

TEST REPORT

Report Number: 15107858-E12V3

Applicant : Google LLC
1600 Amphitheatre Parkway
Mountain View, CA 94043 U.S.A.

Model : GGX8B

FCC ID : A4RGGX8B

EUT Description : Phone

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

Date Of Issue:
2024-05-06

Prepared by:
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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2024-04-22	Initial Issue	---
V2	2024-05-01	Updated report to address TCB's questions	Tina Chu
V3	2024-05-06	Updated Section 6.3.1 with frequency range for each bandwidth, Section 6.4, 9.2.4, 11.1.13.	Tina Chu

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Google LLC
1600 Amphitheater pkwy
Mountain View, CA 94043 U.S.A.

EUT DESCRIPTION: Phone

MODEL: GGX8B

SERIAL NUMBER: 41031FDAS000A7 (Radiated)
41121FDAS000BS, 41121FDAS00093 (Conducted)

SAMPLE RECEIPT DATE: 2024-01-23

DATE TESTED: 2024-01-31 TO 2024-05-06

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.

Approved & Released For
UL Verification Services Inc. By:



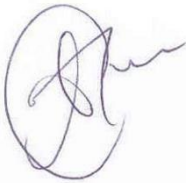
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2. TEST RESULT SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

- 1) Antenna gain and type (see section 6.4)

FCC Clause	Requirement	Result	Comment
See Comment	Duty Cycle	Reporting purposes only	ANSI C63.10 Section 12.2
See Comment	99% BW	Reporting purposes only	ANSI C63.10 Section 6.9.3
See Comment	26dB BW	Reporting purposes only	None.
§15.407 (a) (7), (8)	Output Power e.i.r.p.	Complies	Dual Client.
§15.407 (a) (7), (8)	PSD e.i.r.p	Complies	Dual Client.
§15.407 (b) (6)	Emissions outside 5.925-7.125 GHz band	Complies	None
§15.407 (b) (7)	Emissions within 5.925-7.125 GHz Band(Emissions Mask)	Complies	None
§15.205	Unwanted emissions in restricted bands	Complies	None
§15.209	Radiated Spurious Emissions	Complies	None
§15.207	AC Mains Conducted Emissions	Complies	None

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with;

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15
- FCC KDB 662911 Measurement of Transmitters with Multiple Output, MIMO
- FCC KDB 789033 D02 UNII Test Procedures New Rules
- FCC KDB 987594 D01 U-NII 6GHz General Requirements
- FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement
- KDB 414788 D01 Radiated Test Site
- ANSI C63.10-2013

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, Certificate Number 0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☐	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	U _{Lab}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
RF Power Measurement Direct Method Using Power Meter	1.3 dB (PK) / 0.45 dB (AV)
RF Power Measurement Using Spectrum Analyzer	0.33dB
Unwanted Emissions, Conducted	1.94 dB
Power Spectral Density	2.466 dB
Worst Case Conducted Disturbance, 9kHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9kHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB
Time Domain Measurements	3.39%
Temperature	0.57°C
Humidity	3.39%
DC Supply Voltages	0.57%

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

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable

Loss (dB) – Preamp Gain (dB)

$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT is a phone.

6.2. EUT DEVICE CLASS

EUT is of the following device class;

FCC

Dual Client (6CD)	U-NII Bands of Operation			
	5	6	7	8
Low Power Client	☒	☒	☒	☒
Standard Client	☒	☐	☒	☐

6.3. MAXIMUM OUTPUT POWER

The transmitter has a maximum e.i.r.p. output power as follows:

6.3.1. FCC

Low Power

Band	Mode	Min Frequency (MHz)	Max Frequency (MHz)	LP Output Power EIRP (dBm)	LP Output Power EIRP (mW)
UNII_5	11a	5955	6415	5.13	3.26
	11be EHT20			5.62	3.65
	11be EHT40	5965	6405	7.98	6.28
	11be EHT80	5985	6385	11.74	14.93
	11be EHT160	6025	6345	14.71	29.58
UNII_6	11a	6435	6515	5.49	3.54
	11be EHT20			6.03	4.01
	11be EHT40	6445	6525	8.61	7.26
	11be EHT80	6465	6465	11.46	14.00
	11be EHT160	6505	6505	15.18	32.96
UNII_7	11a	6535	6875	5.82	3.82
	11be EHT20			6.47	4.44
	11be EHT40	6565	6845	9.01	7.96
	11be EHT80	6545	6865	11.91	15.52
	11be EHT160	6665	6825	14.94	31.19
UNII_8	11a	6895	7095	5.46	3.52
	11be EHT20			6.15	4.12
	11be EHT40	6885	7085	9.04	8.02
	11be EHT80	6945	7025	11.58	14.39
	11be EHT160	6985	6985	14.05	25.41

Standad Power

Band	Mode	Min Frequency (MHz)	Max Frequency (MHz)	SP Output Power EIRP (dBm)	SP Output Power EIRP (mW)
UNII_5	11a	5955	6415	19.94	98.63
	11be EHT20			20.02	100.46
	11be EHT40	5965	6405	20.76	119.12
	11be EHT80	5985	6385	20.96	124.74
	11be EHT160	6025	6345	20.81	120.50
UNII_7	11a	6535	6855	18.80	75.86
	11be EHT20			19.88	97.27
	11be EHT40	6565	6845	20.29	106.91
	11be EHT80	6625	6785	20.65	116.14
	11be EHT160	6665	6665	20.46	111.17

6.4. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna(s) gain and type as provided by the manufacturer' are as follows:

The radio utilizes one IFA antenna (Ant3) and one ILA antenna (Ant4) for unlicensed radios.

Integrated Antenna?	☒ Yes	☐ No
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Band	Antenna Peak Gain	
	Tx0 (Ant3) (dBi)	Tx1 (Ant4) (dBi)
UNII-5	-5.4	-2.1
UNII-6	-4.3	-7.3
UNII-7	-3.2	-4.7
UNII-8	-2.8	-4.5

6.5. WORST-CASE CONFIGURATION AND MODE

EUT supports 6G 802.11a, ax, be MIMO with MRU and channel puncturing features. The following are used for investigations.

MRU:

Bandwidth	RU Size
20MHz	52+26
	106+26

Puncturing:

Bandwidth	RU Size
80MHz	484+242
160MHz	996+484
	996+484+242

For 802.11ax and 802.11be investigation was performed on SU and Full tone, and it was determined that 802.11be Full tone mode is the worst case. The modulation and bandwidth of 802.11ax and 802.11be modes are similar at 20 MHz (40 MHz, 80 MHz, 160 MHz), and the target power of 802.11ax mode is equal to 802.11be mode, so 802.11be mode is performed in the test to represent worst-case reporting.

Investigation has been performed on power and PSD, partial RU/MRU/Punctured are lower than Full tone. Also, investigation performed on bandedge and spurious emissions on Full tone and 26 Tone, 802.11be Full tone is the worse case and set for all testing with additional spot check on partial RU/MRU/ Punctured power/PSD/Emissions Mask combinations.

Note that 160MHz SU (2x996) is tested as worse case due to Full tone only supports 1x996, also, report shows Full tones and 26Tones plots as worse case in Emissions Mask section.

Radiated emissions below 1GHz, 1GHz to 18GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario to cover all LP/SP. There were no emissions found with less than 20dB of margin from 9kHz to 30MHz and above 18GHz.

6G simultaneous transmission with the Bluetooth/2.4G WLAN + Cellular was investigated, and no noticeable emission was found.

Investigation was performed with/without adapter. Also, the fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, the following is the worst-case orientation:

- For 2Tx: Z (Portrait) orientation was worst-case orientation with adapter.

Worst-case data rates as provided by the client were:

- 802.11a mode: 6Mbps
- 802.11ax HE20 mode: MCS0
- 802.11ax HE40 mode: MCS0
- 802.11ax HE80 mode: MCS0
- 802.11ax HE160 mode: MCS0
- 802.11be EHT20 mode: MCS0
- 802.11be EHT40 mode: MCS0
- 802.11be EHT80 mode: MCS0
- 802.11be EHT160 mode: MCS0

Plots included in the report are representative of the method and settings parameters used for the test.

7. MEASUREMENT METHOD

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

26 dB Emission BW: ANSI C63.10-2013 Section 12.4.1

99% Occupied Bandwidth: KDB 789033 D02 v02r01, Section II-D

Conducted Output Power: KDB 789033 D02 v02r01, Section II E.2.d (Method SA-2).

Output Power (e.i.r.p), Conducted Power + Ant Gain= EIRP:

Power Spectral Density(PSD): KDB 789033 D02 v02r01, Section F.3.a (Method SA-2).

Spurious emissions within 5.925-7.125 GHz Band(Emissions Mask): KDB 987594 D02 EMC Measurement Section II-J

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, and G.5.

AC Power Line Conducted Emissions: ANSI C63.10-2013, Section 6.2.

Radiated Spurious Emissions Below 30MHz: ANSI C63.10-2013 Section 6.4

8. 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	ID Num	Cal Due	Last Cal
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO METRICS	EM-6871	219908	2024-09-30	2023-09-13
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO METRICS	EM-6872	219910	2024-05-31	2023-05-31
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB1	80293	2024-04-30	2023-04-11
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	213877	2024-12-31	2023-12-27
Antenna, Horn 1-18GHz (Chamber T)	ETS-Lindgren	3117	80430	2024-08-31	2022-08-08
Antenna, Horn 1-18GHz (Chamber I)	ETS-Lindgren	3117	84797	2024-09-30	2023-09-25
Antenna, Horn 1-18GHz (Chamber J)	ETS-Lindgren	3117	222741	2024-08-31	2022-08-22
RF Filter Box, 1-18GHz (Chamber T)	UL-FR1	RATS 2	226781	2024-09-30	2023-09-30
RF Filter Box, 1-18GHz (Chamber I)	UL-FR1	NA	171389	2024-05-31	2023-05-15
RF Filter Box, 1-18GHz (Chamber J)	UL-FR1	NA	171875	2024-05-31	2023-05-30
EMI TEST RECEIVER (Chamber T)	Rohde & Schwarz	ESW44	169935	2025-02-28	2024-02-11
EMI TEST RECEIVER (Chamber I)	Rohde & Schwarz	ESW44	201497	2025-02-28	2024-02-11
EMI TEST RECEIVER (Chamber J)	Rohde & Schwarz	ESW44	171875	2024-05-31	2023-05-30
EMI TEST RECEIVER (Chamber K)	Rohde & Schwarz	ESW44	225688	2025-02-11	2024-02-11
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	199659	2024-12-31	2022-12-06
Amplifier 18-26.5GHz, +5Vdc, -54dBm P1dB	AMPLICAL	AMP18G26.5-60	199658	2025-02-28	2024-02-02
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	199660	2026-02-28	2024-02-02
RF Device, Active, Amplifier	AMPLICAL	AMP26G40-60	224141	2025-01-31	2024-01-25
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030B	222074	2024-08-31	2023-08-14
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030B	222073	2024-08-31	2023-08-14
10dB Fixed Attenuator, up to 26GHz	Pasternack Enterprises	PE7087-10	236189	Verified/characterized before use	
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	222073	2024-08-31	2023-08-14
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	222074	2024-08-31	2023-08-14
AC Line Conducted					
LISN	Fischer Custom Communications, Inc	FCC-LISN-50/250-25-2-01-480V	175765	2025-01-31	2024-01-26
EMI TEST RECEIVER	Rohde & Schwarz	ESR	171646	2025-02-28	2024-02-27
Transient Limiter	TE	TBFL1	127455	2025-02-28	2024-02-27
UL TEST SOFTWARE LIST					
Radiated Software	UL	UL EMC	Ver 2023-01-18, 2023-03-03, 2023-05-01		
Antenna Port Software	UL	UL RF	Ver 2022-08-16		
AC Line Conducted Software	UL	UL EMC	Rev 9.5, 2022-02-17		

KDB 987594 D02 UNII 6GHz EMC MEASUREMENT II (K) and II (L)

(K) Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

(L) Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90718	2025-01-31	2024-01-25
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	90388	2025-01-31	2024-01-23
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	85201	2025-01-31	2024-01-30
Directional Coupler	Pasternack	PE2204-6	246268	2025-03-22	2024-03-22
Directional Coupler	Pasternack	PE2204-6	246270	2025-03-22	2024-03-22
SMA-SMA cable(.3meter)	Pasternack	PE360-12	246328	2025-03-22	2024-03-22
SMA-SMA cable(.3meter)	Pasternack	PE360-12	246324	2025-03-22	2024-03-22
SMA-SMA cable(.3meter)	Pasternack	PE360-12	246326	2025-03-22	2024-03-22
SMA-SMA cable(.6meter)	Pasternack	PE360-24	246274	2025-03-22	2024-03-22

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

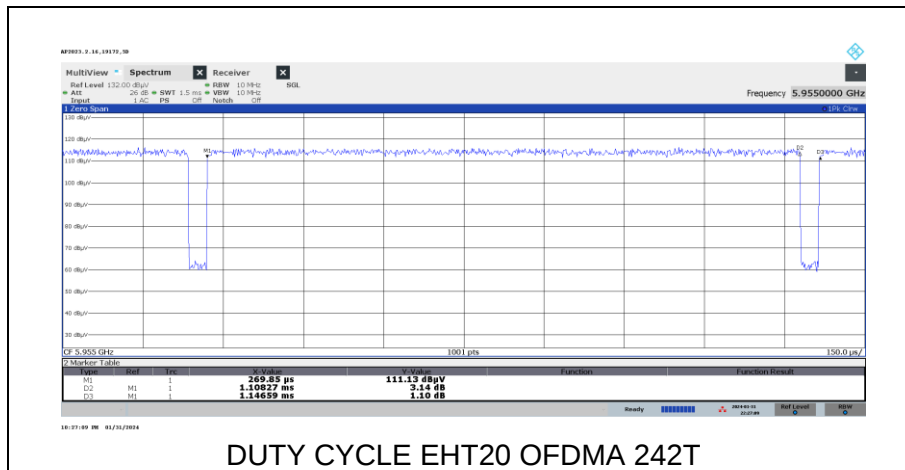
None; for reporting purposes only.

TEST PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

RESULTS

Mode	ON Time T (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	DCCF (dB)	1/T Minimum VBW (kHz)
802.11a	4.06697	4.08887	0.99	99.46	0.00	0.01
802.11be OFDMA EHT20 242T	1.10827	1.14659	0.97	96.66	0.15	0.90
802.11be OFDMA EHT20 106T	1.30441	1.34172	0.97	97.22	0.12	0.77
802.11be OFDMA EHT20 52T	1.45704	1.49961	0.97	97.16	0.13	0.69
802.11be OFDMA EHT20 26T	1.61704	1.65685	0.98	97.60	0.11	0.62
802.11be OFDMA EHT20 52T + 26T	13.89	13.95	1.00	99.57	0.00	0.01
802.11be OFDMA EHT20 106T + 26T	1.996	2.034	0.98	98.13	0.00	0.01
802.11be OFDMA EHT40 484T	0.582479	0.620225	0.94	93.91	0.27	1.72
802.11be OFDMA EHT80 996T	0.314366	0.352423	0.89	89.20	0.50	3.18
802.11be OFDMA EHT80 484T + 242T Puncture 20MHz	1.003	1.027	0.98	97.66	0.10	1.00
802.11be OFDMA EHT160 SU	0.4072	0.4273	0.95	95.30	0.21	2.46
802.11be OFDMA EHT160 996T + 484T Puncture 40MHz	0.404	0.461	0.88	87.64	0.57	2.48
802.11be OFDMA EHT160 996T + 484T + 242T Puncture 20MHz	0.46	0.52	0.88	88.46	0.53	2.17



9.2. 26 dB and 99% BANDWIDTH

LIMITS

47 CFR 15.407(a)(10) The maximum transmitter channel bandwidth for U-NII devices in the 5.925–7.125 GHz band is 320 megahertz.

According to TCB workshop October 5, 2023, for channels with a nominal bandwidth less than 320MHz, (e.g., 20, 40, 80, and 160 MHz), compliance is demonstrated by way of the 26 dB EBW. For channels with a nominal bandwidth of 320 MHz, compliance is demonstrated by way of the 99% BW.

RESULTS

LOW POWER UNII_8 plots are representative of the method and settings parameters used for the test.

9.2.1. LOW POWER UNII-5

Band (GHz)	No. of Tx	Mode	Channel	Freq (MHz)	Tones	RU Index	99% Bandwidth (MHz)		26dB Bandwidth (MHz)	
							Tx0	Tx1	Tx0	Tx1
UNII_5	2	11a	1	5955			16.668	16.641	21.20	21.16
			45	6175			16.609	16.546	21.20	21.16
			93	6415			16.622	16.664	21.28	21.00
		11be EHT20	1	5955	242T	61	18.987	18.957	21.60	21.24
			45	6175			18.906	18.905	21.64	21.32
			93	6415			18.933	18.931	21.60	21.40
		11be EHT40	3	5965	484T	65	37.646	37.609	41.04	40.88
			43	6165			37.618	37.693	41.12	40.96
			91	6405			37.712	37.627	41.04	40.88
		11be EHT80	7	5985	996T	67	77.402	77.087	82.88	83.04
			39	6145			77.117	77.125	82.88	83.04
			87	6385			77.085	76.967	82.72	83.20
		11be EHT160	15	6025	SU		157.100	157.190	279.36	276.80
			47	6185			156.500	156.890	272.64	277.76
			79	6345			156.640	157.000	270.72	310.40

9.2.2. LOW POWER UNII-6

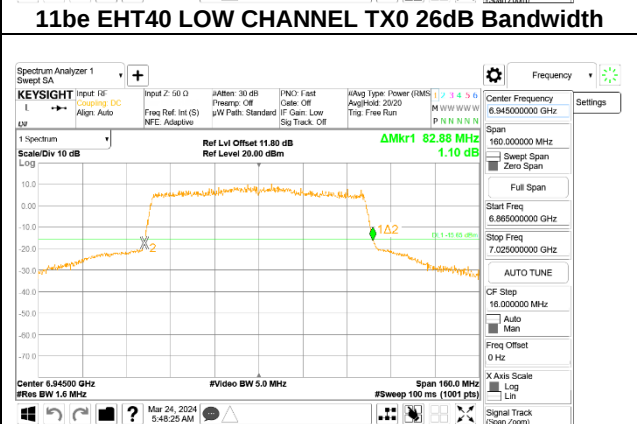
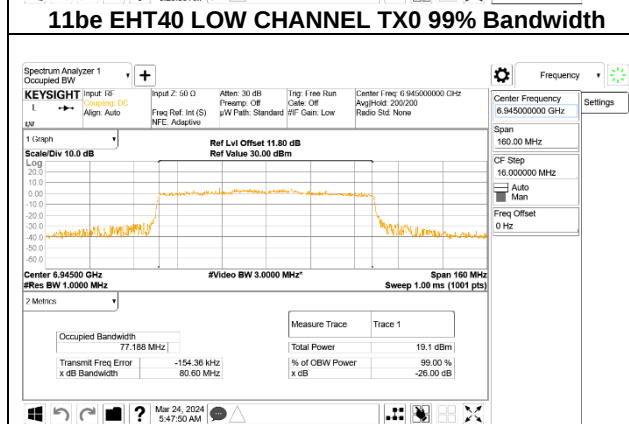
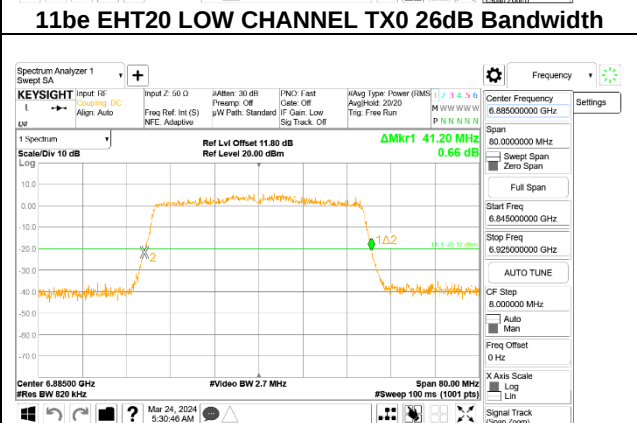
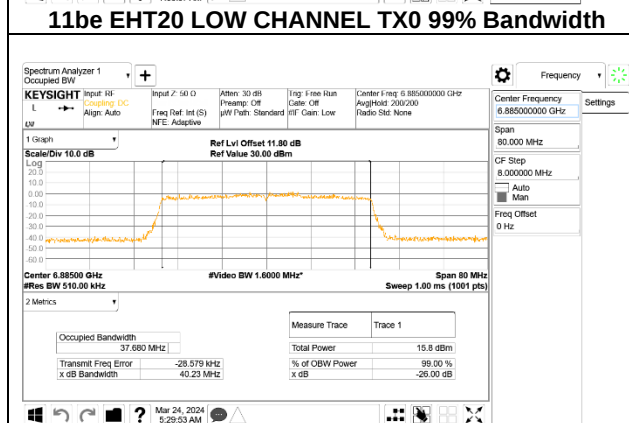
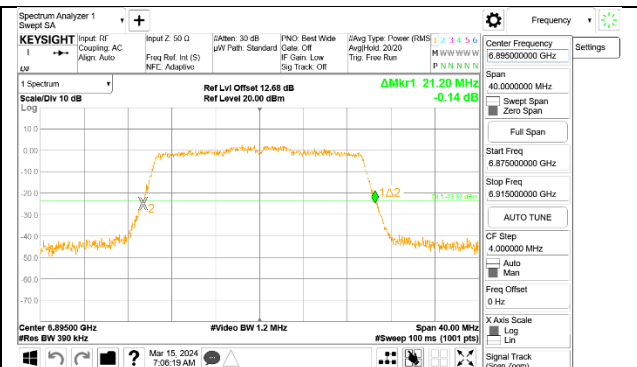
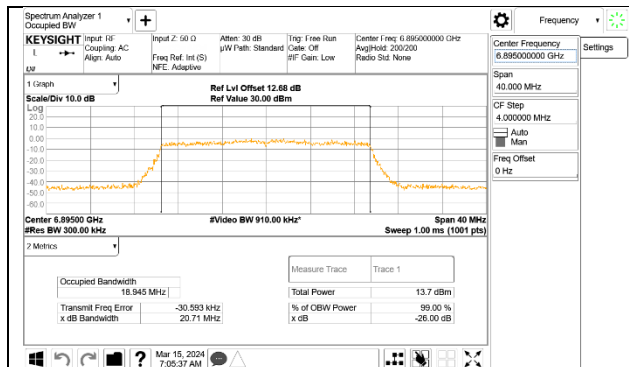
Band (GHz)	No. of Tx	Mode	Channel	Freq (MHz)	Tones	RU Index	99% Bandwidth (MHz)		26dB Bandwidth (MHz)	
							Tx0	Tx1	Tx0	Tx1
UNII_6	2	11a	97	6435			16.768	16.656	21.28	21.04
			105	6475			16.670	16.656	21.36	21.00
			113	6515			16.712	16.730	21.24	21.28
		11be EHT20	97	6435	242T	61	18.956	18.949	21.52	21.28
			105	6475			18.897	18.932	21.56	21.52
			113	6515			18.927	18.918	21.44	21.32
		11be EHT40	99	6445	484T	65	37.707	37.615	41.04	40.96
			107	6485			37.651	37.671	40.96	40.80
			115 (Straddle)	6525			37.725	37.590	41.20	40.88
		11be EHT80	103	6465	996T	67	77.104	77.119	82.72	83.04
		11be EHT160	111 (Straddle)	6505	SU		156.920	156.990	269.76	273.60

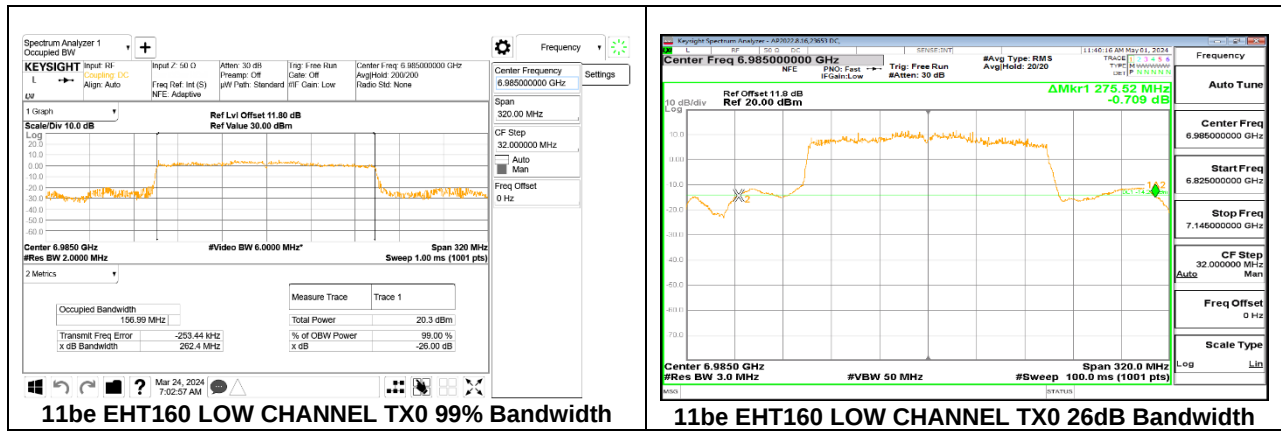
9.2.3. LOW POWER UNII-7

Band (GHz)	No. of Tx	Mode	Channel	Freq (MHz)	Tones	RU Index	99% Bandwidth (MHz)		26dB Bandwidth (MHz)	
							Tx0	Tx1	Tx0	Tx1
UNII_7	2	11a	117	6535			16.724	16.661	21.24	21.12
			153	6715			16.760	16.657	21.32	21.04
			181	6855			16.731	16.674	21.24	20.96
			185 (Straddle)	6875			16.761	16.610	21.28	21.16
		11be EHT20	117	6535	242T	61	18.931	18.956	21.56	21.40
			153	6715			18.940	18.968	21.52	21.36
			181	6855			18.961	18.979	21.44	21.48
			185 (Straddle)	6875			18.260	18.131	21.24	20.84
		11be EHT40	123	6565	484T	65	37.659	37.615	41.04	40.96
			147	6685			37.690	37.654	41.04	40.88
			179	6845			37.650	37.620	41.20	40.96
			119 (Straddle)	6545	996T	67	77.110	77.003	83.04	82.88
		11be EHT80	135	6625			89.994	81.367	177.48	168.80
			151	6705			77.132	77.184	83.20	83.04
			167	6785			99.419	105.110	198.20	158.72
			183 (Straddle)	6865			77.057	77.118	82.88	83.52
		11be EHT160	143	6665	SU		157.390	157.140	169.28	274.56
			175 (Straddle)	6825			156.870	157.150	169.92	168.32

9.2.4. LOW POWER UNII-8

Band (GHz)	No. of Tx	Mode	Channel	Freq (MHz)	Tones	RU Index	99% Bandwidth (MHz)		26dB Bandwidth (MHz)	
							Tx0	Tx1	Tx0	Tx1
UNII_8	2	11a	189	6895	242T	61	16.661	16.718	20.92	21.32
			209	6995			16.661	16.774	20.96	21.12
			229	7095			16.660	16.727	20.88	21.16
		11be EHT20	189	6895	484T	65	18.945	18.918	21.20	21.60
			209	6995			18.948	18.919	21.20	21.44
			229	7095			18.944	18.938	21.32	21.40
		11be EHT40	187 (Straddle)	6885			37.680	37.693	41.20	40.80
			203	6965			37.675	37.681	40.88	40.72
			227	7085			38.393	37.624	41.12	40.96
		11be EHT80	199	6945	996T	67	77.188	76.996	82.88	82.72
			215	7025			77.063	77.136	83.84	83.04
		11be EHT160	207	6985	SU		156.990	157.050	275.52	275.84





9.2.5. STANDARD POWER UNII-5

Band (GHz)	No. of Tx	Mode	Channel	Freq (MHz)	Tones	RU Index	99% Bandwidth (MHz)		26dB Bandwidth (MHz)	
							Tx0	Tx1	Tx0	Tx1
NII_5	2	11a	1	5955			16.655	16.501	21.28	21.00
			45	6175			16.672	16.554	21.08	21.00
			93	6415			16.639	16.628	21.20	21.04
		11be EHT20	1	5955	242T	61	18.944	18.863	21.56	21.36
			45	6175			18.879	18.933	21.48	21.12
			93	6415			18.909	18.941	21.44	21.32
		11be EHT40	3	5965	484T	65	37.625	37.631	40.96	40.80
			43	6165			37.597	37.657	41.12	40.96
			91	6405			37.660	37.628	41.04	40.64
		11be EHT80	7	5985	996T	67	77.018	77.042	83.04	82.72
			39	6145			77.073	77.090	83.04	83.20
			87	6385			77.086	77.133	83.20	82.88
		11be EHT160	15	6025	SU		156.280	157.430	168.96	261.44
			47	6185			156.620	156.300	169.60	240.64
			79	6345			156.460	156.690	224.96	226.56

9.2.6. STANDARD POWER UNII-7

Band (GHz)	No. of Tx	Mode	Channel	Freq (MHz)	Tones	RU Index	99% Bandwidth (MHz)		26dB Bandwidth (MHz)	
							Tx0	Tx1	Tx0	Tx1
NII_7	2	11a	117	6535			17.514	16.901	31.04	29.40
			153	6715			17.075	17.143	31.44	30.92
			181	6855			17.397	17.855	34.80	34.76
		11be EHT20	117	6535	242T	61	18.884	18.654	39.88	39.92
			153	6715			18.884	18.854	39.96	39.96
			181	6855			18.961	18.979	39.92	39.88
		11be EHT40	123	6565	484T	65	38.039	37.947	79.200	79.680
			147	6685			37.954	37.936	79.120	79.600
			179	6845			38.193	38.148	79.680	79.680
		11be EHT80	135	6625	996T	65	77.674	77.476	158.56	159.68
			151	6705			77.719	77.664	159.20	159.36
			167	6785			77.907	77.654	159.52	159.04
		11be EHT160	143	6665	SU	67	156.550	156.730	275.52	276.48

9.3. LOW POWER OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.925-7.125 GHz

(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 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

CDD MIMO Tx chains used uncorrelated gain for EIRP calculation and correlated gain for PSD EIRP calculation; The directional gains are as follows:

Band	Frequency Range (MHz)	Antenna Gain Peak Gain		Uncorrelated Chains	Correlated Chains
		Tx0 (dBi)	Tx1 (dBi)	Directional Gain (dBi)	Directional Gain (dBi)
NII_5	5925 - 6425	-5.40	-2.10	-3.44	-0.58
NII_6	6425 - 6525	-4.30	-7.30	-5.55	-2.66
NII_7	6525 - 6875	-3.20	-4.70	-3.89	-0.91
NII_8	6875 - 7125	-2.80	-4.50	-3.57	-0.60

Directional Gain Calculation:

ANSI C63.10-2013 section 14.4.3

Uncorrelated directional gain= $10 \cdot \text{LOG}((10^{(\text{Tx0}/10)} + 10^{(\text{Tx1}/10)})/2)$

Correlated directional Gain= $10 \cdot \text{LOG}(((10^{(\text{Tx0}/20)} + 10^{(\text{Tx1}/20)})^2)/2)$

Sample Calculation at UNII-5 Band:

Tx0=-5.4dBi, Tx1=-2.1dBi

Uncorrelated Antenna gain= $10 \log[(10^{(-5.4/10)} + 10^{(-2.1/10)})/2] = -3.44 \text{ dBi}$

Correlated Antenna gain= $10 \log[(10^{(-5.4/20)} + 10^{(-2.1/20)})^2/2] = -0.58 \text{ dBi}$

POWER CALCULATION:

P= measured conducted avg power (including cable loss + 10dB attenuator)

DCCF= duty cycle correction factor in dB

2Tx Total Corrected EIRP Power with DCCF (dBm)=

$10\log[10^{(P1+DCCF)/10} + 10^{(P2+DCCF)/10}] + (\text{uncorrelated directional gain})$

Sample Calculation LP UNII-5 EHT20 242T MIMO:

2Tx Total Corrected MIMO Conducted Avg EIRP Power (dBm)=

$10\log[10^{(5.36+0.15)/10} + 10^{(5.50+0.15)/10}] + (-3.44) = 5.14 \text{ dBm}$

PSD CALCULATION:

PSD= measured PSD (including cable loss + 10dB attenuator)

DCCF= duty cycle correction factor in dB

2Tx Corrected EIRP PSDwith DCCF (dBm/1MHz)=

$10\log[10^{(PSD1+DCCF)/10} + 10^{(PSD2+DCCF)/10}] + (\text{correlated directional gain})$

Sample Calculation LP UNII-5 EHT20 242T MIMO:

2Tx Corrected EIRP PSD with DCCF (dBm/1MHz)=

$10\log[10^{(-4.280+0.15)/10} + 10^{(-3.668+0.15)/10}] + (-0.58) = -1.39 \text{ dBm/1MHz}$

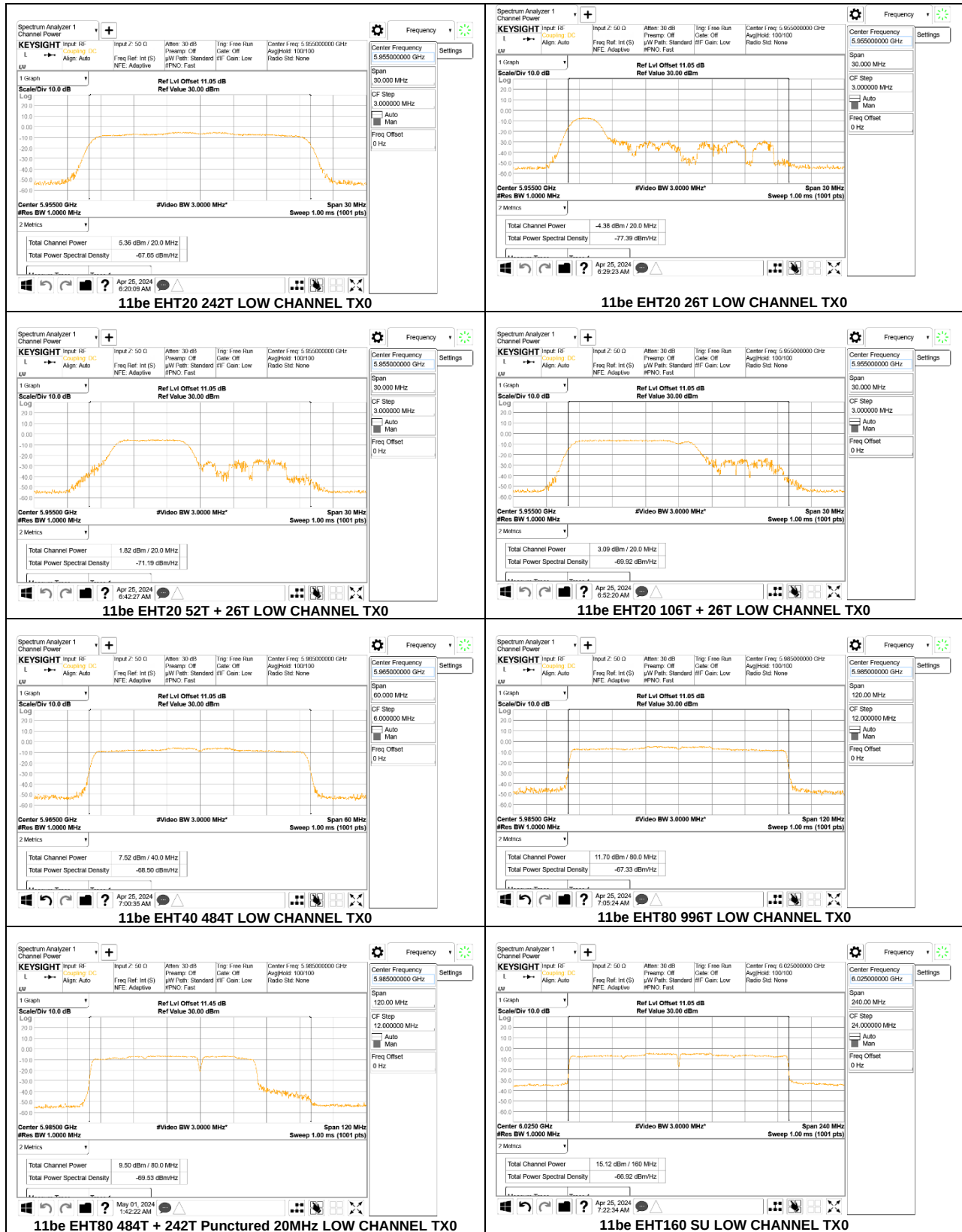
RESULTS

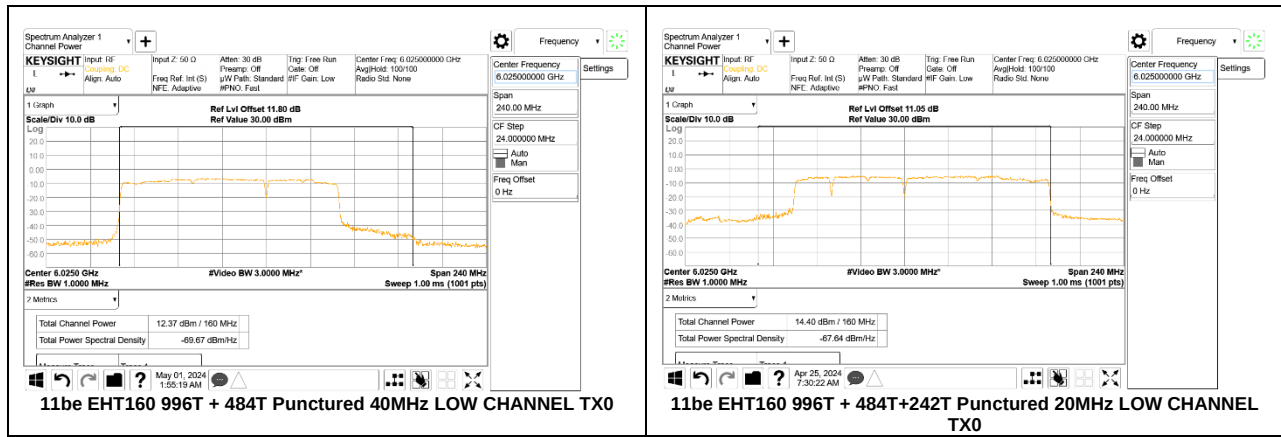
Partial plots included in PSD for each band are representative of the method and settings parameters used for the test. Partial power plots only shown in UNII-5 as representative of the method and settings parameters used for the test.

Test Engineer:	NM 19232, HN 27979, 32480 BY, 32181 SR
Test Date:	2024-02-01 TO 2024-05-06

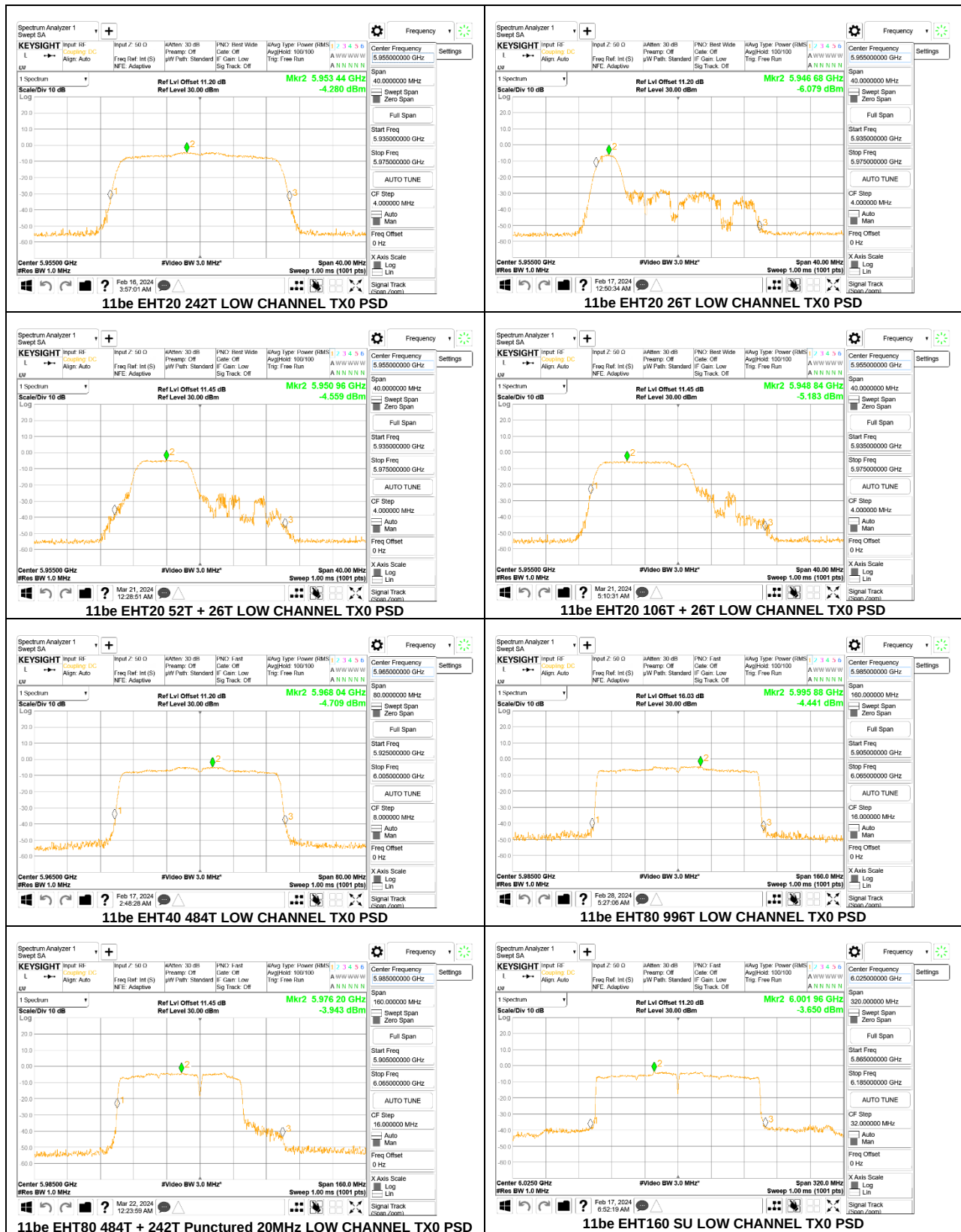
9.3.1. UNII-5

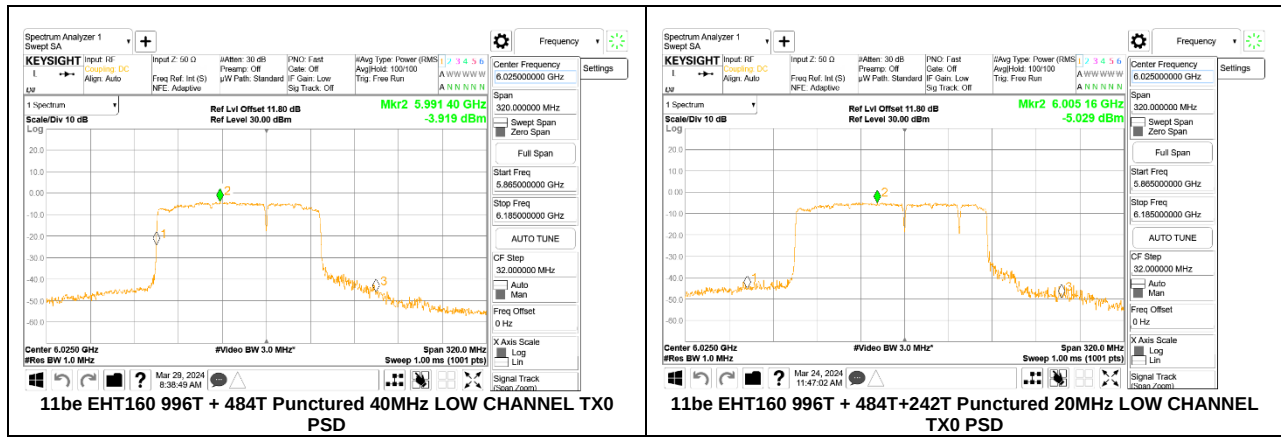
Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna Peak Gain (dBi) Tx0	Antenna Peak Gain (dBi) Tx1	Uncorrelated Directional Gain for Power (dBi)	Correlated Directional Gain for PSD (dBi)	Measured Conducted Avg Power (dBm) Tx0	Measured Conducted Avg Power (dBm) Tx1	Total Corrected EIRP Power with DCCF (dBm)	EIRP Power Limit (dBm)	Power Margin (dB)	PSD (dBm/1MHz) Tx0	PSD (dBm/1MHz) Tx1	Corrected EIRP PSD with DCCF (dBm/1MHz)	EIRP PSD Limit (dBm/1MHz)	EIRP PSD Margin (dB)
NII_S (LP)	2	11a	1	5955			-5.4	-2.1	-3.44	-0.58	4.89	5.02	4.52	24.00	-19.48	-4.120	-3.834	-1.55	-1.00	-0.55
			45	6175			-5.4	-2.1	-3.44	-0.58	5.50	5.63	5.13	24.00	-18.87	-4.281	-4.305	-1.87	-1.00	-0.87
			93	6415			-5.4	-2.1	-3.44	-0.58	4.87	4.97	4.49	24.00	-19.51	-4.520	-4.470	-2.07	-1.00	-1.07
		11be EHT20	1	5955			-5.4	-2.1	-3.44	-0.58	5.36	5.50	5.14	24.00	-18.86	-4.280	-3.668	-1.39	-1.00	-0.39
			45	6175			-5.4	-2.1	-3.44	-0.58	6.03	5.77	5.62	24.00	-18.38	-4.261	-4.558	-1.83	-1.00	-0.83
			93	6415			-5.4	-2.1	-3.44	-0.58	4.85	5.41	4.85	24.00	-19.15	-4.876	-4.624	-2.17	-1.00	-1.17
			1	5955			-5.4	-2.1	-3.44	-0.58	2.01	2.51	1.96	24.00	-22.04	-5.546	-5.220	-2.83	-1.00	-1.83
			45	6175			-5.4	-2.1	-3.44	-0.58	2.57	2.67	2.31	24.00	-21.69	-5.433	-5.327	-2.83	-1.00	-1.83
			93	6415			-5.4	-2.1	-3.44	-0.58	1.78	2.36	1.77	24.00	-22.23	-5.910	-5.559	-3.18	-1.00	-2.18
			1	5955			-5.4	-2.1	-3.44	-0.58	-1.24	-0.60	-1.22	24.00	-25.22	-5.400	-4.757	-2.52	-1.00	-1.52
			45	6175			-5.4	-2.1	-3.44	-0.58	-1.86	-1.56	-2.02	24.00	-26.02	-6.869	-6.452	-4.10	-1.00	-3.10
			93	6415			-5.4	-2.1	-3.44	-0.58	-1.91	-1.37	-1.94	24.00	-25.94	-6.681	-6.350	-3.96	-1.00	-2.96
			1	5955			-5.4	-2.1	-3.44	-0.58	-4.38	-3.66	-4.33	24.00	-28.33	-6.079	-5.392	-3.19	-1.00	-2.19
			45	6175			-5.4	-2.1	-3.44	-0.58	-4.79	-4.53	-4.99	24.00	-28.99	-8.171	-7.714	-5.40	-1.00	-4.40
			93	6415			-5.4	-2.1	-3.44	-0.58	-4.81	-4.37	-4.91	24.00	-28.91	-7.162	-6.482	-4.28	-1.00	-3.28
		11be EHT40	1	5955			-5.4	-2.1	-3.44	-0.58	1.82	1.92	1.44	24.00	-22.56	-4.559	-4.364	-2.03	-1.00	-1.03
			45	6175			-5.4	-2.1	-3.44	-0.58	1.92	1.86	1.46	24.00	-22.54	-4.694	-4.460	-2.15	-1.00	-1.15
			93	6415			-5.4	-2.1	-3.44	-0.58	1.46	1.75	1.17	24.00	-22.83	-5.079	-4.552	-2.38	-1.00	-1.38
			1	5955			-5.4	-2.1	-3.44	-0.58	3.09	3.38	2.80	24.00	-21.20	-5.183	-5.015	-2.67	-1.00	-1.67
			45	6175			-5.4	-2.1	-3.44	-0.58	4.02	3.74	3.45	24.00	-20.55	-4.767	-5.324	-2.61	-1.00	-1.61
			93	6415			-5.4	-2.1	-3.44	-0.58	3.32	3.59	3.02	24.00	-20.98	-5.212	-5.223	-2.79	-1.00	-1.79
			3	5965			-5.4	-2.1	-3.44	-0.58	7.52	7.78	7.49	24.00	-16.51	-4.709	-4.368	-1.84	-1.00	-0.84
			43	6165			-5.4	-2.1	-3.44	-0.58	8.14	8.15	7.98	24.00	-16.02	-4.953	-4.716	-2.13	-1.00	-1.13
			91	6405			-5.4	-2.1	-3.44	-0.58	7.38	7.49	7.27	24.00	-16.73	-5.455	-5.355	-2.71	-1.00	-1.71
		11be EHT80	7	5985			-5.4	-2.1	-3.44	-0.58	11.70	11.65	11.74	24.00	-12.26	-4.441	-4.066	-1.33	-1.00	-0.33
			39	6145			-5.4	-2.1	-3.44	-0.58	11.45	11.10	11.34	24.00	-12.66	-4.153	-4.371	-1.34	-1.00	-0.34
			87	6385			-5.4	-2.1	-3.44	-0.58	11.52	11.44	11.54	24.00	-12.46	-4.238	-4.014	-1.20	-1.00	-0.20
			7	5985			-5.4	-2.1	-3.44	-0.58	9.50	9.43	9.13	24.00	-14.87	-3.943	-4.385	-1.63	-1.00	-0.63
			39	6145			-5.4	-2.1	-3.44	-0.58	9.44	9.28	9.03	24.00	-14.97	-4.374	-5.080	-2.18	-1.00	-1.18
			87	6385			-5.4	-2.1	-3.44	-0.58	9.40	8.32	8.56	24.00	-15.44	-3.493	-4.189	-1.30	-1.00	-0.30
		11be EHT160	15	6025			-5.4	-2.1	-3.44	-0.58	15.12	14.61	14.65	24.00	-9.35	-3.650	-4.202	-1.28	-1.00	-0.28
			47	6185			-5.4	-2.1	-3.44	-0.58	14.85	14.22	14.32	24.00	-9.68	-4.211	-4.618	-1.77	-1.00	-0.77
			79	6345			-5.4	-2.1	-3.44	-0.58	15.05	14.82	14.71	24.00	-9.29	-4.077	-4.150	-1.48	-1.00	-0.48
			15	6025			-5.4	-2.1	-3.44	-0.58	12.37	12.13	12.39	24.00	-11.61	-3.919	-4.716	-1.30	-1.00	-0.30
			47	6185			-5.4	-2.1	-3.44	-0.58	12.42	12.11	12.41	24.00	-11.59	-5.494	-5.461	-2.48	-1.00	-1.48
			79	6345			-5.4	-2.1	-3.44	-0.58	12.46	11.48	12.14	24.00	-11.86	-4.125	-5.308	-1.68	-1.00	-0.68
			15	6025			-5.4	-2.1	-3.44	-0.58	14.40	14.29	14.44	24.00	-9.56	-5.029	-4.574	-1.84	-1.00	-0.84
			47	6185			-5.4	-2.1	-3.44	-0.58	13.93	13.24	13.70	24.00	-10.30	-4.626	-5.059	-1.88	-1.00	-0.88
			79	6345			-5.4	-2.1	-3.44	-0.58	14.46	13.50	14.11	24.00	-9.89	-5.126	-5.972	-2.57	-1.00	-1.57

POWER



PSD

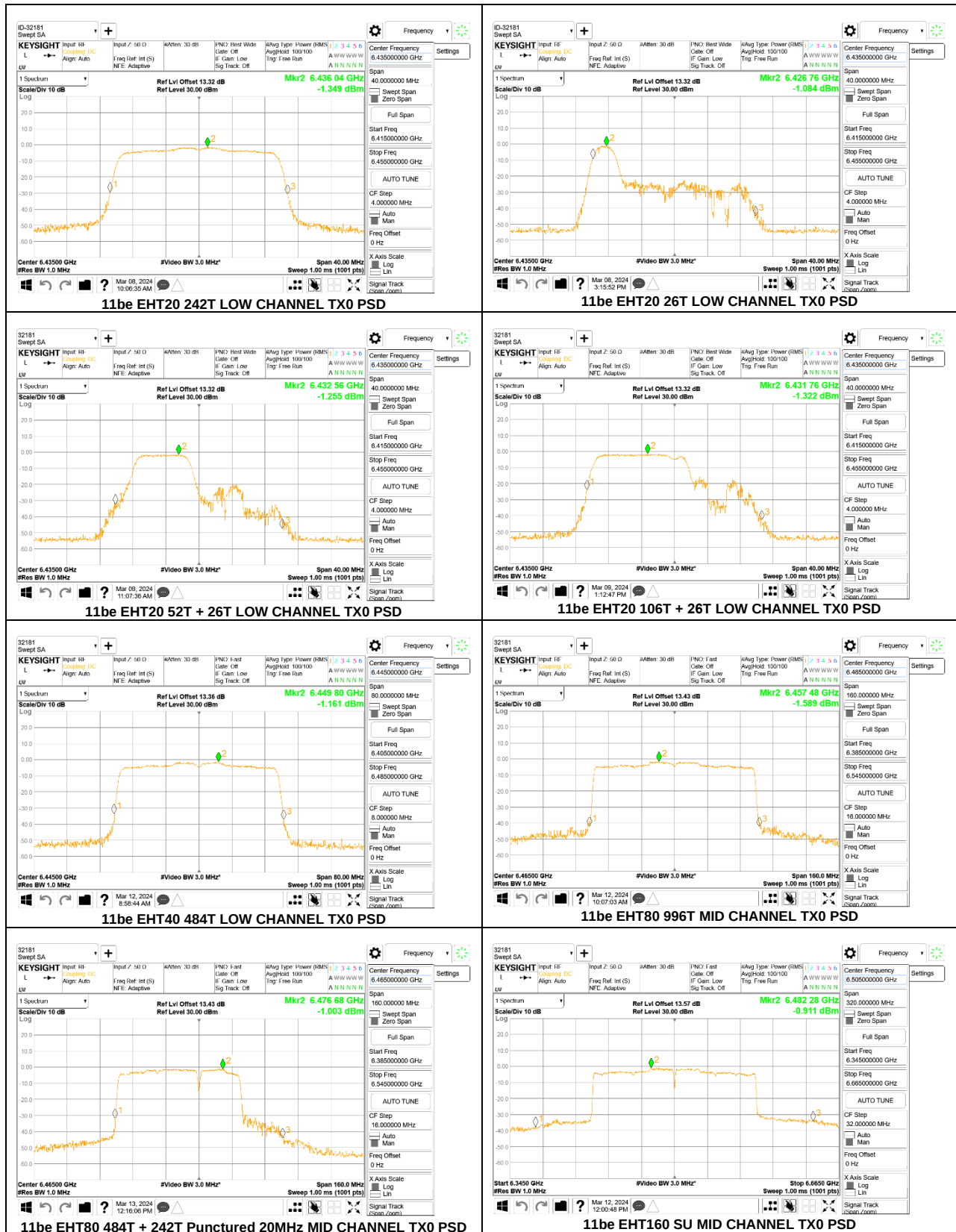


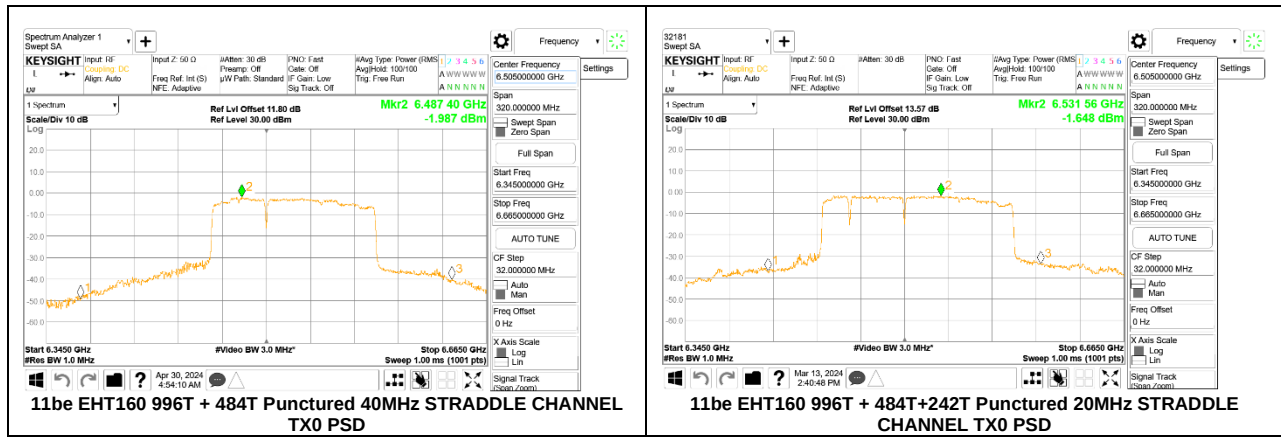


9.3.2. UNII-6

Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna Peak Gain (dBi)	Antenna Peak Gain (dBi)	Uncorrelated Directional Gain for Power	Correlated Directional Gain for PSD	Measured Conducted Avg Power (dBm)	Measured Conducted Avg Power (dBm)	Total Corrected EIRP Power with DCCF	EIRP Power Limit	Power Margin	PSD (dBm/1MHz)	PSD (dBm/1MHz)	Corrected EIRP PSD with DCCF (dBm/1MHz)	EIRP PSD Limit (dBm/1MHz)	EIRP PSD Margin (dB)
							Tx0	Tx1	(dB)	(dB)	Tx0	Tx1	(dBm)	(dBm)	(dB)	Tx0	Tx1	(dBm/1MHz)	(dBm/1MHz)	(dB)
NII_6 (LP)	2	11a	97	6435			-4.3	-7.3	-5.55	-2.66	8.90	6.89	5.47	24.00	-18.53	-1.227	-3.029	-1.69	-1.00	-0.69
			105	6475			-4.3	-7.3	-5.55	-2.66	8.56	7.36	5.47	24.00	-18.53	-1.371	-2.639	-1.61	-1.00	-0.61
			113	6515			-4.3	-7.3	-5.55	-2.66	9.00	6.77	5.49	24.00	-18.51	-0.811	-2.949	-1.40	-1.00	-0.40
			97	6435			-4.3	-7.3	-5.55	-2.66	8.97	7.62	5.96	24.00	-18.04	-1.349	-2.678	-1.47	-1.00	-0.47
			105	6475	242T	61	-4.3	-7.3	-5.55	-2.66	9.25	7.39	6.03	24.00	-17.97	-1.131	-2.980	-1.46	-1.00	-0.46
			113	6515			-4.3	-7.3	-5.55	-2.66	9.30	7.25	6.01	24.00	-17.99	-0.867	-3.280	-1.41	-1.00	-0.41
			97	6435			-4.3	-7.3	-5.55	-2.66	6.55	4.71	3.31	24.00	-20.69	-1.399	-3.032	-1.67	-1.00	-0.67
			105	6475	106T	53	-4.3	-7.3	-5.55	-2.66	6.80	5.13	3.63	24.00	-20.37	-1.441	-3.014	-1.68	-1.00	-0.68
			113	6515			-4.3	-7.3	-5.55	-2.66	6.91	5.35	3.79	24.00	-20.21	-1.170	-2.859	-1.46	-1.00	-0.46
		97	6435			37	-4.3	-7.3	-5.55	-2.66	3.58	1.84	0.39	24.00	-23.61	-1.364	-3.279	-1.74	-1.00	-0.74
		105	6475	52T	38	-4.3	-7.3	-5.55	-2.66	4.26	2.08	0.89	24.00	-23.11	-1.448	-3.027	-1.69	-1.00	-0.69	
		113	6515			40	-4.3	-7.3	-5.55	-2.66	4.29	2.18	0.95	24.00	-23.05	-1.597	-2.837	-1.70	-1.00	-0.70
		97	6435			0	-4.3	-7.3	-5.55	-2.66	1.17	-0.67	-2.08	24.00	-26.08	-1.084	-3.259	-1.58	-1.00	-0.58
		105	6475	26T	4	-4.3	-7.3	-5.55	-2.66	2.03	0.50	-1.10	24.00	-25.10	-1.140	-3.034	-1.53	-1.00	-0.53	
		113	6515			8	-4.3	-7.3	-5.55	-2.66	1.09	-0.29	-1.98	24.00	-25.98	-1.452	-3.081	-1.74	-1.00	-0.74
		97	6435			70	-4.3	-7.3	-5.55	-2.66	5.56	4.00	2.31	24.00	-21.69	-1.755	-2.807	-1.61	-1.00	-0.61
		105	6475	52T + 26T	71	-4.3	-7.3	-5.55	-2.66	5.76	3.97	2.42	24.00	-21.58	-1.071	-2.828	-1.51	-1.00	-0.51	
		113	6515			72	-4.3	-7.3	-5.55	-2.66	5.76	3.51	2.24	24.00	-21.76	-1.123	-3.207	-1.69	-1.00	-0.69
		97	6435			82	-4.3	-7.3	-5.55	-2.66	7.56	6.13	4.37	24.00	-19.63	-1.322	-2.943	-1.71	-1.00	-0.71
		105	6475	106T + 26T	83	-4.3	-7.3	-5.55	-2.66	7.25	6.00	4.13	24.00	-19.87	-1.020	-3.015	-1.55	-1.00	-0.55	
		113	6515			-4.3	-7.3	-5.55	-2.66	8.23	6.20	4.80	24.00	-19.20	-1.021	-2.989	-1.54	-1.00	-0.54	
		99	6445			-4.3	-7.3	-5.55	-2.66	11.60	10.00	8.61	24.00	-15.39	-1.161	-2.986	-1.36	-1.00	-0.36	
		*115 (Straddle)	6525	484T	65	-3.2	-4.7	-3.89	-0.91	9.05	8.14	8.02	24.00	-15.98	-3.740	-4.340	-1.65	-1.00	-0.65	
		103	6465	996T	67	-4.3	-7.3	-5.55	-2.66	14.27	12.56	11.46	24.00	-12.54	-1.589	-3.424	-1.56	-1.00	-0.56	
		103	6465	484T + 242T Puncture 20MHz	8	-4.3	-7.3	-5.55	-2.66	14.28	12.12	10.90	24.00	-13.10	-1.003	-3.400	-1.59	-1.00	-0.59	
		111 (Straddle)	6505	SU		-4.3	-7.3	-5.55	-2.66	18.27	16.58	15.18	24.00	-8.82	-0.911	-2.983	-1.27	-1.00	-0.27	
		111 (Straddle)	6505	996T + 484T Puncture 40MHz	3	-4.3	-7.3	-5.55	-2.66	16.08	15.35	13.77	24.00	-10.23	-1.987	-2.834	-1.47	-1.00	-0.47	
		111 (Straddle)	6505	996T + 484T + 242T Puncture 20MHz	1	-4.3	-7.3	-5.55	-2.66	17.57	15.34	14.59	24.00	-9.41	-1.648	-3.986	-1.78	-1.00	-0.78	

*straddle channel 115, 6525MHz using UNII-7 uncorrelated/correlated directional gain as worse case.

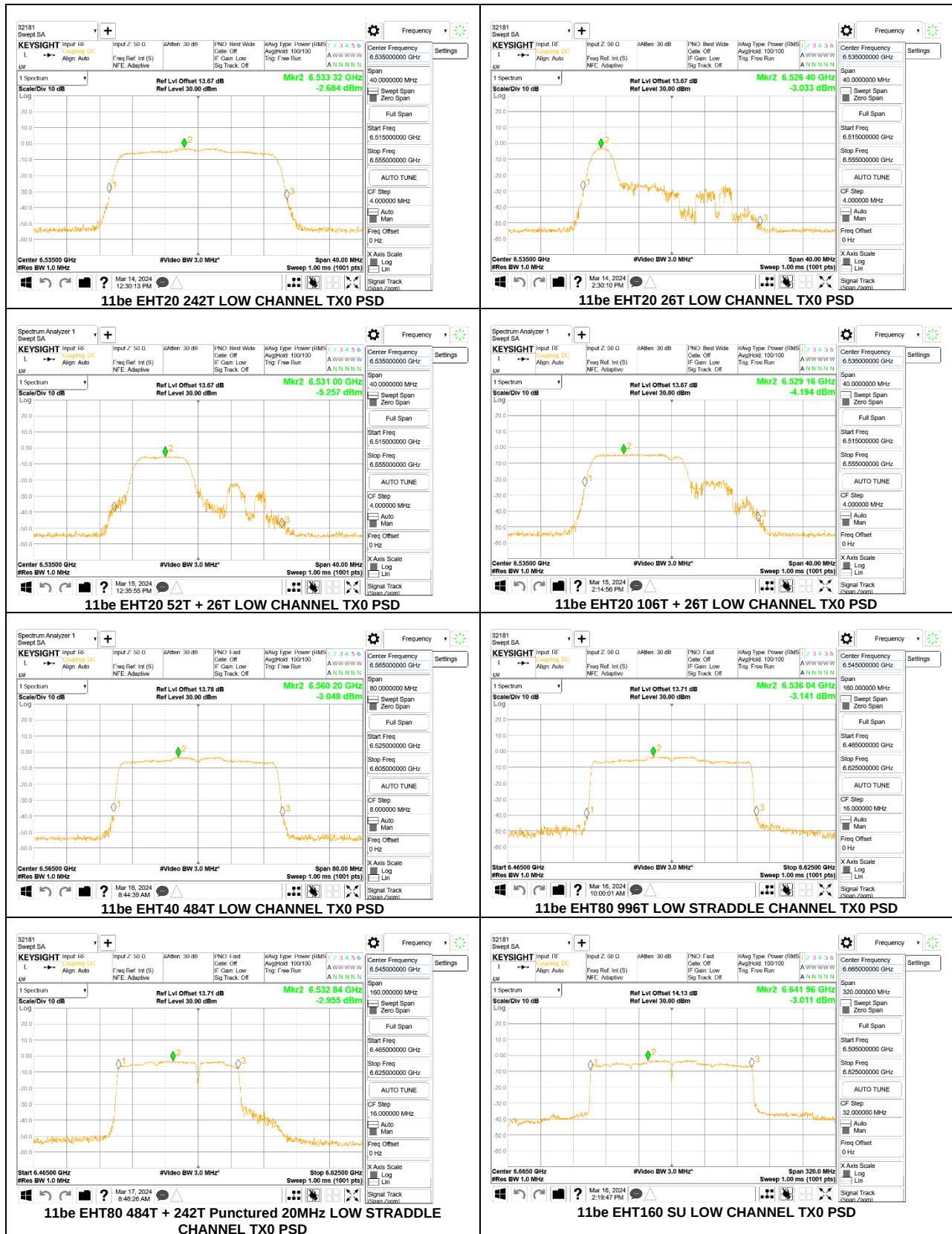


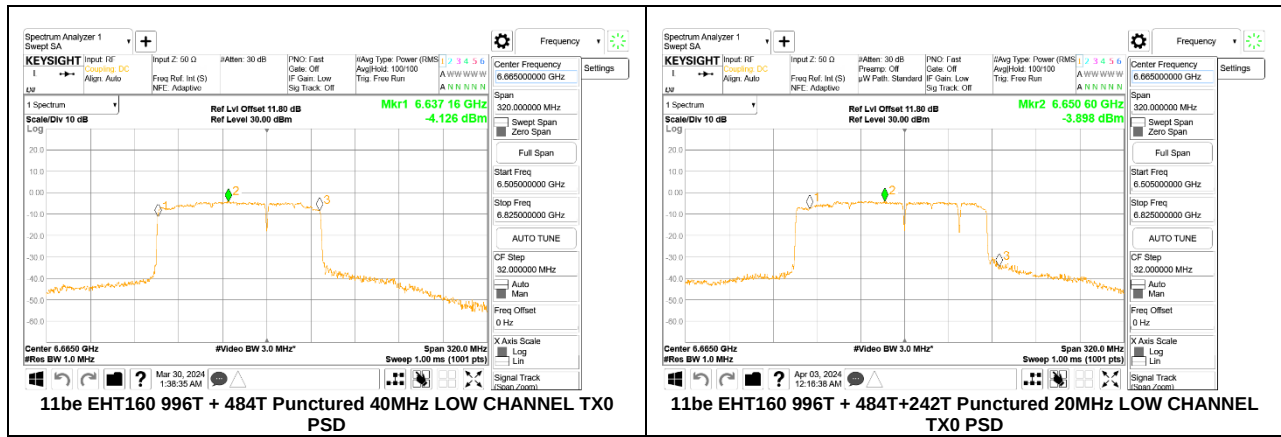


9.3.3. UNII-7

Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna Peak Gain (dBi)	Antenna Peak Gain (dBi)	Uncorrelated Directional Gain for Power (dBi)	Correlated Directional Gain for PSD (dBi)	Measured Conducted Avg Power (dBm)	Measured Conducted Avg Power (dBm)	Total Corrected EIRP Power with DCCF (dBm)	EIRP Power Limit (dBm)	Power Margin (dB)	PSD (dBm/1MHz)	PSD (dBm/1MHz)	Corrected EIRP PSD with DCCF (dBm/1MHz)	EIRP PSD Limit (dBm/1MHz)	EIRP PSD Margin (dB)	
							Tx0	Tx1	(dB)	(dB)	Tx0	Tx1	(dBm)	(dBm)	(dB)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)	
NII_7 (LP)	2	11a	117	6535	242T	61	-3.2	-4.7	-3.89	-0.91	7.05	5.48	5.46	24.00	-18.54	-2.819	-3.880	-1.21	-1.00	-0.21	
			153	6715			-3.2	-4.7	-3.89	-0.91	7.28	5.38	5.56	24.00	-18.44	-2.472	-4.393	-1.22	-1.00	-0.22	
			185 (Straddle)	6875			-2.8	-4.5	-3.57	-0.60	7.14	5.44	5.82	24.00	-18.18	-4.107	-3.908	-1.59	-1.00	-0.59	
		117	6535	53		-3.2	-4.7	-3.89	-0.91	6.87	5.46	5.49	24.00	-18.51	-2.684	-4.584	-1.28	-1.00	-0.28		
		153	6715			-3.2	-4.7	-3.89	-0.91	7.07	5.63	5.68	24.00	-18.32	-2.827	-4.609	-1.38	-1.00	-0.38		
		185 (Straddle)	6875			-2.8	-4.5	-3.57	-0.60	7.88	5.58	6.47	24.00	-17.53	-3.852	-3.960	-1.35	-1.00	-0.35		
		117	6535	54		-3.2	-4.7	-3.89	-0.91	5.02	3.48	3.57	24.00	-20.43	-3.037	-4.720	-1.57	-1.00	-0.57		
		153	6715			-3.2	-4.7	-3.89	-0.91	4.00	3.07	2.81	24.00	-21.19	-2.979	-4.738	-1.54	-1.00	-0.54		
		185 (Straddle)	6875			-2.8	-4.5	-3.57	-0.60	5.00	2.98	3.67	24.00	-20.33	-3.071	-4.951	-1.38	-1.00	-0.38		
		117	6535	37		-3.2	-4.7	-3.89	-0.91	2.26	0.68	0.79	24.00	-23.21	-2.953	-4.640	-1.49	-1.00	-0.49		
		153	6715			-3.2	-4.7	-3.89	-0.91	2.65	0.64	1.01	24.00	-22.99	-2.798	-4.726	-1.43	-1.00	-0.43		
		185 (Straddle)	6875			-2.8	-4.5	-3.57	-0.60	2.57	0.17	1.10	24.00	-22.90	-3.952	-4.129	-1.50	-1.00	-0.50		
		117	6535	0		-3.2	-4.7	-3.89	-0.91	-0.50	-2.25	-2.06	24.00	-26.06	-3.033	-4.495	-1.49	-1.00	-0.49		
		153	6715			4	-3.2	-4.7	-3.89	-0.91	-0.40	-2.15	-1.96	24.00	-25.96	-3.095	-4.667	-1.60	-1.00	-0.60	
		185 (Straddle)	6875			8	-2.8	-4.5	-3.57	-0.60	-2.32	-2.19	-2.71	24.00	-26.71	-4.200	-4.412	-1.79	-1.00	-0.79	
		117	6535	70		-3.2	-4.7	-3.89	-0.91	1.81	5.55	3.20	24.00	-20.80	-5.257	-2.300	-1.43	-1.00	-0.43		
		153	6715			71	-3.2	-4.7	-3.89	-0.91	1.92	4.25	2.36	24.00	-21.64	-4.585	-2.620	-1.39	-1.00	-0.39	
		185 (Straddle)	6875			72	-2.8	-4.5	-3.57	-0.60	2.07	3.15	2.09	24.00	-21.91	-4.512	-3.898	-1.78	-1.00	-0.78	
		117	6535	82		-3.2	-4.7	-3.89	-0.91	5.05	6.48	4.95	24.00	-19.05	-4.194	-2.791	-1.33	-1.00	-0.33		
		153	6715			-3.2	-4.7	-3.89	-0.91	6.00	5.97	5.11	24.00	-18.89	-4.667	-3.001	-1.65	-1.00	-0.65		
		185 (Straddle)	6875			83	-2.8	-4.5	-3.57	-0.60	4.22	4.68	3.90	24.00	-20.10	-3.713	-3.980	-1.43	-1.00	-0.43	
		11be EHT40	123	6565		484T	65	-3.2	-4.7	-3.89	-0.91	10.26	8.85	9.01	24.00	-14.99	-3.048	-4.286	-1.25	-1.00	-0.25
			147	6685			-3.2	-4.7	-3.89	-0.91	10.00	8.98	8.92	24.00	-15.08	-2.984	-4.405	-1.26	-1.00	-0.26	
			179	6845			-3.2	-4.7	-3.89	-0.91	10.09	8.26	8.67	24.00	-15.33	-2.943	-4.954	-1.46	-1.00	-0.46	
		11be EHT80	119 (Straddle)	6545		996T	67	-3.2	-4.7	-3.89	-0.91	13.04	11.37	11.91	24.00	-12.09	-3.141	-4.867	-1.32	-1.00	-0.32
			151	6705			-3.2	-4.7	-3.89	-0.91	13.18	10.61	11.70	24.00	-12.30	-2.994	-5.606	-1.51	-1.00	-0.51	
			*183 (Straddle)	6865			-2.8	-4.5	-3.57	-0.60	13.08	10.23	11.82	24.00	-12.18	-3.124	-5.861	-1.37	-1.00	-0.37	
			119 (Straddle)	6545			8	-3.2	-4.7	-3.89	-0.91	12.57	11.10	11.12	24.00	-12.88	-2.955	-4.634	-1.51	-1.00	-0.51
			151	6705			2	-3.2	-4.7	-3.89	-0.91	11.40	10.35	10.13	24.00	-13.87	-3.550	-4.409	-1.75	-1.00	-0.75
		11be EHT160	*183 (Straddle)	6865		Puncture 20MHz	1	-2.8	-4.5	-3.57	-0.60	11.95	10.33	10.76	24.00	-13.24	-3.857	-5.271	-1.99	-1.00	-0.99
			143	6665			SU	-3.2	-4.7	-3.89	-0.91	16.57	14.03	14.82	24.00	-9.18	-3.011	-5.041	-1.60	-1.00	-0.60
			*175 (Straddle)	6825		996T + 484T Puncture 40MHz	-2.8	-4.5	-3.57	-0.60	16.06	14.34	14.94	24.00	-9.06	-3.272	-4.765	-1.33	-1.00	-0.33	
			143	6665			-3.2	-4.7	-3.89	-0.91	14.75	13.91	14.05	24.00	-9.95	-4.126	-4.560	-1.66	-1.00	-0.66	
			*175 (Straddle)	6825		996T + 484T + 242T Puncture 20MHz	-2.8	-4.5	-3.57	-0.60	14.60	12.88	13.84	24.00	-10.16	-4.000	-5.715	-1.79	-1.00	-0.79	
			143	6665			-3.2	-4.7	-3.89	-0.91	15.49	14.69	14.77	24.00	-9.23	-3.898	-4.725	-1.66	-1.00	-0.66	
			*175 (Straddle)	6825			128	-2.8	-4.5	-3.57	-0.60	15.27	13.89	14.61	24.00	-9.39	-4.105	-5.493	-1.80	-1.00	-0.80

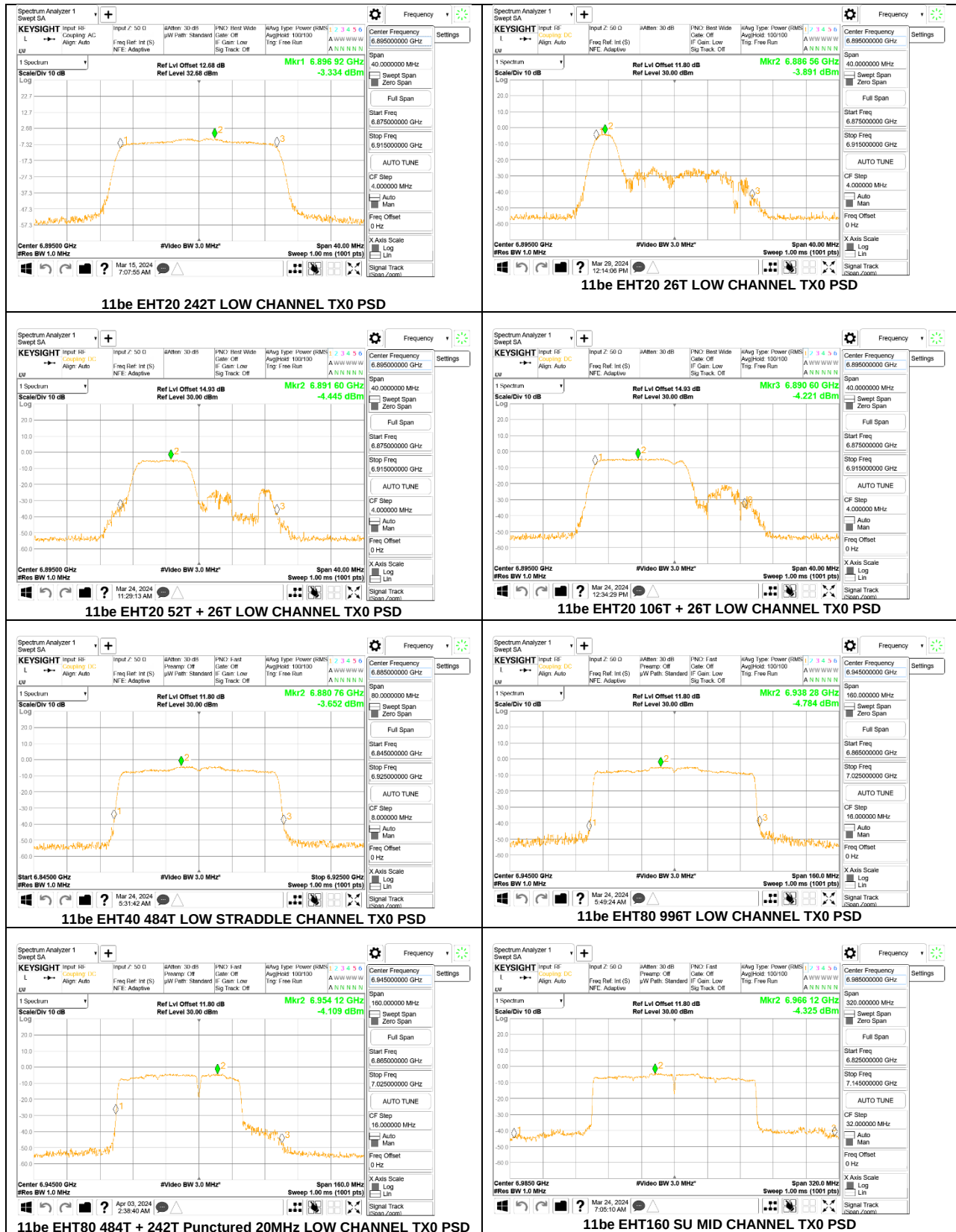
*straddle channel 185, 6875MHz, 183, 6865MHz, channel 175, 6825MHz using UNII-8 uncorrelated/correlated directional gain as worse case.

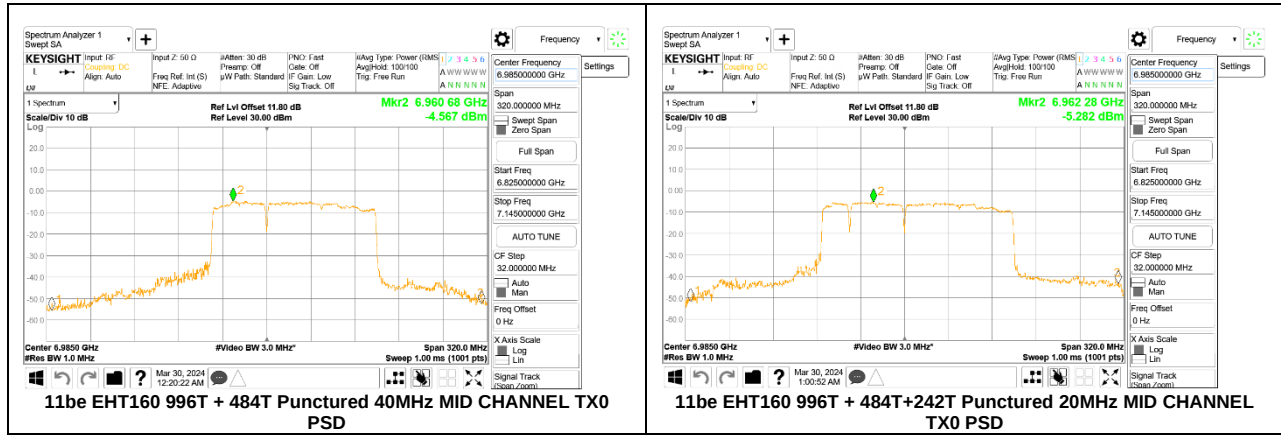




9.3.4. UNII-8

Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna Peak Gain (dBi) Tx0	Antenna Peak Gain (dBi) Tx1	Uncorrelated Directional Gain for Power (dBi)	Correlated Directional Gain for PSD (dBi)	Measured Conducted Avg Power (dBm) Tx0	Measured Conducted Avg Power (dBm) Tx1	Total Corrected EIRP Power with DCCF (dBm)	EIRP Power Limit (dBm)	Power Margin (dB)	PSD (dBm/1MHz) Tx0	PSD (dBm/1MHz) Tx1	Corrected EIRP PSD with DCCF (dBm/1MHz)	EIRP PSD Limit (dBm/1MHz)	EIRP PSD Margin (dB)
NII_8 (LP)	2	11a	189	6895			-2.8	-4.5	-3.57	-0.60	5.15	5.90	4.98	24.00	-19.02	-3.109	-4.993	-1.54	-1.00	-0.54
			209	6995			-2.8	-4.5	-3.57	-0.60	5.40	6.55	5.46	24.00	-18.54	-4.565	-3.565	-1.62	-1.00	-0.62
			229	7095			-2.8	-4.5	-3.57	-0.60	5.67	6.25	5.41	24.00	-18.59	-4.308	-3.649	-1.55	-1.00	-0.55
			189	6895			-2.8	-4.5	-3.57	-0.60	6.95	6.13	6.15	24.00	-17.85	-3.334	-4.462	-1.30	-1.00	-0.30
			209	6995			-2.8	-4.5	-3.57	-0.60	5.86	6.99	6.05	24.00	-17.95	-4.783	-3.546	-1.56	-1.00	-0.56
			229	7095			-2.8	-4.5	-3.57	-0.60	6.03	6.82	6.03	24.00	-17.97	-4.422	-3.668	-1.47	-1.00	-0.47
			189	6895			-2.8	-4.5	-3.57	-0.60	4.75	3.57	3.77	24.00	-20.23	-3.832	-4.642	-1.68	-1.00	-0.68
			209	6995			-2.8	-4.5	-3.57	-0.60	4.29	3.41	3.44	24.00	-20.56	-4.081	-4.679	-1.84	-1.00	-0.84
			229	7095			-2.8	-4.5	-3.57	-0.60	4.26	4.22	3.81	24.00	-20.19	-4.219	-4.225	-1.69	-1.00	-0.69
			189	6895			-2.8	-4.5	-3.57	-0.60	1.87	0.86	0.96	24.00	-23.04	-3.462	-4.508	-1.42	-1.00	-0.42
			209	6995			-2.8	-4.5	-3.57	-0.60	1.40	0.22	0.42	24.00	-23.58	-3.935	-5.174	-1.97	-1.00	-0.97
			229	7095			-2.8	-4.5	-3.57	-0.60	1.23	0.70	0.54	24.00	-23.46	-4.132	-4.302	-1.68	-1.00	-0.68
			189	6895			-2.8	-4.5	-3.57	-0.60	-1.30	-1.95	-2.06	24.00	-26.06	-3.891	-4.386	-1.61	-1.00	-0.61
			209	6995			-2.8	-4.5	-3.57	-0.60	-0.45	-1.85	-1.55	24.00	-25.55	-3.755	-4.957	-1.80	-1.00	-0.80
			229	7095			-2.8	-4.5	-3.57	-0.60	-0.91	-2.05	-1.89	24.00	-25.89	-3.438	-4.742	-1.52	-1.00	-0.52
			189	6895			-2.8	-4.5	-3.57	-0.60	4.98	3.17	3.61	24.00	-20.39	-4.445	-3.344	-1.45	-1.00	-0.45
			209	6995			-2.8	-4.5	-3.57	-0.60	3.26	2.15	2.18	24.00	-21.82	-3.485	-4.900	-1.72	-1.00	-0.72
			229	7095			-2.8	-4.5	-3.57	-0.60	1.65	1.95	1.25	24.00	-22.75	-3.787	-4.601	-1.76	-1.00	-0.76
			189	6895			-2.8	-4.5	-3.57	-0.60	5.53	4.48	4.48	24.00	-19.52	-4.221	-3.510	-1.44	-1.00	-0.44
			209	6995			-2.8	-4.5	-3.57	-0.60	5.36	4.11	4.22	24.00	-19.78	-3.942	-4.840	-1.96	-1.00	-0.96
			229	7095			-2.8	-4.5	-3.57	-0.60	5.27	4.42	4.31	24.00	-19.69	-4.087	-4.344	-1.80	-1.00	-0.80
			187 (Straddle)	6885			-2.8	-4.5	-3.57	-0.60	8.98	8.21	8.33	24.00	-15.67	-3.652	-4.701	-1.46	-1.00	-0.46
			203	6965			-2.8	-4.5	-3.57	-0.60	8.66	7.73	7.94	24.00	-16.06	-3.973	-5.236	-1.87	-1.00	-0.87
			227	7085			-2.8	-4.5	-3.57	-0.60	9.58	9.05	9.04	24.00	-14.96	-4.133	-4.350	-1.56	-1.00	-0.56
			199	6945			-2.8	-4.5	-3.57	-0.60	12.44	10.67	11.58	24.00	-12.42	-4.784	-4.929	-1.95	-1.00	-0.95
			215	7025			-2.8	-4.5	-3.57	-0.60	12.18	10.42	11.33	24.00	-12.67	-4.302	-5.543	-1.97	-1.00	-0.97
			199	6945			-2.8	-4.5	-3.57	-0.60	11.05	9.50	9.89	24.00	-14.11	-4.109	-5.819	-2.37	-1.00	-1.37
			215	7025			-2.8	-4.5	-3.57	-0.60	11.54	8.87	9.95	24.00	-14.05	-4.129	-6.853	-2.77	-1.00	-1.77
			207	6985			-2.8	-4.5	-3.57	-0.60	15.12	13.54	14.05	24.00	-9.95	-4.325	-5.810	-2.38	-1.00	-1.38
			207	6985			-2.8	-4.5	-3.57	-0.60	13.98	11.70	13.00	24.00	-11.00	-4.567	-6.787	-2.55	-1.00	-1.55
			207	6985			-2.8	-4.5	-3.57	-0.60	14.00	11.85	13.03	24.00	-10.97	-5.282	-7.070	-3.14	-1.00	-2.14





9.4. STANDARD POWER OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.925-7.125 GHz

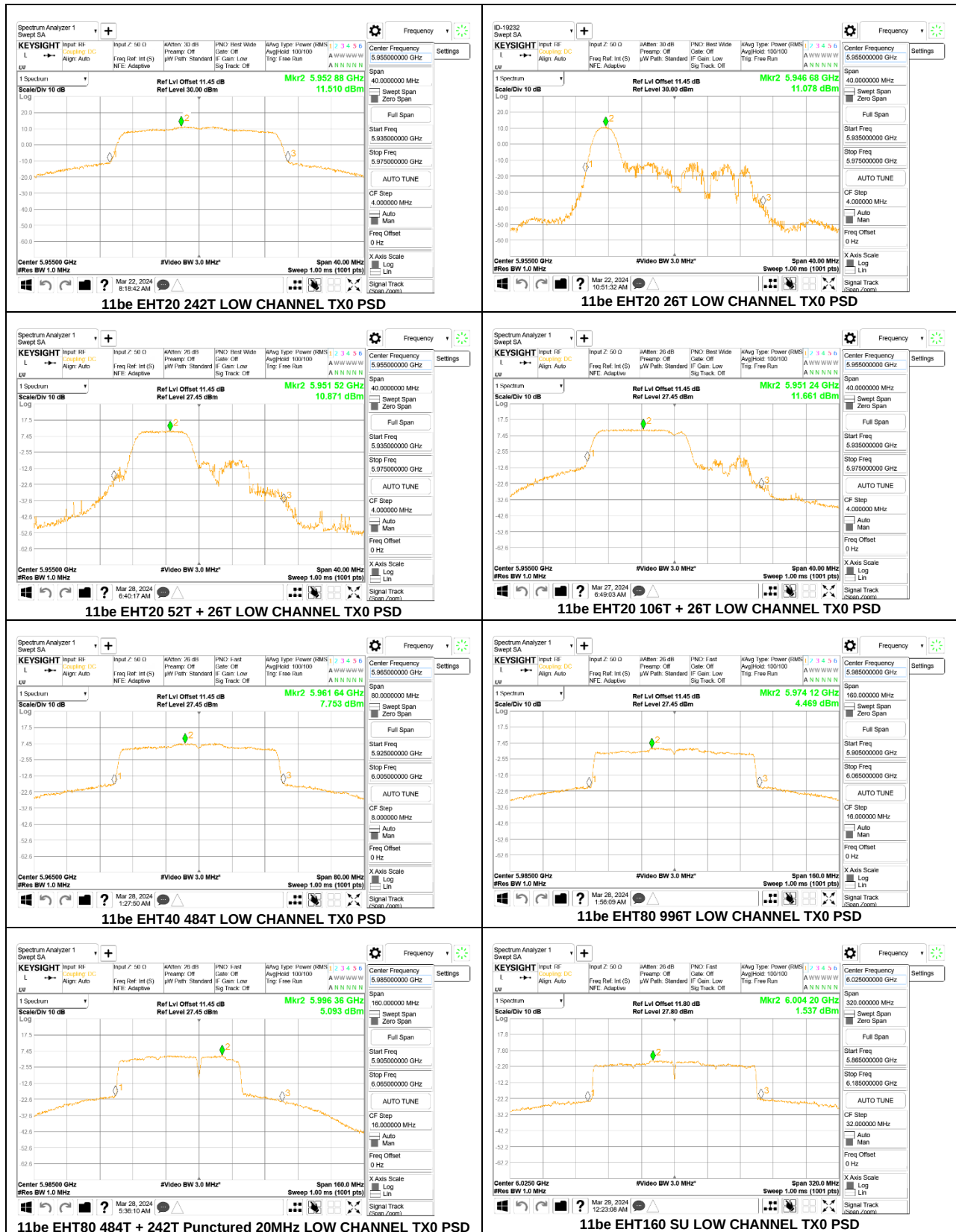
(7)For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

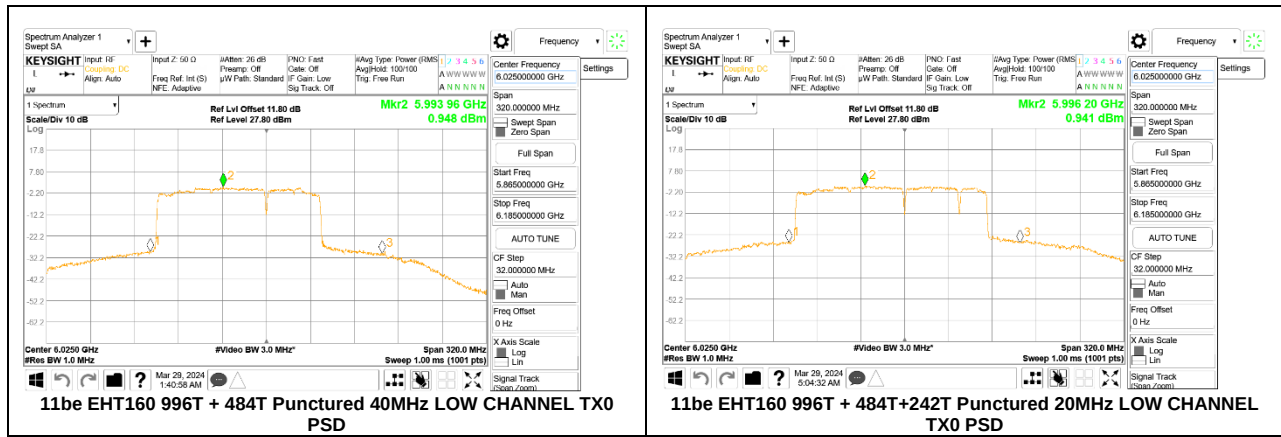
RESULT

Test Engineer:	NM 19232, HN 27979, 32480 BY, 32181 SR
Test Date:	2024-02-01 TO 2024-04-01

9.4.1. UNII-5

Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna Peak Gain (dBi) Tx0	Antenna Peak Gain (dBi) Tx1	Uncorrelated Directional Gain for Power (dBi)	Correlated Directional Gain for PSD (dBi)	Measured Conducted Avg Power (dBm) Tx0	Measured Conducted Avg Power (dBm) Tx1	Total Corrected EIRP Power with DCCF (dBm)	EIRP Power Limit (dBm)	Power Margin (dB)	PSD (dBm/1MHz) Tx0	PSD (dBm/1MHz) Tx1	Corrected EIRP PSD with DCCF (dBm/1MHz)	EIRP PSD Limit (dBm/1MHz)	EIRP PSD Margin (dB)
NII_5 (SP)	2	11a	1	5955			-5.4	-2.1	-3.44	-0.58	20.58	19.94	19.84	30.00	-10.16	12.802	11.196	14.50	17.00	-2.50
			45	6175			-5.4	-2.1	-3.44	-0.58	20.57	19.37	19.58	30.00	-10.42	11.565	10.538	13.51	17.00	-3.49
			93	6415			-5.4	-2.1	-3.44	-0.58	21.12	19.48	19.94	30.00	-10.06	12.246	10.562	13.91	17.00	-3.09
			1	5955	242T	61	-5.4	-2.1	-3.44	-0.58	20.38	19.66	19.75	30.00	-10.25	11.510	10.729	13.71	17.00	-3.29
			45	6175			-5.4	-2.1	-3.44	-0.58	20.51	19.21	19.62	30.00	-10.38	10.974	9.843	13.02	17.00	-3.98
			93	6415			-5.4	-2.1	-3.44	-0.58	21.05	19.41	20.02	30.00	-9.98	11.648	10.362	13.63	17.00	-3.37
			1	5955			-5.4	-2.1	-3.44	-0.58	17.90	17.36	17.33	30.00	-12.67	11.237	10.629	13.49	17.00	-3.51
			45	6175	106T	53	-5.4	-2.1	-3.44	-0.58	17.80	16.43	16.86	30.00	-13.14	10.448	9.078	12.37	17.00	-4.63
			93	6415			-5.4	-2.1	-3.44	-0.58	19.37	17.01	18.04	30.00	-11.96	11.173	9.970	13.16	17.00	-3.84
			1	5955			-5.4	-2.1	-3.44	-0.58	14.06	14.04	13.74	30.00	-16.26	10.067	10.478	12.83	17.00	-4.17
			45	6175	52T	38	-5.4	-2.1	-3.44	-0.58	14.62	13.75	13.90	30.00	-16.10	10.627	9.178	12.51	17.00	-4.49
			93	6415			-5.4	-2.1	-3.44	-0.58	15.16	14.13	14.37	30.00	-15.63	11.103	9.879	13.09	17.00	-3.91
			1	5955			-5.4	-2.1	-3.44	-0.58	11.71	11.89	11.47	30.00	-18.53	11.078	10.832	13.49	17.00	-3.51
			45	6175	26T	4	-5.4	-2.1	-3.44	-0.58	13.14	12.20	12.37	30.00	-17.63	9.384	10.203	12.34	17.00	-4.66
			93	6415			-5.4	-2.1	-3.44	-0.58	12.92	12.07	12.19	30.00	-17.81	11.550	10.470	13.58	17.00	-3.42
			1	5955			-5.4	-2.1	-3.44	-0.58	17.06	16.83	16.51	30.00	-13.49	10.871	10.681	13.20	17.00	-3.80
			45	6175	52T + 26T	71	-5.4	-2.1	-3.44	-0.58	17.60	16.39	16.60	30.00	-13.40	10.997	10.082	12.99	17.00	-4.01
			93	6415			-5.4	-2.1	-3.44	-0.58	17.24	16.62	16.51	30.00	-13.49	11.259	10.220	13.20	17.00	-3.80
			1	5955			-5.4	-2.1	-3.44	-0.58	19.61	18.93	18.85	30.00	-11.15	11.661	10.696	13.63	17.00	-3.37
			45	6175	106T + 26T	82	-5.4	-2.1	-3.44	-0.58	19.66	18.33	18.61	30.00	-11.39	10.705	9.401	12.53	17.00	-4.47
			93	6415			-5.4	-2.1	-3.44	-0.58	19.76	19.07	19.00	30.00	-11.00	11.118	10.514	13.25	17.00	-3.75
			3	5965			-5.4	-2.1	-3.44	-0.58	19.84	19.83	19.67	30.00	-10.33	7.753	7.745	10.45	17.00	-6.55
			43	6165	484T	65	-5.4	-2.1	-3.44	-0.58	21.65	19.81	20.67	30.00	-9.33	8.716	7.392	10.80	17.00	-6.20
			91	6405			-5.4	-2.1	-3.44	-0.58	21.82	19.79	20.76	30.00	-9.24	9.303	7.568	11.22	17.00	-5.78
			7	5985			-5.4	-2.1	-3.44	-0.58	19.97	19.64	19.87	30.00	-10.13	4.469	4.287	7.30	17.00	-9.70
			39	6145	996T	67	-5.4	-2.1	-3.44	-0.58	21.14	19.75	20.56	30.00	-9.44	5.447	3.819	7.63	17.00	-9.37
			87	6385			-5.4	-2.1	-3.44	-0.58	21.94	19.51	20.96	30.00	-9.04	5.459	4.090	7.75	17.00	-9.25
			7	5985	484T + 242T	8	-5.4	-2.1	-3.44	-0.58	19.66	19.06	19.04	30.00	-10.96	5.093	4.117	7.16	17.00	-9.84
			39	6145	Puncture	4	-5.4	-2.1	-3.44	-0.58	20.18	18.96	19.28	30.00	-10.72	5.546	4.161	7.44	17.00	-9.56
			87	6385	20MHz	1	-5.4	-2.1	-3.44	-0.58	21.25	19.44	20.11	30.00	-9.89	5.791	4.207	7.60	17.00	-9.40
			15	6025			-5.4	-2.1	-3.44	-0.58	19.85	19.24	19.33	30.00	-10.67	1.537	1.111	3.96	17.00	-13.04
			47	6185	SU		-5.4	-2.1	-3.44	-0.58	21.23	20.66	20.73	30.00	-9.27	1.783	1.679	4.37	17.00	-12.63
			79	6345			-5.4	-2.1	-3.44	-0.58	21.46	20.57	20.81	30.00	-9.19	1.700	1.639	4.31	17.00	-12.69
			15	6025	996T + 484T	192	-5.4	-2.1	-3.44	-0.58	19.26	18.22	18.91	30.00	-11.09	0.948	0.362	3.66	17.00	-13.34
			47	6185	Puncture	48	-5.4	-2.1	-3.44	-0.58	18.72	18.12	18.57	30.00	-11.43	1.571	0.970	4.28	17.00	-12.72
			79	6345	40MHz	3	-5.4	-2.1	-3.44	-0.58	19.60	18.33	19.15	30.00	-10.85	1.755	0.629	4.23	17.00	-12.77
			15	6025	996T + 484T + 242T	128	-5.4	-2.1	-3.44	-0.58	19.55	18.93	19.35	30.00	-10.65	0.941	0.318	3.60	17.00	-13.40
			47	6185	Puncture	16	-5.4	-2.1	-3.44	-0.58	19.57	18.71	19.26	30.00	-10.74	1.545	0.828	4.16	17.00	-12.84
			79	6345	20MHz	1	-5.4	-2.1	-3.44	-0.58	20.50	19.10	19.96	30.00	-10.04	1.809	0.626	4.22	17.00	-12.78





9.4.2. UNII-7

Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna	Antenna	Uncorrelated	Correlated	Measured	Measured	Total	EIRP Power Limit (dBm)	Power Margin (dB)	PSD (dBm/1MHz)	PSD (dBm/1MHz)	Corrected EIRP PSD with DCCF (dBm/1MHz)	EIRP PSD Limit (dBm/1MHz)	EIRP PSD Margin (dB)
							Peak	Peak	Directional	Directional	Conducted	Conducted	Corrected							
							Gain (dBi)	Gain (dBi)	Gain for Power (dB)	Gain for PSD (dB)	Avg Power (dBm)	Avg Power (dBm)	EIRP Power with DCCF (dBm)							
							Tx0	Tx1			Tx0	Tx1				Tx0	Tx1			
NII_7 (SP)	2	11a	117	6535	242T	61	-3.2	-4.7	-3.89	-0.91	19.95	18.85	18.56	30.00	-11.44	11.249	10.204	12.86	17.00	-4.14
			153	6715			-3.2	-4.7	-3.89	-0.91	19.44	19.89	18.80	30.00	-11.20	8.863	9.652	11.38	17.00	-5.62
			181	6855			-3.2	-4.7	-3.89	-0.91	19.92	19.00	18.61	30.00	-11.39	11.521	9.966	12.92	17.00	-4.08
		117	6535	-3.2			-4.7	-3.89	-0.91	20.85	20.35	19.88	30.00	-10.12	10.565	9.952	12.52	17.00	-4.48	
		153	6715	-3.2			-4.7	-3.89	-0.91	20.85	19.73	19.60	30.00	-10.40	10.609	9.529	12.35	17.00	-4.65	
		181	6855	-3.2			-4.7	-3.89	-0.91	20.93	19.76	19.66	30.00	-10.34	10.732	9.390	12.36	17.00	-4.64	
		117	6535	-3.2			-4.7	-3.89	-0.91	18.02	17.07	16.82	30.00	-13.18	9.161	8.936	11.28	17.00	-5.72	
		153	6715	-3.2			-4.7	-3.89	-0.91	17.27	17.52	16.64	30.00	-13.36	9.191	9.165	11.40	17.00	-5.60	
		181	6855	-3.2			-4.7	-3.89	-0.91	17.60	17.33	16.71	30.00	-13.29	9.378	9.202	11.52	17.00	-5.48	
		117	6535	52T	53	37	-3.2	-4.7	-3.89	-0.91	14.97	14.61	14.04	30.00	-15.96	9.740	9.251	11.73	17.00	-5.27
		153	6715			38	-3.2	-4.7	-3.89	-0.91	14.43	14.14	13.54	30.00	-16.46	9.220	9.230	11.45	17.00	-5.55
		181	6855			40	-3.2	-4.7	-3.89	-0.91	14.64	14.12	13.64	30.00	-16.36	9.405	8.912	11.39	17.00	-5.61
		117	6535	26T	0	-3.2	-4.7	-3.89	-0.91	11.95	11.27	10.85	30.00	-19.15	9.460	8.990	11.44	17.00	-5.56	
		153	6715			4	-3.2	-4.7	-3.89	-0.91	11.71	10.91	10.56	30.00	-19.44	8.381	7.238	10.06	17.00	-6.94
		181	6855			8	-3.2	-4.7	-3.89	-0.91	11.46	10.52	10.25	30.00	-19.75	9.525	8.264	11.15	17.00	-5.85
		117	6535	52T + 26T	70	-3.2	-4.7	-3.89	-0.91	17.01	16.63	15.95	30.00	-14.05	10.362	9.640	12.12	17.00	-4.88	
		153	6715			71	-3.2	-4.7	-3.89	-0.91	17.05	16.29	15.81	30.00	-14.19	10.268	9.582	12.04	17.00	-4.96
		181	6855			72	-3.2	-4.7	-3.89	-0.91	17.23	16.27	15.90	30.00	-14.10	10.276	9.299	11.92	17.00	-5.08
		117	6535	106T + 26T	82	-3.2	-4.7	-3.89	-0.91	18.45	18.14	17.42	30.00	-12.58	9.453	9.135	11.40	17.00	-5.60	
		153	6715			-3.2	-4.7	-3.89	-0.91	18.79	18.03	17.55	30.00	-12.45	9.627	8.991	11.42	17.00	-5.58	
		181	6855			-3.2	-4.7	-3.89	-0.91	19.06	18.17	17.76	30.00	-12.24	10.014	9.241	11.75	17.00	-5.25	
		123	6565	484T	65	-3.2	-4.7	-3.89	-0.91	21.57	20.08	20.29	30.00	-9.71	8.295	7.181	10.15	17.00	-6.85	
		147	6685			-3.2	-4.7	-3.89	-0.91	20.73	19.41	19.52	30.00	-10.48	7.483	6.193	9.26	17.00	-7.74	
		179	6845			-3.2	-4.7	-3.89	-0.91	21.72	19.84	20.28	30.00	-9.72	6.272	6.525	8.78	17.00	-8.22	
		135	6625	996T	67	-3.2	-4.7	-3.89	-0.91	20.38	19.83	19.73	30.00	-10.27	4.470	3.758	6.73	17.00	-10.27	
		151	6705			-3.2	-4.7	-3.89	-0.91	20.41	19.45	19.58	30.00	-10.42	4.234	3.208	6.35	17.00	-10.65	
		167	6785			-3.2	-4.7	-3.89	-0.91	21.91	19.91	20.65	30.00	-9.35	4.486	3.830	6.77	17.00	-10.23	
		135	6625	484T + 242T Puncture	4	-3.2	-4.7	-3.89	-0.91	17.32	20.36	18.33	30.00	-11.67	2.514	5.300	6.33	17.00	-10.67	
		151	6705			-3.2	-4.7	-3.89	-0.91	17.08	20.39	18.27	30.00	-11.73	1.942	5.434	6.24	17.00	-10.76	
		167	6785	20MHz	1	-3.2	-4.7	-3.89	-0.91	17.55	20.67	18.61	30.00	-11.39	0.985	4.679	5.42	17.00	-11.58	
		143	6665	SU		-3.2	-4.7	-3.89	-0.91	21.56	20.65	20.46	30.00	-9.54	2.414	1.565	4.32	17.00	-12.68	
		143	6665	996T + 484T Puncture 40MHz	192	-3.2	-4.7	-3.89	-0.91	20.41	19.41	19.64	30.00	-10.36	1.788	1.016	4.10	17.00	-12.90	
		143	6665	996T + 484T + 242T Puncture 20MHz	128	-3.2	-4.7	-3.89	-0.91	16.92	20.03	18.40	30.00	-11.60	-2.502	0.454	1.86	17.00	-15.14	