

TEST REPORT

Report Number: 15107843-E12V2

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

Model : G2YBB

FCC ID : A4RG2YBB

EUT Description : Phone

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

Date Of Issue:

2024-05-11

Prepared by:

UL VERIFICATION SERVICES INC.

47173 Benicia Street

Fremont, CA 94538 U.S.A.

TEL: (510) 319-4000

FAX: (510) 661-0888



REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2024-05-09	Initial Issue	---
V2	2024-05-11	Revised report to address TCB's questions	Tina Chu

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13. DESCRIPTION OF TEST SETUP AND SETUP PHOTOS225

1. ATTESTATION OF TEST RESULTS

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

EUT DESCRIPTION: Phone

MODEL NUMBER: G2YBB

SERIAL NUMBER: 3B091FDAQ000HQ,41I51FDAQ0006X

SAMPLE RECEIPT DATE: 2023-11-29

DATE TESTED: 2023-12-27 to 2024-05-11

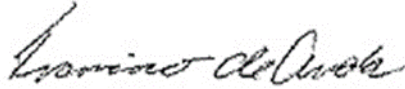
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Complies

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:



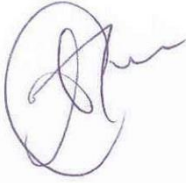
Francisco deAnda
Staff Engineer
Consumer Technology Division
UL Verification Services Inc.

Prepared By:



David Collins
Senior Test Engineer
Consumer Technology Division
UL Verification Services Inc.

Reviewed By:



Tina Chu
Senior Project Engineer
Consumer Technology Division
UL Verification Services Inc.

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
<input type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
<input type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
<input type="checkbox"/>	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
<input checked="" type="checkbox"/>	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;

Dual Client (6CD)	U-NII Bands of Operation			
	5	6	7	8
Low Power Client	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Standard Client	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

6.3. MAXIMUM OUTPUT POWER

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

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	5.38	3.45
	11be EHT20			5.96	3.94
	11be EHT40	5965	6405	7.46	5.57
	11be EHT80	5985	6385	10.78	11.97
	11be EHT160	6025	6345	13.66	23.23
UNII_6	11a	6435	6515	5.56	3.60
	11be EHT20			6.09	4.06
	11be EHT40	6445	6525	8.57	7.19
	11be EHT80	6465	6465	11.77	15.03
	11be EHT160	6505	6505	14.33	27.10
UNII_7	11a	6535	6875	5.52	3.56
	11be EHT20			5.05	3.20
	11be EHT40	6565	6845	7.83	6.07
	11be EHT80	6545	6865	13.35	21.63
	11be EHT160	6665	6825	16.02	39.99
UNII_8	11a	6895	7095	6.06	4.04
	11be EHT20			6.04	4.02
	11be EHT40	6885	7085	9.96	9.91
	11be EHT80	6945	7025	12.63	18.32
	11be EHT160	6985	6985	15.31	33.96

Standard Power

Band	Mode	Min Frequency (MHz)	Max Frequency (MHz)	SP Output Power EIRP (dBm)	SP Output Power EIRP (mW)
UNII_5	11a	5955	6415	20.58	114.29
	11be EHT20			20.98	125.31
	11be EHT40	5965	6405	21.04	127.06
	11be EHT80	5985	6385	22.16	164.44
	11be EHT160	6025	6345	22.59	181.55
UNII_7	11a	6535	6855	22.64	183.65
	11be EHT20			22.48	177.01
	11be EHT40	6565	6845	23.98	250.03
	11be EHT80	6625	6785	23.23	210.38
	11be EHT160	6665	6665	23.98	250.03

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 (Ant4) and one ILA antenna (Ant3) for unlicensed radios.

Integrated Antenna?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
---------------------	---	-----------------------------

Band	Antenna Peak Gain	
	Tx0 (Ant4) (dBi)	Tx1 (Ant3) (dBi)
UNII-5	-3.8	-2.2
UNII-6	-5.2	-0.8
UNII-7	-5.5	-1.5
UNII-8	-6.9	-0.1

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: Y (Landscape) 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	226673	2024-08-31	2024-08-08
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	2024-08-22
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	234683	*2024-03-31	2023-03-18
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		

*Test was performed before calibration due date.

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

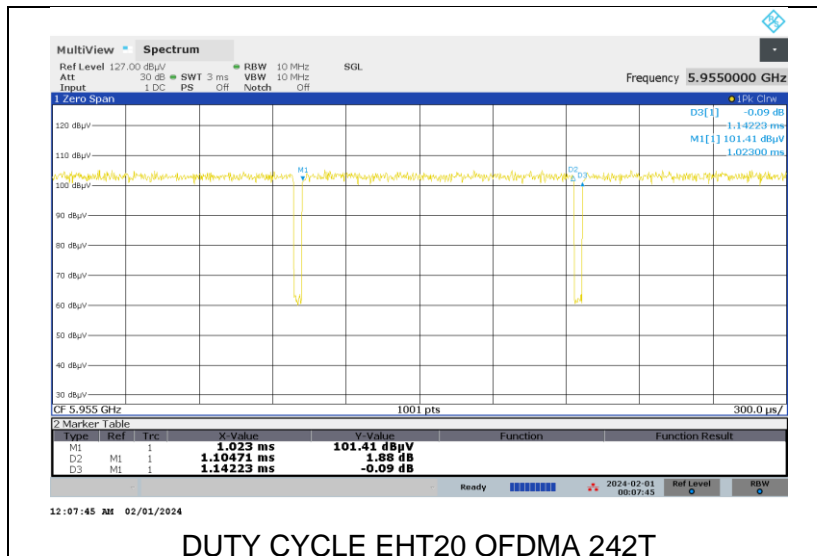
None; for reporting purposes only.

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	4.05341	4.09862	0.99	98.90	0.00	0.01
802.11be OFDMA EHT20 242T	1.10471	1.14223	0.97	96.72	0.15	0.91
802.11be OFDMA EHT20 106T	1.302	1.341	0.97	97.09	0.13	0.77
802.11be OFDMA EHT20 52T	1.4624	1.50792	0.97	96.98	0.13	0.68
802.11be OFDMA EHT20 26T	1.602	1.641	0.98	97.62	0.10	0.62
802.11be OFDMA EHT20 52T + 26T	3.45	3.487	0.99	98.94	0.00	0.01
802.11be OFDMA EHT20 106T + 26T	2	2.037	0.98	98.18	0.00	0.01
802.11be OFDMA EHT40 484T	0.579301	0.621167	0.93	93.26	0.30	1.73
802.11be OFDMA EHT80 996T	0.313259	0.352619	0.89	88.84	0.51	3.19
802.11be OFDMA EHT80 484T + 242T Puncture 20MHz	1.007	1.028	0.98	97.96	0.09	0.99
802.11be OFDMA EHT160 SU	0.4063	0.4265	0.95	95.26	0.21	2.46
802.11be OFDMA EHT160 996T + 484T Puncture 40MHz	0.5251	0.5461	0.96	96.15	0.17	1.90
802.11be OFDMA EHT160 996T + 484T + 242T Puncture 20MHz	0.461	0.4817	0.96	95.70	0.19	2.17



DUTY CYCLE EHT20 OFDMA 242T

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			16.554	16.588	21.240	20.960
			45	6175			16.589	16.605	21.200	20.960
			93	6415			16.668	16.600	21.240	20.920
		11be EHT20	1	5955	242T	61	18.931	18.920	21.520	21.440
			45	6175			18.936	18.868	21.600	21.360
			93	6415			18.935	18.896	21.560	21.440
		11be EHT40	3	5965	484T	65	37.624	37.564	40.960	40.720
			43	6165			37.597	37.549	41.040	40.720
			91	6405			37.684	37.527	41.040	40.720
		11be EHT80	7	5985	996T	67	76.994	77.124	83.040	83.040
			39	6145			77.285	76.950	83.040	82.880
			87	6385			77.181	77.128	82.720	82.720
		11be EHT160	15	6025	SU		156.820	156.630	169.280	168.000
			47	6185			156.620	156.270	169.280	168.000
			79	6345			156.550	156.540	168.640	168.320

9.2.2. LOW POWER UNII-6

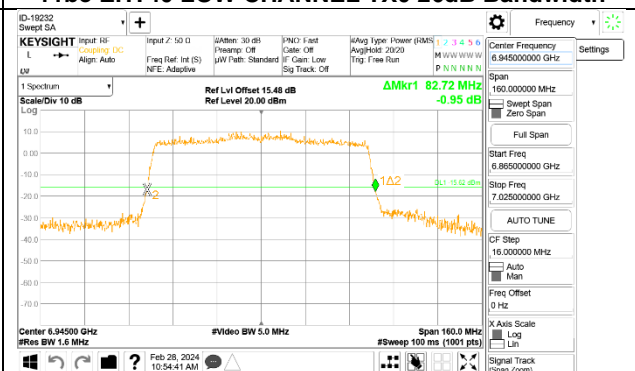
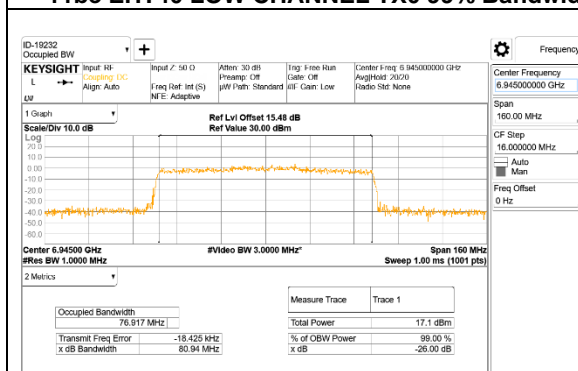
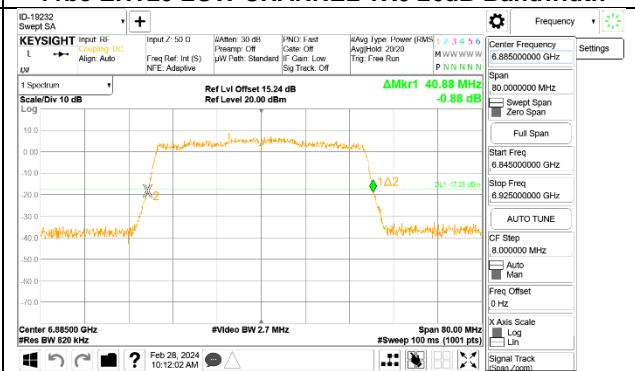
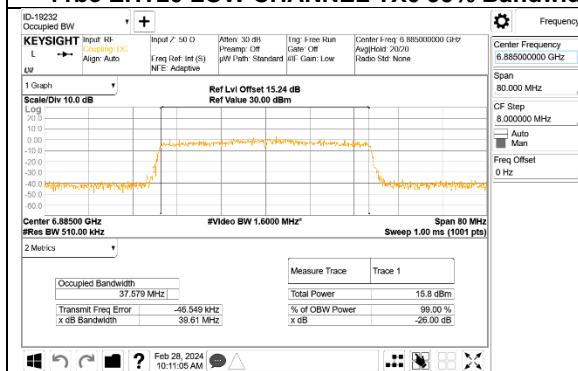
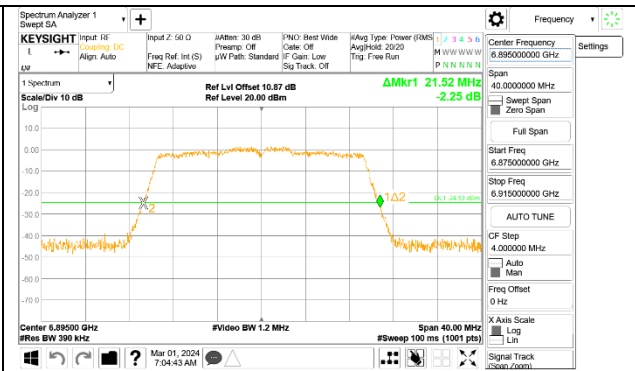
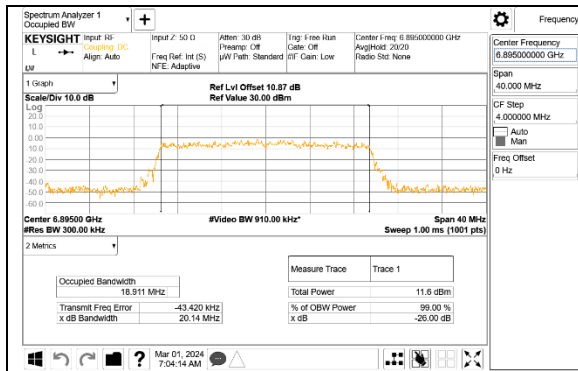
Band (GHz)	No. of Tx	Mode	Channel	Freq (MHz)	Tones	RU Index	99% Bandwidth (MHz)		26dB Bandwidth (MHz)	
							Tx0	Tx1	Tx0	Tx1
UNII_6	2	11a	97	6435			16.639	16.638	21.440	21.000
			105	6475			16.578	16.537	21.240	20.960
			113	6515			16.628	16.583	21.400	21.280
		11be EHT20	97	6435	242T	61	18.959	18.864	21.520	21.320
			105	6475			18.939	18.957	21.360	21.320
			113	6515			18.888	18.997	21.480	21.240
		11be EHT40	99	6445	484T	65	37.659	37.613	41.040	41.040
			107	6485			37.643	37.616	41.280	40.640
			115 (Straddle)	6525			37.620	37.616	41.120	40.880
		11be EHT80	103	6465	996T	67	77.114	76.998	83.200	82.880
		11be EHT160	111 (Straddle)	6505	SU		156.450	156.130	272.960	168.000

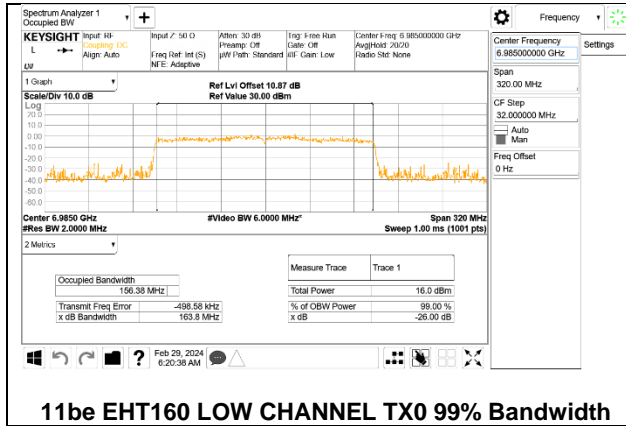
9.2.3. LOW POWER UNII-7

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			16.665	16.593	21.200	21.000
			153	6715			16.614	16.495	21.320	20.920
			185 (Straddle)	6875			16.647	16.625	21.280	20.920
		11be EHT20	117	6535	242T	61	18.962	18.877	21.480	21.360
			153	6715			18.872	18.920	21.440	21.320
			185 (Straddle)	6875			18.961	18.920	21.480	21.240
		11be EHT40	123	6565	484T	65	37.557	37.703	40.960	40.880
			147	6685			37.663	37.747	41.120	40.880
			179	6845			37.566	37.555	41.280	40.960
		11be EHT80	119 (Straddle)	6545	996T	67	77.119	77.086	83.840	82.880
			135	6625			77.039	77.076	83.040	82.720
			151	6705			77.107	77.174	83.840	84.000
			167	6785			76.954	76.964	83.200	82.720
		11be EHT160	183 (Straddle)	6865	SU		77.157	76.925	84.160	82.880
			143	6665			156.240	156.220	272.320	273.920
			175 (Straddle)	6825			156.890	156.170	164.800	274.880

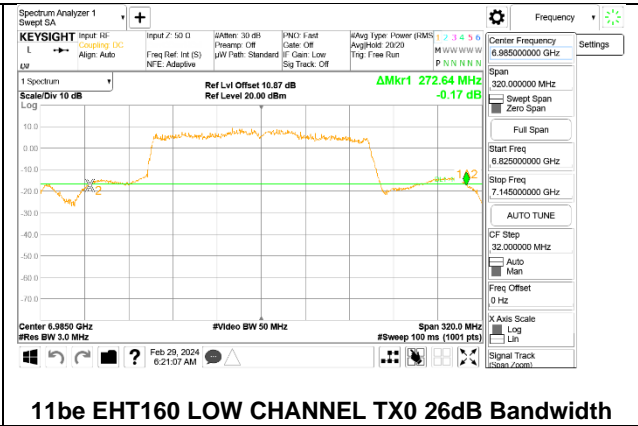
9.2.4. LOW POWER UNII-8

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	16.648	16.560	21.160	20.960
			209	6995			16.549	16.596	21.160	21.080
			229	7095			16.617	16.624	21.200	20.960
		11be EHT20	189	6895			18.911	18.898	21.520	21.320
			209	6995			18.895	18.887	21.560	21.360
			229	7095			18.899	18.922	21.480	21.440
	11be EHT40	187 (Straddle)	6885	37.579	37.676	40.880	40.800			
		203	6965	37.638	37.730	41.200	41.120			
		227	7085	37.555	37.593	40.960	40.800			
	11be EHT80	199	6945	76.917	76.971	82.720	83.040			
		215	7025	77.199	77.142	82.880	83.040			
	11be EHT160	207	6985	SU	156.380	156.710	272.640	275.200		





11be EHT160 LOW CHANNEL TX0 99% Bandwidth



11be EHT160 LOW CHANNEL TX0 26dB Bandwidth

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
UNII_5	2	11a	1	5955			16.530	16.639	21.20	20.92
			45	6175			16.653	16.532	21.28	21.08
			93	6415			16.577	16.609	21.08	20.96
		11be EHT20	1	5955	242T	61	18.895	18.933	21.36	21.36
			45	6175			18.935	18.858	21.44	21.24
			93	6415			18.907	18.949	21.40	21.32
		11be EHT40	3	5965	484T	65	37.628	37.584	40.96	41.28
			43	6165			37.630	37.681	41.28	40.80
			91	6405			37.494	37.530	41.12	40.80
		11be EHT80	7	5985	996T	67	76.997	77.002	83.36	83.04
			39	6145			77.106	77.087	83.84	83.04
			87	6385			77.033	76.891	83.04	83.04
		11be EHT160	15	6025	SU		156.000	156.430	267.52	229.12
			47	6185			156.630	156.470	269.76	243.20
			79	6345			156.460	156.470	231.68	237.12

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
UNII_7	2	11a	117	6535			16.550	16.615	21.16	20.96
			153	6715			16.592	16.622	21.28	21.00
			181	6855			16.631	16.624	21.24	21.24
		11be EHT20	117	6535	242T	61	18.876	18.916	21.40	21.40
			153	6715			18.965	18.922	21.56	21.32
			181	6855			18.915	18.915	21.44	21.32
		11be EHT40	123	6565	484T	65	37.468	37.656	41.28	40.88
			147	6685			37.645	37.550	40.96	40.80
			179	6845			37.670	37.682	40.88	40.88
		11be EHT80	135	6625	996T	65	77.039	77.076	83.04	82.72
			151	6705			76.837	77.095	83.68	84.32
			167	6785			76.954	76.964	83.20	82.72
		11be EHT160	143	6665	SU		156.060	156.640	268.48	271.68

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	Antenna Gain Peak Gain		Uncorrelated Chains Directional Gain	Correlated Chains Directional Gain
		Tx0	Tx1		
	(MHz)	(dBi)	(dBi)	(dBi)	(dBi)
NII_5	5925 - 6425	-3.80	-2.20	-2.93	0.05
NII_6	6425 - 6525	-5.20	-0.80	-2.47	0.29
NII_7	6525 - 6875	-5.50	-1.50	-3.05	-0.26
NII_8	6875 - 7125	-6.90	-0.10	-2.29	0.16

Directional Gain Calculation:

ANSI C63.10-2013 section 14.4.3

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

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

Sample Calculation at UNII-5 Band:

$$Tx0 = -3.8 \text{dBi}, Tx1 = -2.2 \text{dBi}$$

$$\text{Uncorrelated Antenna gain} = 10 \log \left[\frac{10^{(-3.8/10)} + 10^{(-2.2/10)}}{2} \right] = -2.93 \text{ dBi}$$

$$\text{Correlated Antenna gain} = 10 \log \left[\frac{(10^{(-3.8/20)} + 10^{(-2.2/20)})^2}{2} \right] = 0.05 \text{dBi}$$

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)=
 $10\log[10^{(4.87+0.15)/10} + 10^{(4.87+0.15)/10}] + (-2.93) = 5.10\text{dBm}$

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)=
 $10\log[10^{(-4.693 + 0.15)/10} + 10^{(-4.926+0.15)/10}] + (0.05) = -1.61 \text{ dBm/1MHz}$

RESULT

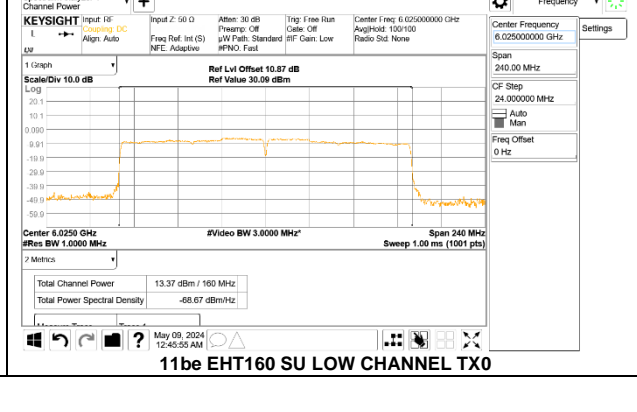
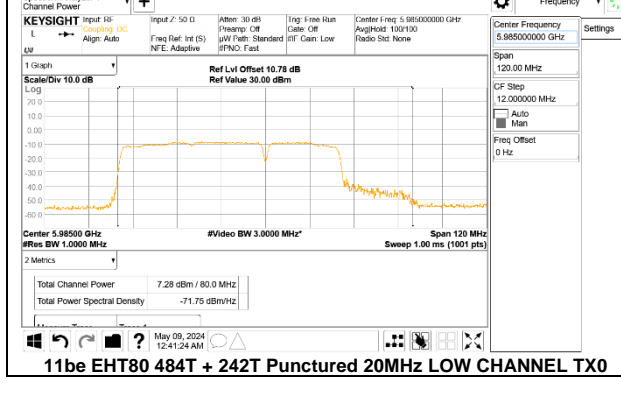
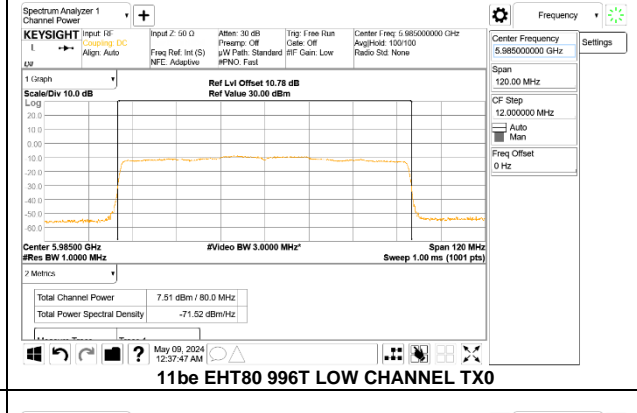
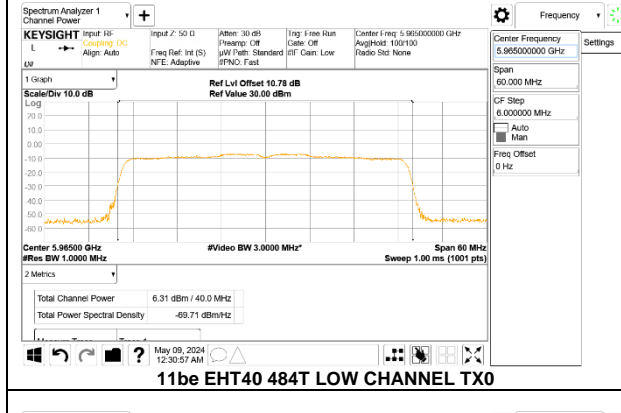
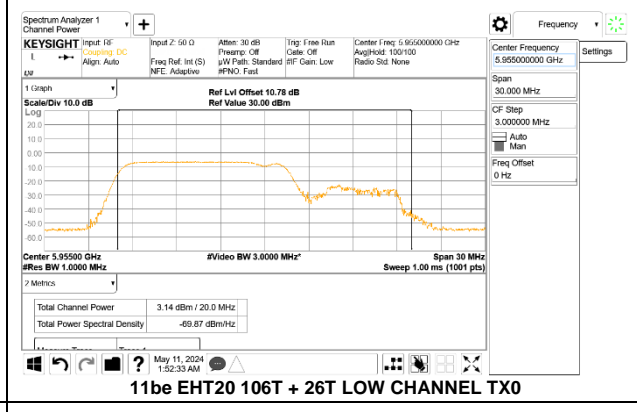
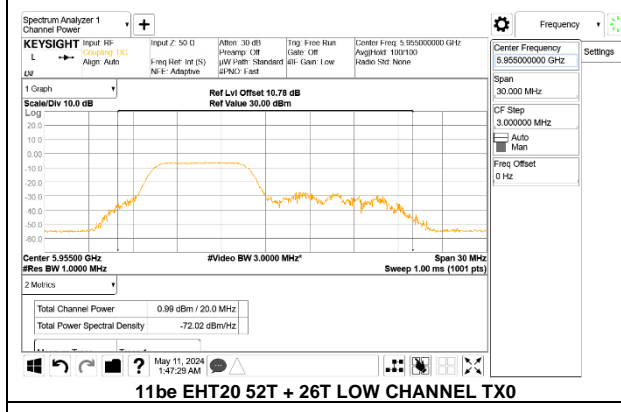
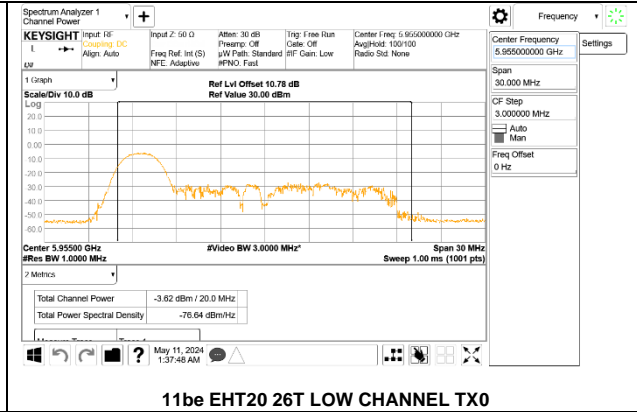
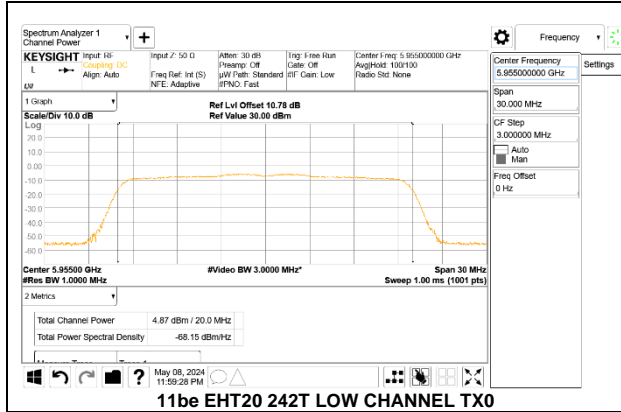
Partial plots included in PSD for each band are representative of the method and settings parameters used for the test. Partial power plots only shown in UNII-5 as representative of the method and settings parameters used for the test.

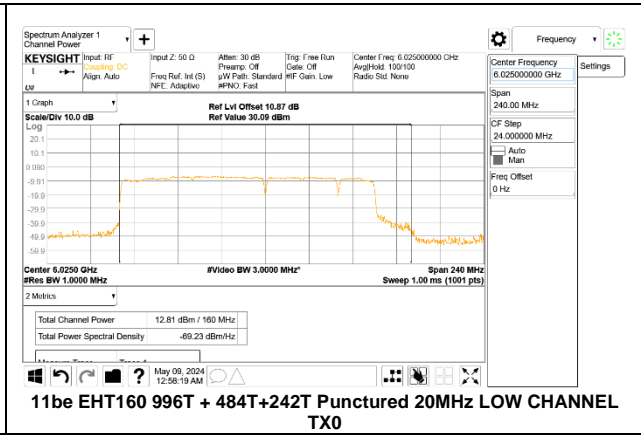
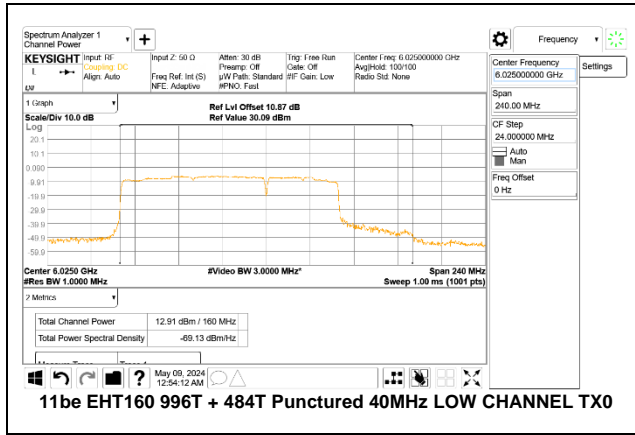
Test Engineer:	NM 19232, HN 27979, 32480 BY, 32181 SR, 24971 BN
Test Date:	2024-02-01 TO 2024-05-11

9.3.1. UNII-5

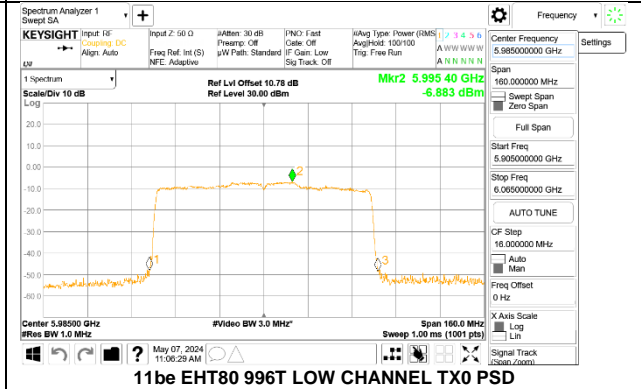
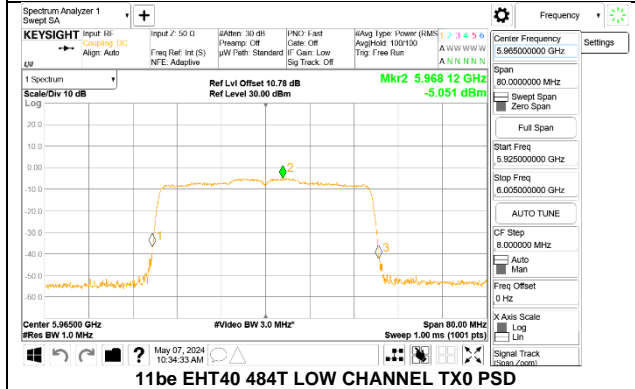
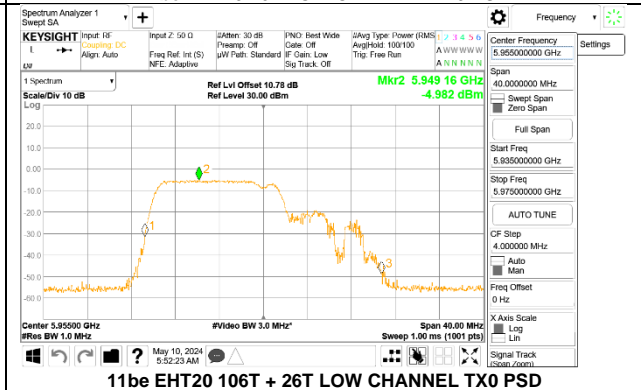
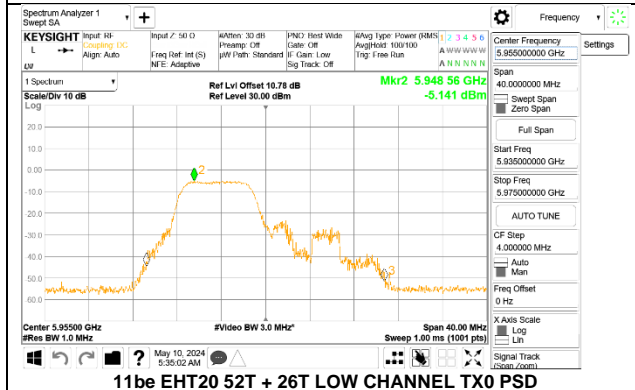
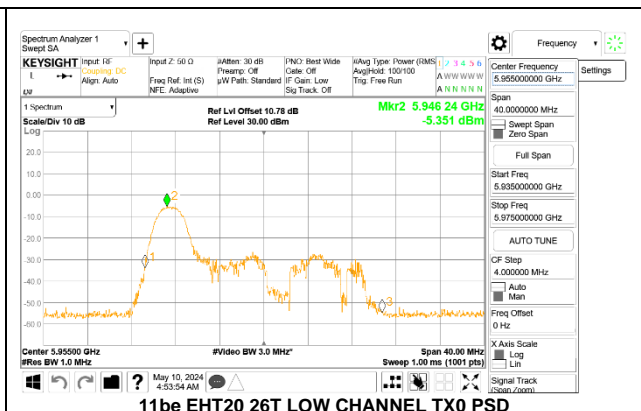
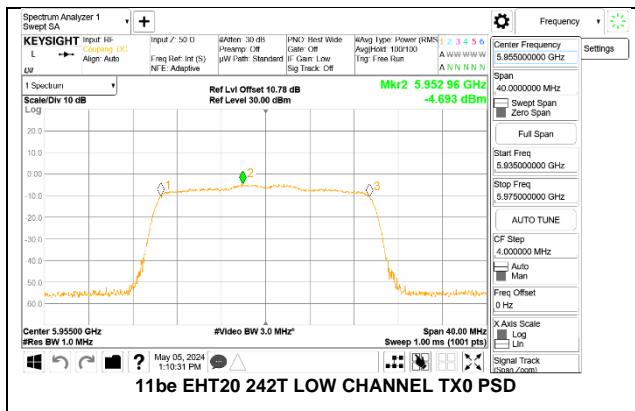
Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna Peak Gain (dBi) Tx0	Antenna Peak Gain (dBi) Tx1	Uncorrelated Directional Gain for Power (dBi)	Correlated Directional Gain for PSD (dBi)	Measured Conducted Avg Power (dBm) Tx0	Measured Conducted Avg Power (dBm) Tx1	Total Corrected EIRP Power with DCCF (dBm)	EIRP Power Limit (dBm)	Power Margin (dB)	Measured PSD (dBm/1MHz) Tx0	Measured 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			-3.8	-2.2	-2.93	0.05	4.51	4.80	4.74	24.00	-19.26	-4.562	-4.333	-1.39	-1.00	-0.39		
			45	6175			-3.8	-2.2	-2.93	0.05	4.95	5.62	5.38	24.00	-18.62	-4.694	-4.017	-1.28	-1.00	-0.28		
			93	6415			-3.8	-2.2	-2.93	0.05	4.91	5.64	5.37	24.00	-18.63	-4.622	-3.939	-1.21	-1.00	-0.21		
			1	5955	242T	61	-3.8	-2.2	-2.93	0.05	4.87	4.87	5.10	24.00	-18.90	-4.693	-4.926	-1.61	-1.00	-0.61		
			45	6175			-3.8	-2.2	-2.93	0.05	5.63	5.84	5.96	24.00	-18.04	-4.868	-4.435	-1.44	-1.00	-0.44		
			93	6415			-3.8	-2.2	-2.93	0.05	4.21	5.73	5.26	24.00	-18.74	-5.633	-3.940	-1.50	-1.00	-0.50		
			1	5955	106T	53	-3.8	-2.2	-2.93	0.05	2.02	2.13	2.29	24.00	-21.71	-5.083	-4.945	-1.83	-1.00	-0.83		
			45	6175			-3.8	-2.2	-2.93	0.05	2.80	3.45	3.35	24.00	-20.65	-5.165	-4.500	-1.63	-1.00	-0.63		
			93	6415			-3.8	-2.2	-2.93	0.05	2.30	3.50	3.15	24.00	-20.85	-5.690	-4.249	-1.72	-1.00	-0.72		
			1	5955	52T	37	-3.8	-2.2	-2.93	0.05	-0.58	-0.35	-0.25	24.00	-24.25	-5.524	-4.708	-1.91	-1.00	-0.91		
			45	6175			-3.8	-2.2	-2.93	0.05	-0.26	0.37	0.28	24.00	-23.72	-5.248	-4.964	-1.91	-1.00	-0.91		
			93	6415			-3.8	-2.2	-2.93	0.05	-1.19	0.32	-0.15	24.00	-24.15	-5.896	-4.224	-1.79	-1.00	-0.79		
			1	5955	26T	0	-3.8	-2.2	-2.93	0.05	-3.62	-3.23	-3.23	24.00	-27.23	-5.351	-5.030	-2.03	-1.00	-1.03		
			45	6175			-3.8	-2.2	-2.93	0.05	-2.85	-1.83	-2.12	24.00	-26.12	-5.848	-5.210	-2.36	-1.00	-1.36		
			93	6415			-3.8	-2.2	-2.93	0.05	-3.49	-2.43	-2.74	24.00	-26.74	-5.262	-4.557	-1.73	-1.00	-0.73		
			1	5955	52T + 26T	70	-3.8	-2.2	-2.93	0.05	0.99	1.53	1.35	24.00	-22.65	-5.141	-4.421	-1.71	-1.00	-0.71		
			45	6175			-3.8	-2.2	-2.93	0.05	1.42	2.36	2.00	24.00	-22.00	-5.251	-4.505	-1.80	-1.00	-0.80		
			93	6415			-3.8	-2.2	-2.93	0.05	0.03	1.77	1.07	24.00	-22.93	-5.600	-4.024	-1.68	-1.00	-0.68		
			1	5955	106T + 26T	82	-3.8	-2.2	-2.93	0.05	3.14	3.07	3.19	24.00	-20.81	-4.982	-5.176	-2.02	-1.00	-1.02		
			45	6175			-3.8	-2.2	-2.93	0.05	3.43	4.24	3.94	24.00	-20.06	-5.461	-4.727	-2.02	-1.00	-1.02		
			93	6415			-3.8	-2.2	-2.93	0.05	3.45	3.92	3.77	24.00	-20.23	-5.299	-4.877	-2.03	-1.00	-1.03		
			3	5965	484T	65	-3.8	-2.2	-2.93	0.05	6.31	6.82	6.96	24.00	-17.04	-5.051	-4.194	-1.24	-1.00	-0.24		
			43	6165			-3.8	-2.2	-2.93	0.05	6.67	7.16	7.31	24.00	-16.69	-5.479	-4.039	-1.34	-1.00	-0.34		
			91	6405			-3.8	-2.2	-2.93	0.05	6.70	7.42	7.46	24.00	-16.54	-5.128	-4.061	-1.20	-1.00	-0.20		
			7	5985	996T	67	-3.8	-2.2	-2.93	0.05	7.51	8.22	8.48	24.00	-15.52	-6.883	-5.792	-2.73	-1.00	-1.73		
			39	6145			-3.8	-2.2	-2.93	0.05	9.95	10.41	10.78	24.00	-13.22	-5.284	-4.620	-1.37	-1.00	-0.37		
			87	6385			-3.8	-2.2	-2.93	0.05	9.32	10.36	10.47	24.00	-13.53	-5.899	-4.309	-1.46	-1.00	-0.46		
			7	5985	484T + 242T	8	-3.8	-2.2	-2.93	0.05	7.28	8.13	7.90	24.00	-16.10	-5.938	-6.147	-2.89	-1.00	-1.89		
			39	6145			Puncture 20MHz	4	-3.8	-2.2	-2.93	0.05	8.27	9.21	8.94	24.00	-15.06	-5.719	-4.809	-2.09	-1.00	-1.09
			87	6385					-3.8	-2.2	-2.93	0.05	8.57	9.13	9.03	24.00	-14.97	-5.883	-5.122	-2.34	-1.00	-1.34
			15	6025	SU		-3.8	-2.2	-2.93	0.05	13.37	13.02	13.49	24.00	-10.51	-4.556	-4.512	-1.27	-1.00	-0.27		
			47	6185			-3.8	-2.2	-2.93	0.05	13.09	13.13	13.40	24.00	-10.60	-4.902	-4.384	-1.37	-1.00	-0.37		
			79	6345			-3.8	-2.2	-2.93	0.05	13.32	13.42	13.66	24.00	-10.34	-5.427	-3.696	-1.21	-1.00	-0.21		
			15	6025	996T + 484T	192	-3.8	-2.2	-2.93	0.05	12.91	13.21	13.32	24.00	-10.68	-4.441	-4.587	-1.29	-1.00	-0.29		
			47	6185			Puncture 40MHz	48	-3.8	-2.2	-2.93	0.05	12.09	12.91	12.77	24.00	-11.23	-5.056	-4.218	-1.39	-1.00	-0.39
			79	6345					-3.8	-2.2	-2.93	0.05	12.84	13.03	13.19	24.00	-10.81	-6.502	-6.335	-3.19	-1.00	-2.19
			15	6025	996T + 484T + 242T Puncture 20MHz	128	-3.8	-2.2	-2.93	0.05	12.81	13.12	13.24	24.00	-10.76	-5.143	-4.727	-1.68	-1.00	-0.68		
			47	6185			16	-3.8	-2.2	-2.93	0.05	12.47	13.04	13.04	24.00	-10.96	-5.254	-4.584	-1.66	-1.00	-0.66	
			79	6345				1	-3.8	-2.2	-2.93	0.05	12.45	13.25	13.14	24.00	-10.86	-5.951	-4.168	-1.72	-1.00	-0.72

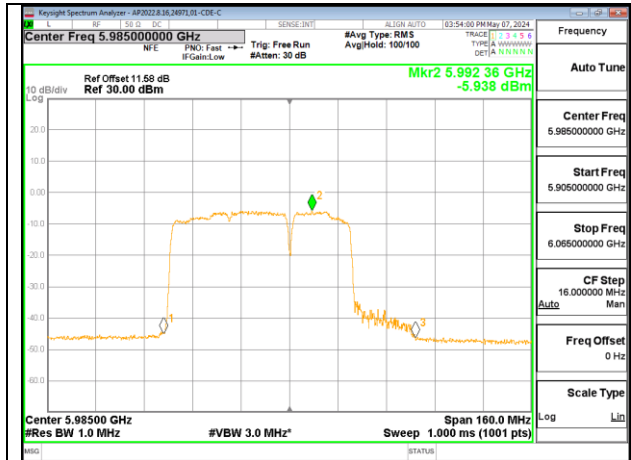
Power



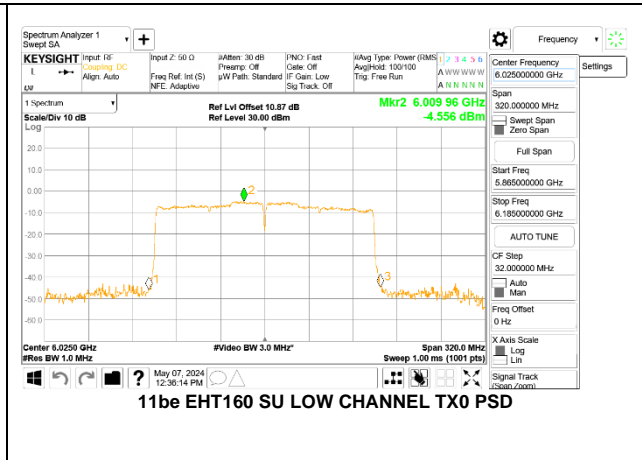


PSD

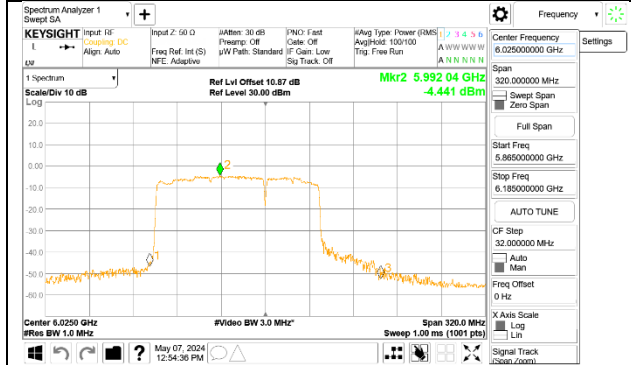




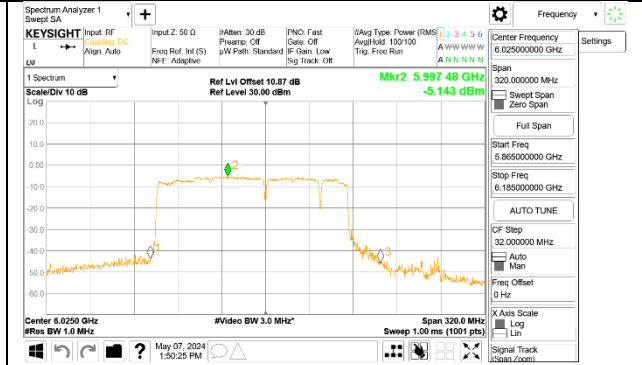
11be EHT80 484T + 242T Punctured 20MHz LOW CHANNEL TX0 PSD



11be EHT160 SU LOW CHANNEL TX0 PSD



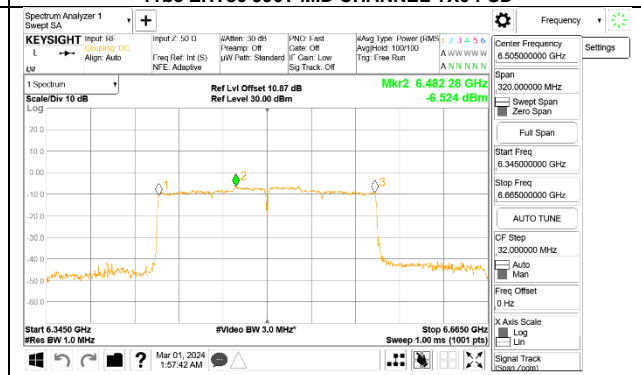
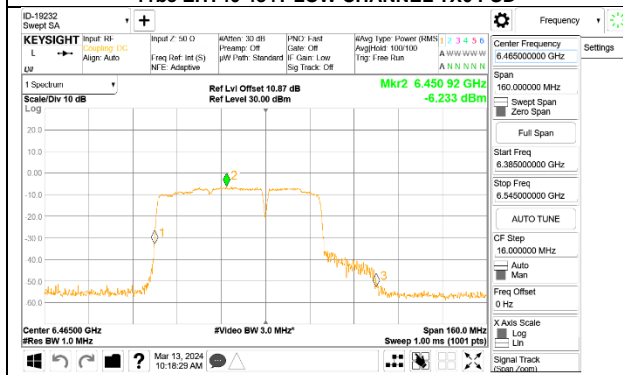
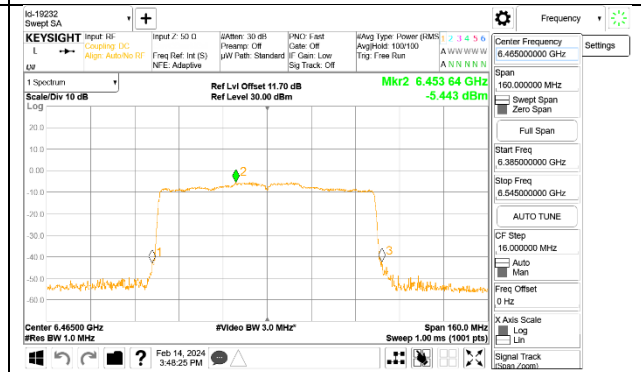
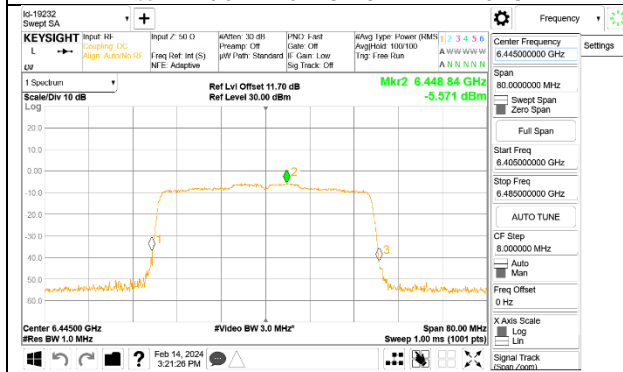
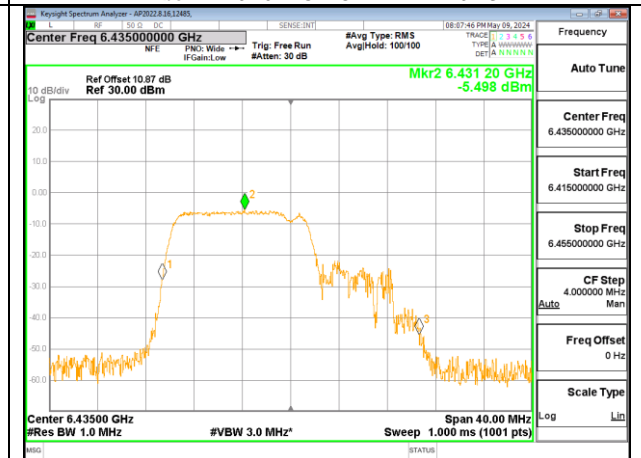
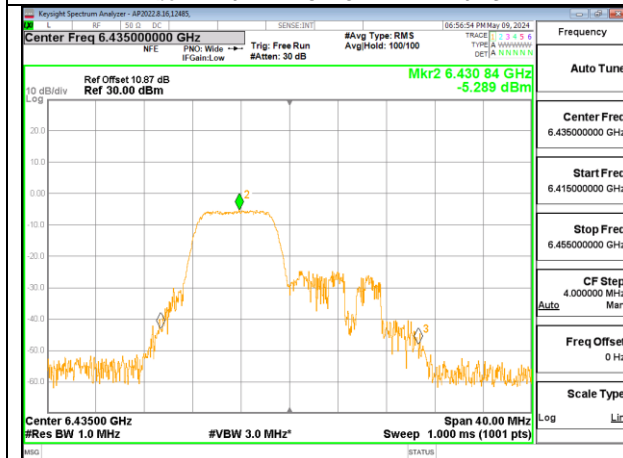
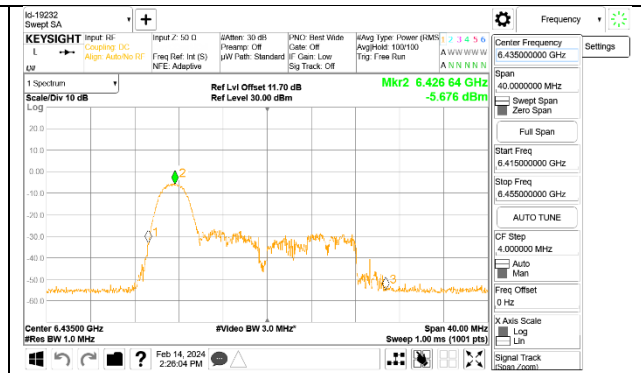
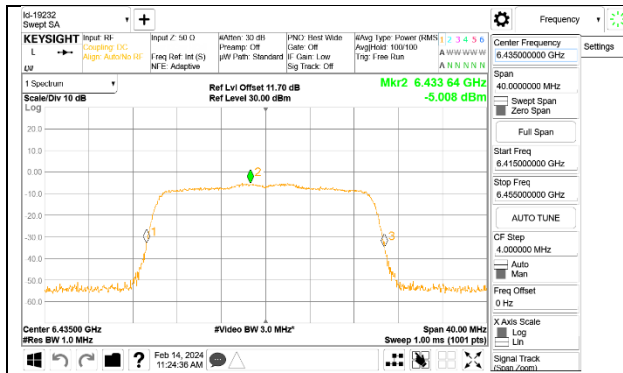
11be EHT160 996T + 484T Punctured 40MHz LOW CHANNEL TX0 PSD

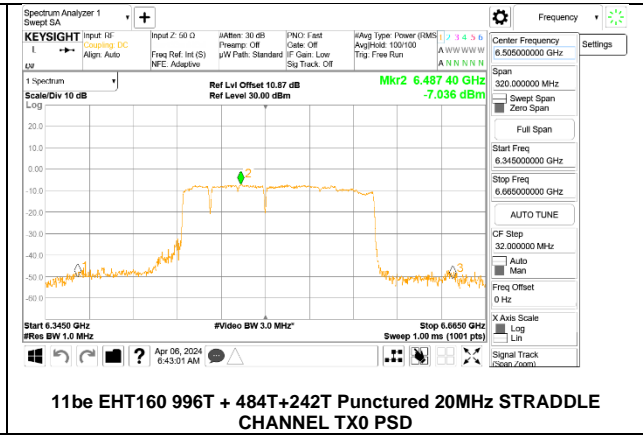
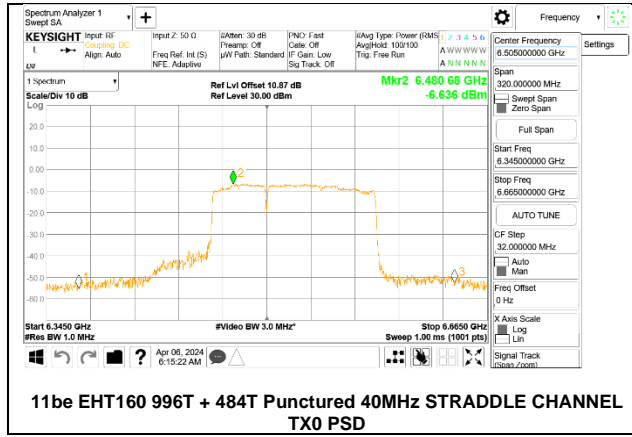


11be EHT160 996T + 484T+242T Punctured 20MHz LOW CHANNEL TX0 PSD

9.3.2. UNII-6

Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna	Antenna	Uncorrelated	Correlated	Measured	Measured	Total	EIRP	Power	Measured	Measured	Corrected EIRP	EIRP PSD	EIRP PSD	
							Peak Gain (dBi) Tx0	Peak Gain (dBi) Tx1													Directional Gain for Power (dBi)
NII_6 (LP)	2	11a	97	6435			-5.2	-0.8	-2.47	0.29	4.74	4.58	5.21	24.00	-18.79	-4.757	-4.451	-1.31	-1.00	-0.31	
			105	6475				-5.2	-0.8	-2.47	0.29	4.90	4.67	5.33	24.00	-18.67	-4.687	-4.627	-1.36	-1.00	-0.36
			113	6515				-5.2	-0.8	-2.47	0.29	4.96	5.07	5.56	24.00	-18.44	-4.944	-4.637	-1.44	-1.00	-0.44
		11be EHT20	242T	97	6435		61	-5.2	-0.8	-2.47	0.29	4.45	4.53	5.18	24.00	-18.82	-5.008	-5.252	-1.69	-1.00	-0.69
				105	6475			-5.2	-0.8	-2.47	0.29	4.87	5.05	5.65	24.00	-18.35	-4.941	-4.951	-1.50	-1.00	-0.50
				113	6515			-5.2	-0.8	-2.47	0.29	5.43	5.37	6.09	24.00	-17.91	-4.887	-4.912	-1.46	-1.00	-0.46
			106T	97	6435		53	-5.2	-0.8	-2.47	0.29	2.03	2.26	2.82	24.00	-21.18	-5.435	-5.313	-1.95	-1.00	-0.95
				105	6475			-5.2	-0.8	-2.47	0.29	2.43	2.85	3.32	24.00	-20.68	-5.504	-5.046	-1.84	-1.00	-0.84
				113	6515			-5.2	-0.8	-2.47	0.29	2.70	2.79	3.42	24.00	-20.58	-5.372	-5.269	-1.90	-1.00	-0.90
			52T	97	6435		37	-5.2	-0.8	-2.47	0.29	0.26	0.49	1.05	24.00	-22.95	-5.394	-5.103	-1.82	-1.00	-0.82
				105	6475			-5.2	-0.8	-2.47	0.29	-0.88	0.26	0.41	24.00	-23.59	-5.689	-4.932	-1.86	-1.00	-0.86
				113	6515			-5.2	-0.8	-2.47	0.29	-0.36	0.49	0.76	24.00	-23.24	-5.660	-4.915	-1.84	-1.00	-0.84
			26T	97	6435		0	-5.2	-0.8	-2.47	0.29	-3.65	-2.92	-2.62	24.00	-26.62	-5.676	-4.659	-1.74	-1.00	-0.74
				105	6475		4	-5.2	-0.8	-2.47	0.29	-2.65	-1.86	-1.59	24.00	-25.59	-5.517	-5.174	-1.94	-1.00	-0.94
				113	6515		8	-5.2	-0.8	-2.47	0.29	-2.76	-2.34	-1.90	24.00	-25.90	-5.419	-4.462	-1.51	-1.00	-0.51
		97		6435		70	-5.2	-0.8	-2.47	0.29	1.77	2.01	2.44	24.00	-21.56	-5.289	-4.946	-1.82	-1.00	-0.82	
		105		6475		71	-5.2	-0.8	-2.47	0.29	1.75	2.15	2.50	24.00	-21.50	-5.337	-5.011	-1.87	-1.00	-0.87	
		113		6515		72	-5.2	-0.8	-2.47	0.29	1.87	2.33	2.65	24.00	-21.35	-5.273	-4.876	-1.77	-1.00	-0.77	
		52T + 26T	97	6435		82	-5.2	-0.8	-2.47	0.29	3.69	3.77	4.28	24.00	-19.72	-5.498	-5.348	-2.13	-1.00	-1.13	
			105	6475		7	-5.2	-0.8	-2.47	0.29	3.94	4.42	4.73	24.00	-19.27	-5.241	-5.084	-1.87	-1.00	-0.87	
			113	6515		83	-5.2	-0.8	-2.47	0.29	4.00	4.35	4.72	24.00	-19.28	-5.256	-5.142	-1.90	-1.00	-0.90	
		11be EHT40	99	6445				-5.2	-0.8	-2.47	0.29	6.83	7.20	7.87	24.00	-16.13	-5.571	-4.917	-1.63	-1.00	-0.63
			107	6485		484T	65	-5.2	-0.8	-2.47	0.29	7.47	7.80	8.49	24.00	-15.51	-5.212	-5.056	-1.53	-1.00	-0.53
			115 (Straddle)	6525				-5.2	-0.8	-2.47	0.29	7.70	7.75	8.57	24.00	-15.43	-5.244	-5.006	-1.52	-1.00	-0.52
		11be EHT80	103	6465		996T	67	-5.2	-0.8	-2.47	0.29	10.61	10.81	11.77	24.00	-12.23	-5.443	-5.199	-1.51	-1.00	-0.51
			103	6465		484T + 242T Puncture 20MHz	8	-5.2	-0.8	-2.47	0.29	8.43	9.55	9.66	24.00	-14.34	-6.233	-5.512	-2.47	-1.00	-1.47
		11be EHT160	111 (Straddle)	6505		SU		-5.2	-0.8	-2.47	0.29	13.26	13.87	14.33	24.00	-9.67	-6.524	-5.406	-2.42	-1.00	-1.42
			111 (Straddle)	6505		996T + 484T Puncture 40MHz	3	-5.2	-0.8	-2.47	0.29	11.80	12.05	12.64	24.00	-11.36	-6.636	-5.912	-2.79	-1.00	-1.79
			111 (Straddle)	6505		996T + 484T + 242T Puncture 20MHz	1	-5.2	-0.8	-2.47	0.29	12.03	12.38	12.94	24.00	-11.06	-7.036	-6.330	-3.18	-1.00	-2.18



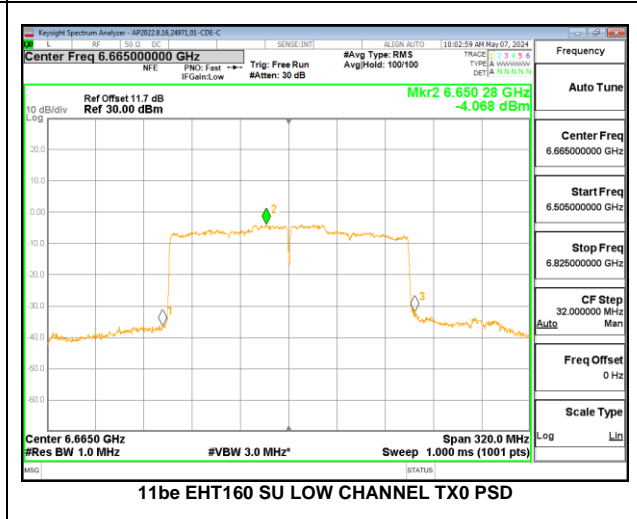
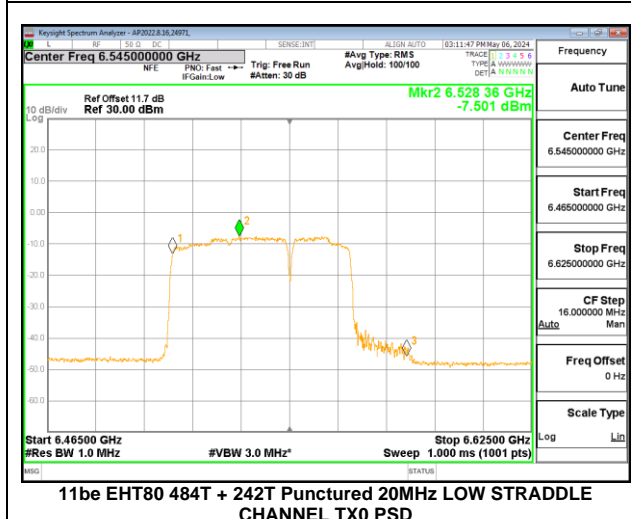
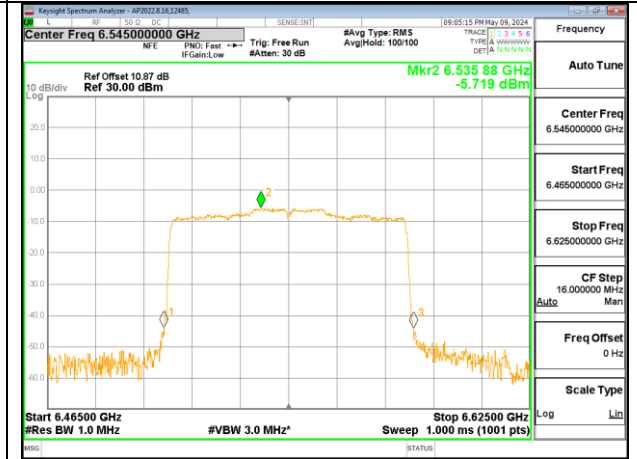
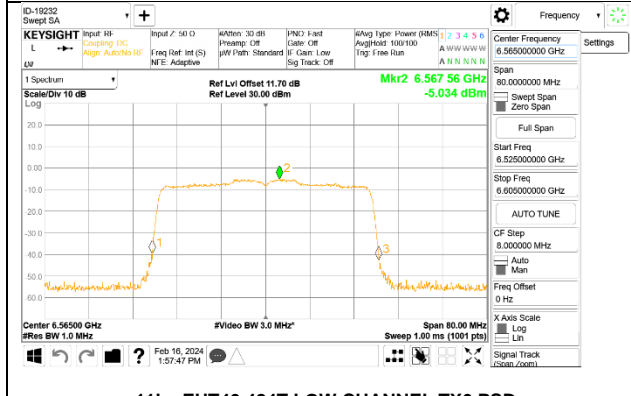
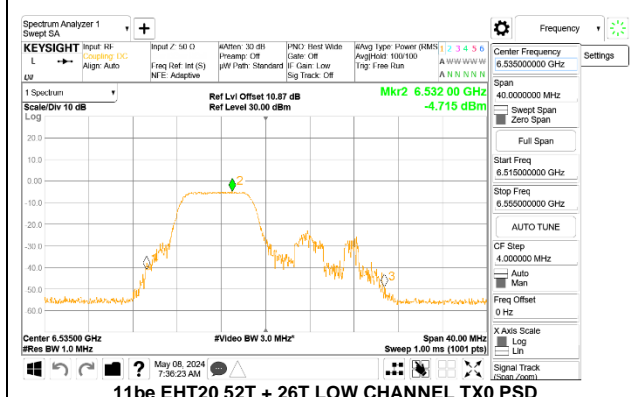
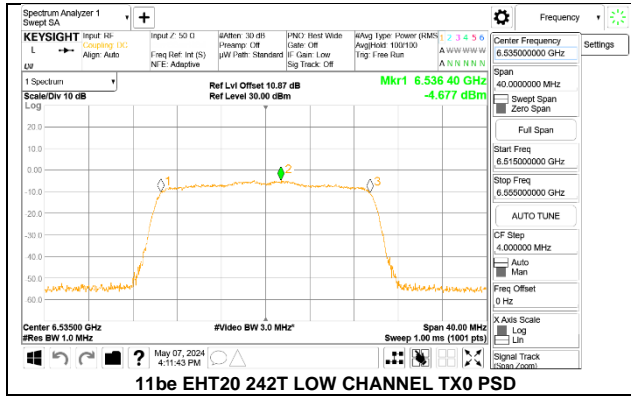


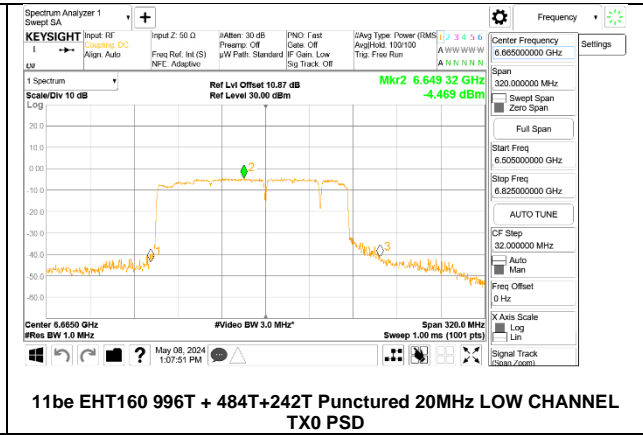
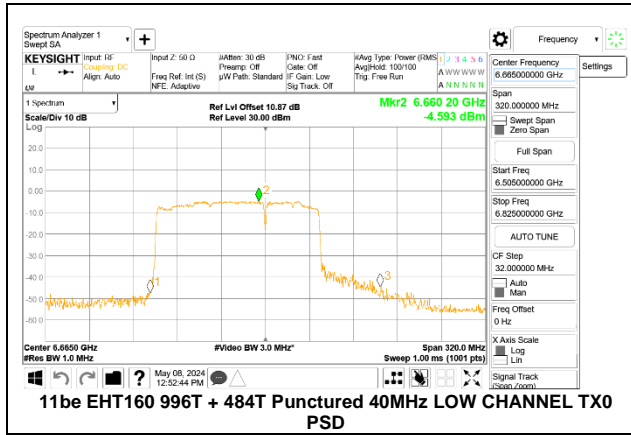
9.3.3. UNII-7

Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna	Antenna	Uncorrelated	Correlated	Measured	Measured	Total	EIRP	Power	Measured	Measured	Corrected EIRP	EIRP PSD	EIRP PSD				
							Peak Gain (dBi)	Peak Gain (dBi)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Conducted Avg Power (dBm)	Conducted Avg Power (dBm)	ERP Power with DCCF (dBm)	Power Limit (dBm)	Margin (dB)	PSD (dBm/1MHz)	PSD (dBm/1MHz)	PSD with DCCF (dBm/1MHz)	Limit (dBm/1MHz)	Margin (dB)				
NII_7 (LP)	2		11a	117	6535			Tx0	Tx1	(dBi)	(dBi)	Tx0	Tx1	(dBm)	(dBm)	(dB)	Tx0	Tx1	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)	(dB)
				153	6715			-5.5	-1.5	-3.05	-0.26	5.48	4.91	5.16	24.00	-18.84	-3.903	-4.141	-1.27	-1.00	-0.27			
				*185 (Straddle)	6875			-5.5	-1.5	-3.05	-0.26	6.24	4.76	5.52	24.00	-18.48	-3.528	-5.066	-1.48	-1.00	-0.48			
			11be EHT20	117	6535			53	-5.5	-1.5	-3.05	-0.26	4.47	4.99	4.84	24.00	-19.16	-4.677	-4.006	-1.43	-1.00	-0.43		
				153	6715			61	-5.5	-1.5	-3.05	-0.26	5.02	4.13	4.70	24.00	-19.30	-4.128	-5.019	-1.66	-1.00	-0.66		
				*185 (Straddle)	6875			53	-6.9	-0.1	-2.29	0.16	4.62	3.70	5.05	24.00	-18.95	-4.558	-5.546	-1.71	-1.00	-0.71		
				117	6535			106T	-5.5	-1.5	-3.05	-0.26	2.14	1.99	2.15	24.00	-21.85	-4.673	-4.053	-1.47	-1.00	-0.47		
				153	6715			53	-5.5	-1.5	-3.05	-0.26	2.68	1.96	2.42	24.00	-21.58	-4.149	-5.045	-1.70	-1.00	-0.70		
				*185 (Straddle)	6875			54	-6.9	-0.1	-2.29	0.16	2.89	1.98	3.31	24.00	-20.69	-4.497	-5.763	-1.79	-1.00	-0.79		
				117	6535			52T	37	-5.5	-1.5	-3.05	-0.26	-1.40	-1.01	-1.11	24.00	-25.11	-5.151	-4.154	-1.74	-1.00	-0.74	
				153	6715			52T	38	-5.5	-1.5	-3.05	-0.26	-0.48	-1.11	-0.70	24.00	-24.70	-4.540	-5.079	-1.92	-1.00	-0.92	
				*185 (Straddle)	6875			40	-6.9	-0.1	-2.29	0.16	-1.10	-1.43	-0.40	24.00	-24.40	-4.969	-5.367	-1.86	-1.00	-0.86		
				117	6535			26T	0	-5.5	-1.5	-3.05	-0.26	-4.29	-3.30	-3.71	24.00	-27.71	-5.313	-4.443	-2.00	-1.00	-1.00	
				153	6715			26T	4	-5.5	-1.5	-3.05	-0.26	-2.36	-2.91	-2.57	24.00	-26.57	-4.845	-5.627	-2.37	-1.00	-1.37	
				*185 (Straddle)	6875			8	-6.9	-0.1	-2.29	0.16	-4.15	-4.42	-3.45	24.00	-27.45	-5.607	-5.579	-2.32	-1.00	-1.32		
				117	6535			52T + 26T	70	-5.5	-1.5	-3.05	-0.26	1.17	1.00	1.04	24.00	-22.96	-4.715	-3.856	-1.52	-1.00	-0.52	
				153	6715			52T + 26T	71	-5.5	-1.5	-3.05	-0.26	1.96	0.67	1.32	24.00	-22.68	-3.873	-5.084	-1.69	-1.00	-0.69	
				*185 (Straddle)	6875			72	-6.9	-0.1	-2.29	0.16	0.81	0.83	1.54	24.00	-22.46	-5.034	-4.913	-1.80	-1.00	-0.80		
				117	6535			106T + 26T	82	-5.5	-1.5	-3.05	-0.26	3.40	3.45	3.38	24.00	-20.62	-4.433	-4.530	-1.73	-1.00	-0.73	
				153	6715			106T + 26T	83	-5.5	-1.5	-3.05	-0.26	4.44	4.41	4.38	24.00	-19.62	-4.887	-4.104	-1.73	-1.00	-0.73	
				*185 (Straddle)	6875			83	-6.9	-0.1	-2.29	0.16	4.45	4.04	4.97	24.00	-19.03	-4.887	-5.409	-1.97	-1.00	-0.97		
			11be EHT40	123	6565			484T	65	-5.5	-1.5	-3.05	-0.26	7.62	7.53	7.83	24.00	-16.17	-5.034	-5.275	-2.10	-1.00	-1.10	
				147	6685				65	-5.5	-1.5	-3.05	-0.26	7.45	7.49	7.73	24.00	-16.27	-5.620	-5.329	-2.42	-1.00	-1.42	
				179	6845				65	-5.5	-1.5	-3.05	-0.26	7.65	6.10	7.20	24.00	-16.80	-3.812	-5.963	-1.70	-1.00	-0.70	
			11be EHT80	**119 (Straddle)	6545			996T	67	-5.2	-0.8	-2.47	0.29	10.84	12.11	12.58	24.00	-11.42	-5.719	-4.429	-1.22	-1.00	-0.22	
				151	6705				67	-5.5	-1.5	-3.05	-0.26	12.47	12.07	12.74	24.00	-11.26	-4.534	-4.543	-1.28	-1.00	-0.28	
				*183 (Straddle)	6865				67	-6.9	-0.1	-2.29	0.16	12.68	11.45	13.35	24.00	-10.65	-4.495	-5.494	-1.28	-1.00	-0.28	
				**119 (Straddle)	6545				484T + 242T Puncture	8	-5.2	-0.8	-2.47	0.29	7.91	7.98	8.58	24.00	-15.42	-7.501	-7.397	-4.06	-1.00	-3.06
			11be EHT160	151	6705			SU	192	-5.5	-1.5	-3.05	-0.26	8.57	7.96	8.32	24.00	-15.68	-6.192	-6.799	-3.65	-1.00	-2.65	
				*183 (Straddle)	6865				20MHz	1	-6.9	-0.1	-2.29	0.16	8.06	6.81	8.29	24.00	-15.71	-8.139	-9.623	-5.56	-1.00	-4.56
				143	6665				192	-5.5	-1.5	-3.05	-0.26	15.40	14.44	15.11	24.00	-8.89	-4.068	-4.885	-1.50	-1.00	-0.50	
				*175 (Straddle)	6825				996T + 484T Puncture 40MHz	1	-6.9	-0.1	-2.29	0.16	15.74	14.31	16.02	24.00	-7.98	-4.109	-5.134	-1.21	-1.00	-0.21
				143	6665				996T + 484T + 242T Puncture 40MHz	192	-5.5	-1.5	-3.05	-0.26	12.98	13.09	13.16	24.00	-10.84	-4.593	-4.423	-1.59	-1.00	-0.59
				*175 (Straddle)	6825				192	-6.9	-0.1	-2.29	0.16	13.89	12.01	13.95	24.00	-10.05	-3.888	-5.689	-1.36	-1.00	-0.36	
			143	6665	128			-5.5	-1.5	-3.05	-0.26	13.85	14.01	14.08	24.00	-9.92	-4.469	-4.461	-1.53	-1.00	-0.53			
			*175 (Straddle)	6825	128			-6.9	-0.1	-2.29	0.16	14.37	12.65	14.51	24.00	-9.49	-4.035	-5.982	-1.54	-1.00	-0.54			

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

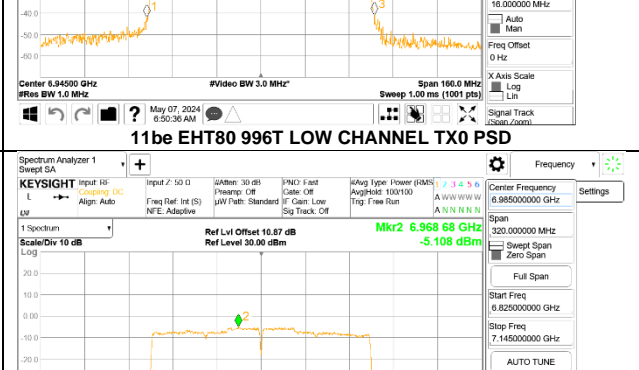
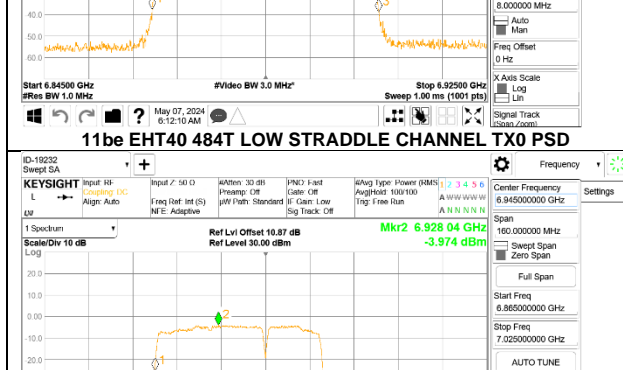
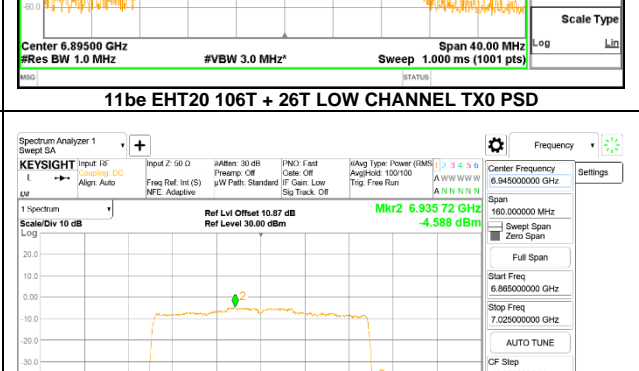
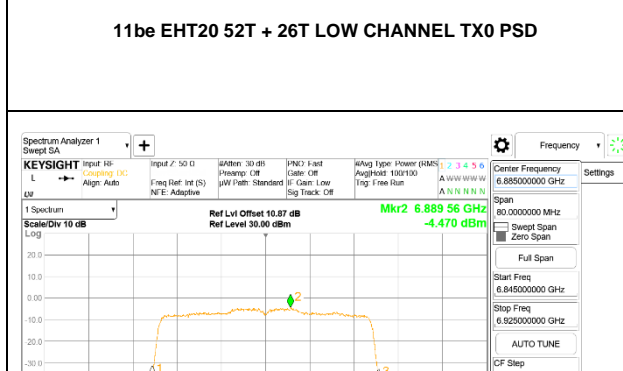
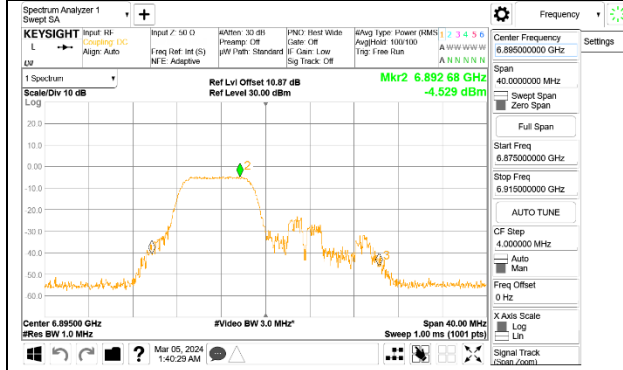
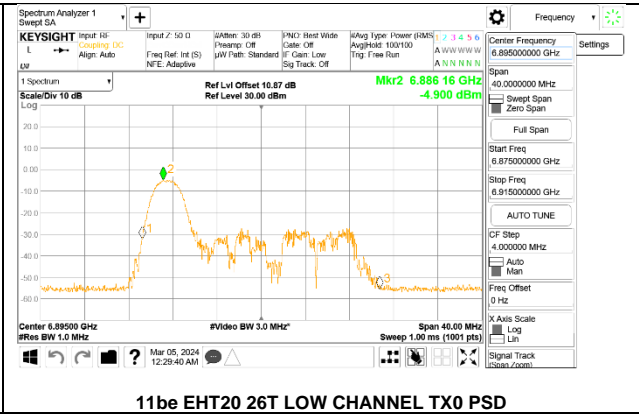
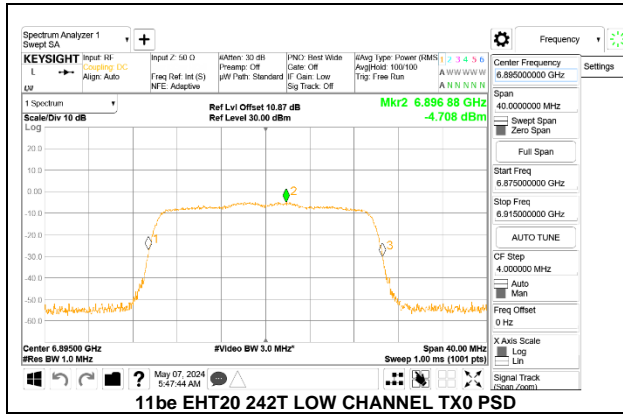
**straddle channel 119, 6545MHz using UNII-6 uncorrelated/correlated directional gain as worse case.

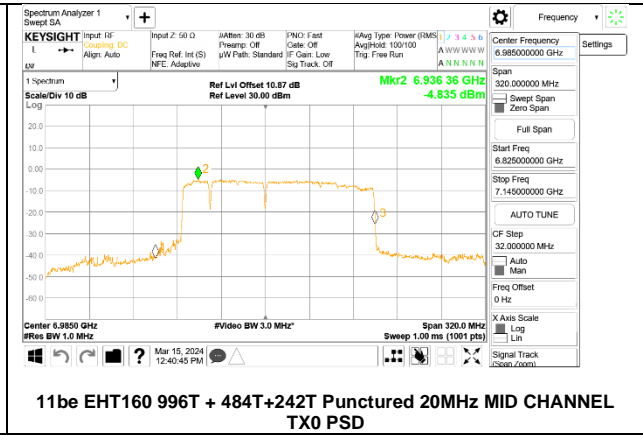
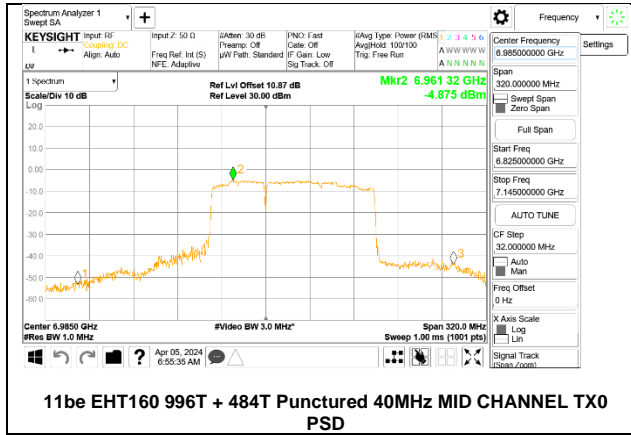




9.3.4. UNII-8

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 EIRP Power with DCCF (dBm)	EIRP Power Limit (dBm)	Power Margin (dB)	Measured PSD (dBm/1MHz) Tx0	Measured 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			-6.9	-0.1	-2.29	0.16	5.20	5.24	5.94	24.00	-18.06	-4.569	-4.347	-1.29	-1.00	-0.29
			209	6995			-6.9	-0.1	-2.29	0.16	5.64	4.68	5.91	24.00	-18.09	-4.063	-4.969	-1.32	-1.00	-0.32
			229	7095			-6.9	-0.1	-2.29	0.16	5.98	4.59	6.06	24.00	-17.94	-3.799	-4.894	-1.14	-1.00	-0.14
			189	6895			-6.9	-0.1	-2.29	0.16	5.20	5.13	6.03	24.00	-17.97	-4.708	-5.075	-1.57	-1.00	-0.57
			209	6995			-6.9	-0.1	-2.29	0.16	5.94	4.24	6.04	24.00	-17.96	-4.592	-6.153	-1.99	-1.00	-0.99
			229	7095			-6.9	-0.1	-2.29	0.16	5.74	4.31	5.95	24.00	-18.05	-4.398	-5.716	-1.69	-1.00	-0.69
			189	6895			-6.9	-0.1	-2.29	0.16	3.07	2.00	3.42	24.00	-20.58	-4.451	-5.536	-1.66	-1.00	-0.66
			209	6995			-6.9	-0.1	-2.29	0.16	2.57	1.44	2.88	24.00	-21.12	-5.281	-6.605	-2.57	-1.00	-1.57
			229	7095			-6.9	-0.1	-2.29	0.16	2.74	1.61	3.06	24.00	-20.94	-4.942	-6.128	-2.20	-1.00	-1.20
			189	6895			-6.9	-0.1	-2.29	0.16	-0.13	-0.50	0.55	24.00	-23.45	-4.841	-5.285	-1.75	-1.00	-0.75
			209	6995			-6.9	-0.1	-2.29	0.16	-0.67	-1.51	-0.21	24.00	-24.21	-5.702	-6.496	-2.78	-1.00	-1.78
			229	7095			-6.9	-0.1	-2.29	0.16	-0.72	-1.80	-0.37	24.00	-24.37	-5.291	-6.652	-2.62	-1.00	-1.62
		189	6895			-6.9	-0.1	-2.29	0.16	-2.97	-3.42	-2.36	24.00	-26.36	-4.900	-5.546	-1.94	-1.00	-0.94	
		209	6995			-6.9	-0.1	-2.29	0.16	-2.25	-2.73	-1.65	24.00	-25.65	-5.083	-6.048	-2.26	-1.00	-1.26	
		229	7095			-6.9	-0.1	-2.29	0.16	-3.69	-4.84	-3.40	24.00	-27.40	-5.605	-6.866	-2.92	-1.00	-1.92	
		189	6895			-6.9	-0.1	-2.29	0.16	2.19	1.12	2.41	24.00	-21.59	-4.529	-5.194	-1.68	-1.00	-0.68	
		209	6995			-6.9	-0.1	-2.29	0.16	2.17	1.46	2.55	24.00	-21.45	-5.099	-5.371	-2.06	-1.00	-1.06	
		229	7095			-6.9	-0.1	-2.29	0.16	2.59	1.01	2.60	24.00	-21.40	-4.115	-6.131	-1.84	-1.00	-0.84	
		189	6895			-6.9	-0.1	-2.29	0.16	4.61	2.95	4.58	24.00	-19.42	-4.967	-5.335	-1.98	-1.00	-0.98	
		209	6995			-6.9	-0.1	-2.29	0.16	4.14	2.94	4.31	24.00	-19.69	-4.665	-6.051	-2.13	-1.00	-1.13	
		229	7095			-6.9	-0.1	-2.29	0.16	4.60	2.84	4.53	24.00	-19.47	-4.471	-6.300	-2.12	-1.00	-1.12	
		187 (Straddle)	6885			-6.9	-0.1	-2.29	0.16	9.68	7.01	9.57	24.00	-14.43	-4.470	-6.032	-1.71	-1.00	-0.71	
		203	6965			-6.9	-0.1	-2.29	0.16	9.47	7.54	9.64	24.00	-14.36	-4.291	-5.382	-1.33	-1.00	-0.33	
		227	7085			-6.9	-0.1	-2.29	0.16	9.68	8.04	9.96	24.00	-14.04	-4.309	-6.043	-1.62	-1.00	-0.62	
		199	6945			-6.9	-0.1	-2.29	0.16	12.10	10.46	12.59	24.00	-11.41	-4.588	-5.032	-1.12	-1.00	-0.12	
		215	7025			-6.9	-0.1	-2.29	0.16	11.87	10.85	12.63	24.00	-11.37	-4.430	-5.459	-1.23	-1.00	-0.23	
		199	6945			-6.9	-0.1	-2.29	0.16	11.56	10.58	11.91	24.00	-12.09	-3.974	-4.825	-1.12	-1.00	-0.12	
		209	6995			-6.9	-0.1	-2.29	0.16	10.31	9.98	10.96	24.00	-13.04	-5.335	-5.734	-2.27	-1.00	-1.27	
		229	7095			-6.9	-0.1	-2.29	0.16	14.51	14.23	15.31	24.00	-8.69	-5.108	-4.190	-1.24	-1.00	-0.24	
		207	6985			-6.9	-0.1	-2.29	0.16	13.88	13.47	14.57	24.00	-9.43	-4.875	-5.369	-1.77	-1.00	-0.77	
		207	6985			-6.9	-0.1	-2.29	0.16	14.63	13.64	15.08	24.00	-8.92	-4.835	-5.950	-2.00	-1.00	-1.00	





9.4. STANDARD POWER OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.925-7.125 GHz

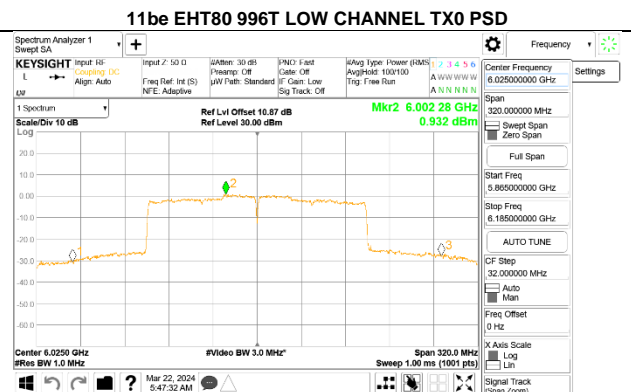
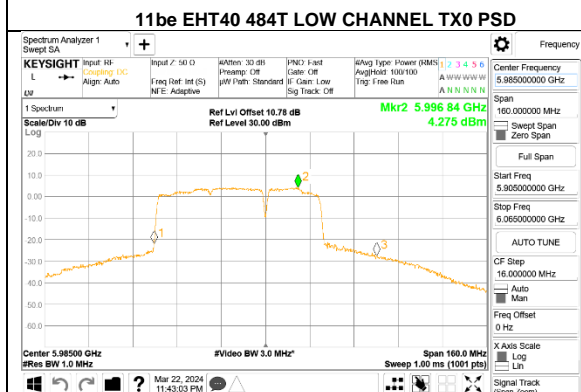
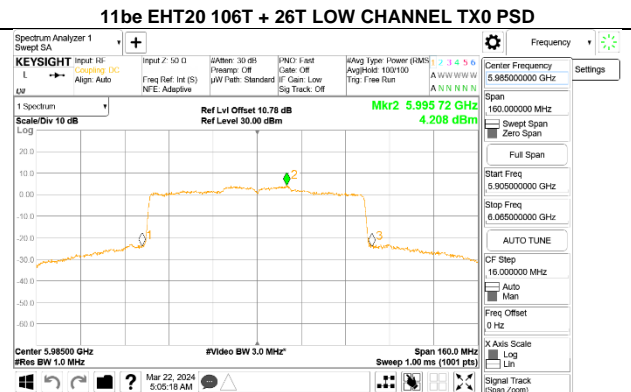
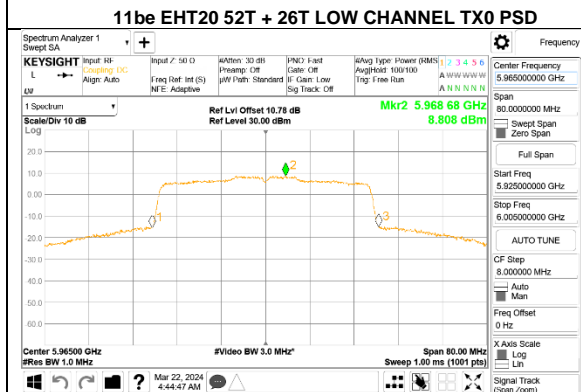
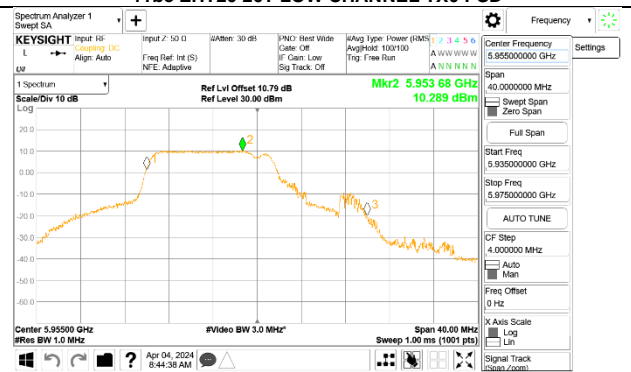
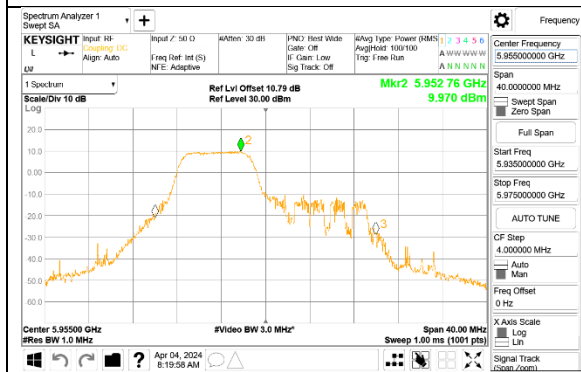
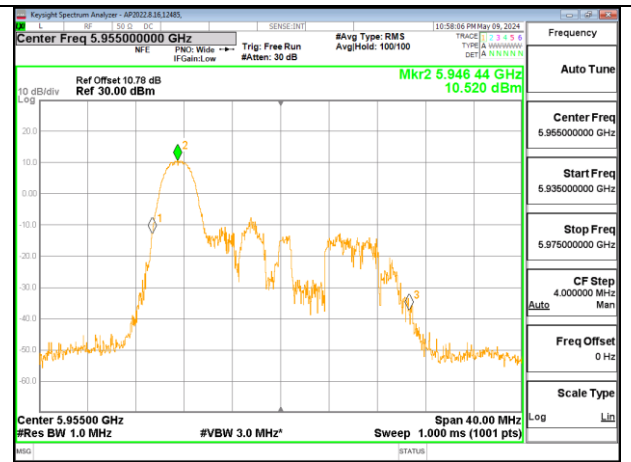
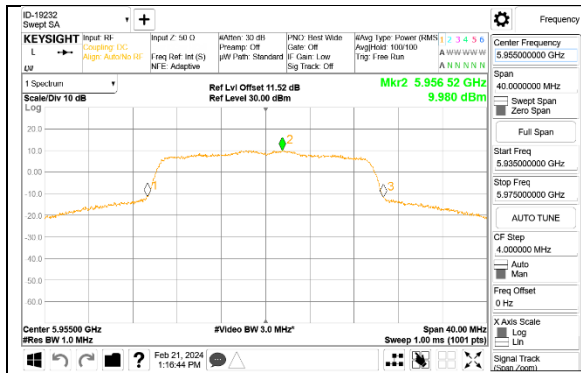
(7)For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. 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.

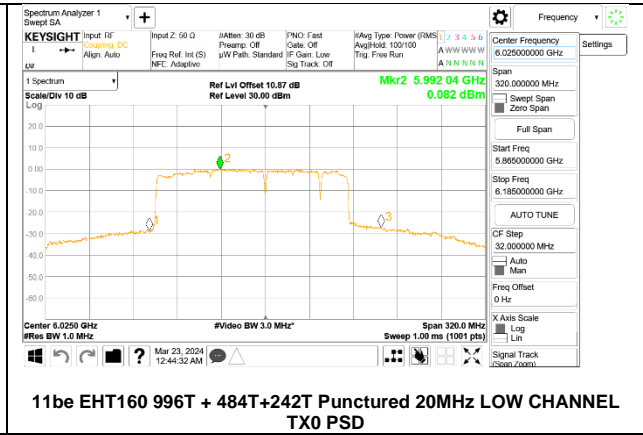
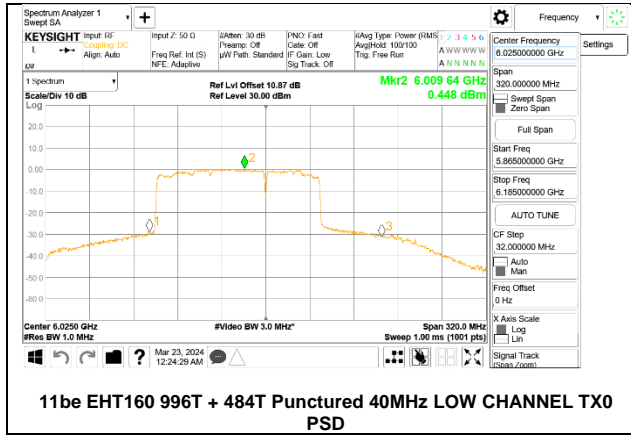
RESULT

Test Engineer:	NM 19232, HN 27979, 32480 BY, 32181 SR, 24971 BN
Test Date:	2024-02-01 TO 2024-05-10

9.4.1. UNII-5

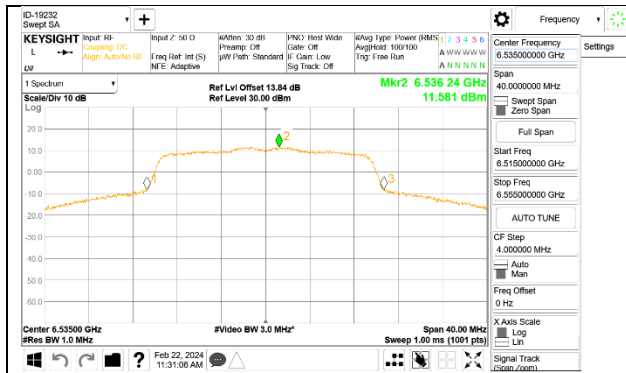
Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna	Antenna	Uncorrelated	Correlated	Measured	Measured	Total	ERP	Power	Measured	Measured	Corrected ERP	ERP PSD	ERP		
							Peak Gain (dBi)	Peak Gain (dBi)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Conducted Avg Power (dBm)	Conducted Avg Power (dBm)	Corrected ERP Power with DCCF (dBm)	Power Limit (dBm)	Margin (dB)	PSD (dBm/1MHz)	PSD (dBm/1MHz)	PSD with DCCF (dBm/1MHz)	Limit (dBm/1MHz)	Margin (dB)		
NII.5 (SP)	2	11a	1	5955			-3.8	-2.2	-2.93	0.05	20.23	20.24	20.32	30.00	-9.68	11.748	11.134	14.60	17.00	-2.40		
			45	6175			-3.8	-2.2	-2.93	0.05	20.37	20.62	20.58	30.00	-9.42	11.324	11.560	14.50	17.00	-2.50		
	93		6415			-3.8	-2.2	-2.93	0.05	20.13	20.80	20.56	30.00	-9.44	11.950	12.508	15.34	17.00	-1.66			
	1		5955			-3.8	-2.2	-2.93	0.05	19.81	20.64	20.47	30.00	-9.53	9.980	10.972	13.71	17.00	-3.29			
	45		6175	242T	61	-3.8	-2.2	-2.93	0.05	20.31	20.66	20.72	30.00	-9.28	10.373	11.130	13.97	17.00	-3.03			
	93		6415			-3.8	-2.2	-2.93	0.05	20.75	20.76	20.98	30.00	-9.02	11.242	12.314	15.01	17.00	-1.99			
	11be EHT20	106T	1	5955			-3.8	-2.2	-2.93	0.05	17.97	18.10	18.25	30.00	-11.75	10.197	10.481	13.53	17.00	-3.47		
			45	6175			-3.8	-2.2	-2.93	0.05	17.79	18.08	18.15	30.00	-11.85	10.782	10.378	13.77	17.00	-3.23		
			93	6415			-3.8	-2.2	-2.93	0.05	18.50	18.45	18.69	30.00	-11.31	11.117	12.013	14.77	17.00	-2.23		
			1	5955			-3.8	-2.2	-2.93	0.05	14.68	15.10	15.11	30.00	-14.89	9.970	10.607	13.49	17.00	-3.51		
			45	6175	52T		-3.8	-2.2	-2.93	0.05	14.63	15.30	15.19	30.00	-14.81	9.709	10.868	13.52	17.00	-3.48		
			93	6415			-3.8	-2.2	-2.93	0.05	15.55	16.36	16.19	30.00	-13.81	10.401	12.138	14.55	17.00	-2.45		
		11be EHT20	26T	1	5955			-3.8	-2.2	-2.93	0.05	13.16	13.34	13.44	30.00	-16.56	10.520	10.362	13.60	17.00	-3.40	
				45	6175			-3.8	-2.2	-2.93	0.05	13.42	13.48	13.64	30.00	-16.36	10.393	10.794	13.76	17.00	-3.24	
				93	6415			-3.8	-2.2	-2.93	0.05	12.65	13.95	13.54	30.00	-16.46	9.938	11.618	14.02	17.00	-2.98	
				1	5955			-3.8	-2.2	-2.93	0.05	17.15	17.52	17.42	30.00	-12.58	9.970	10.476	13.29	17.00	-3.71	
				45	6175	52T + 26T		-3.8	-2.2	-2.93	0.05	17.00	17.52	17.35	30.00	-12.65	10.101	10.620	13.43	17.00	-3.57	
				93	6415			-3.8	-2.2	-2.93	0.05	16.26	17.97	17.28	30.00	-12.72	11.058	12.121	14.68	17.00	-2.32	
			11be EHT20	106T + 26T	1	5955			-3.8	-2.2	-2.93	0.05	19.42	19.89	19.74	30.00	-10.26	10.289	10.770	13.59	17.00	-3.41
					45	6175			-3.8	-2.2	-2.93	0.05	19.45	20.04	19.84	30.00	-10.16	10.403	11.072	13.81	17.00	-3.19
					93	6415			-3.8	-2.2	-2.93	0.05	19.34	20.46	20.02	30.00	-9.98	11.810	12.073	15.00	17.00	-2.00
					3	5965			-3.8	-2.2	-2.93	0.05	20.42	19.85	20.53	30.00	-9.47	8.808	8.308	12.06	17.00	-4.94
					43	6165			-3.8	-2.2	-2.93	0.05	20.02	20.98	20.91	30.00	-9.09	7.117	8.635	11.43	17.00	-5.57
					91	6405			-3.8	-2.2	-2.93	0.05	20.71	20.59	21.04	30.00	-8.96	8.662	9.785	12.62	17.00	-4.38
			11be EHT20	996T	7	5985			-3.8	-2.2	-2.93	0.05	18.74	17.84	18.91	30.00	-11.09	4.208	3.146	7.28	17.00	-9.72
					39	6145			-3.8	-2.2	-2.93	0.05	20.88	21.62	21.86	30.00	-8.14	4.677	5.697	8.79	17.00	-8.21
					87	6385			-3.8	-2.2	-2.93	0.05	21.44	21.69	22.16	30.00	-7.84	5.502	6.775	9.76	17.00	-7.24
					7	5985	484T + 242T	8	-3.8	-2.2	-2.93	0.05	18.32	17.56	18.13	30.00	-11.87	4.275	3.534	7.07	17.00	-9.93
					39	6145	Puncture 20MHz	4	-3.8	-2.2	-2.93	0.05	19.56	19.96	19.98	30.00	-10.06	5.016	5.089	8.20	17.00	-8.80
					87	6385		1	-3.8	-2.2	-2.93	0.05	18.32	19.78	19.28	30.00	-10.72	6.673	6.328	9.65	17.00	-7.35
	11be EHT160	SU	15	6025			-3.8	-2.2	-2.93	0.05	19.10	18.70	19.20	30.00	-10.80	0.932	0.743	4.11	17.00	-12.89		
			47	6185			-3.8	-2.2	-2.93	0.05	21.35	22.01	21.99	30.00	-8.01	2.260	2.914	5.87	17.00	-11.13		
			79	6345			-3.8	-2.2	-2.93	0.05	21.50	22.97	22.59	30.00	-7.41	2.183	3.613	6.22	17.00	-10.78		
			15	6025	996T + 484T	192	-3.8	-2.2	-2.93	0.05	18.22	18.11	18.42	30.00	-11.58	0.448	0.195	3.55	17.00	-13.45		
			47	6185	Puncture 40MHz	48	-3.8	-2.2	-2.93	0.05	20.01	20.95	20.76	30.00	-9.24	2.212	2.725	5.70	17.00	-11.30		
			79	6345		3	-3.8	-2.2	-2.93	0.05	20.68	21.10	21.15	30.00	-8.85	2.081	2.343	5.44	17.00	-11.56		
		11be EHT160	996T + 484T + 242T Puncture 20MHz	15	6025			-3.8	-2.2	-2.93	0.05	18.57	18.61	18.86	30.00	-11.14	0.082	0.233	3.41	17.00	-13.59	
				47	6185			-3.8	-2.2	-2.93	0.05	20.82	21.35	21.37	30.00	-8.63	2.171	2.536	5.61	17.00	-11.39	
				79	6345			-3.8	-2.2	-2.93	0.05	21.19	21.45	21.60	30.00	-8.40	2.238	2.752	5.75	17.00	-11.25	



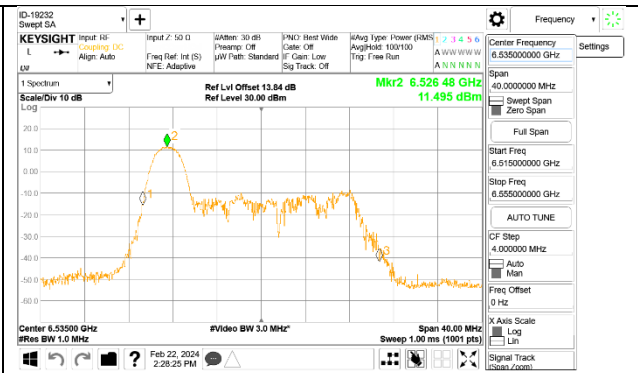


9.4.2. UNII-7

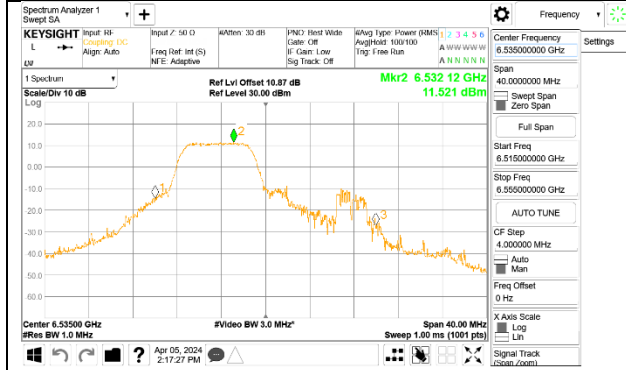
Band (GHz)	No. of Tx	Mode	Channel	Frequency (MHz)	Tones	RU Index	Antenna	Antenna	Uncorrelated	Correlated	Measured	Measured	Total	EIRP	Power	Measured	Measured	Corrected EIRP	EIRP PSD	EIRP PSD	
							Peak Gain (dBi)	Peak Gain (dBi)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Conducted Avg Power (dBm)	Conducted Avg Power (dBm)	Corrected ERP Power with DCCF (dBm)	Power Limit (dBm)	Margin (dB)	PSD (dBm/1MHz)	PSD (dBm/1MHz)	PSD with DCCF (dBm/1MHz)	Limit (dBm/1MHz)	Margin (dB)	
NII_7 (SP)	2	11a	117	6535			-5.5	-1.5	-3.05	-0.26	22.23	22.81	22.49	30.00	-7.51	12.353	12.836	15.35	17.00	-1.65	
			153	6715			-5.5	-1.5	-3.05	-0.26	22.92	22.44	22.64	30.00	-7.36	13.207	12.720	15.72	17.00	-1.28	
			181	6855			-5.5	-1.5	-3.05	-0.26	23.05	21.97	22.50	30.00	-7.50	13.831	12.196	15.84	17.00	-1.16	
			117	6535			-5.5	-1.5	-3.05	-0.26	22.06	22.51	22.39	30.00	-7.61	11.581	12.073	14.73	17.00	-2.27	
			153	6715	242T	61	-5.5	-1.5	-3.05	-0.26	22.52	22.24	22.48	30.00	-7.52	12.329	12.097	15.11	17.00	-1.89	
			181	6855			-5.5	-1.5	-3.05	-0.26	22.76	21.58	22.31	30.00	-7.69	12.852	11.620	15.17	17.00	-1.83	
			117	6535			-5.5	-1.5	-3.05	-0.26	18.74	19.79	19.38	30.00	-10.62	10.190	11.454	13.74	17.00	-3.26	
			153	6715	106T	53	-5.5	-1.5	-3.05	-0.26	19.95	19.54	19.83	30.00	-10.17	12.413	11.645	14.92	17.00	-2.08	
			181	6855			54	-5.5	-1.5	-3.05	-0.26	20.50	19.27	20.01	30.00	-9.99	12.616	11.569	15.00	17.00	-2.00
			117	6535			37	-5.5	-1.5	-3.05	-0.26	16.62	17.30	17.06	30.00	-12.94	11.402	12.120	14.66	17.00	-2.34
			153	6715			38	-5.5	-1.5	-3.05	-0.26	17.18	16.86	17.11	30.00	-12.89	12.373	11.834	14.99	17.00	-2.01
			181	6855			40	-5.5	-1.5	-3.05	-0.26	17.83	16.02	17.11	30.00	-12.89	13.130	11.152	15.13	17.00	-1.87
			117	6535			0	-5.5	-1.5	-3.05	-0.26	13.33	13.91	13.69	30.00	-16.31	11.495	12.052	14.64	17.00	-2.36
			153	6715	52T	38	-5.5	-1.5	-3.05	-0.26	15.01	14.56	14.85	30.00	-15.15	12.339	11.831	14.95	17.00	-2.05	
			181	6855			8	-5.5	-1.5	-3.05	-0.26	15.05	13.01	14.21	30.00	-15.79	13.098	10.762	14.94	17.00	-2.06
			117	6535			70	-5.5	-1.5	-3.05	-0.26	18.45	16.75	17.64	30.00	-12.36	11.521	11.776	14.40	17.00	-2.60
			153	6715	52T + 26T	71	-5.5	-1.5	-3.05	-0.26	19.00	16.56	17.90	30.00	-12.10	11.826	10.573	13.99	17.00	-3.01	
			181	6855			72	-5.5	-1.5	-3.05	-0.26	19.02	16.98	18.07	30.00	-11.93	12.285	11.591	14.70	17.00	-2.30
			117	6535			82	-5.5	-1.5	-3.05	-0.26	20.75	20.13	20.41	30.00	-9.59	12.256	11.647	14.71	17.00	-2.29
			153	6715	106T + 26T	83	-5.5	-1.5	-3.05	-0.26	20.95	20.56	20.71	30.00	-9.29	12.084	11.213	14.42	17.00	-2.58	
			181	6855				-5.5	-1.5	-3.05	-0.26	20.76	19.86	20.29	30.00	-9.71	11.731	10.657	13.98	17.00	-3.02
			117	6535				-5.5	-1.5	-3.05	-0.26	23.14	23.97	23.83	30.00	-6.17	10.197	11.432	13.91	17.00	-3.09
			153	6715	484T	65	-5.5	-1.5	-3.05	-0.26	23.68	23.77	23.98	30.00	-6.02	11.064	11.453	14.31	17.00	-2.69	
			181	6855				-5.5	-1.5	-3.05	-0.26	24.09	22.86	23.78	30.00	-6.22	11.276	9.991	13.73	17.00	-3.27
			117	6535				-5.5	-1.5	-3.05	-0.26	22.51	22.81	23.13	30.00	-6.87	6.339	6.587	9.73	17.00	-7.27
			153	6715	996T	67	-5.5	-1.5	-3.05	-0.26	22.71	22.81	23.23	30.00	-6.77	6.956	7.044	10.26	17.00	-6.74	
			181	6855				-5.5	-1.5	-3.05	-0.26	23.04	21.61	22.85	30.00	-7.15	7.260	5.468	9.72	17.00	-7.28
			117	6535			4	-5.5	-1.5	-3.05	-0.26	22.04	21.52	21.83	30.00	-8.17	7.033	6.550	9.64	17.00	-7.36
			151	6705	484T + 242T Puncture	2	-5.5	-1.5	-3.05	-0.26	22.45	21.59	22.09	30.00	-7.91	7.592	6.995	10.14	17.00	-6.86	
			167	6785	20MHz	1	-5.5	-1.5	-3.05	-0.26	22.39	20.32	21.46	30.00	-8.54	6.763	4.772	8.72	17.00	-8.28	
			143	6665	SU			-5.5	-1.5	-3.05	-0.26	24.32	23.25	23.98	30.00	-6.02	4.396	4.327	7.32	17.00	-9.68
			143	6665	996T + 484T Puncture 40MHz	192	-5.5	-1.5	-3.05	-0.26	21.66	20.75	21.35	30.00	-8.65	2.995	2.236	5.55	17.00	-11.45	
			143	6665	996T + 484T + 242T Puncture 20MHz	128	-5.5	-1.5	-3.05	-0.26	21.91	21.08	21.66	30.00	-8.34	2.393	1.551	4.93	17.00	-12.07	



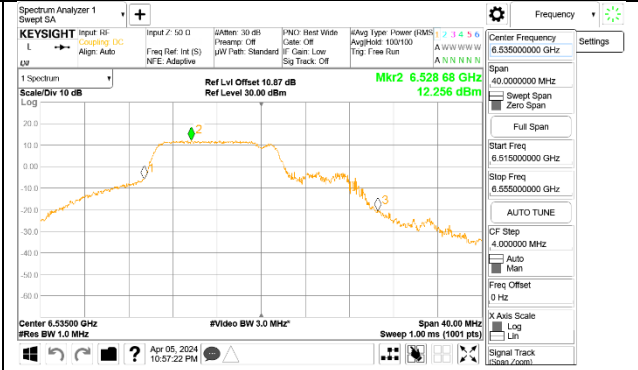
11be EHT20 242T LOW CHANNEL TX0 PSD



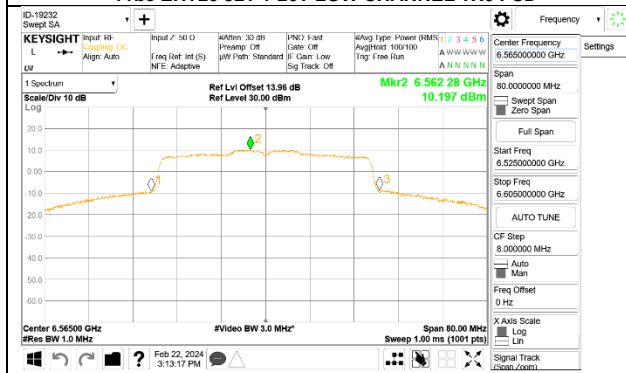
11be EHT20 26T LOW CHANNEL TX0 PSD



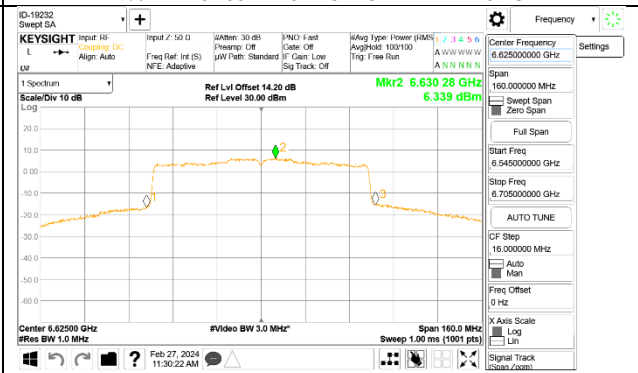
11be EHT20 52T + 26T LOW CHANNEL TX0 PSD



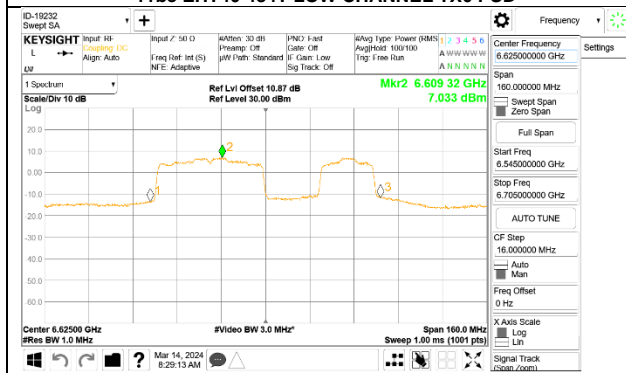
11be EHT20 106T + 26T LOW CHANNEL TX0 PSD



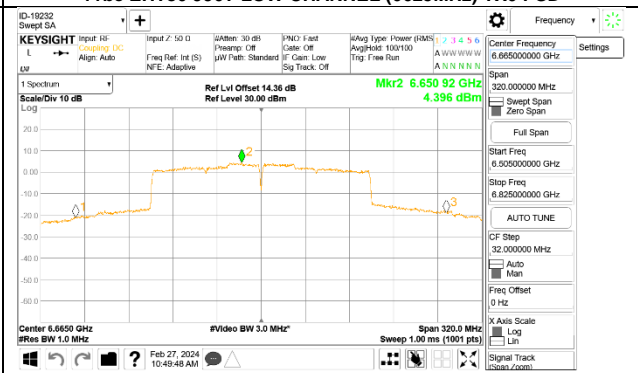
11be EHT40 484T LOW CHANNEL TX0 PSD



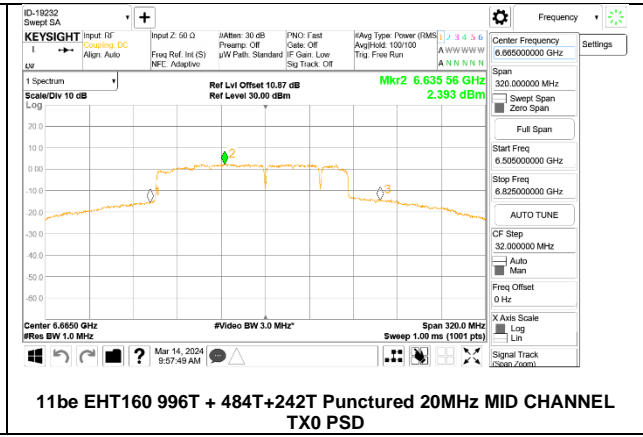
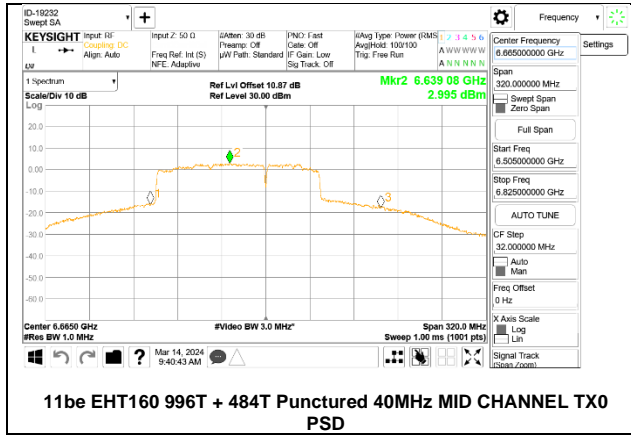
11be EHT80 996T LOW CHANNEL (6625MHz) TX0 PSD



11be EHT80 484T + 242T Punctured 20MHz LOW CHANNEL (6625MHz) TX0 PSD



11be EHT160 SU MID CHANNEL TX0 PSD



9.5. LOW POWER SPURIOUS EMISSIONS IN-BAND – EMISSION MASK

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.- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

TEST PROCEDURE

987594 D02 U-NII 6 GHz EMC Measurement Section II (J).

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10-2013.
3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (This will be used to determine the channel edge.)
4. Measure the power spectral density (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.

*According to Oct 25 2023 TCB Workshop:

However, as an option, a flat 1 MHz RBW may be used for the measurement of the PSD for placing the channel under the mask so long as 1 MHz is equal or greater than the RBW used for the initial EBW measurement.

→ 20, 40, and 80 MHz channels typically require a RBW of 1 MHz or less.

→ 160 and 320 MHz channels typically require a RBW of greater than 1 MHz.

For this report:

1. 1MHz RBW was used for 20, 40MHz channel
2. 1.6MHz RBW (same RBW as 80MHz EBW measurement) was used for 80MHz channel.
3. 3MHz RBW (same RBW as 160MHz EBW measurement) was used for 160MHz channel.

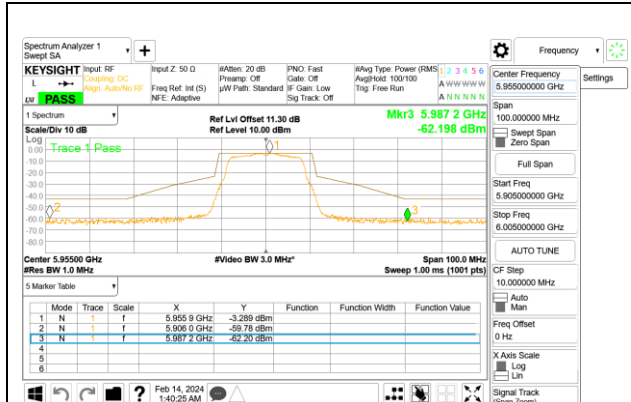
RESULTS

Report shows Full tones and 26Tones plots as worse case.

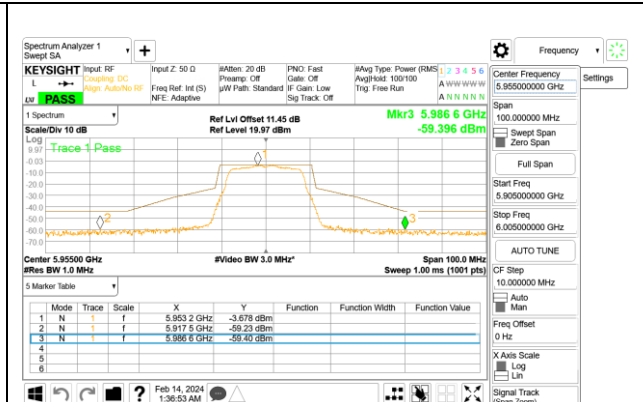
Test Engineer:	NM 19232, HN 27979, 32480 BY, 32181 SR, 24971 BN
Test Date:	2024-02-01 TO 2024-05-10

9.5.1. 802.11a MODE 2TX IN THE UNII-5

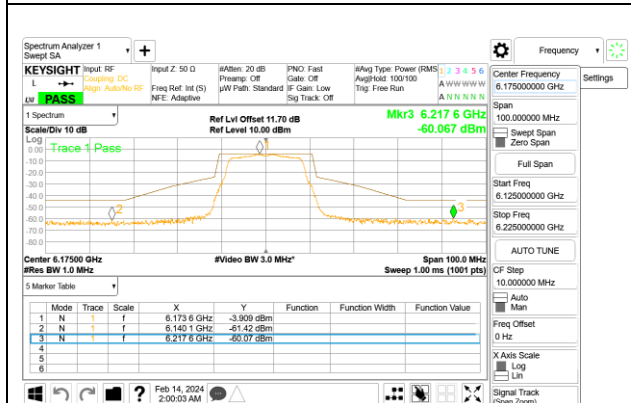
2TX Tx0 + Tx1 CDD



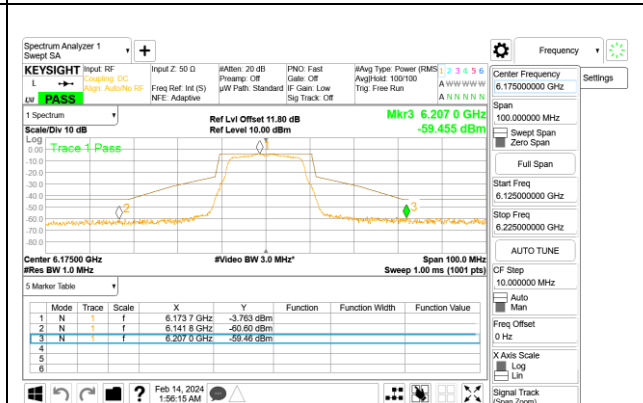
LOW CHANNEL Tx0



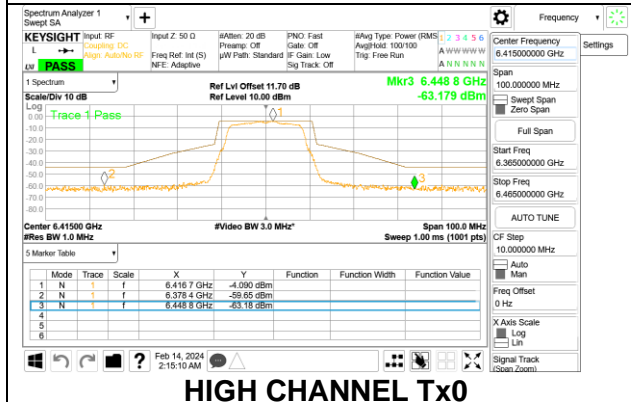
LOW CHANNEL Tx1



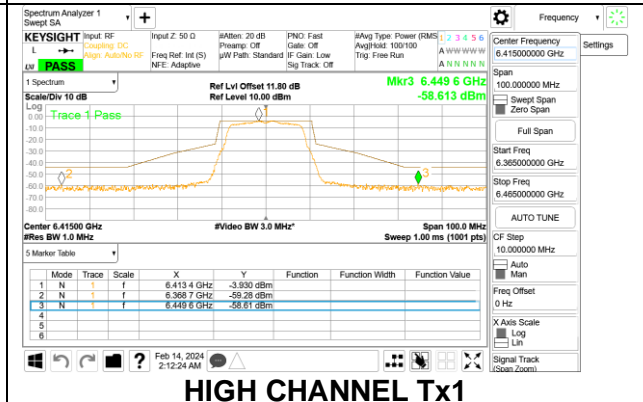
MID CHANNEL Tx0



MID CHANNEL Tx1



HIGH CHANNEL Tx0



HIGH CHANNEL Tx1