TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: **47 CFR FCC Part 15, Subpart E (Section 15.407)**
Report No.: RFBARR-WTW-P24120359-2
FCC ID: RAS-MT7925B14LA
Product: 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Brand: MediaTek
Model No.: MT7925B14LA
Received Date: 2024/12/11
Test Date: 2024/12/13 ~ 2025/3/28
Issued Date: 2025/4/7

Applicant: MediaTek Inc.
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FCC Registration / Designation Number: 723255 / TW2022

Approved by: _____ , **Date:** 2025/4/7
May Chen / Manager

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Prepared by : Phoenix Huang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P24120359-2	Original release.	2025/4/7

1 Certificate

Product:	2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Brand:	MediaTek
Test Model:	MT7925B14LA
Sample Status:	Engineering sample
Applicant:	MediaTek Inc.
Test Date:	2024/12/13 ~ 2025/3/28
Standard:	47 CFR FCC Part 15, Subpart E (Section 15.407)
Measurement procedure:	ANSI C63.10-2013 KDB 789033 D02 General UNII Test Procedure New Rules v02r01 KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -8.66 dB at 0.15000 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -1.1 dB at 286.63 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.12 dB at 5149.85 MHz
15.203	Antenna Requirement	Pass	Antenna connector is i-pex(MHF) not a standard connector.

Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The “Dynamic Frequency Selection measurement” was recorded in DFS test report.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
26 dB Bandwidth	-	1050.00 Hz
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	1050.00 Hz
Occupied Bandwidth	-	1050.00 Hz
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.5 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7925B14LA
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2401.9 Mbps 802.11be: up to 2882.4 Mbps
Operating Frequency	5.18 GHz ~ 5.25 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40): 12 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80): 6 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160): 2
Resource Unit (RU)	Single RU: 26-tone, 52-tone, 106-tone, 242-tone, 484-tone, 996-tone, 2 * 996-tone Multi-RU (Small RU):52-tone + 26-tone, 106-tone + 26-tone Multi-RU (Large RU):484-tone + 242-tone, 996-tone +484-tone, 996-tone +484-tone + 242-tone
Output Power	**1TX:** 5.18 GHz ~ 5.25 GHz: 97.499 mW (19.89 dBm) 5.26 GHz ~ 5.32 GHz: 96.828 mW (19.86 dBm) 5.5 GHz ~ 5.72 GHz: 134.586 mW (21.29 dBm) 5.745 GHz ~ 5.825 GHz: 195.434 mW (22.91 dBm) **2TX:** 5.18 GHz ~ 5.25 GHz: 100.704 mW (20.03 dBm) 5.26 GHz ~ 5.32 GHz: 116.559 mW (20.67 dBm) 5.5 GHz ~ 5.72 GHz: 122.754 mW (20.89 dBm) 5.745 GHz ~ 5.825 GHz: 393.145 mW (25.95 dBm)
EUT Category	Client device

Note:

1. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.
2. Simultaneously transmission combination.

Combination	Technology	
1	WLAN (5 GHz) (2TX)	Bluetooth
2	WLAN (5.9 GHz) (2TX)	Bluetooth
3	WLAN (6 GHz) (2TX)	Bluetooth
4	WLAN (2.4 GHz) (1TX)	WLAN (5 GHz) (1TX)
5	WLAN (2.4 GHz) (1TX)	WLAN (5.9 GHz) (1TX)
6	WLAN (2.4 GHz) (1TX)	WLAN (6 GHz) (1TX)
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.		

3. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.
4. The EUT support MRU mode is listed as below.

BW	Small size		Large size		
	52+26-tone MRU	106+26-tone MRU	484+242-tone MRU	996+484-tone MRU	996+484+242-tone MRU
20 MHz	v	v	-	-	-
40 MHz	v	v	-	-	-
80 MHz	v	v	v	-	-
160 MHz	v	v	v	v	v

5. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Set	RF Chain NO.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4 ~ 2.4835 5.15 ~ 5.895 5.925 ~ 6.425 6.425 ~ 6.525 6.525 ~ 6.875 6.875 ~ 7.125	PIFA	i-pex(MHF)	200
	Chain1	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4 ~ 2.4835 5.15 ~ 5.895 5.925 ~ 6.425 6.425 ~ 6.525 6.525 ~ 6.875 6.875 ~ 7.125	PIFA	i-pex(MHF)	200
2	Chain0	INPAQ	RFFPA493517EMAB901	6.19	2.4 ~ 2.4835	PIFA	i-pex(MHF)	125
	Chain1	INPAQ	RFFPA493517EMAB901	6.19	2.4 ~ 2.4835	PIFA	i-pex(MHF)	125
3	Chain0	INPAQ	RFFPA494517EM5B901	8.37	5.15 ~ 5.925	PIFA	i-pex(MHF)	125
	Chain1	INPAQ	RFFPA494517EM5B901	8.37	5.15 ~ 5.925	PIFA	i-pex(MHF)	125
4	Chain0	INPAQ	RFFPA494217EM6B901	8.37	5.925 ~ 7.125	PIFA	i-pex(MHF)	125
	Chain1	INPAQ	RFFPA494217EM6B901	8.37	5.925 ~ 7.125	PIFA	i-pex(MHF)	125
5	Chain0	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925 ~ 6.425 6.425 ~ 6.525 6.525 ~ 6.875 6.875 ~ 7.125	PIFA	i-pex(MHF)	300
	Chain1	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925 ~ 6.425 6.425 ~ 6.525 6.525 ~ 6.875 6.875 ~ 7.125	PIFA	i-pex(MHF)	300

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

5 GHz Band					
Modulation Mode	**TX & RX Configuration**			**CDD Mode**	**Beamforming Mode**
802.11a	SIMO	1TX (Diversity)	2RX	-	-
802.11n (HT20)		1TX (Diversity)	2RX	-	-
802.11n (HT40)		1TX (Diversity)	2RX	-	-
802.11ac (VHT20)		1TX (Diversity)	2RX	-	-
802.11ac (VHT40)		1TX (Diversity)	2RX	-	-
802.11ac (VHT80)		1TX (Diversity)	2RX	-	-
802.11ac (VHT160)		1TX (Diversity)	2RX	-	-
802.11ax (HE20)		1TX (Diversity)	2RX	-	-
802.11ax (HE40)		1TX (Diversity)	2RX	-	-
802.11ax (HE80)		1TX (Diversity)	2RX	-	-
802.11ax (HE160)		1TX (Diversity)	2RX	-	-
802.11be (EHT20)		1TX (Diversity)	2RX	-	-
802.11be (EHT40)		1TX (Diversity)	2RX	-	-
802.11be (EHT80)		1TX (Diversity)	2RX	-	-
802.11be (EHT160)		1TX (Diversity)	2RX	-	-
802.11ax (RU26/52/106/242/484/996/2*996)		1TX (Diversity)	2RX	-	-
802.11be (RU26/52/106/242/484/996/2*996 MRU52+26/106+26/484+242/ 996+484/996+484+242)		1TX (Diversity)	2RX	-	-
802.11a	MIMO	2TX	2RX	Support	Not Support
802.11n (HT20)		2TX	2RX	Support NSS2	Not Support
802.11n (HT40)		2TX	2RX	Support NSS2	Not Support
802.11ac (VHT20)		2TX	2RX	Support NSS2	Not Support
802.11ac (VHT40)		2TX	2RX	Support NSS2	Not Support
802.11ac (VHT80)		2TX	2RX	Support NSS2	Not Support
802.11ac (VHT160)		2TX	2RX	Support NSS2	Not Support
802.11ax (HE20)		2TX	2RX	Support NSS2	Not Support
802.11ax (HE40)		2TX	2RX	Support NSS2	Not Support
802.11ax (HE80)		2TX	2RX	Support NSS2	Not Support
802.11ax (HE160)		2TX	2RX	Support NSS2	Not Support
802.11be (EHT20)		2TX	2RX	Support NSS2	Not Support
802.11be (EHT40)		2TX	2RX	Support NSS2	Not Support
802.11be (EHT80)		2TX	2RX	Support NSS2	Not Support
802.11be (EHT160)		2TX	2RX	Support NSS2	Not Support
802.11ax (RU26/52/106/242/484/996/2*996)		2TX	2RX	Support NSS2	Not Support
802.11be (RU26/52/106/242/484/996/2*996 MRU52+26/106+26/484+242/ 996+484/996+484+242)		2TX	2RX	Support NSS2	Not Support
Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160 MHz), 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) and 802.11be mode for 20 MHz (40 MHz, 80 MHz, 160 MHz). Therefore the investigated worst case is the representative mode in test report.					

3.3 Channel List

FOR 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	54	5270 MHz
46	5230 MHz	62	5310 MHz

2 channels are provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency
114	5570 MHz

FOR 5745 ~ 5825 MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). 2. The worst-case Partial RU modes across all supported bandwidth modes has been determined via pre-scan. The worst case occurs in 20 MHz bandwidth (RU 26/52/106). 3. For 1TX diversity configuration, transmit chain 0 and chain 1 have been evaluated, the chain 0 was the worst case and chosen for representative test.

Following channel(s) was (were) selected for the final test as listed below:

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
26 dB Bandwidth	A	802.11a	1T / 2T	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s	NA
		802.11be (EHT20)	1S1T / 2S2T	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0	NA
		802.11be (EHT40)	1S1T / 2S2T	54, 62, 102, 110, 134, 142	BPSK	MCS0	NA
		802.11be (EHT80)	1S1T / 2S2T	58, 106, 122, 138	BPSK	MCS0	NA
		802.11be (EHT160)	1S1T / 2S2T	50, 114	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	64, 100, 140, 144	BPSK	MCS0	8, 0, 8, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	64, 100, 140, 144	BPSK	MCS0	40, 37, 40, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	64, 100, 140, 144	BPSK	MCS0	54, 53, 54, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	64, 100, 140, 144	BPSK	MCS0	72, 70, 72, 72
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	64, 100, 140, 144	BPSK	MCS0	83, 82, 83, 83
		802.11be (EHT80) 484+242-tone MRU	1S1T / 2S2T	58, 106, 138	BPSK	MCS0	91, 92, 90
		802.11be (EHT160) 996+484-tone MRU	1S1T / 2S2T	50, 114	BPSK	MCS0	95-1, 95-1
		802.11be (EHT160) 996+484+242-tone MRU	1S1T / 2S2T	50, 114	BPSK	MCS0	99-1, 99-1
RF Output Power	A	802.11a	1T / 2T	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s	NA
		802.11ac (VHT20)	1S1T / 2S2T	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	NA
		802.11ac (VHT40)	1S1T / 2S2T	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0	NA
		802.11ac (VHT80)	1S1T / 2S2T	42, 58, 106, 122, 138, 155	BPSK	MCS0	NA
		802.11ac (VHT160)	1S1T / 2S2T	50, 114	BPSK	MCS0	NA

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
RF Output Power	A	802.11ax (HE20)	1S1T / 2S2T	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	NA
		802.11ax (HE40)	1S1T / 2S2T	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0	NA
		802.11ax (HE80)	1S1T / 2S2T	42, 58, 106, 122, 138, 155	BPSK	MCS0	NA
		802.11ax (HE160)	1S1T / 2S2T	50, 114	BPSK	MCS0	NA
		802.11be (EHT20)	1S1T / 2S2T	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	NA
		802.11be (EHT40)	1S1T / 2S2T	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0	NA
		802.11be (EHT80)	1S1T / 2S2T	42, 58, 106, 122, 138, 155	BPSK	MCS0	NA
		802.11be (EHT160)	1S1T / 2S2T	50, 114	BPSK	MCS0	NA
		802.11ax (HE20) 26-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	0, 8, 0, 8, 8, 0, 8
		802.11ax (HE20) 52-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	37, 40, 37, 40, 40, 37, 40
		802.11ax (HE20) 106-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	53, 54, 53, 54, 54, 53, 54
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	0, 8, 0, 8, 8, 0, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	37, 40, 37, 40, 40, 37, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	53, 54, 53, 54, 54, 53, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	70, 72, 70, 72, 72, 70, 72
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	82, 83, 82, 83, 83, 82 ,83
		802.11be (EHT80) 484+242-tone MRU	1S1T / 2S2T	42, 58, 106, 138, 155	BPSK	MCS0	92, 91, 92, 90, 93
		802.11be (EHT160) 996+484-tone MRU	1S1T / 2S2T	50, 114	BPSK	MCS0	95-1, 95-1
		802.11be (EHT160) 996+484+242-tone MRU	1S1T / 2S2T	50, 114	BPSK	MCS0	99-1, 99-1

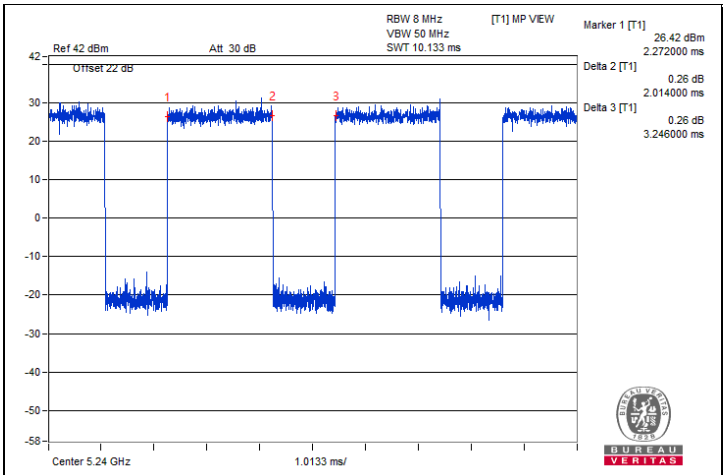
Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
Power Spectral Density	A	802.11a	1T / 2T	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s	NA
		802.11be (EHT20)	1S1T / 2S2T	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	NA
		802.11be (EHT40)	1S1T / 2S2T	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0	NA
		802.11be (EHT80)	1S1T / 2S2T	42, 58, 106, 122, 138, 155	BPSK	MCS0	NA
		802.11be (EHT160)	1S1T / 2S2T	50, 114	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	0, 8, 0, 8, 8, 0, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	37, 40, 37, 40, 40, 37, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	53, 54, 53, 54, 54, 53, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	70, 72, 70, 72, 72, 70, 72
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	82, 83, 82, 83, 83, 82 ,83
		802.11be (EHT80) 484+242-tone MRU	1S1T / 2S2T	42, 58, 106, 138, 155	BPSK	MCS0	92, 91, 92, 90, 93
		802.11be (EHT160) 996+484-tone MRU	1S1T / 2S2T	50, 114	BPSK	MCS0	95-1, 95-1
		802.11be (EHT160) 996+484+242-tone MRU	1S1T / 2S2T	50, 114	BPSK	MCS0	99-1, 99-1
6 dB Bandwidth	A	802.11a	1T / 2T	144, 149, 157, 165	BPSK	6Mb/s	NA
		802.11be (EHT20)	1S1T / 2S2T	144, 149, 157, 165	BPSK	MCS0	NA
		802.11be (EHT40)	1S1T / 2S2T	142, 151, 159	BPSK	MCS0	NA
		802.11be (EHT80)	1S1T / 2S2T	138, 155	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	144, 149, 165	BPSK	MCS0	8, 0, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	144, 149, 165	BPSK	MCS0	40, 37, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	144, 149, 165	BPSK	MCS0	54, 53, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	144, 149, 165	BPSK	MCS0	72, 70, 72
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	144, 149, 165	BPSK	MCS0	83, 82 ,83
		802.11be (EHT80) 484+242-tone MRU	1S1T / 2S2T	155	BPSK	MCS0	93

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
Occupied Bandwidth	A	802.11a	1T / 2T	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s	NA
		802.11be (EHT20)	1S1T / 2S2T	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	NA
		802.11be (EHT40)	1S1T / 2S2T	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0	NA
		802.11be (EHT80)	1S1T / 2S2T	42, 58, 106, 122, 138, 155	BPSK	MCS0	NA
		802.11be (EHT160)	1S1T / 2S2T	50, 114	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	0, 8, 0, 8, 8, 0, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	37, 40, 37, 40, 40, 37, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	53, 54, 53, 54, 54, 53, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	70, 72, 70, 72, 72, 70, 72
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	82, 83, 82, 83, 83, 82 ,83
		802.11be (EHT80) 484+242-tone MRU	1S1T / 2S2T	42, 58, 106, 138, 155	BPSK	MCS0	92, 91, 92, 90, 93
		802.11be (EHT160) 996+484-tone MRU	1S1T / 2S2T	50, 114	BPSK	MCS0	95-1, 95-1
		802.11be (EHT160) 996+484+242-tone MRU	1S1T / 2S2T	50, 114	BPSK	MCS0	99-1, 99-1
AC Power Conducted Emissions	C	802.11be (EHT20)	1S1T	149	BPSK	MCS0	NA
		802.11a	2TX	165	BPSK	6Mb/s	NA
Unwanted Emissions below 1 GHz	A, B	802.11be (EHT20)	1S1T	149	BPSK	MCS0	NA
		802.11a	2TX	165	BPSK	6Mb/s	NA

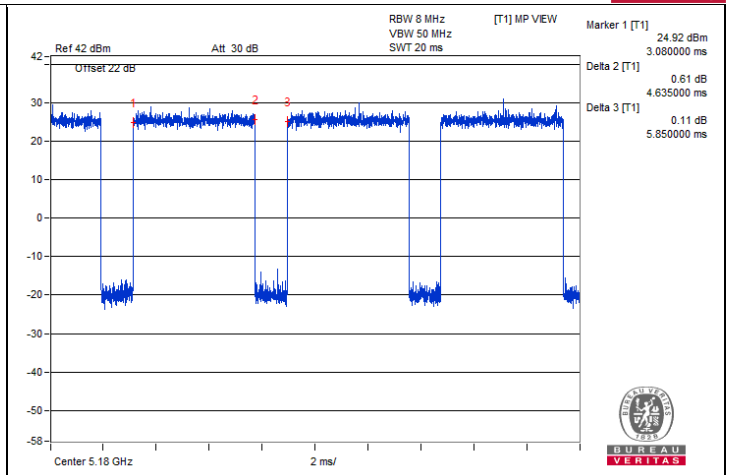
Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
Unwanted Emissions above 1 GHz	A, B	802.11a	1TX / 2TX	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s	NA
		802.11be (EHT20)	1S1T / 2S2T	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	NA
		802.11be (EHT40)	1S1T / 2S2T	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0	NA
		802.11be (EHT80)	1S1T / 2S2T	42, 58, 106, 122, 138, 155	BPSK	MCS0	NA
		802.11be (EHT160)	1S1T / 2S2T	50, 114	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	0, 8, 0, 8, 8, 0, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	37, 40, 37, 40, 40, 37, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	53, 54, 53, 54, 54, 53, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	70, 72, 70, 72, 72, 70, 72
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	36, 64, 100, 140, 144, 149, 165	BPSK	MCS0	82, 83, 82, 83, 83, 82 ,83
		802.11be (EHT80) 484+242-tone MRU	1S1T / 2S2T	42, 58, 106, 138, 155	BPSK	MCS0	92, 91, 92, 90, 93
		802.11be (EHT160) 996+484-tone MRU	1S1T / 2S2T	50, 114	BPSK	MCS0	95-1, 95-1
		802.11be (EHT160) 996+484+242-tone MRU	1S1T / 2S2T	50, 114	BPSK	MCS0	99-1, 99-1
EUT Configure Mode:	A	EUT only (remove 50 ohm terminator and Connect to the appropriate equipment)					
	B	EUT with 50 ohm terminator					
	C	EUT with antenna (PIFA Antenna Set 3)					
Note: Channel puncturing mechanism is not supported.							

3.5 Duty Cycle of Test Signal

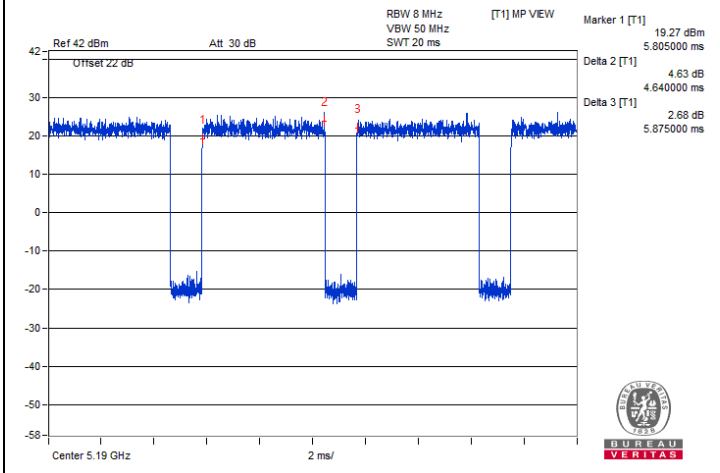
802.11a 1TX:
Duty cycle = 2.014 ms / 3.246 ms x 100% = 62.0%, duty factor = 10 * log (1/Duty cycle) = 2.07 dB
802.11ac (VHT20) 1S1T:
Duty cycle = 4.635 ms / 5.85 ms x 100% = 79.2%, duty factor = 10 * log (1/Duty cycle) = 1.01 dB
802.11ac (VHT40) 1S1T:
Duty cycle = 4.64 ms / 5.875 ms x 100% = 79.0%, duty factor = 10 * log (1/Duty cycle) = 1.02 dB
802.11ac (VHT80) 1S1T:
Duty cycle = 2.26 ms / 2.885 ms x 100% = 78.3%, duty factor = 10 * log (1/Duty cycle) = 1.06 dB
802.11ac (VHT160) 1S1T:
Duty cycle = 2.06 ms / 2.565 ms x 100% = 80.3%, duty factor = 10 * log (1/Duty cycle) = 0.95 dB
802.11ax (HE20) 1S1T:
Duty cycle = 4.635 ms / 5.85 ms x 100% = 79.2%, duty factor = 10 * log (1/Duty cycle) = 1.01 dB
802.11ax (HE40) 1S1T:
Duty cycle = 4.64 ms / 5.875 ms x 100% = 79.0%, duty factor = 10 * log (1/Duty cycle) = 1.02 dB
802.11ax (HE80) 1S1T:
Duty cycle = 2.26 ms / 2.885 ms x 100% = 78.3%, duty factor = 10 * log (1/Duty cycle) = 1.06 dB
802.11ax (HE160) 1S1T:
Duty cycle = 2.06 ms / 2.565 ms x 100% = 80.3%, duty factor = 10 * log (1/Duty cycle) = 0.95 dB
802.11be (EHT20) 1S1T:
Duty cycle = 4.635 ms / 5.85 ms x 100% = 79.2%, duty factor = 10 * log (1/Duty cycle) = 1.01 dB
802.11be (EHT40) 1S1T:
Duty cycle = 4.64 ms / 5.875 ms x 100% = 79.0%, duty factor = 10 * log (1/Duty cycle) = 1.02 dB
802.11be (EHT80) 1S1T:
Duty cycle = 2.26 ms / 2.885 ms x 100% = 78.3%, duty factor = 10 * log (1/Duty cycle) = 1.06 dB
802.11be (EHT160) 1S1T:
Duty cycle = 2.06 ms / 2.565 ms x 100% = 80.3%, duty factor = 10 * log (1/Duty cycle) = 0.95 dB
802.11ax (HE20) 26-tone RU 1S1T:
Duty cycle = 1.603 ms / 1.674 ms x 100% = 95.8%, duty factor = 10 * log (1/Duty cycle) = 0.19 dB
802.11ax (HE20) 52-tone RU 1S1T:
Duty cycle = 1.522 ms / 1.583 ms x 100% = 96.1%, duty factor = 10 * log (1/Duty cycle) = 0.17 dB
802.11ax (HE20) 106-tone RU 1S1T:
Duty cycle = 1.396 ms / 1.454 ms x 100% = 96.0%, duty factor = 10 * log (1/Duty cycle) = 0.18 dB
802.11be (EHT20) 26-tone RU 1S1T:
Duty cycle = 1.603 ms / 1.674 ms x 100% = 95.8%, duty factor = 10 * log (1/Duty cycle) = 0.19 dB
802.11be (EHT20) 52-tone RU 1S1T:
Duty cycle = 1.522 ms / 1.583 ms x 100% = 96.1%, duty factor = 10 * log (1/Duty cycle) = 0.17 dB
802.11be (EHT20) 106-tone RU 1S1T:
Duty cycle = 1.396 ms / 1.454 ms x 100% = 96.0%, duty factor = 10 * log (1/Duty cycle) = 0.18 dB
802.11be (EHT20) 52+26-tone MRU 1S1T:
Duty cycle = 1.49 ms / 1.548 ms x 100% = 96.3%, duty factor = 10 * log (1/Duty cycle) = 0.17 dB
802.11be (EHT20) 106+26-tone MRU 1S1T:
Duty cycle = 1.662 ms / 1.743 ms x 100% = 95.4%, duty factor = 10 * log (1/Duty cycle) = 0.21 dB
802.11be (EHT80) 484+242-tone MRU 1S1T:
Duty cycle = 1.2 ms / 1.28 ms x 100% = 93.8%, duty factor = 10 * log (1/Duty cycle) = 0.28 dB
802.11be (EHT160) 996+484-tone MRU 1S1T:
Duty cycle = 1.14 ms / 1.22 ms x 100% = 93.4%, duty factor = 10 * log (1/Duty cycle) = 0.29 dB
802.11be (EHT160) 996+484+242-tone MRU 1S1T:
Duty cycle = 1.155 ms / 1.24 ms x 100% = 93.1%, duty factor = 10 * log (1/Duty cycle) = 0.31 dB



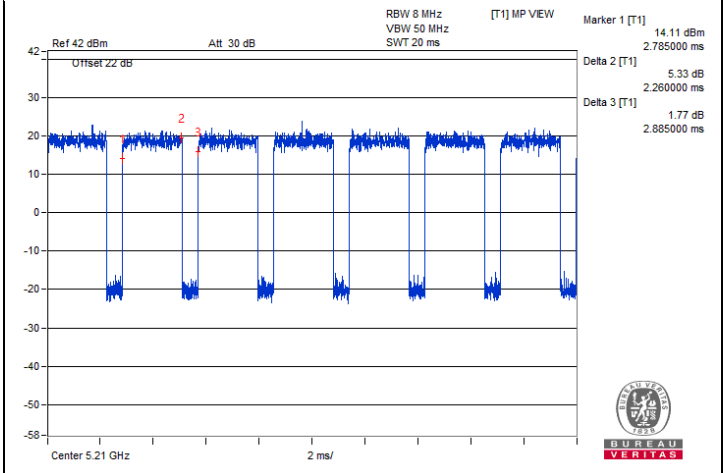
802.11a 1T



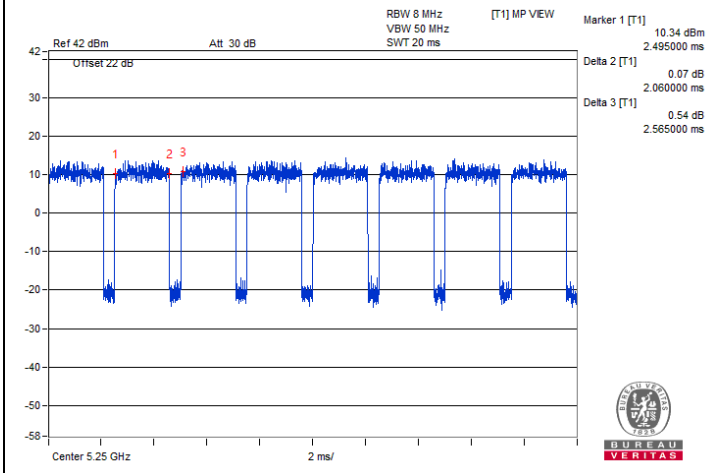
802.11ac (VHT20) 1S1T



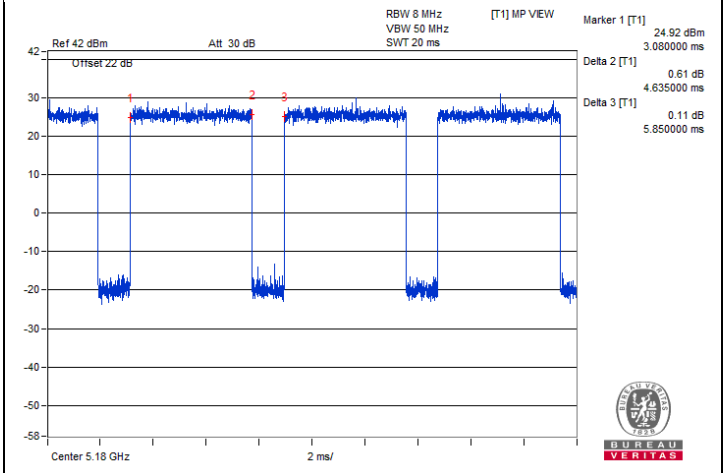
802.11ac (VHT40) 1S1T



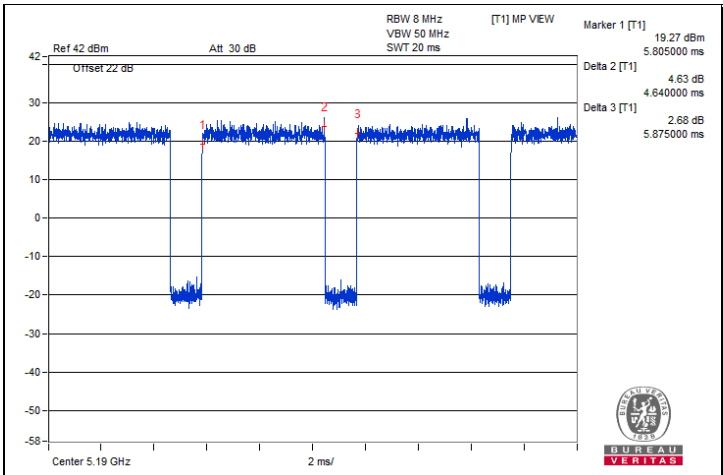
802.11ac (VHT80) 1S1T



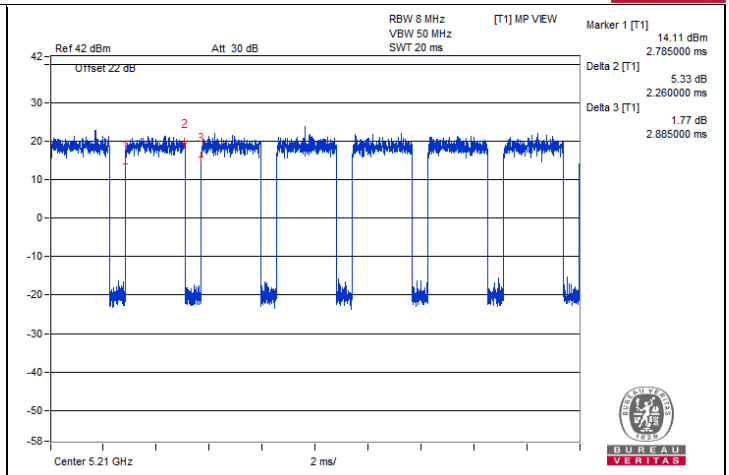
802.11ac (VHT160) 1S1T



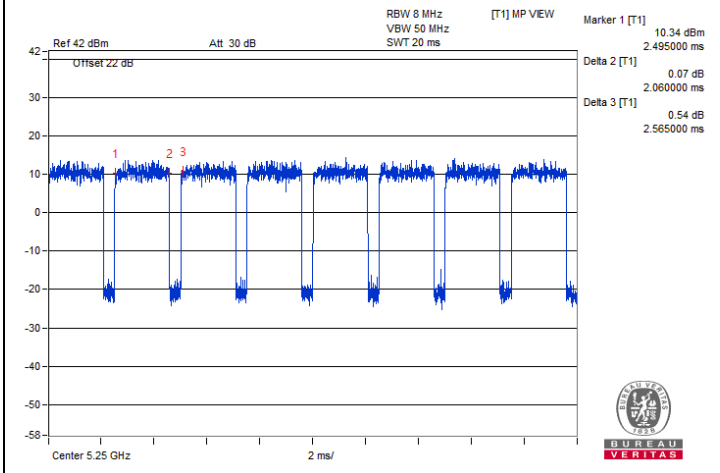
802.11ax (HE20) 1S1T



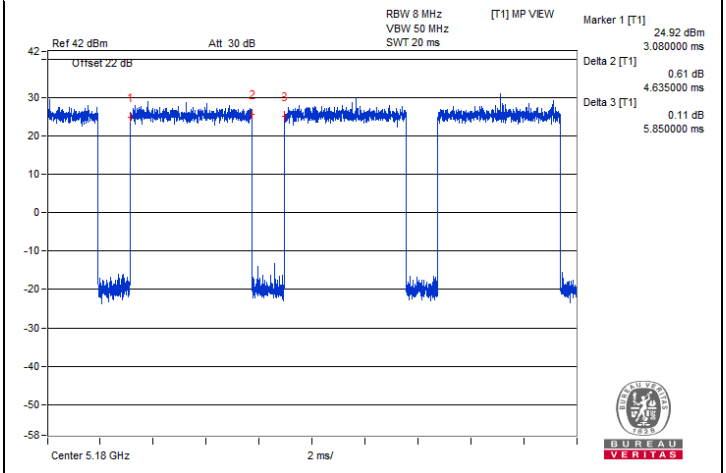
802.11ax (HE40) 1S1T



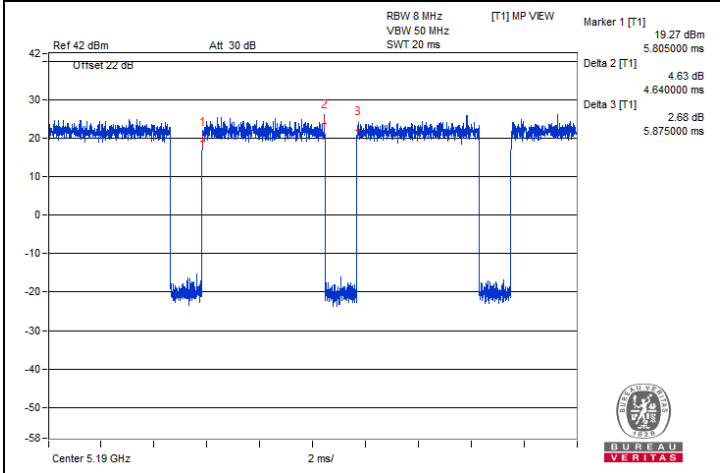
802.11ax (HE80) 1S1T



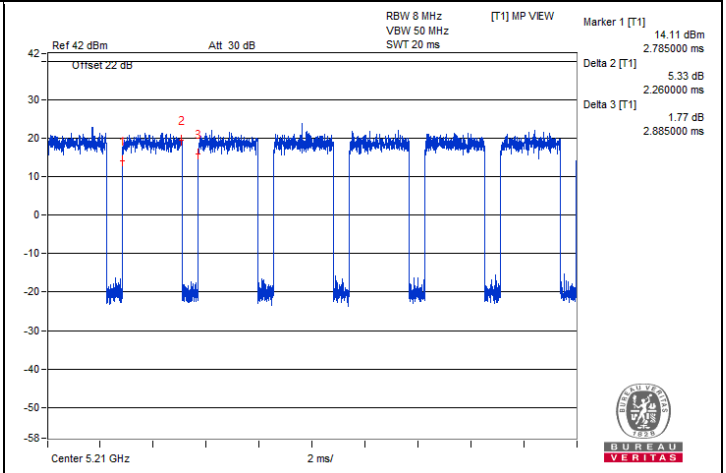
802.11ax (HE160) 1S1T



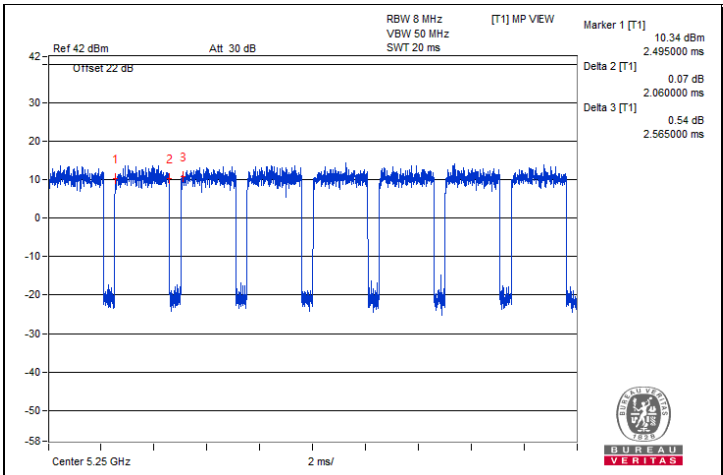
802.11be (EHT20) 1S1T



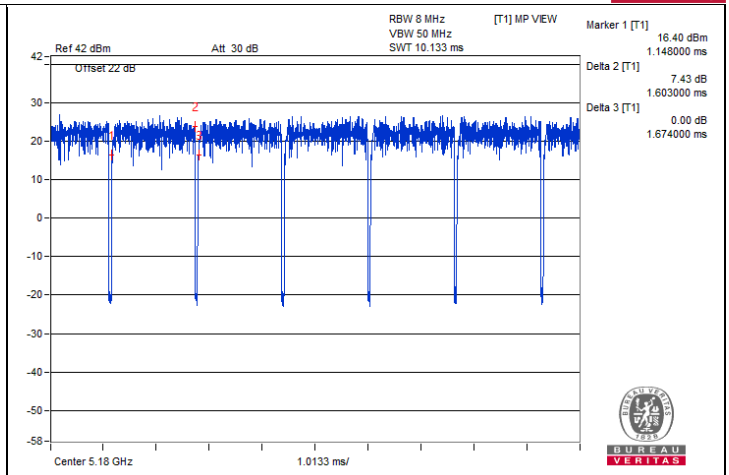
802.11be (EHT40) 1S1T



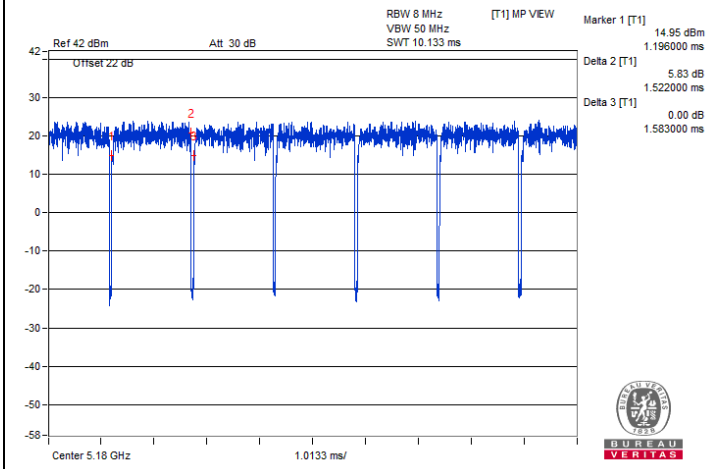
802.11be (EHT80) 1S1T



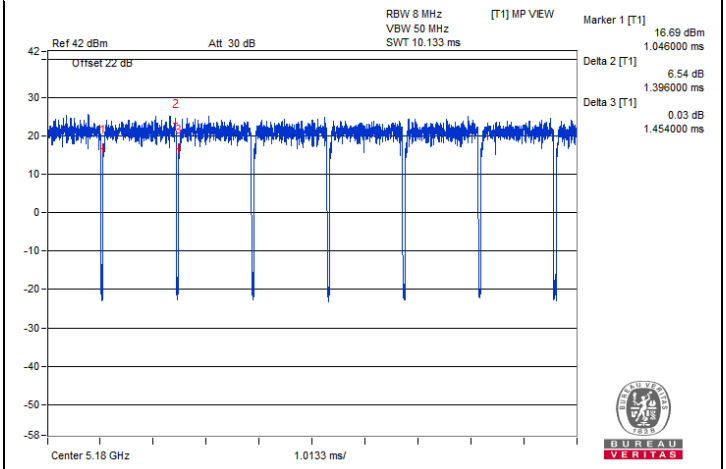
802.11be (EHT160) 1S1T



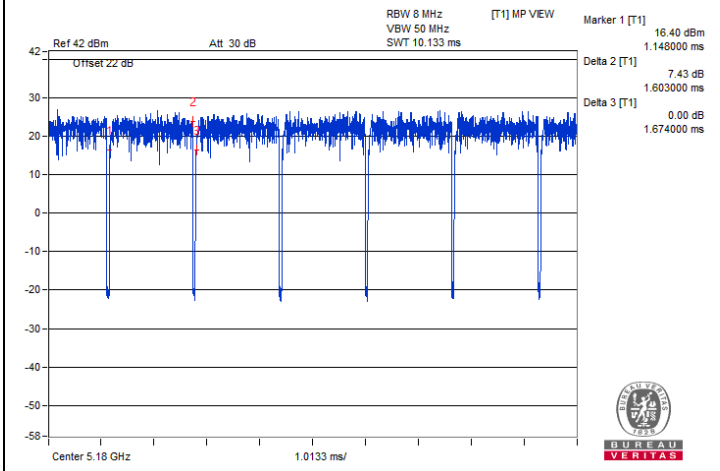
802.11ax (HE20) 26-tone RU 1S1T



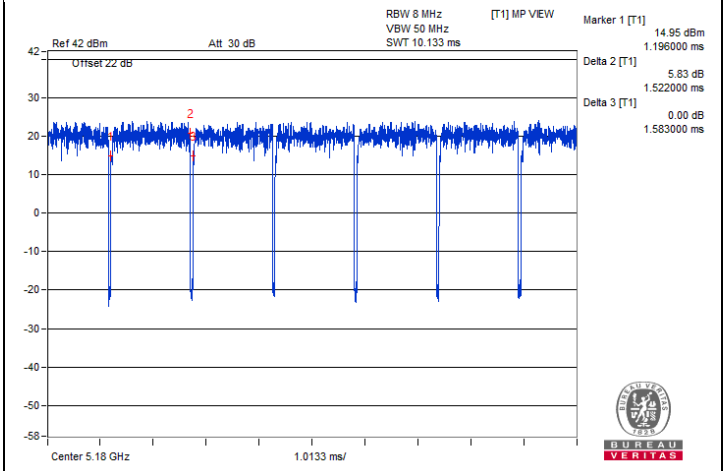
802.11ax (HE20) 52-tone RU 1S1T



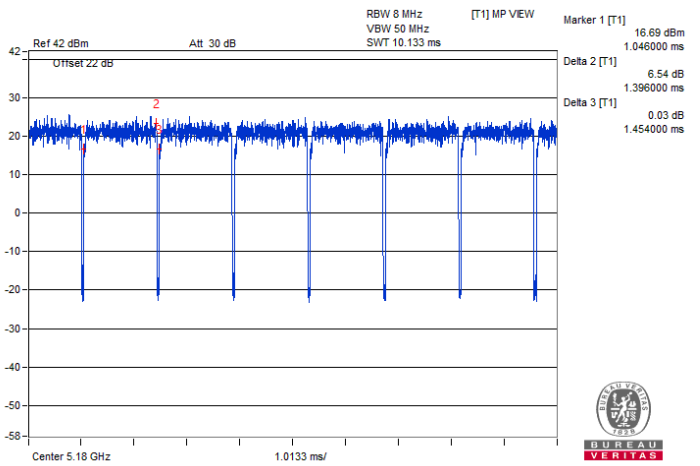
802.11ax (HE20) 106-tone RU 1S1T



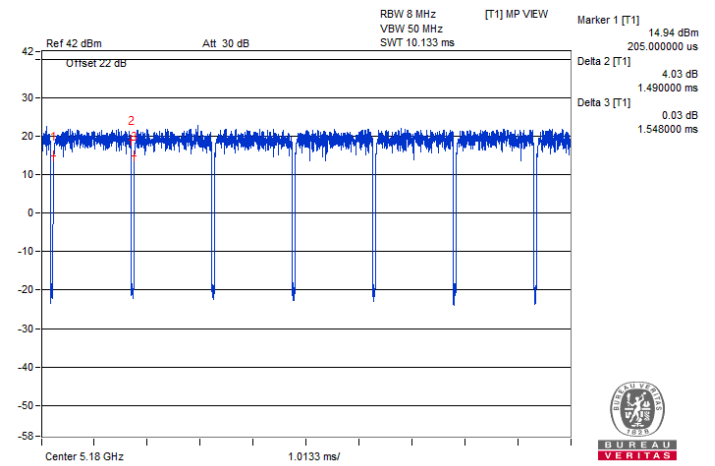
802.11be (EHT20) 26-tone RU 1S1T



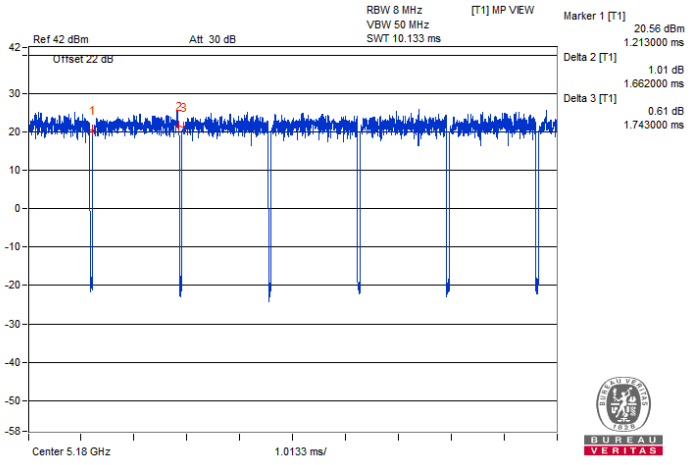
802.11be (EHT20) 52-tone RU 1S1T



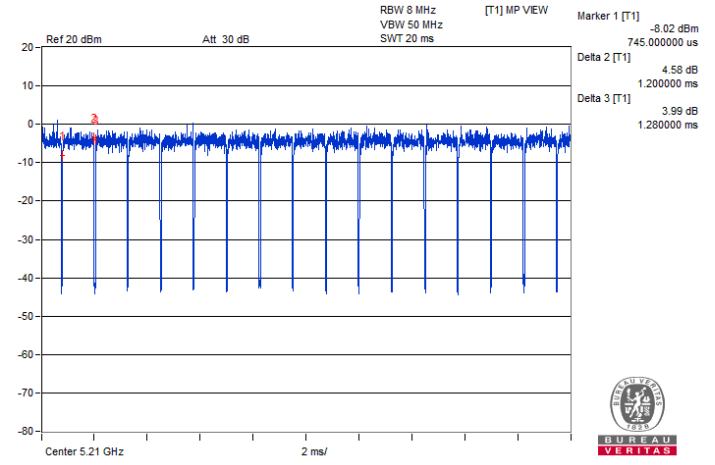
802.11be (EHT20) 106-tone RU 1S1T



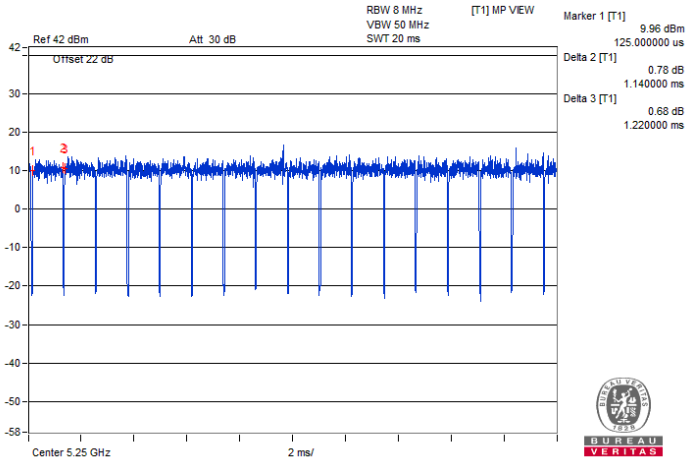
802.11be (EHT20) 52+26-tone MRU 1T



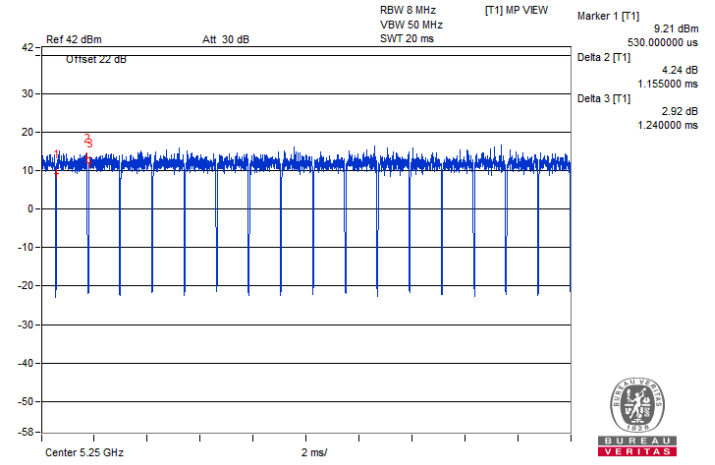
802.11be (EHT20) 106+26-tone MRU 1T



802.11be (EHT80) 484+242-tone MRU 1T

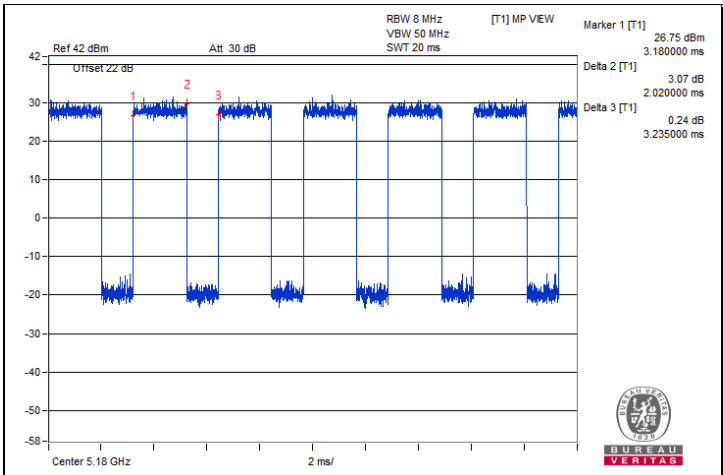


802.11be (EHT160) 996+484-tone MRU 1T

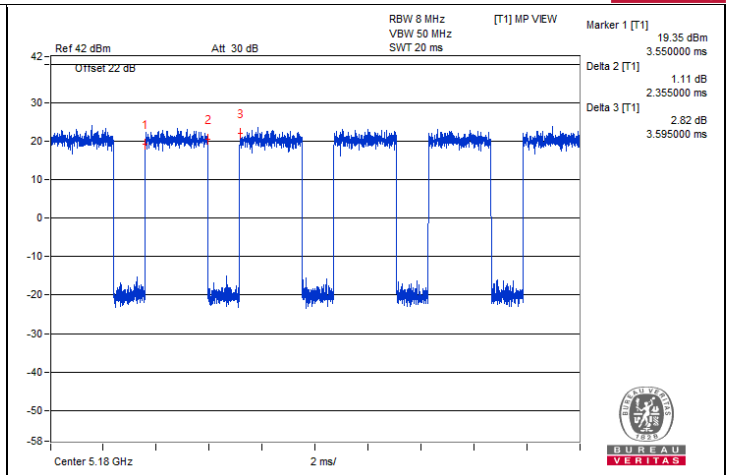


802.11be (EHT160) 996+484+242-tone MRU 1T

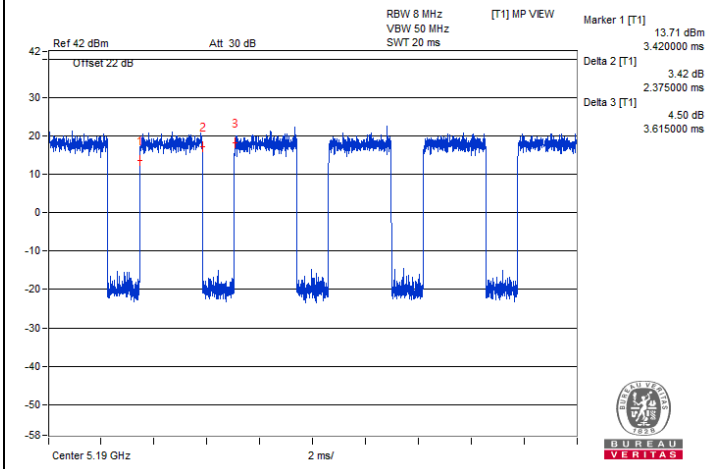
802.11a 2TX:
Duty cycle = 2.02 ms / 3.235 ms x 100% = 62.4%, duty factor = 10 * log (1/Duty cycle) = 2.05 dB
802.11ac (VHT20) 2S2T:
Duty cycle = 2.355 ms / 3.595 ms x 100% = 65.5%, duty factor = 10 * log (1/Duty cycle) = 1.84 dB
802.11ac (VHT40) 2S2T:
Duty cycle = 2.375 ms / 3.615 ms x 100% = 65.7%, duty factor = 10 * log (1/Duty cycle) = 1.82 dB
802.11ac (VHT80) 2S2T:
Duty cycle = 1.185 ms / 1.795 ms x 100% = 66.0%, duty factor = 10 * log (1/Duty cycle) = 1.80 dB
802.11ac (VHT160) 2S2T:
Duty cycle = 1.08 ms / 1.545 ms x 100% = 69.9%, duty factor = 10 * log (1/Duty cycle) = 1.56 dB
802.11ax (HE20) 2S2T:
Duty cycle = 2.355 ms / 3.595 ms x 100% = 65.5%, duty factor = 10 * log (1/Duty cycle) = 1.84 dB
802.11ax (HE40) 2S2T:
Duty cycle = 2.375 ms / 3.615 ms x 100% = 65.7%, duty factor = 10 * log (1/Duty cycle) = 1.82 dB
802.11ax (HE80) 2S2T:
Duty cycle = 1.185 ms / 1.795 ms x 100% = 66.0%, duty factor = 10 * log (1/Duty cycle) = 1.80 dB
802.11ax (HE160) 2S2T:
Duty cycle = 1.08 ms / 1.545 ms x 100% = 69.9%, duty factor = 10 * log (1/Duty cycle) = 1.56 dB
802.11be (EHT20) 2S2T:
Duty cycle = 2.355 ms / 3.595 ms x 100% = 65.5%, duty factor = 10 * log (1/Duty cycle) = 1.84 dB
802.11be (EHT40) 2S2T:
Duty cycle = 2.375 ms / 3.615 ms x 100% = 65.7%, duty factor = 10 * log (1/Duty cycle) = 1.82 dB
802.11be (EHT80) 2S2T:
Duty cycle = 1.185 ms / 1.795 ms x 100% = 66.0%, duty factor = 10 * log (1/Duty cycle) = 1.80 dB
802.11be (EHT160) 2S2T:
Duty cycle = 1.08 ms / 1.545 ms x 100% = 69.9%, duty factor = 10 * log (1/Duty cycle) = 1.56 dB
802.11ax (HE20) 26-tone RU 2S2T:
Duty cycle = 0.855 ms / 0.941 ms x 100% = 90.9%, duty factor = 10 * log (1/Duty cycle) = 0.42 dB
802.11ax (HE20) 52-tone RU 2S2T:
Duty cycle = 0.814 ms / 0.885 ms x 100% = 92.0%, duty factor = 10 * log (1/Duty cycle) = 0.36 dB
802.11ax (HE20) 106-tone RU 2S2T:
Duty cycle = 0.748 ms / 0.805 ms x 100% = 92.9%, duty factor = 10 * log (1/Duty cycle) = 0.32 dB
802.11be (EHT20) 26-tone RU 2S2T:
Duty cycle = 0.855 ms / 0.941 ms x 100% = 90.9%, duty factor = 10 * log (1/Duty cycle) = 0.42 dB
802.11be (EHT20) 52-tone RU 2S2T:
Duty cycle = 0.814 ms / 0.885 ms x 100% = 92.0%, duty factor = 10 * log (1/Duty cycle) = 0.36 dB
802.11be (EHT20) 106-tone RU 2S2T:
Duty cycle = 0.748 ms / 0.805 ms x 100% = 92.9%, duty factor = 10 * log (1/Duty cycle) = 0.32 dB
802.11be (EHT20) 52+26-tone MRU 2S2T:
Duty cycle = 0.8 ms / 0.854 ms x 100% = 93.7%, duty factor = 10 * log (1/Duty cycle) = 0.28 dB
802.11be (EHT20) 106+26-tone MRU 2S2T:
Duty cycle = 0.88 ms / 0.936 ms x 100% = 94.0%, duty factor = 10 * log (1/Duty cycle) = 0.27 dB
802.11be (EHT80) 484+242-tone MRU 2S2T:
Duty cycle = 0.649 ms / 0.703 ms x 100% = 92.3%, duty factor = 10 * log (1/Duty cycle) = 0.35 dB
802.11be (EHT160) 996+484-tone MRU 2S2T:
Duty cycle = 0.631 ms / 0.685 ms x 100% = 92.1%, duty factor = 10 * log (1/Duty cycle) = 0.36 dB
802.11be (EHT160) 996+484+242-tone MRU 2S2T:
Duty cycle = 0.634 ms / 0.697 ms x 100% = 91.0%, duty factor = 10 * log (1/Duty cycle) = 0.41 dB



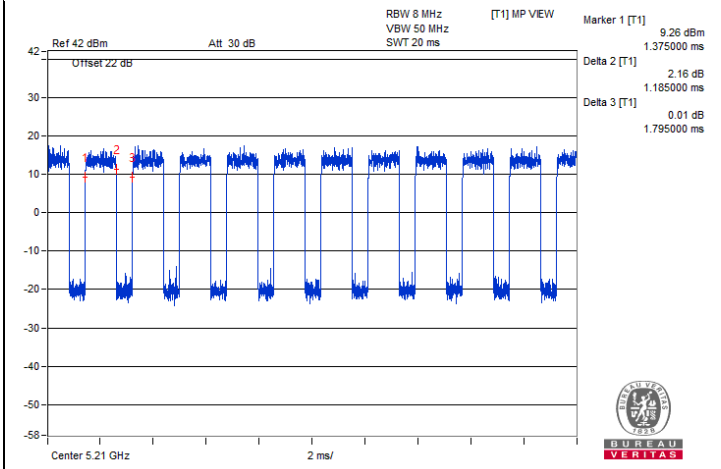
802.11a 2T



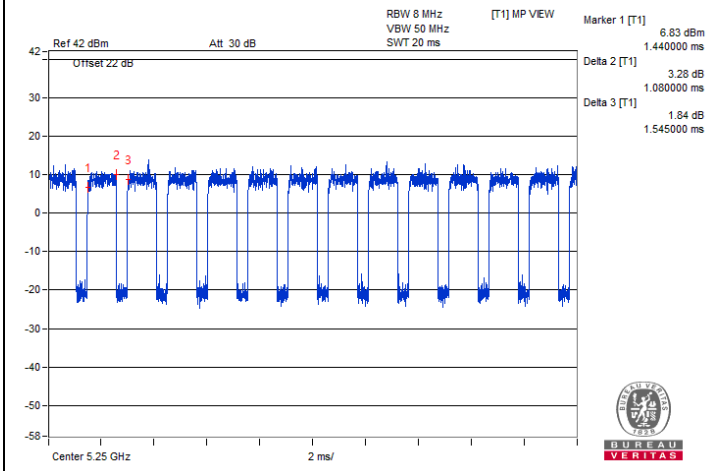
802.11ac (VHT20) 2S2T



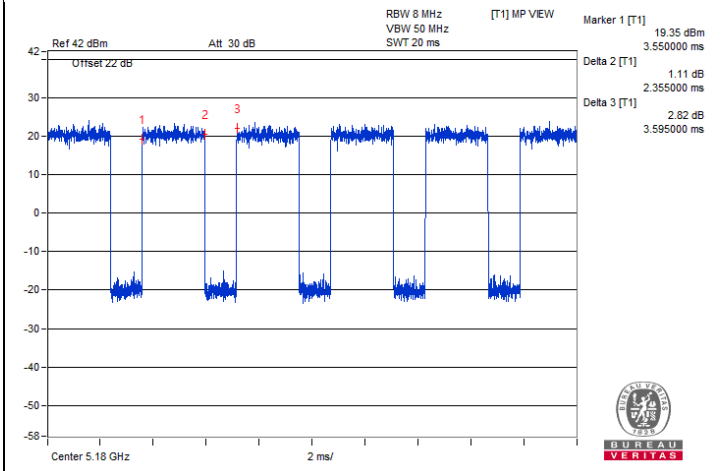
802.11ac (VHT40) 2S2T



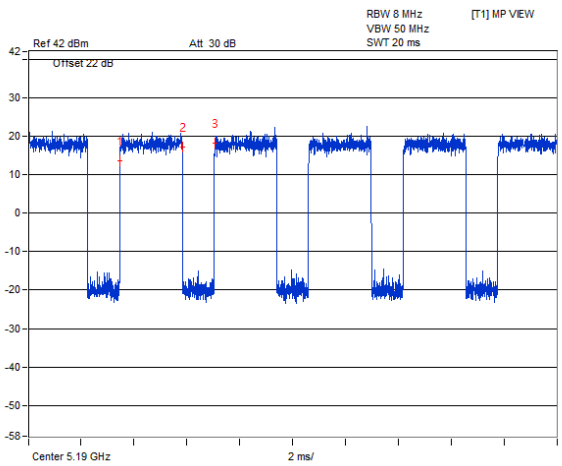
802.11ac (VHT80) 2S2T



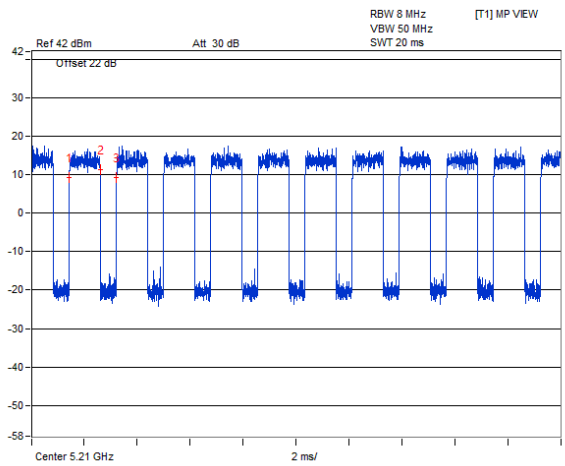
802.11ac (VHT160) 2S2T



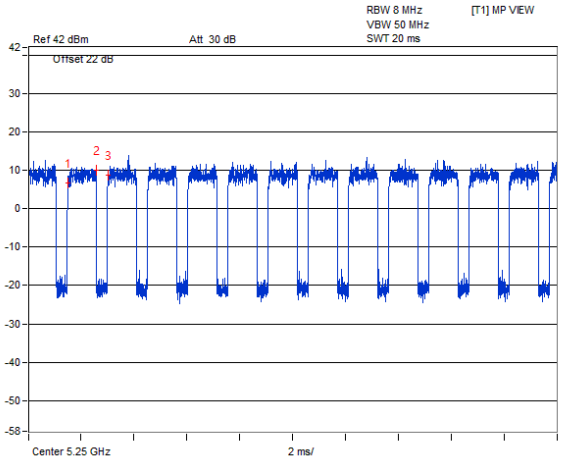
802.11ax (HE20) 2S2T



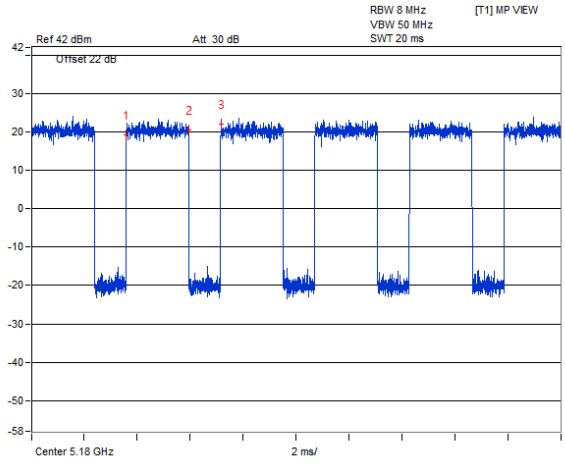
802.11ax (HE40) 2S2T



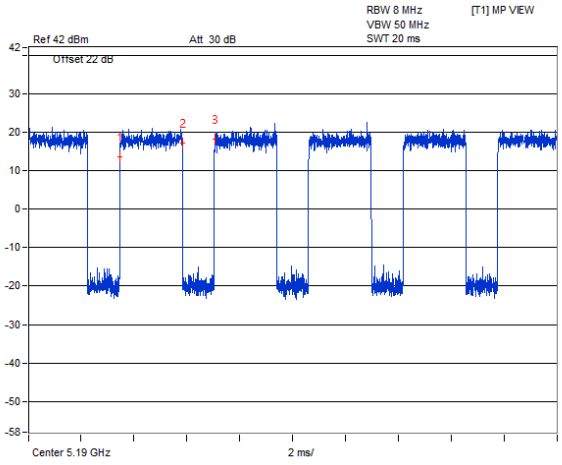
802.11ax (HE80) 2S2T



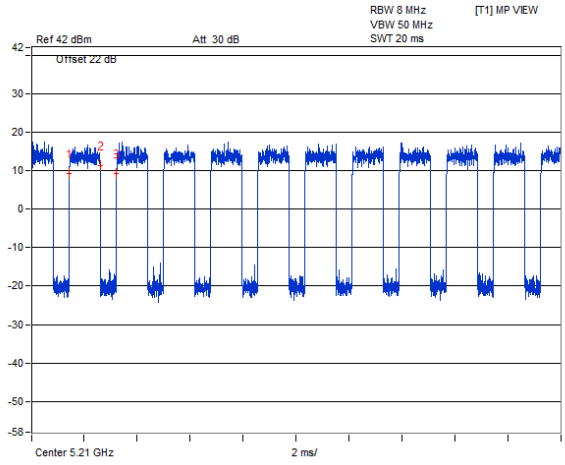
802.11ax (HE160) 2S2T



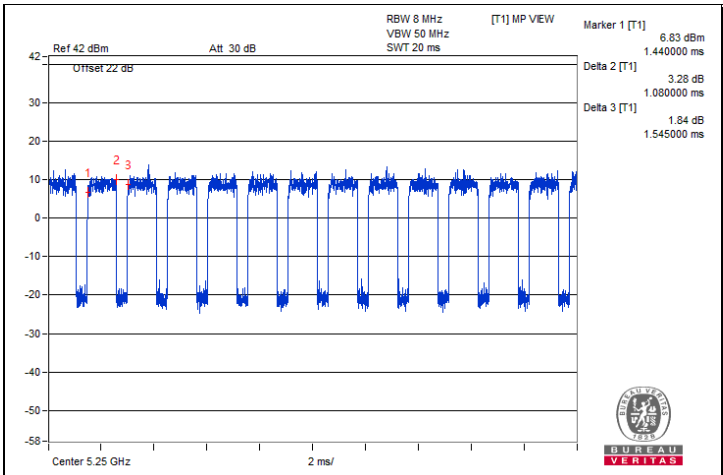
802.11be (EHT20) 2S2T



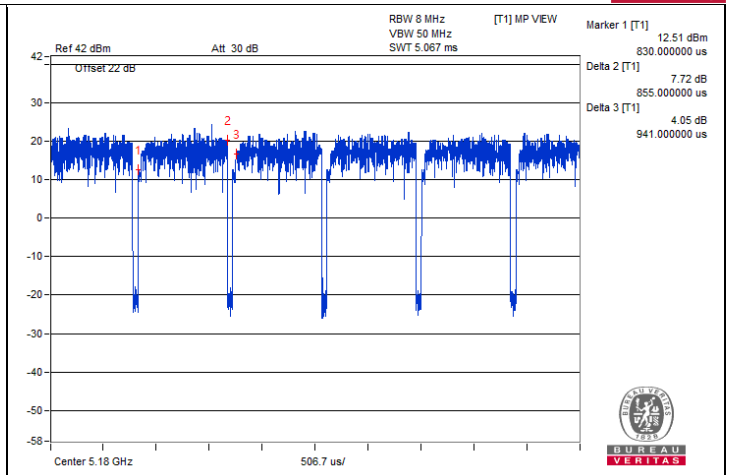
802.11be (EHT40) 2S2T



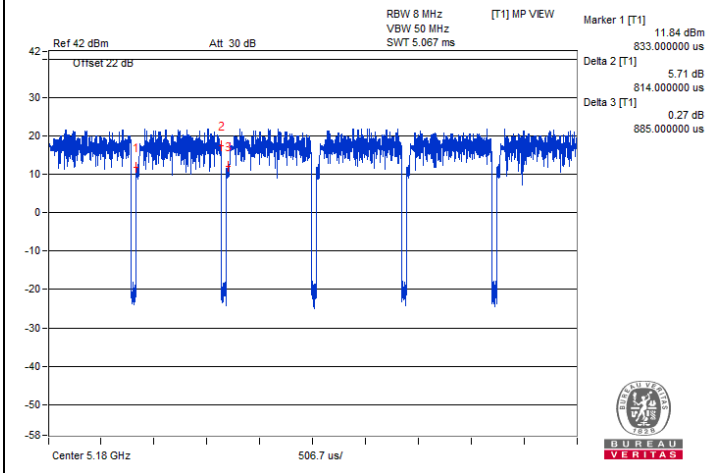
802.11be (EHT80) 2S2T



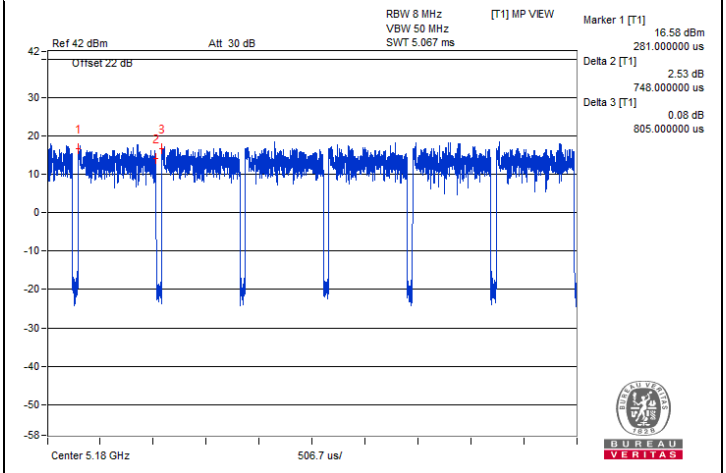
802.11be (EHT160) 2S2T



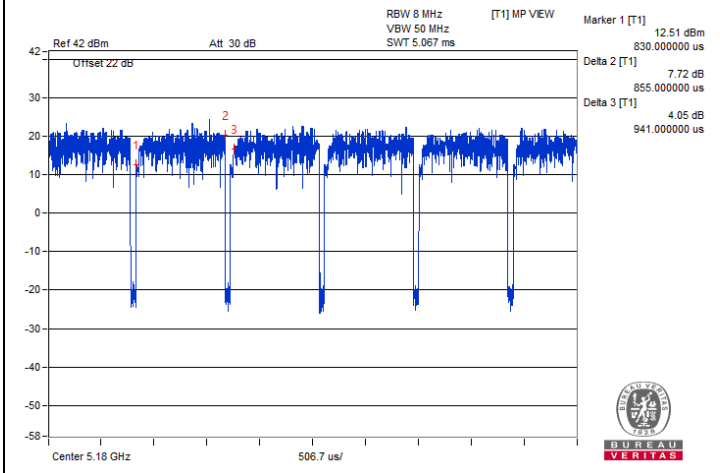
802.11ax (HE20) 26-tone RU 2S2T



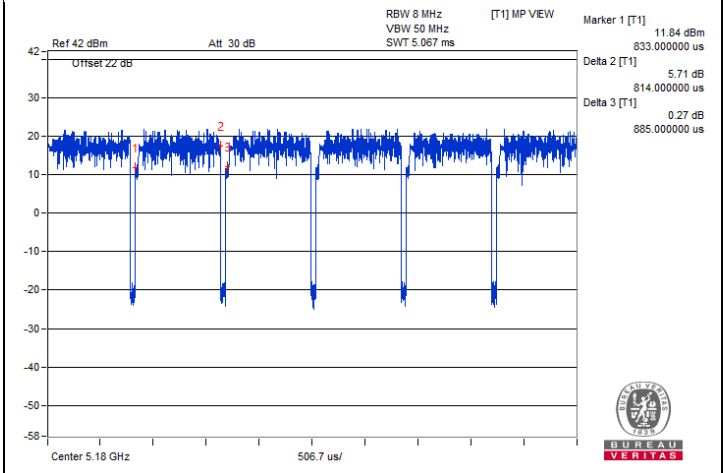
802.11ax (HE20) 52-tone RU 2S2T



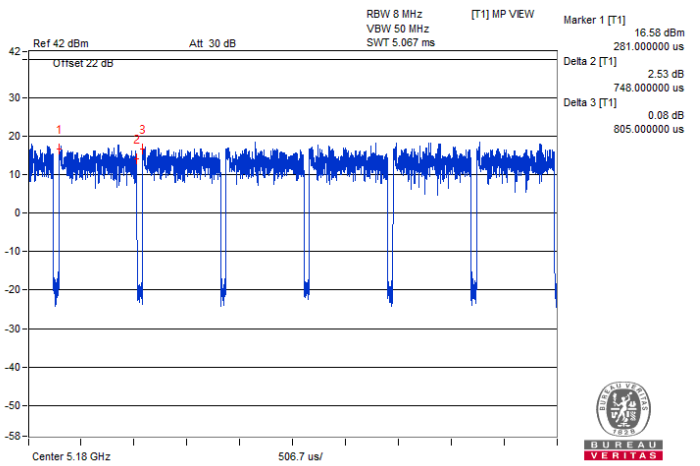
802.11ax (HE20) 106-tone RU 2S2T



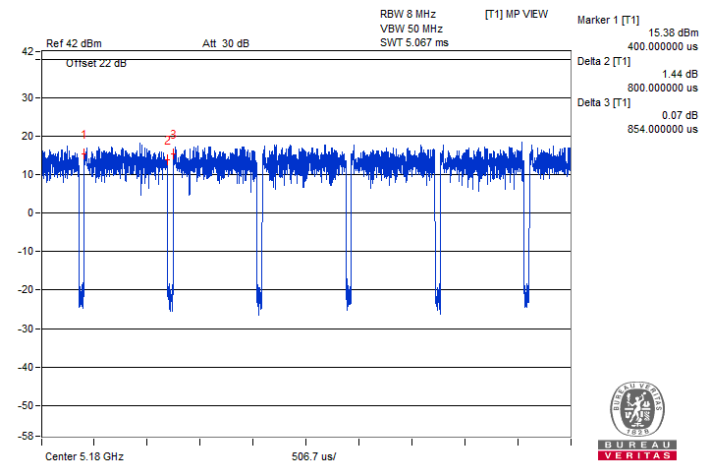
802.11be (EHT20) 26-tone RU 2S2T



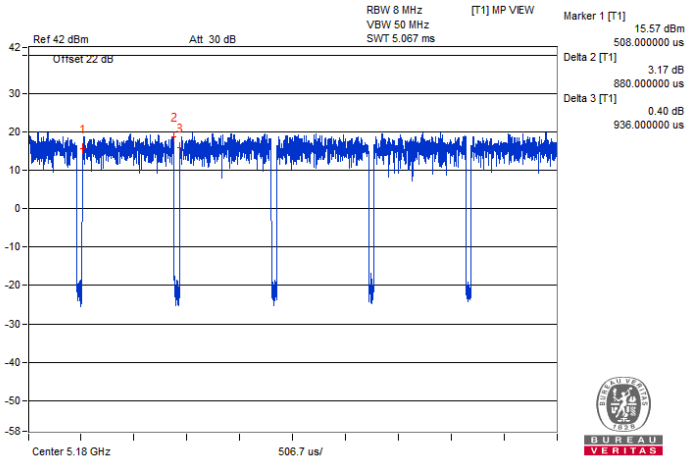
802.11be (EHT20) 52-tone RU 2S2T



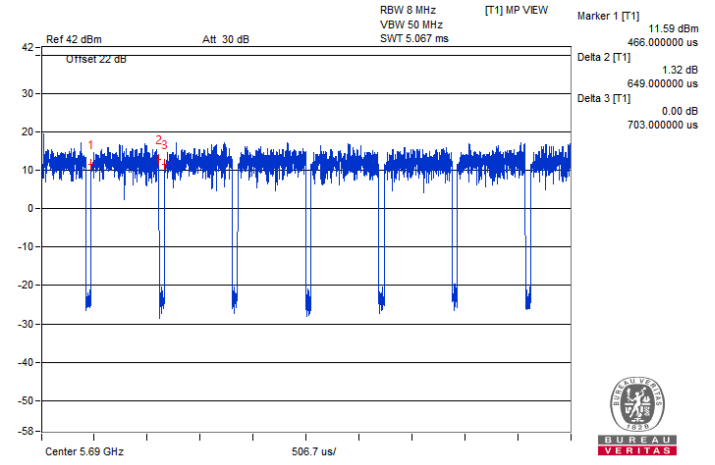
802.11be (EHT20) 106-tone RU 2S2T



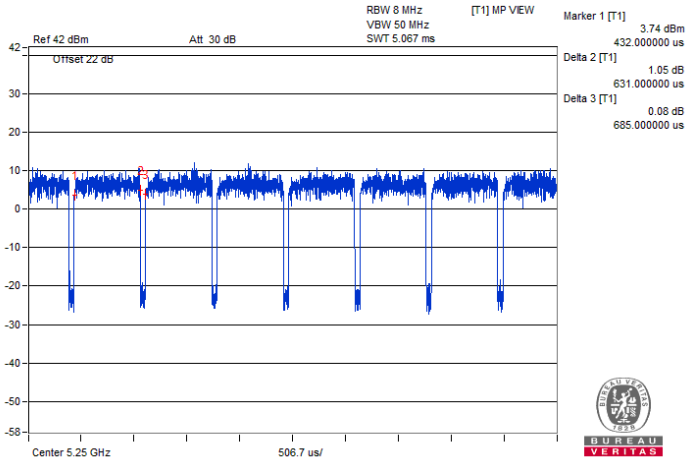
802.11be (EHT20) 52+26-tone MRU 2T



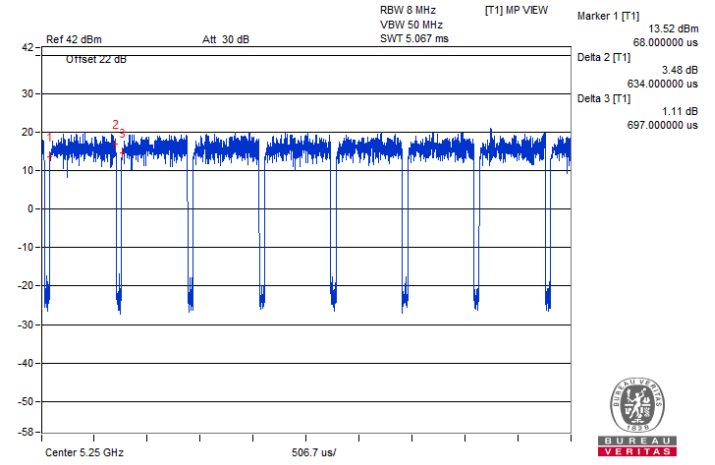
802.11be (EHT20) 106+26-tone MRU 2T



802.11be (EHT80) 484+242-tone MRU 2T



802.11be (EHT160) 996+484-tone MRU 2T



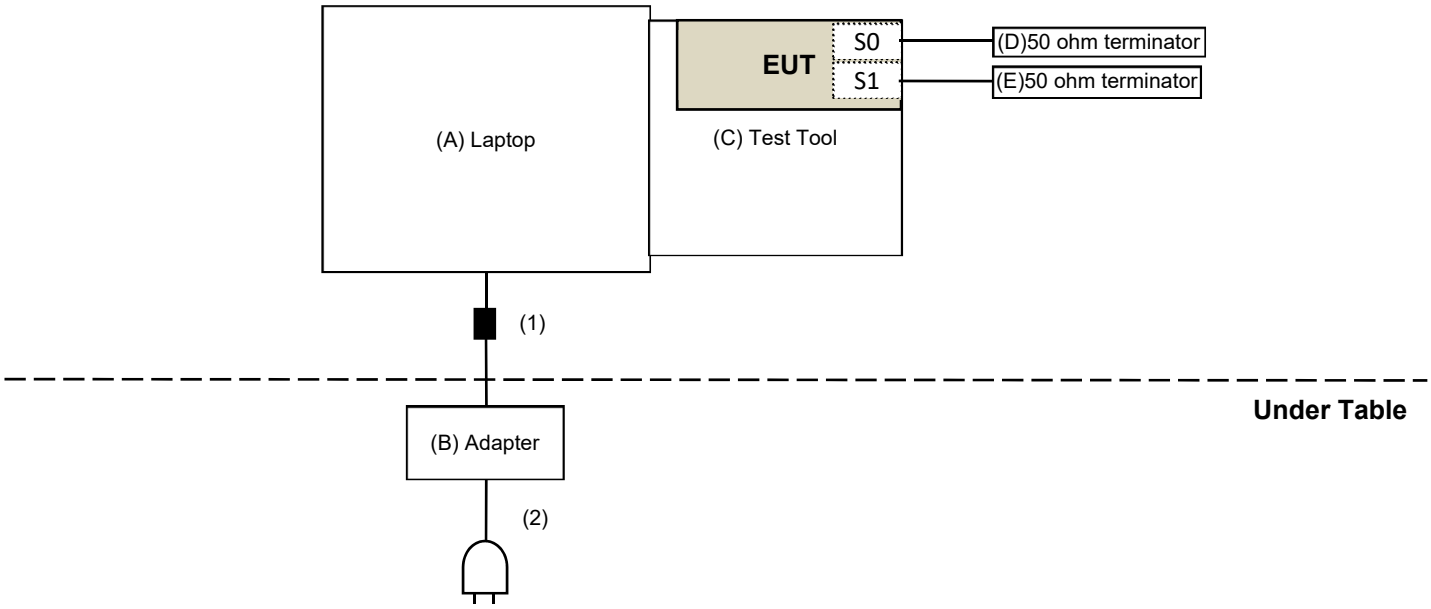
802.11be (EHT160) 996+484+242-tone MRU 2T

3.6 Test Program Used and Operation Descriptions

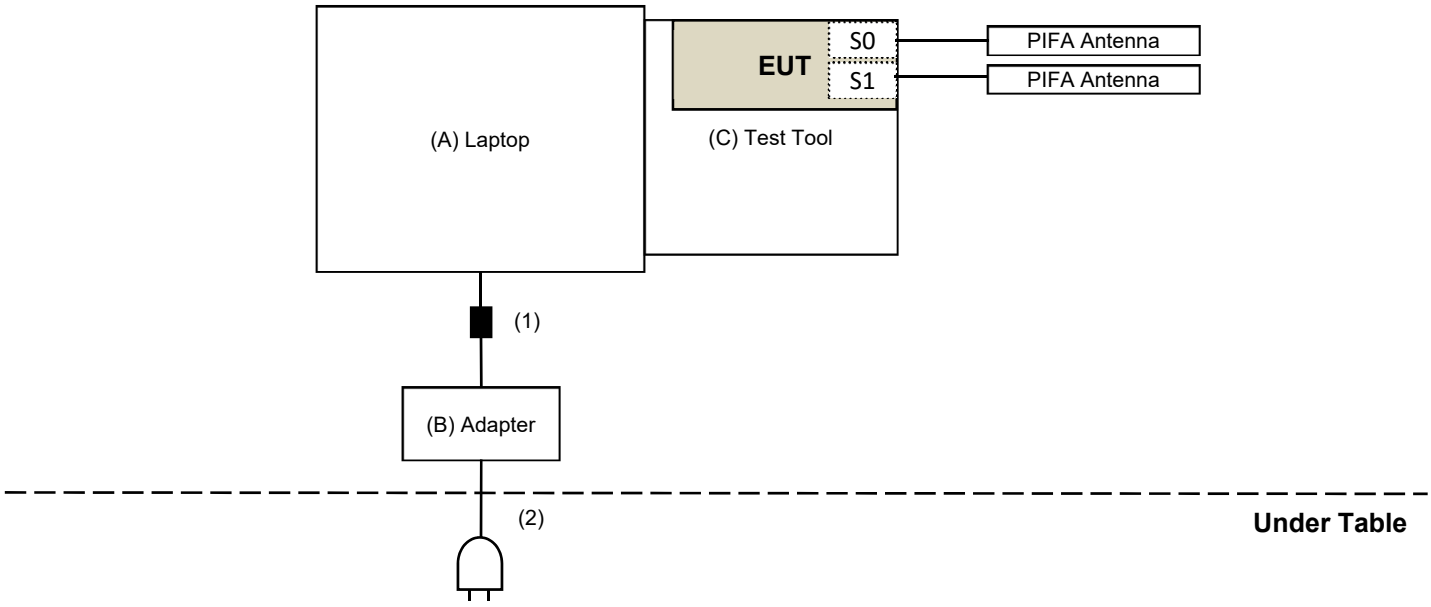
Controlling software (QAtool_V16 (0.0.2.104)) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emission test:



For AC Power Conducted Emission test:



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	L440	R90FM90G	N/A	Provided by Lab
B	Adapter	Lenovo	ADLX45DLC3A	N/A	N/A	Provided by Lab
C	Test Tool	Mediatek	MTK1849	N/A	N/A	Supplied by applicant
D	50 Ohm terminator	WOKEN	WTER-18S2	N/A	N/A	Provided by Lab
E	50 Ohm terminator	WOKEN	WTER-18S2	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	1	Provided by Lab
2	AC Cable	1	1	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030A	MY55410176	2024/6/12	2025/6/11
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/12/20 ~ 2025/3/14

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Pulse Power Sensor Anritsu	MA2411B	1726434	2024/6/7	2025/6/6
PXA Signal Analyzer Keysight	N9030A	MY55410176	2024/6/12	2025/6/11
RF Power Meter Anritsu	ML2495A	1529002	2024/6/7	2025/6/6
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/12/20 ~ 2025/3/14

4.3 Power Spectral Density

Refer to section 4.1 to get the tested date and information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.6 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance Telegartner	50 ohm	3	2024/11/1	2025/10/31
EMI Test Receiver R&S	ESCS 30	100375	2024/5/20	2025/5/19
Fixed Attenuator STI	STI02-2200-10	005	2024/2/19	2025/2/18
LISN R&S	ESH3-Z5	835239/001	2024/4/3	2025/4/2
		848773/004	2024/10/7	2025/10/6
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2024/2/19	2025/2/18
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2024/12/19

4.7 Unwanted Emissions below 1 GHz

Mode A

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030A	MY55410176	2024/6/12	2025/6/11
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/3/18

Mode B

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-406	2024/10/8	2025/10/7
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2024/2/17	2025/2/16
Loop Antenna TESEQ	HLA 6121	63620	2024/10/17	2025/10/16
MXE EMI Receiver Agilent	N9038A	MY51210202	2024/7/29	2025/7/28
Preamplifier EMCI	EMC330N	980701	2024/2/17	2025/2/16
	EMC001340	980142	2024/2/19	2025/2/18
RF Coaxial Cable mTJ	100100-CFD400LW-200	CFD400-200	2024/2/17	2025/2/16
	100100-CFD400LW-400	CFD400-400	2024/2/17	2025/2/16
	100100-CFD400LW-800	CFD400-800	2024/2/17	2025/2/16
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2024/12/19

4.8 Unwanted Emissions above 1 GHz

Mode A

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030A	MY55410176	2024/6/12	2025/6/11
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/12/13 ~ 2025/3/28

Mode B

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-406	2024/11/10	2025/11/9
	BBHA 9170	9170-739	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY50010156	2024/6/5	2025/6/4
Preamplifier EMCI	EMC12630SE	980384	2025/1/14	2026/1/13
	EMC184045SE	980387	2024/8/8	2025/8/7
PXA Signal Analyzer Keysight	N9030B	MY57141948	2024/5/20	2025/5/19
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2025/1/24	2026/1/23
	EMC102-KM-KM-4000	200214	2025/1/24	2026/1/23
	EMC104-SM-SM-1500	180504	2025/1/18	2026/1/17
	EMC104-SM-SM-2000	180601	2025/1/18	2026/1/17
	EMC104-SM-SM-6000	210201	2025/1/18	2026/1/17
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2025/3/21 ~ 2025/3/26

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Point	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Mobile and Portable client device	250mW (24 dBm)

Operation Band	Limit
U-NII-2A	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

5.3 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Point	
	Indoor Access Point	
	Mobile and Portable client device	11 dBm/MHz

Operation Band	Limit
U-NII-2A	11 dBm/MHz
U-NII-2C	11 dBm/MHz
U-NII-3	30 dBm/500 kHz

5.4 6 dB Bandwidth

Within the 5.725-5.850 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.5 Occupied Bandwidth

The results are for reference only.

5.6 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.7 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.8 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedure New Rules v02r01	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)

For transmitters operating in the 5.15-5.25 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m) *
* Conducted Unwanted Emission Convert Formula: Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8, d = measurement distance in 3 meters. Emission Level (dBuV/m) = -27 – 20log(3) + 104.8 = 68.26		

For transmitters operating in the 5.25-5.35 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m) *
* Conducted Unwanted Emission Convert Formula: Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8, d = measurement distance in 3 meters. Emission Level (dBuV/m) = -27 – 20log(3) + 104.8 = 68.26		

For transmitters operating in the 5.47-5.725 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m) *
* Conducted Unwanted Emission Convert Formula: Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8, d = measurement distance in 3 meters. Emission Level (dBuV/m) = -27 – 20log(3) + 104.8 = 68.26		

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2 (dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8 (dBμV/m) *3 PK: 122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

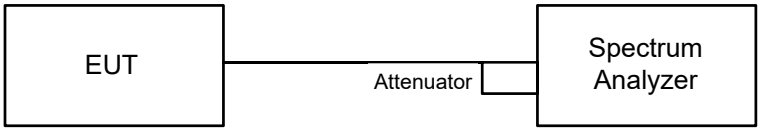
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts).

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup



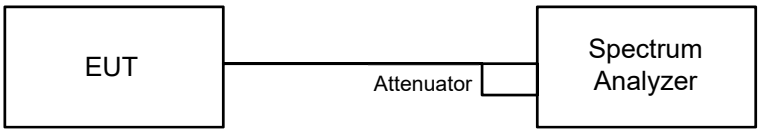
6.1.2 Test Procedure

a. Set RBW = approximately 1% of the emission bandwidth.
b. Set the VBW > RBW.
c. Detector = Peak.
d. Trace mode = max hold.
e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6.2 RF Output Power

6.2.1 Test Setup

For channel straddling:



6.2.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

For channel straddling:

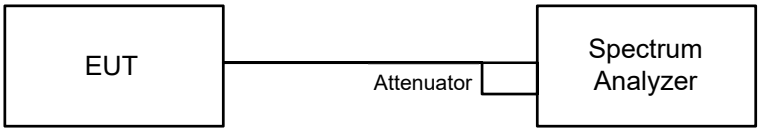
Method SA-2

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)Sweep time = auto, trigger set to “free run”.
d. Trace average at least 100 traces in power averaging mode.
e. Record the max value and add 10 log (1/duty cycle).

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:
Method SA-2

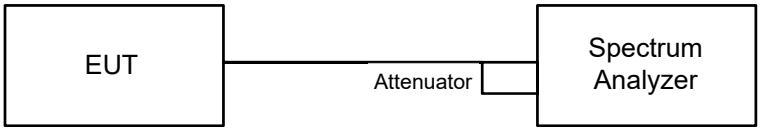
a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
d. Sweep time = auto, trigger set to “free run”.
e. Trace average at least 100 traces in power averaging mode.
f. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
g. Record the max value and add 10 log (1/duty cycle).

For specified measurement bandwidth 500 kHz:
Method SA-2

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
c. Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500 kHz/300 kHz)
d. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
e. Sweep time = auto, trigger set to “free run”.
f. Trace average at least 100 traces in power averaging mode.
g. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
h. Record the max value and add 10 log (1/duty cycle).

6.4 6 dB Bandwidth

6.4.1 Test Setup

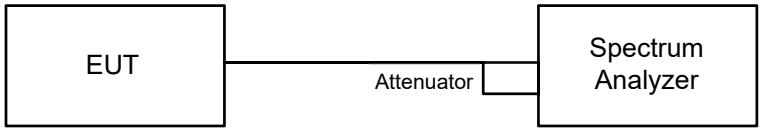


6.4.2 Test Procedure

a. Set resolution bandwidth (RBW) = 100 kHz.
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.5 Occupied Bandwidth

6.5.1 Test Setup

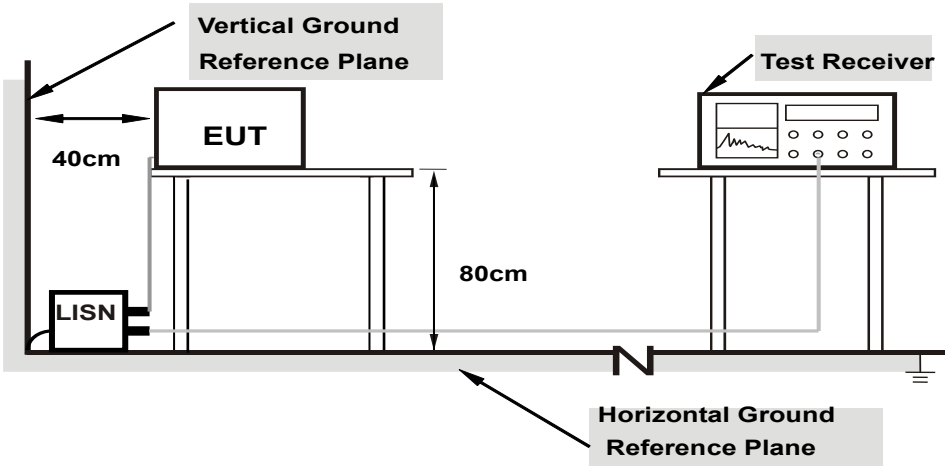


6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

6.6 AC Power Conducted Emissions

6.6.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.6.2 Test Procedure

a. The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

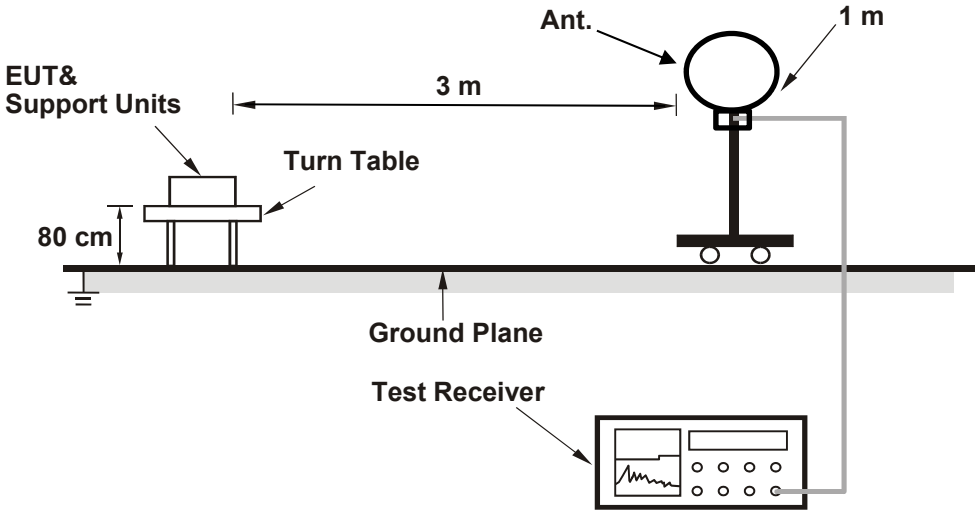
Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

6.7 Unwanted Emissions below 1 GHz

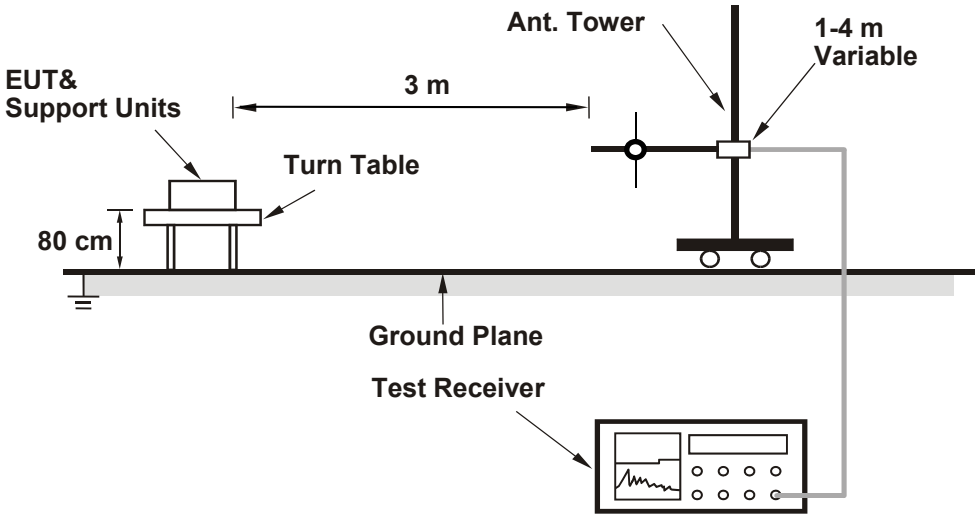
6.7.1 Test Setup

For Radiated Configuration:

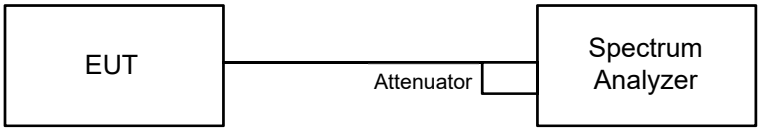
For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For Conducted Configuration:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

Radiated versus Conducted Measurement.
The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.
The following steps was performed:

a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
e. For all of Radiation emission test

For Radiated emission below 30 MHz

e-1.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

e-1.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

e-1.3. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

e-1.4. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e-1.5. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

e-2.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

e-2.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

e-2.3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e-2.4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e-2.5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

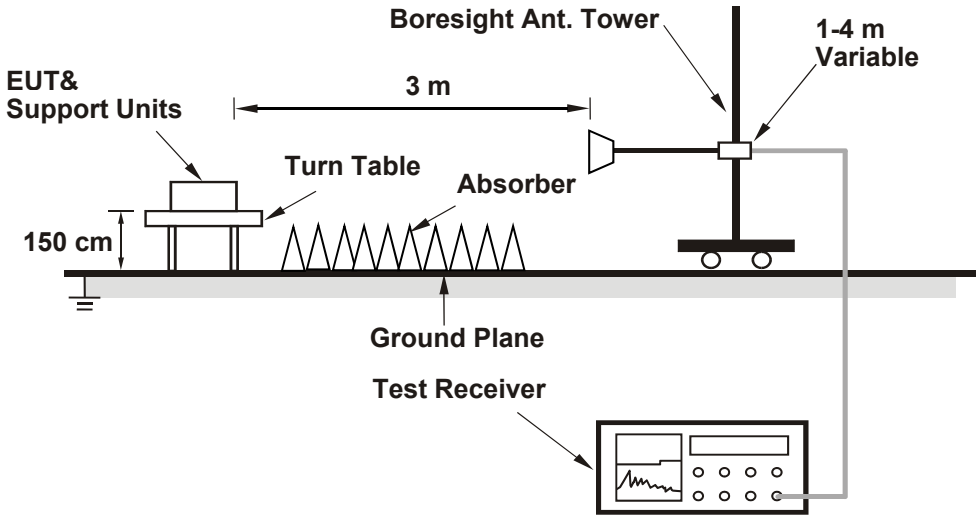
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

Radiated versus Conducted Measurement
For Radiated measurement: The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation). For Conducted measurement: The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).
Conducted Unwanted Emission Convert Formula
a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8 d = measurement distance in 3 meters. b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB) c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal. For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands. For the band edge the gain for the specific band may have been used. Notes: 1. In restricted bands below 1000 MHz, add upper bound on ground plane reflection: For frequencies between 30 MHz and 1000 MHz, add 4.7 dB. 2. The conducted emission test was considered some factor to compute test result.

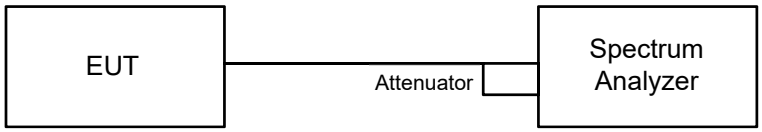
6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup

For Radiated Configuration:



For Conducted Configuration:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.8.2 Test Procedure

Radiated versus Conducted Measurement.
The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.
The following steps was performed:

a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.

b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.

c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.

d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)

e. For all of Radiation emission test

   e-1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

   e-2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

e-3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e-4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e-5. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10 Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1 GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

Radiated versus Conducted Measurement
For Radiated measurement: The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation). For Conducted measurement: The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions). For Verified radiated measurement: The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).
Conducted Unwanted Emission Convert Formula
a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8 d = measurement distance in 3 meters. b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB). c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal. For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands. For the band edge the gain for the specific band may have been used. Note: The conducted emission test was considered some factor to compute test result.

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	3.3 Vdc	Environmental Conditions:	20°C, 60% RH	Tested By:	Henry Hsu

802.11a 1TX

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	18.22
60	5300	18.46
64	5320	19.26
100	5500	23.16
116	5580	18.09
140	5700	18.36
144 (U-NII-2C)	5720	13.97
144 (U-NII-3)	5720	4.08

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	18.22	23.6	<	24
60	5300	18.46	23.66	<	24
64	5320	19.26	23.84	<	24
100	5500	23.16	24.64	>	24
116	5580	18.09	23.57	<	24
140	5700	18.36	23.63	<	24
144 (U-NII-2C)	5720	13.97	22.45	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) 1S1T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	19.9
60	5300	24.25
64	5320	19.81
100	5500	20.02
116	5580	19.81
140	5700	21.05
144 (U-NII-2C)	5720	14.93
144 (U-NII-3)	5720	4.97

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	19.90	23.98	<	24
60	5300	24.25	24.84	>	24
64	5320	19.81	23.96	<	24
100	5500	20.02	24.01	>	24
116	5580	19.81	23.96	<	24
140	5700	21.05	24.23	>	24
144 (U-NII-2C)	5720	14.93	22.74	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT40) 1S1T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
54	5270	44.76
62	5310	39.55
102	5510	39.46
110	5550	40.3
134	5670	39.58
142 (U-NII-2C)	5710	34.9
142 (U-NII-3)	5710	4.87

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	44.76	27.5	>	24
62	5310	39.55	26.97	>	24
102	5510	39.46	26.96	>	24
110	5550	40.30	27.05	>	24
134	5670	39.58	26.97	>	24
142 (U-NII-2C)	5710	34.90	26.42	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT80) 1S1T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
58	5290	91.09
106	5530	104.62
122	5610	80.17
138 (U-NII-2C)	5690	74.92
138 (U-NII-3)	5690	5

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	91.09	30.59	>	24
106	5530	104.62	31.19	>	24
122	5610	80.17	30.04	>	24
138 (U-NII-2C)	5690	74.92	29.74	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT160) 1S1T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
50 (U-NII-1)	5250	81.8
50 (U-NII-2A)	5250	81.87
114	5570	165.22

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
50 (U-NII-2A)	5250	81.87	30.13	>	24
114	5570	165.22	33.18	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) 26-tone RU 1S1T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
64	5320	19.64
100	5500	19.54
140	5700	19.48
144 (U-NII-2C)	5720	14.09
144 (U-NII-3)	5720	5.36

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
64	5320	19.64	23.93	<	24
100	5500	19.54	23.9	<	24
140	5700	19.48	23.89	<	24
144 (U-NII-2C)	5720	14.09	22.48	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) 52-tone RU 1S1T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
64	5320	19.49
100	5500	19.72
140	5700	19.48
144 (U-NII-2C)	5720	14.24
144 (U-NII-3)	5720	5.38

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
64	5320	19.49	23.89	<	24
100	5500	19.72	23.94	<	24
140	5700	19.48	23.89	<	24
144 (U-NII-2C)	5720	14.24	22.53	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) 106-tone RU 1S1T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
64	5320	22.41
100	5500	20.83
140	5700	20.77
144 (U-NII-2C)	5720	14.52
144 (U-NII-3)	5720	5.37

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
64	5320	22.41	24.5	>	24
100	5500	20.83	24.18	>	24
140	5700	20.77	24.17	>	24
144 (U-NII-2C)	5720	14.52	22.61	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) 52+26-tone MRU 1S1T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
64	5320	18.59
100	5500	18.83
140	5700	19.02
144 (U-NII-2C)	5720	14.16
144 (U-NII-3)	5720	4.63

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
64	5320	18.59	23.69	<	24
100	5500	18.83	23.74	<	24
140	5700	19.02	23.79	<	24
144 (U-NII-2C)	5720	14.16	22.51	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) 106+26-tone MRU 1S1T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
64	5320	19.82
100	5500	20.27
140	5700	19.61
144 (U-NII-2C)	5720	14.27
144 (U-NII-3)	5720	5.25

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
64	5320	19.82	23.97	<	24
100	5500	20.27	24.06	>	24
140	5700	19.61	23.92	<	24
144 (U-NII-2C)	5720	14.27	22.54	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT80) 484+242-tone MRU 1S1T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
58	5290	80.26
106	5530	80.25
138 (U-NII-2C)	5690	75.32
138 (U-NII-3)	5690	5.17

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	80.26	30.04	>	24
106	5530	80.25	30.04	>	24
138 (U-NII-2C)	5690	75.32	29.76	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT160) 996+484-tone MRU 1S1T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
50 (U-NII-1)	5250	80.77
50 (U-NII-2A)	5250	62.94
114	5570	151.28

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
50 (U-NII-2A)	5250	62.94	28.98	>	24
114	5570	151.28	32.79	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

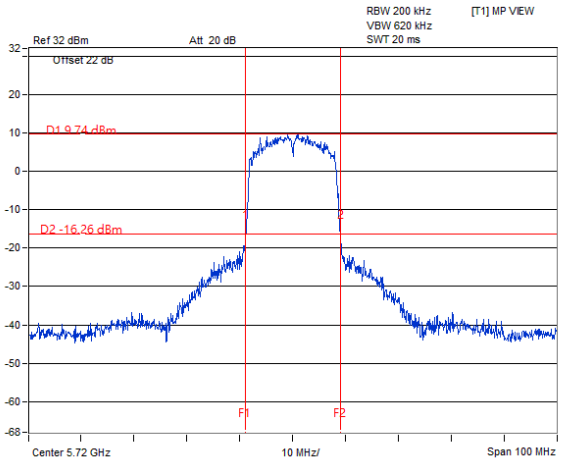
802.11be (EHT160) 996+484+242-tone MRU 1S1T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
50 (U-NII-1)	5250	81.11
50 (U-NII-2A)	5250	79.48
114	5570	160.93

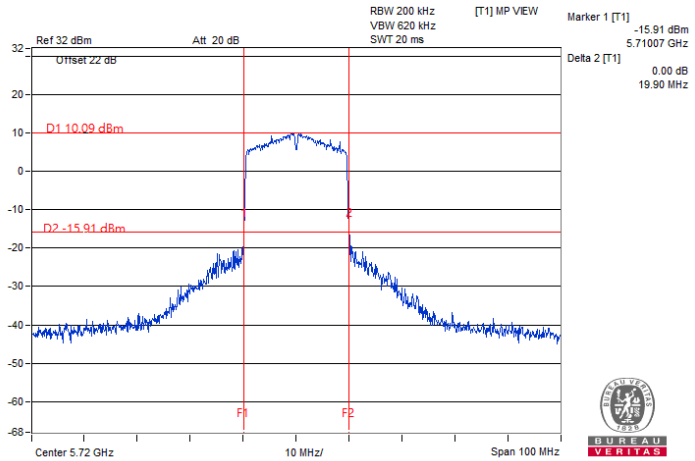
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
50 (U-NII-2A)	5250	79.48	30	>	24
114	5570	160.93	33.06	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

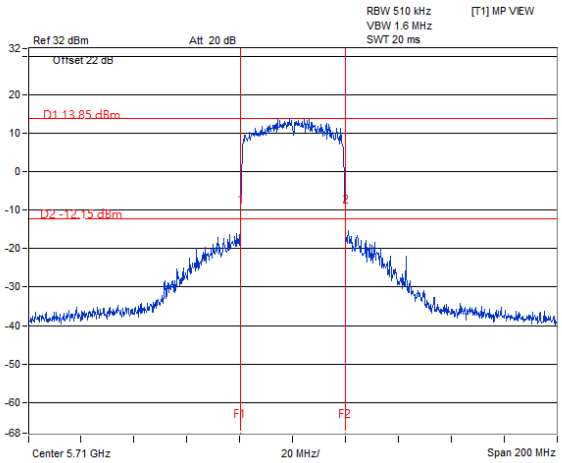
Spectrum Plot of Minimum Value



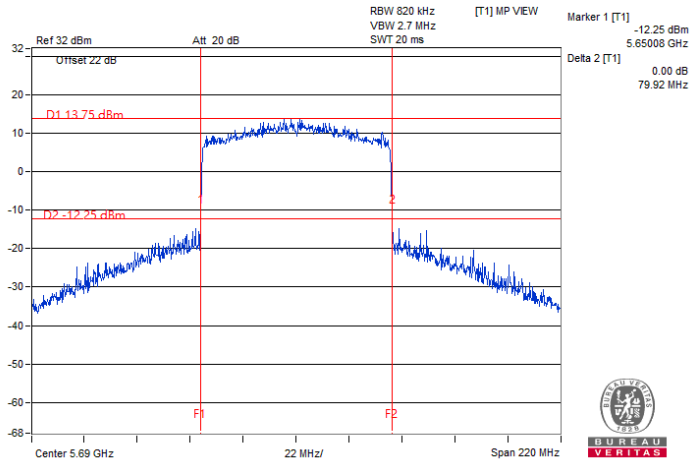
802.11a 1TX : CH 144 (U-NII-3)



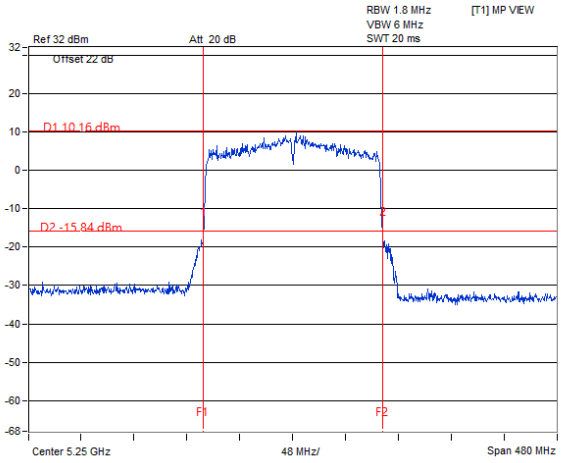
802.11be (EHT20) 1S1T : CH 144 (U-NII-3)



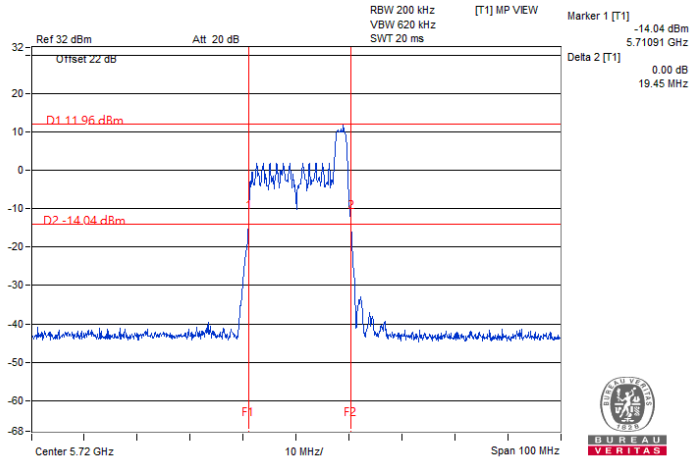
802.11be (EHT40) 1S1T : CH 142 (U-NII-3)



802.11be (EHT80) 1S1T : CH 138 (U-NII-3)

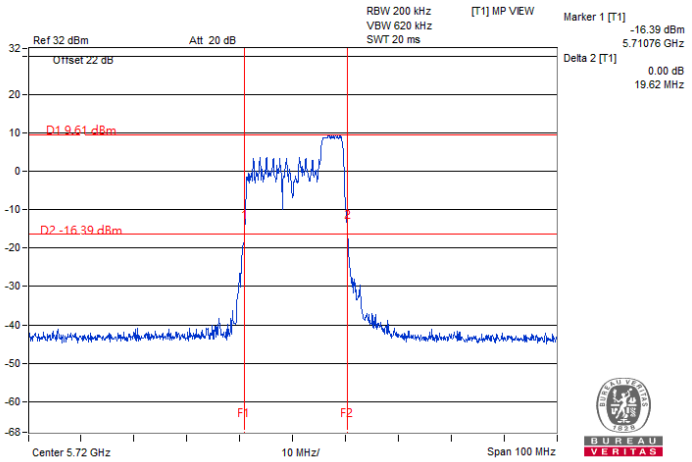


802.11be (EHT160) 1S1T : CH 50 (U-NII-1)

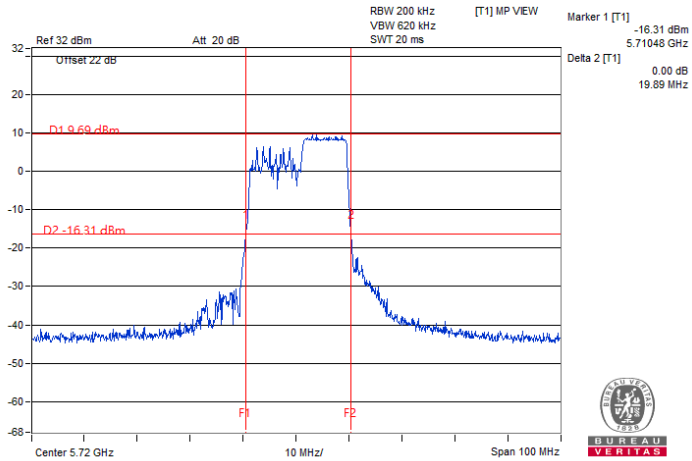


802.11be (EHT20) 26-tone RU 1S1T : CH 144 (U-NII-3)

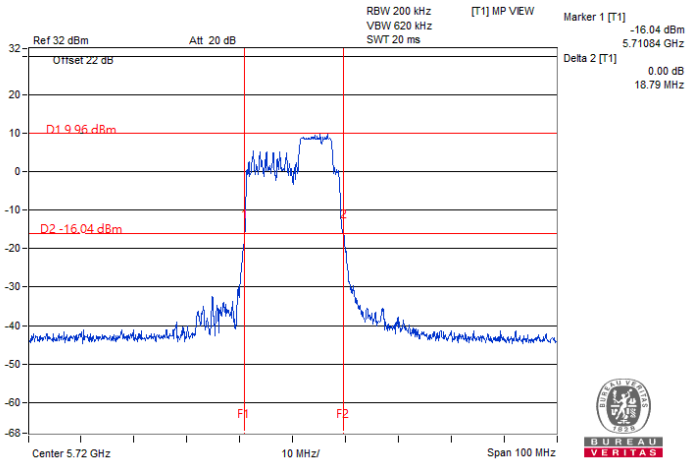
Spectrum Plot of Minimum Value



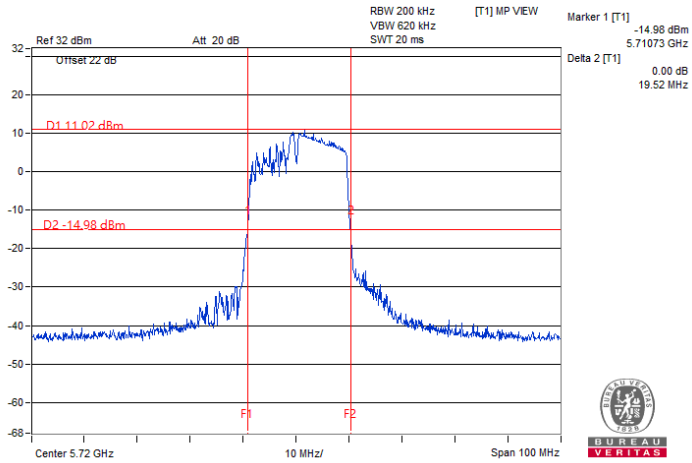
802.11be (EHT20) 52-tone RU 1S1T : CH 144 (U-NII-3)



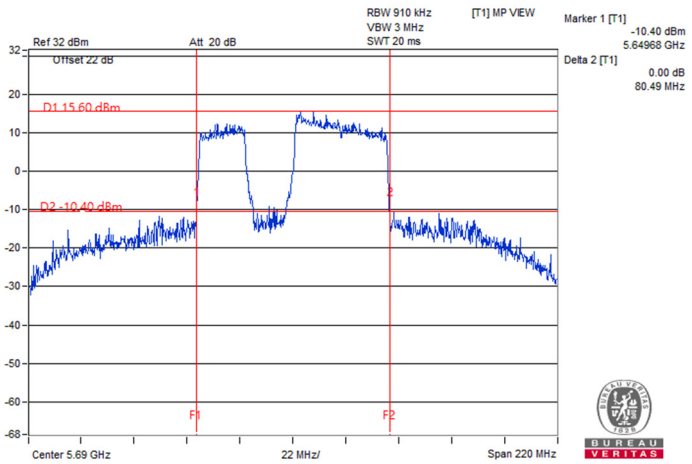
802.11be (EHT20) 106-tone RU 1S1T : CH 144 (U-NII-3)



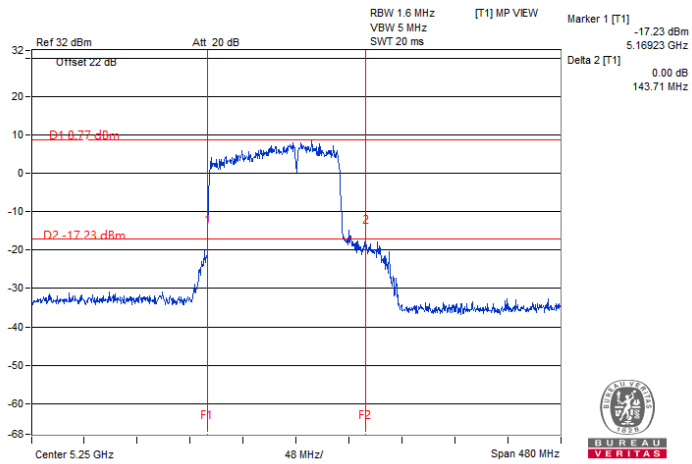
802.11be (EHT20) 52+26-tone MRU 1S1T : CH 144 (U-NII-3)



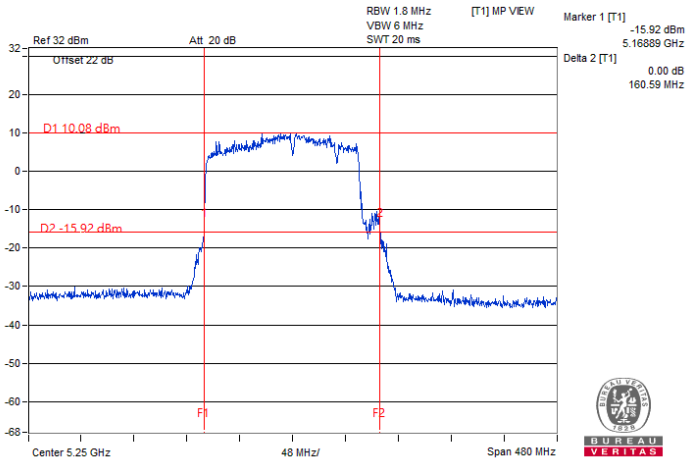
802.11be (EHT20) 106+26-tone MRU 1S1T : CH 144 (U-NII-3)



802.11be (EHT80) 484+242-tone MRU 1S1T : CH 138 (U-NII-3)



802.11be (EHT160) 996+484-tone MRU 1S1T : CH 50 (U-NII-2A)

Spectrum Plot of Minimum Value	
 802.11be (EHT160) 996+484+242-tone MRU 1S1T : CH 50 (U-NII-2A)	

Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

Input Power:	3.3 Vdc	Environmental Conditions:	20°C, 60% RH	Tested By:	Henry Hsu

802.11a 2TX

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	18.14	17.95
60	5300	20.15	19.73
64	5320	22.81	19.58
100	5500	18.60	20.74
116	5580	18.05	18.23
140	5700	19.56	20.36
144 (U-NII-2C)	5720	14.08	14.13
144 (U-NII-3)	5720	3.90	3.97

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	17.95	23.54	<	24
60	5300	19.73	23.95	<	24
64	5320	19.58	23.91	<	24
100	5500	18.60	23.69	<	24
116	5580	18.05	23.56	<	24
140	5700	19.56	23.91	<	24
144 (U-NII-2C)	5720	14.08	22.48	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) 2S2T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.80	19.71
60	5300	19.81	19.80
64	5320	19.77	20.10
100	5500	19.91	24.87
116	5580	19.74	19.74
140	5700	19.84	19.77
144 (U-NII-2C)	5720	14.94	14.87
144 (U-NII-3)	5720	4.92	4.91

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	19.71	23.94	<	24
60	5300	19.80	23.96	<	24
64	5320	19.77	23.96	<	24
100	5500	19.91	23.99	<	24
116	5580	19.74	23.95	<	24
140	5700	19.77	23.96	<	24
144 (U-NII-2C)	5720	14.87	22.72	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT40) 2S2T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	39.53	39.54
62	5310	44.33	39.63
102	5510	39.59	39.79
110	5550	39.52	39.57
134	5670	40.95	39.47
142 (U-NII-2C)	5710	34.80	34.75
142 (U-NII-3)	5710	4.84	4.68

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	39.53	26.96	>	24
62	5310	39.63	26.98	>	24
102	5510	39.59	26.97	>	24
110	5550	39.52	26.96	>	24
134	5670	39.47	26.96	>	24
142 (U-NII-2C)	5710	34.75	26.4	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT80) 2S2T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	99.37	94.21
106	5530	104.81	98.43
122	5610	79.90	79.91
138 (U-NII-2C)	5690	74.93	74.94
138 (U-NII-3)	5690	4.89	4.84

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	94.21	30.74	>	24
106	5530	98.43	30.93	>	24
122	5610	79.90	30.02	>	24
138 (U-NII-2C)	5690	74.93	29.74	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT160) 2S2T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	81.36	82.23
50 (U-NII-2A)	5250	83.95	83.54
114	5570	165.72	168.06

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
50 (U-NII-2A)	5250	83.54	30.21	>	24
114	5570	165.72	33.19	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) 26-tone RU 2S2T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
64	5320	19.39	19.33
100	5500	19.40	19.50
140	5700	19.36	19.29
144 (U-NII-2C)	5720	14.12	14.11
144 (U-NII-3)	5720	5.29	5.32

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
64	5320	19.33	23.86	<	24
100	5500	19.40	23.87	<	24
140	5700	19.29	23.85	<	24
144 (U-NII-2C)	5720	14.11	22.49	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) 52-tone RU 2S2T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
64	5320	19.82	19.38
100	5500	19.62	19.54
140	5700	19.74	19.35
144 (U-NII-2C)	5720	14.36	14.12
144 (U-NII-3)	5720	5.27	5.28

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
64	5320	19.38	23.87	<	24
100	5500	19.54	23.9	<	24
140	5700	19.35	23.86	<	24
144 (U-NII-2C)	5720	14.12	22.49	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) 106-tone RU 2S2T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
64	5320	21.34	19.84
100	5500	19.78	20.43
140	5700	20.09	19.56
144 (U-NII-2C)	5720	14.71	14.17
144 (U-NII-3)	5720	5.51	5.31

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
64	5320	19.84	23.97	<	24
100	5500	19.78	23.96	<	24
140	5700	19.56	23.91	<	24
144 (U-NII-2C)	5720	14.17	22.51	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) 52+26-tone MRU 2S2T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
64	5320	18.96	18.63
100	5500	18.59	18.83
140	5700	19.53	18.77
144 (U-NII-2C)	5720	14.43	14.32
144 (U-NII-3)	5720	4.52	4.31

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
64	5320	18.63	23.7	<	24
100	5500	18.59	23.69	<	24
140	5700	18.77	23.73	<	24
144 (U-NII-2C)	5720	14.32	22.55	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) 106+26-tone MRU 2S2T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
64	5320	19.38	19.28
100	5500	19.49	19.43
140	5700	19.73	19.25
144 (U-NII-2C)	5720	14.17	14.14
144 (U-NII-3)	5720	5.23	5.17

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
64	5320	19.28	23.85	<	24
100	5500	19.43	23.88	<	24
140	5700	19.25	23.84	<	24
144 (U-NII-2C)	5720	14.14	22.5	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT80) 484+242-tone MRU 2S2T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	103.86	96.39
106	5530	101.56	89.33
138 (U-NII-2C)	5690	75.03	75.12
138 (U-NII-3)	5690	5.06	5.08

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	96.39	30.84	>	24
106	5530	89.33	30.5	>	24
138 (U-NII-2C)	5690	75.03	29.75	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT160) 996+484-tone MRU 2S2T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	80.65	80.68
50 (U-NII-2A)	5250	48.93	58.09
114	5570	140.95	140.20

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
50 (U-NII-2A)	5250	48.93	27.89	>	24
114	5570	140.20	32.46	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

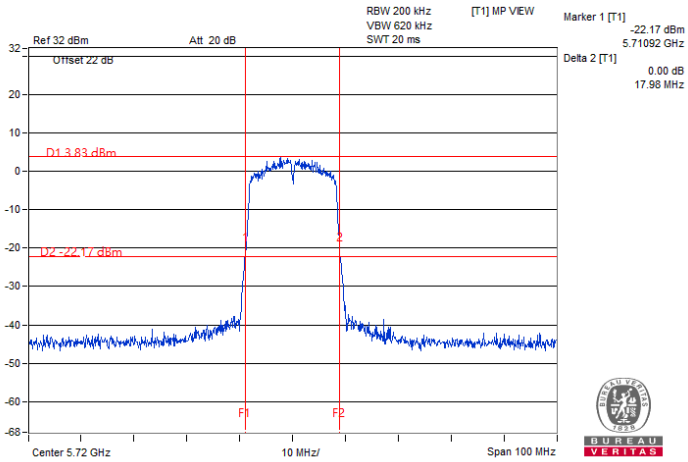
802.11be (EHT160) 996+484+242-tone MRU 2S2T

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	80.98	80.55
50 (U-NII-2A)	5250	78.17	78.50
114	5570	162.55	160.34

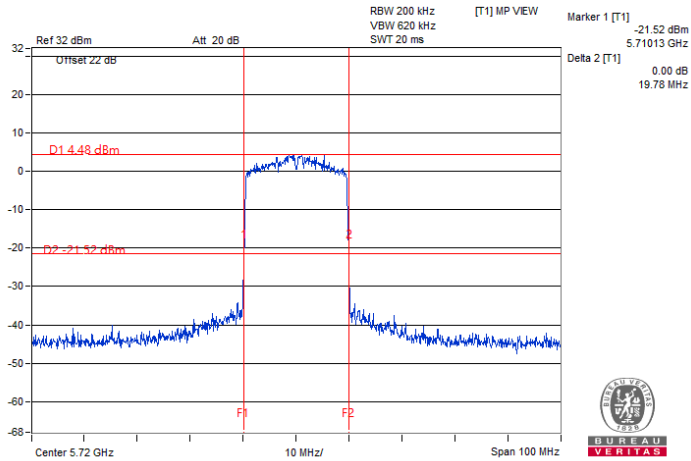
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
50 (U-NII-2A)	5250	78.17	29.93	>	24
114	5570	160.34	33.05	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

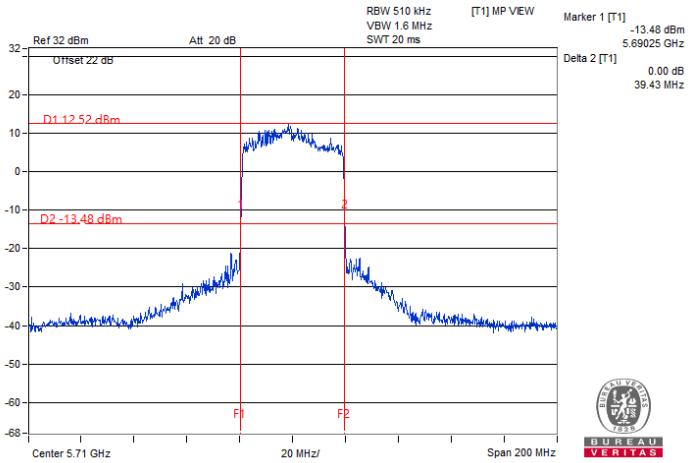
Spectrum Plot of Minimum Value



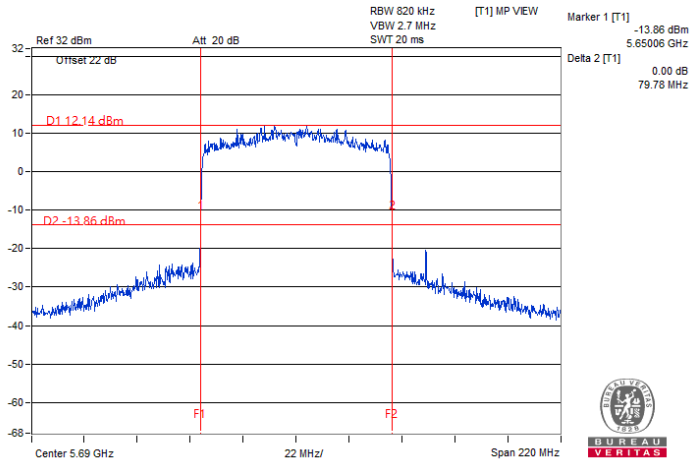
802.11a 2TX / Chain 0 : CH 144 (U-NII-3)



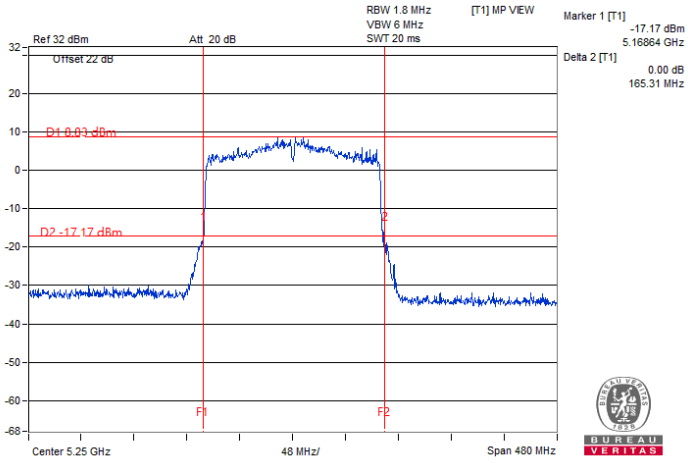
802.11be (EHT20) 2S2T / Chain 1 : CH 144 (U-NII-3)



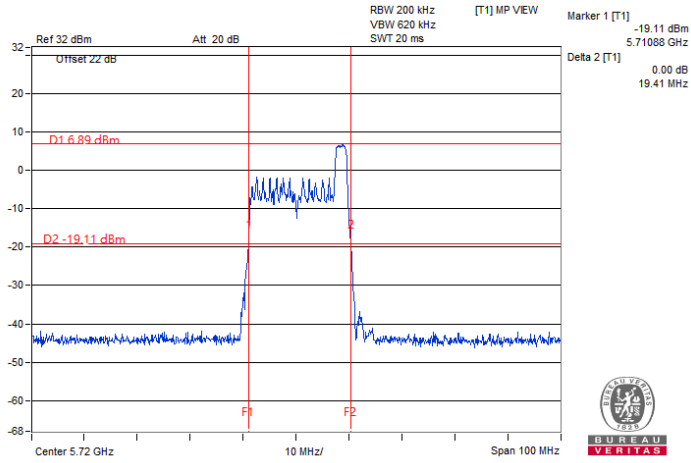
802.11be (EHT40) 2S2T / Chain 1 : CH 142 (U-NII-3)



802.11be (EHT80) 2S2T / Chain 1 : CH 138 (U-NII-3)

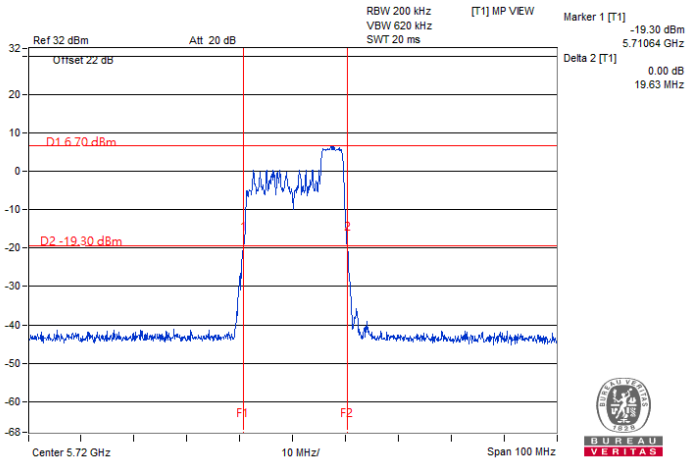


802.11be (EHT160) 2S2T / Chain 0 : CH 50 (U-NII-1)

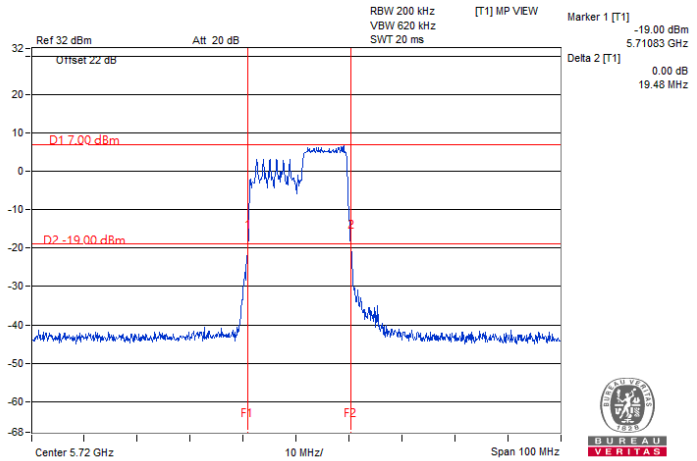


802.11be (EHT20) 26-tone RU 2S2T / Chain 0 : CH 144 (U-NII-3)

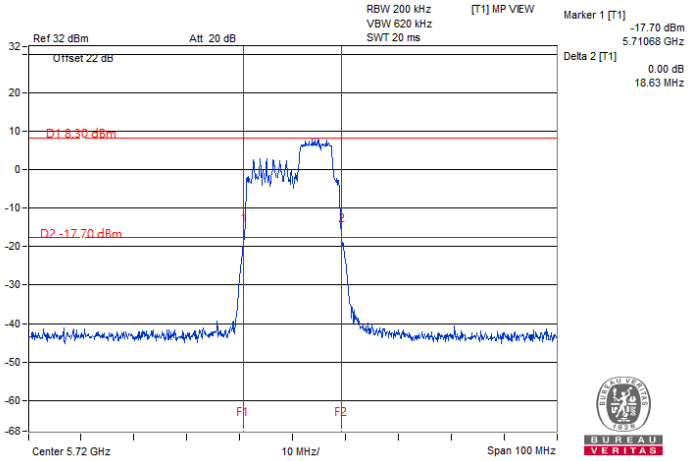
Spectrum Plot of Minimum Value



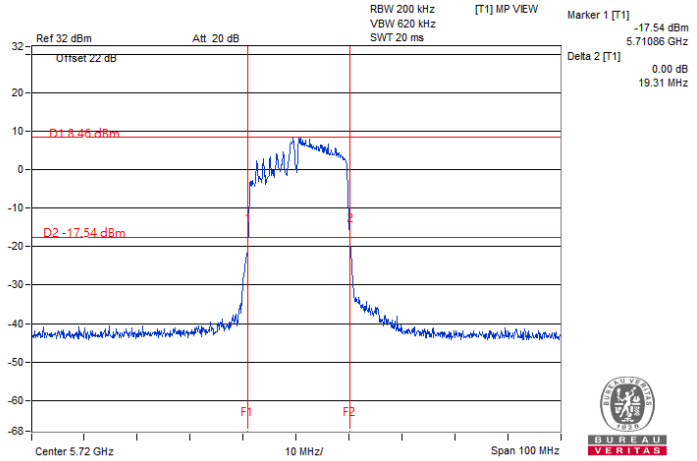
802.11be (EHT20) 52-tone RU 2S2T / Chain 0 : CH 144 (U-NII-3)



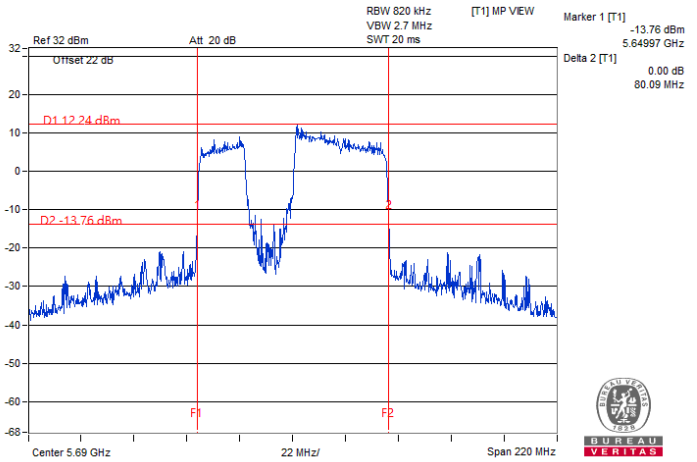
802.11be (EHT20) 106-tone RU 2S2T / Chain 1 : CH 144 (U-NII-3)



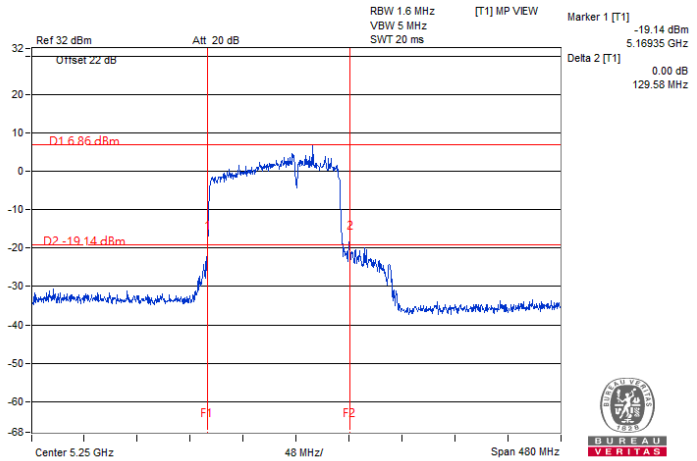
802.11be (EHT20) 52+26-tone MRU 2S2T / Chain 1 : CH 144 (U-NII-3)



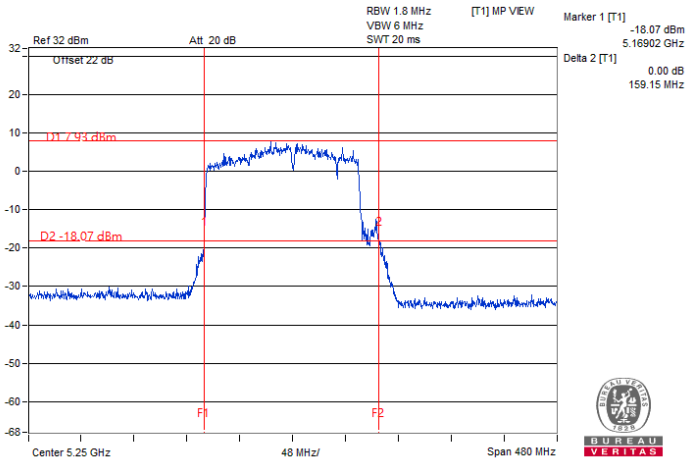
802.11be (EHT20) 106+26-tone MRU 2S2T / Chain 1 : CH 144 (U-NII-3)



802.11be (EHT80) 484+242-tone MRU 2S2T / Chain 0 : CH 138 (U-NII-3)



802.11be (EHT160) 996+484-tone MRU 2S2T / Chain 0 : CH 50 (U-NII-2A)

Spectrum Plot of Minimum Value	
 802.11be (EHT160) 996+484+242-tone MRU 2S2T / Chain 0 : CH 50 (U-NII-2A)	

Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

7.2 RF Output Power

Input Power:	3.3 Vdc	Environmental Conditions:	20°C, 60% RH	Tested By:	Henry Hsu

802.11a 1TX

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	80.538	19.06	21.63	Pass
40	5200	81.096	19.09	21.63	Pass
48	5240	82.224	19.15	21.63	Pass
52	5260	86.298	19.36	21.23	Pass
60	5300	82.985	19.19	21.29	Pass
64	5320	81.658	19.12	21.47	Pass
100	5500	92.897	19.68	21.63	Pass
116	5580	91.411	19.61	21.2	Pass
140	5700	84.333	19.26	21.26	Pass
*144 (U-NII-2C)	5720	68.279	18.34	20.08	Pass
*144 (U-NII-3)	5720	17.31	12.38	27.63	Pass
149	5745	191.426	22.82	27.63	Pass
157	5785	186.638	22.71	27.63	Pass
165	5825	189.671	22.78	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11ac (VHT20) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	90.573	19.57	21.63	Pass
40	5200	91.201	19.60	21.63	Pass
48	5240	95.06	19.78	21.63	Pass
52	5260	94.189	19.74	21.61	Pass
60	5300	92.045	19.64	21.63	Pass
64	5320	91.411	19.61	21.59	Pass
100	5500	90.573	19.57	21.63	Pass
116	5580	92.257	19.65	21.59	Pass
140	5700	85.507	19.32	21.63	Pass
*144 (U-NII-2C)	5720	71.962	18.57	20.37	Pass
*144 (U-NII-3)	5720	13.462	11.29	27.63	Pass
149	5745	186.638	22.71	27.63	Pass
157	5785	184.077	22.65	27.63	Pass
165	5825	181.134	22.58	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11ac (VHT40) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	64.714	18.11	21.63	Pass
46	5230	69.823	18.44	21.63	Pass
54	5270	76.033	18.81	21.63	Pass
62	5310	74.302	18.71	21.63	Pass
102	5510	90.782	19.58	21.63	Pass
110	5550	127.35	21.05	21.63	Pass
134	5670	105.925	20.25	21.63	Pass
*142 (U-NII-2C)	5710	129.566	21.12	21.63	Pass
*142 (U-NII-3)	5710	8.482	9.28	27.63	Pass
151	5755	144.877	21.61	27.63	Pass
159	5795	142.561	21.54	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11ac (VHT80) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	53.951	17.32	21.63	Pass
58	5290	59.566	17.75	21.63	Pass
106	5530	80.353	19.05	21.63	Pass
122	5610	127.35	21.05	21.63	Pass
*138 (U-NII-2C)	5690	121.349	20.84	21.63	Pass
*138 (U-NII-3)	5690	4.842	6.85	27.63	Pass
155	5775	133.352	21.25	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11ac (VHT160) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
*50 (U-NII-1)	5250	14.936	11.74	21.63	Pass
*50 (U-NII-2A)	5250	15.074	11.78	21.63	Pass
114	5570	60.117	17.79	21.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].

802.11ax (HE20) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	91.833	19.63	21.63	Pass
40	5200	92.47	19.66	21.63	Pass
48	5240	95.719	19.81	21.63	Pass
52	5260	95.06	19.78	21.61	Pass
60	5300	93.756	19.72	21.63	Pass
64	5320	93.325	19.70	21.59	Pass
100	5500	92.683	19.67	21.63	Pass
116	5580	94.406	19.75	21.59	Pass
140	5700	87.096	19.40	21.63	Pass
*144 (U-NII-2C)	5720	73.132	18.64	20.37	Pass
*144 (U-NII-3)	5720	13.967	11.45	27.63	Pass
149	5745	190.546	22.80	27.63	Pass
157	5785	187.932	22.74	27.63	Pass
165	5825	184.502	22.66	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11ax (HE40) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	66.374	18.22	21.63	Pass
46	5230	72.611	18.61	21.63	Pass
54	5270	77.625	18.90	21.63	Pass
62	5310	77.09	18.87	21.63	Pass
102	5510	94.189	19.74	21.63	Pass
110	5550	130.317	21.15	21.63	Pass
134	5670	111.173	20.46	21.63	Pass
*142 (U-NII-2C)	5710	130.464	21.15	21.63	Pass
*142 (U-NII-3)	5710	9.005	9.54	27.63	Pass
151	5755	151.705	21.81	27.63	Pass
159	5795	146.555	21.66	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11ax (HE80) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	56.494	17.52	21.63	Pass
58	5290	61.802	17.91	21.63	Pass
106	5530	83.368	19.21	21.63	Pass
122	5610	132.739	21.23	21.63	Pass
*138 (U-NII-2C)	5690	125.614	20.99	21.63	Pass
*138 (U-NII-3)	5690	4.955	6.95	27.63	Pass
155	5775	138.038	21.40	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11ax (HE160) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
*50 (U-NII-1)	5250	14.97	11.75	21.63	Pass
*50 (U-NII-2A)	5250	15.213	11.82	21.63	Pass
114	5570	61.802	17.91	21.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].

802.11be (EHT20) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	92.897	19.68	21.63	Pass
40	5200	93.541	19.71	21.63	Pass
48	5240	97.499	19.89	21.63	Pass
52	5260	96.828	19.86	21.61	Pass
60	5300	96.383	19.84	21.63	Pass
64	5320	95.719	19.81	21.59	Pass
100	5500	94.842	19.77	21.63	Pass
116	5580	96.161	19.83	21.59	Pass
140	5700	87.902	19.44	21.63	Pass
*144 (U-NII-2C)	5720	74.149	18.70	20.37	Pass
*144 (U-NII-3)	5720	14.625	11.65	27.63	Pass
149	5745	195.434	22.91	27.63	Pass
157	5785	192.309	22.84	27.63	Pass
165	5825	190.546	22.80	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11be (EHT40) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	69.343	18.41	21.63	Pass
46	5230	74.473	18.72	21.63	Pass
54	5270	79.799	19.02	21.63	Pass
62	5310	79.433	19.00	21.63	Pass
102	5510	97.724	19.90	21.63	Pass
110	5550	133.66	21.26	21.63	Pass
134	5670	112.46	20.51	21.63	Pass
*142 (U-NII-2C)	5710	132.584	21.22	21.63	Pass
*142 (U-NII-3)	5710	9.13	9.60	27.63	Pass
151	5755	155.597	21.92	27.63	Pass
159	5795	151.356	21.80	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11be (EHT80) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	58.749	17.69	21.63	Pass
58	5290	63.533	18.03	21.63	Pass
106	5530	87.297	19.41	21.63	Pass
122	5610	134.586	21.29	21.63	Pass
*138 (U-NII-2C)	5690	130.028	21.14	21.63	Pass
*138 (U-NII-3)	5690	5.094	7.07	27.63	Pass
155	5775	139.959	21.46	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11be (EHT160) 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
*50 (U-NII-1)	5250	15.004	11.76	21.63	Pass
*50 (U-NII-2A)	5250	15.425	11.88	21.63	Pass
114	5570	63.241	18.01	21.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].

802.11ax (HE20) 26-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	15.488	11.90	21.63	Pass
64	5320	15.311	11.85	21.56	Pass
100	5500	14.723	11.68	21.53	Pass
140	5700	14.521	11.62	21.52	Pass
*144 (U-NII-2C)	5720	0.2876	-5.41	20.11	Pass
*144 (U-NII-3)	5720	13.703	11.37	27.63	Pass
149	5745	189.234	22.77	27.63	Pass
165	5825	183.231	22.63	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11ax (HE20) 52-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	28.84	14.60	21.63	Pass
64	5320	28.708	14.58	21.52	Pass
100	5500	28.51	14.55	21.57	Pass
140	5700	28.249	14.51	21.52	Pass
*144 (U-NII-2C)	5720	0.6593	-1.81	20.16	Pass
*144 (U-NII-3)	5720	25.886	14.13	27.63	Pass
149	5745	187.068	22.72	27.63	Pass
165	5825	184.077	22.65	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11ax (HE20) 106-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	53.088	17.25	21.63	Pass
64	5320	52.481	17.20	21.63	Pass
100	5500	51.88	17.15	21.63	Pass
140	5700	48.084	16.82	21.63	Pass
*144 (U-NII-2C)	5720	21.861	13.40	20.24	Pass
*144 (U-NII-3)	5720	22.839	13.59	27.63	Pass
149	5745	188.799	22.76	27.63	Pass
165	5825	181.97	22.60	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11be (EHT20) 26-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	15.631	11.94	21.63	Pass
64	5320	15.417	11.88	21.56	Pass
100	5500	14.825	11.71	21.53	Pass
140	5700	14.689	11.67	21.52	Pass
*144 (U-NII-2C)	5720	0.2991	-5.24	20.11	Pass
*144 (U-NII-3)	5720	14.349	11.57	27.63	Pass
149	5745	190.985	22.81	27.63	Pass
165	5825	187.932	22.74	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11be (EHT20) 52-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	29.309	14.67	21.63	Pass
64	5320	29.04	14.63	21.52	Pass
100	5500	28.84	14.60	21.57	Pass
140	5700	28.51	14.55	21.52	Pass
*144 (U-NII-2C)	5720	0.6654	-1.77	20.16	Pass
*144 (U-NII-3)	5720	26.489	14.23	27.63	Pass
149	5745	188.799	22.76	27.63	Pass
165	5825	186.638	22.71	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11be (EHT20) 106-tone RU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	53.58	17.29	21.63	Pass
64	5320	53.088	17.25	21.63	Pass
100	5500	52.24	17.18	21.63	Pass
140	5700	48.417	16.85	21.63	Pass
*144 (U-NII-2C)	5720	21.861	13.40	20.24	Pass
*144 (U-NII-3)	5720	25.508	14.07	27.63	Pass
149	5745	190.108	22.79	27.63	Pass
165	5825	186.209	22.70	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11be (EHT20) 52+26-tone MRU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	36.983	15.68	21.63	Pass
64	5320	36.728	15.65	21.32	Pass
100	5500	36.392	15.61	21.37	Pass
140	5700	38.194	15.82	21.42	Pass
*144 (U-NII-2C)	5720	23.099	13.64	20.14	Pass
*144 (U-NII-3)	5720	13.696	11.37	27.63	Pass
149	5745	185.78	22.69	27.63	Pass
165	5825	184.077	22.65	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11be (EHT20) 106+26-tone MRU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	45.92	16.62	21.63	Pass
64	5320	47.534	16.77	21.6	Pass
100	5500	47.315	16.75	21.63	Pass
140	5700	48.978	16.90	21.55	Pass
*144 (U-NII-2C)	5720	33.24	15.22	20.17	Pass
*144 (U-NII-3)	5720	14.848	11.72	27.63	Pass
149	5745	189.671	22.78	27.63	Pass
165	5825	187.499	22.73	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11be (EHT80) 484+242-tone MRU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	35.81	15.54	21.63	Pass
58	5290	51.523	17.12	21.63	Pass
106	5530	70.958	18.51	21.63	Pass
*138 (U-NII-2C)	5690	120.512	20.81	21.63	Pass
*138 (U-NII-3)	5690	6.383	8.05	27.63	Pass
155	5775	138.995	21.43	27.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
5. For U-NII-3, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.37-6) = 27.63 dBm.

802.11be (EHT160) 996+484-tone MRU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
*50 (U-NII-1)	5250	15.54	11.91	21.63	Pass
*50 (U-NII-2A)	5250	10.776	10.32	21.63	Pass
114	5570	37.584	15.75	21.63	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].

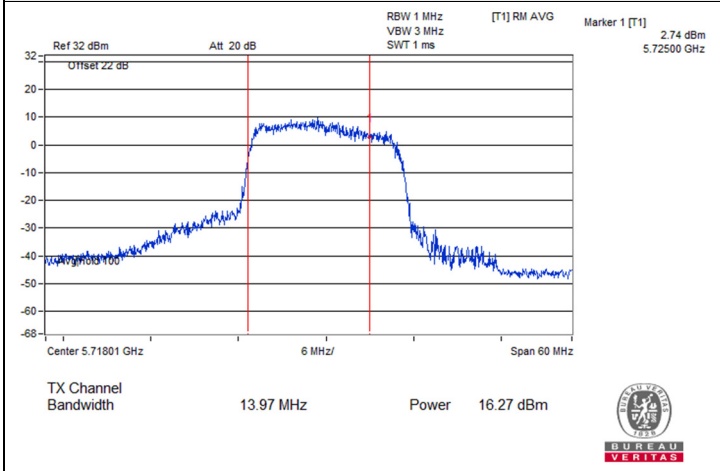
802.11be (EHT160) 996+484+242-tone MRU 1S1T

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
*50 (U-NII-1)	5250	18.614	12.70	21.63	Pass
*50 (U-NII-2A)	5250	18.148	12.59	21.63	Pass
114	5570	60.954	17.85	21.63	Pass

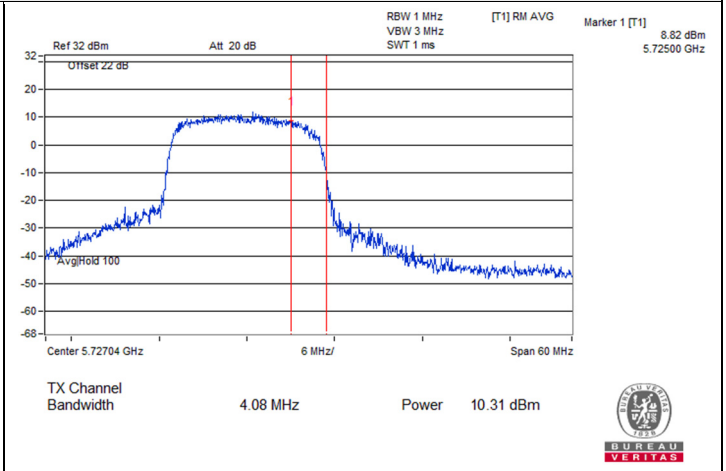
Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.37-6) = 21.63 dBm.
3. For U-NII-2A, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].
4. For U-NII-2C, the antenna gain is 8.37 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.37-6)].

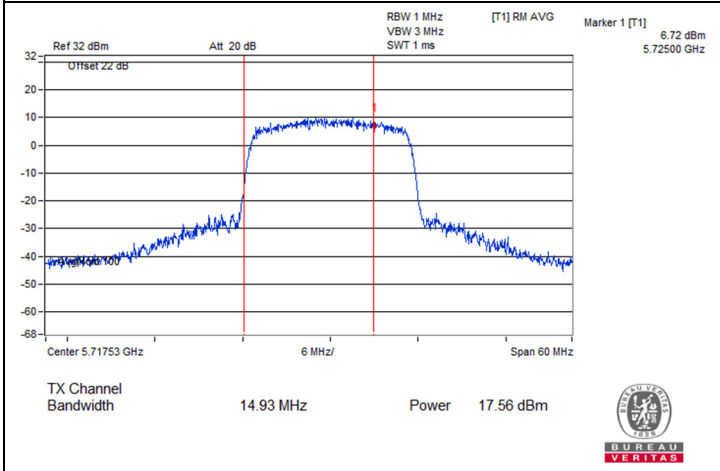
Spectrum Plot for channel straddling



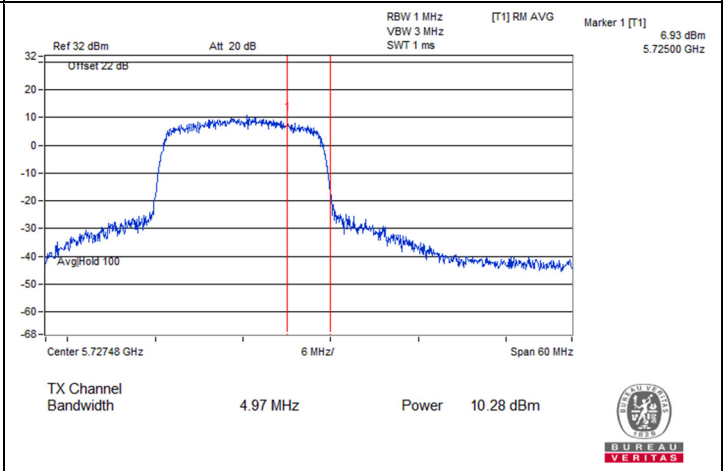
802.11a 1TX : CH 144 (U-NII-2C)



802.11a 1TX : CH 144 (U-NII-3)

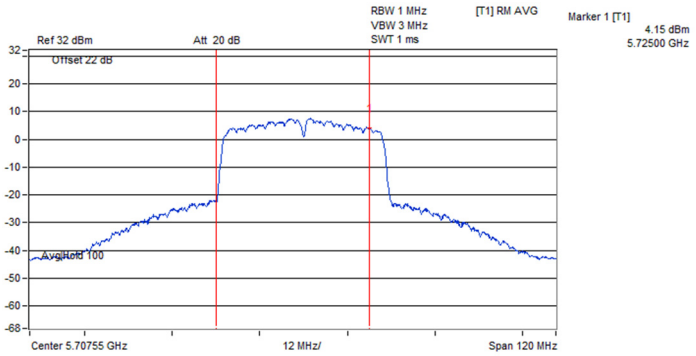


802.11ac (VHT20) 1S1T : CH 144 (U-NII-2C)



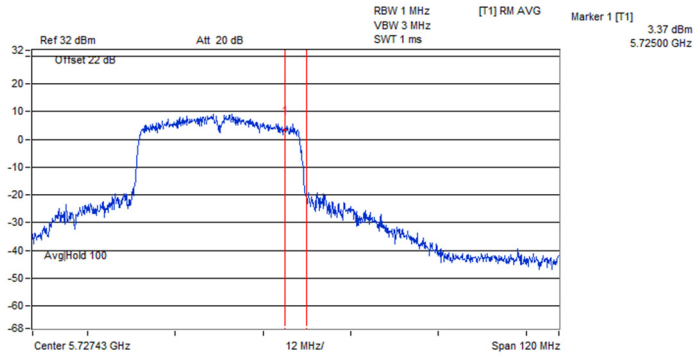
802.11ac (VHT20) 1S1T : CH 144 (U-NII-3)

Spectrum Plot for channel straddling



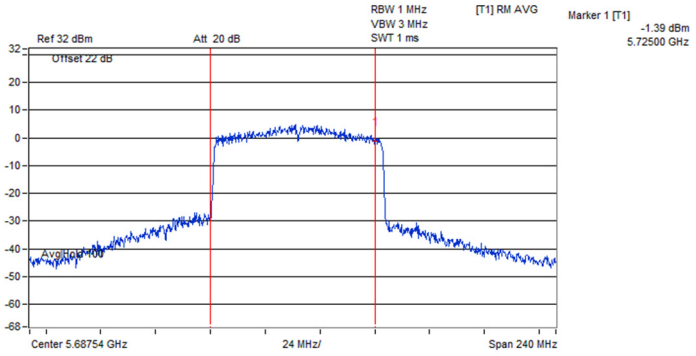
TX Channel Bandwidth 34.9 MHz Power 20.1 dBm

802.11ac (VHT40) 1S1T : CH 142 (U-NII-2C)



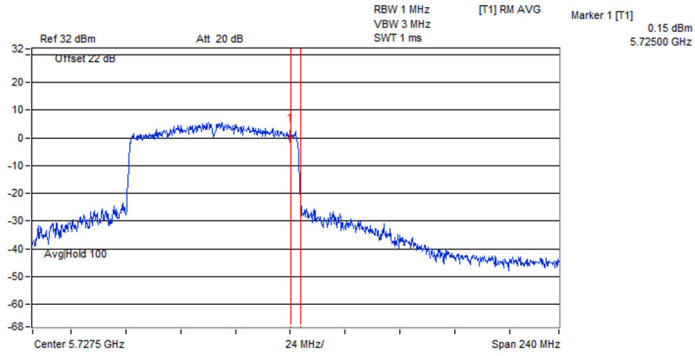
TX Channel Bandwidth 4.87 MHz Power 8.26 dBm

802.11ac (VHT40) 1S1T : CH 142 (U-NII-3)



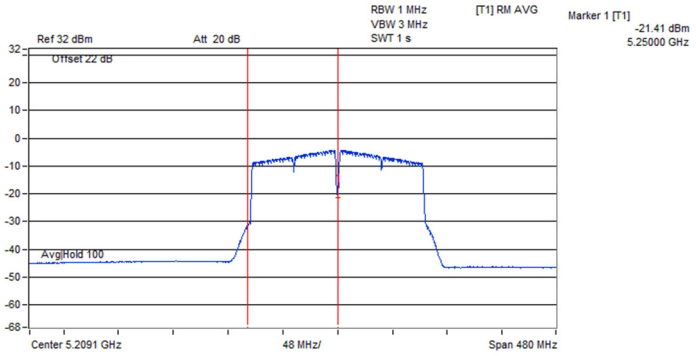
TX Channel Bandwidth 74.92 MHz Power 19.78 dBm

802.11ac (VHT80) 1S1T : CH 138 (U-NII-2C)



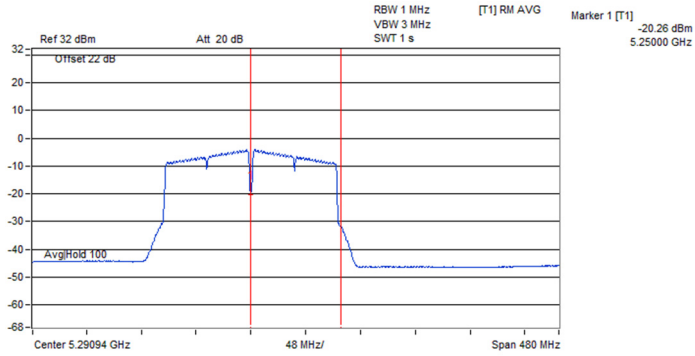
TX Channel Bandwidth 5 MHz Power 5.79 dBm

802.11ac (VHT80) 1S1T : CH 138 (U-NII-3)



TX Channel Bandwidth 81.8 MHz Power 10.79 dBm

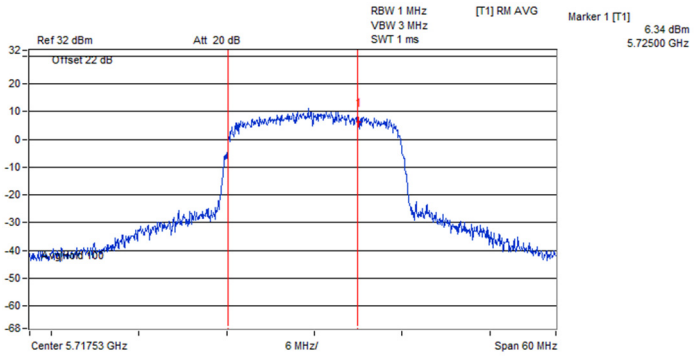
802.11ac (VHT160) 1S1T : CH 50 (U-NII-1)



TX Channel Bandwidth 81.87 MHz Power 10.83 dBm

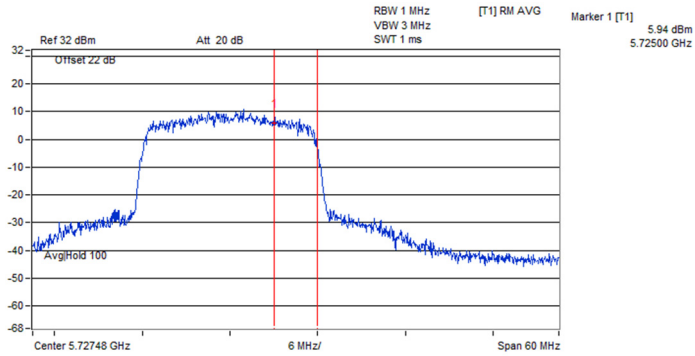
802.11ac (VHT160) 1S1T : CH 50 (U-NII-2A)

Spectrum Plot for channel straddling



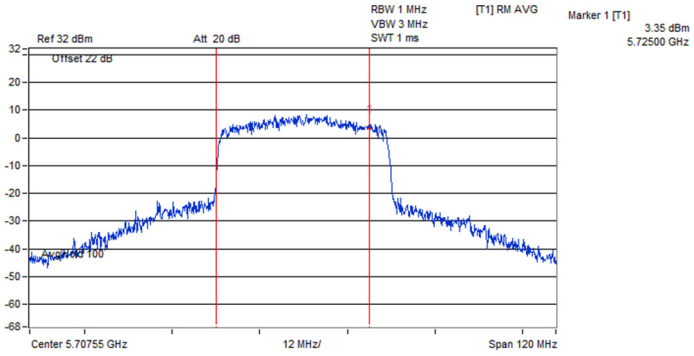
TX Channel Bandwidth 14.93 MHz Power 17.63 dBm

802.11ax (HE20) 1S1T : CH 144 (U-NII-2C)



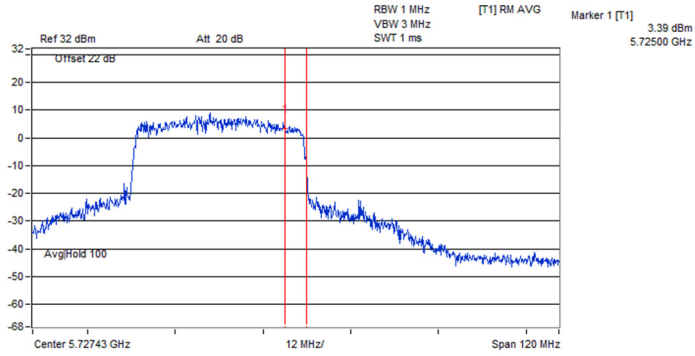
TX Channel Bandwidth 4.97 MHz Power 10.44 dBm

802.11ax (HE20) 1S1T : CH 144 (U-NII-3)



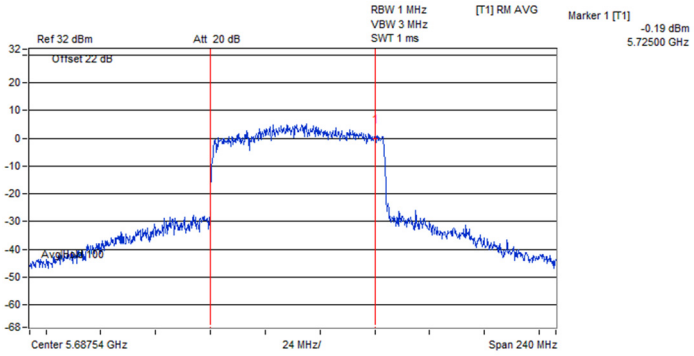
TX Channel Bandwidth 34.9 MHz Power 20.13 dBm

802.11ax (HE40) 1S1T : CH 142 (U-NII-2C)



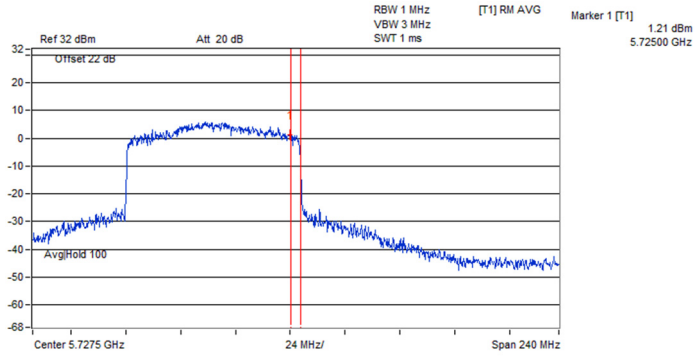
TX Channel Bandwidth 4.87 MHz Power 8.52 dBm

802.11ax (HE40) 1S1T : CH 142 (U-NII-3)



TX Channel Bandwidth 74.92 MHz Power 19.93 dBm

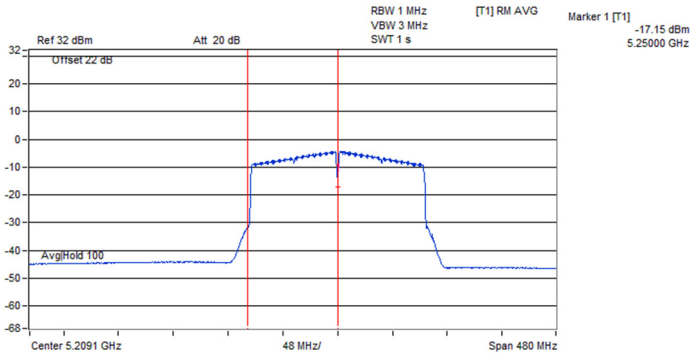
802.11ax (HE80) 1S1T : CH 138 (U-NII-2C)



TX Channel Bandwidth 5 MHz Power 5.89 dBm

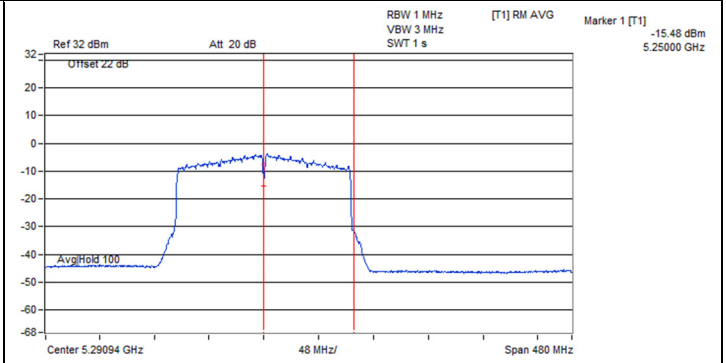
802.11ax (HE80) 1S1T : CH 138 (U-NII-3)

Spectrum Plot for channel straddling



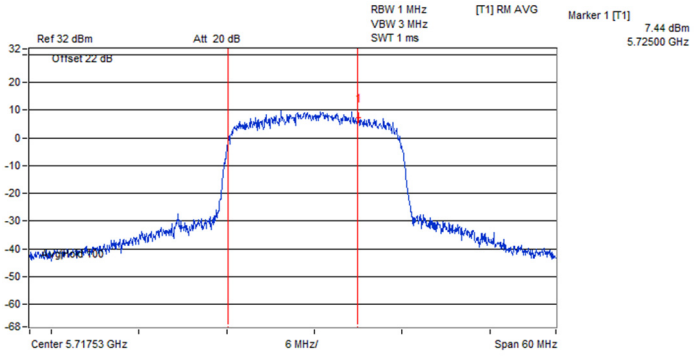
TX Channel Bandwidth 81.8 MHz Power 10.88 dBm

802.11ax (HE160) 1S1T : CH 50 (U-NII-1)



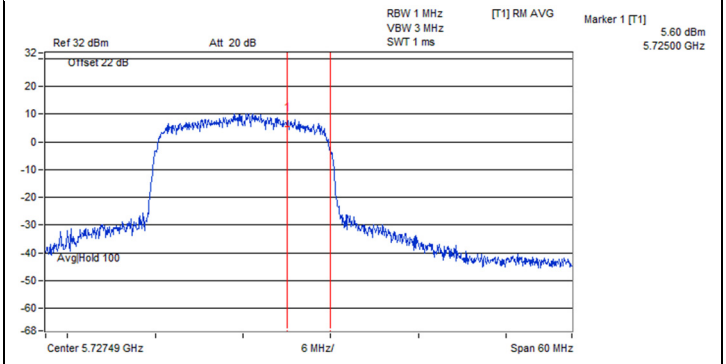
TX Channel Bandwidth 81.87 MHz Power 10.87 dBm

802.11ax (HE160) 1S1T : CH 50 (U-NII-2A)



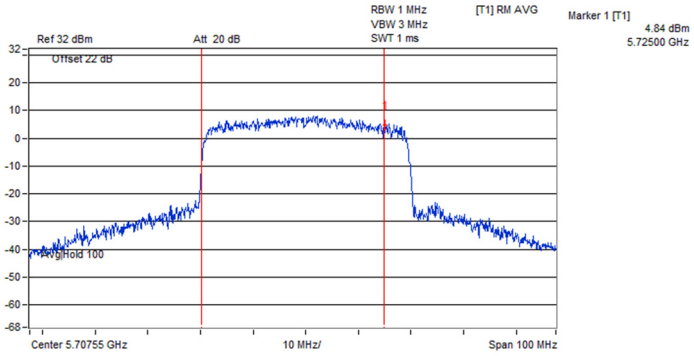
TX Channel Bandwidth 14.93 MHz Power 17.69 dBm

802.11be (EHT20) 1S1T : CH 144 (U-NII-2C)



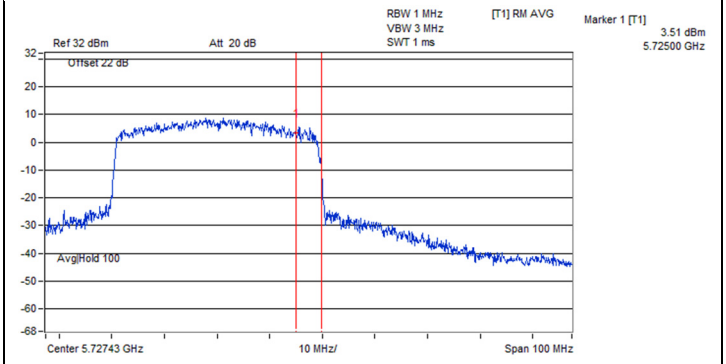
TX Channel Bandwidth 4.97 MHz Power 10.64 dBm

802.11be (EHT20) 1S1T : CH 144 (U-NII-3)



TX Channel Bandwidth 34.9 MHz Power 20.2 dBm

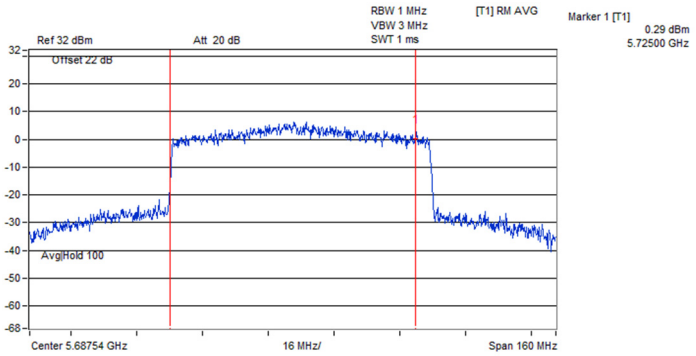
802.11be (EHT40) 1S1T : CH 142 (U-NII-2C)



TX Channel Bandwidth 4.87 MHz Power 8.58 dBm

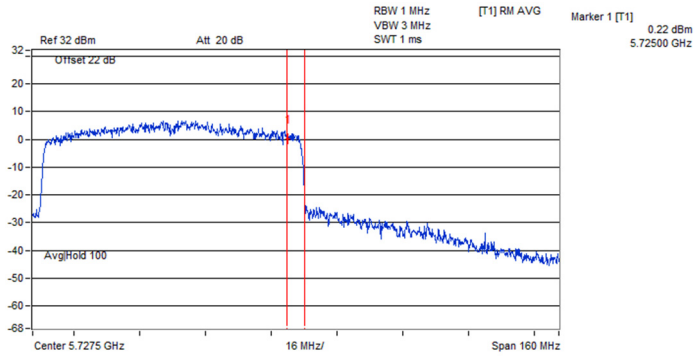
802.11be (EHT40) 1S1T : CH 142 (U-NII-3)

Spectrum Plot for channel straddling



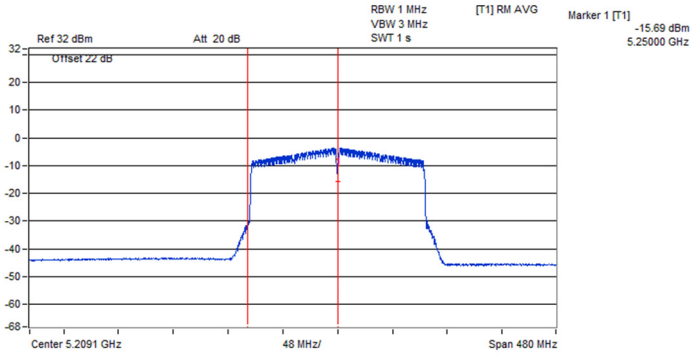
TX Channel Bandwidth 74.92 MHz Power 20.08 dBm

802.11be (EHT80) 1S1T : CH 138 (U-NII-2C)



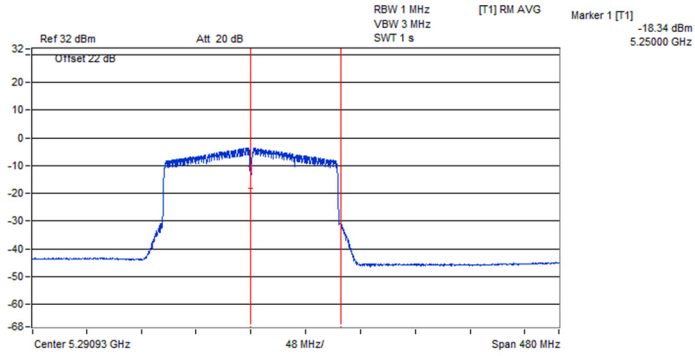
TX Channel Bandwidth 5 MHz Power 6.01 dBm

802.11be (EHT80) 1S1T : CH 138 (U-NII-3)



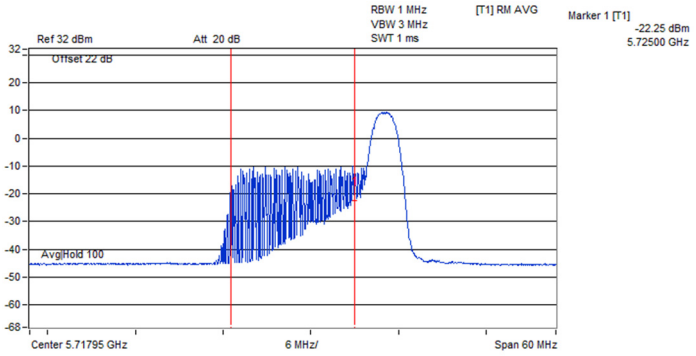
TX Channel Bandwidth 81.8 MHz Power 10.81 dBm

802.11be (EHT160) 1S1T : CH 50 (U-NII-1)



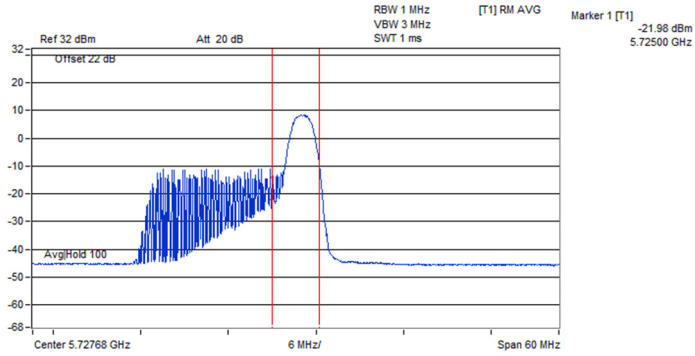
TX Channel Bandwidth 81.87 MHz Power 10.93 dBm

802.11be (EHT160) 1S1T : CH 50 (U-NII-2A)



TX Channel Bandwidth 14.09 MHz Power -5.6 dBm

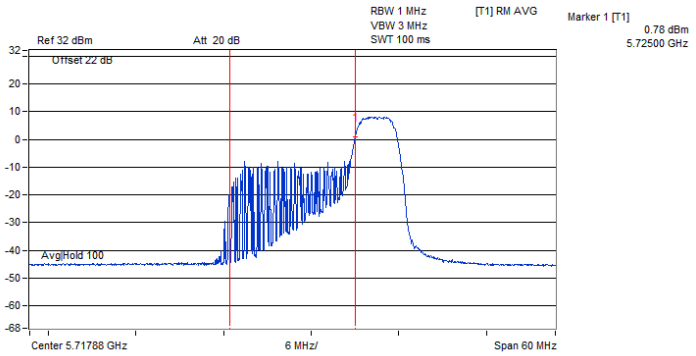
802.11ax (HE20) 26-tone RU 1S1T : CH 144 (U-NII-2C)



TX Channel Bandwidth 5.36 MHz Power 11.18 dBm

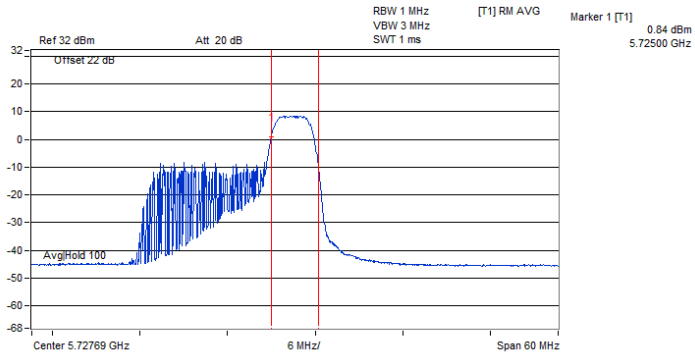
802.11ax (HE20) 26-tone RU 1S1T : CH 144 (U-NII-3)

Spectrum Plot for channel straddling



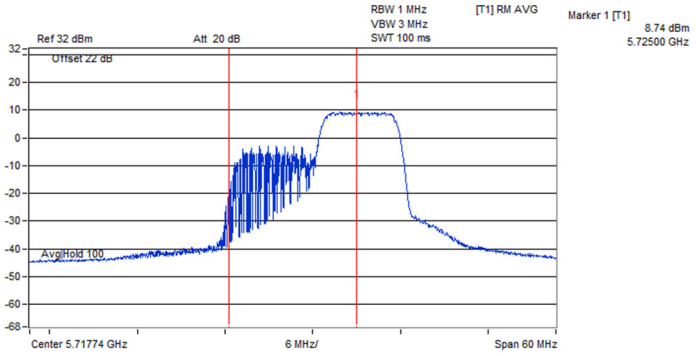
TX Channel Bandwidth 14.24 MHz Power -1.98 dBm

802.11ax (HE20) 52-tone RU 1S1T : CH 144 (U-NII-2C)



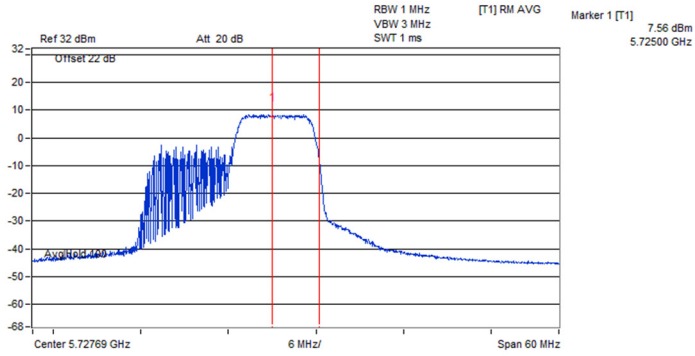
TX Channel Bandwidth 5.38 MHz Power 13.96 dBm

802.11ax (HE20) 52-tone RU 1S1T : CH 144 (U-NII-3)



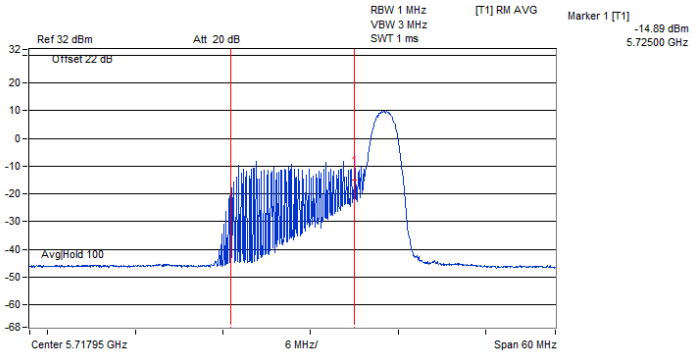
TX Channel Bandwidth 14.52 MHz Power 13.22 dBm

802.11ax (HE20) 106-tone RU 1S1T : CH 144 (U-NII-2C)



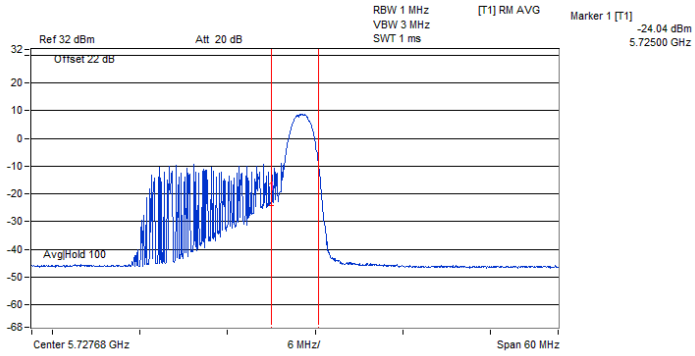
TX Channel Bandwidth 5.37 MHz Power 13.41 dBm

802.11ax (HE20) 106-tone RU 1S1T : CH 144 (U-NII-3)



TX Channel Bandwidth 14.09 MHz Power -5.43 dBm

802.11be (EHT20) 26-tone RU 1S1T : CH 144 (U-NII-2C)



TX Channel Bandwidth 5.36 MHz Power 11.38 dBm

802.11be (EHT20) 26-tone RU 1S1T : CH 144 (U-NII-3)