHz]
					ANT1	ANT2						
UNII-1	42	5210	106T	53	6.338	7.102	0.00	9.747	11.00	-3.34	6.407	N/A
				57	6.506	7.371	0.00	9.970		-3.34	6.630	
				60	6.524	7.260	0.00	9.918		-3.34	6.578	
			SU	-	-1.173	-0.377	0.00	2.254		-3.34	-1.086	
UNII-2A	58	5290	106T	53	6.411	6.689	0.00	9.563	11.00	-1.48	8.083	N/A
				57	6.438	7.090	0.00	9.787		-1.48	8.307	
				60	6.471	7.132	0.00	9.824		-1.48	8.344	
			SU	-	-3.046	-2.920	0.00	0.028		-1.48	-1.452	
UNII-2C	106	5530	106T	53	6.553	6.160	0.00	9.371	11.00	-3.23	6.141	N/A
				57	6.627	6.192	0.00	9.425		-3.23	6.195	
				60	6.681	6.145	0.00	9.432		-3.23	6.202	
			SU	-	-1.222	-1.207	0.00	1.796		-3.23	-1.434	
	122	5610	106T	53	6.651	6.475	0.00	9.574		-3.23	6.344	
				57	6.729	6.367	0.00	9.562		-3.23	6.332	
				60	6.592	6.474	0.00	9.544		-3.23	6.314	
			SU	-	-0.910	-0.873	0.00	2.119		-3.23	-1.111	
UNII-2C&3	138 Straddle	5690	106T	53	6.516	6.214	0.00	9.378	11.00 or 30.00/500kHz	-3.23	6.148	N/A
				57	6.521	6.152	0.00	9.351		-3.23	6.121	
				60	6.260	5.852	0.00	9.071		-3.23	5.841	
			SU	-	-1.385	-1.742	0.00	1.450		-3.23	-1.780	
UNII-3	155	5775	106T	53	3.545	3.307	0.00	6.438	30.00/500kHz	-3.13	3.308	N/A
				57	3.242	3.214	0.00	6.238		-3.13	3.108	
				60	3.284	3.067	0.00	6.187		-3.13	3.057	
			SU	-	-3.724	-3.688	0.00	-0.696		-3.13	-3.826	
UNII-3&4	171 Straddle	5855	106T	53	6.240	6.258	0.00	9.259	30.00/500kHz	-3.13	6.129	N/A
				57	5.935	5.948	0.00	8.952		-3.13	5.822	
				60	5.720	5.645	0.00	8.693		-3.13	5.563	
			SU	-	-1.626	-1.593	0.00	1.401		-3.13	-1.729	
		5855	106T	53	6.240	6.258	0.00	9.259	N/A	-2.09	7.169	14.00
				57	5.935	5.948	0.00	8.952		-2.09	6.862	
				60	5.720	5.645	0.00	8.693		-2.09	6.603	
			SU	-	-1.626	-1.593	0.00	1.401		-2.09	-0.689	

10.2.9. 802.11be EHT160 MODE

Output Power Results

Band	Channel	Center Freq. [MHz]	Tones	RU offset	Average Power [dBm]		Corr'd Conducted Power [dBm]	Conducted Power Limit [dBm]	Direct. Gain [dBi]	e.i.r.p [dBm]	e.i.r.p Limit [dBm]
					ANT1	ANT2					
UNII-1&2A	50	5250	106T	53 L	14.99	14.87	17.94	23.98	-1.48	16.46	N/A
				53 U	15.20	15.38	18.30		-1.48	16.82	
				60 U	14.67	15.29	18.00		-1.48	16.52	
			242T	61 L	15.05	14.95	18.01		-1.48	16.53	
				61 U	15.26	15.51	18.40		-1.48	16.92	
				64 U	15.59	15.25	18.43		-1.48	16.95	
			SU	-	15.83	16.11	18.98		-1.48	17.50	
				-	15.83	16.11	18.98		-1.48	17.50	
UNII-2C	114	5570	106T	53 L	15.03	14.83	17.94	23.98	-3.23	14.71	N/A
				53 U	15.00	14.80	17.91		-3.23	14.68	
				60 U	15.04	14.54	17.81		-3.23	14.58	
			242T	61 L	16.94	16.88	19.92		-3.23	16.69	
				61 U	16.81	16.77	19.80		-3.23	16.57	
				64 U	17.00	16.76	19.89		-3.23	16.66	
			SU	-	16.13	15.49	18.83		-3.23	15.60	
				-	16.13	15.49	18.83		-3.23	15.60	
UNII-3&4	163 Straddle	5815	106T	53 L	15.39	14.80	18.12	30.00	-3.13	14.99	N/A
				53 U	14.85	14.50	17.69		-3.13	14.56	
				60 U	15.14	14.89	18.03		-3.13	14.90	
			242T	61 L	17.03	16.89	19.97		-3.13	16.84	
				61 U	16.93	16.81	19.88		-3.13	16.75	
				64 U	17.17	17.28	20.24		-3.13	17.11	
			SU	-	17.31	16.67	20.01		-3.13	16.88	
		5815	106T	53 L	15.39	14.80	18.12	N/A	-2.09	16.03	30.00
				53 U	14.85	14.50	17.69		-2.09	15.60	
				60 U	15.14	14.89	18.03		-2.09	15.94	
			242T	61 L	17.03	16.89	19.97		-2.09	17.88	
				61 U	16.93	16.81	19.88		-2.09	17.79	
				64 U	17.17	17.28	20.24		-2.09	18.15	
			SU	-	17.31	16.67	20.01		-2.09	17.92	

Note. LB=Lower band(Lower 996T),UB=Upper band(Upper 996T), L=Lower side, U=Upper side

PSD Results

Band	Channel	Center Freq. [MHz]	Tones	RU offset	Meas PSD [dBm/MHz]		DCCF [dB]	Corr'd Conducted PSD [dBm/MHz]	Conducted PSD Limit [dBm/MHz]	Direct. Gain [dBi]	e.i.r.p PSD [dBm/MHz]	e.i.r.p PSD Limit [dBm/MHz]
					ANT1	ANT2						
UNII-2A	50	5250	106T	53 L	6.313	6.577	0.00	9.457	11.00	-1.48	7.977	N/A
				53 U	6.647	7.029	0.00	9.852		-1.48	8.372	
				60 U	6.616	7.567	0.00	10.128		-1.48	8.648	
			SU	-	-3.639	-3.483	0.00	-0.550		-1.48	-2.030	
UNII-2C	114	5570	106T	53 L	6.233	6.384	0.00	9.319	11.00	-3.23	6.089	N/A
				53 U	6.595	6.465	0.00	9.541		-3.23	6.311	
				60 U	6.313	6.328	0.00	9.331		-3.23	6.101	
			SU	-	-3.498	-3.477	0.00	-0.477		-3.23	-3.707	
UNII-3&4	163 Straddle	5815	106T	53 L	6.328	6.077	0.00	9.215	30.00/500kHz	-3.13	6.085	N/A
				53 U	6.047	5.928	0.00	8.998		-3.13	5.868	
				60 U	5.485	5.318	0.00	8.413		-3.13	5.283	
			SU	-	-3.878	-3.855	0.00	-0.856		-3.13	-3.986	
		5815	106T	53 L	6.328	6.077	0.00	9.215	N/A	-2.09	7.125	14.00
				53 U	6.047	5.928	0.00	8.998		-2.09	6.908	
				60 U	5.485	5.318	0.00	8.413		-2.09	6.323	
			SU	-	-3.878	-3.855	0.00	-0.856		-2.09	-2.946	

Note. LB=Lower band(Lower 996T),UB=Upper band(Upper 996T), L=Lower side, U=Upper side

10.2.10. 802.11be Multi-RU(MRU) MODE

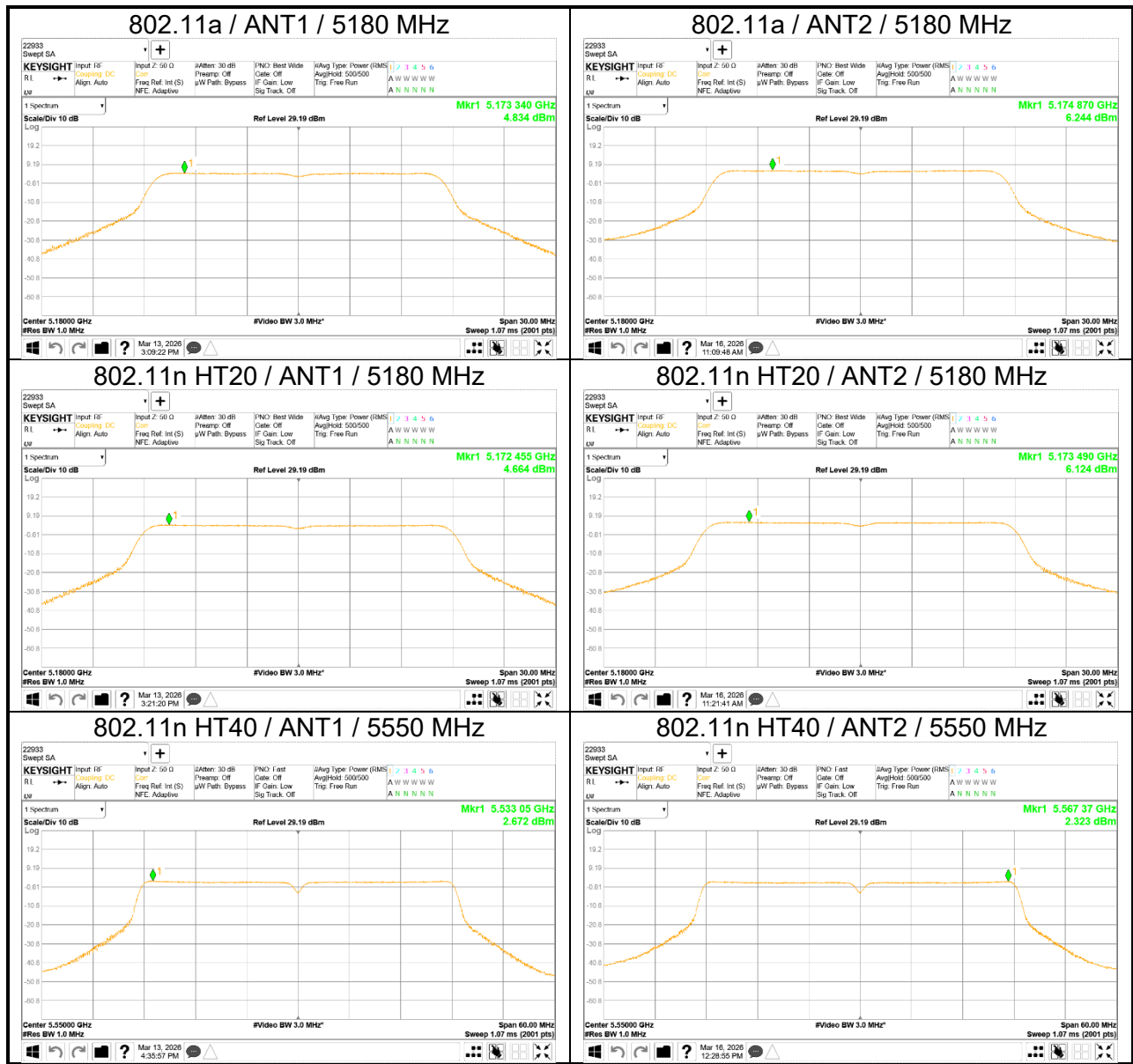
Output Power Results

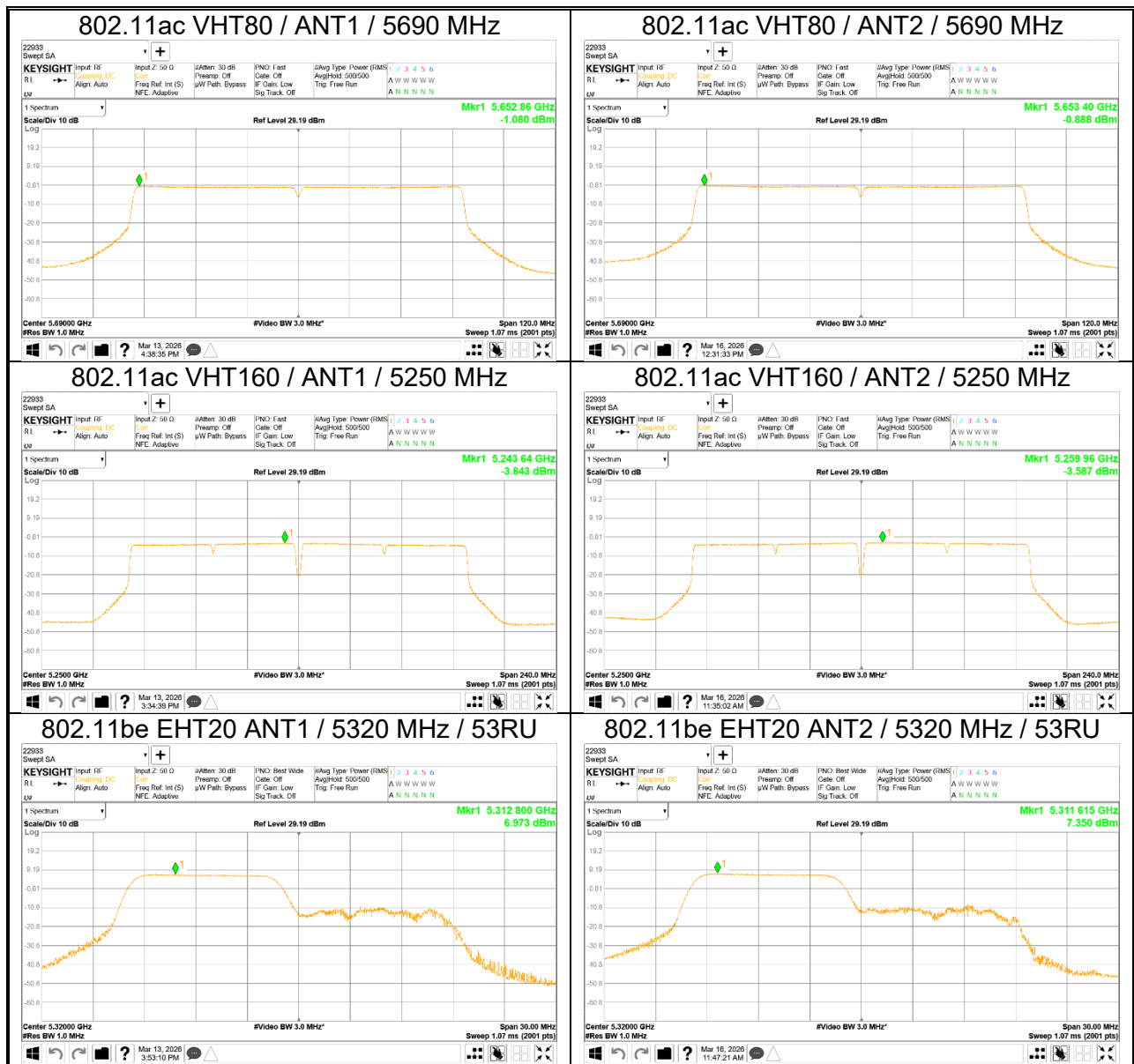
Band	Channel	Center Freq. [MHz]	Tones	RU offset	Average Power [dBm]		Corr'd Conducted Power [dBm]	Conducted Power Limit [dBm]	Direct. Gain [dBi]	e.i.r.p [dBm]	e.i.r.p Limit [dBm]
					ANT1	ANT2					
802.11be EHT20	64	5320	52+26T	70	12.040	12.050	15.055	23.98	-3.34	11.715	N/A
				71	11.970	11.990	14.990		-3.34	11.650	
				72	12.010	12.060	15.045		-3.34	11.705	
802.11be EHT80	42	5210	484+242T	93	16.770	17.270	20.037	23.98	-1.48	18.557	N/A
				91	16.870	17.250	20.074		-1.48	18.594	
				90	17.130	17.530	20.345		-1.48	18.865	
802.11be EHT160	50	5250	996+484T	1095	17.150	17.210	20.190	23.98	-3.23	16.960	N/A
				95	17.150	17.360	20.267		-3.23	17.037	
				94	16.670	16.860	19.776		-3.23	16.546	

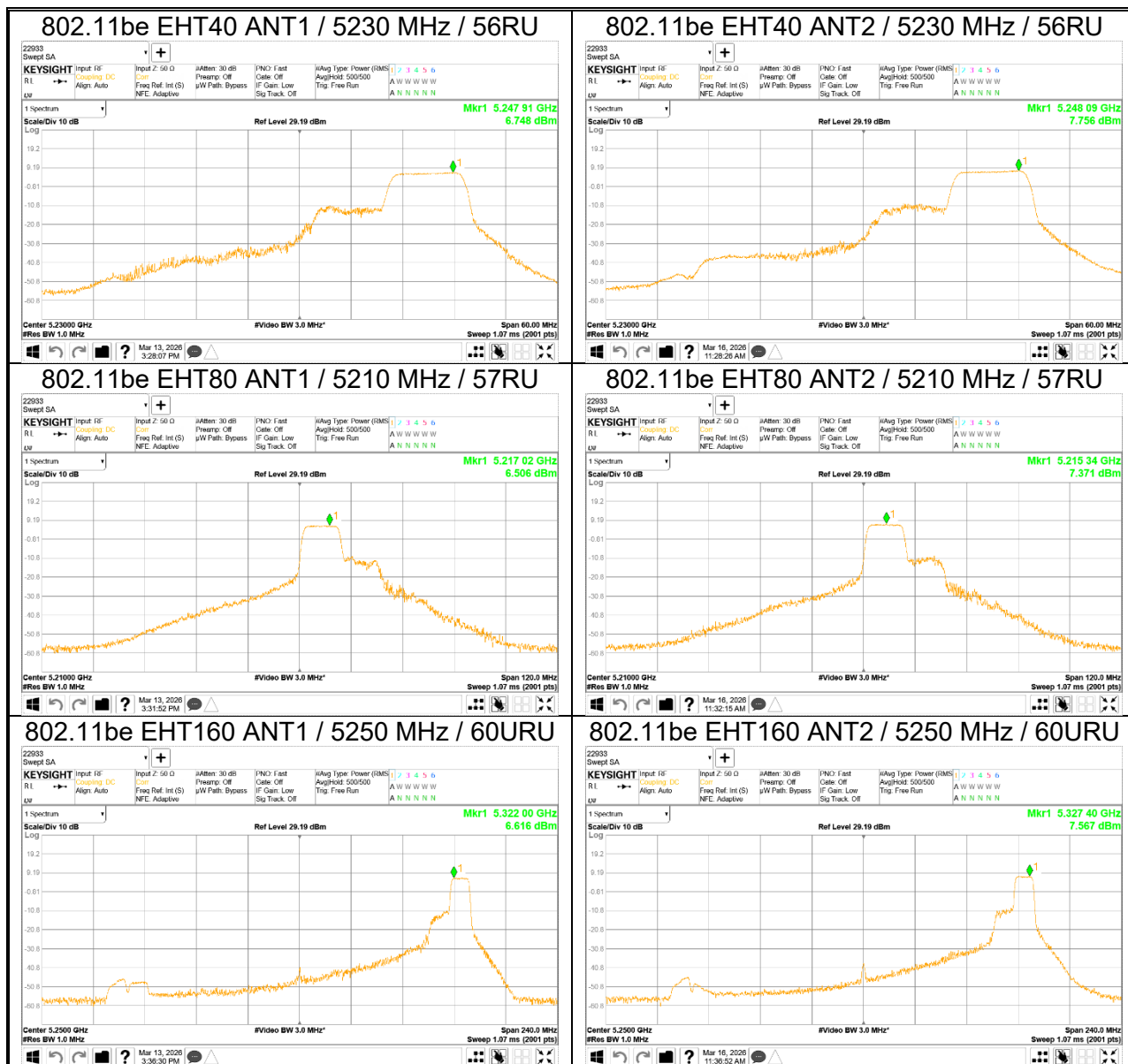
PSD Results

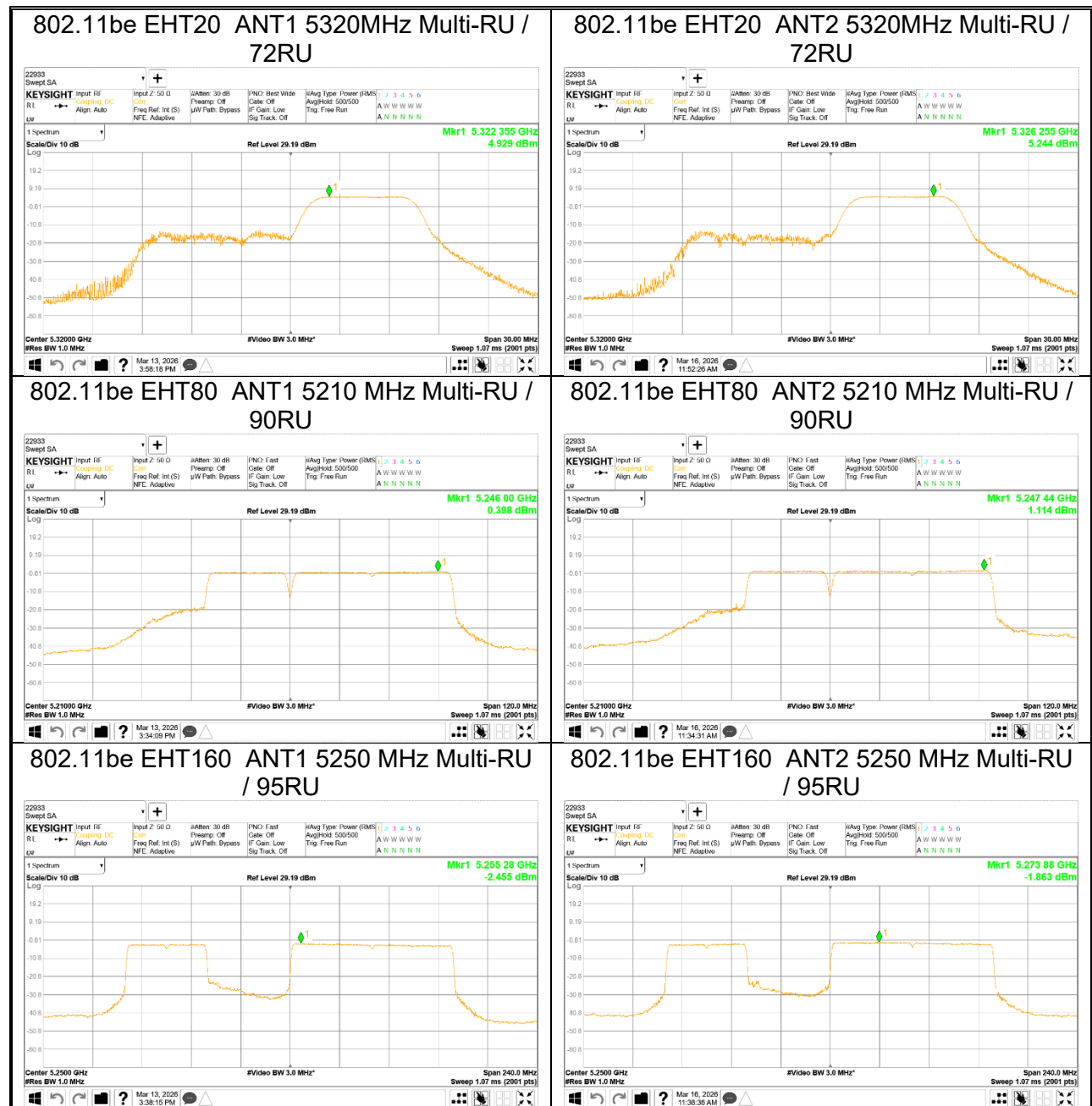
Band	Channel	Center Freq. [MHz]	Tones	RU offset	Meas PSD [dBm/MHz]		DCCF [dB]	Corr'd Conducted PSD [dBm/MHz]	Conducted PSD Limit [dBm/MHz]	Direct. Gain [dBi]	e.i.r.p PSD [dBm/MHz]	e.i.r.p PSD Limit [dBm/MHz]
					ANT1	ANT2						
802.11be EHT20	64	5320	52+26T	70	5.010	5.114	0.00	6.280	11.00	-3.34	2.940	N/A
				71	4.988	5.054	0.00	6.234		-3.34	2.894	
				72	4.929	5.244	0.00	6.380		-3.34	3.040	
802.11be EHT80	42	5210	484+242T	93	0.021	1.061	0.17	3.648	11.00	-1.48	2.168	N/A
				91	0.166	0.886	0.17	3.553		-1.48	2.073	
				90	0.398	1.114	0.17	3.678		-1.48	2.198	
802.11be EHT160	50	5250	996+484T	1095	-2.762	-2.054	0.18	2.212	11.00	-3.23	-1.018	N/A
				95	-2.455	-1.863	0.18	2.285		-3.23	-0.945	
				94	-3.093	-2.550	0.18	2.033		-3.23	-1.197	

10.2.11. PPSD PLOTS(WORST CASE)









11. TRANSMITTER ABOVE 1 GHz

LIMITS

FCC §15.205 and §15.209

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

FCC Part 15.205 (a) : Only spurious emissions are permitted in any of the frequency bands listed below :

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.1735 ~ 2.1905	12.51975 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~ 156.52525	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	13.36 ~ 13.41	156.7 ~ 156.9	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	16.42 ~ 16.423	162.0125 ~ 167.17	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.69475 ~ 16.69525	167.72 ~ 173.2	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.80425 ~ 16.80475	240 ~ 285	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	25.5 ~ 25.67	322 ~ 335.4	2655 ~ 2900		
8.291 ~ 8.294	37.5 ~ 38.25	399.90 ~ 410	3260 ~ 3267		
8.362 ~ 8.366	73 ~ 74.6	608 ~ 614	3332 ~ 3339		
8.37625 ~ 8.38675	74.8 ~ 75.2	960 ~ 1240	3345.8 ~ 3358		
			3600 ~ 4400		

▪ FCC Part 15.205(b) : The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

FCC §15.407 (b)

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating solely in the 5.725–5.850 GHz band:
 - (i) All emissions shall be limited to a level of -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.
- (5) For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:
 - (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz.
 - (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.
- (6) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (7) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (8) The provisions of §15.205 apply to intentional radiators operating under this section.
- (9) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

Note

- Limit translation to field strength level (FCC §15.407)

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2 = -27\text{dBm} + 95.2 = 68.2\text{dBuV/m}$$

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2 = -17\text{dBm} + 95.2 = 78.2\text{dBuV/m}$$

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 100 cm for above 1GHz. EUT is set 3 meters away from the receiving antenna and scan from 1m to 4m to find out the highest emission.

The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Reference to KDB 789033 D02 v02r01 UNII part G) 6) c) Method AD:

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements. In UNII-4, unwanted emissions outside of restricted bands are measured with an RMS detector.

Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

The spectrum from 1GHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

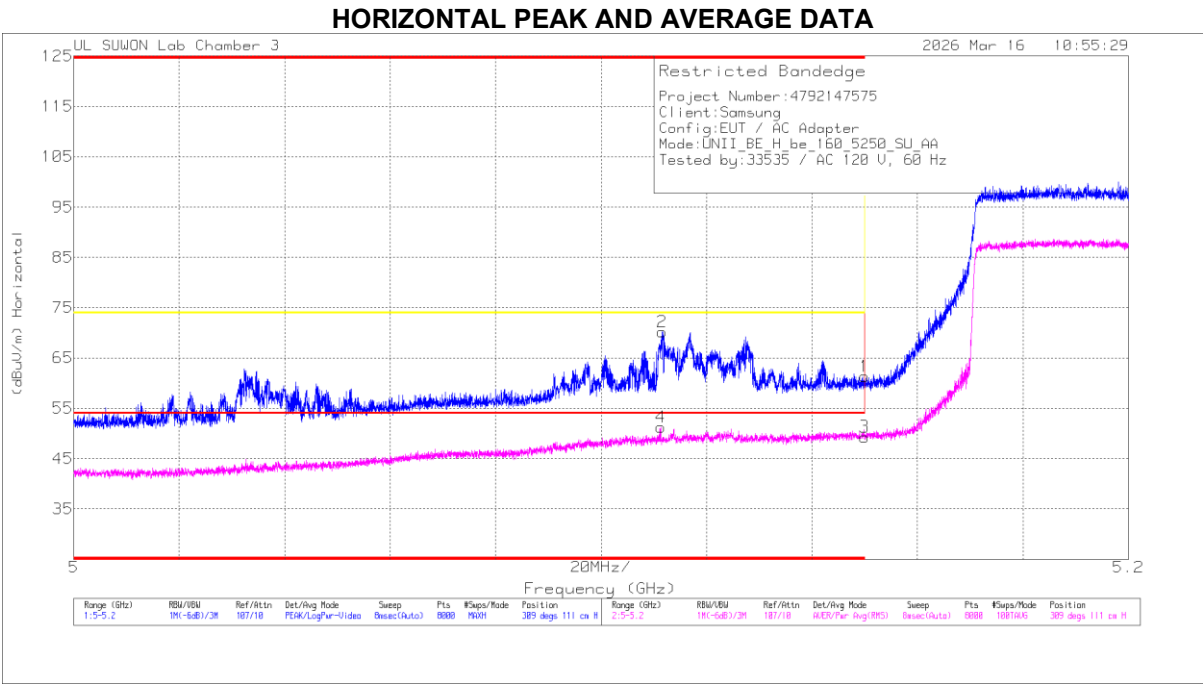
Note : Emission was pre-scanned from 9kHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).
Per FCC part 15.31(o), test results were not reported.

Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open area test site.

Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

11.1. TX ABOVE 1GHz 2Tx MODE IN THE 5.2GHz BAND

BANDEDGE (WORST CASE: 802.11be EHT160 / 5250 MHz / SU)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dBm)	10dB_Path Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Acimuth (Degs)	Height (cm)	Polarity
1	* 5.14999	47.54	Pk	34.4	-20.6	0	61.34	-	-	74	-12.66	309	111	H
2	* 5.11161	56.52	Pk	34.3	-20.6	0	70.22	-	-	74	-3.78	309	111	H
3	* 5.14999	35.52	RMS	34.4	-20.6	0	49.32	54	-4.68	-	-	309	111	H
4	* 5.11131	37.61	RMS	34.3	-20.6	0	51.31	54	-2.69	-	-	309	111	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

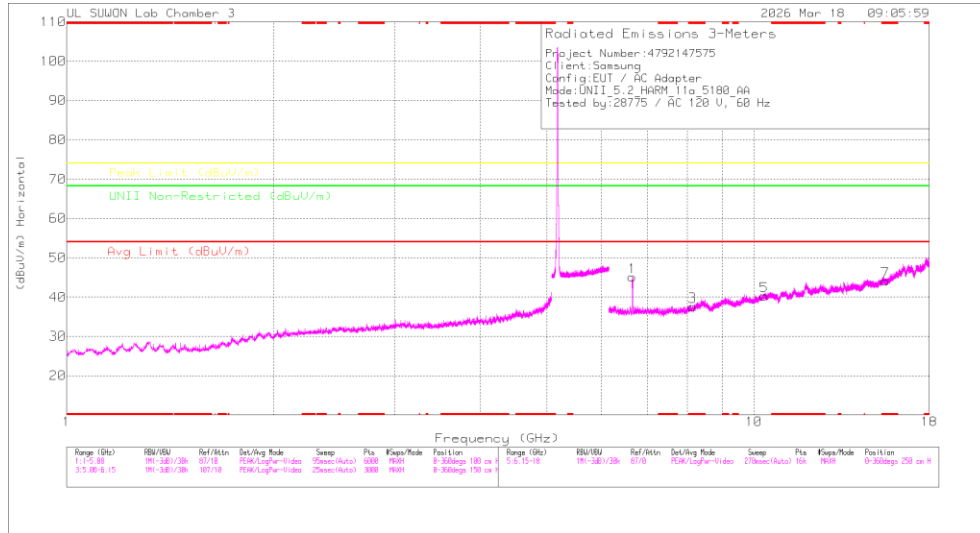
Bandedge Test Data

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11a	5180	MIMO	* 5.14999	40.84	Pk	34.40	-20.60	0.00	54.64	-	-	74.00	-19.36	310	103	H
			* 5.14437	41.88	Pk	34.40	-20.50	0.00	55.78	-	-	74.00	-18.22	310	103	H
			* 5.14999	29.87	RMS	34.40	-20.60	0.49	44.16	54.00	-9.84	-	-	310	103	H
			* 5.14964	30.65	RMS	34.40	-20.60	0.49	44.94	54.00	-9.06	-	-	310	103	H
802.11n (HT20)	5180	MIMO	* 5.14999	39.32	Pk	34.40	-20.60	0.00	53.12	-	-	74.00	-20.88	356	100	H
			* 5.14949	41.71	Pk	34.40	-20.60	0.00	55.51	-	-	74.00	-18.49	356	100	H
			* 5.14999	29.76	RMS	34.40	-20.60	0.10	43.66	54.00	-10.34	-	-	356	100	H
			* 5.14962	29.84	RMS	34.40	-20.60	0.10	43.74	54.00	-10.26	-	-	356	100	H
802.11n (HT40)	5190	MIMO	* 5.14999	46.11	Pk	34.40	-20.60	0.00	59.91	-	-	74.00	-14.09	59	106	H
			* 5.14942	46.28	Pk	34.40	-20.60	0.00	60.08	-	-	74.00	-13.92	59	106	H
			* 5.14999	36.33	RMS	34.40	-20.60	0.21	50.34	54.00	-3.66	-	-	59	106	H
			* 5.14997	36.94	RMS	34.40	-20.60	0.21	50.95	54.00	-3.05	-	-	59	106	H
802.11ac (VHT80)	5210	MIMO	* 5.14999	45.89	Pk	34.40	-20.60	0.00	59.69	-	-	74.00	-14.31	304	100	H
			* 5.14984	47.24	Pk	34.40	-20.60	0.00	61.04	-	-	74.00	-12.96	304	100	H
			* 5.14999	34.66	RMS	34.40	-20.60	0.26	48.72	54.00	-5.28	-	-	304	100	H
			* 5.14657	35.81	RMS	34.40	-20.50	0.26	49.97	54.00	-4.03	-	-	304	100	H
			* 5.14999	39.83	Pk	34.40	-20.60	0.00	53.63	-	-	74.00	-20.37	192	100	V
			* 5.14419	41.28	Pk	34.40	-20.50	0.00	55.18	-	-	74.00	-18.82	192	100	V
			* 5.14999	29.97	RMS	34.40	-20.60	0.26	44.03	54.00	-9.97	-	-	192	100	V
			* 5.14589	30.19	RMS	34.40	-20.40	0.26	44.45	54.00	-9.55	-	-	192	100	V
802.11ac (VHT160)	5250 Lower	MIMO	* 5.14999	43.90	Pk	34.40	-20.60	0.00	57.70	-	-	74.00	-16.30	309	100	H
			* 5.11539	48.24	Pk	34.30	-20.60	0.00	61.94	-	-	74.00	-12.06	309	100	H
			* 5.14999	33.43	RMS	34.40	-20.60	0.26	47.49	54.00	-6.51	-	-	309	100	H
			* 5.12887	33.87	RMS	34.40	-20.60	0.26	47.93	54.00	-6.07	-	-	309	100	H
802.11be (EHT20)	5180	MIMO	* 5.14999	44.07	Pk	34.40	-20.60	0.00	57.87	-	-	74.00	-16.13	309	111	H
			* 5.14894	46.87	Pk	34.40	-20.60	0.00	60.67	-	-	74.00	-13.33	309	111	H
			* 5.14999	34.13	RMS	34.40	-20.60	0.00	47.93	54.00	-6.07	-	-	309	111	H
			* 5.14997	34.30	RMS	34.40	-20.60	0.00	48.10	54.00	-5.90	-	-	309	111	H
802.11be (EHT20) MRU mode 106+26 Tone offset 82	5180	MIMO	* 5.14999	37.26	Pk	34.40	-20.60	0.00	51.06	-	-	74.00	-22.94	304	100	H
			* 5.14542	39.75	Pk	34.40	-20.50	0.00	53.65	-	-	74.00	-20.35	304	100	H
			* 5.14999	26.96	RMS	34.40	-20.60	0.00	40.76	54.00	-13.24	-	-	304	100	H
			* 5.13549	28.42	RMS	34.40	-20.50	0.00	42.32	54.00	-11.68	-	-	304	100	H
802.11be (EHT40)	5190	MIMO	* 5.14999	47.94	Pk	34.40	-20.60	0.00	61.74	-	-	74.00	-12.26	309	111	H
			* 5.14987	49.71	Pk	34.40	-20.60	0.00	63.51	-	-	74.00	-10.49	309	111	H
			* 5.14999	35.58	RMS	34.40	-20.60	0.00	49.38	54.00	-4.62	-	-	309	111	H
			* 5.14964	37.15	RMS	34.40	-20.60	0.00	50.95	54.00	-3.05	-	-	309	111	H
802.11be (EHT80)	5210	MIMO	* 5.14999	45.49	Pk	34.40	-20.60	0.00	59.29	-	-	74.00	-14.71	309	111	H
			* 5.14647	49.51	Pk	34.40	-20.50	0.00	63.41	-	-	74.00	-10.59	309	111	H
			* 5.14999	35.88	RMS	34.40	-20.60	0.00	49.68	54.00	-4.32	-	-	309	111	H
			* 5.14944	36.92	RMS	34.40	-20.60	0.00	50.72	54.00	-3.28	-	-	309	111	H
802.11be (EHT80) MRU mode 484+242 Tone offset 93	5210	MIMO	* 5.14999	43.78	Pk	34.40	-20.60	0.00	57.58	-	-	74.00	-16.42	311	110	H
			* 5.14882	46.41	Pk	34.40	-20.60	0.00	60.21	-	-	74.00	-13.79	311	110	H
			* 5.14999	34.74	RMS	34.40	-20.60	0.17	48.71	54.00	-5.29	-	-	311	110	H
			* 5.14704	35.16	RMS	34.40	-20.50	0.17	49.23	54.00	-4.77	-	-	311	110	H
			* 5.14999	41.05	Pk	34.40	-20.60	0.00	54.85	-	-	74.00	-19.15	202	100	V
			* 5.14339	42.67	Pk	34.40	-20.60	0.00	56.47	-	-	74.00	-17.53	202	100	V
			* 5.14999	30.43	RMS	34.40	-20.60	0.17	44.40	54.00	-9.60	-	-	202	100	V
			* 5.14672	31.02	RMS	34.40	-20.50	0.17	45.09	54.00	-8.91	-	-	202	100	V
802.11be (EHT160)	5250 Lower	MIMO	* 5.14999	47.54	Pk	34.40	-20.60	0.00	61.34	-	-	74.00	-12.66	309	111	H
			* 5.11161	56.52	Pk	34.30	-20.60	0.00	70.22	-	-	74.00	-3.78	309	111	H
			* 5.14999	35.52	RMS	34.40	-20.60	0.00	49.32	54.00	-4.68	-	-	309	111	H
			* 5.11131	37.61	RMS	34.30	-20.60	0.00	51.31	54.00	-2.69	-	-	309	111	H
			* 5.14999	45.44	Pk	34.40	-20.60	0.00	59.24	-	-	74.00	-14.76	283	104	V
			* 5.11164	55.73	Pk	34.30	-20.60	0.00	69.43	-	-	74.00	-4.57	283	104	V
			* 5.14999	33.67	RMS	34.40	-20.60	0.00	47.47	54.00	-6.53	-	-	283	104	V
			* 5.11134	36.74	RMS	34.30	-20.60	0.00	50.44	54.00	-3.56	-	-	283	104	V
802.11be (EHT160) MRU mode 996+484 Tone offset 1095	5250 Lower	MIMO	* 5.14999	45.35	Pk	34.40	-20.60	0.00	59.15	-	-	74.00	-14.85	303	100	H
			* 5.14802	46.53	Pk	34.40	-20.60	0.00	60.33	-	-	74.00	-13.67	303	100	H
			* 5.14999	33.88	RMS	34.40	-20.60	0.18	47.86	54.00	-6.14	-	-	303	100	H
			* 5.13534	34.77	RMS	34.40	-20.50	0.18	48.85	54.00	-5.15	-	-	303	100	H

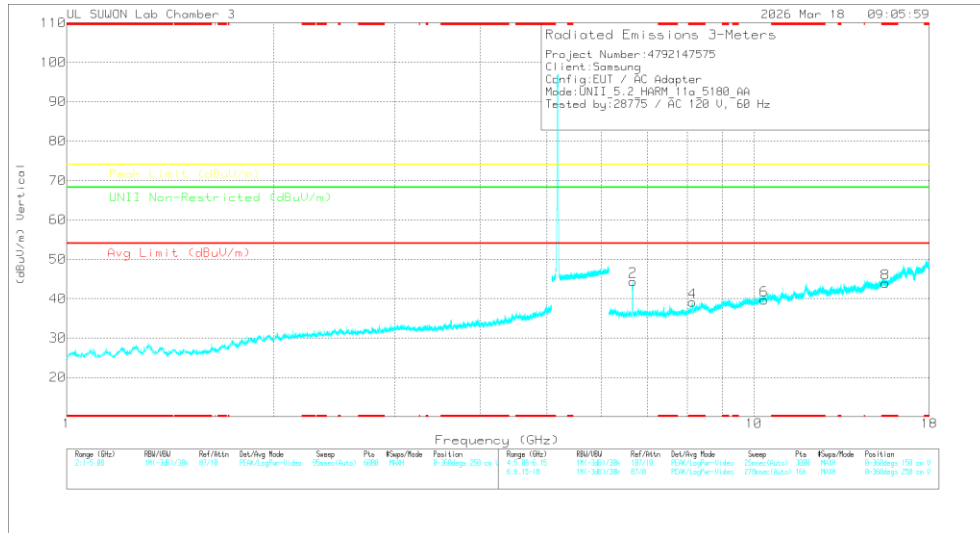
Note1. Pk - Peak detector, RMS - RMS detector

Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 802.11a / 5180 MHz)
5180 MHz HORIZONTAL



5180 MHz VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

5180 MHz DATA

Radiated Emissions

Frequency (GHz)	Meas Reading (dBm)	Det	Antenna Factor (dBm)	GHz_HF_Path Loss (dB)	DC Corr (dB)	Corrected Reading (dBm)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Admth (Days)	Height (cm)	Polarity
6.86715	45.32	PK-U	36	-27.1	0	54.22	-	-	-	-	68.2	-13.88	227	100	H
6.86619	45.84	PK-U	36	-27.1	0	54.94	-	-	-	-	68.2	-13.36	176	112	V
* 8.14176	35.79	PK-U	36	-23.7	0	48.09	-	-	74	-25.91	-	-	253	120	H
* 8.14663	24.03	ADR	36	-23.7	49	36.82	54	-17.18	-	-	-	-	253	120	H
* 8.1346	37.13	PK-U	36	-23.7	0	49.43	-	-	74	-24.57	-	-	194	101	V
* 6.13577	26.01	ADR	36	-23.7	49	38.5	54	-15.2	-	-	-	-	194	101	V
10.35708	32.97	PK-U	37.5	-21	0	49.47	-	-	-	-	68.2	-18.73	0	100	H
10.36535	34.23	PK-U	37.5	-21	0	50.73	-	-	-	-	68.2	-17.47	199	108	V
* 15.54066	33.87	PK-U	40.1	-21.1	0	52.87	-	-	74	-21.13	-	-	0	100	H
* 15.5402	34.69	PK-U	40.1	-21.1	0	53.69	-	-	74	-20.31	-	-	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

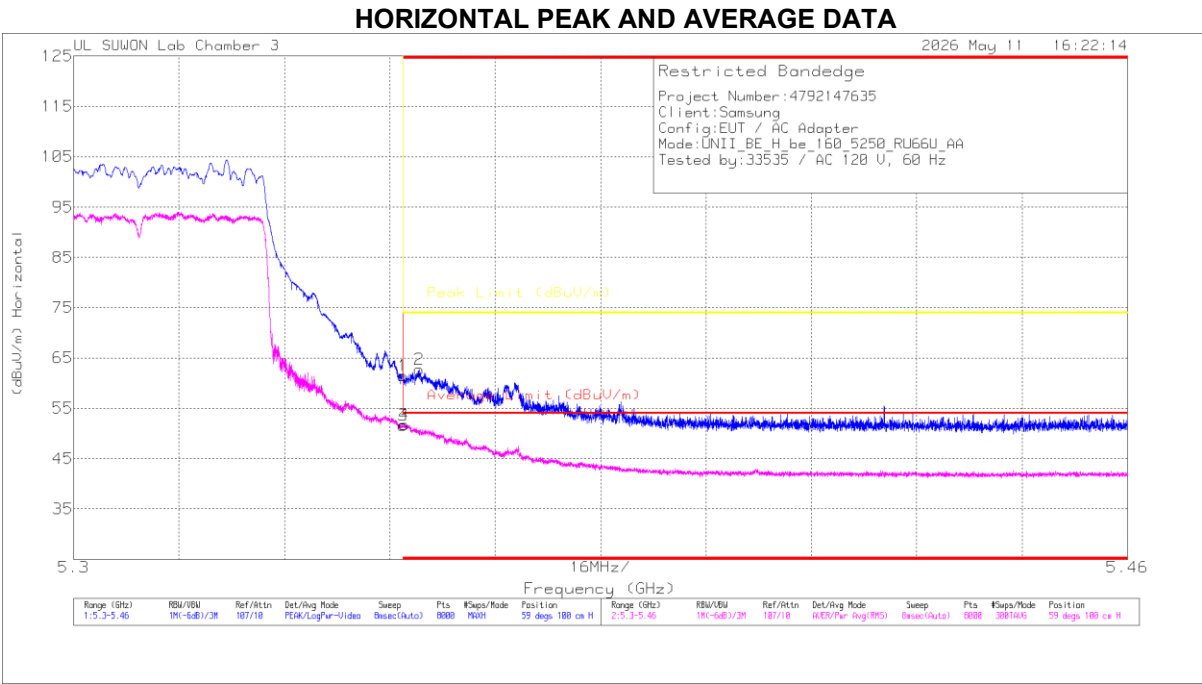
Note. The highest spurious listed except for the noise floor.

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result dBuV/m	AV Limit dBuV/m	AV Margin [dB]	PK Limit dBuV/m	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11a	5180	MIMO	6.667	45.32	PK-U	36.00	-27.10	0.00	54.22	-	-	-	-	68.20	-13.98	227	100	H
			6.666	45.94	PK-U	36.00	-27.10	0.00	54.84	-	-	-	-	68.20	-13.36	176	112	V
			* 8.14176	35.79	PK-U	36.00	-23.70	0.00	48.09	-	-	74.00	-25.91	-	-	253	120	H
			* 8.14663	24.03	ADR	36.00	-23.70	0.49	36.82	54.00	-17.18	-	-	-	-	253	120	H
			* 8.1346	37.13	PK-U	36.00	-23.70	0.00	49.43	-	-	74.00	-24.57	-	-	194	101	V
			* 8.13577	26.01	ADR	36.00	-23.70	0.49	38.80	54.00	-15.20	-	-	-	-	194	101	V
			10.357	32.97	PK-U	37.50	-21.00	0.00	49.47	-	-	-	-	68.20	-18.73	0	100	H
			10.365	34.23	PK-U	37.50	-21.00	0.00	50.73	-	-	-	-	68.20	-17.47	199	108	V
			* 15.54066	33.87	PK-U	40.10	-21.10	0.00	52.87	-	-	74.00	-21.13	-	-	0	100	H
			* 15.5402	34.69	PK-U	40.10	-21.10	0.00	53.69	-	-	74.00	-20.31	-	-	0	100	V
			6.679	44.81	PK-U	36.00	-27.10	0.00	53.71	-	-	-	-	68.20	-14.49	225	106	H
			6.693	44.66	PK-U	36.00	-27.10	0.00	53.56	-	-	-	-	68.20	-14.64	171	105	V
	* 8.16635	34.33	PK-U	36.00	-23.70	0.00	46.63	-	-	74.00	-27.37	-	-	253	128	H		
	* 8.17272	23.29	ADR	36.00	-23.70	0.49	36.08	54.00	-17.92	-	-	-	-	253	128	H		
	* 8.16653	36.05	PK-U	36.00	-23.70	0.00	48.35	-	-	74.00	-25.65	-	-	153	100	V		
	* 8.16696	25.08	ADR	36.00	-23.70	0.49	37.87	54.00	-16.13	-	-	-	-	153	100	V		
	10.402	33.59	PK-U	37.50	-21.00	0.00	50.09	-	-	-	-	68.20	-18.11	0	100	H		
	10.406	33.91	PK-U	37.50	-21.00	0.00	50.41	-	-	-	-	68.20	-17.79	199	120	V		
	* 15.60476	33.74	PK-U	40.20	-21.10	0.00	52.84	-	-	74.00	-21.16	-	-	0	100	H		
	* 15.5995	34.02	PK-U	40.20	-21.00	0.00	53.22	-	-	74.00	-20.78	-	-	0	100	V		
	5200	MIMO	6.734	43.76	PK-U	36.00	-27.10	0.00	52.66	-	-	-	-	68.20	-15.54	225	103	H
			6.734	44.68	PK-U	36.00	-27.10	0.00	53.58	-	-	-	-	68.20	-14.62	176	106	V
			* 8.24255	35.02	PK-U	36.00	-23.90	0.00	47.12	-	-	74.00	-26.88	-	-	197	108	H
			* 8.23522	23.67	ADR	36.00	-23.90	0.49	36.26	54.00	-17.74	-	-	-	-	197	108	H
			* 8.24055	35.37	PK-U	36.00	-23.90	0.00	47.47	-	-	74.00	-26.53	-	-	156	108	V
			* 8.22984	24.31	ADR	36.00	-24.00	0.49	36.80	54.00	-17.20	-	-	-	-	156	108	V
			10.488	33.15	PK-U	37.60	-21.00	0.00	49.75	-	-	-	-	68.20	-18.45	0	100	H
			10.486	34.78	PK-U	37.60	-21.00	0.00	51.38	-	-	-	-	68.20	-16.82	199	101	V
			* 15.72312	33.70	PK-U	40.40	-20.60	0.00	53.50	-	-	74.00	-20.50	-	-	0	100	H
			* 15.71159	34.06	PK-U	40.40	-20.70	0.00	53.76	-	-	74.00	-20.24	-	-	0	100	V
802.11n HT40 Spot-check	5180	MIMO	6.656	45.51	PK-U	36.00	-27.10	0.00	54.41	-	-	-	-	68.20	-13.79	135	252	H
			6.667	45.57	PK-U	36.00	-27.10	0.00	54.47	-	-	-	-	68.20	-13.73	171	103	V
			* 8.14406	34.69	PK-U	36.00	-23.70	0.00	46.99	-	-	74.00	-27.01	-	-	197	120	H
			* 8.14743	23.65	ADR	36.00	-23.70	0.10	36.05	54.00	-17.95	-	-	-	-	197	120	H
			* 8.13521	37.20	PK-U	36.00	-23.70	0.00	49.50	-	-	74.00	-24.50	-	-	163	106	V
			* 8.13862	25.95	ADR	36.00	-23.70	0.10	38.35	54.00	-15.65	-	-	-	-	163	106	V
			10.356	33.34	PK-U	37.50	-21.10	0.00	49.74	-	-	-	-	68.20	-18.46	0	100	H
			10.362	33.92	PK-U	37.50	-21.00	0.00	50.42	-	-	-	-	68.20	-17.78	207	100	V
			* 15.54119	34.24	PK-U	40.10	-21.10	0.00	53.24	-	-	74.00	-20.76	-	-	0	100	H
			* 15.54019	34.40	PK-U	40.10	-21.10	0.00	53.40	-	-	74.00	-20.60	-	-	0	100	V
802.11n HT40 Spot-check	5190	MIMO	6.667	44.43	PK-U	36.00	-27.10	0.00	53.33	-	-	-	-	68.20	-14.87	135	240	H
			6.656	43.66	PK-U	36.00	-27.10	0.00	52.56	-	-	-	-	68.20	-15.64	177	115	V
			* 8.14475	34.48	PK-U	36.00	-23.70	0.00	46.78	-	-	74.00	-27.22	-	-	197	108	H
			* 8.14024	23.30	ADR	36.00	-23.60	0.21	35.91	54.00	-18.09	-	-	-	-	197	108	H
			* 8.15176	35.42	PK-U	36.00	-23.60	0.00	47.82	-	-	74.00	-26.18	-	-	162	118	V
			* 8.13795	24.35	ADR	36.00	-23.70	0.21	36.86	54.00	-17.14	-	-	-	-	162	118	V
			10.377	32.75	PK-U	37.50	-20.90	0.00	49.35	-	-	-	-	68.20	-18.85	0	100	H
			10.381	33.66	PK-U	37.50	-20.90	0.00	50.26	-	-	-	-	68.20	-17.94	210	104	V
			* 15.96593	34.11	PK-U	40.10	-21.00	0.00	53.21	-	-	74.00	-20.79	-	-	0	100	H
			* 15.97102	33.91	PK-U	40.10	-21.10	0.00	52.91	-	-	74.00	-21.09	-	-	0	100	V
802.11ac VHT80 Spot-check	5210	MIMO	6.664	40.71	PK-U	36.00	-27.10	0.00	49.61	-	-	-	-	68.20	-18.59	248	101	H
			6.666	41.02	PK-U	36.00	-27.10	0.00	49.92	-	-	-	-	68.20	-18.28	175	110	V
			* 8.26226	35.67	PK-U	36.00	-23.90	0.00	47.77	-	-	74.00	-26.23	-	-	53	121	H
			* 8.25913	23.76	ADR	36.00	-23.90	0.26	36.12	54.00	-17.88	-	-	-	-	53	121	H
			* 8.24479	35.38	PK-U	36.00	-23.90	0.00	47.48	-	-	74.00	-26.52	-	-	100	146	V
			* 8.25144	23.76	ADR	36.00	-23.90	0.26	36.12	54.00	-17.88	-	-	-	-	100	146	V
			10.421	33.65	PK-U	37.50	-21.10	0.00	50.05	-	-	-	-	68.20	-18.15	0	100	H
			10.421	33.31	PK-U	37.50	-21.10	0.00	49.71	-	-	-	-	68.20	-18.49	0	100	V
			* 15.62906	34.28	PK-U	40.30	-21.00	0.00	53.58	-	-	74.00	-20.42	-	-	0	100	H
			* 15.63403	34.59	PK-U	40.30	-21.10	0.00	53.79	-	-	74.00	-20.21	-	-	0	100	V
802.11ac VHT160 Spot-check	5250	MIMO	6.717	38.61	PK-U	36.00	-27.00	0.00	47.61	-	-	-	-	68.20	-20.59	248	104	H
			6.770	40.04	PK-U	36.00	-27.00	0.00	49.04	-	-	-	-	68.20	-19.16	217	101	V
			* 8.27774	35.37	PK-U	36.00	-23.90	0.00	47.47	-	-	74.00	-26.53	-	-	200	104	H
			* 8.25452	23.84	ADR	36.00	-23.90	0.26	36.20	54.00	-17.80	-	-	-	-	200	104	H
			* 8.25244	35.50	PK-U	36.00	-23.90	0.00	47.60	-	-	74.00	-26.40	-	-	36	249	V
			* 8.2524	23.72	ADR	36.00	-23.90	0.26	36.08	54.00	-17.92	-	-	-	-	36	249	V
			10.484	34.10	PK-U	37.60	-21.00	0.00	50.70	-	-	-	-	68.20	-17.50	171	231	H
			10.498	33.01	PK-U	37.60	-20.80	0.00	49.81	-	-	-	-	68.20	-18.39	204	108	V
			* 15.63322	34.90	PK-U	40.30	-21.10	0.00	54.10	-	-	74.00	-19.90	-	-	0	100	H
			* 15.63997	22.35	ADR	40.30	-20.80	0.26	42.11	54.00	-11.89	-	-	-	-	0	100	H
* 15.62107	34.10	PK-U	40.20	-21.00	0.00	53.30	-	-	74.00	-20.70	-	-	0	100	V			
802.11be (EHT20) RU mode 106 Tone offset 53	5180	MIMO	6.656	41.80	PK-U	36.00	-27.10	0.00	50.70	-	-	-	-	68.20	-17.50	137	241	H
			6.654	41.16	PK-U	36.00	-27.10	0.00	50.06	-	-	-	-	68.20	-18.14	141	104	V
			* 8.13122	35.39	PK-U	36.00	-23.70	0.00	47.69	-	-	74.00	-26.31	-	-	202	139	H
			* 8.13096	24.42	ADR	36.00	-23.70	0.18	36.90	54.00	-17.10	-	-	-	-	202	139	H
			* 8.13281	37.19	PK-U	36.00	-23.70	0.00	49.49	-	-	74.00	-24.51	-	-	194	268	V
			* 8.13323	26.18	ADR	36.00	-23.70	0.18	38.66	54.00	-15.34	-	-	-	-	194	268	V
			10.362	34.72	PK-U	37.50	-21.00	0.00	51.22	-	-	-	-	68.20	-16.98	207	234	H
			10.350	34.37	PK-U	37.50	-21.00	0.00	50.87	-	-	-	-	68.20	-17.33	209	101	V
			* 15.54145	35.74	PK-U	40.10	-21.10	0.00	54.74	-	-	74.00	-19.26	-	-	0	100	H
			* 15.53639	24.18	ADR	40.10	-21.20	0.18	43.26	54.00	-10.74	-	-	-	-	0	100	H
* 15.54006	34.79	PK-U	40.10	-21.10	0.00	53.79	-	-	74.00	-20.21	-	-	0	100	V			

11.2. TX ABOVE 1GHz 2Tx MODE IN THE 5.3GHz BAND

BANDEDGE (WORST CASE: 802.11be EHT160 / 5250 MHz / 484T 66RU)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dBm)	10dB_Path Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.35001	47.02	Pk	34.7	-20.3	0	61.42	-	-	74	-12.58	59	100	H
2	* 5.35247	48.32	Pk	34.7	-20.3	0	62.72	-	-	74	-11.28	59	100	H
3	* 5.35001	36.93	RMS	34.7	-20.3	24	51.57	54	-2.43	-	-	59	100	H
4	* 5.35023	37.14	RMS	34.7	-20.3	24	51.78	54	-2.22	-	-	59	100	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

BANDEDGE TEST DATA

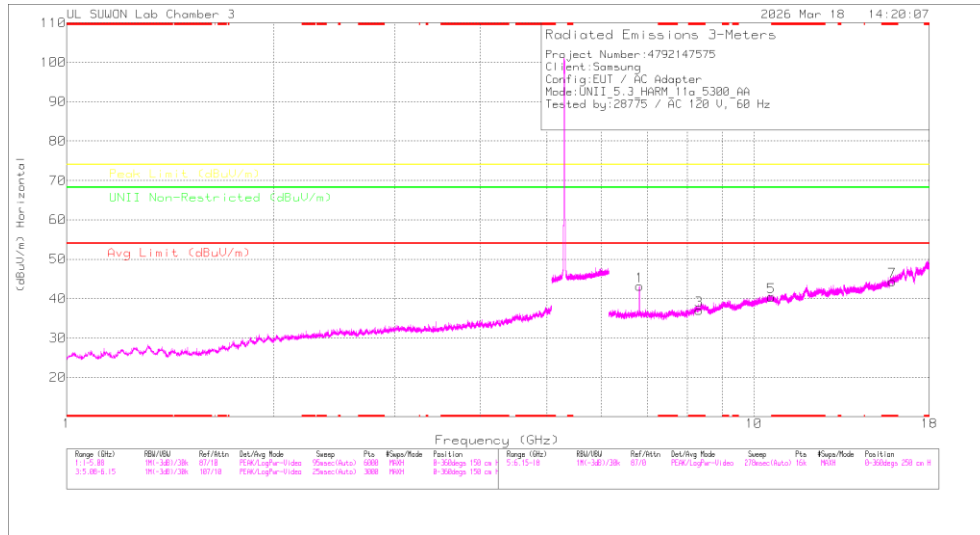
Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degr]	Height [cm]	Polarity
802.11a	5320	MIMO	* 5.35001	37.57	Pk	34.70	-20.30	0.00	51.97	-	-	74.00	-22.03	308	108	H
			* 5.42788	40.14	Pk	34.90	-20.20	0.00	54.84	-	-	74.00	-19.16	308	108	H
			* 5.35001	26.93	RMS	34.70	-20.30	0.49	41.82	54.00	-12.18	-	-	308	108	H
			* 5.35513	28.10	RMS	34.70	-20.30	0.49	42.99	54.00	-11.01	-	-	308	108	H
802.11n (HT20)	5320	MIMO	* 5.35001	38.11	Pk	34.70	-20.30	0.00	52.51	-	-	74.00	-21.49	312	104	H
			* 5.35413	39.36	Pk	34.70	-20.30	0.00	53.76	-	-	74.00	-20.24	312	104	H
			* 5.35001	27.75	RMS	34.70	-20.30	0.10	42.25	54.00	-11.75	-	-	312	104	H
			* 5.35029	28.27	RMS	34.70	-20.30	0.10	42.77	54.00	-11.23	-	-	312	104	H
802.11n (HT40)	5310	MIMO	* 5.35001	44.31	Pk	34.70	-20.30	0.00	58.71	-	-	74.00	-15.29	59	100	H
			* 5.35357	47.74	Pk	34.70	-20.30	0.00	62.14	-	-	74.00	-11.86	59	100	H
			* 5.35001	32.82	RMS	34.70	-20.30	0.21	47.43	54.00	-6.57	-	-	59	100	H
			* 5.35445	34.86	RMS	34.70	-20.30	0.21	49.47	54.00	-4.53	-	-	59	100	H
802.11ac (VHT80)	5290	MIMO	* 5.35001	44.76	Pk	34.70	-20.30	0.00	59.16	-	-	74.00	-14.84	59	100	H
			* 5.35369	47.05	Pk	34.70	-20.30	0.00	61.45	-	-	74.00	-12.55	59	100	H
			* 5.35001	31.97	RMS	34.70	-20.30	0.26	46.63	54.00	-7.37	-	-	59	100	H
			* 5.35055	32.46	RMS	34.70	-20.30	0.26	47.12	54.00	-6.88	-	-	59	100	H
802.11ac (VHT160)	5250 Upper	MIMO	* 5.35001	41.80	Pk	34.70	-20.30	0.00	56.20	-	-	74.00	-17.80	314	103	H
			* 5.40642	45.30	Pk	34.80	-20.20	0.00	59.90	-	-	74.00	-14.10	314	103	H
			* 5.35001	30.84	RMS	34.70	-20.30	0.26	45.50	54.00	-8.50	-	-	314	103	H
			* 5.35885	32.59	RMS	34.70	-20.30	0.26	47.25	54.00	-6.75	-	-	314	103	H
802.11be (EHT20)	5320	MIMO	* 5.35001	40.33	Pk	34.70	-20.30	0.00	54.73	-	-	74.00	-19.27	316	111	H
			* 5.35079	42.93	Pk	34.70	-20.30	0.00	57.33	-	-	74.00	-16.67	316	111	H
			* 5.35001	30.24	RMS	34.70	-20.30	0.00	44.64	54.00	-9.36	-	-	316	111	H
			* 5.35105	30.45	RMS	34.70	-20.30	0.00	44.85	54.00	-9.15	-	-	316	111	H
802.11be (EHT20) MRU mode 106+26 Tone offset 83	5320	MIMO	* 5.35001	37.13	Pk	34.70	-20.30	0.00	51.53	-	-	74.00	-22.47	311	108	H
			* 5.42406	39.25	Pk	34.80	-20.20	0.00	53.85	-	-	74.00	-20.15	311	108	H
			* 5.35001	26.90	RMS	34.70	-20.30	0.00	41.30	54.00	-12.70	-	-	311	108	H
			* 5.35521	27.91	RMS	34.70	-20.30	0.00	42.31	54.00	-11.69	-	-	311	108	H
802.11be (EHT40)	5310	MIMO	* 5.35001	47.02	Pk	34.70	-20.30	0.00	61.42	-	-	74.00	-12.58	316	111	H
			* 5.35057	49.49	Pk	34.70	-20.30	0.00	63.89	-	-	74.00	-10.11	316	111	H
			* 5.35001	36.46	RMS	34.70	-20.30	0.00	50.86	54.00	-3.14	-	-	316	111	H
			* 5.35083	35.65	RMS	34.70	-20.30	0.00	50.05	54.00	-3.95	-	-	316	111	H
			* 5.35001	45.97	Pk	34.70	-20.30	0.00	60.37	-	-	74.00	-13.63	178	165	V
			* 5.35047	48.85	Pk	34.70	-20.30	0.00	63.25	-	-	74.00	-10.75	178	165	V
			* 5.35001	33.31	RMS	34.70	-20.30	0.00	47.71	54.00	-6.29	-	-	178	165	V
			* 5.35005	34.72	RMS	34.70	-20.30	0.00	49.12	54.00	-4.88	-	-	178	165	V
802.11be (EHT80)	5290	MIMO	* 5.35001	46.59	Pk	34.70	-20.30	0.00	60.99	-	-	74.00	-13.01	59	100	H
			* 5.35193	48.67	Pk	34.70	-20.30	0.00	63.07	-	-	74.00	-10.93	59	100	H
			* 5.35001	35.80	RMS	34.70	-20.30	0.00	50.20	54.00	-3.80	-	-	59	100	H
			* 5.35105	36.20	RMS	34.70	-20.30	0.00	50.60	54.00	-3.40	-	-	59	100	H
802.11be (EHT80) RU mode 484 Tone offset 66	5290	MIMO	* 5.35001	46.45	Pk	34.70	-20.30	0.00	60.85	-	-	74.00	-13.15	59	100	H
			* 5.35175	46.58	Pk	34.70	-20.30	0.00	60.98	-	-	74.00	-13.02	59	100	H
			* 5.35001	34.77	RMS	34.70	-20.30	0.23	49.40	54.00	-4.60	-	-	59	100	H
			* 5.35003	35.03	RMS	34.70	-20.30	0.23	49.66	54.00	-4.34	-	-	59	100	H
802.11be (EHT80) MRU mode 484+242 Tone offset 90	5290	MIMO	* 5.35001	45.86	Pk	34.70	-20.30	0.00	60.26	-	-	74.00	-13.74	59	100	H
			* 5.35735	50.02	Pk	34.70	-20.30	0.00	64.42	-	-	74.00	-9.58	59	100	H
			* 5.35001	35.06	RMS	34.70	-20.30	0.17	49.63	54.00	-4.37	-	-	59	100	H
			* 5.35019	35.41	RMS	34.70	-20.30	0.17	49.98	54.00	-4.02	-	-	59	100	H
802.11be (EHT160)	5250 Upper	MIMO	* 5.35001	41.30	Pk	34.70	-20.30	0.00	55.70	-	-	74.00	-18.30	316	111	H
			* 5.40578	46.45	Pk	34.80	-20.20	0.00	61.05	-	-	74.00	-12.95	316	111	H
			* 5.35001	31.57	RMS	34.70	-20.30	0.00	45.97	54.00	-8.03	-	-	316	111	H
			* 5.35353	32.28	RMS	34.70	-20.30	0.00	46.68	54.00	-7.32	-	-	316	111	H
802.11be (EHT160) RU mode 242T Tone offset 64	5250 Upper	MIMO	* 5.35001	47.43	Pk	34.70	-20.30	0.00	61.83	-	-	74.00	-12.17	59	100	H
			* 5.35059	49.06	Pk	34.70	-20.30	0.00	63.46	-	-	74.00	-10.54	59	100	H
			* 5.35001	35.37	RMS	34.70	-20.30	0.13	49.90	54.00	-4.10	-	-	59	100	H
			* 5.35007	35.84	RMS	34.70	-20.30	0.13	50.37	54.00	-3.63	-	-	59	100	H
802.11be (EHT160) RU mode 484T Tone offset 66	5250 Upper	MIMO	* 5.35001	47.02	Pk	34.70	-20.30	0.00	61.42	-	-	74.00	-12.58	59	100	H
			* 5.35247	48.32	Pk	34.70	-20.30	0.00	62.72	-	-	74.00	-11.28	59	100	H
			* 5.35001	36.93	RMS	34.70	-20.30	0.24	51.57	54.00	-2.43	-	-	59	100	H
			* 5.35023	37.14	RMS	34.70	-20.30	0.24	51.78	54.00	-2.22	-	-	59	100	H
802.11be (EHT160) RU mode 996T Tone offset 67	5250 Upper	MIMO	* 5.35001	45.15	Pk	34.70	-20.30	0.00	59.55	-	-	74.00	-14.45	59	100	H
			* 5.35649	49.39	Pk	34.70	-20.30	0.00	63.79	-	-	74.00	-10.21	59	100	H
			* 5.35001	35.27	RMS	34.70	-20.30	0.23	49.90	54.00	-4.10	-	-	59	100	H
			* 5.35105	36.27	RMS	34.70	-20.30	0.23	50.90	54.00	-3.10	-	-	59	100	H
802.11be (EHT160) MRU mode 996+484 Tone offset 94	5250 Upper	MIMO	* 5.35001	44.86	Pk	34.70	-20.30	0.00	59.26	-	-	74.00	-14.74	311	111	H
			* 5.38581	50.54	Pk	34.80	-20.30	0.00	65.04	-	-	74.00	-8.96	311	111	H
			* 5.35001	33.36	RMS	34.70	-20.30	0.18	47.94	54.00	-6.06	-	-	311	111	H
			* 5.38593	35.22	RMS	34.80	-20.30	0.18	49.90	54.00	-4.10	-	-	311	111	H
			* 5.35001	44.24	Pk	34.70	-20.30	0.00	58.64	-	-	74.00	-15.36	162	157	V
			* 5.36179	48.17	Pk	34.70	-20.20	0.00	62.67	-	-	74.00	-11.33	162	157	V
			* 5.35001	34.06	RMS	34.70	-20.30	0.18	48.64	54.00	-5.36	-	-	162	157	V
			* 5.36421	34.14	RMS	34.70	-20.30	0.18	48.72	54.00	-5.28	-	-	162	157	V

Note1. Pk - Peak detector, RMS - RMS detector

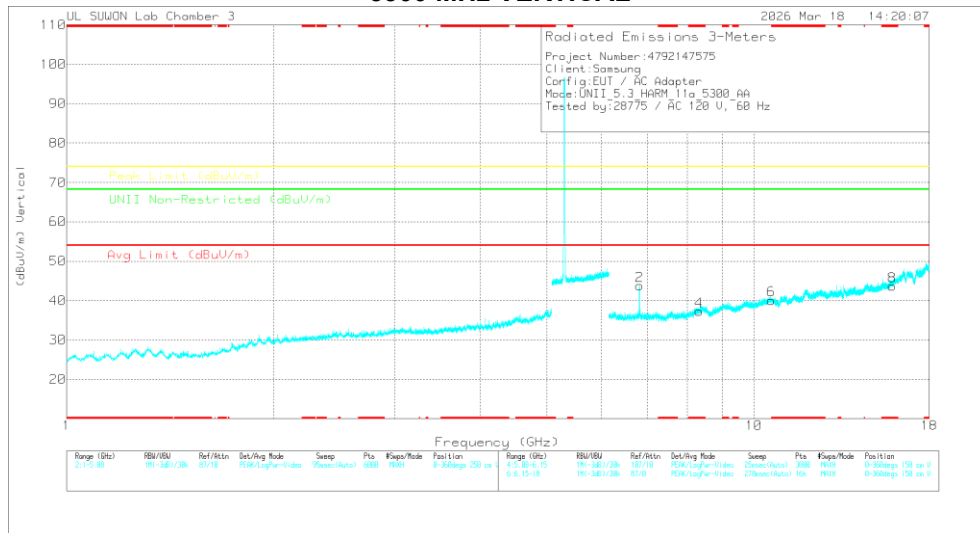
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 802.11a / 5300 MHz)

5300 MHz HORIZONTAL



5300 MHz VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

5300 MHz DATA

Radiated Emissions

Frequency (GHz)	Meas. Reading (dBuV)	Det	Antenna Factor (dBm)	8GHz_HF_Path Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Asimuth (Degs)	Height (m)	Polarity
6.8087	43.04	PK-U	36	-26.7	0	52.34	-	-	-	-	68.2	-15.86	143	251	H
6.82068	43.73	PK-U	36	-26.6	0	53.13	-	-	-	-	68.2	-15.07	179	161	V
* 8.31399	35.91	PK-U	36	-23.9	0	48.11	-	-	74	-25.89	-	-	0	100	H
* 8.32088	35.31	PK-U	36	-23.7	0	47.61	-	-	74	-26.39	-	-	146	111	V
* 8.32562	24.02	ADR	36	-23.9	49	36.61	54	-17.39	-	-	-	-	146	111	V
* 10.60985	33.37	PK-U	37.7	-21	0	50.07	-	-	74	-23.93	-	-	0	100	H
* 10.60102	35.25	PK-U	37.7	-21	0	51.95	-	-	74	-22.05	-	-	211	100	V
* 10.6014	22.94	ADR	37.7	-21	49	40.13	54	-13.87	-	-	-	-	211	100	V
* 15.89605	33.18	PK-U	40.8	-19.9	0	54.08	-	-	74	-19.92	-	-	0	100	H
* 15.89924	21.29	ADR	40.8	-19.9	49	42.68	54	-11.32	-	-	-	-	0	100	H
* 15.90403	32.66	PK-U	40.8	-19.8	0	53.66	-	-	74	-20.34	-	-	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

Note. The highest spurious listed except for the noise floor.

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11a	5260	MIMO	6.757	43.81	PK-U	36.00	-27.00	0.00	52.81	-	-	-	-	68.20	-15.39	143	253	H
			6.769	44.35	PK-U	36.00	-27.00	0.00	53.35	-	-	-	-	68.20	-14.85	184	152	V
			* 8.2695	35.37	PK-U	36.00	-23.90	0.00	47.47	-	-	74.00	-26.53	-	-	208	110	H
			* 8.2713	23.97	ADR	36.00	-23.90	0.49	36.56	54.00	-17.44	-	-	-	-	208	110	H
			* 8.26102	35.23	PK-U	36.00	-23.90	0.00	47.33	-	-	74.00	-26.67	-	-	160	115	V
			* 8.26067	24.63	ADR	36.00	-23.90	0.49	37.22	54.00	-16.78	-	-	-	-	160	115	V
			10.523	33.56	PK-U	37.60	-21.00	0.00	50.16	-	-	-	-	68.20	-18.04	0	100	H
			10.522	34.08	PK-U	37.60	-21.00	0.00	50.68	-	-	-	-	68.20	-17.52	206	110	V
			* 15.78252	33.99	PK-U	40.60	-20.40	0.00	54.19	-	-	74.00	-19.81	-	-	0	100	H
			* 15.78046	22.59	ADR	40.60	-20.50	0.49	43.18	54.00	-10.82	-	-	-	-	0	100	H
			* 15.77988	33.65	PK-U	40.60	-20.60	0.00	53.65	-	-	74.00	-20.35	-	-	0	100	V
			6.809	43.04	PK-U	36.00	-26.70	0.00	52.34	-	-	-	-	68.20	-15.86	143	251	H
			6.821	43.73	PK-U	36.00	-26.60	0.00	53.13	-	-	-	-	68.20	-15.07	179	161	V
			* 8.31399	35.91	PK-U	36.00	-23.80	0.00	48.11	-	-	74.00	-25.89	-	-	0	100	H
			* 8.32068	35.31	PK-U	36.00	-23.70	0.00	47.61	-	-	74.00	-26.39	-	-	146	111	V
	5300	MIMO	* 8.32562	24.02	ADR	36.00	-23.90	0.49	36.61	54.00	-17.39	-	-	-	-	146	111	V
			* 10.60985	33.37	PK-U	37.70	-21.00	0.00	50.07	-	-	74.00	-23.93	-	-	0	100	H
			* 10.60102	35.25	PK-U	37.70	-21.00	0.00	51.95	-	-	74.00	-22.05	-	-	211	100	V
			* 10.6014	22.94	ADR	37.70	-21.00	0.49	40.13	54.00	-13.87	-	-	-	-	211	100	V
			* 15.89605	33.18	PK-U	40.80	-19.90	0.00	54.08	-	-	74.00	-19.92	-	-	0	100	H
			* 15.89924	21.29	ADR	40.80	-19.90	0.49	42.68	54.00	-11.32	-	-	-	-	0	100	H
			* 15.90403	32.66	PK-U	40.80	-19.80	0.00	53.66	-	-	74.00	-20.34	-	-	0	100	V
			6.384	38.77	PK-U	35.90	-27.70	0.00	46.97	-	-	-	-	68.20	-21.23	56	261	H
			6.384	39.28	PK-U	35.90	-27.70	0.00	47.48	-	-	-	-	68.20	-20.72	176	291	V
			* 10.63456	33.17	PK-U	37.70	-20.90	0.00	49.97	-	-	74.00	-24.03	-	-	163	111	H
			* 10.6387	21.82	ADR	37.70	-21.00	0.49	39.01	54.00	-14.99	-	-	-	-	163	111	H
			* 10.63645	33.59	PK-U	37.70	-20.90	0.00	50.39	-	-	74.00	-23.61	-	-	143	130	V
			* 10.64025	22.10	ADR	37.70	-20.80	0.49	39.49	54.00	-14.51	-	-	-	-	143	130	V
			* 15.96155	33.72	PK-U	40.90	-19.90	0.00	54.72	-	-	74.00	-19.28	-	-	0	100	H
			* 15.96088	21.89	ADR	40.90	-19.90	0.49	43.38	54.00	-10.62	-	-	-	-	0	100	H
	5320	MIMO	* 15.96361	33.92	PK-U	40.90	-19.90	0.00	54.92	-	-	74.00	-19.08	-	-	0	100	V
			* 15.96075	21.92	ADR	40.90	-19.90	0.49	43.41	54.00	-10.59	-	-	-	-	0	100	V
			6.819	41.79	PK-U	36.00	-26.60	0.00	51.19	-	-	-	-	68.20	-17.01	145	260	H
			6.820	42.12	PK-U	36.00	-26.60	0.00	51.52	-	-	-	-	68.20	-16.68	207	101	V
			* 8.32058	35.31	PK-U	36.00	-23.70	0.00	47.61	-	-	74.00	-26.39	-	-	0	100	H
			* 8.33562	36.03	PK-U	36.00	-23.70	0.00	48.33	-	-	74.00	-25.67	-	-	181	100	V
			* 8.33774	24.08	ADR	36.00	-23.70	0.18	36.56	54.00	-17.44	-	-	-	-	181	100	V
			* 10.60482	34.03	PK-U	37.70	-21.00	0.00	50.73	-	-	74.00	-23.27	-	-	182	117	H
802.11be EHT20 RU mode 106 Tone offset 54 Spot-check	5300	MIMO	* 10.61078	22.25	ADR	37.70	-21.00	0.18	39.13	54.00	-14.87	-	-	-	-	182	117	H
			* 10.61013	34.49	PK-U	37.70	-21.00	0.00	51.19	-	-	74.00	-22.81	-	-	210	100	V
			* 10.60979	22.90	ADR	37.70	-21.00	0.18	39.78	54.00	-14.22	-	-	-	-	210	100	V
			* 15.89407	33.08	PK-U	40.80	-19.90	0.00	53.98	-	-	74.00	-20.02	-	-	0	100	H
			* 15.90661	33.03	PK-U	40.80	-19.90	0.00	53.93	-	-	74.00	-20.07	-	-	0	100	V

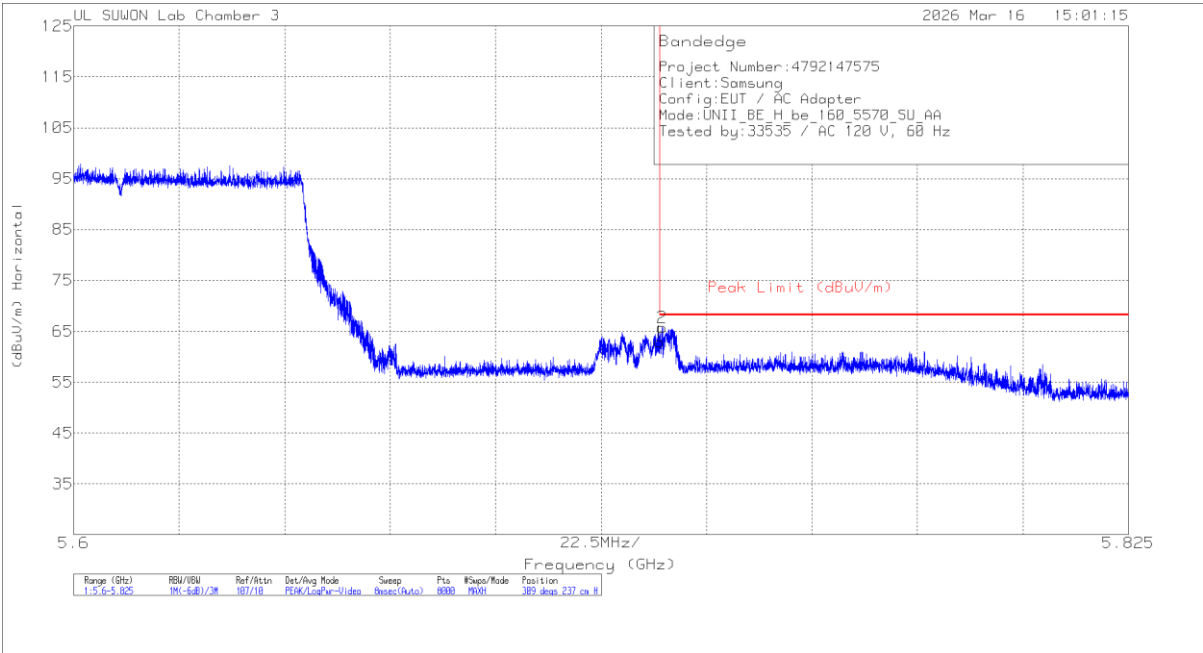
Note1. PK-U - U-NII: Maximum Peak / ADR - U-NII AD primary method, RMS average

Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

11.3. TX ABOVE 1GHz 2Tx MODE IN THE 5.5 GHz BAND

BANDEDGE (WORST CASE: 802.11be EHT160 / 5570 MHz / SU)

HORIZONTAL PEAK DATA



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dB/m)	10dB_Path Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72501	47.43	Pk	35	-19.5	0	62.93	68.2	-5.27	309	237	H
2	5.72557	50.29	Pk	35	-19.5	0	65.79	68.2	-2.41	309	237	H

Pk - Peak detector