



CERTIFICATION TEST REPORT

Report Number. : 4790089631-E7V3

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

Model : SM-S908B/DS

FCC ID : A3LSMS908B

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

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E
6 GHz LOW POWER INDOOR CLIENT (6XD)

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ACCREDITED

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TL-637

Revision History

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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, NFC WPT and UWB

MODEL NUMBER: SM-S908B/DS

SERIAL NUMBER: R3CR80AAZJJ, R3CR80AAZER (CONDUCTED);
R3CR706LYYK, 572cf07c7e3f7ece, 575854c0513f7ece (RADIATED);

DATE TESTED: 2021-09-27 ~ 2021-10-29;

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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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 987594 D02 U-NII 6 GHz EMC Measurement v01v01
5. KDB 662911 D01 v02r01
6. ANSI C63.10-2013.

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
☒ Chamber 2
☒ Chamber 3

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:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.02 dB
Radiated Disturbance, 30 MHz to 1 GHz	4.05 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.78 dB
Radiated Disturbance, 18 GHz to 40 GHz	5.58 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 Procedure 2, Clause 4.4.3 in IEC Guide 115:2007.

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, NFC, WPT, and UWB. This test report addresses the NII (WLAN) operational mode.

WiFi operating mode

Frequency rage	Mode	ANT1	ANT2
6GHz (5955 MHz ~ 7115 MHz)	802.11a SISO	TX/RX	TX/RX
	802.11a MIMO	TX/RX	TX/RX
	802.11ax SISO	TX/RX	TX/RX
	802.11ax MIMO	TX/RX	TX/RX

Simultaneous TX Condition

Please refer to the report '4790089631-E6 FCC Report UNII(a,n,ac,ax) WLAN'
6E Tx power is lower than 5GHz. Therefore, 5GHz set for final test.

Test RU offset for tones in each modes

Mode	Tones	RU offset
HE20	26T	0
		4
		8
	52T	37
		38
		40
	106T	53
	242T / SU ^{Note 1}	54
HE40	26T	61 / -
		0
		9
	52T	17
		37
		41
	106T	44
		53
		54
	242T	56
		61
		62
HE80 / HE160 ^{Note2}	26T	63 / -
		484T / SU ^{Note 1}
		0
	52T	18
		36
		37
	106T	45
		52
		53
	242T	57
		60
		61
	484T	62
		64
		65
	996T / SU ^{Note1}	66
		67 / -

Note 1: Full RU(Resource Unit) 242T 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.

Note 2: HE160 = HE80(Lower) + HE80(Upper)

MAXIMUM OUTPUT POWER

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

Band	Frequency Range [MHz]	Mode	Output Power [dBm]	Output Power [mW]
UNII-5	5955 – 6415	802.11a MIMO	10.65	11.61
		802.11ax(HE20) MIMO	10.97	12.50
		802.11ax(HE40) MIMO	11.49	14.09
		802.11ax(HE80) MIMO	11.59	14.42
		802.11ax(HE160) MIMO	12.26	16.83
UNII-6	6435 – 6515	802.11a MIMO	10.80	12.02
		802.11ax(HE20) MIMO	11.50	14.13
		802.11ax(HE40) MIMO	11.15	13.03
		802.11ax(HE80) MIMO	11.73	14.89
		802.11ax(HE160) MIMO	11.83	15.24
UNII-7	6535 – 6875	802.11a MIMO	10.65	11.61
		802.11ax(HE20) MIMO	11.18	13.12
		802.11ax(HE40) MIMO	11.31	13.52
		802.11ax(HE80) MIMO	11.88	15.42
		802.11ax(HE160) MIMO	12.23	16.71
UNII-8	6895 - 7115	802.11a MIMO	11.09	12.85
		802.11ax(HE20) MIMO	11.76	15.00
		802.11ax(HE40) MIMO	11.68	14.72
		802.11ax(HE80) MIMO	11.98	15.78
		802.11ax(HE160) MIMO	11.95	15.67

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:

Frequency Band [MHz]	ANT1 Gain [dBi]	ANT2 Gain [dBi]	Correlated Chains Directional Gain [dBi]
UNII 5 5925 – 6425	-8.11	-7.40	-4.74
UNII 6 6425 – 6525	-7.18	-7.84	-4.49
UNII 7 6525 – 6875	-5.91	-7.71	-3.75
UNII 8 6875 - 7125	-4.64	-8.09	-3.18

“LDS” and “Metal” as indicated in antenna specification are written as ANT 1 and ANT 2 in this report.

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 = $10 \log[(10^{-3.5/20} + 10^{-7.1/20})^2 / 2] = -2.1$ dBi

5.3. WORST-CASE CONFIGURATION AND MODE

Radiated emission below 1GHz and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

Radiated emission above 1GHz was performed with the EUT set to transmit low/mid/high channels.

- Worst case condition

ANT1	ANT2	ANT ALL
Axis	Axis	Axis
Z	Z	Z

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

802.11a mode: 6 Mbps 2Tx	802.11ax HE20 mode: MCS0 2Tx
	802.11ax HE40 mode: MCS0 2Tx
	802.11ax HE80 mode: MCS0 2Tx

Radiation test for 802.11a & ax HE20 & HE40 & HE80 were evaluated at MIMO mode.

Note : All radiated and power line conducted tests were performed connected with charger for evaluation of worst case mode.

Worst-case selection criteria for 802.11ax test items :

- For the 26dB Bandwidth, it was tested at the SU Mode for each bandwidth. (Worst case)

Note : All radiated and power line conducted tests were performed connected with charger for evaluation of worst case mode.

Test case configuration for 802.11a, 802.11ax HE20 & 40 & 80 (SU) modes :

Mode	Band	SISO Target[dBm]		MIMO Target[dBm]	
		802.11a	802.11ax (SU)	802.11a	802.11ax (SU)
5GHz (20 MHz)	UNII-5			11	11
	UNII-6			11	11
	UNII-7			11	11
	UNII-8			11	11
5GHz (40 MHz)	UNII-5				12
	UNII-6				12
	UNII-7				12
	UNII-8				12
5GHz (80 MHz)	UNII-5				12
	UNII-6				12
	UNII-7				12
	UNII-8				12
5GHz (160 MHz)	UNII-5				12
	UNII-6				12
	UNII-7				12
	UNII-8				12

	Band-Edge & Spurious Emission
	Spurious Emission
	Spurious Emission Spot check

Note. SISO mode is not supported.

Test case configuration for 802.11ax HE20 & 40 & 80 (RU) modes :

Band	Mode	Freq.	Tone	RU offset	Test Case			
					ANT1	ANT2	MIMO	
UNII-5	HE20	5955	26 T	0				
				4				
				8				
		6175		0	-	-	-	
				4	-	-	O	
				8	-	-	-	
	6415			0				
				4				
				8				
	HE40	5695	242 T	61				
				62				
				61	-	-	-	
	6165			62	-	-	O	
				61				
				62				
	6405			61				
				62				
				61				
	HE80	5985	242 T	61				
				62				
				64				
		6145		61	-	-	-	
				62	-	-	O	
				64	-	-	-	
6385			61					
			62					
			64					
HE160	6025	242 T	61L					
			61U					
			64U					
	6185		61L	-	-	-		
			61U	-	-	-		
			64U	-	-	O		
6345			61L					
			61U					
			64U					
UNII-6	HE40	6445	242 T	61	-	-	O	
		62		-	-	-		
		6525		61				
		62						
UNII-7	HE40	6565	242 T	61				
		62						
		61						
		62						
		6685		61	-	-	-	
		6845		62	-	-	O	
					61			
					62			
UNII-8	HE40	6885	242 T	61				
		62						
		61		-	-	O		
		62		-	-	-		
		6965		61				
		7185		62				

Note1. Radiated spurious test was performed on [HE20: 26T, HE40/HE80/HE160: 242T] with worst condition.
Note2. Spot-check test was performed on HE20, HE40, HE80, HE160.

5.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37N9BV0382HM3	N/A
Data Cable	SAMSUNG	EP-DN980BBE	N/A	N/A

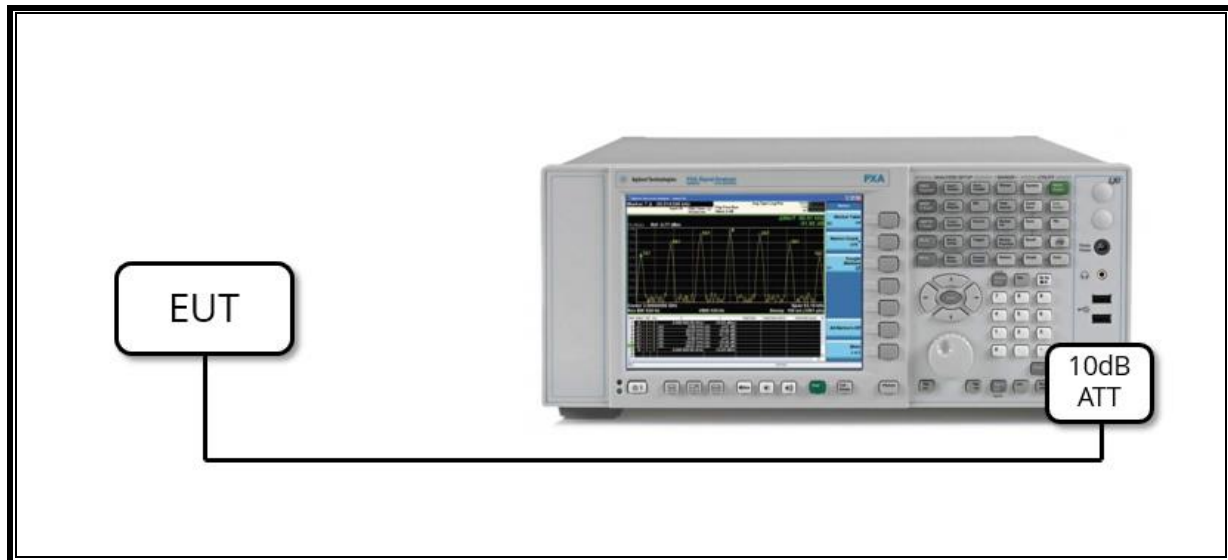
I/O CABLE

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

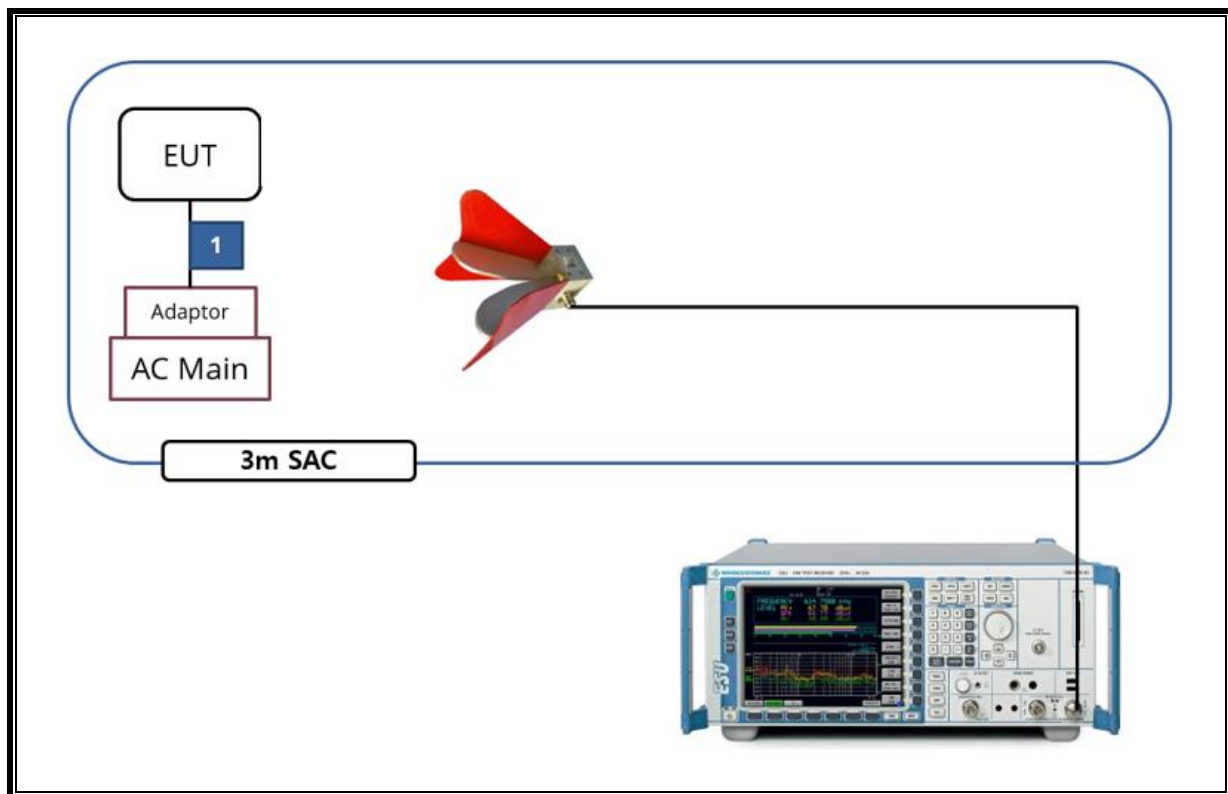
TEST SETUP

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	VULB9163	750	2022/08/19
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	2022/08/13
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	2022/08/13
Antenna, Horn, 18 GHz	ETS	3115	00167211	2022/07/27
Antenna, Horn, 18 GHz	ETS	3115	00161451	2022/08/15
Antenna, Horn, 18 GHz	ETS	3117	00168724	2022/07/27
Antenna, Horn, 18 GHz	ETS	3117	00168717	2022/08/15
Antenna, Horn, 18 GHz	ETS	3117	00218957	2023/01/15
Antenna, Horn, 40 GHz	ETS	3116C	00166155	2023/01/15
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2023-10-13
Preamplifier	ETS	3116C-PA	00168841	2022/08/04
Preamplifier, 1000 MHz	Sonoma	310N	341282	2022/08/02
Preamplifier, 1000 MHz	Sonoma	310N	351741	2022/08/02
Preamplifier, 1000 MHz	Sonoma	310N	370599	2022/08/02
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	2022/08/02
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	2022/08/02
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029168	2022/08/02
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2022/08/04
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	2022/08/04
Average Power Sensor	Agilent / HP	U2000	MY54270007	2022/08/04
Average Power Sensor	Agilent / HP	U2000	MY54260010	2022/08/04
Attenuator	PASTERNAK	PE7087-10	A001	2022/08/03
Attenuator	PASTERNAK	PE7087-10	A008	2022/08/03
Attenuator	PASTERNAK	PE7004-10	2	2022/08/02
Attenuator	PASTERNAK	PE7087-10	A009	2022/08/03
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2022/08/02
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2022/08/02
EMI Test Receive, 3 GHz	R&S	ESR3	101832	2022/08/02
Notch Filter	Micro-Tronics	BRM50702-02	G037	2022/08/03
Notch Filter	Micro-Tronics	BRM50716-2	006	2022/08/02
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	009	2022/08/02
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	015	2022/08/02
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	019	2022/08/02
High Pass Filter 3GHz	Micro-Tronics	HPM17543	010	2022/08/02
High Pass Filter 3GHz	Micro-Tronics	HPM17543	015	2022/08/02
High Pass Filter 3GHz	Micro-Tronics	HPM17543	020	2022/08/02
High Pass Filter 6GHz	Micro-Tronics	HPS17542	009	2022/08/02
High Pass Filter 6GHz	Micro-Tronics	HPS17542	016	2022/08/02
High Pass Filter 6GHz	Micro-Tronics	HPS17542	020	2022/08/02
LISN	R&S	ENV-216	101837	2022/08/05
Termination	WEINSCHL	M1406A	T09	2022/08/03
Attenuator	WEINSCHL	WA76-30-21	A015	2022/08/03
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(a)(10)	26dB Bandwidth	The maximum transmitter channel bandwidth for U-NII device in the 5.925 – 7.125 GHz band is 320 MHz	Conducted	PASS
2.1046 15.407(a)(1)	TX Cond. Power	N/A		PASS
15.407(a)(8)	Maximum Power Spectral Density	< -1dBm/MHz e.i.r.p		PASS
15.407(a)(8)	Maximum Radiated Output Power	< 24 dBm over the frequency band of operation		PASS
15.407(b)(7)	In-band Emissions	EUT must meet the limits detailed in 15.407(b)(7)		PASS
15.407(d)(6)	Contention Based Protocol	EUT must detect AWGN signal with 90% (or better) certainty		PASS
15.407(b)(9)	AC Power Line conducted emissions	< FCC 15.207 limits		PASS
15.407(b)(6)	Undesirable Emissions	< -27 dBm/MHz e.i.r.p outside of the 5.925 – 7.125 GHz Band	Radiated	PASS
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS

8. MEASUREMENT METHODS

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

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

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

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

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

In-Band Emissions : KDB 987594 D02

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

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

AC Power Line Conducted Emission : ANSI C63.10-2013, 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	2.728	2.827	0.965	96.498	0.15

Mode	ANT.	Tone	On Time [ms]	Period [ms]	Duty Cycle X [Linear]	Duty Cycle X [%]	Duty Cycle Correction Factor[dB]
802.11ax HE20	MIMO	26T	5.151	5.252	0.98	98.08	-
		52T	4.951	5.054	0.98	97.96	0.09
		106T	2.371	2.472	0.96	95.91	0.18
		SU	1.014	1.114	0.91	91.02	0.41
802.11ax HE40	MIMO	26T	5.125	5.252	0.98	97.58	0.11
		52T	4.926	5.054	0.97	97.47	0.11
		106T	2.366	2.498	0.95	94.72	0.24
		242T	1.075	1.177	0.91	91.33	0.39
		SU	1.003	1.104	0.91	90.85	0.42
802.11ax HE80	MIMO	26T	5.112	5.247	0.97	97.43	0.11
		52T	4.929	5.054	0.98	97.53	0.11
		106T	2.370	2.475	0.96	95.76	0.19
		242T	1.070	1.172	0.91	91.30	0.40
		484T	1.065	1.167	0.91	91.26	0.40
		SU	1.399	1.501	0.93	93.20	0.31
802.11ax HE160	MIMO	26T	5.103	5.221	0.98	97.74	0.10
		52T	4.915	5.042	0.97	97.48	0.11
		106T	2.371	2.480	0.96	95.60	0.20
		242T	1.074	1.177	0.91	91.25	0.40
		484T	1.062	1.165	0.91	91.16	0.40
		996T	1.018	1.119	0.91	90.97	0.41
		SU	1.222	1.325	0.92	92.23	0.35

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

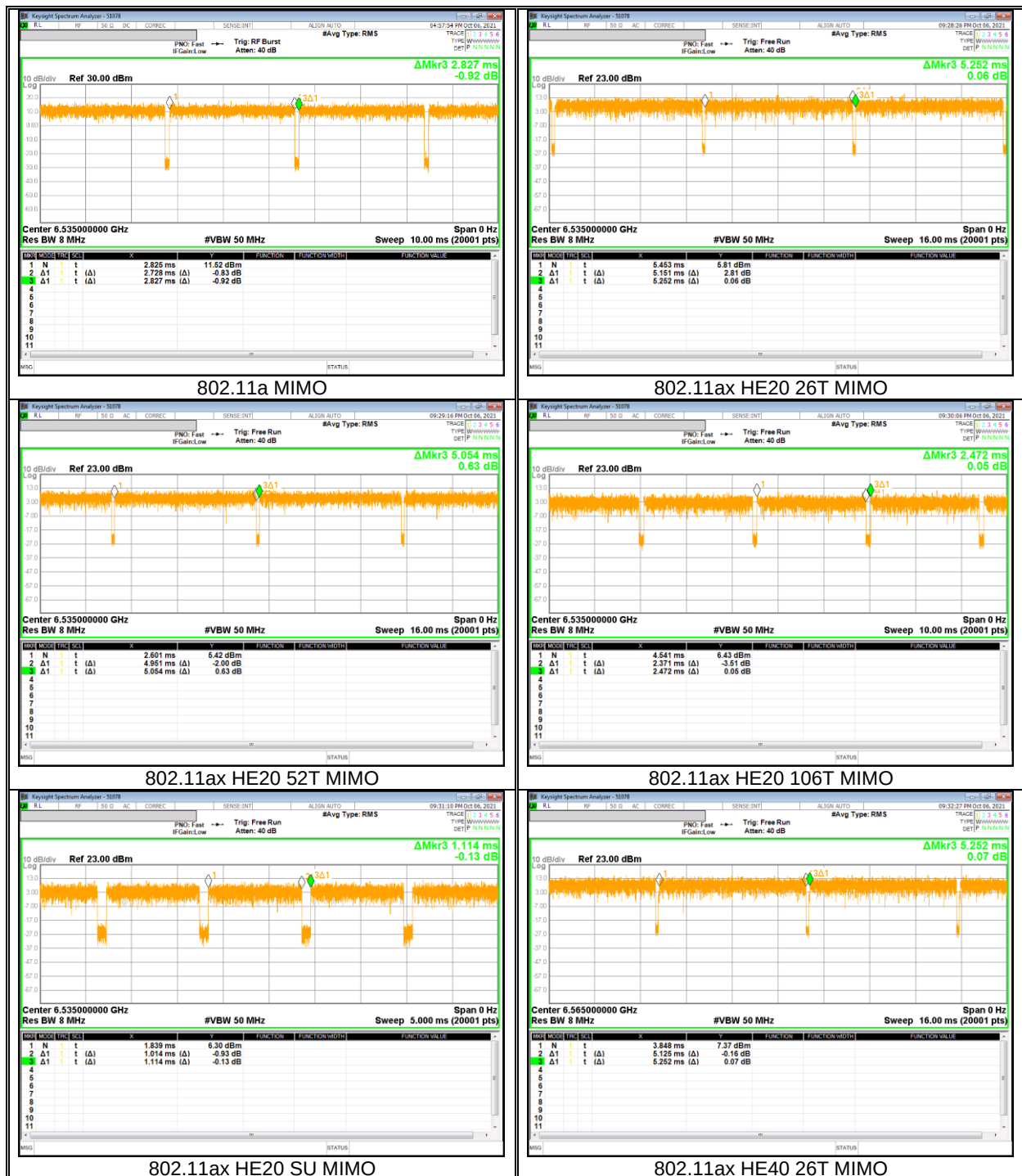
LIMITS

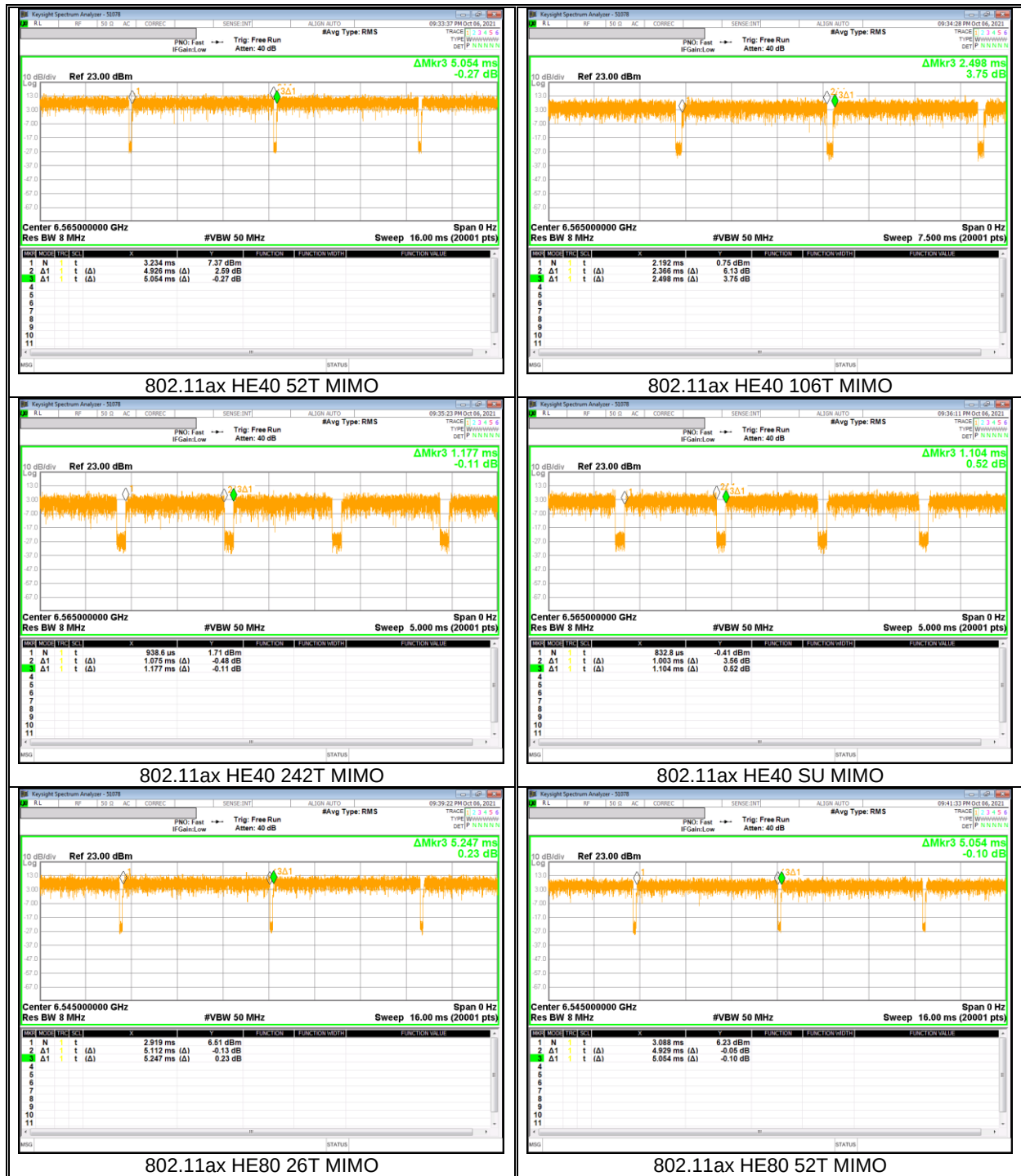
None; for reporting purposes only.

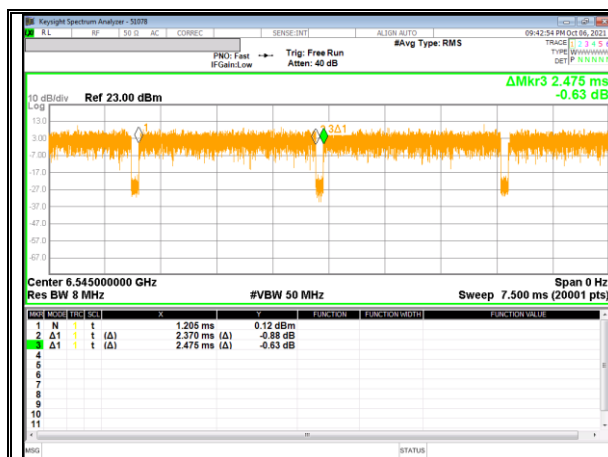
PROCEDURE

KDB 789033 D02 v02r01 Zero-Span Spectrum Analyzer Method.

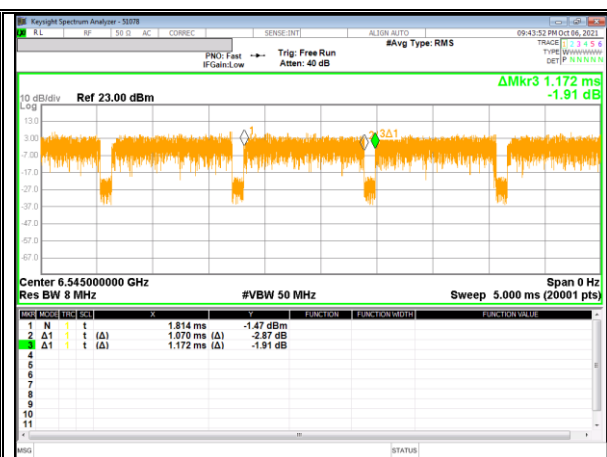
9.2. DUTY CYCLE PLOTS



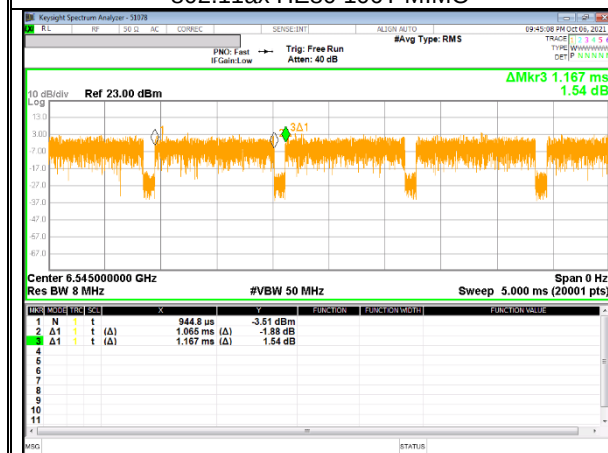




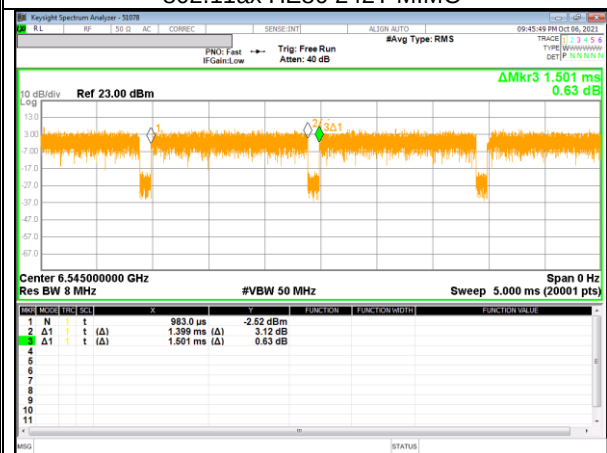
802.11ax HE80 106T MIMO



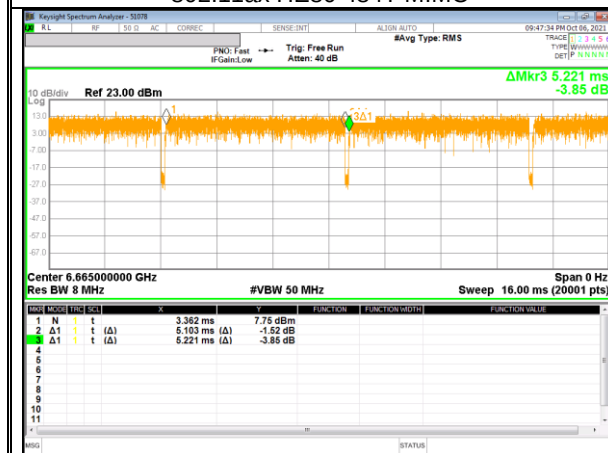
802.11ax HE80 242T MIMO



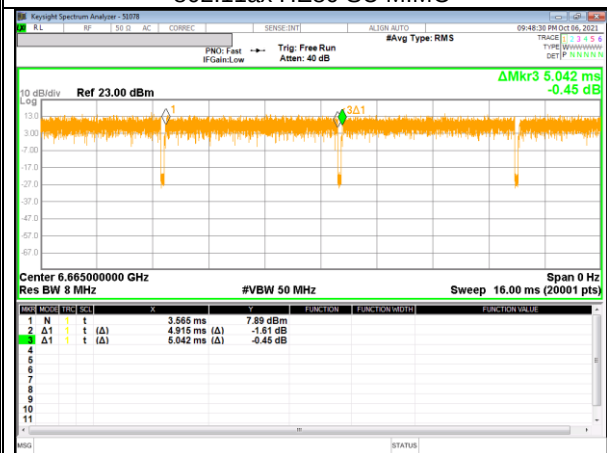
802.11ax HE80 484T MIMO



802.11ax HE80 SU MIMO



802.11ax HE160 26T MIMO



802.11ax HE160 52T MIMO



9.3. 26 dB BANDWIDTH

LIMITS

FCC §15.407 (a) (10)

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

TEST PROCEDURE

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

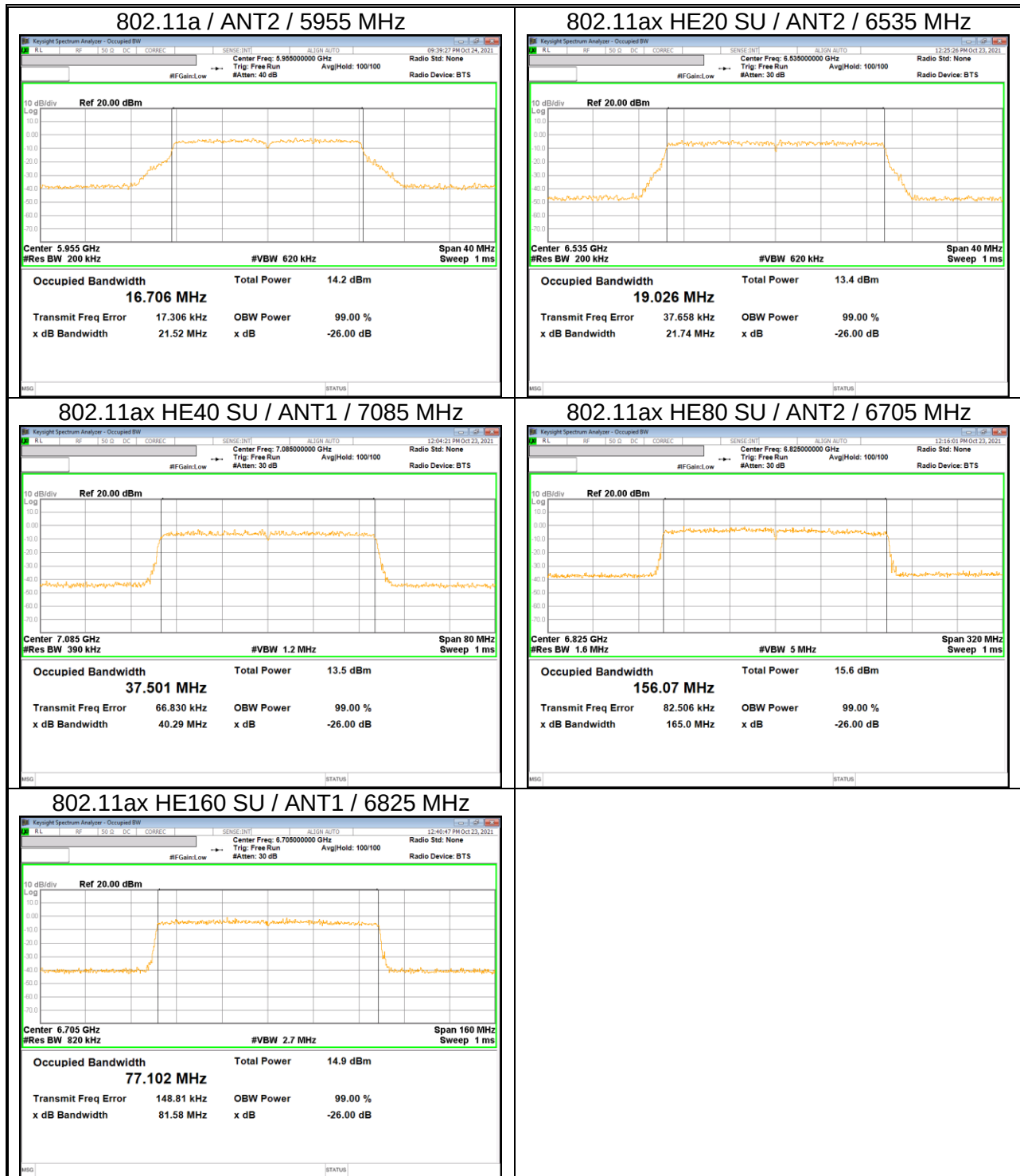
RESULTS

- Please refer to the next page

Note. As a result of 99% bandwidth test, the bandwidth not interfere each band.

WORST CASE TEST PLOTS

- Please refer to the next page



9.3.1. 802.11a

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			ANT1	ANT2		ANT1	ANT2
UNII-5	1	5955	21.18	21.52	21.52	16.747	16.706
	45	6175	21.31	21.15		16.762	16.726
	93	6415	21.22	20.95		16.762	16.740
UNII-6	97	6435	21.15	21.07	21.50	16.709	16.676
	105	6475	21.50	21.42		16.706	16.663
	113	6515	21.24	21.03		16.699	16.681
UNII-7	117	6535	21.19	21.11	21.34	16.710	16.729
	149	6695	21.22	20.95		16.674	16.694
	185	6875	21.34	21.33		16.725	16.728
UNII-8	189	6895	21.15	21.13	21.29	16.729	16.644
	209	6995	21.29	20.90		16.698	16.702
	233	7115	21.06	21.24		16.709	16.698

9.3.2. 802.11ax HE20

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			ANT1	ANT2		ANT1	ANT2
UNII-5	1	5955	21.19	21.18	21.43	18.989	19.008
	45	6175	21.34	21.43		19.069	19.007
	93	6415	21.22	21.30		19.025	19.079
UNII-6	97	6435	21.44	21.31	21.54	19.120	18.990
	105	6475	21.34	21.26		19.031	19.039
	113	6515	21.54	21.46		19.013	19.015
UNII-7	117	6535	21.24	21.74	21.74	18.989	19.026
	149	6695	21.39	21.49		18.986	18.995
	185	6875	21.27	21.49		19.004	18.966
UNII-8	189	6895	21.35	21.18	21.37	19.034	19.050
	209	6995	21.07	21.20		18.997	18.995
	233	7115	21.37	21.43		18.984	19.037

9.3.3. 802.11ax HE40

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			ANT1	ANT2		ANT1	ANT2
UNII-5	3	5965	40.06	39.68	40.06	37.541	37.575
	43	6165	39.62	39.41		37.465	37.536
	91	6405	40.00	39.68		37.542	37.632
UNII-6	99	6445	39.84	39.51	39.84	37.508	37.612
	115	6525	39.70	39.65		37.581	37.518
UNII-7	123	6565	39.72	39.79	40.20	37.520	37.608
	147	6685	40.20	39.80		37.578	37.619
	179	6845	39.74	39.79		37.615	37.596
UNII-8	187	6885	40.03	39.71	40.29	37.604	37.570
	203	6965	39.79	39.84		37.546	37.689
	227	7085	40.29	39.70		37.501	37.617

9.3.4. 802.11ax HE80

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			ANT1	ANT2		ANT1	ANT2
UNII-5	7	5985	80.91	81.17	81.17	77.089	76.853
	39	6145	80.66	81.15		77.089	77.146
	87	6385	81.15	80.92		77.130	77.058
UNII-6	103	6465	80.67	80.82	80.82	76.990	77.028
UNII-7	119	6545	80.69	80.83	81.58	77.053	77.069
	151	6705	81.17	81.58		77.009	77.102
	183	6865	80.54	80.77		77.126	76.922
UNII-8	199	6945	80.59	80.57	81.04	77.168	76.996
	215	7025	81.04	80.65		76.940	77.094

9.3.5. 802.11ax HE160

Band	Channel	Center Freq. [MHz]	26 dB BW [MHz]		Worst	99% BW [MHz]	
			ANT1	ANT2		ANT1	ANT2
UNII-5	15	6025	164.10	163.90	164.10	156.02	156.19
	47	6185	163.70	163.40		156.18	155.96
	79	6345	163.20	163.70		155.89	156.18
UNII-6	111	6505	164.20	163.60	164.20	156.41	155.98
UNII-7	143	6665	163.90	164.10	165.00	156.16	156.24
	175	6825	165.00	162.90		156.07	156.10
UNII-8	207	6985	164.10	163.20	164.10	156.28	156.32

10. ANTENNA PORT TEST RESULTS

10.1. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (8)

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

TEST PROCEDURE

KDB 789033 Method PM is used for output power.

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

DIRECTIONAL ANTENNA GAIN

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

Frequency Band [MHz]	ANT1 Gain [dBi]	ANT2 Gain [dBi]	Correlated Chains Directional Gain [dBi]
UNII 5 5925 – 6425	-8.11	-7.40	-4.74
UNII 6 6425 – 6525	-7.18	-7.84	-4.49
UNII 7 6525 – 6875	-5.91	-7.71	-3.75
UNII 8 6875 - 7125	-4.64	-8.09	-3.18

10.1.1. 802.11a MODE

Output Power Results

Band	Channel	Freq. [MHz]	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
			ANT1	ANT2	MIMO			
UNII-5	1	5955	7.31	6.85	10.10	-4.74	5.36	24.00
	45	6175	7.72	7.55	10.65	-4.74	5.91	
	93	6415	7.24	7.62	10.44	-4.74	5.70	
UNII-6	97	6435	7.10	8.38	10.80	-4.49	6.31	
	105	6475	6.68	8.11	10.46	-4.49	5.97	
	113	6515	7.12	8.18	10.69	-4.49	6.20	
UNII-7	117	6535	7.24	7.82	10.55	-3.75	6.80	
	149	6695	7.15	7.52	10.35	-3.75	6.60	
	185	6875	7.28	7.98	10.65	-3.75	6.90	
UNII-8	189	6895	8.06	8.09	11.09	-3.18	7.91	
	209	6995	8.04	8.01	11.04	-3.18	7.86	
	233	7115	7.60	7.26	10.44	-3.18	7.26	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

PSD Results

Band	Channel	Freq. [MHz]	Meas PSD [dBm/MHz]			DCCF	Direct. Gain [dBi]	Corr'd PSD e.i.r.p [dBm]	PSD e.i.r.p Limit [dBm/MHz]
			ANT1	ANT2	MIMO				
UNII-5	1	5955	-4.765	-4.547	-1.644	0.15	-4.74	-6.234	-1.00
	45	6175	-3.487	-2.903	-0.175	0.15	-4.74	-4.765	
	93	6415	-2.425	-2.221	0.688	0.15	-4.74	-3.902	
UNII-6	97	6435	-3.037	-1.686	0.701	0.15	-4.49	-3.639	
	105	6475	-2.968	-1.927	0.594	0.15	-4.49	-3.746	
	113	6515	-2.998	-2.018	0.530	0.15	-4.49	-3.810	
UNII-7	117	6535	-2.737	-2.254	0.522	0.15	-3.75	-3.078	
	149	6695	-3.071	-2.553	0.206	0.15	-3.75	-3.394	
	185	6875	-3.334	-2.406	0.165	0.15	-3.75	-3.435	
UNII-8	189	6895	-2.327	-2.006	0.847	0.15	-3.18	-2.183	
	209	6995	-2.074	-1.977	0.985	0.15	-3.18	-2.045	
	233	7115	-2.504	-5.308	-0.673	0.15	-3.18	-3.703	

Corr'd PSD e.i.r.p = ANT1 Meas PSD + Ant2 Meas PSD + DCCF + Directional Gain

10.1.2. 802.11ax HE20 MODE

Output Power Results

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-5	1	5955	26T	0	-2.25	-2.14	0.82	-4.74	-3.92	24.00
				4	-2.29	-1.69	1.03	-4.74	-3.71	
				8	-2.03	-1.56	1.22	-4.74	-3.52	
			52T	37	0.15	0.92	3.56	-4.74	-1.18	
				38	0.65	1.20	3.94	-4.74	-0.80	
				40	0.82	1.15	4.00	-4.74	-0.74	
			106T	53	3.65	3.05	6.37	-4.74	1.63	
				54	3.92	3.34	6.65	-4.74	1.91	
			SU	-	7.54	6.92	10.25	-4.74	5.51	
	45	6175	26T	0	-2.24	-1.52	1.15	-4.74	-3.59	
				4	-1.74	-1.34	1.47	-4.74	-3.27	
				8	-2.11	-1.89	1.01	-4.74	-3.73	
			52T	37	0.98	1.68	4.35	-4.74	-0.39	
				38	1.12	1.33	4.24	-4.74	-0.50	
				40	0.87	1.41	4.16	-4.74	-0.58	
			106T	53	3.64	3.68	6.67	-4.74	1.93	
				54	3.87	3.68	6.79	-4.74	2.05	
			SU	-	7.87	7.83	10.86	-4.74	6.12	
	93	6415	26T	0	-1.92	-1.18	1.48	-4.74	-3.26	
				4	-2.15	-1.57	1.16	-4.74	-3.58	
				8	-2.21	-1.41	1.22	-4.74	-3.52	
			52T	37	0.46	0.73	3.61	-4.74	-1.13	
				38	0.87	1.16	4.03	-4.74	-0.71	
				40	0.58	1.56	4.11	-4.74	-0.63	
			106T	53	4.06	3.70	6.89	-4.74	2.15	
				54	3.91	3.92	6.93	-4.74	2.19	
			SU	-	7.80	8.12	10.97	-4.74	6.23	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-6	97	6435	26T	0	-2.61	-1.05	1.25	-4.49	-3.24	24.00
				4	-2.21	-0.93	1.49	-4.49	-3.00	
				8	-2.15	-0.62	1.69	-4.49	-2.80	
			52T	37	0.84	2.16	4.56	-4.49	0.07	
				38	1.05	2.02	4.57	-4.49	0.08	
				40	0.34	1.78	4.13	-4.49	-0.36	
			106T	53	3.56	4.28	6.95	-4.49	2.46	
				54	3.56	4.25	6.93	-4.49	2.44	
			SU	-	7.96	8.96	11.50	-4.49	7.01	
	105	6475	26T	0	-2.46	-1.21	1.22	-4.49	-3.27	
				4	-2.51	-0.81	1.43	-4.49	-3.06	
				8	-2.48	-1.24	1.19	-4.49	-3.30	
			52T	37	0.78	2.16	4.53	-4.49	0.04	
				38	0.68	2.08	4.45	-4.49	-0.04	
				40	0.56	1.97	4.33	-4.49	-0.16	
			106T	53	3.88	4.43	7.17	-4.49	2.68	
				54	3.71	4.27	7.01	-4.49	2.52	
			SU	-	7.58	8.58	11.12	-4.49	6.63	
	113	6515	26T	0	-1.84	-0.90	1.67	-4.49	-2.82	
				4	-2.26	-1.11	1.36	-4.49	-3.13	
				8	-2.34	-0.98	1.40	-4.49	-3.09	
			52T	37	0.33	1.93	4.21	-4.49	-0.28	
				38	0.46	1.84	4.21	-4.49	-0.28	
				40	0.73	1.83	4.33	-4.49	-0.16	
			106T	53	3.62	4.07	6.86	-4.49	2.37	
				54	3.76	4.21	7.00	-4.49	2.51	
			SU	-	7.56	8.43	11.03	-4.49	6.54	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-7	117	6535	26T	0	-2.47	-1.41	1.10	-3.75	-2.65	24.00
				4	-2.58	-1.28	1.13	-3.75	-2.62	
				8	-2.41	-1.04	1.34	-3.75	-2.41	
			52T	37	0.68	1.58	4.16	-3.75	0.41	
				38	0.47	1.76	4.17	-3.75	0.42	
				40	0.53	1.63	4.13	-3.75	0.38	
			106T	53	3.72	4.13	6.94	-3.75	3.19	
				54	3.51	3.98	6.76	-3.75	3.01	
			SU	-	7.88	8.45	11.18	-3.75	7.43	
	149	6695	26T	0	-2.05	-1.36	1.32	-3.75	-2.43	
				4	-2.44	-1.39	1.13	-3.75	-2.62	
				8	-2.32	-1.26	1.25	-3.75	-2.50	
			52T	37	0.76	1.81	4.33	-3.75	0.58	
				38	0.63	1.97	4.36	-3.75	0.61	
				40	0.75	1.86	4.35	-3.75	0.60	
			106T	53	3.87	4.05	6.97	-3.75	3.22	
				54	3.68	4.18	6.95	-3.75	3.20	
			SU	-	7.75	7.96	10.87	-3.75	7.12	
	185	6875	26T	0	-2.46	-1.06	1.31	-3.75	-2.44	
				4	-2.12	-0.95	1.51	-3.75	-2.24	
				8	-2.21	-1.02	1.44	-3.75	-2.31	
			52T	37	0.43	1.95	4.27	-3.75	0.52	
				38	0.74	2.30	4.60	-3.75	0.85	
				40	0.65	2.15	4.47	-3.75	0.72	
			106T	53	4.06	4.64	7.37	-3.75	3.62	
				54	3.83	4.46	7.17	-3.75	3.42	
			SU	-	8.01	8.25	11.14	-3.75	7.39	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-8	189	6895	26T	0	-2.44	-1.16	1.26	-3.18	-1.92	24.00
				4	-2.19	-0.81	1.56	-3.18	-1.62	
				8	-2.26	-1.04	1.40	-3.18	-1.78	
			52T	37	0.56	2.03	4.37	-3.18	1.19	
				38	1.03	2.47	4.82	-3.18	1.64	
				40	0.34	2.11	4.32	-3.18	1.14	
			106T	53	3.73	4.33	7.05	-3.18	3.87	
				54	3.92	4.54	7.25	-3.18	4.07	
			SU	-	8.88	8.61	11.76	-3.18	8.58	
	209	6995	26T	0	-1.63	-1.31	1.54	-3.18	-1.64	
				4	-1.98	-1.22	1.43	-3.18	-1.75	
				8	-1.28	-1.02	1.86	-3.18	-1.32	
			52T	37	1.42	1.82	4.63	-3.18	1.45	
				38	1.63	2.05	4.86	-3.18	1.68	
				40	1.28	1.96	4.64	-3.18	1.46	
			106T	53	4.57	4.14	7.37	-3.18	4.19	
				54	5.06	4.39	7.75	-3.18	4.57	
			SU	-	8.55	8.28	11.43	-3.18	8.25	
	233	7115	26T	0	-1.89	-1.84	1.15	-3.18	-2.03	
				4	-2.05	-1.47	1.26	-3.18	-1.92	
				8	-1.95	-1.64	1.22	-3.18	-1.96	
			52T	37	0.77	1.43	4.12	-3.18	0.94	
				38	1.04	1.23	4.15	-3.18	0.97	
				40	0.81	1.56	4.21	-3.18	1.03	
			106T	53	2.65	2.77	5.72	-3.18	2.54	
				54	2.81	2.69	5.76	-3.18	2.58	
			SU	-	2.78	2.92	5.86	-3.18	2.68	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

PSD Results

Band	Channel	Freq. [MHz]	Tones	RU offset	Meas PSD [dBm/MHz]			DCCF	Direct. Gain [dBi]	Corr'd PSD e.i.r.p [dBm]	PSD e.i.r.p Limit [dBm/MHz]
					ANT1	ANT2	MIMO				
UNII-5	1	5955	26T	0	-5.357	-4.336	-1.806	-	-4.74	-6.546	-1.00
				4	-5.064	-5.056	-2.050	-	-4.74	-6.790	
				8	-4.025	-4.482	-1.237	-	-4.74	-5.977	
			SU	-	-4.425	-5.491	-1.915	0.41	-4.74	-6.245	
	45	6175	26T	0	-4.868	-3.706	-1.238	-	-4.74	-5.978	
				4	-5.402	-4.764	-2.061	-	-4.74	-6.801	
				8	-4.843	-3.938	-1.357	-	-4.74	-6.097	
			SU	-	-3.759	-3.530	-0.633	0.41	-4.74	-4.963	
	93	6415	26T	0	-5.481	-3.584	-1.419	-	-4.74	-6.159	
				4	-5.684	-4.494	-2.038	-	-4.74	-6.778	
				8	-5.014	-3.716	-1.306	-	-4.74	-6.046	
			SU	-	-4.199	-3.739	-0.953	0.41	-4.74	-5.283	
UNII-6	97	6435	26T	0	-4.898	-3.393	-1.070	-	-4.49	-5.560	
				4	-5.044	-4.737	-1.877	-	-4.49	-6.367	
				8	-4.144	-3.644	-0.877	-	-4.49	-5.367	
			SU	-	-3.460	-3.536	-0.488	0.41	-4.49	-4.568	
	105	6475	26T	0	-3.645	-3.878	-0.750	-	-4.49	-5.240	
				4	-4.898	-3.732	-1.266	-	-4.49	-5.756	
				8	-4.280	-3.348	-0.779	-	-4.49	-5.269	
			SU	-	-3.882	-3.066	-0.445	0.41	-4.49	-4.525	
	113	6515	26T	0	-4.132	-3.924	-1.016	-	-4.49	-5.506	
				4	-4.779	-4.703	-1.731	-	-4.49	-6.221	
				8	-3.879	-3.592	-0.723	-	-4.49	-5.213	
			SU	-	-3.952	-3.086	-0.487	0.41	-4.49	-4.567	
UNII-7	117	6535	26T	0	-3.981	-3.899	-0.930	-	-3.75	-4.680	
				4	-4.742	-5.026	-1.871	-	-3.75	-5.621	
				8	-4.072	-4.105	-1.078	-	-3.75	-4.828	
			SU	-	-3.655	-3.513	-0.573	0.41	-3.75	-3.913	
	149	6695	26T	0	-4.111	-3.876	-0.982	-	-3.75	-4.732	
				4	-4.870	-4.948	-1.899	-	-3.75	-5.649	
				8	-3.970	-3.854	-0.901	-	-3.75	-4.651	
			SU	-	-4.282	-3.402	-0.809	0.41	-3.75	-4.149	
	185	6875	26T	0	-4.259	-3.880	-1.055	-	-3.75	-4.805	
				4	-4.841	-4.738	-1.779	-	-3.75	-5.529	
				8	-3.657	-3.817	-0.726	-	-3.75	-4.476	
			SU	-	-3.773	-3.229	-0.482	0.41	-3.75	-3.822	
UNII-8	189	6895	26T	0	-3.074	-3.279	-0.165	-	-3.18	-3.345	
				4	-3.581	-4.501	-1.006	-	-3.18	-4.186	
				8	-3.049	-3.368	-0.195	-	-3.18	-3.375	
			SU	-	-3.042	-2.979	0.000	0.41	-3.18	-2.770	
	209	6995	26T	0	-3.104	-3.956	-0.499	-	-3.18	-3.679	
				4	-4.100	-4.843	-1.445	-	-3.18	-4.625	
				8	-3.013	-3.978	-0.458	-	-3.18	-3.638	
			SU	-	-3.509	-3.421	-0.454	0.41	-3.18	-3.224	
	233	7115	26T	0	-3.912	-4.289	-1.086	-	-3.18	-4.266	
				4	-4.488	-5.190	-1.815	-	-3.18	-4.995	
				8	-3.457	-4.374	-0.881	-	-3.18	-4.061	
			SU	-	-9.606	-8.509	-6.013	0.41	-3.18	-8.783	

* Corr'd PSD e.i.r.p = ANT1 Meas PSD + Ant2 Meas PSD + DCCF + Directional Gain

10.1.3. 802.11ax HE40 MODE

Output Power Results

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-5	3	5965	26T	0	-2.47	-2.66	0.45	-4.74	-4.29	24.00
				9	-2.02	-2.49	0.76	-4.74	-3.98	
				17	-2.04	-2.51	0.74	-4.74	-4.00	
			52T	37	0.33	0.28	3.32	-4.74	-1.42	
				41	0.71	0.66	3.70	-4.74	-1.04	
				44	1.19	0.43	3.84	-4.74	-0.90	
			106T	53	3.67	2.64	6.20	-4.74	1.46	
				54	4.55	3.23	6.95	-4.74	2.21	
				56	4.10	3.04	6.61	-4.74	1.87	
			242T	61	8.02	6.82	10.47	-4.74	5.73	
				62	8.37	7.48	10.96	-4.74	6.22	
			SU	-	8.64	7.56	11.14	-4.74	6.40	
	43	6165	26T	0	-1.64	-1.02	1.69	-4.74	-3.05	
				9	-1.22	-1.08	1.86	-4.74	-2.88	
				17	-1.53	-1.27	1.61	-4.74	-3.13	
			52T	37	0.80	1.67	4.27	-4.74	-0.47	
				41	0.63	1.17	3.92	-4.74	-0.82	
				44	0.65	0.54	3.61	-4.74	-1.13	
			106T	53	4.26	3.63	6.97	-4.74	2.23	
				54	5.23	4.59	7.93	-4.74	3.19	
				56	4.74	4.14	7.46	-4.74	2.72	
			242T	61	7.61	7.40	10.52	-4.74	5.78	
				62	7.61	7.90	10.77	-4.74	6.03	
			SU	-	8.69	7.97	11.36	-4.74	6.62	
	91	6405	26T	0	-1.92	-1.42	1.35	-4.74	-3.39	
				9	-1.32	-1.19	1.76	-4.74	-2.98	
				17	-1.92	-1.10	1.52	-4.74	-3.22	
			52T	37	1.54	2.09	4.83	-4.74	0.09	
				41	1.16	2.16	4.70	-4.74	-0.04	
				44	1.29	1.60	4.46	-4.74	-0.28	
			106T	53	3.95	3.62	6.80	-4.74	2.06	
				54	4.77	4.68	7.74	-4.74	3.00	
				56	4.36	4.16	7.27	-4.74	2.53	
			242T	61	8.41	8.29	11.36	-4.74	6.62	
				62	8.72	8.34	11.54	-4.74	6.80	
			SU	-	8.73	8.22	11.49	-4.74	6.75	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-6	99	6445	26T	0	-1.74	-1.16	1.57	-4.49	-2.92	24.00
				9	-1.74	-1.09	1.61	-4.49	-2.88	
				17	-2.72	-2.08	0.62	-4.49	-3.87	
			52T	37	1.11	1.89	4.53	-4.49	0.04	
				41	1.02	2.25	4.69	-4.49	0.20	
				44	1.09	1.47	4.29	-4.49	-0.20	
			106T	53	4.06	4.09	7.09	-4.49	2.60	
				54	4.53	4.62	7.59	-4.49	3.10	
				56	3.83	3.95	6.90	-4.49	2.41	
			242T	61	7.38	7.92	10.67	-4.49	6.18	
				62	7.31	7.96	10.66	-4.49	6.17	
			SU	-	8.18	7.81	11.01	-4.49	6.52	
	115	6525	26T	0	-1.86	-1.12	1.54	-4.49	-2.95	
				9	-1.61	-1.29	1.56	-4.49	-2.93	
				17	-1.85	-1.15	1.52	-4.49	-2.97	
			52T	37	1.33	2.05	4.72	-4.49	0.23	
				41	1.08	1.91	4.53	-4.49	0.04	
				44	1.09	1.37	4.24	-4.49	-0.25	
			106T	53	4.17	3.85	7.02	-4.49	2.53	
				54	4.53	4.52	7.54	-4.49	3.05	
				56	3.89	4.10	7.01	-4.49	2.52	
			242T	61	7.30	7.34	10.33	-4.49	5.84	
				62	7.62	7.68	10.66	-4.49	6.17	
			SU	-	8.35	7.91	11.15	-4.49	6.66	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-7	123	6565	26T	0	-1.74	-1.24	1.53	-3.75	-2.22	24.00
				9	-1.32	-1.26	1.72	-3.75	-2.03	
				17	-1.72	-1.36	1.47	-3.75	-2.28	
			52T	37	1.24	1.97	4.63	-3.75	0.88	
				41	1.10	1.76	4.45	-3.75	0.70	
				44	1.32	1.19	4.27	-3.75	0.52	
			106T	53	3.92	3.66	6.80	-3.75	3.05	
				54	4.85	4.31	7.60	-3.75	3.85	
				56	4.32	3.82	7.09	-3.75	3.34	
			242T	61	7.61	7.73	10.68	-3.75	6.93	
				62	7.38	7.59	10.50	-3.75	6.75	
			SU	-	8.56	8.03	11.31	-3.75	7.56	
	147	6685	26T	0	-1.84	-1.23	1.49	-3.75	-2.26	
				9	-1.29	-1.03	1.85	-3.75	-1.90	
				17	-1.62	-1.32	1.54	-3.75	-2.21	
			52T	37	0.88	1.91	4.44	-3.75	0.69	
				41	1.30	2.12	4.74	-3.75	0.99	
				44	1.36	1.44	4.41	-3.75	0.66	
			106T	53	4.08	3.93	7.02	-3.75	3.27	
				54	4.87	4.64	7.77	-3.75	4.02	
				56	4.18	3.98	7.09	-3.75	3.34	
			242T	61	7.61	7.31	10.47	-3.75	6.72	
				62	7.61	7.35	10.49	-3.75	6.74	
			SU	-	8.51	8.06	11.30	-3.75	7.55	
	179	6845	26T	0	-2.25	-1.35	1.23	-3.75	-2.52	
				9	-2.44	-1.74	0.93	-3.75	-2.82	
				17	-2.68	-2.03	0.67	-3.75	-3.08	
			52T	37	0.89	2.16	4.58	-3.75	0.83	
				41	1.41	2.32	4.90	-3.75	1.15	
				44	1.08	1.61	4.36	-3.75	0.61	
			106T	53	4.39	4.04	7.23	-3.75	3.48	
				54	4.79	4.87	7.84	-3.75	4.09	
				56	4.23	4.38	7.32	-3.75	3.57	
			242T	61	7.51	7.26	10.40	-3.75	6.65	
				62	7.77	7.58	10.69	-3.75	6.94	
			SU	-	8.44	8.16	11.31	-3.75	7.56	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-8	187	6885	26T	0	-2.54	-1.65	0.94	-3.18	-2.24	24.00
				9	-2.48	-1.92	0.82	-3.18	-2.36	
				17	-2.72	-1.93	0.70	-3.18	-2.48	
			52T	37	0.23	1.54	3.94	-3.18	0.76	
				41	0.42	1.26	3.87	-3.18	0.69	
				44	0.19	1.09	3.67	-3.18	0.49	
			106T	53	4.03	4.15	7.10	-3.18	3.92	
				54	4.66	4.64	7.66	-3.18	4.48	
				56	4.18	4.23	7.22	-3.18	4.04	
			242T	61	7.91	7.71	10.82	-3.18	7.64	
				62	7.80	7.65	10.74	-3.18	7.56	
			SU	-	8.61	8.11	11.38	-3.18	8.20	
	203	6965	26T	0	-1.29	-1.59	1.57	-3.18	-1.61	
				9	-1.24	-1.85	1.48	-3.18	-1.70	
				17	-1.48	-1.90	1.33	-3.18	-1.85	
			52T	37	1.24	1.28	4.27	-3.18	1.09	
				41	0.91	1.32	4.13	-3.18	0.95	
				44	1.52	0.91	4.24	-3.18	1.06	
			106T	53	4.34	3.28	6.85	-3.18	3.67	
				54	4.97	3.72	7.40	-3.18	4.22	
				56	4.29	3.21	6.79	-3.18	3.61	
			242T	61	8.99	7.48	11.31	-3.18	8.13	
				62	8.55	7.61	11.12	-3.18	7.94	
			SU	-	9.38	7.81	11.68	-3.18	8.50	
	227	7085	26T	0	-1.41	-1.44	1.59	-3.18	-1.59	
				9	-0.97	-1.49	1.79	-3.18	-1.39	
				17	-1.34	-1.84	1.43	-3.18	-1.75	
			52T	37	1.12	1.65	4.40	-3.18	1.22	
				41	1.53	1.65	4.60	-3.18	1.42	
				44	1.45	1.44	4.46	-3.18	1.28	
			106T	53	4.57	3.80	7.21	-3.18	4.03	
				54	5.12	4.40	7.79	-3.18	4.61	
				56	4.67	3.93	7.33	-3.18	4.15	
			242T	61	7.50	7.09	10.31	-3.18	7.13	
				62	7.68	7.26	10.49	-3.18	7.31	
			SU	-	8.65	7.68	11.20	-3.18	8.02	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

PSD Results

Band	Channel	Freq. [MHz]	Tones	RU offset	Meas PSD [dBm/MHz]			DCCF	Direct. Gain [dBi]	Corr'd PSD e.i.r.p [dBm]	PSD e.i.r.p Limit [dBm/MHz]
					ANT1	ANT2	MIMO				
UNII-5	3	5965	242T	61	-4.464	-4.855	-1.645	0.39	-4.74	-5.995	-1.00
				62	-4.338	-4.521	-1.418	0.39	-4.74	-5.768	
			SU	-	-7.403	-7.549	-4.465	0.42	-4.74	-8.785	
	43	6165	242T	61	-4.760	-4.598	-1.668	0.39	-4.74	-6.018	
				62	-5.007	-4.580	-1.778	0.39	-4.74	-6.128	
			SU	-	-7.162	-7.065	-4.103	0.42	-4.74	-8.423	
	91	6405	242T	61	-3.975	-4.515	-1.226	0.39	-4.74	-5.576	
				62	-3.814	-3.570	-0.680	0.39	-4.74	-5.030	
			SU	-	-6.607	-6.466	-3.526	0.42	-4.74	-7.846	
UNII-6	99	6445	242T	61	-5.006	-4.273	-1.614	0.39	-4.49	-5.714	
				62	-4.759	-3.848	-1.269	0.39	-4.49	-5.369	
			SU	-	-6.861	-6.541	-3.688	0.42	-4.49	-7.758	
	115	6525	242T	61	-4.205	-4.827	-1.495	0.39	-4.49	-5.595	
				62	-4.530	-4.320	-1.413	0.39	-4.49	-5.513	
			SU	-	-6.051	-7.255	-3.601	0.42	-4.49	-7.671	
UNII-7	123	6565	242T	61	-4.491	-4.377	-1.423	0.39	-3.75	-4.783	
				62	-3.783	-4.471	-1.103	0.39	-3.75	-4.463	
			SU	-	-6.362	-6.633	-3.485	0.42	-3.75	-6.815	
	147	6685	242T	61	-4.090	-4.684	-1.367	0.39	-3.75	-4.727	
				62	-4.370	-4.094	-1.220	0.39	-3.75	-4.580	
			SU	-	-6.017	-6.461	-3.223	0.42	-3.75	-6.553	
	179	6845	242T	61	-4.888	-4.439	-1.647	0.39	-3.75	-5.007	
				62	-4.717	-4.604	-1.650	0.39	-3.75	-5.010	
			SU	-	-6.994	-7.022	-3.998	0.42	-3.75	-7.328	
UNII-8	187	6885	242T	61	-4.828	-4.357	-1.576	0.39	-3.18	-4.366	
				62	-4.844	-4.447	-1.631	0.39	-3.18	-4.421	
			SU	-	-6.846	-6.754	-3.789	0.42	-3.18	-6.549	
	203	6965	242T	61	-3.179	-4.562	-0.805	0.39	-3.18	-3.595	
				62	-3.163	-4.592	-0.809	0.39	-3.18	-3.599	
			SU	-	-6.970	-7.257	-4.101	0.42	-3.18	-6.861	
	227	7085	242T	61	-4.666	-4.411	-1.526	0.39	-3.18	-4.316	
				62	-4.721	-4.096	-1.387	0.39	-3.18	-4.177	
			SU	-	-6.601	-6.924	-3.749	0.42	-3.18	-6.509	

* Corr'd PSD e.i.r.p = ANT1 Meas PSD + Ant2 Meas PSD + DCCF + Directional Gain

10.1.4. 802.11ax HE80 MODE

Output Power Results

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-5	7	5985	26T	0	-2.97	-3.44	-0.19	-4.74	-4.93	24.00
				18	-2.74	-2.86	0.21	-4.74	-4.53	
				36	-2.72	-3.56	-0.11	-4.74	-4.85	
			52T	37	0.23	0.06	3.16	-4.74	-1.58	
				45	0.56	0.26	3.42	-4.74	-1.32	
				52	0.43	0.04	3.25	-4.74	-1.49	
			106T	53	3.45	2.37	5.95	-4.74	1.21	
				57	3.81	2.93	6.40	-4.74	1.66	
				60	3.54	2.62	6.11	-4.74	1.37	
			242T	61	7.68	6.76	10.25	-4.74	5.51	
				62	7.97	7.11	10.57	-4.74	5.83	
				64	7.85	6.97	10.44	-4.74	5.70	
			484T	65	8.30	7.14	10.77	-4.74	6.03	
				66	8.00	7.30	10.67	-4.74	5.93	
			SU	-	8.59	7.48	11.08	-4.74	6.34	
	39	6145	26T	0	-2.56	-1.89	0.80	-4.74	-3.94	
				18	-2.36	-1.36	1.18	-4.74	-3.56	
				36	-2.25	-2.24	0.77	-4.74	-3.97	
			52T	37	-0.05	0.48	3.23	-4.74	-1.51	
				45	0.19	0.82	3.53	-4.74	-1.21	
				52	-0.28	-0.23	2.76	-4.74	-1.98	
			106T	53	3.28	3.08	6.19	-4.74	1.45	
				57	3.95	3.89	6.93	-4.74	2.19	
				60	3.93	3.54	6.75	-4.74	2.01	
			242T	61	7.71	7.22	10.48	-4.74	5.74	
				62	8.38	7.95	11.18	-4.74	6.44	
				64	8.08	7.92	11.01	-4.74	6.27	
			484T	65	8.01	7.84	10.94	-4.74	6.20	
				66	8.27	8.15	11.22	-4.74	6.48	
			SU	-	8.27	8.01	11.15	-4.74	6.41	
	87	6385	26T	0	-2.45	-2.01	0.79	-4.74	-3.95	
				18	-2.11	-1.56	1.18	-4.74	-3.56	
				36	-2.15	-1.76	1.06	-4.74	-3.68	
			52T	37	0.63	0.86	3.76	-4.74	-0.98	
				45	1.28	1.46	4.38	-4.74	-0.36	
				52	0.32	0.58	3.46	-4.74	-1.28	
			106T	53	3.86	3.65	6.77	-4.74	2.03	
				57	3.97	4.14	7.07	-4.74	2.33	
				60	3.65	3.35	6.51	-4.74	1.77	
			242T	61	7.95	8.26	11.12	-4.74	6.38	
				62	7.23	7.25	10.25	-4.74	5.51	
				64	7.12	7.51	10.33	-4.74	5.59	
			484T	65	8.54	8.30	11.43	-4.74	6.69	
				66	8.82	8.32	11.59	-4.74	6.85	
			SU	-	8.66	8.00	11.35	-4.74	6.61	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-6	103	6465	26T	0	-2.87	-1.19	1.06	-4.49	-3.43	24.00
				18	-2.27	-1.35	1.22	-4.49	-3.27	
				36	-2.58	-1.48	1.02	-4.49	-3.47	
			52T	37	0.63	2.07	4.42	-4.49	-0.07	
				45	0.65	1.94	4.35	-4.49	-0.14	
				52	0.58	1.93	4.32	-4.49	-0.17	
			106T	53	3.25	4.05	6.68	-4.49	2.19	
				57	3.82	4.45	7.16	-4.49	2.67	
				60	3.33	4.33	6.87	-4.49	2.38	
			242T	61	6.96	8.02	10.53	-4.49	6.04	
				62	7.11	7.45	10.29	-4.49	5.80	
				64	6.51	7.85	10.24	-4.49	5.75	
			484T	65	8.52	8.77	11.66	-4.49	7.17	
				66	8.35	8.72	11.55	-4.49	7.06	
			SU	-	8.45	8.98	11.73	-4.49	7.24	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-7	119	6545	26T	0	-2.66	-1.73	0.84	-3.75	-2.91	24.00
				18	-2.03	-1.11	1.46	-3.75	-2.29	
				36	-2.63	-1.83	0.80	-3.75	-2.95	
			52T	37	0.57	1.55	4.10	-3.75	0.35	
				45	0.89	1.57	4.25	-3.75	0.50	
				52	0.64	1.30	3.99	-3.75	0.24	
			106T	53	3.37	3.60	6.50	-3.75	2.75	
				57	3.81	4.18	7.01	-3.75	3.26	
				60	3.35	3.70	6.54	-3.75	2.79	
			242T	61	7.44	8.11	10.80	-3.75	7.05	
				62	7.27	7.91	10.61	-3.75	6.86	
				64	6.51	7.34	9.96	-3.75	6.21	
			484T	65	8.14	8.61	11.39	-3.75	7.64	
				66	8.41	8.70	11.57	-3.75	7.82	
			SU	-	8.66	8.52	11.60	-3.75	7.85	
	151	6705	26T	0	-1.97	-1.13	1.48	-3.75	-2.27	
				18	-2.66	-1.92	0.74	-3.75	-3.01	
				36	-2.17	-1.78	1.04	-3.75	-2.71	
			52T	37	0.04	0.89	3.50	-3.75	-0.25	
				45	0.15	0.92	3.56	-3.75	-0.19	
				52	-0.01	0.68	3.36	-3.75	-0.39	
			106T	53	3.85	4.04	6.96	-3.75	3.21	
				57	4.20	4.40	7.31	-3.75	3.56	
				60	4.02	3.87	6.96	-3.75	3.21	
			242T	61	7.09	7.12	10.12	-3.75	6.37	
				62	7.63	7.62	10.64	-3.75	6.89	
				64	6.90	6.68	9.80	-3.75	6.05	
			484T	65	8.44	8.48	11.47	-3.75	7.72	
				66	8.49	8.66	11.59	-3.75	7.84	
			SU	-	8.86	8.66	11.77	-3.75	8.02	
	183	6865	26T	0	-2.13	-1.03	1.47	-3.75	-2.28	
				18	-3.27	-2.12	0.35	-3.75	-3.40	
				36	-2.28	-1.51	1.13	-3.75	-2.62	
			52T	37	-0.12	1.31	3.66	-3.75	-0.09	
				45	0.12	1.25	3.73	-3.75	-0.02	
				52	-0.38	1.08	3.42	-3.75	-0.33	
			106T	53	3.71	4.30	7.03	-3.75	3.28	
				57	4.18	4.72	7.47	-3.75	3.72	
				60	3.88	4.10	7.00	-3.75	3.25	
			242T	61	6.72	7.22	9.99	-3.75	6.24	
				62	7.12	7.42	10.28	-3.75	6.53	
				64	6.55	7.01	9.80	-3.75	6.05	
			484T	65	7.91	8.25	11.09	-3.75	7.34	
				66	8.03	8.28	11.17	-3.75	7.42	
			SU	-	8.73	9.00	11.88	-3.75	8.13	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-8	199	6945	26T	0	-1.99	-1.73	1.15	-3.18	-2.03	24.00
				18	-2.49	-1.82	0.87	-3.18	-2.31	
				36	-2.11	-2.50	0.71	-3.18	-2.47	
			52T	37	1.01	1.22	4.13	-3.18	0.95	
				45	1.35	1.11	4.24	-3.18	1.06	
				52	1.21	0.84	4.04	-3.18	0.86	
			106T	53	4.95	4.15	7.58	-3.18	4.40	
				57	4.37	3.87	7.14	-3.18	3.96	
				60	3.92	3.30	6.63	-3.18	3.45	
			242T	61	8.06	7.70	10.89	-3.18	7.71	
				62	7.92	7.50	10.73	-3.18	7.55	
				64	7.95	7.39	10.69	-3.18	7.51	
			484T	65	8.80	8.47	11.65	-3.18	8.47	
				66	9.10	8.22	11.69	-3.18	8.51	
			SU	-	9.51	8.36	11.98	-3.18	8.80	
	215	7025	26T	0	-2.33	-1.91	0.90	-3.18	-2.28	
				18	-2.68	-2.23	0.56	-3.18	-2.62	
				36	-2.68	-2.63	0.36	-3.18	-2.82	
			52T	37	0.47	1.17	3.84	-3.18	0.66	
				45	0.67	0.98	3.84	-3.18	0.66	
				52	0.21	0.80	3.53	-3.18	0.35	
			106T	53	3.72	3.45	6.60	-3.18	3.42	
				57	3.60	3.32	6.47	-3.18	3.29	
				60	3.47	3.22	6.36	-3.18	3.18	
			242T	61	7.50	7.05	10.29	-3.18	7.11	
				62	7.44	7.45	10.46	-3.18	7.28	
				64	7.44	6.87	10.17	-3.18	6.99	
			484T	65	8.25	8.31	11.29	-3.18	8.11	
				66	8.45	8.08	11.28	-3.18	8.10	
			SU	-	9.10	8.38	11.77	-3.18	8.59	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]
Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

PSD Results

Band	Channel	Freq. [MHz]	Tones	RU offset	Meas PSD [dBm/MHz]			DCCF	Direct. Gain [dBi]	Corr'd PSD e.i.r.p [dBm]	PSD e.i.r.p Limit [dBm/MHz]
					ANT1	ANT2	MIMO				
UNII-5	7	5985	242T	61	-4.740	-5.629	-2.151	0.40	-4.74	-6.491	-1.00
				62	-4.755	-4.791	-1.763	0.40	-4.74	-6.103	
				64	-4.742	-5.634	-2.155	0.40	-4.74	-6.495	
			SU	-	-10.320	-10.903	-7.591	0.31	-4.74	-12.021	
	39	6145	242T	61	-4.943	-4.438	-1.673	0.40	-4.74	-6.013	
				62	-4.824	-4.431	-1.613	0.40	-4.74	-5.953	
				64	-4.826	-4.127	-1.452	0.40	-4.74	-5.792	
			SU	-	-10.197	-10.054	-7.115	0.31	-4.74	-11.545	
	87	6385	242T	61	-4.303	-4.424	-1.353	0.40	-4.74	-5.693	
				62	-4.817	-5.358	-2.069	0.40	-4.74	-6.409	
				64	-5.143	-5.581	-2.346	0.40	-4.74	-6.686	
			SU	-	-9.565	-10.358	-6.933	0.31	-4.74	-11.363	
UNII-6	103	6465	242T	61	-6.172	-4.948	-2.507	0.40	-4.49	-6.597	
				62	-4.859	-4.736	-1.787	0.40	-4.49	-5.877	
				64	-5.550	-4.298	-1.869	0.40	-4.49	-5.959	
			SU	-	-9.638	-8.774	-6.174	0.31	-4.49	-10.354	
UNII-7	119	6545	242T	61	-4.291	-3.921	-1.092	0.40	-3.75	-4.442	
				62	-4.754	-4.713	-1.723	0.40	-3.75	-5.073	
				64	-5.331	-4.313	-1.782	0.40	-3.75	-5.132	
			SU	-	-9.353	-9.465	-6.398	0.31	-3.75	-9.838	
	151	6705	242T	61	-5.731	-5.163	-2.427	0.40	-3.75	-5.777	
				62	-4.634	-4.789	-1.701	0.40	-3.75	-5.051	
				64	-5.100	-5.261	-2.169	0.40	-3.75	-5.519	
			SU	-	-9.684	-9.090	-6.367	0.31	-3.75	-9.807	
	183	6865	242T	61	-5.348	-4.799	-2.055	0.40	-3.75	-5.405	
				62	-5.419	-4.692	-2.030	0.40	-3.75	-5.380	
				64	-5.282	-4.964	-2.110	0.40	-3.75	-5.460	
			SU	-	-9.976	-9.254	-6.590	0.31	-3.75	-10.030	
UNII-8	199	6945	242T	61	-4.807	-4.958	-1.872	0.40	-3.18	-4.652	
				62	-4.507	-4.579	-1.533	0.40	-3.18	-4.313	
				64	-4.557	-4.288	-1.410	0.40	-3.18	-4.190	
			SU	-	-9.063	-9.563	-6.296	0.31	-3.18	-9.166	
	215	7025	242T	61	-5.153	-5.089	-2.111	0.40	-3.18	-4.891	
				62	-5.120	-4.563	-1.822	0.40	-3.18	-4.602	
				64	-5.019	-4.659	-1.825	0.40	-3.18	-4.605	
			SU	-	-9.325	-10.132	-6.699	0.31	-3.18	-9.569	

* Corr'd PSD e.i.r.p = ANT1 Meas PSD + Ant2 Meas PSD + DCCF + Directional Gain

10.1.5. 802.11ax HE160 MODE

Output Power Results

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-5	15	6025	26T	0L	-2.49	-2.45	0.54	-4.74	-4.20	24.00
				0U	-2.32	-3.08	0.33	-4.74	-4.41	
				36U	-1.85	-1.72	1.23	-4.74	-3.51	
			52T	37L	0.75	1.08	3.93	-4.74	-0.81	
				37U	0.87	0.78	3.84	-4.74	-0.90	
				52U	1.28	1.65	4.48	-4.74	-0.26	
			106T	53L	4.25	3.21	6.77	-4.74	2.03	
				53U	4.52	3.61	7.10	-4.74	2.36	
				60U	4.80	4.36	7.60	-4.74	2.86	
			242T	61L	8.16	7.31	10.77	-4.74	6.03	
				61U	7.77	7.33	10.57	-4.74	5.83	
				64U	8.41	8.25	11.34	-4.74	6.60	
			484T	65L	7.85	7.51	10.69	-4.74	5.95	
				66L	8.34	7.97	11.17	-4.74	6.43	
				66U	8.24	8.25	11.26	-4.74	6.52	
			996T	67L	8.27	7.85	11.08	-4.74	6.34	
				67U	8.01	7.85	10.94	-4.74	6.20	
			SU	-	8.41	9.95	12.26	-4.74	7.52	
	47	6185	26T	0L	-1.87	-1.33	1.42	-4.74	-3.32	
				0U	-2.21	-1.88	0.97	-4.74	-3.77	
				36U	-2.94	-1.62	0.78	-4.74	-3.96	
			52T	37L	0.04	1.98	4.13	-4.74	-0.61	
				37U	0.33	1.71	4.08	-4.74	-0.66	
				52U	0.45	1.54	4.04	-4.74	-0.70	
			106T	53L	3.67	4.70	7.23	-4.74	2.49	
				53U	4.44	4.68	7.57	-4.74	2.83	
				60U	3.78	4.44	7.13	-4.74	2.39	
			242T	61L	7.48	7.13	10.32	-4.74	5.58	
				61U	7.35	7.49	10.43	-4.74	5.69	
				64U	7.81	8.13	10.98	-4.74	6.24	
			484T	65L	8.10	8.88	11.52	-4.74	6.78	
				66L	8.10	8.70	11.42	-4.74	6.68	
				66U	8.42	9.10	11.78	-4.74	7.04	
			996T	67L	8.28	8.91	11.62	-4.74	6.88	
				67U	7.91	8.80	11.39	-4.74	6.65	
			SU	-	8.45	8.61	11.54	-4.74	6.80	
	79	6345	26T	0L	-2.13	-2.08	0.91	-4.74	-3.83	
				0U	-1.94	-2.22	0.93	-4.74	-3.81	
				36U	-2.09	-1.59	1.18	-4.74	-3.56	
			52T	37L	0.75	1.40	4.10	-4.74	-0.64	
				37U	1.10	1.02	4.07	-4.74	-0.67	
				52U	1.35	1.96	4.68	-4.74	-0.06	
			106T	53L	3.22	2.95	6.10	-4.74	1.36	
				53U	3.72	3.28	6.52	-4.74	1.78	
				60U	3.37	3.66	6.53	-4.74	1.79	
			242T	61L	7.16	7.00	10.09	-4.74	5.35	
				61U	6.64	7.15	9.91	-4.74	5.17	
				64U	7.31	7.61	10.47	-4.74	5.73	
			484T	65L	8.61	8.17	11.41	-4.74	6.67	
				66L	8.92	8.31	11.64	-4.74	6.90	
				66U	8.98	8.48	11.75	-4.74	7.01	
			996T	67L	8.91	7.94	11.46	-4.74	6.72	
				67U	8.48	7.97	11.24	-4.74	6.50	
			SU	-	8.68	8.05	11.39	-4.74	6.65	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]

Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

* HE160 = HE80L + HE80U

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-6	111	6505	26T	0L	-2.54	-1.27	1.15	-4.49	-3.34	24.00
				0U	-2.50	-1.67	0.95	-4.49	-3.54	
				36U	-2.29	-1.21	1.29	-4.49	-3.20	
			52T	37L	0.01	1.49	3.82	-4.49	-0.67	
				37U	0.41	1.34	3.91	-4.49	-0.58	
				52U	0.11	1.42	3.82	-4.49	-0.67	
			106T	53L	4.22	4.76	7.51	-4.49	3.02	
				53U	4.07	4.36	7.23	-4.49	2.74	
				60U	3.47	4.03	6.77	-4.49	2.28	
			242T	61L	7.05	8.00	10.56	-4.49	6.07	
				61U	7.11	7.88	10.52	-4.49	6.03	
				64U	7.12	7.59	10.37	-4.49	5.88	
			484T	65L	8.52	8.05	11.30	-4.49	6.81	
				66L	8.71	8.07	11.41	-4.49	6.92	
				66U	8.51	8.13	11.33	-4.49	6.84	
			996T	67L	8.33	9.10	11.74	-4.49	7.25	
				67U	7.96	8.66	11.33	-4.49	6.84	
			SU	-	9.10	8.51	11.83	-4.49	7.34	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]

Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

* HE160 = HE80L + HE80U

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-7	143	6665	26T	0L	-2.01	-1.52	1.25	-3.75	-2.50	24.00
				0U	-2.07	-2.05	0.95	-3.75	-2.80	
				36U	-2.03	-1.45	1.28	-3.75	-2.47	
			52T	37L	0.91	1.75	4.36	-3.75	0.61	
				37U	1.18	1.71	4.46	-3.75	0.71	
				52U	0.05	1.37	3.77	-3.75	0.02	
			106T	53L	4.27	4.54	7.42	-3.75	3.67	
				53U	4.57	4.40	7.50	-3.75	3.75	
				60U	4.32	4.58	7.46	-3.75	3.71	
			242T	61L	7.44	7.72	10.59	-3.75	6.84	
				61U	6.80	7.36	10.10	-3.75	6.35	
				64U	7.11	7.36	10.25	-3.75	6.50	
			484T	65L	8.80	8.41	11.62	-3.75	7.87	
				66L	9.04	8.82	11.94	-3.75	8.19	
				66U	8.51	8.60	11.57	-3.75	7.82	
			996T	67L	8.82	8.92	11.88	-3.75	8.13	
				67U	8.18	8.32	11.26	-3.75	7.51	
			SU	-	9.51	8.90	12.23	-3.75	8.48	
	175	6825	26T	0L	-2.67	-1.54	0.94	-3.75	-2.81	
				0U	-2.06	-1.30	1.35	-3.75	-2.40	
				36U	-2.13	-1.01	1.48	-3.75	-2.27	
			52T	37L	0.05	1.78	4.01	-3.75	0.26	
				37U	0.02	1.01	3.55	-3.75	-0.20	
				52U	-0.09	1.55	3.82	-3.75	0.07	
			106T	53L	3.41	4.28	6.88	-3.75	3.13	
				53U	3.62	3.87	6.76	-3.75	3.01	
				60U	3.50	3.90	6.71	-3.75	2.96	
			242T	61L	7.65	7.99	10.83	-3.75	7.08	
				61U	7.06	7.77	10.44	-3.75	6.69	
				64U	7.29	7.60	10.46	-3.75	6.71	
			484T	65L	8.14	8.22	11.19	-3.75	7.44	
				66L	8.24	8.62	11.44	-3.75	7.69	
				66U	7.94	8.21	11.09	-3.75	7.34	
			996T	67L	8.41	8.87	11.66	-3.75	7.91	
				67U	8.21	8.36	11.30	-3.75	7.55	
			SU	-	8.82	8.76	11.80	-3.75	8.05	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]

Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

* HE160 = HE80L + HE80U

Band	Channel	Freq. [MHz]	Tones	RU offset	Average Power [dBm]			Direct. Gain [dBi]	Corr'd e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]
					ANT1	ANT2	MIMO			
UNII-8	207	6985	26T	0L	-2.29	-1.84	0.95	-3.18	-2.23	24.00
				0U	-2.37	-2.72	0.47	-3.18	-2.71	
				36U	-2.54	-2.18	0.65	-3.18	-2.53	
			52T	37L	1.02	1.70	4.38	-3.18	1.20	
				37U	0.62	0.57	3.61	-3.18	0.43	
				52U	0.43	1.14	3.81	-3.18	0.63	
			106T	53L	4.40	3.95	7.19	-3.18	4.01	
				53U	3.94	3.44	6.71	-3.18	3.53	
				60U	4.01	3.63	6.83	-3.18	3.65	
			242T	61L	8.38	7.71	11.07	-3.18	7.89	
				61U	7.60	7.80	10.71	-3.18	7.53	
				64U	7.65	7.24	10.46	-3.18	7.28	
			484T	65L	9.01	8.31	11.68	-3.18	8.50	
				66L	9.11	8.45	11.80	-3.18	8.62	
				66U	8.44	8.14	11.30	-3.18	8.12	
			996T	67L	9.18	8.24	11.75	-3.18	8.57	
				67U	8.51	7.83	11.19	-3.18	8.01	
			SU	-	8.98	8.90	11.95	-3.18	8.77	

* Calculation of Output Power : Average Power = Meas Power + Duty CF[dB]

Corr'd e.i.r.p = Ant1 Average Power + Ant2 Average Power + Directional Gain

* HE160 = HE80L + HE80U

PSD Results

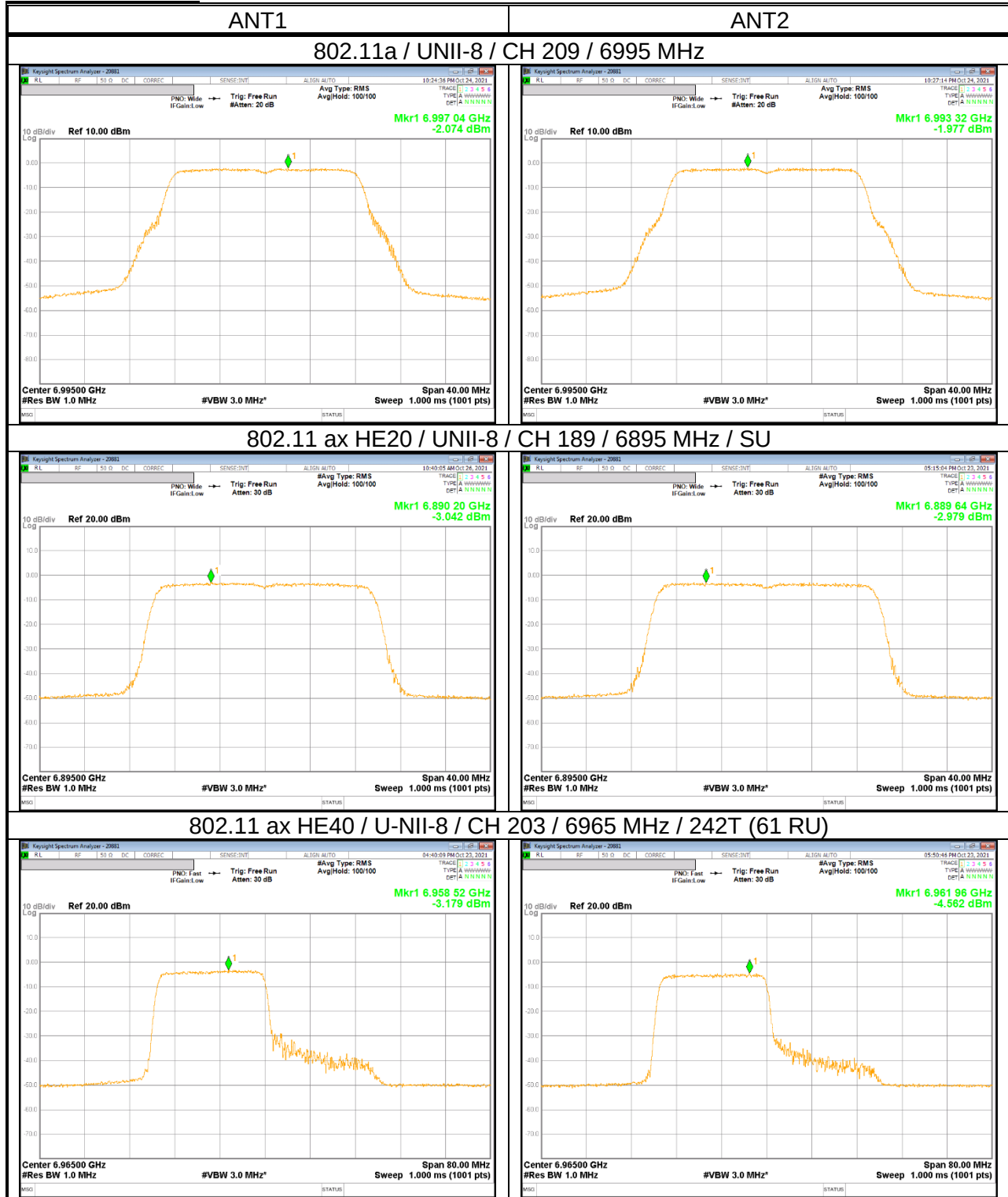
Band	Channel	Freq. [MHz]	Tones	RU offset	Meas PSD [dBm/MHz]			DCCF	Direct. Gain [dBi]	Corr'd PSD e.i.r.p [dBm]	PSD e.i.r.p Limit [dBm/MHz]
					ANT1	ANT2	MIMO				
UNII-5	15	6025	242T	61L	-4.065	-5.185	-1.579	0.40	-4.74	-5.919	-1.00
				61U	-4.705	-5.103	-1.889	0.40	-4.74	-6.229	
				64U	-3.657	-4.099	-0.862	0.40	-4.74	-5.202	
			SU	-	-11.567	-11.189	-8.364	0.35	-4.74	-12.754	
	47	6185	242T	61L	-4.947	-5.016	-1.971	0.40	-4.74	-6.311	
				61U	-5.427	-4.756	-2.068	0.40	-4.74	-6.408	
				64U	-4.419	-3.828	-1.103	0.40	-4.74	-5.443	
			SU	-	-13.108	-12.993	-10.040	0.35	-4.74	-14.430	
	79	6345	242T	61L	-5.372	-5.839	-2.589	0.40	-4.74	-6.929	
				61U	-4.975	-5.065	-2.009	0.40	-4.74	-6.349	
				64U	-4.427	-4.645	-1.524	0.40	-4.74	-5.864	
			SU	-	-13.337	-13.130	-10.222	0.35	-4.74	-14.612	
UNII-6	111	6505	242T	61L	-5.877	-4.142	-1.913	0.40	-4.49	-6.003	
				61U	-5.101	-4.228	-1.632	0.40	-4.49	-5.722	
				64U	-4.308	-4.328	-1.308	0.40	-4.49	-5.398	
			SU	-	-12.009	-11.831	-8.909	0.35	-4.49	-13.049	
UNII-7	143	6665	242T	61L	-4.723	-3.908	-1.286	0.40	-3.75	-4.636	
				61U	-5.192	-4.892	-2.029	0.40	-3.75	-5.379	
				64U	-4.880	-4.290	-1.565	0.40	-3.75	-4.915	
			SU	-	-11.979	-11.946	-8.952	0.35	-3.75	-12.352	
	175	6825	242T	61L	-4.127	-4.146	-1.126	0.40	-3.75	-4.476	
				61U	-5.244	-4.112	-1.631	0.40	-3.75	-4.981	
				64U	-4.457	-4.161	-1.296	0.40	-3.75	-4.646	
			SU	-	-12.549	-11.819	-9.158	0.35	-3.75	-12.558	
UNII-8	207	6985	242T	61L	-3.930	-4.185	-1.045	0.40	-3.18	-3.825	
				61U	-4.764	-5.006	-1.873	0.40	-3.18	-4.653	
				64U	-4.446	-4.648	-1.536	0.40	-3.18	-4.316	
			SU	-	-12.644	-12.427	-9.524	0.35	-3.18	-12.354	

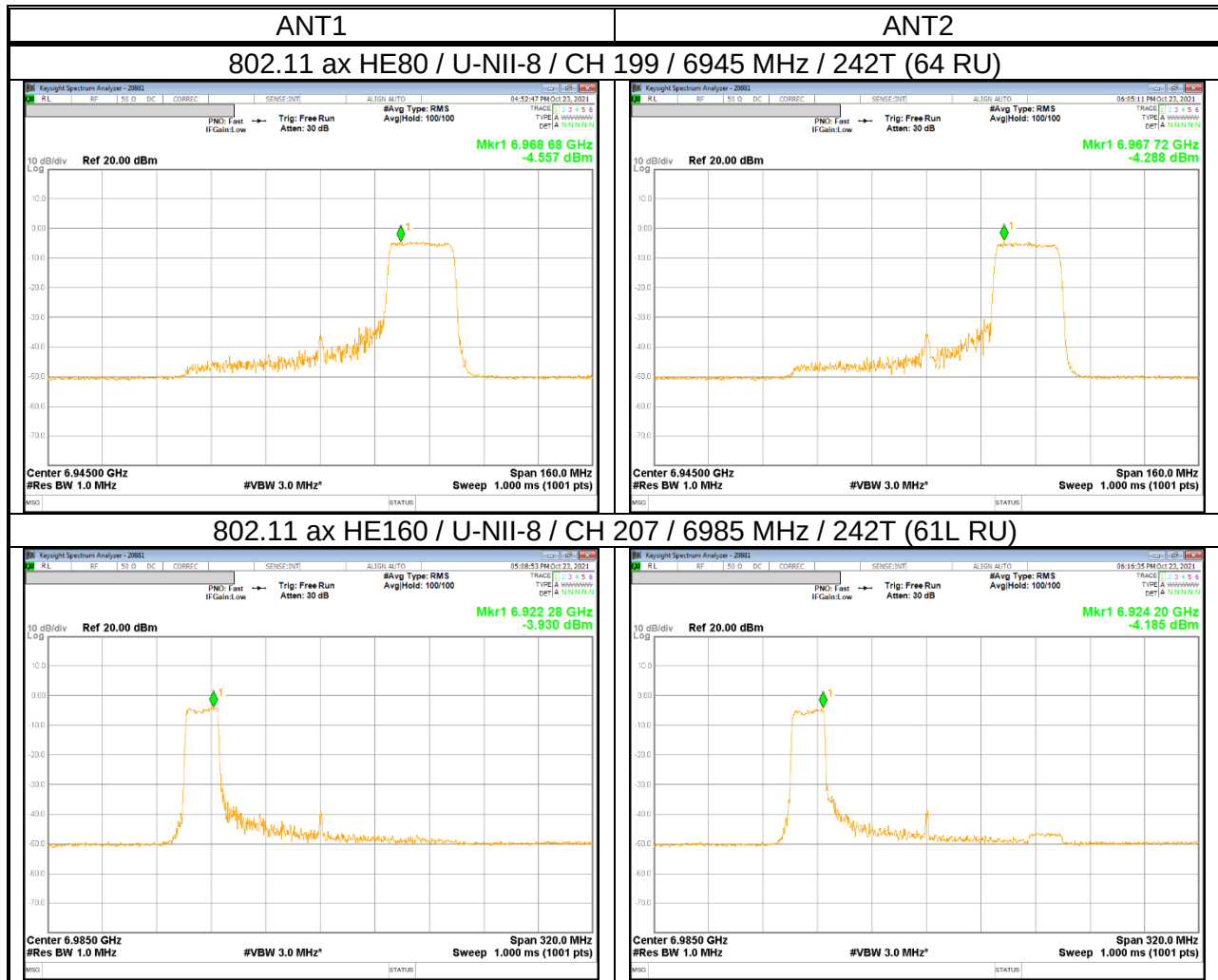
* Corr'd PSD e.i.r.p = ANT1 Meas PSD + Ant2 Meas PSD + DCCF + Directional Gain

* HE160 = HE80L + HE80U

10.1.6. PPSPD PLOTS (WORST CASE)

UNII-5 & 6 & 7 & 8





10.2. IN-BAND EMISSIONS

LIMITS

FCC §15.407 (b) (7)

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

TEST PROCEDURE

KDB 987594 D02

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

10.2.1. 802.11 a MODE

