

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Report No.: RFBBUI-WTW-P23070201-5 R1

FCC ID: TX2-RTL8922AE

Product: 11be RTL8922AE Combo module

Brand: REALTEK

Model No.: RTL8922AE

Received Date: 2023/7/11

Test Date: 2023/8/5 ~ 2023/9/22

Issued Date: 2023/12/1

Applicant: Realtek Semiconductor Corp.

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FCC Registration / 198487 / TW2021

Designation Number:

Approved by: Jeremy Lin, **Date:** 2023/12/1
Jeremy Lin / Project Engineer

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Prepared by : Annie Chang / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBBUI-WTW-P23070201-5	Original release.	2023/10/24
RFBBUI-WTW-P23070201-5 R1	Add antenna (Model: RFA-57-JP805-4B-300) information.	2023/12/1

1 Certificate

Product: 11be RTL8922AE Combo module

Brand: REALTEK

Test Model: RTL8922AE

Sample Status: Engineering sample

Applicant: Realtek Semiconductor Corp.

Test Date: 2023/8/5 ~ 2023/9/22

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement ANSI C63.10-2013

procedure: 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	Pass	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(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -7.45 dB at 0.15391 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -2.0 dB at 165.99 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 -1.5 dB at 5150.00, 5350.00, 5470.00, 5646.80 and 5725.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is IPEX, MHF4 not a standard connector.

Notes:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 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) (±)
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.94 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.38 dB
	30 MHz ~ 1 GHz	5.7 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 6 GHz	4.83 dB
	6 GHz ~ 18 GHz	5.37 dB
	18 GHz ~ 40 GHz	5.24 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	11be RTL8922AE Combo module
Brand	REALTEK
Test Model	RTL8922AE
Status of EUT	Engineering sample
Power Supply Rating	DC 3.3V 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	Up to 2401.9 Mbps 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
Output Power	5.18 GHz ~ 5.25 GHz : 175.792 mW (22.45 dBm) 5.26 GHz ~ 5.32 GHz : 176.198 mW (22.46 dBm) 5.5 GHz ~ 5.72 GHz : 169.434 mW (22.29 dBm) 5.745 GHz ~ 5.825 GHz : 343.329 mW (25.36 dBm)
EUT Category	Client device

Note:

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

Condition	Technology	
1Tx		
1	WLAN (5 GHz)_H	Bluetooth + WLAN (5 GHz)_L
2	WLAN (5 GHz)_L	Bluetooth + WLAN (5 GHz)_H
3	WLAN (5 GHz)_L	Bluetooth + WLAN (6 GHz)
4	WLAN (6 GHz)	Bluetooth + WLAN (5 GHz)_L
5	WLAN (6 GHz)	Bluetooth + WLAN (5 GHz)_H
6	WLAN (5 GHz)_H	Bluetooth + WLAN (6 GHz)
7	WLAN (2.4 GHz)	WLAN (5 GHz) Full
8	WLAN (2.4 GHz)	WLAN (6 GHz)
9	WLAN (5 GHz) Full	Bluetooth
10	WLAN (6 GHz)	Bluetooth
2Tx		
1	WLAN (5 GHz)_L	WLAN (5 GHz)_L + Bluetooth
2	WLAN (5 GHz)_H	WLAN (5 GHz)_H + Bluetooth
3	WLAN (6 GHz)	WLAN (6 GHz) + Bluetooth

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 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 Port NO.	Chain NO.	Brand	Model	Antenna Net Gain (dBi)	Frequency range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	1/2	Chain0/1	REALTEK	RTK-ANT-0022	3.4	2.4~2.4835	PIFA	IPEX, MHF4	300
					5	5.15~5.895			
					5	5.925~7.125			
2	1/2	Chain0/1	ARISTOTLE	RFA-57-JP805-4B-300	-1.87	5.15~5.895	PIFA	IPEX, MHF4	300
					-1.88	5.925~7.125			

Note: The max. antenna gain was selected for the final test.

* 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	CDD Mode	Beamforming Mode	Tx & Rx Configuration	
802.11a	Support	Not Support	2Tx/1Tx Diversity	2Rx
802.11n (HT20)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11n (HT40)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11ac (VHT20)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11ac (VHT40)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11ac (VHT80)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11ac (VHT160)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11ax (HE20)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11ax (HE40)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11ax (HE80)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11ax (HE160)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11be (EHT20)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11be (EHT40)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11be (EHT80)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11be (EHT160)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11ax (RU26/52/106/242/484/996/2x996)	Support	Support	2Tx/1Tx Diversity	2Rx
802.11be (RU26/52/106/242/484/996/2x996)	Support	Support	2Tx/1Tx Diversity	2Rx

Note:

- All of modulation mode support beamforming function except 802.11a modulation mode.
- The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
- 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 manufacturer will control the power for 802.11n/ac/ax mode is same as the 802.11be mode or more lower than it and investigated worst case to 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		

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

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

Channel	Frequency
114	5570 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	<p>1. PIFA antenna can be used in the following ways: X / Y / Z axis. Pre-scan in these ways and find the worst case as a representative test condition.</p> <p>2. For 1Tx Diversity configuration. Pre-scan in these chain0 and chain1 and find the worst case as a representative test condition.</p> <p>3. For Partial RU modes of all supported bandwidth modes needs to be pre-worst.</p> <p>4. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.</p>
Worst Case:	<p>1. PIFA antenna the worst case was found when positioned on (X / Y / Z axis): Unwanted Emissions below 1 GHz: Y-axis. Unwanted Emissions above 1 GHz: Y-axis.</p> <p>2. For 1Tx Diversity configuration the worst chain is: chain1.</p> <p>3. The worst case occurs in 20MHz bandwidth(RU 26/52/106).</p>

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

Test Item	Mode	Transmitter Configuration	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
26 dB Bandwidth	802.11a	1Tx / 2Tx	SISO/ CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s	NA
	802.11be (EHT20)		SISO/ CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0	NA
	802.11be (EHT40)		SISO/ CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0	NA
	802.11be (EHT80)		SISO/ CDD	58, 106, 122, 138	BPSK	MCS0	NA
	802.11be (EHT160)		SISO/ CDD	50, 114	BPSK	MCS0	NA
	802.11be (EHT20) 26-tone RU		SISO/ CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0	0, 4, 0, 8, 4, 8, 8
	802.11be (EHT20) 52-tone RU		SISO/ CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0	37, 38, 37, 40, 38, 40, 40
	802.11be (EHT20) 106-tone RU		SISO/ CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0	53, 53, 54, 53, 53, 54, 54
RF Output Power	802.11a	1Tx / 2Tx	SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s	NA
	802.11ax (HE20)		SISO/ CDD & TxBF	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	NA

Test Item	Mode	Transmitter Configuration	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
	802.11ax (HE40)		SISO/ CDD & TxBF	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0	NA
	802.11ax (HE80)		SISO/ CDD & TxBF	42, 58, 106, 122, 138, 155	BPSK	MCS0	NA
	802.11ax (HE160)		SISO/ CDD & TxBF	50, 114	BPSK	MCS0	NA
	802.11be (EHT20)		SISO/ CDD & TxBF	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	NA
	802.11be (EHT40)		SISO/ CDD & TxBF	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0	NA
	802.11be (EHT80)		SISO/ CDD & TxBF	42, 58, 106, 122, 138, 155	BPSK	MCS0	NA
	802.11be (EHT160)		SISO/ CDD & TxBF	50, 114	BPSK	MCS0	NA
	802.11be (EHT20) 26-tone RU		SISO/ CDD & TxBF	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	8, 4, 8, 0, 4, 0, 8, 4, 8, 8, 0, 4, 0
	802.11be (EHT20) 52-tone RU		SISO/ CDD & TxBF	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	40, 38, 40, 37, 38, 37, 40, 38, 40, 40, 37, 38, 37
	802.11be (EHT20) 106-tone RU		SISO/ CDD & TxBF	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	53, 53, 54, 53, 53, 54, 53, 53, 54, 54, 53, 53, 54

Test Item	Mode	Transmitter Configuration	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
Power Spectral Density	802.11a	1Tx / 2Tx	SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s	NA
	802.11be (EHT20)		SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	NA
	802.11be (EHT40)		SISO/ CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0	NA
	802.11be (EHT80)		SISO/ CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0	NA
	802.11be (EHT160)		SISO/ CDD	50, 114	BPSK	MCS0	NA
	802.11be (EHT20) 26-tone RU		SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	8, 4, 8, 0, 4, 0, 8, 4, 8, 8, 0, 4, 0
	802.11be (EHT20) 52-tone RU		SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	40, 38, 40, 37, 38, 37, 40, 38, 40, 40, 37, 38, 37
	802.11be (EHT20) 106-tone RU		SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	53, 53, 54, 53, 53, 54, 53, 53, 54, 54, 53, 53, 54
6 dB Bandwidth	802.11a	1Tx / 2Tx	SISO/ CDD	144, 149, 157, 165	BPSK	6Mb/s	NA
	802.11be (EHT20)		SISO/ CDD	144, 149, 157, 165	BPSK	MCS0	NA
	802.11be (EHT40)		SISO/ CDD	142, 151, 159	BPSK	MCS0	NA
	802.11be (EHT80)		SISO/ CDD	138, 155	BPSK	MCS0	NA

Test Item	Mode	Transmitter Configuration	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
	802.11be (EHT20) 26-tone RU		SISO/ CDD	144, 149, 157, 165	BPSK	MCS0	8, 0, 4, 0
	802.11be (EHT20) 52-tone RU		SISO/ CDD	144, 149, 157, 165	BPSK	MCS0	40, 37, 38, 37
	802.11be (EHT20) 106-tone RU		SISO/ CDD	144, 149, 157, 165	BPSK	MCS0	54, 53, 53, 54
Occupied Bandwidth	802.11a	1Tx / 2Tx	SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s	NA
	802.11be (EHT20)		SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	NA
	802.11be (EHT40)		SISO/ CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0	NA
	802.11be (EHT80)		SISO/ CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0	NA
	802.11be (EHT160)		SISO/ CDD	50, 114	BPSK	MCS0	NA
	802.11be (EHT20) 26-tone RU		SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	8, 4, 8, 0, 4, 0, 8, 4, 8, 8, 0, 4, 0
	802.11be (EHT20) 52-tone RU		SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	40, 38, 40, 37, 38, 37, 40, 38, 40, 40, 37, 38, 37
	802.11be (EHT20) 106-tone RU		SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	53, 53, 54, 53, 53, 54, 53, 53, 54, 54, 53, 53, 54
Frequency Stability	802.11a	-	-	36	unmodulated	-	-

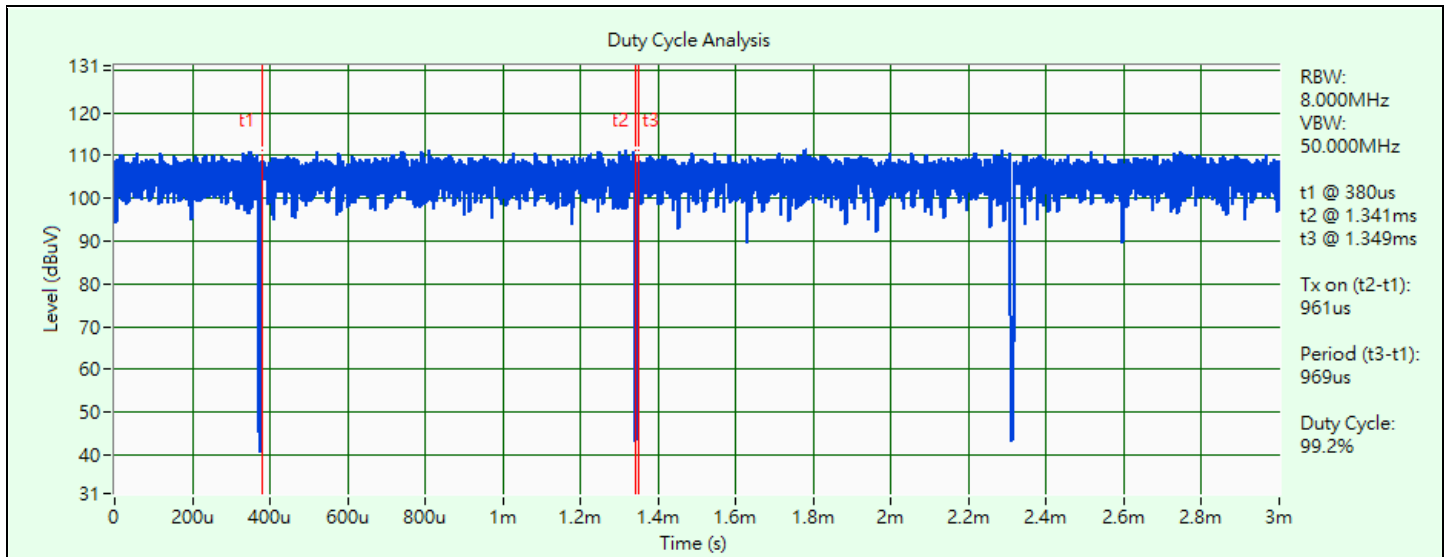
Test Item	Mode	Transmitter Configuration	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
AC Power Conducted Emissions	802.11be (EHT20)	1Tx	SISO	165	BPSK	MCS0	NA
	802.11a	2Tx	CDD	157	BPSK	6Mb/s	NA
Unwanted Emissions below 1 GHz	802.11be (EHT20)	1Tx	SISO	165	BPSK	MCS0	NA
	802.11a	2Tx	CDD	157	BPSK	6Mb/s	NA
Unwanted Emissions above 1 GHz	802.11a	1Tx / 2Tx	SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s	NA
	802.11be (EHT20)		SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	NA
	802.11be (EHT40)		SISO/ CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0	NA
	802.11be (EHT80)		SISO/ CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0	NA
	802.11be (EHT160)		SISO/ CDD	50, 114	BPSK	MCS0	NA
	802.11be (EHT20) 26-tone RU		SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	8, 4, 8, 0, 4, 0, 8, 4, 8, 8, 0, 4, 0
	802.11be (EHT20) 52-tone RU		SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	40, 38, 40, 37, 38, 37, 40, 38, 40, 40, 37, 38, 37
	802.11be (EHT20) 106-tone RU		SISO/ CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0	53, 53, 54, 53, 53, 54, 53, 53, 54, 54, 53, 53, 54

Note:

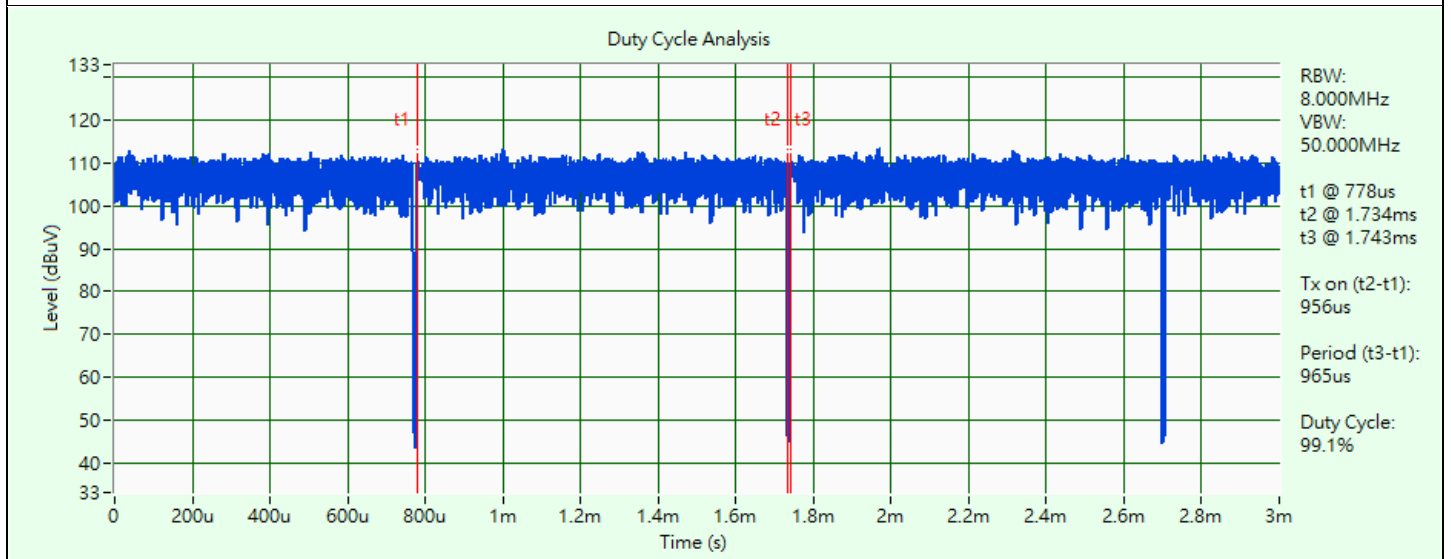
Channel puncturing and bandwidth reduction mechanisms are not supported.

3.5 Duty Cycle of Test Signal

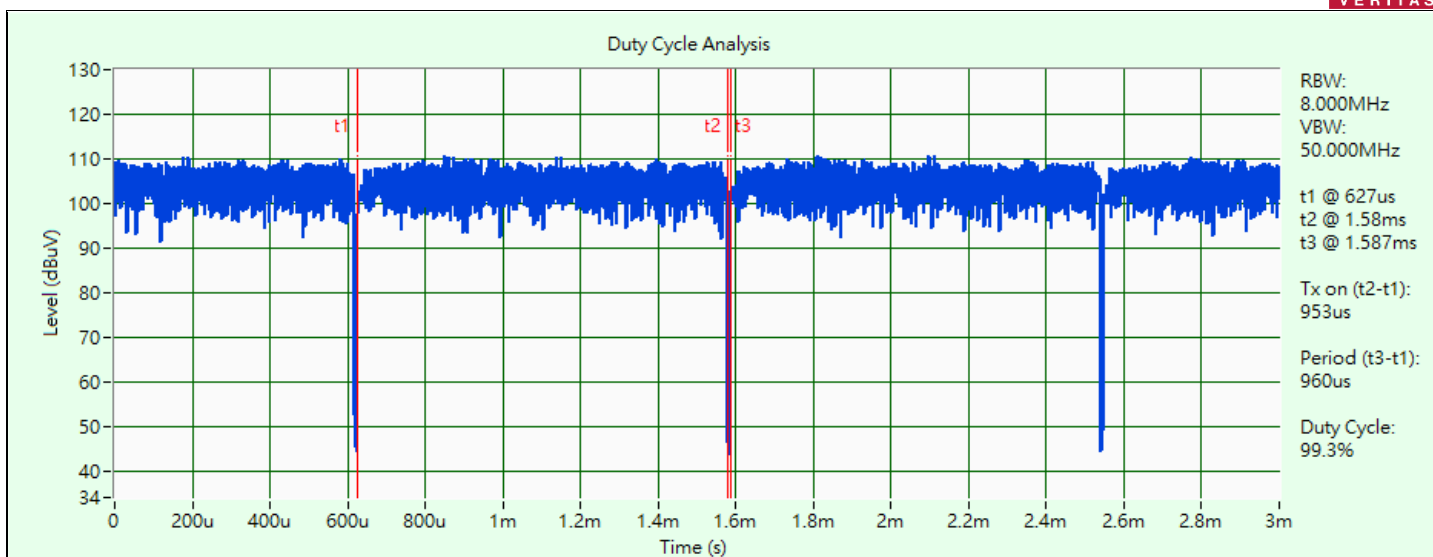
- 802.11a: Duty cycle = 0.961 ms / 0.969 ms x 100% = 99.2%
- 802.11be (EHT20): Duty cycle = 0.956 ms / 0.965 ms x 100% = 99.1%
- 802.11be (EHT40): Duty cycle = 0.953 ms / 0.96 ms x 100% = 99.3%
- 802.11be (EHT80): Duty cycle = 0.991 ms / 0.999 ms x 100% = 99.2%
- 802.11be (EHT160): Duty cycle = 0.989 ms / 0.997 ms x 100% = 99.2%
- 802.11be (EHT20) 26-tone RU: Duty cycle = 0.95 ms / 0.963 ms x 100% = 98.7%
- 802.11be (EHT20) 52-tone RU: Duty cycle = 0.937 ms / 0.95 ms x 100% = 98.6%
- 802.11be (EHT20) 106-tone RU: Duty cycle = 0.963 ms / 0.97 ms x 100% = 99.3%



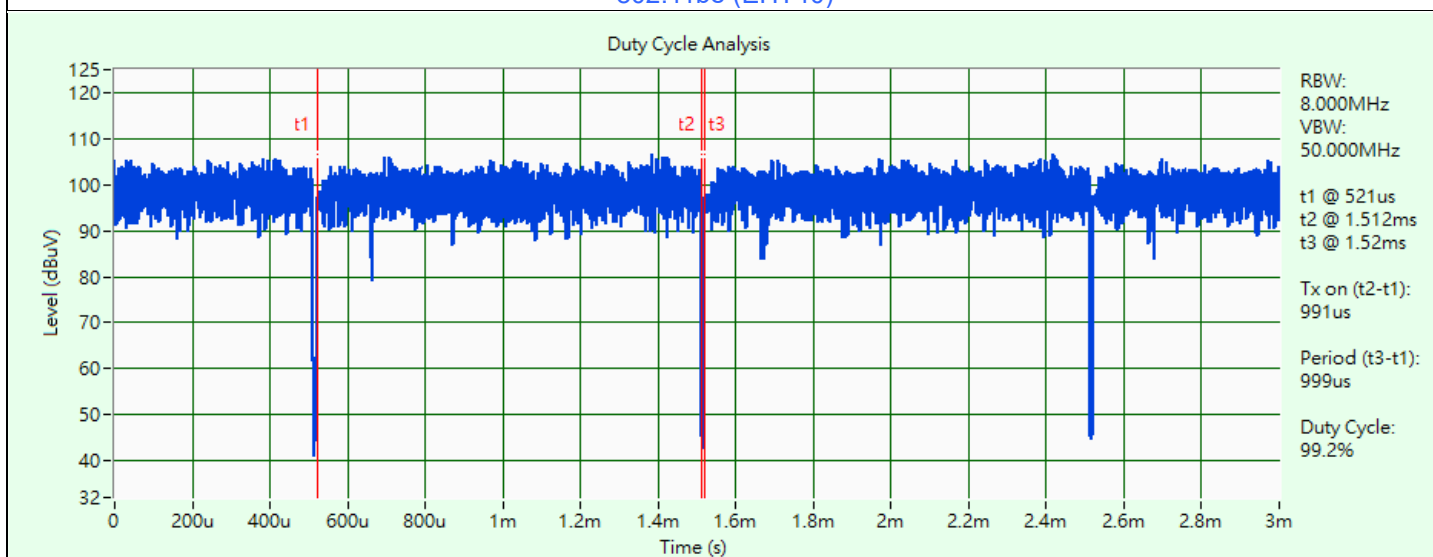
802.11a



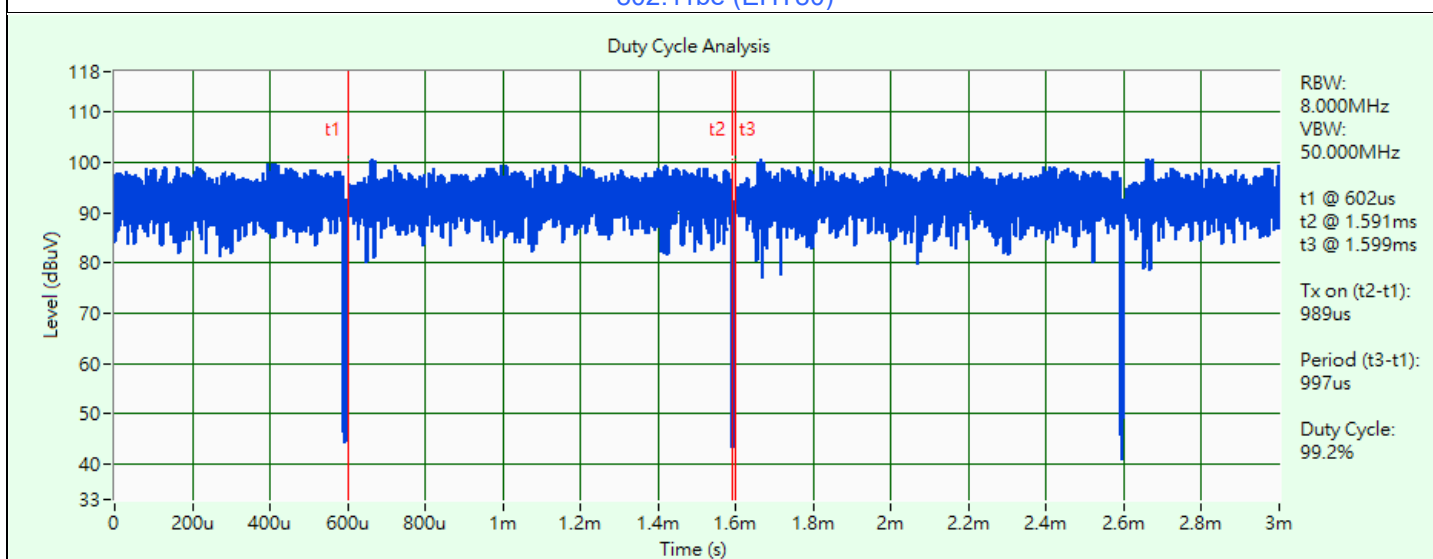
802.11be (EHT20)



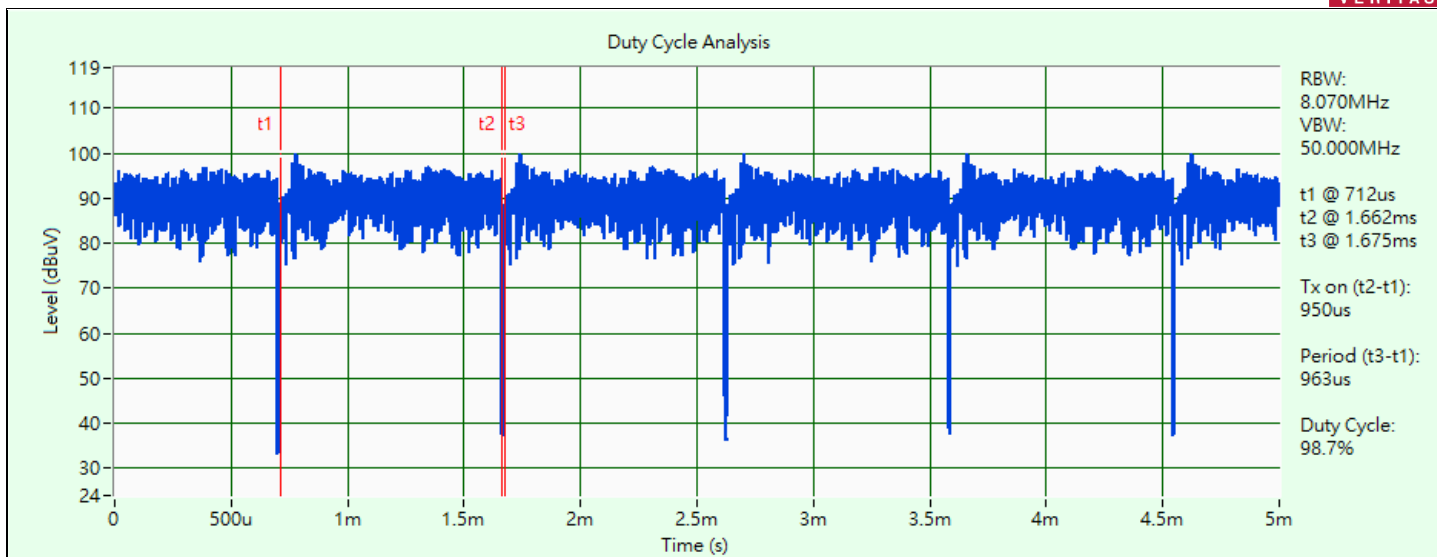
802.11be (EHT40)



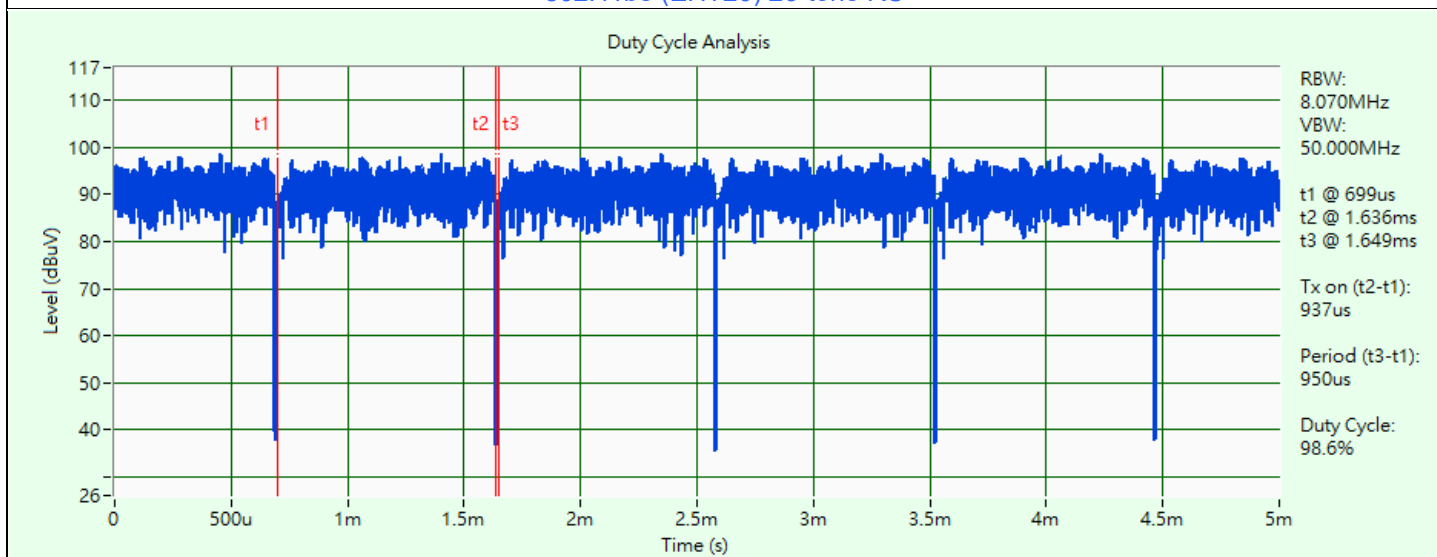
802.11be (EHT80)



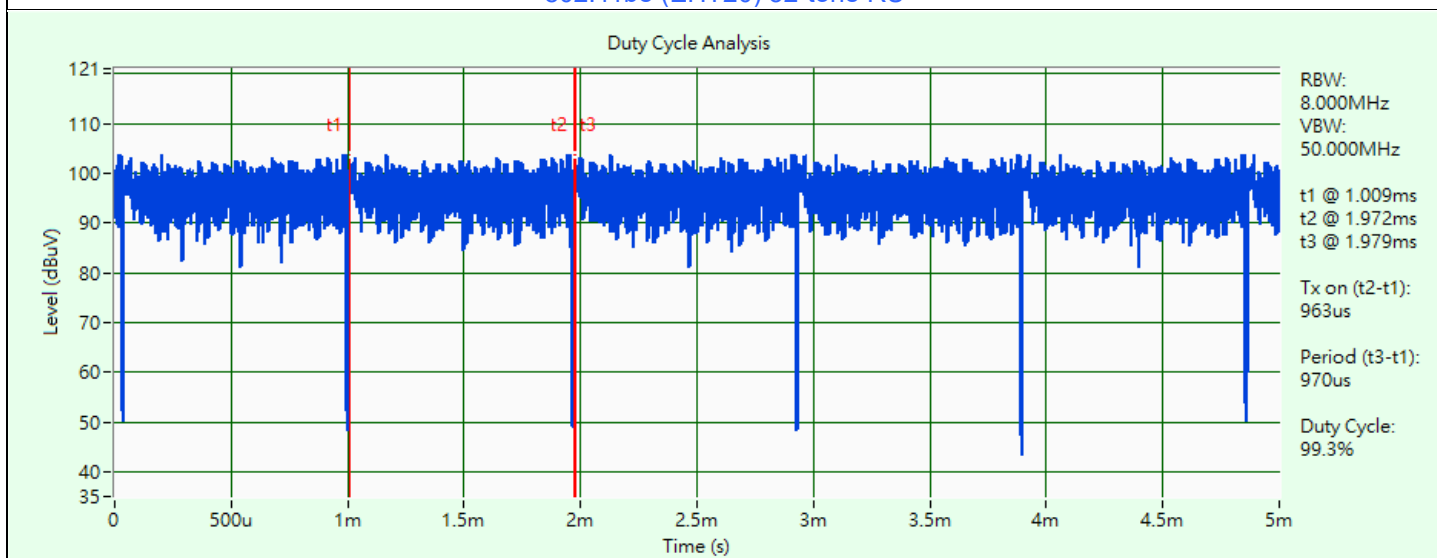
802.11be (EHT160)



802.11be (EHT20) 26-tone RU



802.11be (EHT20) 52-tone RU

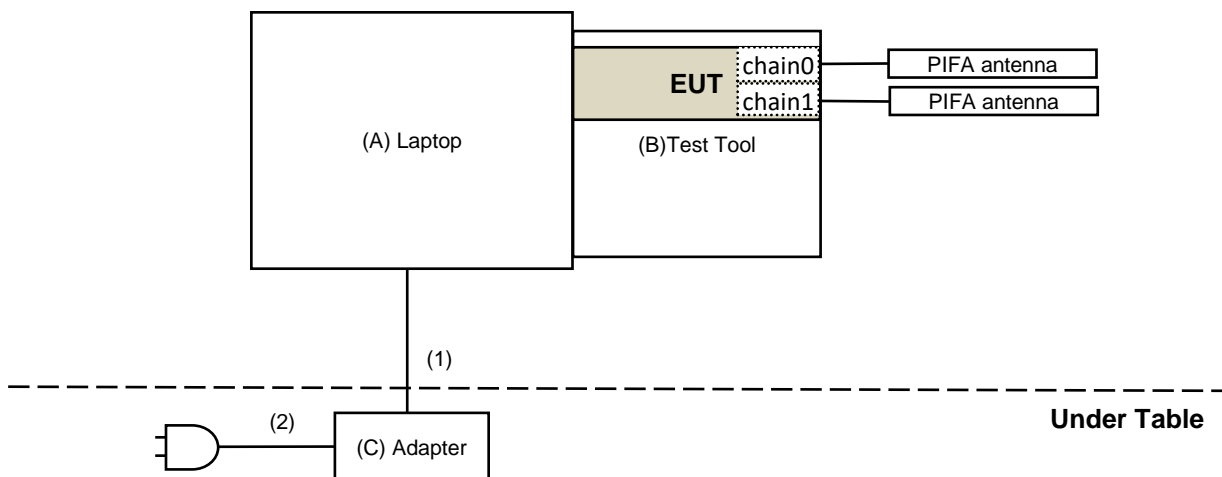


802.11be (EHT20) 106-tone RU

3.6 Test Program Used and Operation Descriptions

Controlling software (Wi-Fi :RTL8922A_PCIE_MP_Package_v2.0.22(120522)) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	DELL	E6530	9331GV1	N/A	Provided by Lab
B	Test Tool	Realtek	N/A	N/A	N/A	Supplied by applicant
C	Adapter	DELL	LA65NM130	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	0	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	MY54490260	2023/7/13	2024/7/12
Signal Analyzer R&S	FSV40	101042	2022/9/5 2023/9/5	2023/9/4 2024/9/4
		101544	2023/5/9	2024/5/8
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2023/9/4 ~ 2023/9/7

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Power Meter Anritsu	ML2495A	0842014	2023/5/5	2024/5/4
Pulse Power Sensor Anritsu	MA2411B	0738404	2023/5/5	2024/5/4
PXA Signal Analyzer Keysight	N9030A	MY54490260	2023/7/13	2024/7/12
Signal Analyzer R&S	FSV40	101042	2022/9/5 2023/9/5	2023/9/4 2024/9/4
		101544	2023/5/9	2024/5/8
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
USB Wideband Power Sensor Keysight	U2021XA	U2021XA_001	2023/6/6	2024/6/5

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2023/9/4 ~ 2023/9/7

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Source Schaffner	Proflin2105- 208NSG1007	55616	N/A	N/A
PXA Signal Analyzer Keysight	N9030A	MY54490260	2023/7/13	2024/7/12
Signal Analyzer R&S	FSV40	101042	2022/9/5 2023/9/5	2023/9/4 2024/9/4
		101544	2023/5/9	2024/5/8
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	MHU-225AU	920409	2023/6/26	2024/6/25

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2023/9/4 ~ 2023/9/7

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance SUHNER	65BNC-5001	E1-010789	2023/6/16	2024/6/15
EMI Test Receiver R&S	ESCS 30	100276	2023/4/20	2024/4/19
Fixed Attenuator STI	STI02-2200-10	NO.1	2022/9/14 2023/9/13	2023/9/13 2024/9/12
Isolation Transformer Erika Fiedler	D-65396	017	2022/9/8 2023/9/14	2023/9/7 2024/9/13
LISN EMCO	3825/2	9204-1964	2023/8/1	2024/7/31
LISN R&S	ENV216	101196	2023/5/22	2024/5/21
		101197	2023/7/12	2024/7/11
LISN Schwarzbeck	NNLK 8121	8121-731	2023/6/9	2024/6/8
		8121-00759	2023/8/21	2024/8/20
		8121-808	2023/5/2	2024/5/1
	NNLK 8129	8129229	2023/6/27	2024/6/26
RF Coaxial Cable PEWC	5D-FB	Cable-CO10-01	2023/2/8	2024/2/7
Software BVADT	Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Linkou Conduction 10.
2. Tested Date: 2023/8/22 & 2023/9/22

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
* Loop Antenna EMCI	LPA600	270	2021/9/2	2023/9/1
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2022/10/21	2023/10/20
Coupling / Decoupling Network Schwarzbeck	CDNE-M2	00097	2023/5/25	2024/5/24
	CDNE-M3	00091	2023/5/25	2024/5/24
MXE EMI Receiver Agilent	N9038A	MY51210129	2023/3/24	2024/3/23
		MY51210137	2023/6/5	2024/6/4
Preamplifier EMCI	EMC001340	980269	2023/6/27	2024/6/26
Preamplifier HP	8447D	2432A03504	2023/2/16	2024/2/15
RF Coaxial Cable Pacific	8D-FB	Cable-CH6-02	2023/6/27	2024/6/26
Signal Analyzer R&S	FSV40	101544	2023/5/9	2024/5/8
Software BVADT	Radiated_V8.7.08	N/A	N/A	N/A
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

- * The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA
- The test was performed in Linkou 966 Chamber 6 (CH 6).
- Tested Date: 2023/8/22

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	
Band Pass Filter Micro-Tronics	BRM17690	005	2023/5/25	2024/5/24	
Boresight antenna tower fixture BV	BAF-02	6	N/A	N/A	
High Pass Filter Wainwright	WHK 3.1/18G-10SS	SN 8	2023/5/25	2024/5/24	
Horn Antenna EMCO	3115	00028257	2022/11/13	2023/11/12	
Horn Antenna ETS-Lindgren	3117-PA	00215857	2022/11/13	2023/11/12	
Horn Antenna Schwarzbeck	BBHA 9170	212	2022/10/20	2023/10/19	
MXE EMI Receiver Agilent	N9038A	MY51210129	2023/3/24	2024/3/23	
		MY51210137	2023/6/5	2024/6/4	
Notch Filter Micro-Tronics	BRC50703-01	010	2023/5/25	2024/5/24	
Preamplifier EMCI	EMC184045B	EMC0126545	980076	2023/2/16	2024/2/15
		980175	2022/9/3	2023/9/2	
			2023/9/2	2024/9/1	
980235	2023/2/16	2024/2/15			
Preamplifier HP	8449B	3008A01201	2023/2/16	2024/2/15	
RF Coaxial Cable EMCI	EMC104	190801	2023/7/6	2024/7/5	
		2023/9/13	2024/9/12		
190804	2023/7/6	2024/7/5			
2023/9/13	2024/9/12				
RF Coaxial Cable EMEC	EM102-KMKM-3.5	EM102-KMKM-3.5-02	2022/9/27	2023/9/26	
RF Coaxial Cable HUBER+SUHNER	SF-104	Cable-CH6-01	2023/7/6	2024/7/5	
2023/9/13	2024/9/12				
Signal Analyzer R&S	FSV40	101042	2022/9/5	2023/9/4	
		2023/9/5	2024/9/4		
101544	2023/5/9	2024/5/8			
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A	
Tower ADT	AT100	0306	N/A	N/A	
Turn Table ADT	TT100	0306	N/A	N/A	

Notes:

1. The test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2023/8/5 ~ 2023/9/21

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 \leq 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 Frequency Stability

The frequency of the carrier signal shall be maintained within band of operation.

5.7 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.

5.8 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).

5.9 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)

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)

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)

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: 68.2 (dBµV/m) ^{*1}
	PK: 10 (dBm/MHz) ^{*2}	PK: 105.2 (dBµV/m) ^{*2}
	PK: 15.6 (dBm/MHz) ^{*3}	PK: 110.8 (dBµV/m) ^{*3}
	PK: 27 (dBm/MHz) ^{*4}	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.

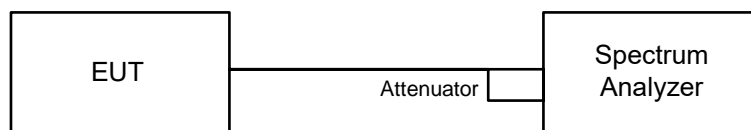
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

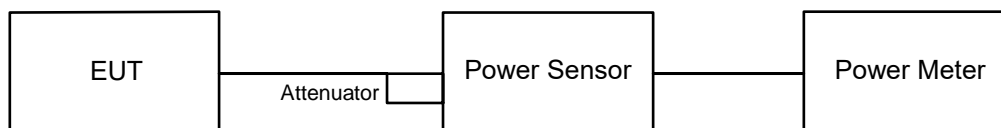


6.1.2 Test Procedure

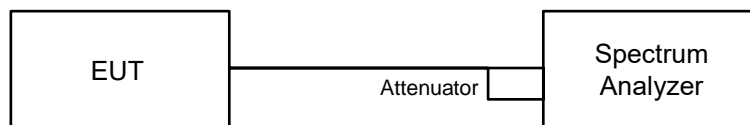
- a. Set RBW = approximately 1% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat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

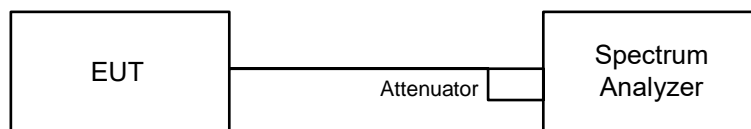
Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

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-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW \geq 1 MHz, Detector = RMS
- 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 $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

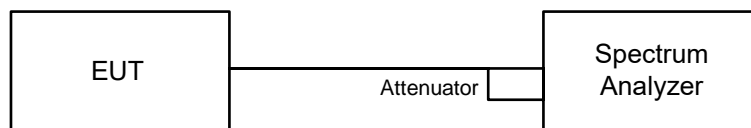
For specified measurement bandwidth 500 kHz:

Method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW \geq 1 MHz, Detector = RMS
- 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 $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log(1/\text{duty cycle})$.

6.4 6 dB Bandwidth

6.4.1 Test Setup

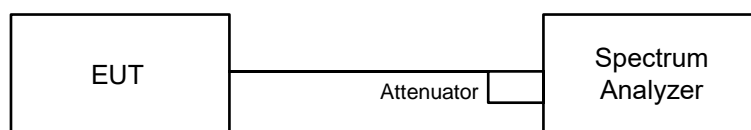


6.4.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- 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

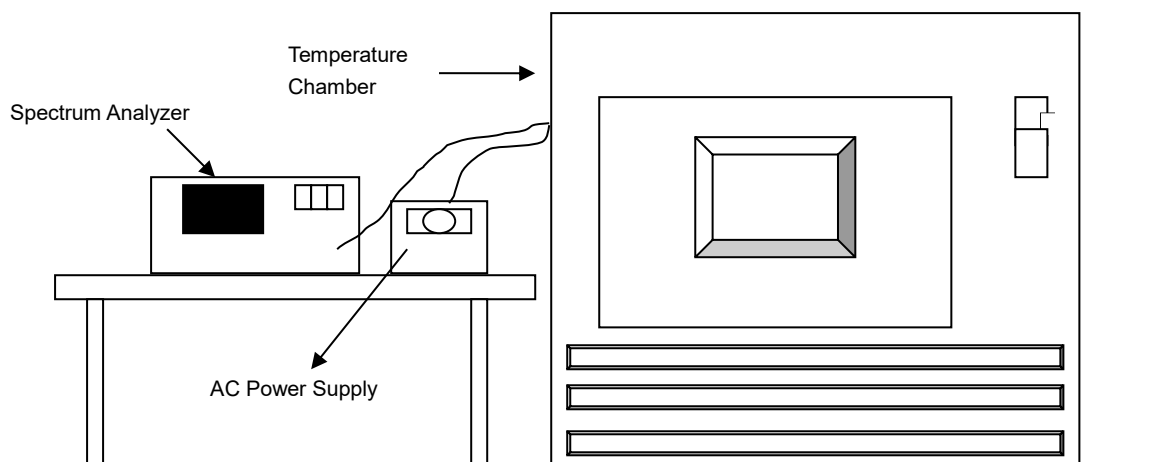


6.5.2 Test Procedure

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 Frequency Stability

6.6.1 Test Setup

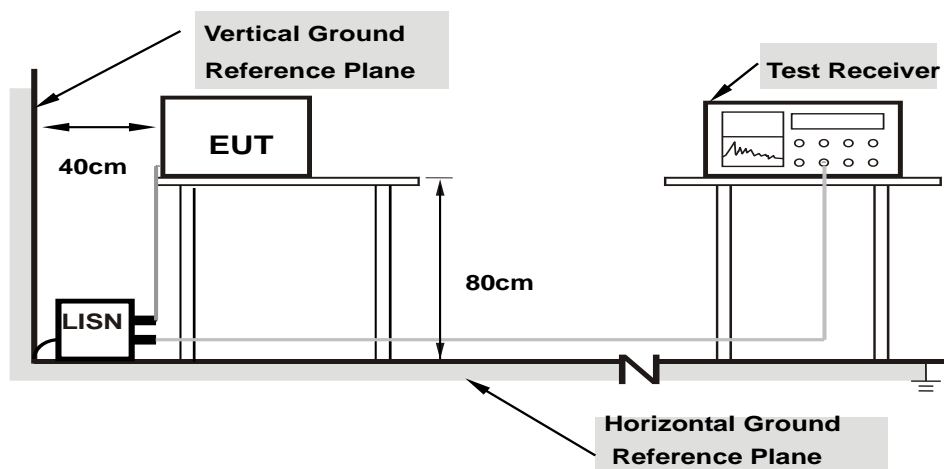


6.6.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

6.7 AC Power Conducted Emissions

6.7.1 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).

6.7.2 Test Procedure

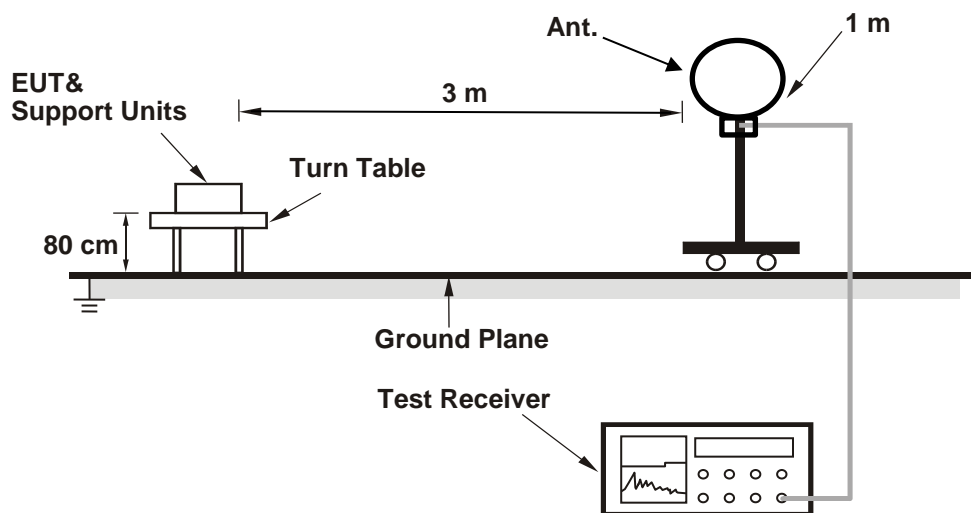
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

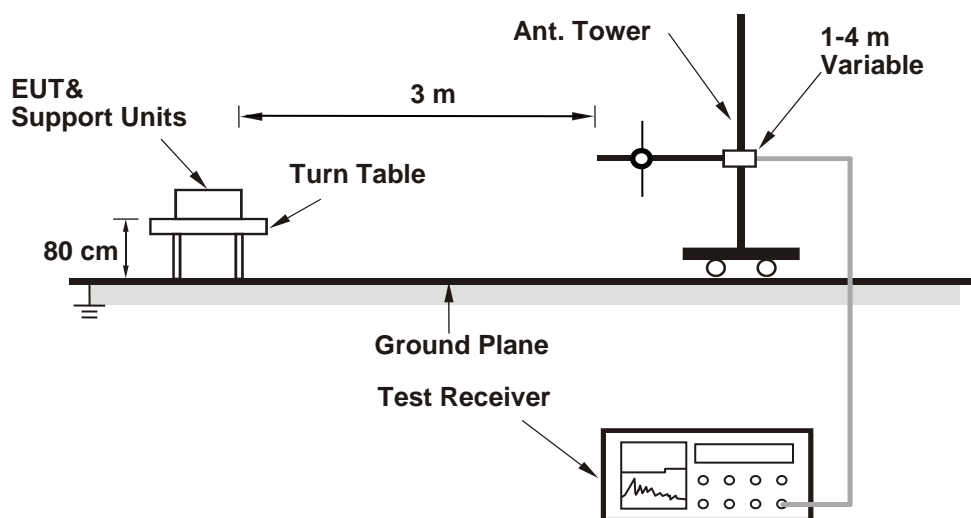
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.8.2 Test Procedure

For Radiated emission below 30 MHz

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. 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. 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

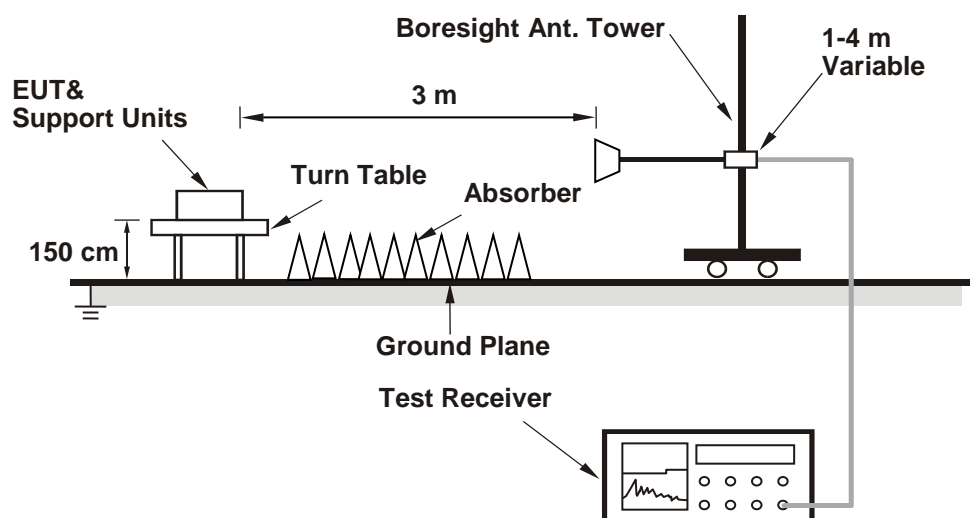
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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. 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.

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



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

6.9.2 Test Procedure

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

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

1Tx

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	35.08
60	5300	35.43
64	5320	28.31
100	5500	26
116	5580	28.68
140	5700	18.61
144 (U-NII-2C)	5720	19.9
144 (U-NII-3)	5720	9.47

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	35.08	26.45 > 24
60	5300	35.43	26.49 > 24
64	5320	28.31	25.51 > 24
100	5500	26.00	25.14 > 24
116	5580	28.68	25.57 > 24
140	5700	18.61	23.69 < 24
144 (U-NII-2C)	5720	19.90	23.98 < 24

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

802.11be (EHT20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	26.29
60	5300	26.32
64	5320	34.34
100	5500	20.6
116	5580	24.58
140	5700	20.44
144 (U-NII-2C)	5720	19.61
144 (U-NII-3)	5720	13.72

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	26.29	25.19 > 24
60	5300	26.32	25.2 > 24
64	5320	34.34	26.35 > 24
100	5500	20.60	24.13 > 24
116	5580	24.58	24.9 > 24
140	5700	20.44	24.1 > 24
144 (U-NII-2C)	5720	19.61	23.92 < 24

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

802.11be (EHT40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
54	5270	50.78
62	5310	41.12
102	5510	41.31
110	5550	63.38
134	5670	41.05
142 (U-NII-2C)	5710	45.43
142 (U-NII-3)	5710	6.68

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	50.78	28.05 > 24
62	5310	41.12	27.14 > 24
102	5510	41.31	27.16 > 24
110	5550	63.38	29.01 > 24
134	5670	41.05	27.13 > 24
142 (U-NII-2C)	5710	45.43	27.57 > 24

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

802.11be (EHT80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
58	5290	81.36
106	5530	81.35
122	5610	81.33
138 (U-NII-2C)	5690	75.69
138 (U-NII-3)	5690	5.64

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	81.36	30.1 > 24
106	5530	81.35	30.1 > 24
122	5610	81.33	30.1 > 24
138 (U-NII-2C)	5690	75.69	29.79 > 24

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

802.11be (EHT160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
50 (U-NII-1)	5250	82.86
50 (U-NII-2A)	5250	82.79
114	5570	166.05

Determined Output Power Limit

Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
50 (U-NII-2A)	5250	82.79	30.17	>	24
114	5570	166.05	33.2	>	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

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	19.54
60	5300	18.34
64	5320	19.7
100	5500	19.65
116	5580	18.39
140	5700	19.72
144 (U-NII-2C)	5720	14.24
144 (U-NII-3)	5720	5.37

Determined Output Power Limit

Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	19.54	23.9	<	24
60	5300	18.34	23.63	<	24
64	5320	19.70	23.94	<	24
100	5500	19.65	23.93	<	24
116	5580	18.39	23.64	<	24
140	5700	19.72	23.94	<	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) 52-tone RU

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	19.82
60	5300	18.55
64	5320	19.68
100	5500	19.63
116	5580	18.57
140	5700	19.59
144 (U-NII-2C)	5720	14.27
144 (U-NII-3)	5720	5.32

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	19.82	23.97 < 24
60	5300	18.55	23.68 < 24
64	5320	19.68	23.94 < 24
100	5500	19.63	23.92 < 24
116	5580	18.57	23.68 < 24
140	5700	19.59	23.92 < 24
144 (U-NII-2C)	5720	14.27	22.54 < 24

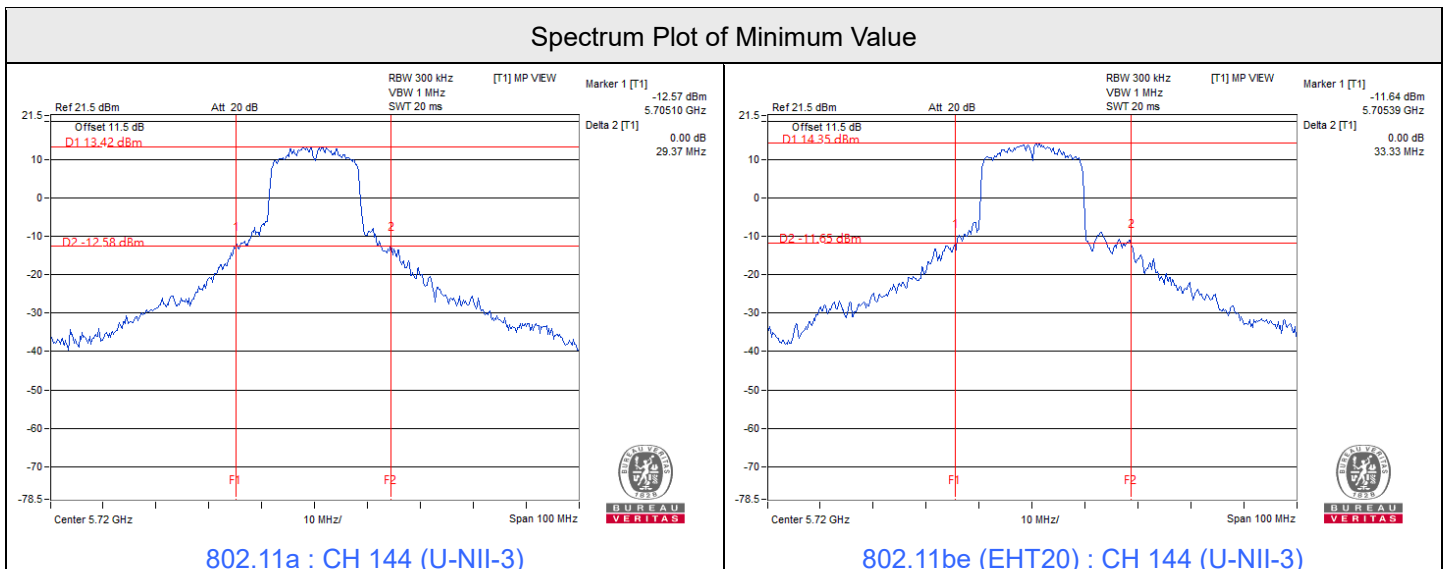
Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) 106-tone RU

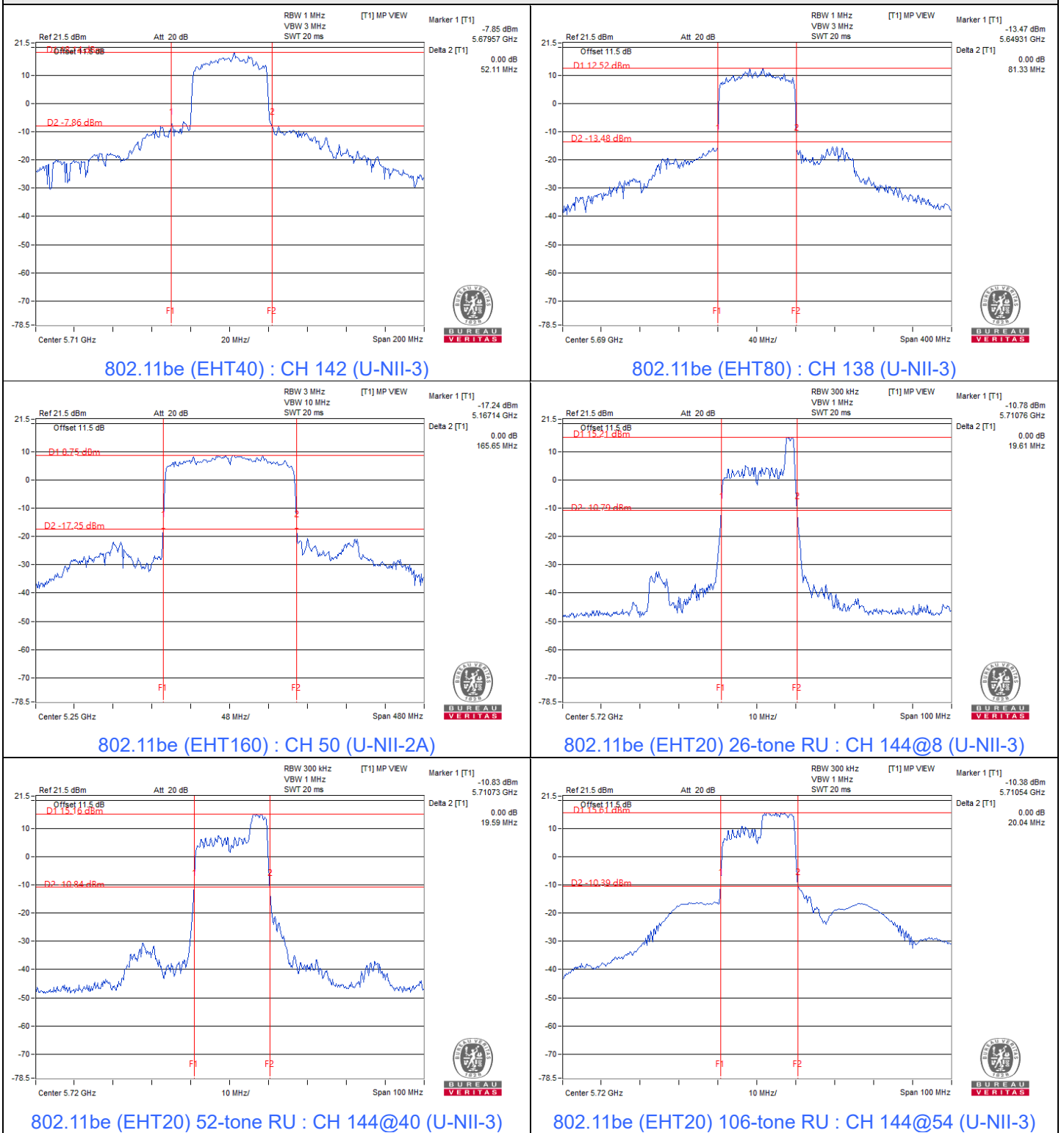
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	19.84
60	5300	19.75
64	5320	19.88
100	5500	19.78
116	5580	19.83
140	5700	19.86
144 (U-NII-2C)	5720	14.46
144 (U-NII-3)	5720	5.58

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	19.84	23.97 < 24
60	5300	19.75	23.95 < 24
64	5320	19.88	23.98 < 24
100	5500	19.78	23.96 < 24
116	5580	19.83	23.97 < 24
140	5700	19.86	23.97 < 24
144 (U-NII-2C)	5720	14.46	22.6 < 24

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



Spectrum Plot of Minimum Value



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

2Tx

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	18.49	18.86
60	5300	18.44	30.33
64	5320	18.47	18.65
100	5500	18.50	18.75
116	5580	18.47	18.75
140	5700	18.44	18.78
144 (U-NII-2C)	5720	14.38	14.40
144 (U-NII-3)	5720	4.23	4.33

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	18.49	23.66 < 24
60	5300	18.44	23.65 < 24
64	5320	18.47	23.66 < 24
100	5500	18.50	23.67 < 24
116	5580	18.47	23.66 < 24
140	5700	18.44	23.65 < 24
144 (U-NII-2C)	5720	14.38	22.57 < 24

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

802.11be (EHT20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.66	20.46
60	5300	20.43	20.50
64	5320	20.45	20.53
100	5500	20.42	20.53
116	5580	20.47	20.58
140	5700	20.47	20.58
144 (U-NII-2C)	5720	15.23	15.27
144 (U-NII-3)	5720	5.32	5.26

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.46	24.1 > 24
60	5300	20.43	24.1 > 24
64	5320	20.45	24.1 > 24
100	5500	20.42	24.1 > 24
116	5580	20.47	24.11 > 24
140	5700	20.47	24.11 > 24
144 (U-NII-2C)	5720	15.23	22.82 < 24

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

802.11be (EHT40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	41.18	41.23
62	5310	40.99	40.90
102	5510	41.26	41.13
110	5550	41.09	41.16
134	5670	41.13	41.21
142 (U-NII-2C)	5710	35.66	35.47
142 (U-NII-3)	5710	5.64	5.72

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	41.18	27.14 > 24
62	5310	40.90	27.11 > 24
102	5510	41.13	27.14 > 24
110	5550	41.09	27.13 > 24
134	5670	41.13	27.14 > 24
142 (U-NII-2C)	5710	35.47	26.49 > 24

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

802.11be (EHT80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	81.28	81.28
106	5530	81.13	81.25
122	5610	81.23	81.16
138 (U-NII-2C)	5690	75.51	75.56
138 (U-NII-3)	5690	5.60	5.57

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	81.28	30.09 > 24
106	5530	81.13	30.09 > 24
122	5610	81.16	30.09 > 24
138 (U-NII-2C)	5690	75.51	29.78 > 24

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

802.11be (EHT160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	82.96	82.81
50 (U-NII-2A)	5250	82.99	82.91
114	5570	166.32	166.19

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	82.91	30.18 > 24
114	5570	166.19	33.2 > 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

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.44	19.70
60	5300	18.25	18.34
64	5320	19.59	19.65
100	5500	19.45	19.62
116	5580	18.31	18.39
140	5700	19.45	19.47
144 (U-NII-2C)	5720	14.18	14.26
144 (U-NII-3)	5720	5.32	5.39

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	19.44	23.88 < 24
60	5300	18.25	23.61 < 24
64	5320	19.59	23.92 < 24
100	5500	19.45	23.88 < 24
116	5580	18.31	23.62 < 24
140	5700	19.45	23.88 < 24
144 (U-NII-2C)	5720	14.18	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-tone RU

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.50	19.67
60	5300	18.51	18.52
64	5320	19.59	19.57
100	5500	19.48	19.69
116	5580	18.50	18.54
140	5700	19.71	19.61
144 (U-NII-2C)	5720	14.25	14.28
144 (U-NII-3)	5720	5.34	5.35

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	19.50	23.9 < 24
60	5300	18.51	23.67 < 24
64	5320	19.57	23.91 < 24
100	5500	19.48	23.89 < 24
116	5580	18.50	23.67 < 24
140	5700	19.61	23.92 < 24
144 (U-NII-2C)	5720	14.25	22.53 < 24

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

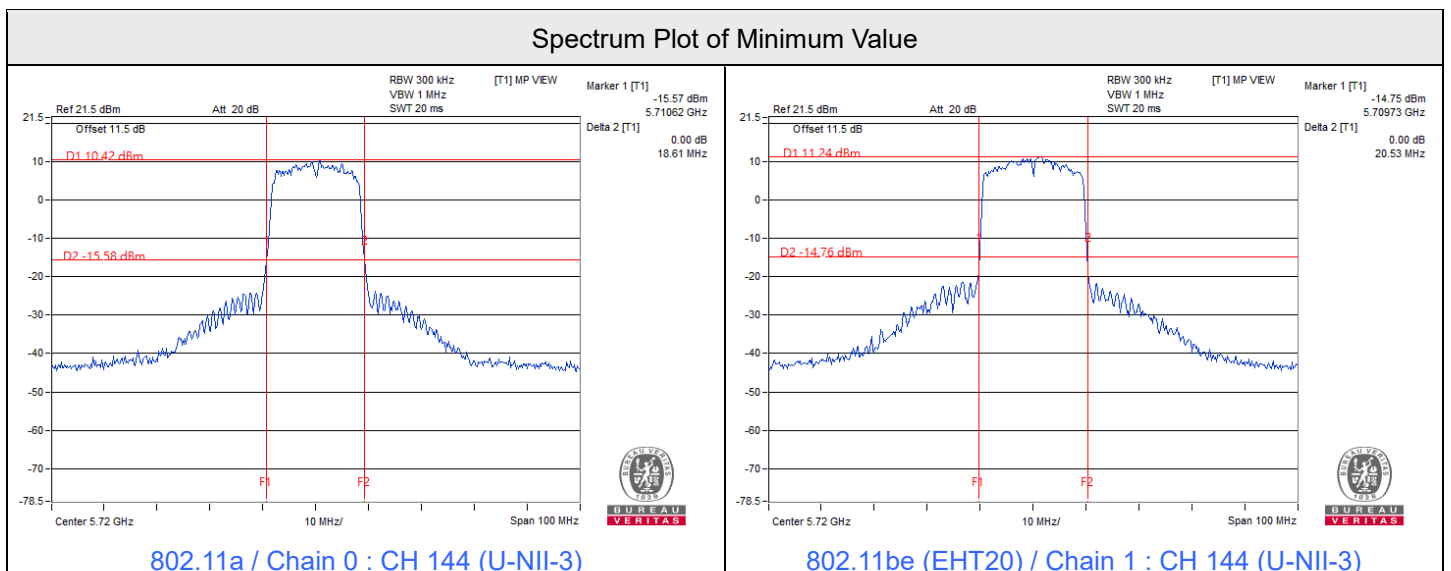


802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.75	19.88
60	5300	19.79	19.85
64	5320	19.76	19.81
100	5500	19.89	19.80
116	5580	19.76	19.76
140	5700	19.65	19.85
144 (U-NII-2C)	5720	14.32	14.38
144 (U-NII-3)	5720	5.36	5.36

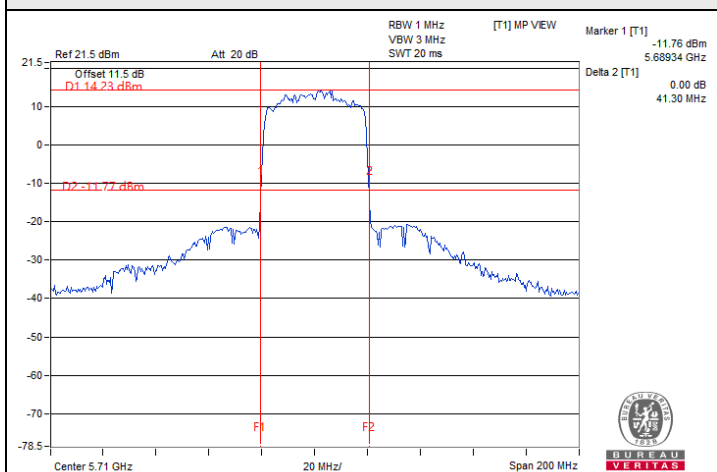
Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	19.75	23.95 < 24
60	5300	19.79	23.96 < 24
64	5320	19.76	23.95 < 24
100	5500	19.80	23.96 < 24
116	5580	19.76	23.95 < 24
140	5700	19.65	23.93 < 24
144 (U-NII-2C)	5720	14.32	22.55 < 24

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

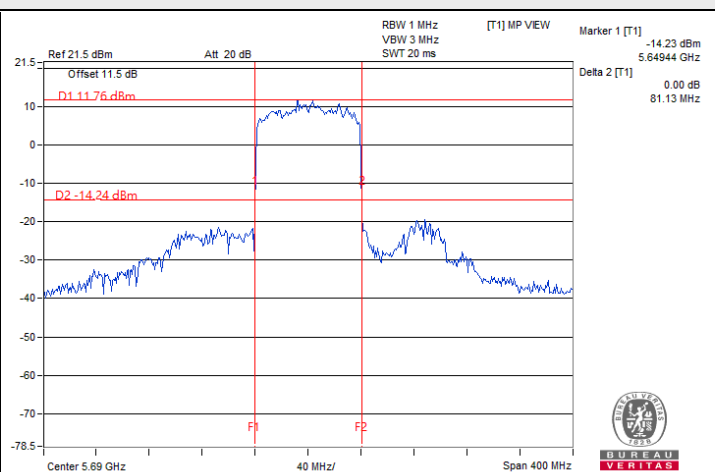




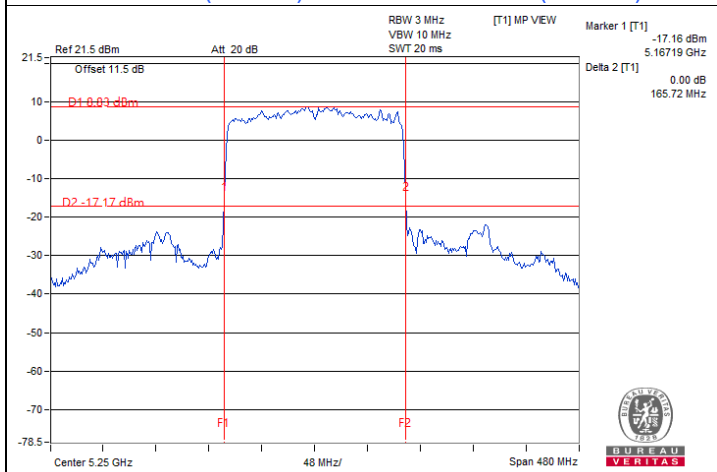
Spectrum Plot of Minimum Value



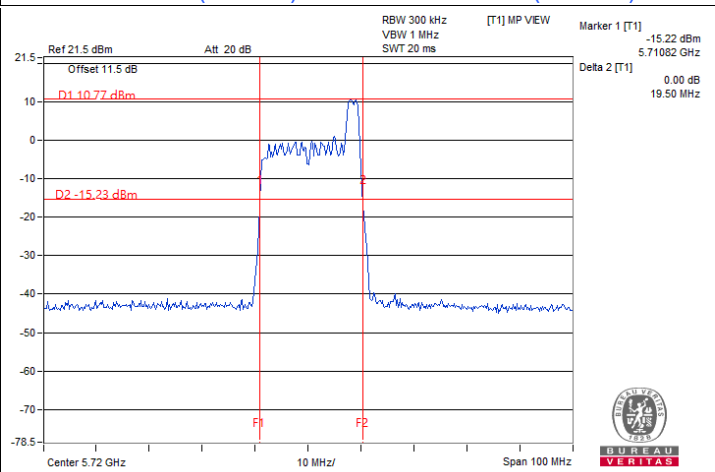
802.11be (EHT40) / Chain 0 : CH 142 (U-NII-3)



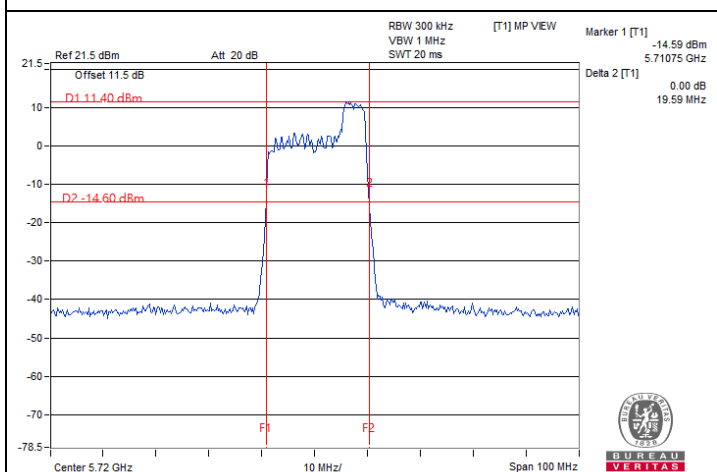
802.11be (EHT80) / Chain 1 : CH 138 (U-NII-3)



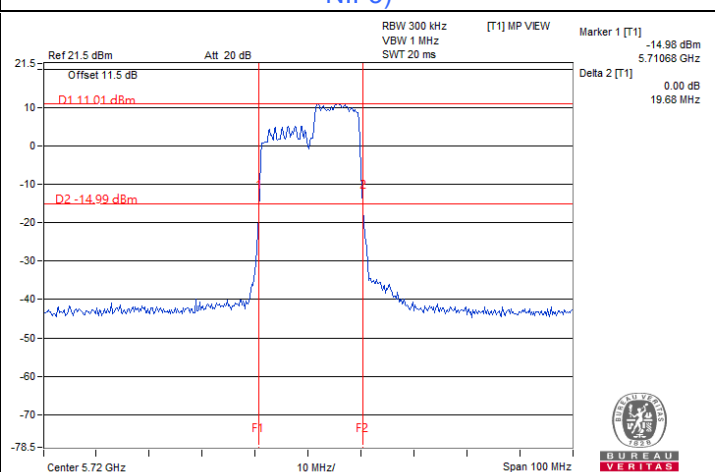
802.11be (EHT160) / Chain 1 : CH 50 (U-NII-1)



802.11be (EHT20) 26-tone RU / Chain 0 : CH 144@8 (U-NII-3)



802.11be (EHT20) 52-tone RU / Chain 0 : CH 144@40 (U-NII-3)



802.11be (EHT20) 106-tone RU / Chain 0 : CH 144@54 (U-NII-3)

- 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

1Tx

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	169.044	22.28	24	Pass
40	5200	172.584	22.37	24	Pass
48	5240	175.792	22.45	24	Pass
52	5260	174.985	22.43	24	Pass
60	5300	176.198	22.46	24	Pass
64	5320	91.411	19.61	24	Pass
100	5500	106.17	20.26	24	Pass
116	5580	163.682	22.14	24	Pass
140	5700	77.625	18.90	23.69	Pass
*144 (U-NII-2C)	5720	128.825	21.10	23.98	Pass
*144 (U-NII-3)	5720	23.174	13.65	30	Pass
149	5745	173.78	22.40	30	Pass
157	5785	174.985	22.43	30	Pass
165	5825	176.198	22.46	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	101.625	20.07	24	Pass
40	5200	170.216	22.31	24	Pass
48	5240	168.267	22.26	24	Pass
52	5260	165.577	22.19	24	Pass
60	5300	164.437	22.16	24	Pass
64	5320	82.985	19.19	24	Pass
100	5500	64.417	18.09	24	Pass
116	5580	165.959	22.20	24	Pass
140	5700	50.699	17.05	24	Pass
*144 (U-NII-2C)	5720	116.145	20.65	23.92	Pass
*144 (U-NII-3)	5720	24.946	13.97	30	Pass
149	5745	162.555	22.11	30	Pass
157	5785	165.196	22.18	30	Pass
165	5825	165.959	22.20	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
2. For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	63.68	18.04	24	Pass
46	5230	155.239	21.91	24	Pass
54	5270	147.571	21.69	24	Pass
62	5310	47.973	16.81	24	Pass
102	5510	52.602	17.21	24	Pass
110	5550	150.314	21.77	24	Pass
134	5670	76.384	18.83	24	Pass
*142 (U-NII-2C)	5710	126.765	21.03	24	Pass
*142 (U-NII-3)	5710	9.683	9.86	30	Pass
151	5755	154.17	21.88	30	Pass
159	5795	154.882	21.90	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	72.946	18.63	24	Pass
58	5290	58.21	17.65	24	Pass
106	5530	47.424	16.76	24	Pass
122	5610	70.469	18.48	24	Pass
*138 (U-NII-2C)	5690	74.473	18.72	24	Pass
*138 (U-NII-3)	5690	2.723	4.35	30	Pass
155	5775	72.444	18.60	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
*50 (U-NII-1)	5250	12.647	11.02	24	Pass
*50 (U-NII-2A)	5250	12.706	11.04	24	Pass
114	5570	23.496	13.71	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	104.954	20.21	24	Pass
40	5200	173.78	22.40	24	Pass
48	5240	171.791	22.35	24	Pass
52	5260	167.109	22.23	24	Pass
60	5300	168.655	22.27	24	Pass
64	5320	85.31	19.31	24	Pass
100	5500	66.988	18.26	24	Pass
116	5580	169.434	22.29	24	Pass
140	5700	52.24	17.18	24	Pass
*144 (U-NII-2C)	5720	119.124	20.76	23.92	Pass
*144 (U-NII-3)	5720	25.468	14.06	30	Pass
149	5745	165.577	22.19	30	Pass
157	5785	165.959	22.20	30	Pass
165	5825	176.604	22.47	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	65.917	18.19	24	Pass
46	5230	157.036	21.96	24	Pass
54	5270	156.315	21.94	24	Pass
62	5310	49.317	16.93	24	Pass
102	5510	53.827	17.31	24	Pass
110	5550	157.761	21.98	24	Pass
134	5670	78.524	18.95	24	Pass
*142 (U-NII-2C)	5710	130.017	21.14	24	Pass
*142 (U-NII-3)	5710	9.931	9.97	30	Pass
151	5755	155.239	21.91	30	Pass
159	5795	155.955	21.93	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	75.162	18.76	24	Pass
58	5290	60.395	17.81	24	Pass
106	5530	48.865	16.89	24	Pass
122	5610	72.778	18.62	24	Pass
*138 (U-NII-2C)	5690	76.56	18.84	24	Pass
*138 (U-NII-3)	5690	2.805	4.48	30	Pass
155	5775	74.131	18.70	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
*50 (U-NII-1)	5250	12.912	11.11	24	Pass
*50 (U-NII-2A)	5250	13.152	11.19	24	Pass
114	5570	24.155	13.83	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	15.241	11.83	24	Pass
40	5200	34.754	15.41	24	Pass
48	5240	34.594	15.39	24	Pass
52	5260	34.198	15.34	23.9	Pass
60	5300	34.834	15.42	23.63	Pass
64	5320	12.503	10.97	23.94	Pass
100	5500	9.908	9.96	23.93	Pass
116	5580	34.435	15.37	23.64	Pass
140	5700	7.047	8.48	23.94	Pass
*144 (U-NII-2C)	5720	0.02118	-16.74	22.53	Pass
*144 (U-NII-3)	5720	27.353	14.37	30	Pass
149	5745	161.808	22.09	30	Pass
157	5785	158.855	22.01	30	Pass
165	5825	160.325	22.05	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	31.117	14.93	24	Pass
40	5200	58.884	17.70	24	Pass
48	5240	57.81	17.62	24	Pass
52	5260	58.479	17.67	23.97	Pass
60	5300	58.884	17.70	23.68	Pass
64	5320	25.003	13.98	23.94	Pass
100	5500	19.861	12.98	23.92	Pass
116	5580	59.02	17.71	23.68	Pass
140	5700	12.942	11.12	23.92	Pass
*144 (U-NII-2C)	5720	0.3334	-4.77	22.54	Pass
*144 (U-NII-3)	5720	48.417	16.85	30	Pass
149	5745	158.489	22.00	30	Pass
157	5785	160.325	22.05	30	Pass
165	5825	159.588	22.03	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	54.828	17.39	24	Pass
40	5200	121.06	20.83	24	Pass
48	5240	120.504	20.81	24	Pass
52	5260	121.06	20.83	23.97	Pass
60	5300	120.226	20.80	23.95	Pass
64	5320	43.053	16.34	23.98	Pass
100	5500	35.892	15.55	23.96	Pass
116	5580	119.124	20.76	23.97	Pass
140	5700	25.235	14.02	23.97	Pass
*144 (U-NII-2C)	5720	51.05	17.08	22.6	Pass
*144 (U-NII-3)	5720	57.28	17.58	30	Pass
149	5745	161.436	22.08	30	Pass
157	5785	158.855	22.01	30	Pass
165	5825	160.694	22.06	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	15.776	11.98	24	Pass
40	5200	35.727	15.53	24	Pass
48	5240	35.318	15.48	24	Pass
52	5260	35.156	15.46	23.9	Pass
60	5300	35.563	15.51	23.63	Pass
64	5320	12.912	11.11	23.94	Pass
100	5500	10.186	10.08	23.93	Pass
116	5580	34.995	15.44	23.64	Pass
140	5700	7.278	8.62	23.94	Pass
*144 (U-NII-2C)	5720	0.02178	-16.62	22.53	Pass
*144 (U-NII-3)	5720	28.184	14.50	30	Pass
149	5745	162.555	22.11	30	Pass
157	5785	160.694	22.06	30	Pass
165	5825	165.577	22.19	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	31.989	15.05	24	Pass
40	5200	60.534	17.82	24	Pass
48	5240	59.704	17.76	24	Pass
52	5260	60.117	17.79	23.97	Pass
60	5300	60.395	17.81	23.68	Pass
64	5320	25.882	14.13	23.94	Pass
100	5500	20.512	13.12	23.92	Pass
116	5580	60.674	17.83	23.68	Pass
140	5700	13.305	11.24	23.92	Pass
*144 (U-NII-2C)	5720	0.3436	-4.64	22.54	Pass
*144 (U-NII-3)	5720	50.003	16.99	30	Pass
149	5745	163.682	22.14	30	Pass
157	5785	162.555	22.11	30	Pass
165	5825	165.196	22.18	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

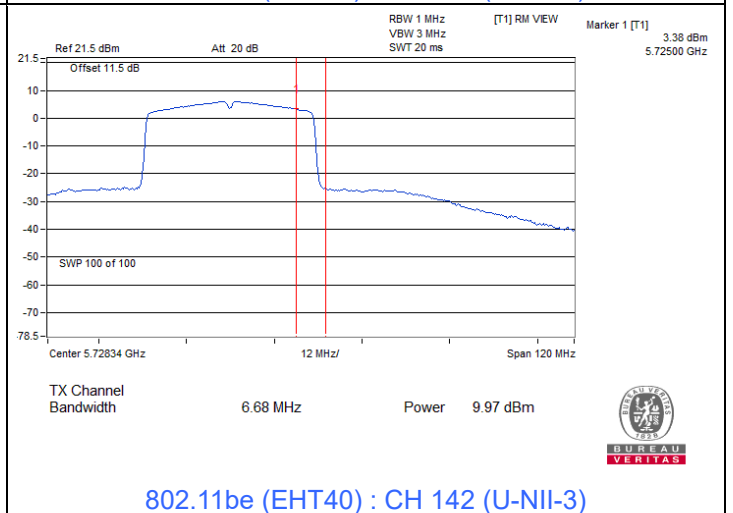
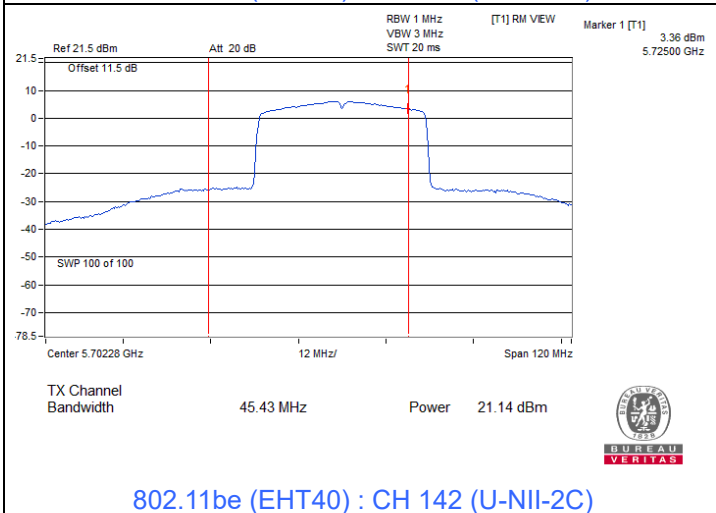
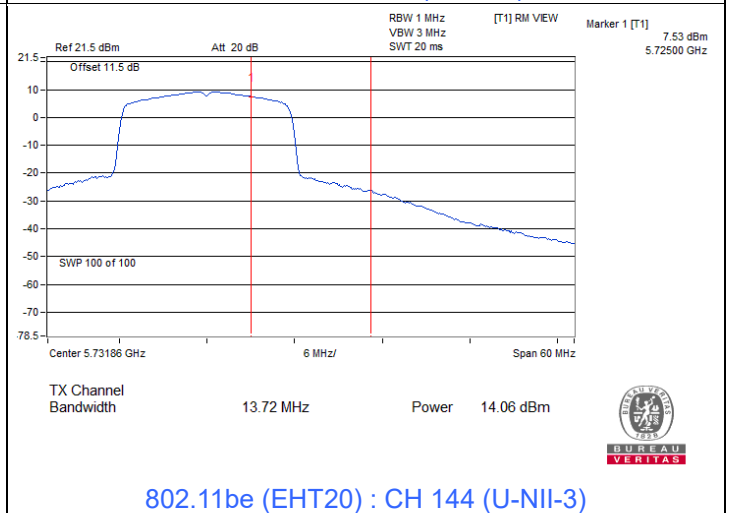
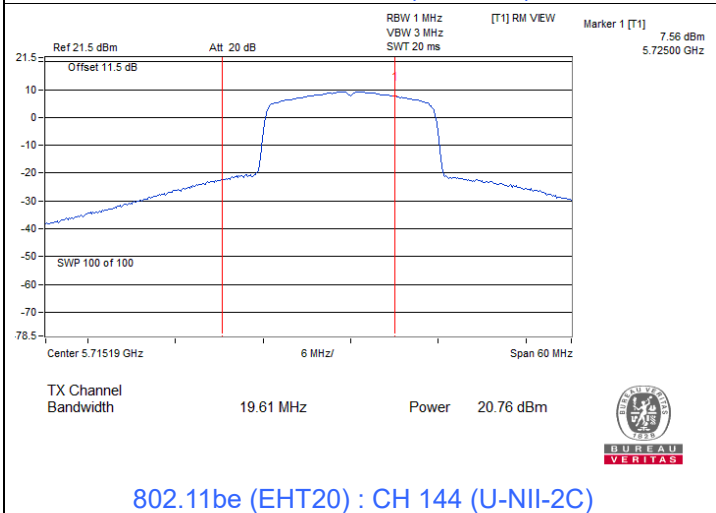
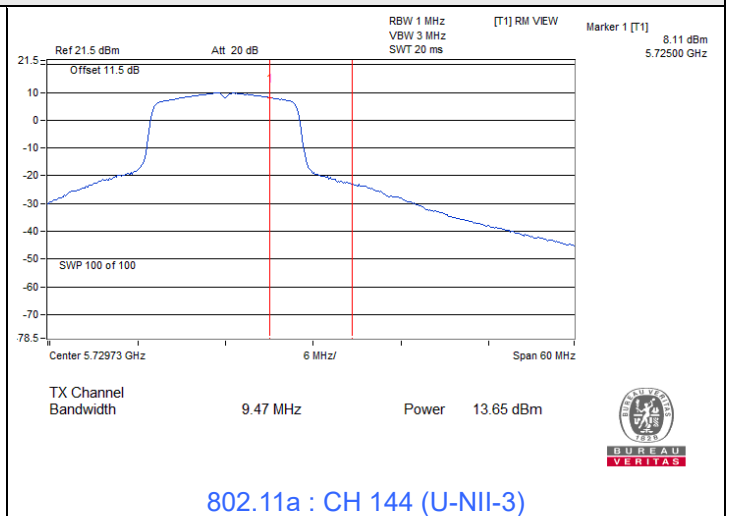
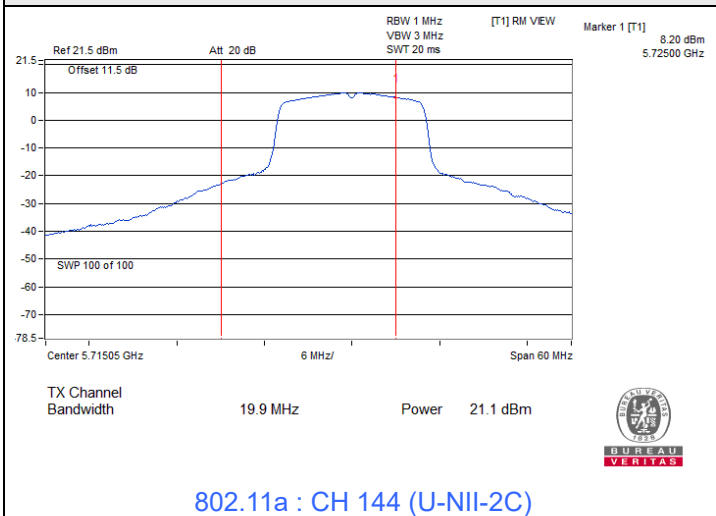
802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	56.364	17.51	24	Pass
40	5200	124.165	20.94	24	Pass
48	5240	124.738	20.96	24	Pass
52	5260	125.026	20.97	23.97	Pass
60	5300	123.595	20.92	23.95	Pass
64	5320	44.259	16.46	23.98	Pass
100	5500	37.068	15.69	23.96	Pass
116	5580	123.027	20.90	23.97	Pass
140	5700	26.182	14.18	23.97	Pass
*144 (U-NII-2C)	5720	52.481	17.20	22.6	Pass
*144 (U-NII-3)	5720	59.156	17.72	30	Pass
149	5745	161.808	22.09	30	Pass
157	5785	158.855	22.01	30	Pass
165	5825	161.065	22.07	30	Pass

Notes:

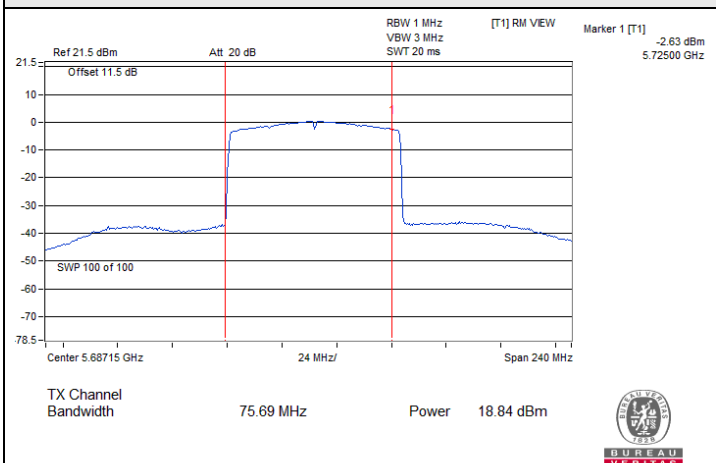
- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

Spectrum Plot for channel straddling

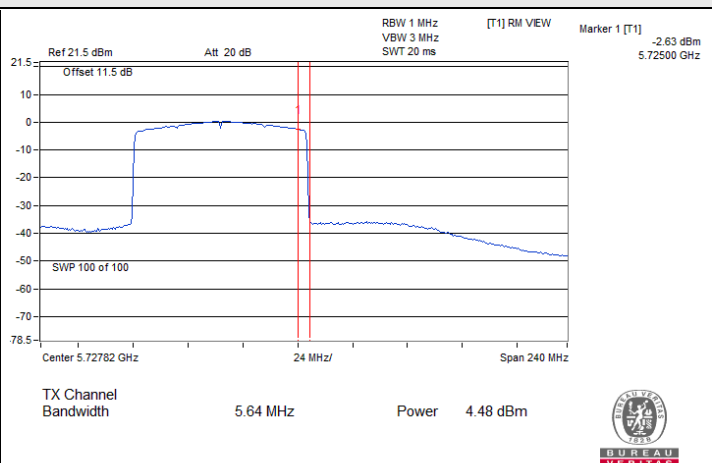




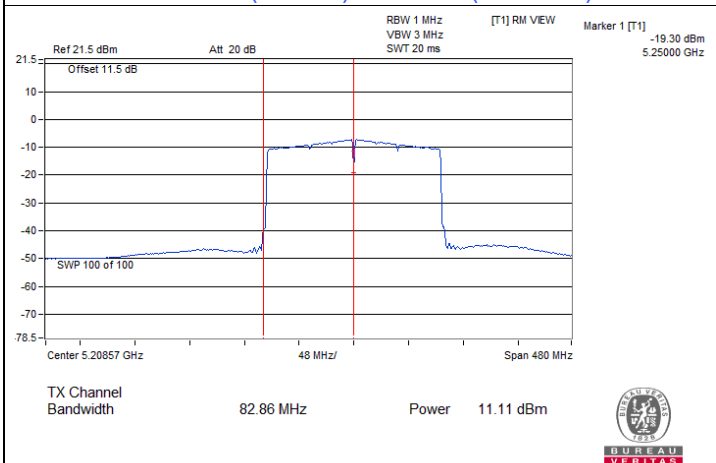
Spectrum Plot for channel straddling



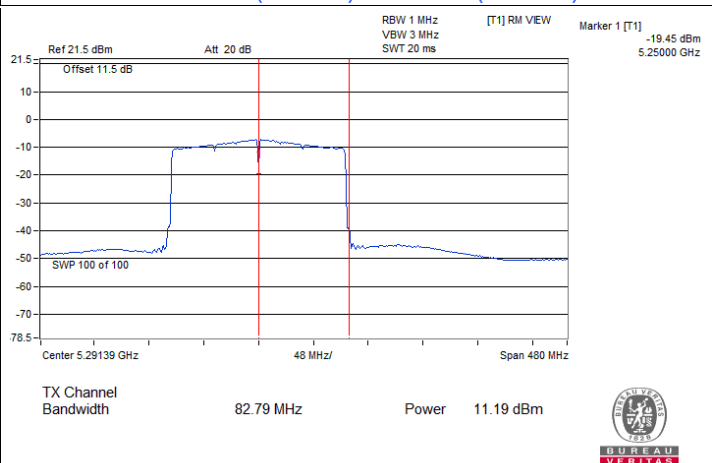
802.11be (EHT80) : CH 138 (U-NII-2C)



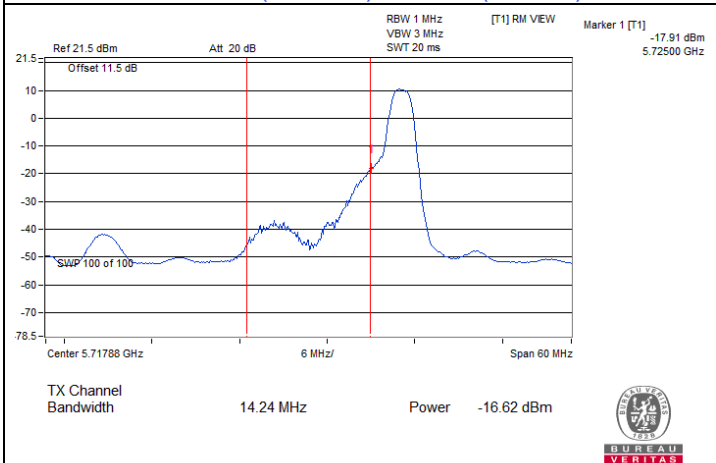
802.11be (EHT80) : CH 138 (U-NII-3)



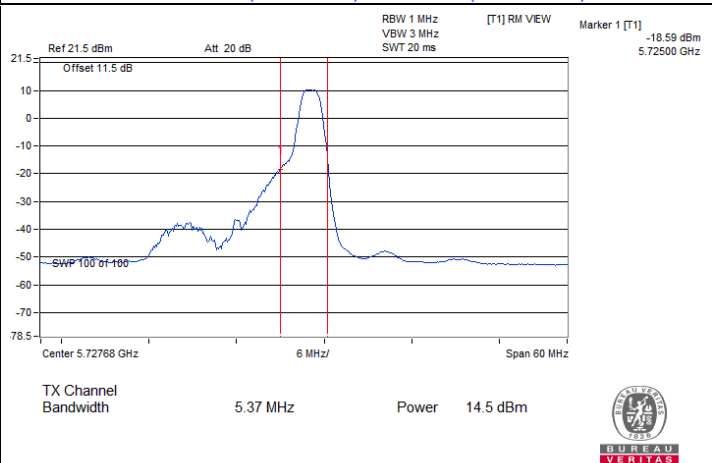
802.11be (EHT160) : CH 50 (U-NII-1)



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

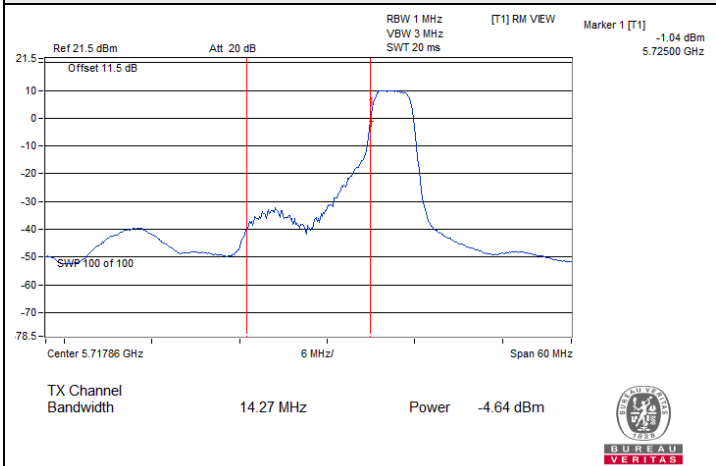


802.11be (EHT20) 26-tone RU : CH 144@8 (U-NII-2C)

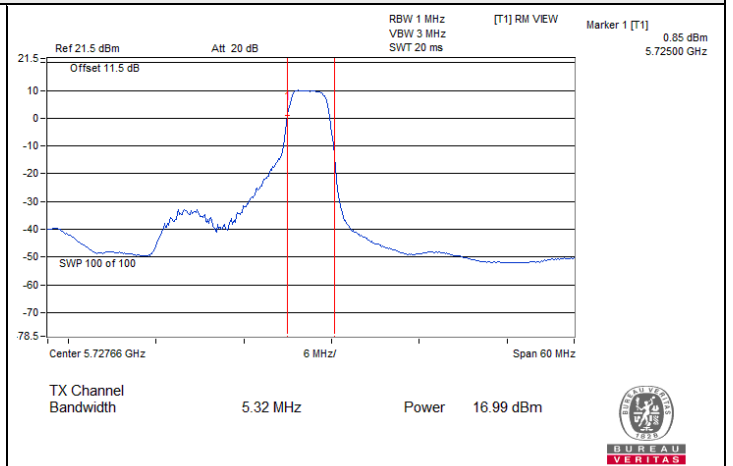


802.11be (EHT20) 26-tone RU : CH 144@8 (U-NII-3)

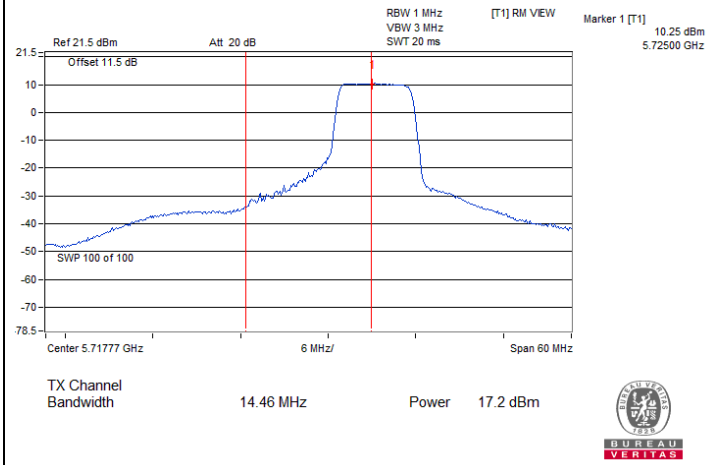
Spectrum Plot for channel straddling



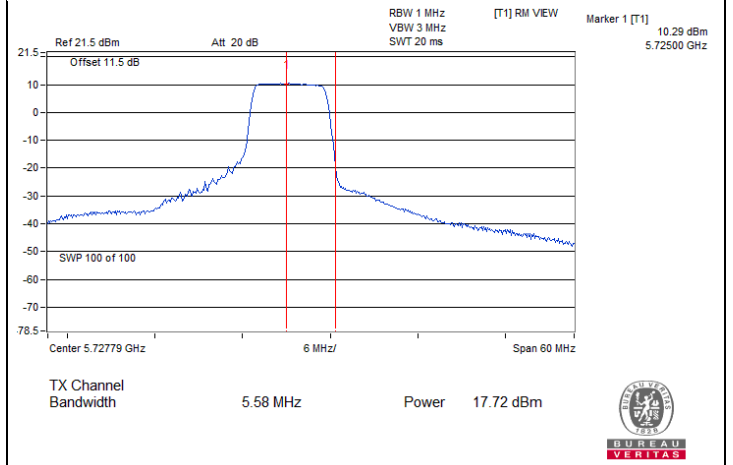
802.11be (EHT20) 52-tone RU : CH 144@40 (U-NII-2C)



802.11be (EHT20) 52-tone RU : CH 144@40 (U-NII-3)



802.11be (EHT20) 106-tone RU : CH 144@54 (U-NII-2C)



802.11be (EHT20) 106-tone RU : CH 144@54 (U-NII-3)

2Tx

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.18	18.72	140.239	21.47	24	Pass
40	5200	18.13	18.65	138.295	21.41	24	Pass
48	5240	18.15	18.64	138.427	21.41	24	Pass
52	5260	18.20	18.67	139.69	21.45	23.66	Pass
60	5300	18.21	18.46	136.367	21.35	23.65	Pass
64	5320	18.27	18.62	139.921	21.46	23.66	Pass
100	5500	18.25	18.74	141.651	21.51	23.67	Pass
116	5580	18.26	18.66	140.44	21.47	23.66	Pass
140	5700	18.14	18.42	134.665	21.29	23.65	Pass
*144 (U-NII-2C)	5720	17.17	17.26	105.33	20.23	22.57	Pass
*144 (U-NII-3)	5720	9.76	9.73	18.86	12.76	30	Pass
149	5745	22.19	22.46	341.775	25.34	30	Pass
157	5785	22.22	22.47	343.329	25.36	30	Pass
165	5825	22.17	22.45	340.609	25.32	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.29	18.70	141.584	21.51	24	Pass
40	5200	18.19	18.67	139.538	21.45	24	Pass
48	5240	18.24	18.71	140.983	21.49	24	Pass
52	5260	18.42	18.60	141.946	21.52	24	Pass
60	5300	18.44	18.70	143.954	21.58	24	Pass
64	5320	18.39	18.60	141.468	21.51	24	Pass
100	5500	17.99	18.25	129.785	21.13	24	Pass
116	5580	18.30	18.70	141.739	21.51	24	Pass
140	5700	16.10	16.26	83.005	19.19	24	Pass
*144 (U-NII-2C)	5720	17.19	17.60	109.904	20.41	22.82	Pass
*144 (U-NII-3)	5720	10.53	10.82	23.376	13.69	30	Pass
149	5745	22.09	22.33	332.81	25.22	30	Pass
157	5785	22.04	22.28	329	25.17	30	Pass
165	5825	22.08	22.28	330.48	25.19	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	18.64	18.91	150.918	21.79	24	Pass
46	5230	18.63	18.95	151.469	21.80	24	Pass
54	5270	18.70	19.02	153.93	21.87	24	Pass
62	5310	17.84	17.88	122.19	20.87	24	Pass
102	5510	16.07	16.21	82.241	19.15	24	Pass
110	5550	18.60	18.71	146.746	21.67	24	Pass
134	5670	17.52	17.59	113.905	20.57	24	Pass
*142 (U-NII-2C)	5710	18.04	18.24	130.36	21.15	24	Pass
*142 (U-NII-3)	5710	6.95	7.09	10.071	10.03	30	Pass
151	5755	22.01	22.17	323.671	25.10	30	Pass
159	5795	22.02	22.23	326.33	25.14	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	18.13	18.38	133.878	21.27	24	Pass
58	5290	17.39	17.50	111.062	20.46	24	Pass
106	5530	15.79	15.86	76.479	18.84	24	Pass
122	5610	16.93	17.04	99.9	20.00	24	Pass
*138 (U-NII-2C)	5690	17.89	17.68	120.132	20.80	24	Pass
*138 (U-NII-3)	5690	3.41	3.26	4.311	6.35	30	Pass
155	5775	18.13	18.19	130.93	21.17	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	10.67	10.78	23.636	13.74	24	Pass
*50 (U-NII-2A)	5250	10.85	10.80	24.185	13.84	24	Pass
114	5570	13.44	13.57	44.831	16.52	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.42	18.85	146.239	21.65	24	Pass
40	5200	18.34	18.79	143.917	21.58	24	Pass
48	5240	18.39	18.81	145.057	21.62	24	Pass
52	5260	18.56	18.74	146.596	21.66	24	Pass
60	5300	18.55	18.80	147.472	21.69	24	Pass
64	5320	18.53	18.70	145.416	21.63	24	Pass
100	5500	18.11	18.37	133.421	21.25	24	Pass
116	5580	18.45	18.83	146.368	21.65	24	Pass
140	5700	16.22	16.37	85.23	19.31	24	Pass
*144 (U-NII-2C)	5720	17.30	17.71	112.723	20.52	22.82	Pass
*144 (U-NII-3)	5720	10.67	10.96	24.142	13.83	30	Pass
149	5745	22.04	22.45	335.748	25.26	30	Pass
157	5785	22.06	22.41	334.875	25.25	30	Pass
165	5825	22.02	22.43	334.206	25.24	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	18.65	18.97	152.168	21.82	24	Pass
46	5230	18.71	18.98	153.37	21.86	24	Pass
54	5270	18.80	18.94	154.201	21.88	24	Pass
62	5310	17.97	18.03	126.194	21.01	24	Pass
102	5510	16.22	16.31	84.636	19.28	24	Pass
110	5550	18.74	18.85	151.553	21.81	24	Pass
134	5670	17.63	17.69	116.692	20.67	24	Pass
*142 (U-NII-2C)	5710	18.16	18.38	134.329	21.28	24	Pass
*142 (U-NII-3)	5710	7.08	7.24	10.402	10.17	30	Pass
151	5755	22.13	22.31	333.521	25.23	30	Pass
159	5795	22.14	22.35	335.472	25.26	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	18.26	18.53	138.274	21.41	24	Pass
58	5290	17.53	17.64	114.7	20.60	24	Pass
106	5530	15.91	15.98	78.622	18.96	24	Pass
122	5610	17.08	17.17	103.17	20.14	24	Pass
*138 (U-NII-2C)	5690	18.04	17.82	124.214	20.94	24	Pass
*138 (U-NII-3)	5690	3.56	3.39	4.453	6.49	30	Pass
155	5775	18.25	18.32	134.755	21.30	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	10.82	10.89	24.353	13.87	24	Pass
*50 (U-NII-2A)	5250	10.97	10.95	24.948	13.97	24	Pass
114	5570	13.58	13.71	46.3	16.66	24	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 26-tone RU CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	10.24	10.31	21.308	13.29	24	Pass
40	5200	10.14	10.47	21.471	13.32	24	Pass
48	5240	10.22	10.45	21.611	13.35	24	Pass
52	5260	10.23	10.51	21.79	13.38	23.88	Pass
60	5300	10.14	10.46	21.445	13.31	23.61	Pass
64	5320	10.22	10.51	21.766	13.38	23.92	Pass
100	5500	10.10	10.21	20.728	13.17	23.88	Pass
116	5580	10.30	10.47	21.858	13.40	23.62	Pass
140	5700	8.16	8.18	13.123	11.18	23.88	Pass
*144 (U-NII-2C)	5720	-20.86	-19.73	0.018845	-17.25	22.51	Pass
*144 (U-NII-3)	5720	9.47	9.96	18.759	12.73	30	Pass
149	5745	22.09	22.20	327.767	25.16	30	Pass
157	5785	22.04	22.23	327.065	25.15	30	Pass
165	5825	22.06	22.24	328.188	25.16	30	Pass

Notes:

1 * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 . and use spectrum analyzer test , the duty factor was included in the total power.

2 Directional gain is the maximum gain of antennas.

3 For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

4 For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

5 For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

6 For U-NII-3, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 52-tone RU CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	13.25	13.30	42.515	16.29	24	Pass
40	5200	13.26	13.34	42.761	16.31	24	Pass
48	5240	13.15	13.29	41.984	16.23	24	Pass
52	5260	13.22	13.26	42.173	16.25	23.9	Pass
60	5300	13.23	13.29	42.368	16.27	23.67	Pass
64	5320	13.18	13.32	42.275	16.26	23.91	Pass
100	5500	13.07	13.30	41.656	16.20	23.89	Pass
116	5580	13.18	13.25	41.932	16.23	23.67	Pass
140	5700	10.94	10.97	24.919	13.97	23.92	Pass
*144 (U-NII-2C)	5720	-9.09	-9.25	0.2422	-6.16	22.53	Pass
*144 (U-NII-3)	5720	12.95	12.76	38.604	15.87	30	Pass
149	5745	22.04	22.11	322.511	25.09	30	Pass
157	5785	22.05	22.21	326.666	25.14	30	Pass
165	5825	22.04	22.12	322.885	25.09	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 106-tone RU CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	16.26	16.31	85.023	19.30	24	Pass
40	5200	16.19	16.30	84.249	19.26	24	Pass
48	5240	16.20	16.28	84.149	19.25	24	Pass
52	5260	16.19	16.28	84.053	19.25	23.95	Pass
60	5300	16.17	16.24	83.473	19.22	23.96	Pass
64	5320	16.20	16.26	83.954	19.24	23.95	Pass
100	5500	16.17	16.33	84.354	19.26	23.96	Pass
116	5580	16.13	16.29	83.58	19.22	23.95	Pass
140	5700	13.73	13.88	48.039	16.82	23.93	Pass
*144 (U-NII-2C)	5720	12.46	12.25	34.408	15.37	22.55	Pass
*144 (U-NII-3)	5720	12.85	12.57	37.347	15.72	30	Pass
149	5745	22.02	22.16	323.658	25.10	30	Pass
157	5785	22.03	22.16	324.025	25.11	30	Pass
165	5825	22.06	22.20	326.653	25.14	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 26-tone RU CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	10.37	10.44	21.956	13.42	24	Pass
40	5200	10.29	10.59	22.146	13.45	24	Pass
48	5240	10.36	10.57	22.267	13.48	24	Pass
52	5260	10.38	10.62	22.449	13.51	23.88	Pass
60	5300	10.26	10.61	22.125	13.45	23.61	Pass
64	5320	10.34	10.63	22.375	13.50	23.92	Pass
100	5500	10.26	10.34	21.431	13.31	23.88	Pass
116	5580	10.44	10.60	22.548	13.53	23.62	Pass
140	5700	8.28	8.31	13.506	11.31	23.88	Pass
*144 (U-NII-2C)	5720	-20.73	-19.61	0.019392	-17.12	22.51	Pass
*144 (U-NII-3)	5720	9.58	10.11	19.335	12.86	30	Pass
149	5745	22.11	22.34	333.951	25.24	30	Pass
157	5785	22.08	22.37	334.02	25.24	30	Pass
165	5825	22.02	22.36	331.408	25.20	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 52-tone RU CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	13.37	13.42	43.706	16.41	24	Pass
40	5200	13.38	13.46	43.959	16.43	24	Pass
48	5240	13.29	13.44	43.41	16.38	24	Pass
52	5260	13.36	13.40	43.555	16.39	23.9	Pass
60	5300	13.38	13.42	43.756	16.41	23.67	Pass
64	5320	13.33	13.43	43.557	16.39	23.91	Pass
100	5500	13.19	13.45	42.976	16.33	23.89	Pass
116	5580	13.31	13.41	43.357	16.37	23.67	Pass
140	5700	11.07	11.11	25.706	14.10	23.92	Pass
*144 (U-NII-2C)	5720	-8.98	-9.14	0.2484	-6.05	22.53	Pass
*144 (U-NII-3)	5720	13.07	12.90	39.775	16.00	30	Pass
149	5745	22.16	22.24	331.931	25.21	30	Pass
157	5785	22.09	22.33	332.81	25.22	30	Pass
165	5825	22.06	22.23	327.803	25.16	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) 106-tone RU CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	16.38	16.42	87.304	19.41	24	Pass
40	5200	16.33	16.45	87.111	19.40	24	Pass
48	5240	16.31	16.41	86.508	19.37	24	Pass
52	5260	16.35	16.40	86.803	19.39	23.95	Pass
60	5300	16.28	16.39	86.013	19.35	23.96	Pass
64	5320	16.31	16.41	86.508	19.37	23.95	Pass
100	5500	16.29	16.44	86.615	19.38	23.96	Pass
116	5580	16.27	16.42	86.217	19.36	23.95	Pass
140	5700	13.89	14.03	49.784	16.97	23.93	Pass
*144 (U-NII-2C)	5720	12.59	12.38	35.453	15.50	22.55	Pass
*144 (U-NII-3)	5720	12.96	12.70	38.391	15.84	30	Pass
149	5745	22.04	22.28	329	25.17	30	Pass
157	5785	22.06	22.31	330.91	25.20	30	Pass
165	5825	22.08	22.33	332.437	25.22	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.29	18.70	141.584	21.51	21.99	Pass
40	5200	18.19	18.67	139.538	21.45	21.99	Pass
48	5240	18.24	18.71	140.983	21.49	21.99	Pass
52	5260	18.42	18.60	141.946	21.52	21.99	Pass
60	5300	18.44	18.70	143.954	21.58	21.99	Pass
64	5320	18.39	18.60	141.468	21.51	21.99	Pass
100	5500	17.99	18.25	129.785	21.13	21.99	Pass
116	5580	18.30	18.70	141.739	21.51	21.99	Pass
140	5700	16.10	16.26	83.005	19.19	21.99	Pass
*144 (U-NII-2C)	5720	17.19	17.60	109.904	20.41	21.99	Pass
*144 (U-NII-3)	5720	10.53	10.82	23.376	13.69	27.99	Pass
149	5745	22.09	22.33	332.81	25.22	27.99	Pass
157	5785	22.04	22.28	329	25.17	27.99	Pass
165	5825	22.08	22.28	330.48	25.19	27.99	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.01-6) = 21.99 dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.01-6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.01-6)].
- For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.01-6) = 27.99 dBm.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	18.64	18.91	150.918	21.79	21.99	Pass
46	5230	18.63	18.95	151.469	21.80	21.99	Pass
54	5270	18.70	19.02	153.93	21.87	21.99	Pass
62	5310	17.84	17.88	122.19	20.87	21.99	Pass
102	5510	16.07	16.21	82.241	19.15	21.99	Pass
110	5550	18.60	18.71	146.746	21.67	21.99	Pass
134	5670	17.52	17.59	113.905	20.57	21.99	Pass
*142 (U-NII-2C)	5710	18.04	18.24	130.36	21.15	21.99	Pass
*142 (U-NII-3)	5710	6.95	7.09	10.071	10.03	27.99	Pass
151	5755	22.01	22.17	323.671	25.10	27.99	Pass
159	5795	22.02	22.23	326.33	25.14	27.99	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to 24-(8.01-6) = 21.99 dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.01-6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.01-6)].
- For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.01-6) = 27.99 dBm.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	18.13	18.38	133.878	21.27	21.99	Pass
58	5290	17.39	17.50	111.062	20.46	21.99	Pass
106	5530	15.79	15.86	76.479	18.84	21.99	Pass
122	5610	16.93	17.04	99.9	20.00	21.99	Pass
*138 (U-NII-2C)	5690	17.89	17.68	120.132	20.80	21.99	Pass
*138 (U-NII-3)	5690	3.41	3.26	4.311	6.35	27.99	Pass
155	5775	18.13	18.19	130.93	21.17	27.99	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (8.01 - 6) = 21.99$ dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (8.01 - 6) = 27.99$ dBm.

802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	10.67	10.78	23.636	13.74	21.99	Pass
*50 (U-NII-2A)	5250	10.85	10.80	24.185	13.84	21.99	Pass
114	5570	13.44	13.57	44.831	16.52	21.99	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (8.01 - 6) = 21.99$ dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].

802.11be (EHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.42	18.85	146.239	21.65	21.99	Pass
40	5200	18.34	18.79	143.917	21.58	21.99	Pass
48	5240	18.39	18.81	145.057	21.62	21.99	Pass
52	5260	18.56	18.74	146.596	21.66	21.99	Pass
60	5300	18.55	18.80	147.472	21.69	21.99	Pass
64	5320	18.53	18.70	145.416	21.63	21.99	Pass
100	5500	18.11	18.37	133.421	21.25	21.99	Pass
116	5580	18.45	18.83	146.368	21.65	21.99	Pass
140	5700	16.22	16.37	85.23	19.31	21.99	Pass
*144 (U-NII-2C)	5720	17.30	17.71	112.723	20.52	21.99	Pass
*144 (U-NII-3)	5720	10.67	10.96	24.142	13.83	27.99	Pass
149	5745	22.04	22.45	335.748	25.26	27.99	Pass
157	5785	22.06	22.41	334.875	25.25	27.99	Pass
165	5825	22.02	22.43	334.206	25.24	27.99	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (8.01 - 6) = 21.99$ dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (8.01 - 6) = 27.99$ dBm.

802.11be (EHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	18.65	18.97	152.168	21.82	21.99	Pass
46	5230	18.71	18.98	153.37	21.86	21.99	Pass
54	5270	18.80	18.94	154.201	21.88	21.99	Pass
62	5310	17.97	18.03	126.194	21.01	21.99	Pass
102	5510	16.22	16.31	84.636	19.28	21.99	Pass
110	5550	18.74	18.85	151.553	21.81	21.99	Pass
134	5670	17.63	17.69	116.692	20.67	21.99	Pass
*142 (U-NII-2C)	5710	18.16	18.38	134.329	21.28	21.99	Pass
*142 (U-NII-3)	5710	7.08	7.24	10.402	10.17	27.99	Pass
151	5755	22.13	22.31	333.521	25.23	27.99	Pass
159	5795	22.14	22.35	335.472	25.26	27.99	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (8.01 - 6) = 21.99$ dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (8.01 - 6) = 27.99$ dBm.

802.11be (EHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	18.26	18.53	138.274	21.41	21.99	Pass
58	5290	17.53	17.64	114.7	20.60	21.99	Pass
106	5530	15.91	15.98	78.622	18.96	21.99	Pass
122	5610	17.08	17.17	103.17	20.14	21.99	Pass
*138 (U-NII-2C)	5690	18.04	17.82	124.214	20.94	21.99	Pass
*138 (U-NII-3)	5690	3.56	3.39	4.453	6.49	27.99	Pass
155	5775	18.25	18.32	134.755	21.30	27.99	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (8.01 - 6) = 21.99$ dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (8.01 - 6) = 27.99$ dBm.

802.11be (EHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	10.82	10.89	24.353	13.87	21.99	Pass
*50 (U-NII-2A)	5250	10.97	10.95	24.948	13.97	21.99	Pass
114	5570	13.58	13.71	46.3	16.66	21.99	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (8.01 - 6) = 21.99$ dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].

802.11ax (HE20) 26-tone RU Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	10.24	10.31	21.308	13.29	21.99	Pass
40	5200	10.14	10.47	21.471	13.32	21.99	Pass
48	5240	10.22	10.45	21.611	13.35	21.99	Pass
52	5260	10.23	10.51	21.79	13.38	21.99	Pass
60	5300	10.14	10.46	21.445	13.31	21.99	Pass
64	5320	10.22	10.51	21.766	13.38	21.99	Pass
100	5500	10.10	10.21	20.728	13.17	21.99	Pass
116	5580	10.30	10.47	21.858	13.40	21.99	Pass
140	5700	8.16	8.18	13.123	11.18	21.99	Pass
*144 (U-NII-2C)	5720	-20.86	-19.73	0.018845	-17.25	21.99	Pass
*144 (U-NII-3)	5720	9.47	9.96	18.759	12.73	27.99	Pass
149	5745	22.09	22.20	327.767	25.16	27.99	Pass
157	5785	22.04	22.23	327.065	25.15	27.99	Pass
165	5825	22.06	22.24	328.188	25.16	27.99	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (8.01 - 6) = 21.99$ dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (8.01 - 6) = 27.99$ dBm.

802.11ax (HE20) 52-tone RU Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	13.25	13.30	42.515	16.29	21.99	Pass
40	5200	13.26	13.34	42.761	16.31	21.99	Pass
48	5240	13.15	13.29	41.984	16.23	21.99	Pass
52	5260	13.22	13.26	42.173	16.25	21.99	Pass
60	5300	13.23	13.29	42.368	16.27	21.99	Pass
64	5320	13.18	13.32	42.275	16.26	21.99	Pass
100	5500	13.07	13.30	41.656	16.20	21.99	Pass
116	5580	13.18	13.25	41.932	16.23	21.99	Pass
140	5700	10.94	10.97	24.919	13.97	21.99	Pass
*144 (U-NII-2C)	5720	-9.09	-9.25	0.2422	-6.16	21.99	Pass
*144 (U-NII-3)	5720	12.95	12.76	38.604	15.87	27.99	Pass
149	5745	22.04	22.11	322.511	25.09	27.99	Pass
157	5785	22.05	22.21	326.666	25.14	27.99	Pass
165	5825	22.04	22.12	322.885	25.09	27.99	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (8.01 - 6) = 21.99$ dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (8.01 - 6) = 27.99$ dBm.

802.11ax (HE20) 106-tone RU Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	16.26	16.31	85.023	19.30	21.99	Pass
40	5200	16.19	16.30	84.249	19.26	21.99	Pass
48	5240	16.20	16.28	84.149	19.25	21.99	Pass
52	5260	16.19	16.28	84.053	19.25	21.99	Pass
60	5300	16.17	16.24	83.473	19.22	21.99	Pass
64	5320	16.20	16.26	83.954	19.24	21.99	Pass
100	5500	16.17	16.33	84.354	19.26	21.99	Pass
116	5580	16.13	16.29	83.58	19.22	21.99	Pass
140	5700	13.73	13.88	48.039	16.82	21.99	Pass
*144 (U-NII-2C)	5720	12.46	12.25	34.408	15.37	21.99	Pass
*144 (U-NII-3)	5720	12.85	12.57	37.347	15.72	27.99	Pass
149	5745	22.02	22.16	323.658	25.10	27.99	Pass
157	5785	22.03	22.16	324.025	25.11	27.99	Pass
165	5825	22.06	22.20	326.653	25.14	27.99	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (8.01 - 6) = 21.99$ dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (8.01 - 6) = 27.99$ dBm.

802.11be (EHT20) 26-tone RU Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	10.37	10.44	21.956	13.42	21.99	Pass
40	5200	10.29	10.59	22.146	13.45	21.99	Pass
48	5240	10.36	10.57	22.267	13.48	21.99	Pass
52	5260	10.38	10.62	22.449	13.51	21.99	Pass
60	5300	10.26	10.61	22.125	13.45	21.99	Pass
64	5320	10.34	10.63	22.375	13.50	21.99	Pass
100	5500	10.26	10.34	21.431	13.31	21.99	Pass
116	5580	10.44	10.60	22.548	13.53	21.99	Pass
140	5700	8.28	8.31	13.506	11.31	21.99	Pass
*144 (U-NII-2C)	5720	-20.73	-19.61	0.019392	-17.12	21.99	Pass
*144 (U-NII-3)	5720	9.58	10.11	19.335	12.86	27.99	Pass
149	5745	22.11	22.34	333.951	25.24	27.99	Pass
157	5785	22.08	22.37	334.02	25.24	27.99	Pass
165	5825	22.02	22.36	331.408	25.20	27.99	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (8.01 - 6) = 21.99$ dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (8.01 - 6) = 27.99$ dBm.

802.11be (EHT20) 52-tone RU Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	13.37	13.42	43.706	16.41	21.99	Pass
40	5200	13.38	13.46	43.959	16.43	21.99	Pass
48	5240	13.29	13.44	43.41	16.38	21.99	Pass
52	5260	13.36	13.40	43.555	16.39	21.99	Pass
60	5300	13.38	13.42	43.756	16.41	21.99	Pass
64	5320	13.33	13.43	43.557	16.39	21.99	Pass
100	5500	13.19	13.45	42.976	16.33	21.99	Pass
116	5580	13.31	13.41	43.357	16.37	21.99	Pass
140	5700	11.07	11.11	25.706	14.10	21.99	Pass
*144 (U-NII-2C)	5720	-8.98	-9.14	0.2484	-6.05	21.99	Pass
*144 (U-NII-3)	5720	13.07	12.90	39.775	16.00	27.99	Pass
149	5745	22.16	22.24	331.931	25.21	27.99	Pass
157	5785	22.09	22.33	332.81	25.22	27.99	Pass
165	5825	22.06	22.23	327.803	25.16	27.99	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (8.01 - 6) = 21.99$ dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (8.01 - 6) = 27.99$ dBm.

802.11be (EHT20) 106-tone RU Beamforming

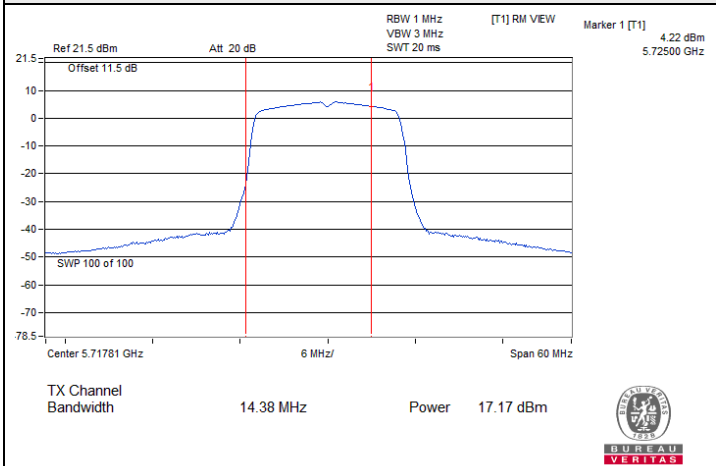
Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	16.38	16.42	87.304	19.41	21.99	Pass
40	5200	16.33	16.45	87.111	19.40	21.99	Pass
48	5240	16.31	16.41	86.508	19.37	21.99	Pass
52	5260	16.35	16.40	86.803	19.39	21.99	Pass
60	5300	16.28	16.39	86.013	19.35	21.99	Pass
64	5320	16.31	16.41	86.508	19.37	21.99	Pass
100	5500	16.29	16.44	86.615	19.38	21.99	Pass
116	5580	16.27	16.42	86.217	19.36	21.99	Pass
140	5700	13.89	14.03	49.784	16.97	21.99	Pass
*144 (U-NII-2C)	5720	12.59	12.38	35.453	15.50	21.99	Pass
*144 (U-NII-3)	5720	12.96	12.70	38.391	15.84	27.99	Pass
149	5745	22.04	22.28	329	25.17	27.99	Pass
157	5785	22.06	22.31	330.91	25.20	27.99	Pass
165	5825	22.08	22.33	332.437	25.22	27.99	Pass

Notes:

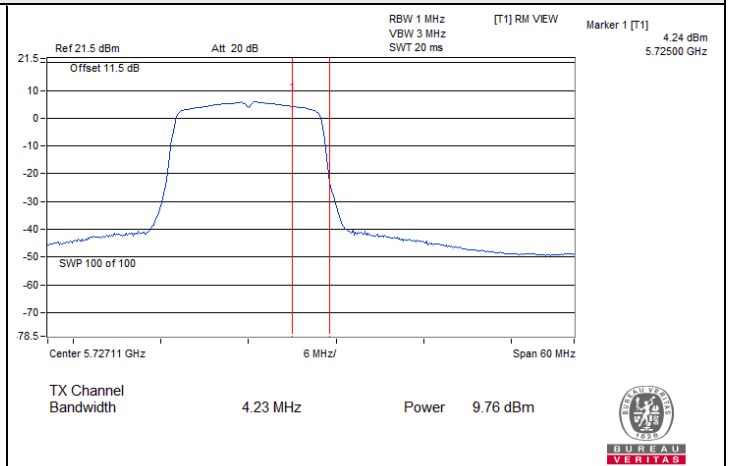
- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (8.01 - 6) = 21.99$ dBm.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.01 - 6)].
- For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (8.01 - 6) = 27.99$ dBm.



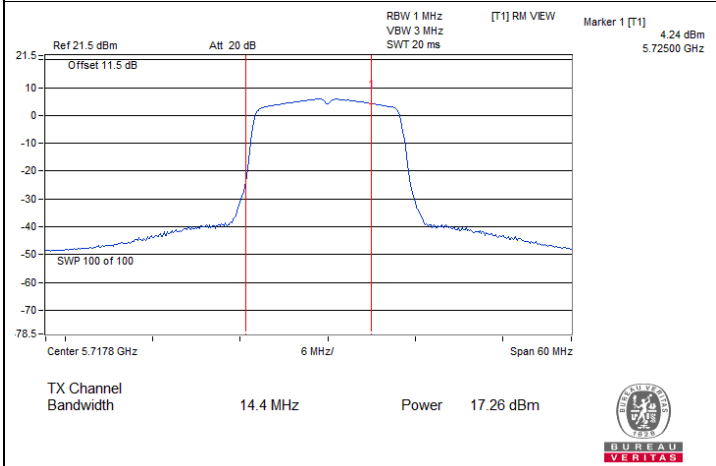
Spectrum Plot for channel straddling



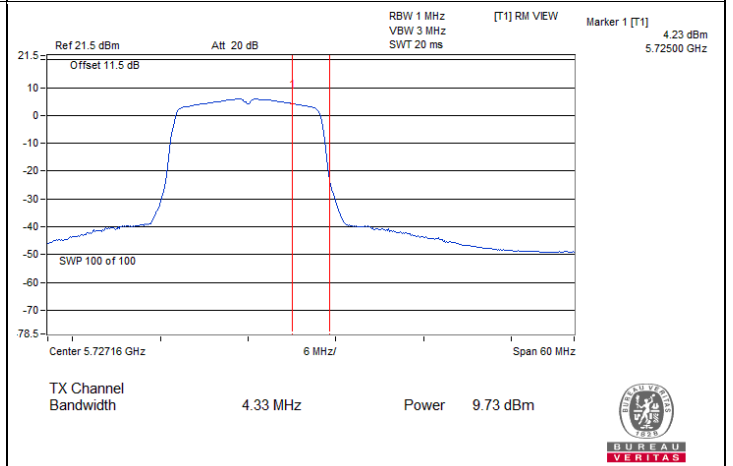
802.11a CDD / Chain 0 : CH 144 (U-NII-2C)



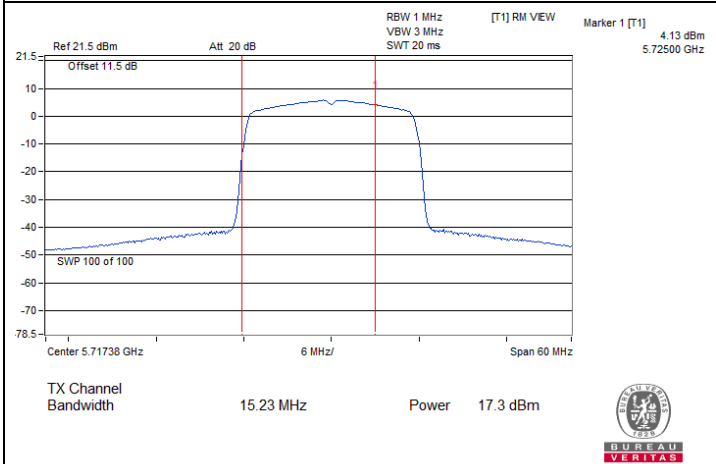
802.11a CDD / Chain 0 : CH 144 (U-NII-3)



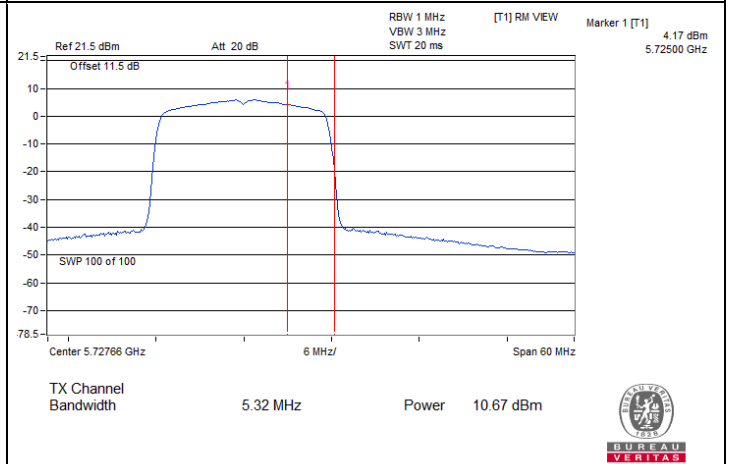
802.11a CDD / Chain 1 : CH 144 (U-NII-2C)



802.11a CDD / Chain 1 : CH 144 (U-NII-3)



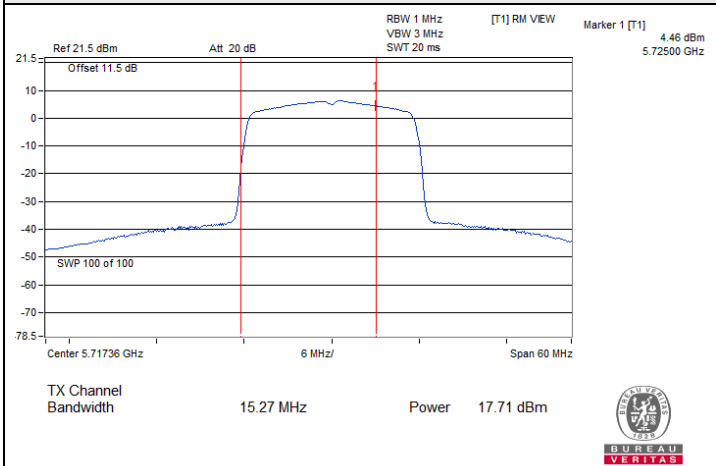
802.11be (EHT20) CDD / Chain 0 : CH 144 (U-NII-2C)



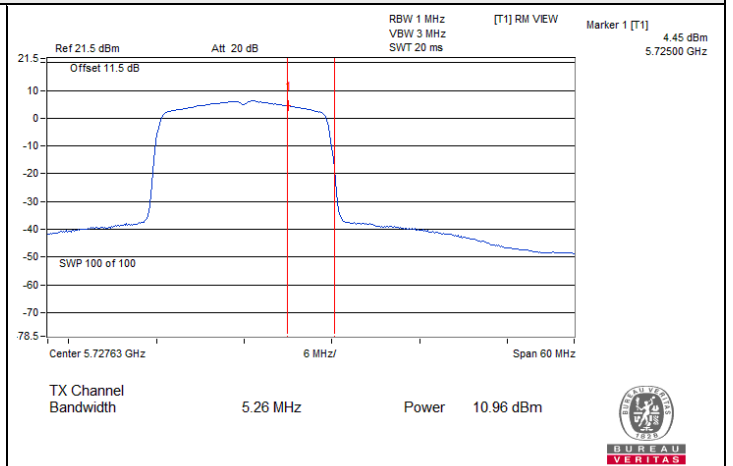
802.11be (EHT20) CDD / Chain 0 : CH 144 (U-NII-3)



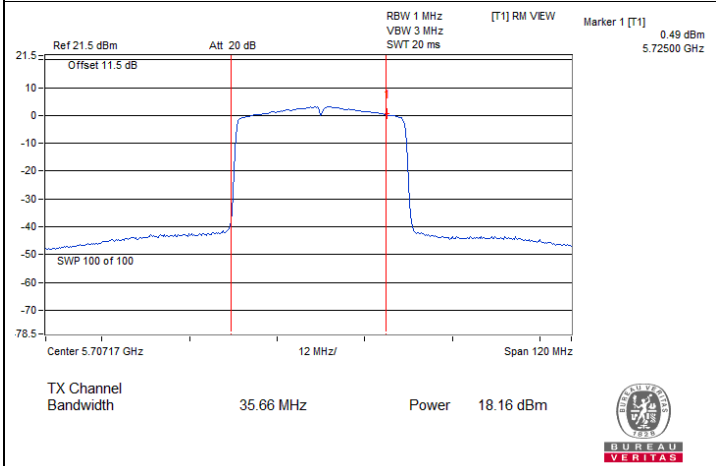
Spectrum Plot for channel straddling



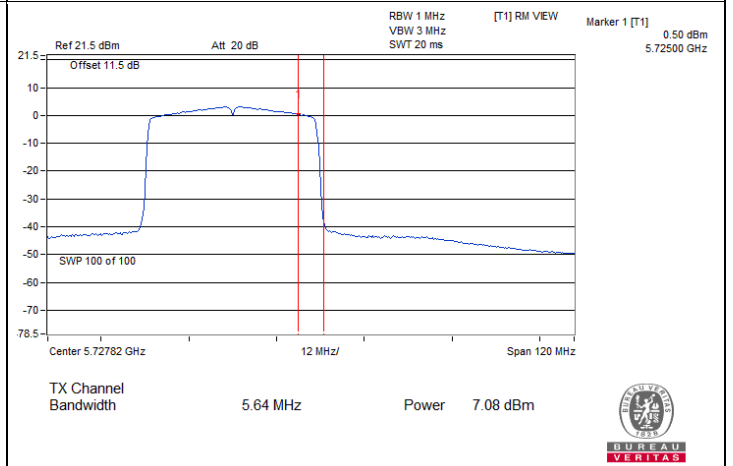
802.11be (EHT20) CDD / Chain 1 : CH 144 (U-NII-2C)



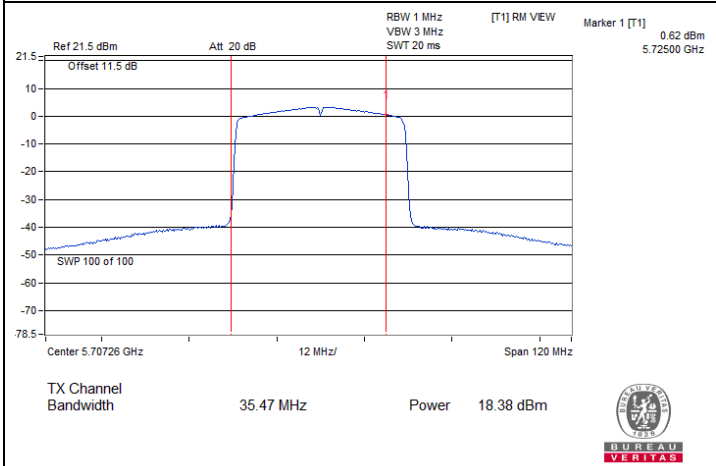
802.11be (EHT20) CDD / Chain 1 : CH 144 (U-NII-3)



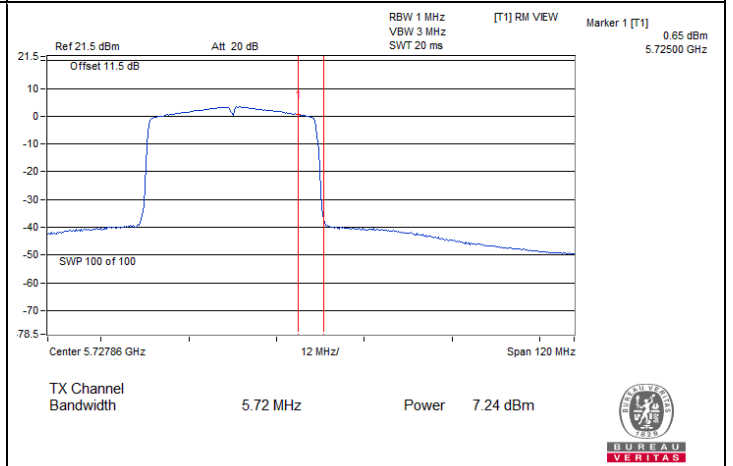
802.11be (EHT40) CDD / Chain 0 : CH 142 (U-NII-2C)



802.11be (EHT40) CDD / Chain 0 : CH 142 (U-NII-3)



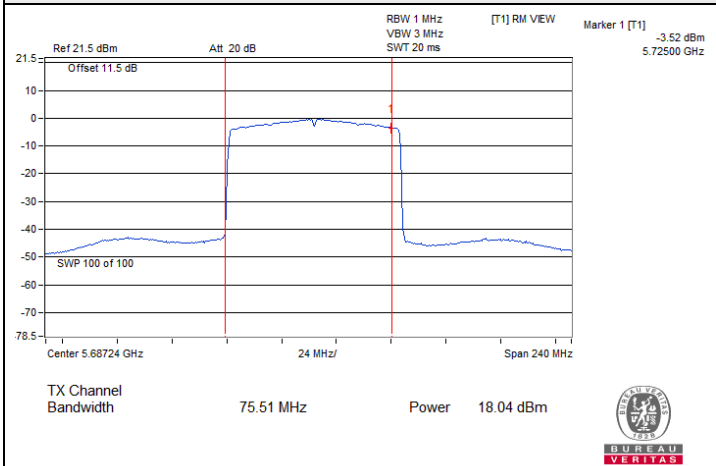
802.11be (EHT40) CDD / Chain 1 : CH 142 (U-NII-2C)



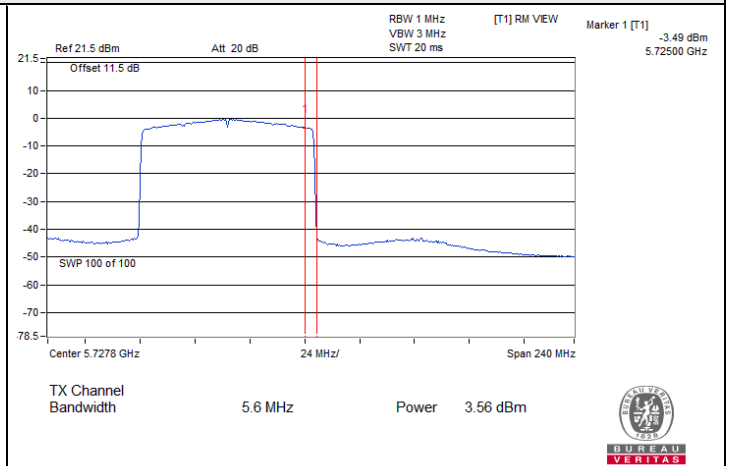
802.11be (EHT40) CDD / Chain 1 : CH 142 (U-NII-3)



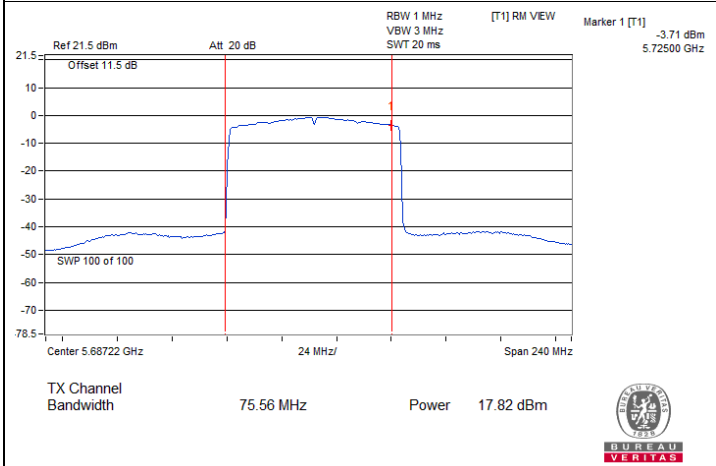
Spectrum Plot for channel straddling



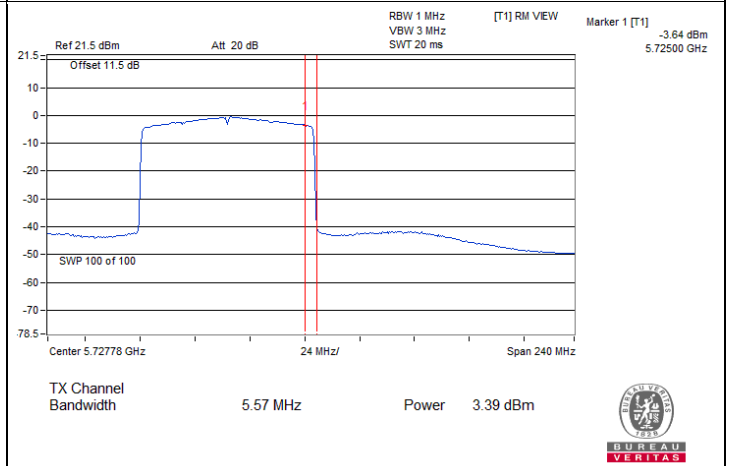
802.11be (EHT80) CDD / Chain 0 : CH 138 (U-NII-2C)



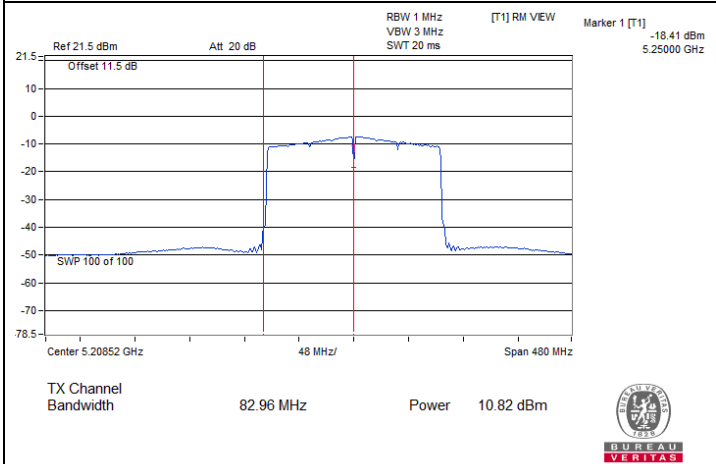
802.11be (EHT80) CDD / Chain 0 : CH 138 (U-NII-3)



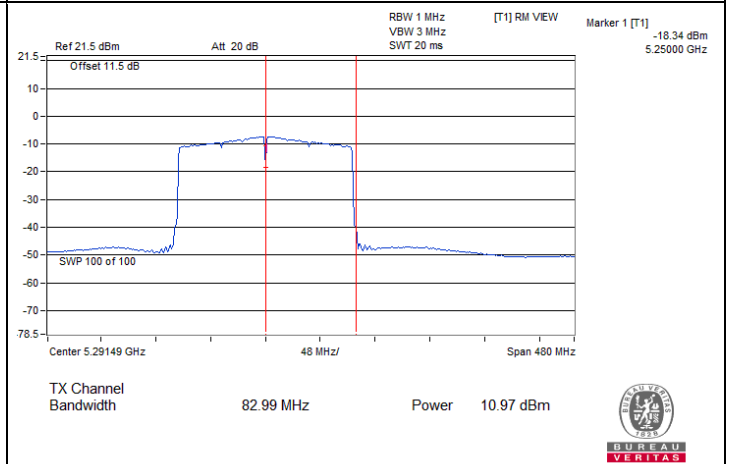
802.11be (EHT80) CDD / Chain 1 : CH 138 (U-NII-2C)



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



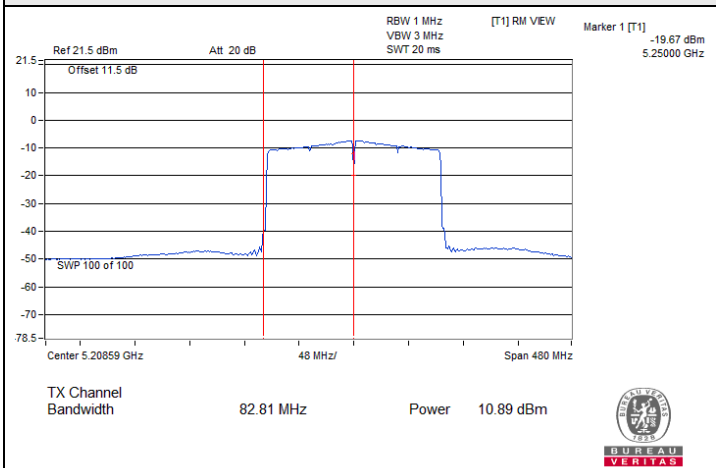
802.11be (EHT160) CDD / Chain 0 : CH 50 (U-NII-1)



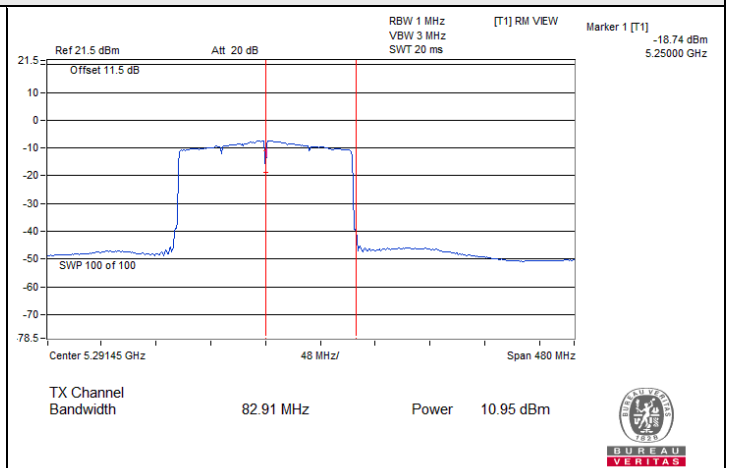
802.11be (EHT160) CDD / Chain 0 : CH 50 (U-NII-2A)



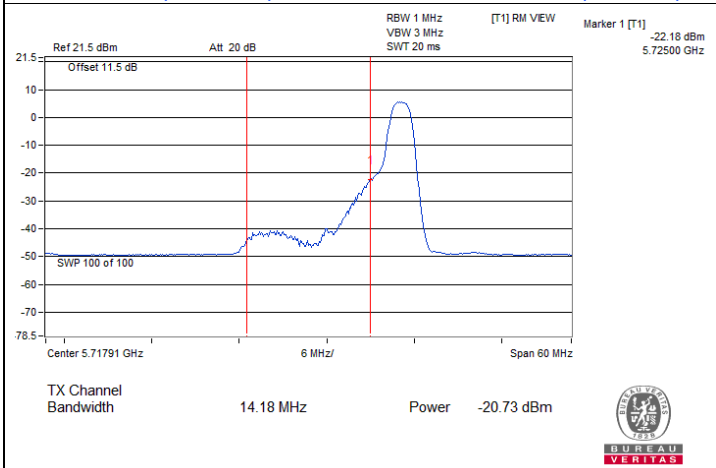
Spectrum Plot for channel straddling



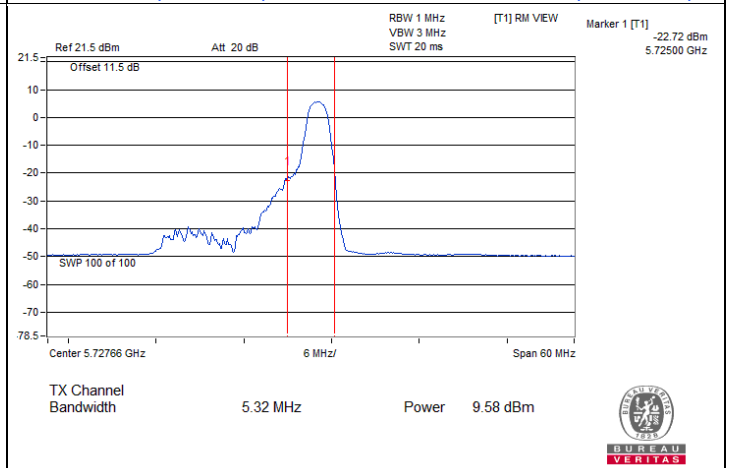
802.11be (EHT160) CDD / Chain 1 : CH 50 (U-NII-1)



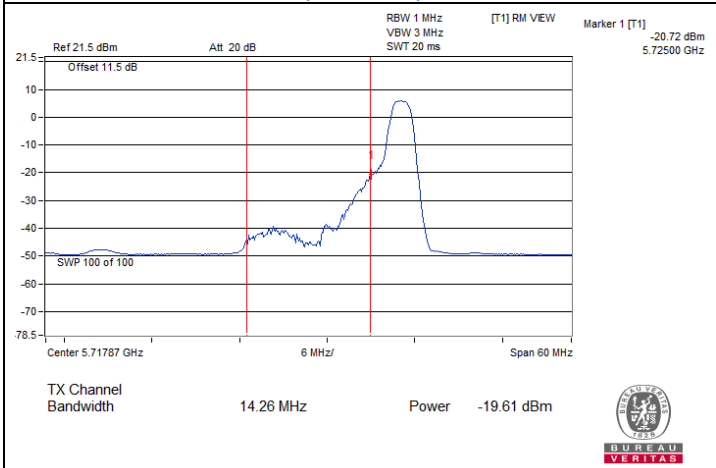
802.11be (EHT160) CDD / Chain 1 : CH 50 (U-NII-2A)



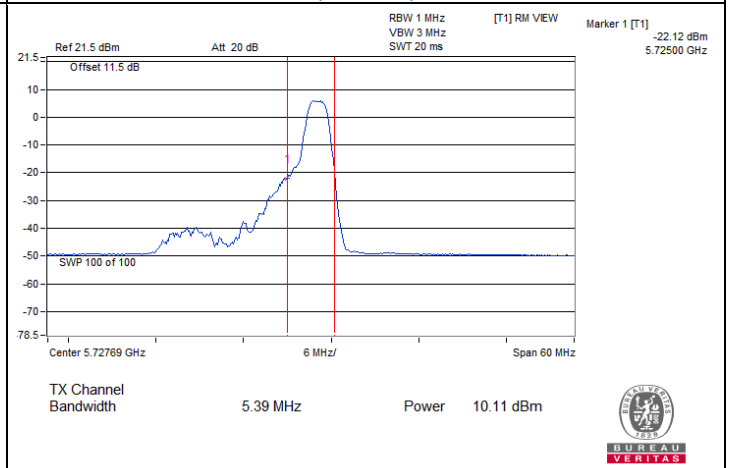
802.11be (EHT20) 26-tone RU CDD / Chain 0 : CH 144@8 (U-NII-2C)



802.11be (EHT20) 26-tone RU CDD / Chain 0 : CH 144@8 (U-NII-3)

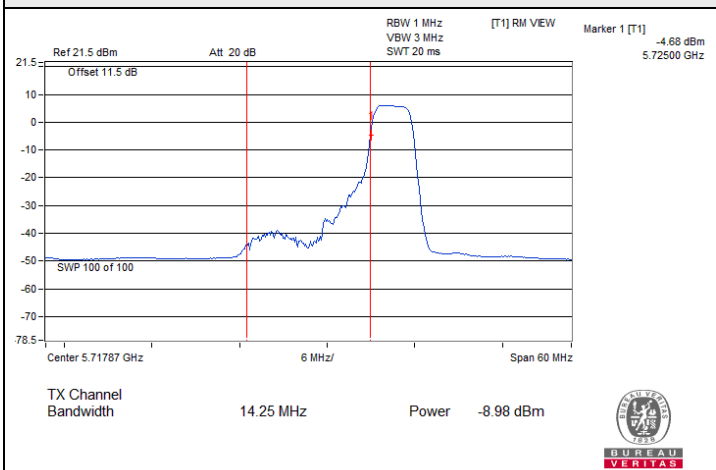


802.11be (EHT20) 26-tone RU CDD / Chain 1 : CH 144@8 (U-NII-2C)

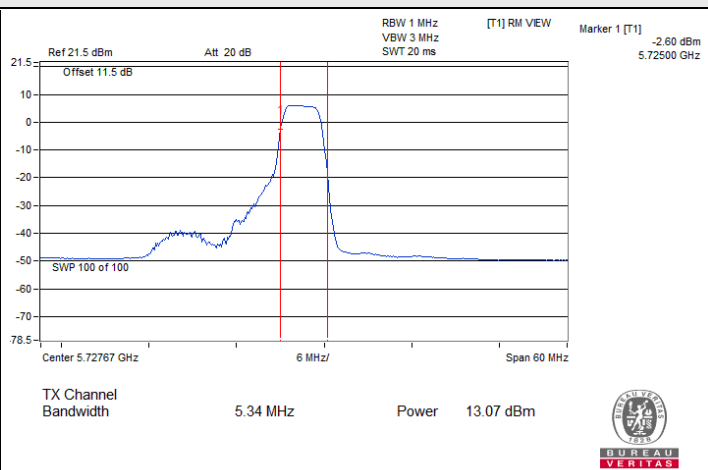


802.11be (EHT20) 26-tone RU CDD / Chain 1 : CH 144@8 (U-NII-3)

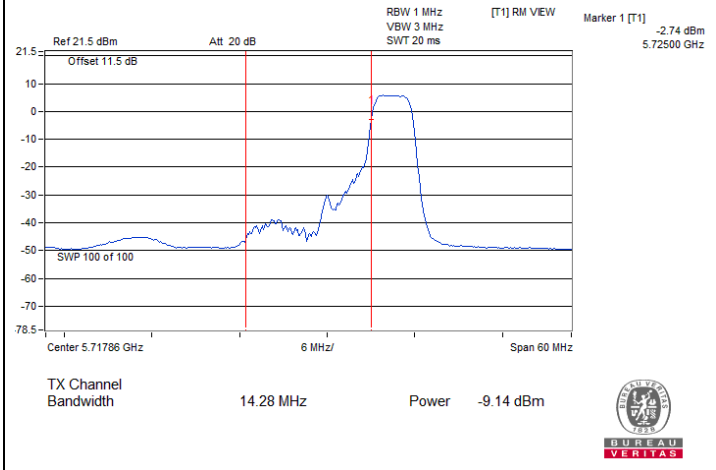
Spectrum Plot for channel straddling



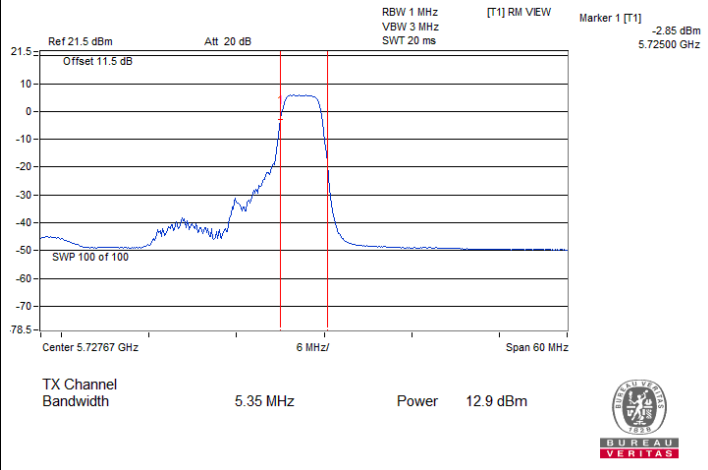
802.11be (EHT20) 52-tone RU CDD / Chain 0 : CH
144@40 (U-NII-2C)



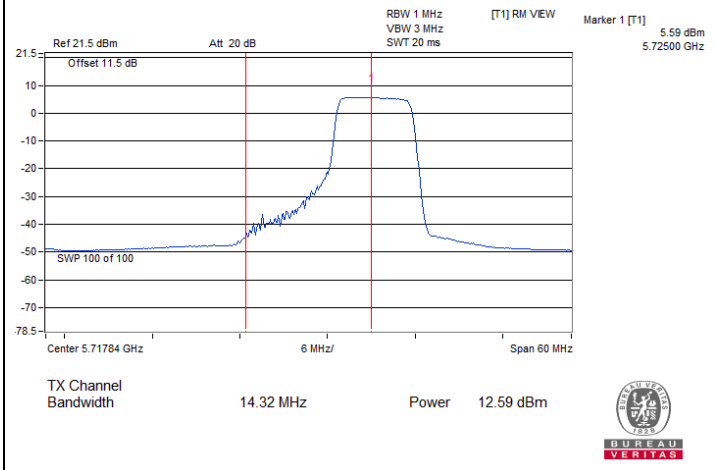
802.11be (EHT20) 52-tone RU CDD / Chain 0 : CH
144@40 (U-NII-3)



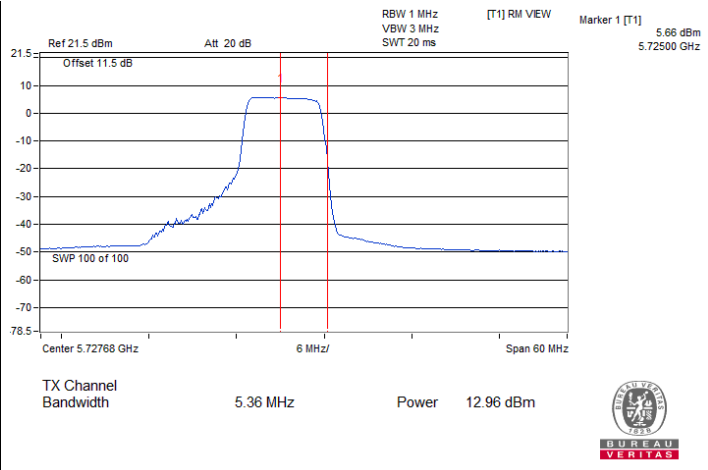
802.11be (EHT20) 52-tone RU CDD / Chain 1 : CH
144@40 (U-NII-2C)



802.11be (EHT20) 52-tone RU CDD / Chain 1 : CH
144@40 (U-NII-3)



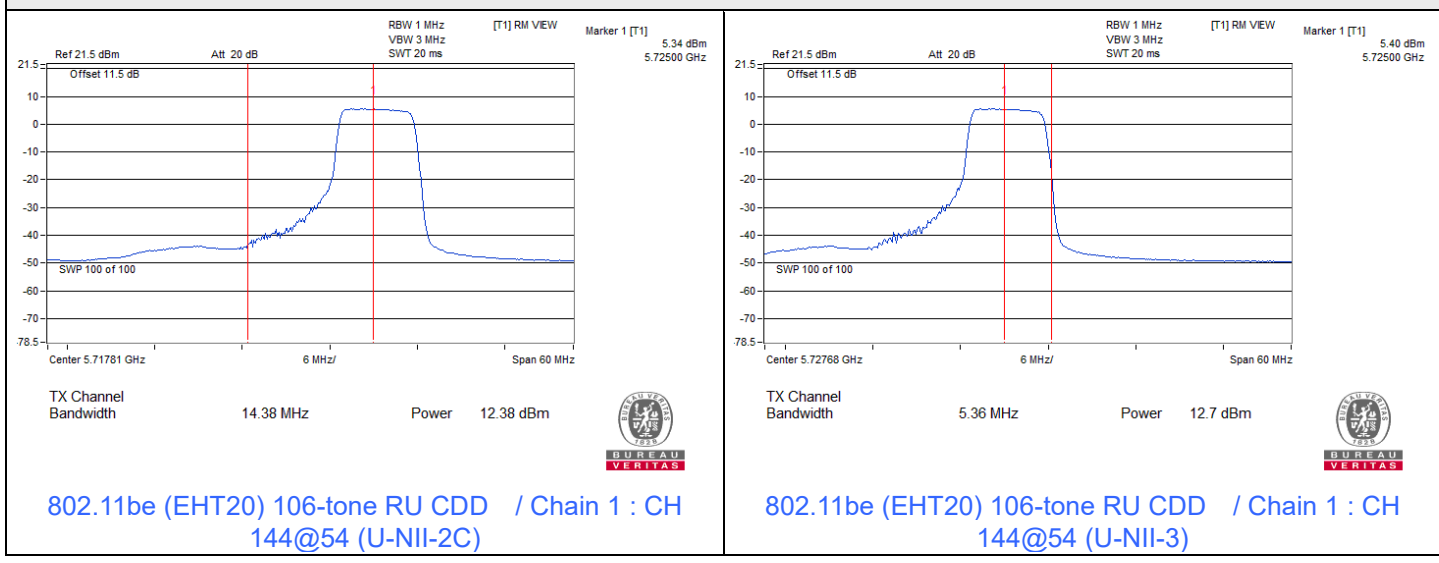
802.11be (EHT20) 106-tone RU CDD / Chain 0 : CH
144@54 (U-NII-2C)



802.11be (EHT20) 106-tone RU CDD / Chain 0 : CH
144@54 (U-NII-3)



Spectrum Plot for channel straddling



7.3 Power Spectral Density

1Tx

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	9.48	11	Pass
40	5200	9.57	11	Pass
48	5240	9.65	11	Pass
52	5260	9.66	11	Pass
60	5300	9.65	11	Pass
64	5320	6.82	11	Pass
100	5500	7.27	11	Pass
116	5580	9.31	11	Pass
140	5700	6.34	11	Pass
144 (U-NII-2C)	5720	9.49	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 5 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	7.02	11	Pass
40	5200	9.49	11	Pass
48	5240	9.29	11	Pass
52	5260	9.34	11	Pass
60	5300	9.33	11	Pass
64	5320	6.12	11	Pass
100	5500	4.92	11	Pass
116	5580	9.10	11	Pass
140	5700	3.56	11	Pass
144 (U-NII-2C)	5720	9.21	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 5 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
38	5190	1.93	11	Pass
46	5230	5.91	11	Pass
54	5270	6.01	11	Pass
62	5310	0.65	11	Pass
102	5510	0.91	11	Pass
110	5550	6.01	11	Pass
134	5670	2.47	11	Pass
142 (U-NII-2C)	5710	6.04	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 5 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
42	5210	-0.68	11	Pass
58	5290	-1.61	11	Pass
106	5530	-2.39	11	Pass
122	5610	-0.98	11	Pass
138 (U-NII-2C)	5690	0.30	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 5 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
50 (U-NII-1)	5250	-7.21	11	Pass
50 (U-NII-2A)	5250	-7.21	11	Pass
114	5570	-8.35	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 5 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	6.90	11	Pass
40	5200	10.28	11	Pass
48	5240	10.38	11	Pass
52	5260	10.32	11	Pass
60	5300	10.27	11	Pass
64	5320	6.01	11	Pass
100	5500	4.88	11	Pass
116	5580	10.19	11	Pass
140	5700	3.43	11	Pass
144 (U-NII-2C)	5720	-15.80	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 5 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	6.91	11	Pass
40	5200	10.25	11	Pass
48	5240	10.34	11	Pass
52	5260	10.34	11	Pass
60	5300	10.25	11	Pass
64	5320	6.03	11	Pass
100	5500	4.90	11	Pass
116	5580	10.23	11	Pass
140	5700	3.46	11	Pass
144 (U-NII-2C)	5720	0.35	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 5 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	6.90	11	Pass
40	5200	10.28	11	Pass
48	5240	10.33	11	Pass
52	5260	10.35	11	Pass
60	5300	10.38	11	Pass
64	5320	5.97	11	Pass
100	5500	4.90	11	Pass
116	5580	10.35	11	Pass
140	5700	3.47	11	Pass
144 (U-NII-2C)	5720	10.32	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 5 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 1	144 (U-NII-3)	5720	-0.3	1.92	30	Pass
	149	5745	1.99	4.21	30	Pass
	157	5785	2.02	4.24	30	Pass
	165	5825	1.59	3.81	30	Pass

Note: For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 1	144 (U-NII-3)	5720	-1.5	0.72	30	Pass
	149	5745	0.49	2.71	30	Pass
	157	5785	0.37	2.59	30	Pass
	165	5825	0.11	2.33	30	Pass

Note: For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 1	142 (U-NII-3)	5710	-5.8	-3.58	30	Pass
	151	5755	-2.92	-0.7	30	Pass
	159	5795	-3.24	-1.02	30	Pass

Note: For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT80)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 1	138 (U-NII-3)	5690	-11.93	-9.71	30	Pass
	155	5775	-9.81	-7.59	30	Pass

Note: For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) 26-tone RU

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 1	144@8 (U-NII-3)	5720	1.6	3.82	30	Pass
	149@0	5745	8.73	10.95	30	Pass
	157@4	5785	8.35	10.57	30	Pass
	165@0	5825	8.21	10.43	30	Pass

Note: For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) 52-tone RU

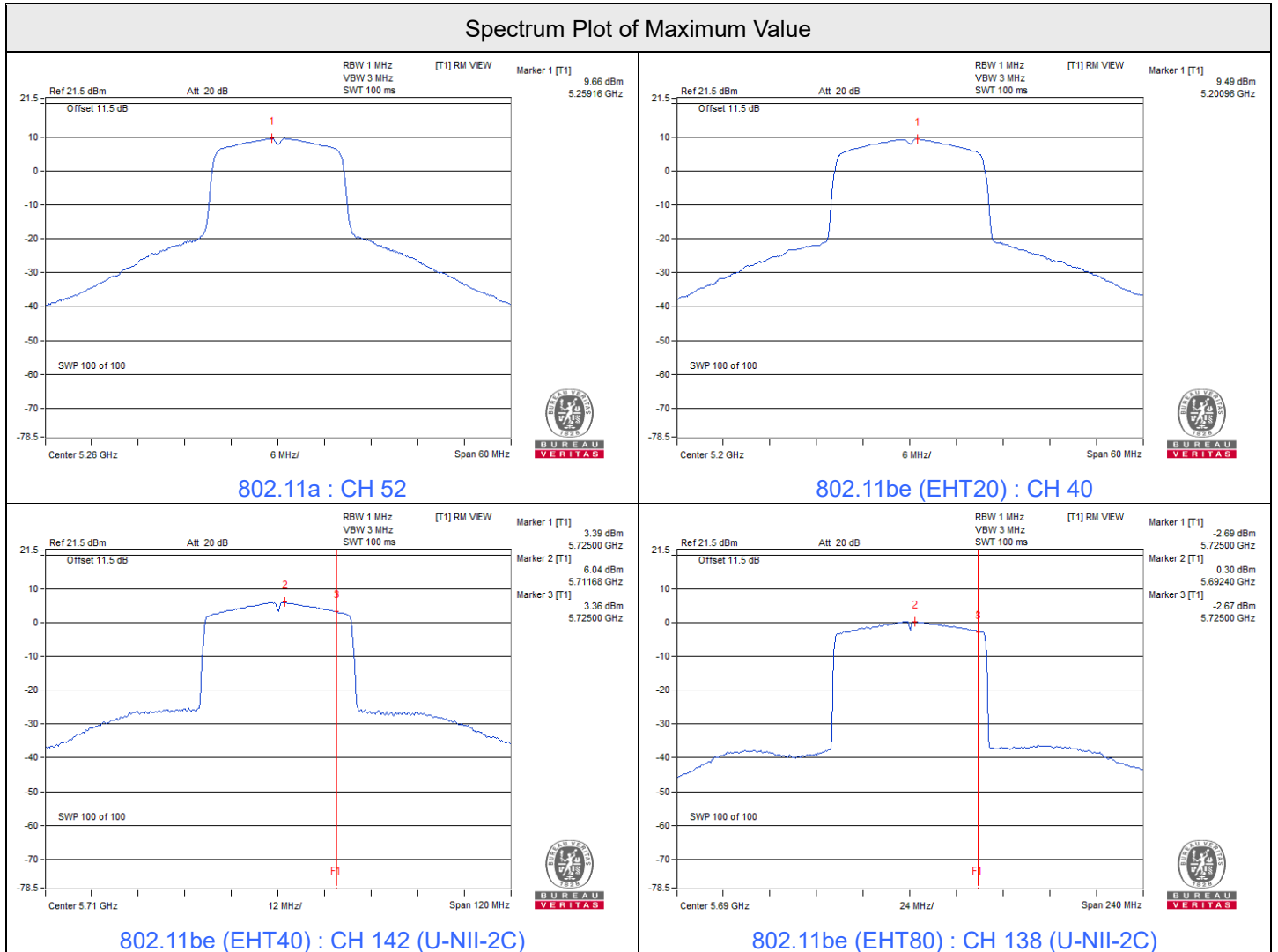
TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 1	144@40 (U-NII-3)	5720	1.31	3.53	30	Pass
	149@37	5745	6.11	8.33	30	Pass
	157@38	5785	5.26	7.48	30	Pass
	165@37	5825	5.99	8.21	30	Pass

Note: For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) 106-tone RU

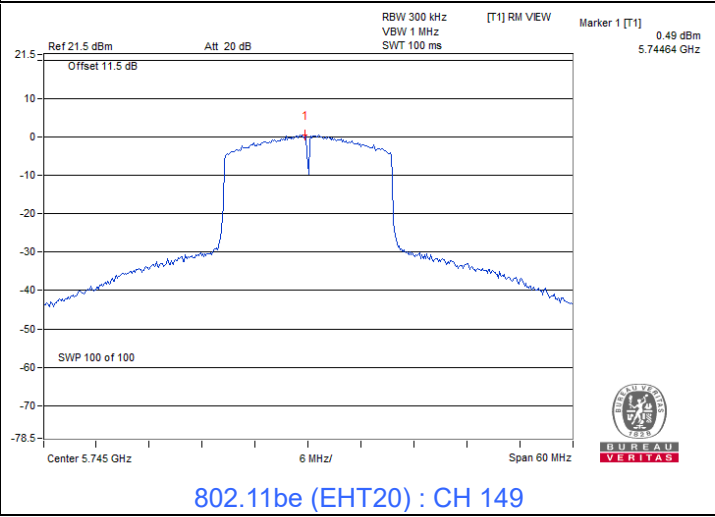
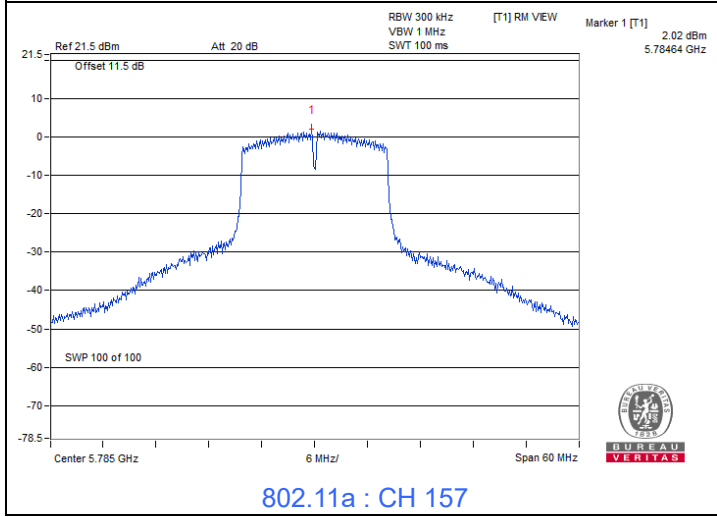
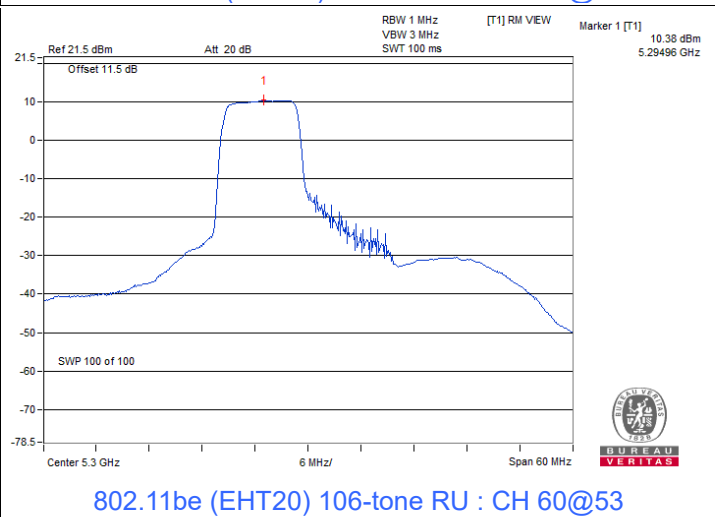
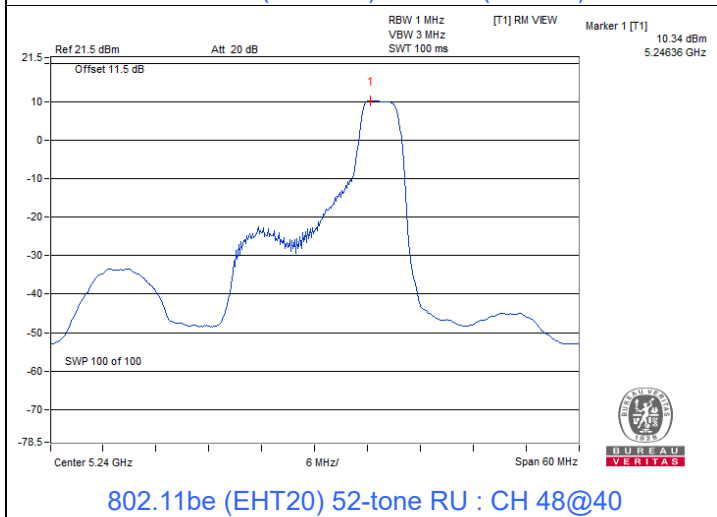
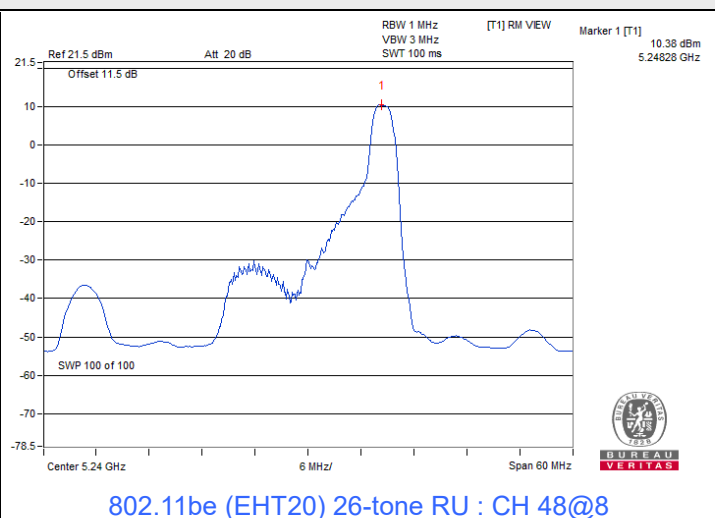
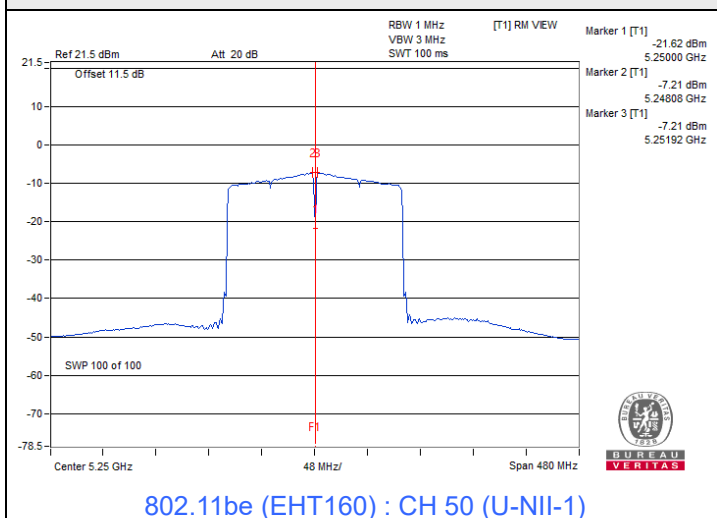
TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 1	144@54 (U-NII-3)	5720	1.34	3.56	30	Pass
	149@53	5745	2.97	5.19	30	Pass
	157@53	5785	3.05	5.27	30	Pass
	165@54	5825	2.85	5.07	30	Pass

Note: For U-NII-3, the antenna gain is 5 dBi < 6 dBi, so the power density limit shall not be reduced.

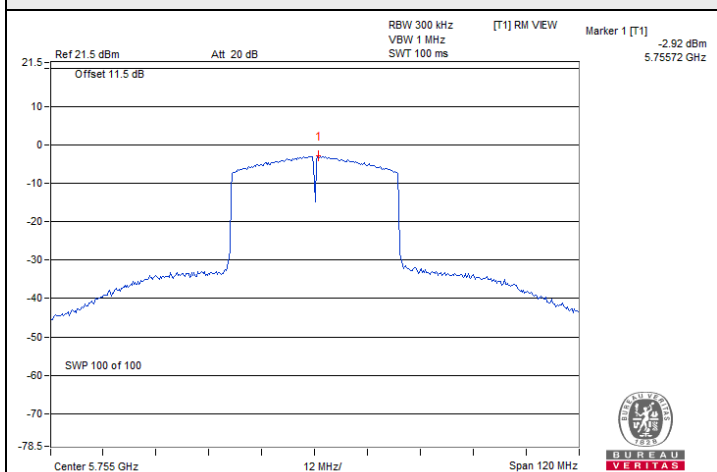




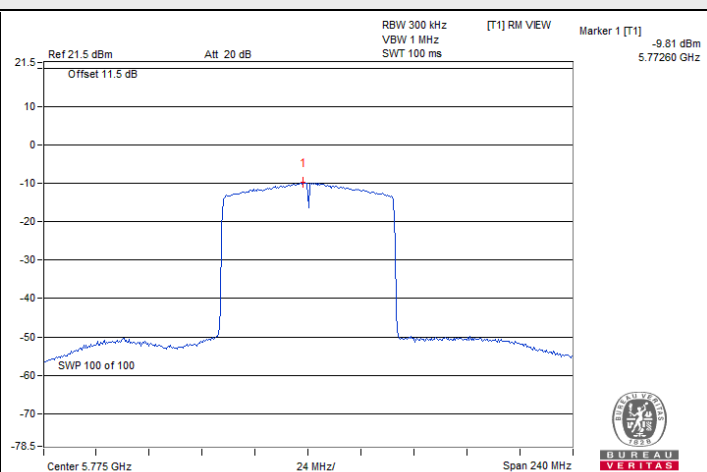
Spectrum Plot of Maximum Value



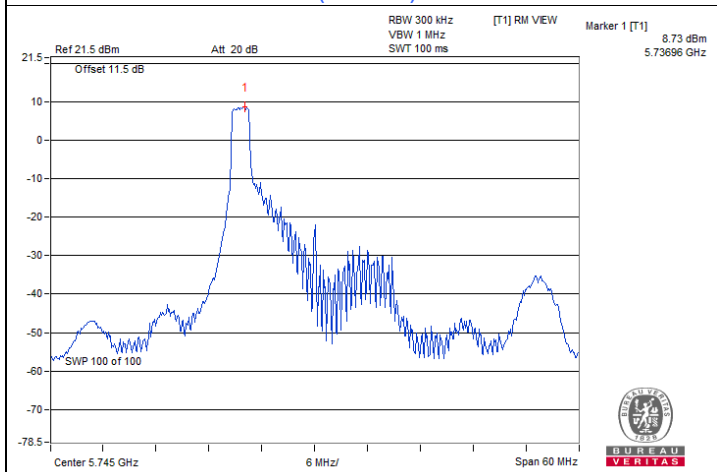
Spectrum Plot of Maximum Value



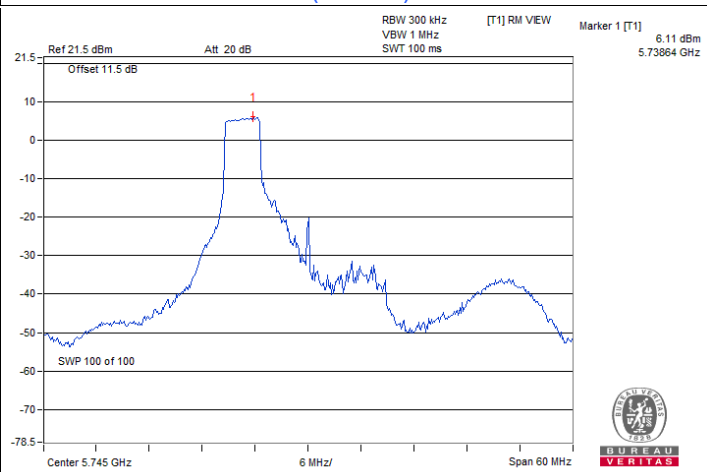
802.11be (EHT40) : CH 151



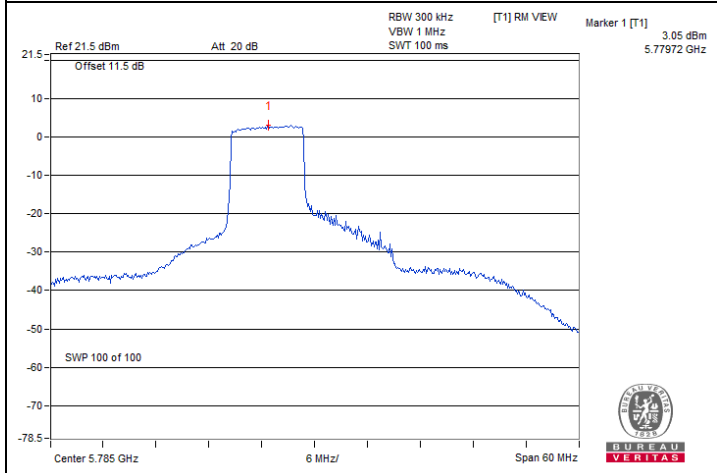
802.11be (EHT80) : CH 155



802.11be (EHT20) 26-tone RU : CH 149@0



802.11be (EHT20) 52-tone RU : CH 149@37



802.11be (EHT20) 106-tone RU : CH 157@53

2Tx

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	5.65	6.05	8.86	8.99	Pass
40	5200	5.62	6.04	8.85	8.99	Pass
48	5240	5.59	6.05	8.84	8.99	Pass
52	5260	5.62	6.04	8.85	8.99	Pass
60	5300	5.64	5.93	8.80	8.99	Pass
64	5320	5.63	6.06	8.86	8.99	Pass
100	5500	5.64	6.03	8.85	8.99	Pass
116	5580	5.66	5.94	8.81	8.99	Pass
140	5700	5.53	5.63	8.59	8.99	Pass
144 (U-NII-2C)	5720	5.67	5.95	8.82	8.99	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	5.60	6.05	8.84	8.99	Pass
40	5200	5.53	6.01	8.79	8.99	Pass
48	5240	5.61	6.09	8.87	8.99	Pass
52	5260	5.70	6.02	8.87	8.99	Pass
60	5300	5.65	6.01	8.84	8.99	Pass
64	5320	5.72	5.90	8.82	8.99	Pass
100	5500	5.46	5.63	8.56	8.99	Pass
116	5580	5.53	6.08	8.82	8.99	Pass
140	5700	3.40	3.41	6.42	8.99	Pass
144 (U-NII-2C)	5720	5.58	6.01	8.81	8.99	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	2.82	3.24	6.05	8.99	Pass
46	5230	2.94	3.23	6.10	8.99	Pass
54	5270	3.17	3.29	6.24	8.99	Pass
62	5310	2.19	2.25	5.23	8.99	Pass
102	5510	0.46	0.58	3.53	8.99	Pass
110	5550	2.70	2.75	5.74	8.99	Pass
134	5670	1.67	1.75	4.72	8.99	Pass
142 (U-NII-2C)	5710	2.98	3.17	6.09	8.99	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	-1.09	-0.99	1.97	8.99	Pass
58	5290	-1.80	-1.60	1.31	8.99	Pass
106	5530	-3.51	-3.42	-0.45	8.99	Pass
122	5610	-2.18	-2.04	0.90	8.99	Pass
138 (U-NII-2C)	5690	-0.67	-0.48	2.44	8.99	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
50 (U-NII-1)	5250	-7.59	-7.53	-4.55	8.99	Pass
50 (U-NII-2A)	5250	-7.59	-7.55	-4.56	8.99	Pass
114	5570	-8.34	-8.29	-5.30	8.99	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	5.57	5.67	8.63	8.99	Pass
40	5200	5.48	5.76	8.63	8.99	Pass
48	5240	5.54	5.85	8.71	8.99	Pass
52	5260	5.59	5.87	8.74	8.99	Pass
60	5300	5.58	5.81	8.71	8.99	Pass
64	5320	5.60	5.85	8.74	8.99	Pass
100	5500	5.41	5.64	8.54	8.99	Pass
116	5580	5.66	5.73	8.71	8.99	Pass
140	5700	3.14	3.32	6.24	8.99	Pass
144 (U-NII-2C)	5720	-17.82	-21.23	-16.19	8.99	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	5.60	5.71	8.67	8.99	Pass
40	5200	5.59	5.72	8.67	8.99	Pass
48	5240	5.61	5.75	8.69	8.99	Pass
52	5260	5.66	5.76	8.72	8.99	Pass
60	5300	5.66	5.68	8.68	8.99	Pass
64	5320	5.58	5.75	8.68	8.99	Pass
100	5500	5.30	5.65	8.49	8.99	Pass
116	5580	5.63	5.74	8.70	8.99	Pass
140	5700	3.26	3.35	6.32	8.99	Pass
144 (U-NII-2C)	5720	-5.62	-5.74	-2.67	8.99	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	5.68	5.78	8.74	8.99	Pass
40	5200	5.66	5.63	8.66	8.99	Pass
48	5240	5.63	5.75	8.70	8.99	Pass
52	5260	5.61	5.63	8.63	8.99	Pass
60	5300	5.61	5.60	8.62	8.99	Pass
64	5320	5.57	5.75	8.67	8.99	Pass
100	5500	5.34	5.47	8.42	8.99	Pass
116	5580	5.57	5.71	8.65	8.99	Pass
140	5700	3.26	3.31	6.30	8.99	Pass
144 (U-NII-2C)	5720	5.63	5.71	8.68	8.99	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.01 dBi > 6dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2A, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.
- For U-NII-2C, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99 dBm/MHz.

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	144 (U-NII-3)	5720	-4.4	-2.18	3.01	0.83	27.99	Pass
	149	5745	1.63	3.85	3.01	6.86	27.99	Pass
	157	5785	1.64	3.86	3.01	6.87	27.99	Pass
	165	5825	1.56	3.78	3.01	6.79	27.99	Pass
Chain 1	144 (U-NII-3)	5720	-4.43	-2.21	3.01	0.8	27.99	Pass
	149	5745	1.9	4.12	3.01	7.13	27.99	Pass
	157	5785	1.89	4.11	3.01	7.12	27.99	Pass
	165	5825	1.86	4.08	3.01	7.09	27.99	Pass

Notes:

- Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 30-(8.01-6) = 27.99 dBm/500kHz.

802.11be (EHT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	144 (U-NII-3)	5720	-4.96	-2.74	3.01	0.27	27.99	Pass
	149	5745	0.26	2.48	3.01	5.49	27.99	Pass
	157	5785	0.29	2.51	3.01	5.52	27.99	Pass
	165	5825	0.26	2.48	3.01	5.49	27.99	Pass
Chain 1	144 (U-NII-3)	5720	-4.63	-2.41	3.01	0.6	27.99	Pass
	149	5745	0.56	2.78	3.01	5.79	27.99	Pass
	157	5785	0.53	2.75	3.01	5.76	27.99	Pass
	165	5825	0.56	2.78	3.01	5.79	27.99	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 30-(8.01-6) = 27.99 dBm/500kHz.

802.11be (EHT40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	142 (U-NII-3)	5710	-8.88	-6.66	3.01	-3.65	27.99	Pass
	151	5755	-2.59	-0.37	3.01	2.64	27.99	Pass
	159	5795	-2.48	-0.26	3.01	2.75	27.99	Pass
Chain 1	142 (U-NII-3)	5710	-8.45	-6.23	3.01	-3.22	27.99	Pass
	151	5755	-2.37	-0.15	3.01	2.86	27.99	Pass
	159	5795	-2.38	-0.16	3.01	2.85	27.99	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 30-(8.01-6) = 27.99 dBm/500kHz.

802.11be (EHT80)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	138 (U-NII-3)	5690	-13.21	-10.99	3.01	-7.98	27.99	Pass
	155	5775	-10.2	-7.98	3.01	-4.97	27.99	Pass
Chain 1	138 (U-NII-3)	5690	-12.9	-10.68	3.01	-7.67	27.99	Pass
	155	5775	-10.18	-7.96	3.01	-4.95	27.99	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 30-(8.01-6) = 27.99 dBm/500kHz.

802.11be (EHT20) 26-tone RU

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	144@8 (U-NII-3)	5720	-3.62	-1.4	3.01	1.61	27.99	Pass
	149@0	5745	8.33	10.55	3.01	13.56	27.99	Pass
	157@4	5785	8.27	10.49	3.01	13.5	27.99	Pass
	165@0	5825	8.26	10.48	3.01	13.49	27.99	Pass
Chain 1	144@8 (U-NII-3)	5720	-3.09	-0.87	3.01	2.14	27.99	Pass
	149@0	5745	8.53	10.75	3.01	13.76	27.99	Pass
	157@4	5785	8.55	10.77	3.01	13.78	27.99	Pass
	165@0	5825	8.55	10.77	3.01	13.78	27.99	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to 30-(8.01-6) = 27.99 dBm/500kHz.

802.11be (EHT20) 52-tone RU

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	144@40 (U-NII-3)	5720	-3.29	-1.07	3.01	1.94	27.99	Pass
	149@37	5745	5.8	8.02	3.01	11.03	27.99	Pass
	157@38	5785	5.8	8.02	3.01	11.03	27.99	Pass
	165@37	5825	5.75	7.97	3.01	10.98	27.99	Pass
Chain 1	144@40 (U-NII-3)	5720	-3.18	-0.96	3.01	2.05	27.99	Pass
	149@37	5745	5.96	8.18	3.01	11.19	27.99	Pass
	157@38	5785	5.93	8.15	3.01	11.16	27.99	Pass
	165@37	5825	5.98	8.2	3.01	11.21	27.99	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to $30-(8.01-6) = 27.99$ dBm/500kHz.

802.11be (EHT20) 106-tone RU

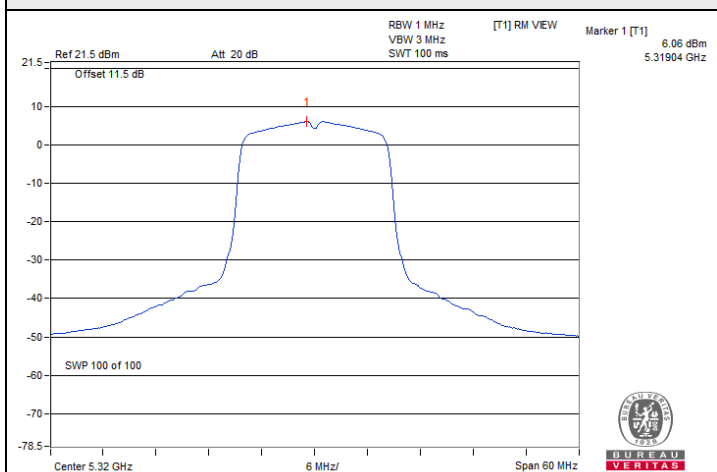
TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	144@54 (U-NII-3)	5720	-3.55	-1.33	3.01	1.68	27.99	Pass
	149@53	5745	2.66	4.88	3.01	7.89	27.99	Pass
	157@53	5785	2.74	4.96	3.01	7.97	27.99	Pass
	165@54	5825	2.73	4.95	3.01	7.96	27.99	Pass
Chain 1	144@54 (U-NII-3)	5720	-3.44	-1.22	3.01	1.79	27.99	Pass
	149@53	5745	2.96	5.18	3.01	8.19	27.99	Pass
	157@53	5785	2.98	5.2	3.01	8.21	27.99	Pass
	165@54	5825	2.98	5.2	3.01	8.21	27.99	Pass

Notes:

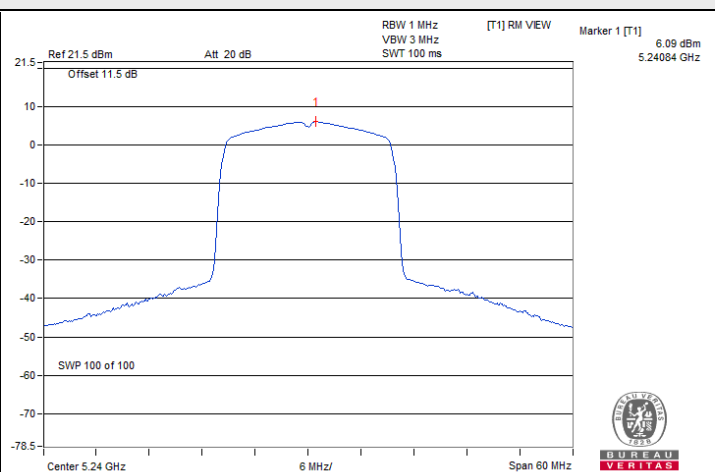
1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 8.01 dBi > 6 dBi, so the power density limit shall be reduced to $30-(8.01-6) = 27.99$ dBm/500kHz.



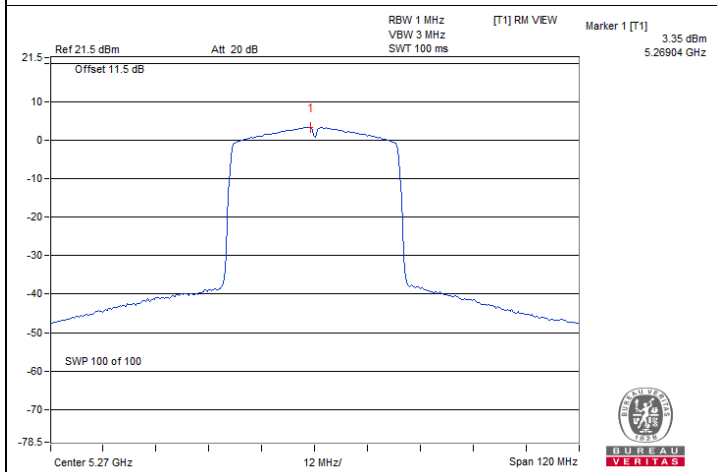
Spectrum Plot of Maximum Value



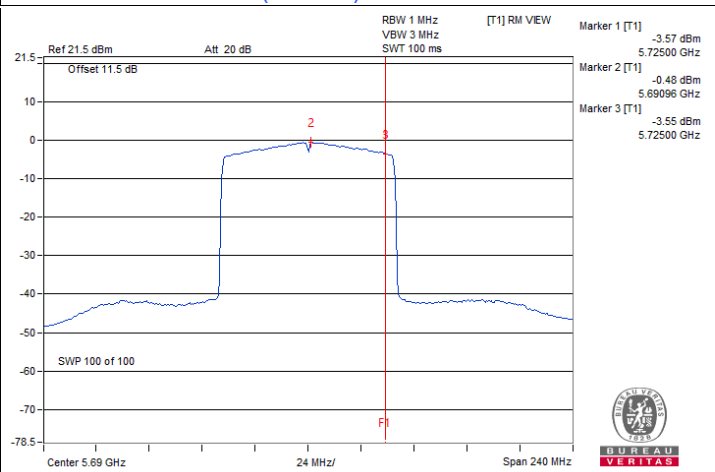
802.11a / Chain 1 : CH 64



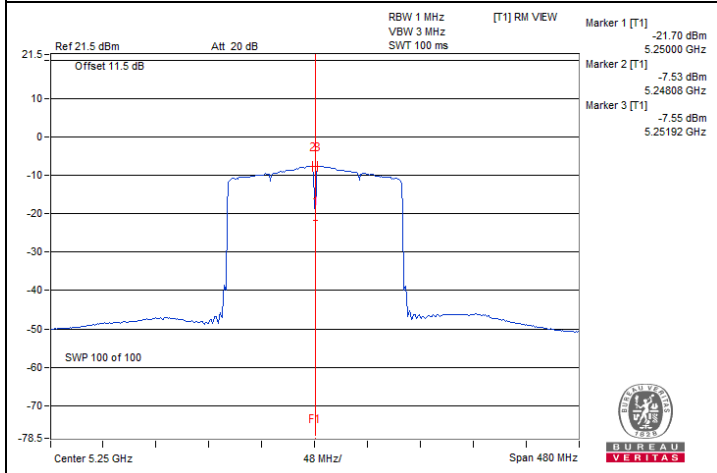
802.11be (EHT20) / Chain 1 : CH 48



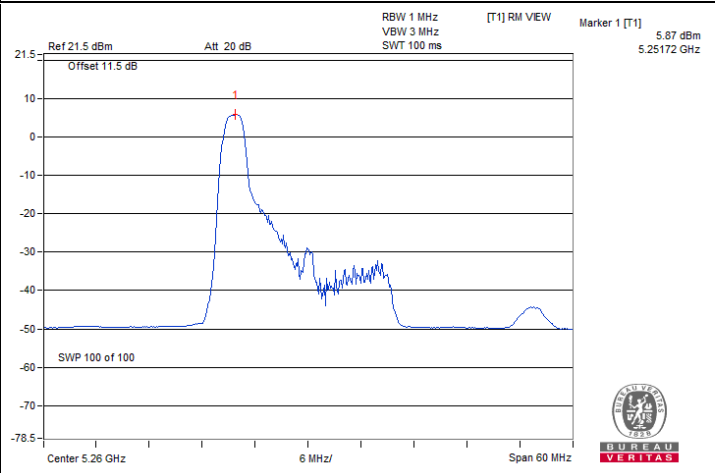
802.11be (EHT40) / Chain 1 : CH 54



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



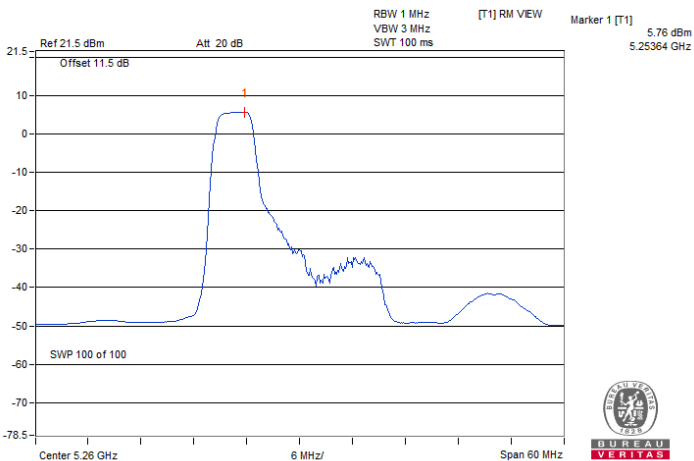
802.11be (EHT160) / Chain 1 : CH 50 (U-NII-1)



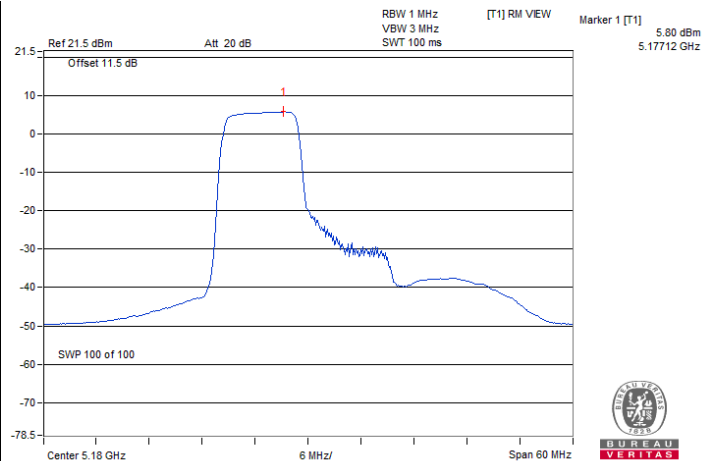
802.11be (EHT20) 26-tone RU / Chain 1 : CH 52@0



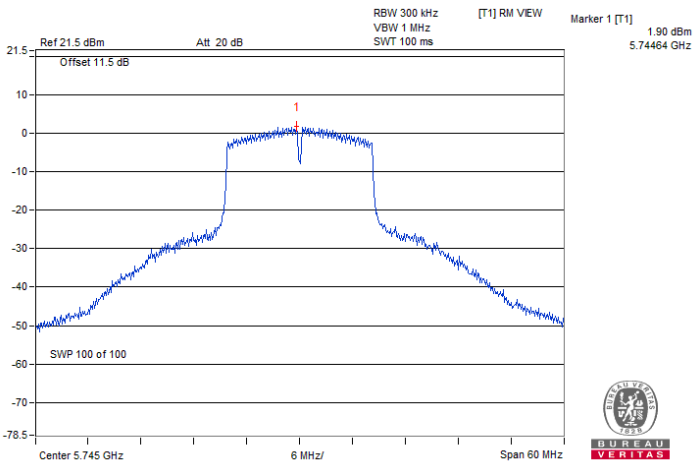
Spectrum Plot of Maximum Value



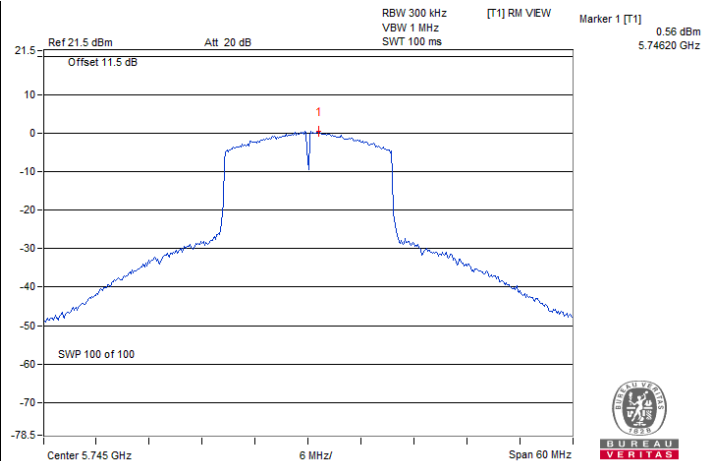
802.11be (EHT20) 52-tone RU / Chain 1 : CH 52@37



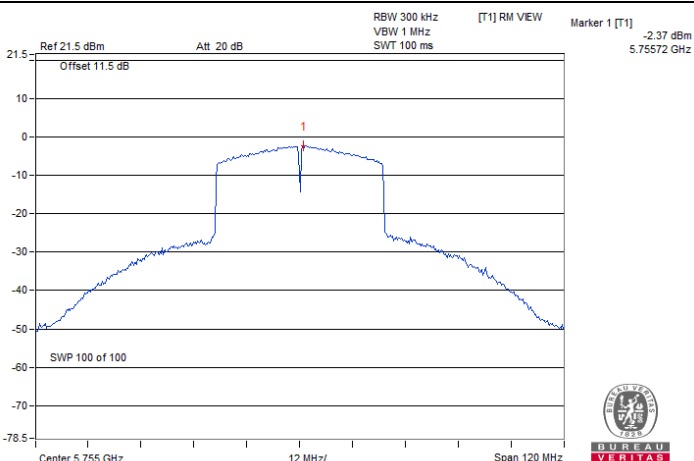
802.11be (EHT20) 106-tone RU / Chain 1 : CH 36@53



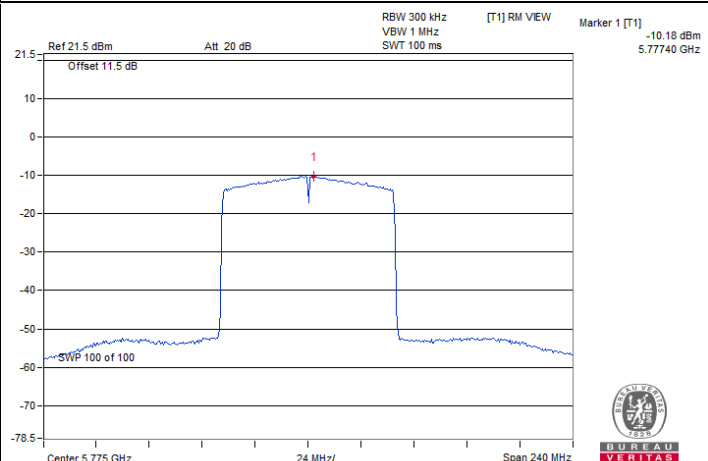
802.11a / Chain 1 : CH 149



802.11be (EHT20) / Chain 1 : CH 149

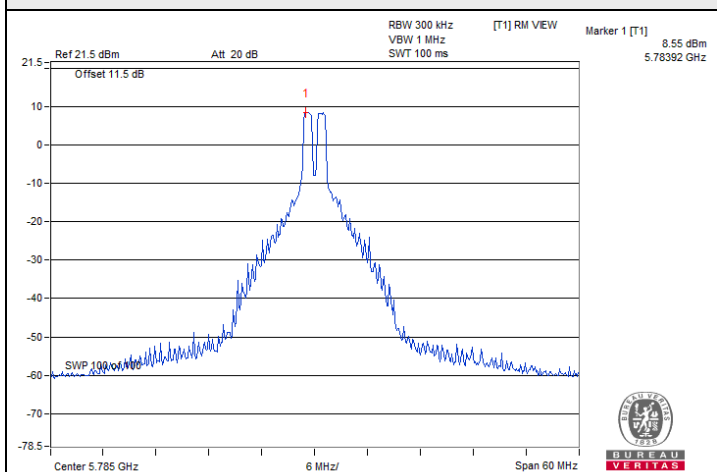


802.11be (EHT40) / Chain 1 : CH 151

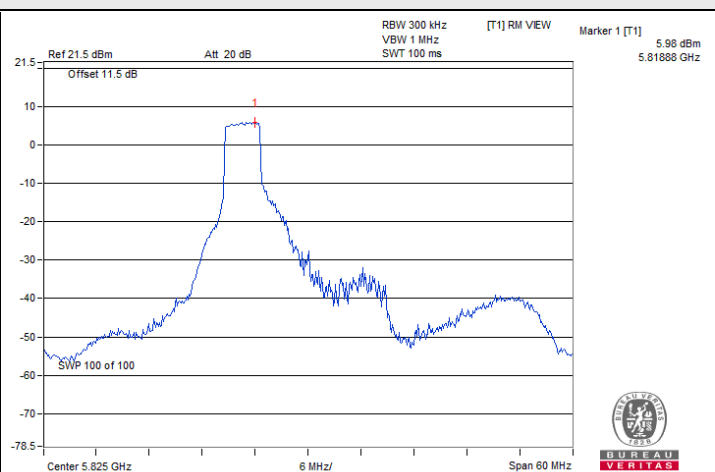


802.11be (EHT80) / Chain 1 : CH 155

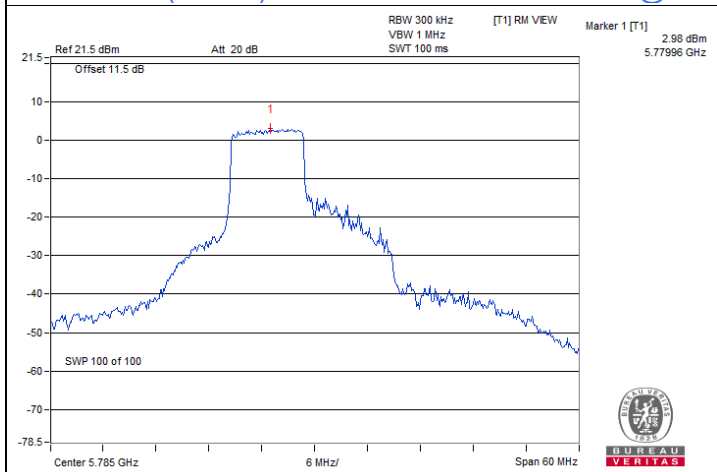
Spectrum Plot of Maximum Value



802.11be (EHT20) 26-tone RU / Chain 1 : CH 157@4



802.11be (EHT20) 52-tone RU / Chain 1 : CH 165@37



802.11be (EHT20) 106-tone RU / Chain 1 : CH 157@53

7.4 6 dB Bandwidth

1Tx

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	2.57	0.5	Pass
149	5745	15.2	0.5	Pass
157	5785	15.21	0.5	Pass
165	5825	15.2	0.5	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	3.55	0.5	Pass
149	5745	16.4	0.5	Pass
157	5785	17.35	0.5	Pass
165	5825	16.42	0.5	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
142 (U-NII-3)	5710	2.63	0.5	Pass
151	5755	35.25	0.5	Pass
159	5795	35.28	0.5	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
138 (U-NII-3)	5690	2.75	0.5	Pass
155	5775	75.47	0.5	Pass



802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	4.49	0.5	Pass
149	5745	2.09	0.5	Pass
157	5785	2.74	0.5	Pass
165	5825	14.58	0.5	Pass

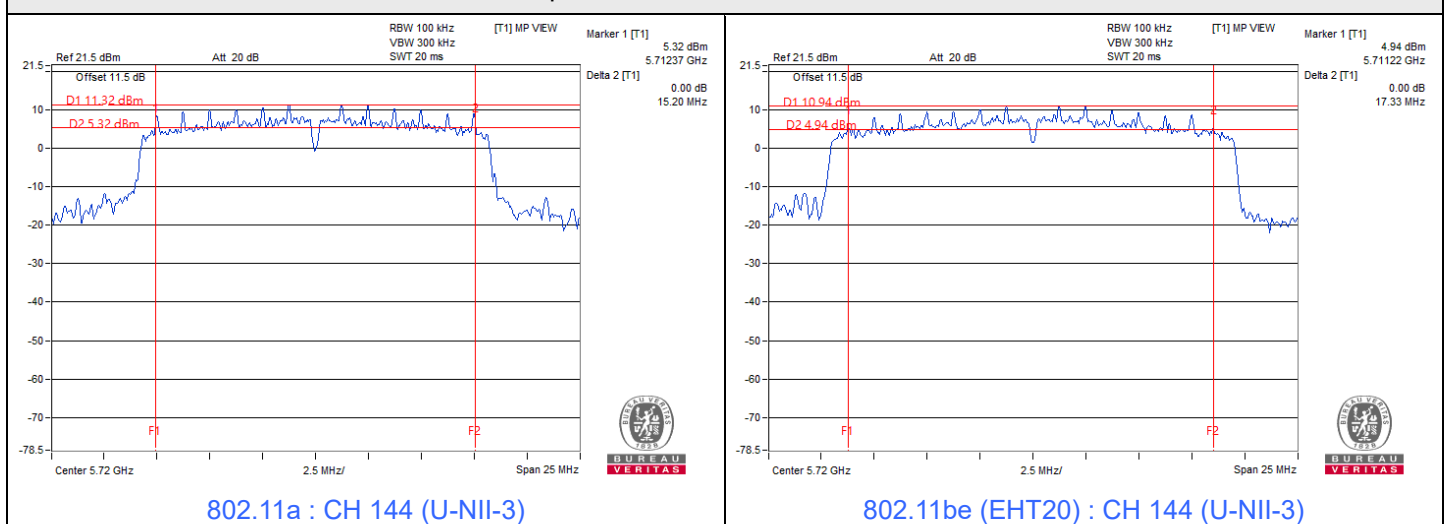
802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	4.49	0.5	Pass
149	5745	17.1	0.5	Pass
157	5785	15.15	0.5	Pass
165	5825	17.09	0.5	Pass

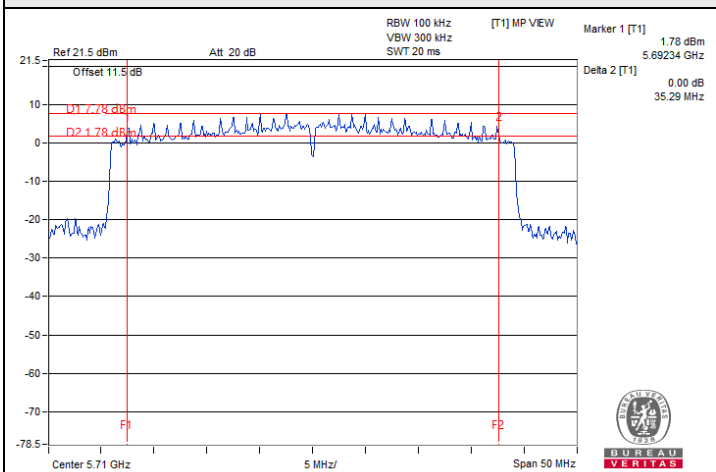
802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	4.57	0.5	Pass
149	5745	17.2	0.5	Pass
157	5785	17.19	0.5	Pass
165	5825	17.2	0.5	Pass

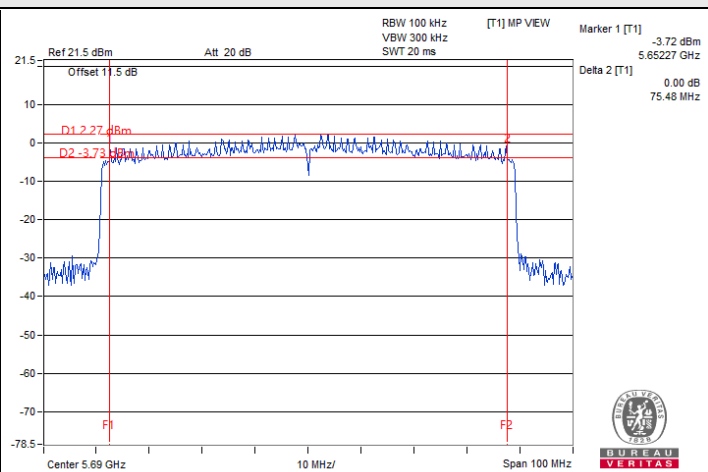
Spectrum Plot of Minimum Value



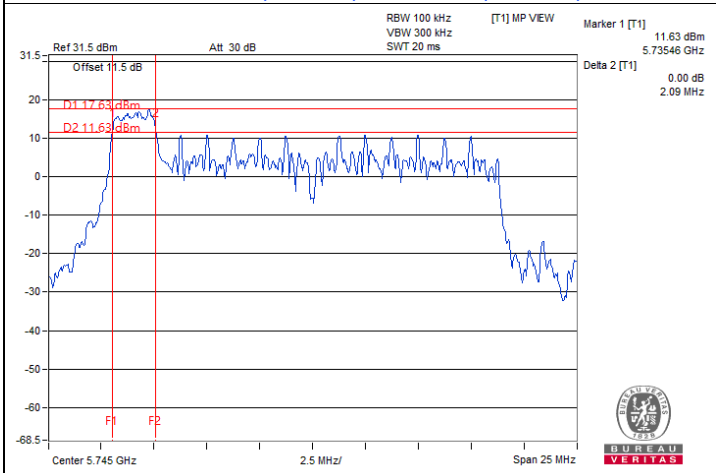
Spectrum Plot of Minimum Value



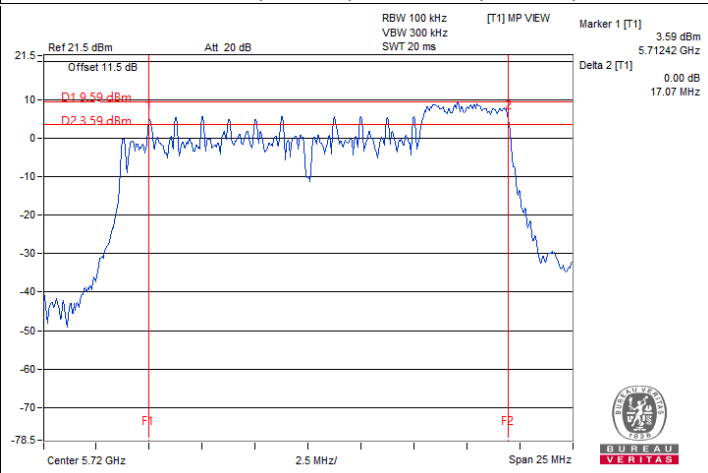
802.11be (EHT40) : CH 142 (U-NII-3)



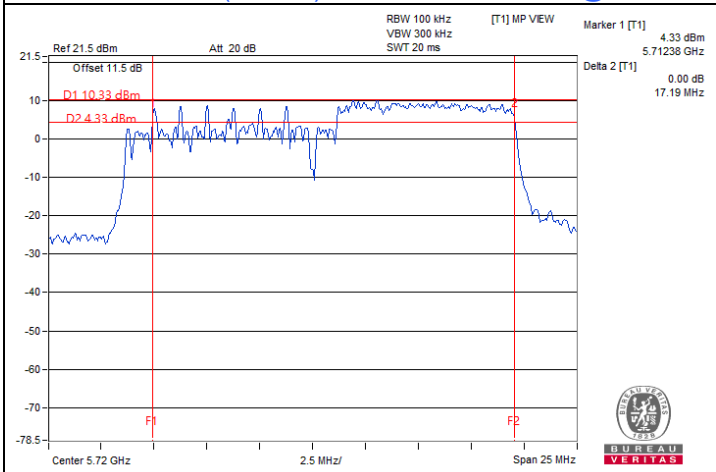
802.11be (EHT80) : CH 138 (U-NII-3)



802.11be (EHT20) 26-tone RU : CH 149@0



802.11be (EHT20) 52-tone RU : CH 144@40 (U-NII-3)



802.11be (EHT20) 106-tone RU : CH 144@54 (U-NII-3)

Note: For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

2Tx

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	2.58	2.57	0.5	Pass
149	5745	15.17	15.17	0.5	Pass
157	5785	15.20	15.20	0.5	Pass
165	5825	15.20	15.18	0.5	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	3.76	3.91	0.5	Pass
149	5745	16.38	16.41	0.5	Pass
157	5785	16.82	16.36	0.5	Pass
165	5825	16.38	16.37	0.5	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	2.61	3.11	0.5	Pass
151	5755	35.27	35.22	0.5	Pass
159	5795	35.28	35.23	0.5	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	2.77	2.76	0.5	Pass
155	5775	75.56	75.47	0.5	Pass



802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	4.50	4.49	0.5	Pass
149	5745	14.52	14.58	0.5	Pass
157	5785	2.71	2.71	0.5	Pass
165	5825	14.57	14.57	0.5	Pass

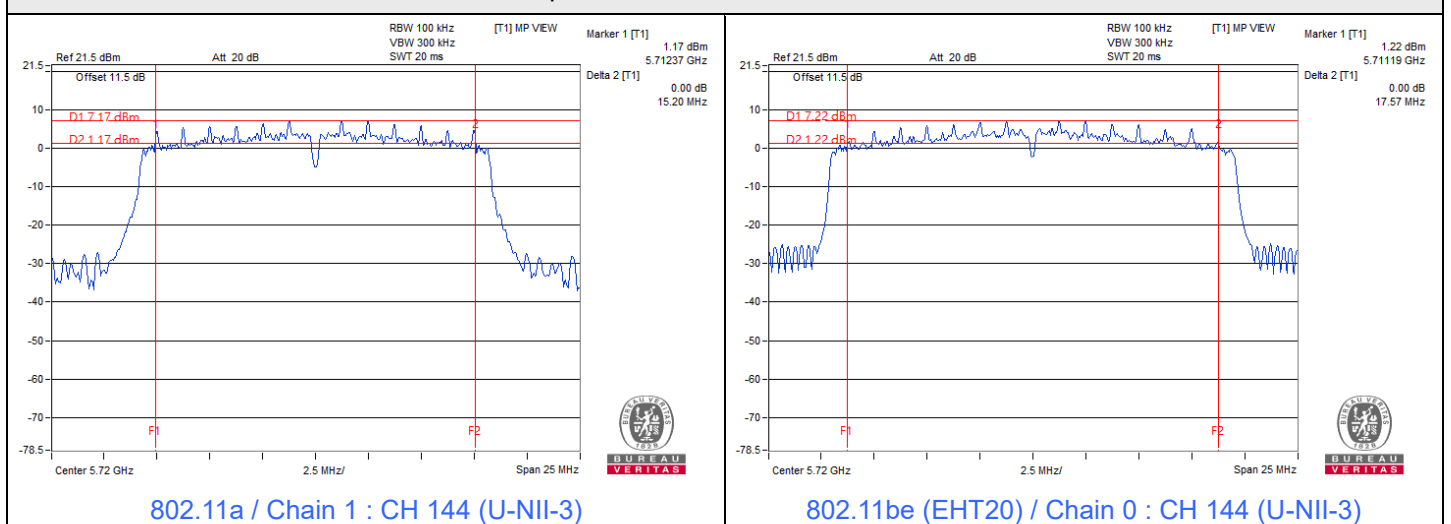
802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	4.47	4.50	0.5	Pass
149	5745	17.09	17.10	0.5	Pass
157	5785	15.16	15.16	0.5	Pass
165	5825	17.11	17.11	0.5	Pass

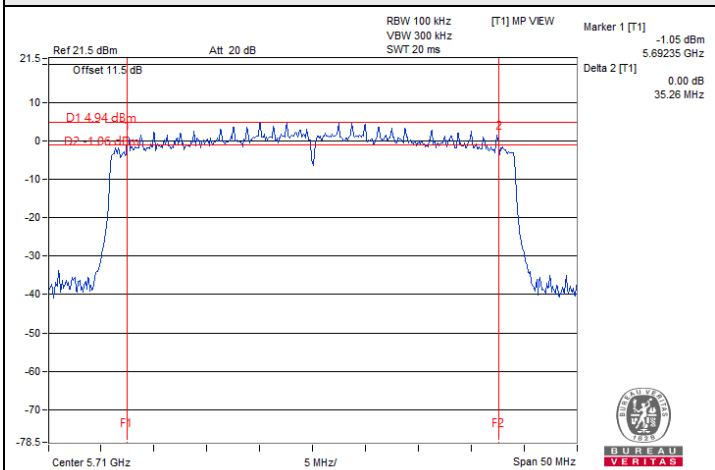
802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	4.55	4.55	0.5	Pass
149	5745	17.14	17.17	0.5	Pass
157	5785	17.20	17.21	0.5	Pass
165	5825	17.19	17.40	0.5	Pass

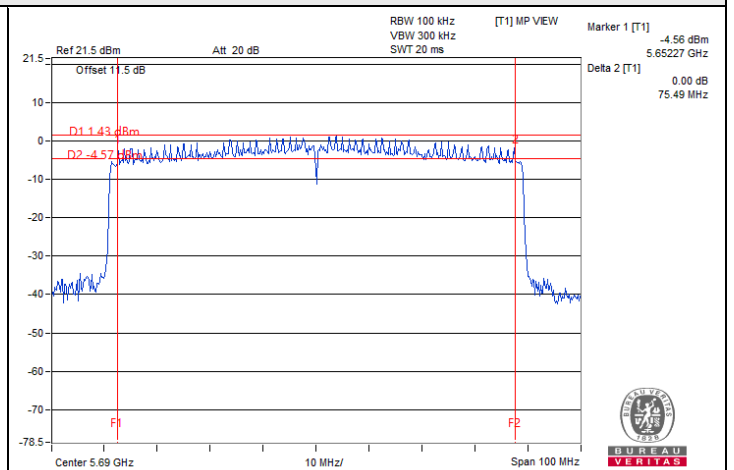
Spectrum Plot of Minimum Value



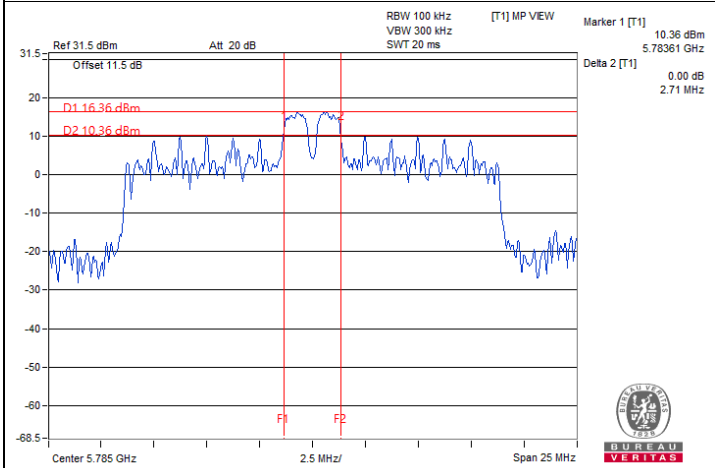
Spectrum Plot of Minimum Value



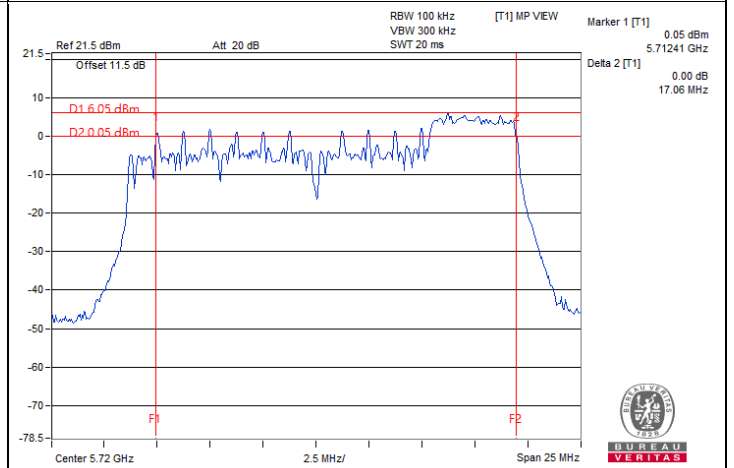
802.11be (EHT40) / Chain 0 : CH 142 (U-NII-3)



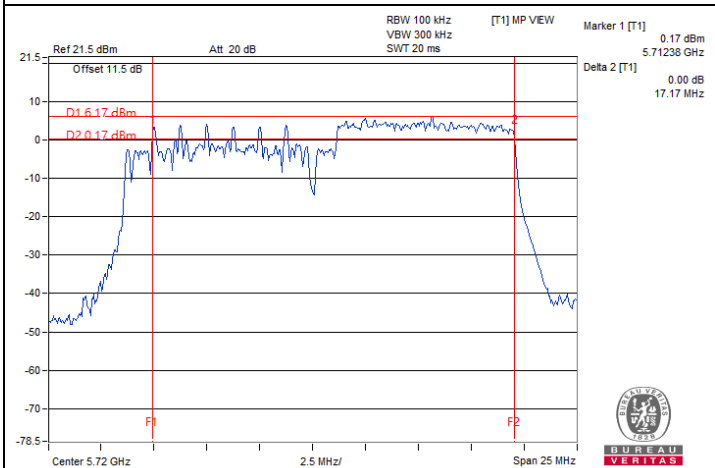
802.11be (EHT80) / Chain 1 : CH 138 (U-NII-3)



802.11be (EHT20) 26-tone RU / Chain 0 : CH 157@4



802.11be (EHT20) 52-tone RU / Chain 0 : CH 144@40 (U-NII-3)



802.11be (EHT20) 106-tone RU / Chain 0 : CH 144@54 (U-NII-3)

Note: For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

7.5 Occupied Bandwidth

1Tx

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	16.44
40	5200	16.44
48	5240	16.56
52	5260	16.8
60	5300	16.56
64	5320	16.44
100	5500	16.44
116	5580	16.44
140	5700	16.2
144 (U-NII-2C)	5720	13.52
144 (U-NII-3)	5720	3.28
149	5745	16.92
157	5785	16.44
165	5825	16.44

802.11be (EHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.84
40	5200	18.84
48	5240	18.84
52	5260	18.96
60	5300	18.84
64	5320	18.84
100	5500	18.84
116	5580	18.84
140	5700	18.84
144 (U-NII-2C)	5720	14.6
144 (U-NII-3)	5720	4.36
149	5745	18.84
157	5785	18.96
165	5825	18.84

802.11be (EHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	37.68
46	5230	38.16
54	5270	38.16
62	5310	37.68
102	5510	37.68
110	5550	38.4
134	5670	37.68
142 (U-NII-2C)	5710	34.2
142 (U-NII-3)	5710	3.96
151	5755	38.16
159	5795	38.16

802.11be (EHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	76.8
58	5290	76.8
106	5530	76.8
122	5610	77.28
138 (U-NII-2C)	5690	73.88
138 (U-NII-3)	5690	3.4
155	5775	77.28

802.11be (EHT160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
50 (U-NII-1)	5250	78.72
50 (U-NII-2A)	5250	77.76
114	5570	155.52

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.24
40	5200	16.92
48	5240	18.24
52	5260	18.24
60	5300	16.92
64	5320	18.24
100	5500	18.24
116	5580	16.8
140	5700	18.24
144 (U-NII-2C)	5720	13.52
144 (U-NII-3)	5720	4.6
149	5745	18.26
157	5785	17.04
165	5825	18.24

802.11be (EHT20) 52-tone RU

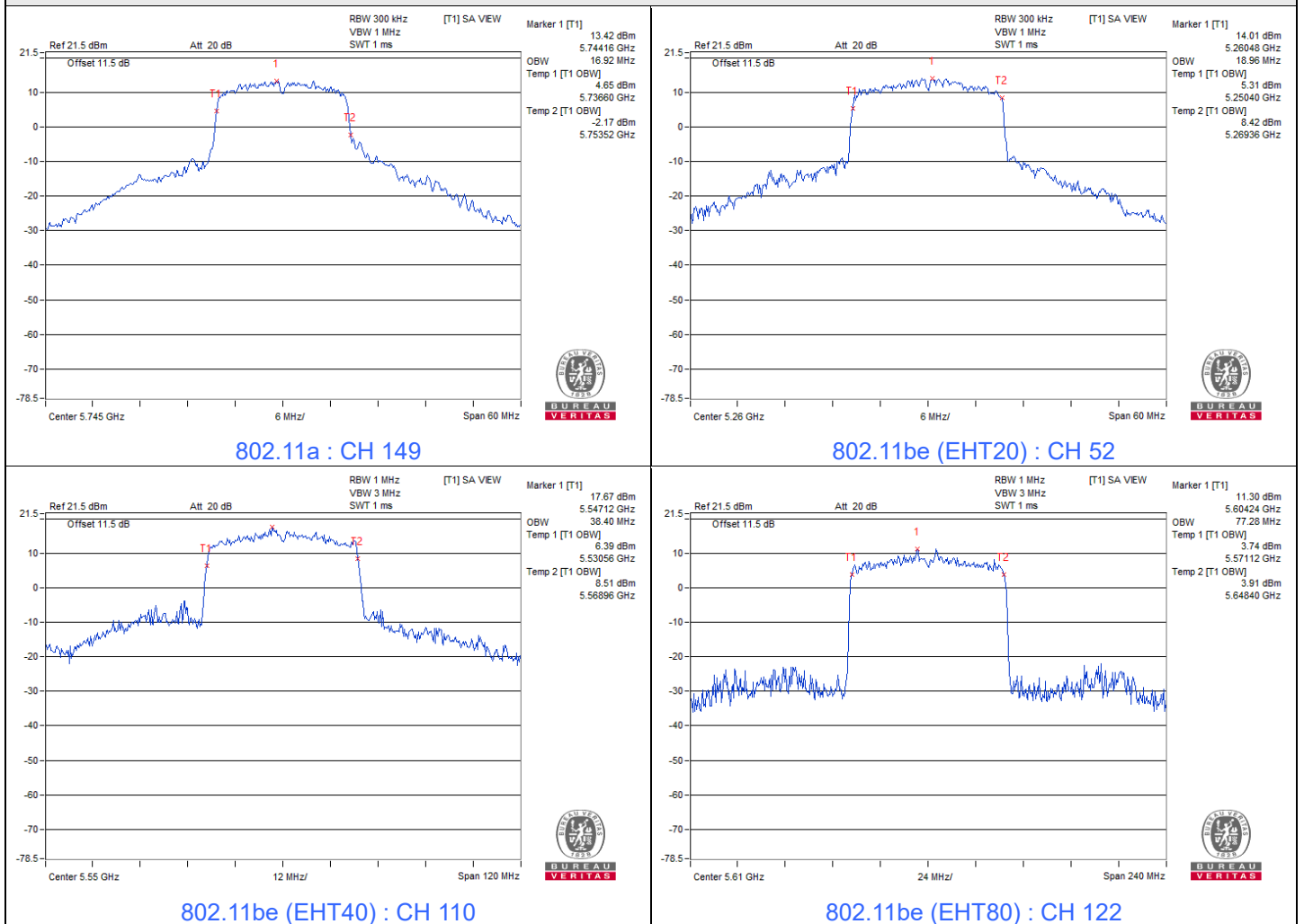
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18
40	5200	17.04
48	5240	18.12
52	5260	18.24
60	5300	17.04
64	5320	18.12
100	5500	18
116	5580	17.04
140	5700	18.12
144 (U-NII-2C)	5720	13.52
144 (U-NII-3)	5720	4.6
149	5745	18.35
157	5785	17.16
165	5825	18.24



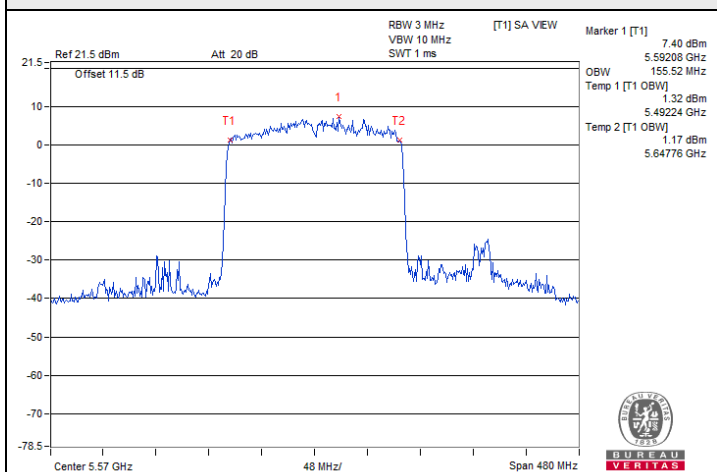
802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.12
40	5200	18.12
48	5240	18
52	5260	18.12
60	5300	18.12
64	5320	18
100	5500	18.12
116	5580	18.12
140	5700	18
144 (U-NII-2C)	5720	13.64
144 (U-NII-3)	5720	4.6
149	5745	18.12
157	5785	18.48
165	5825	18.24

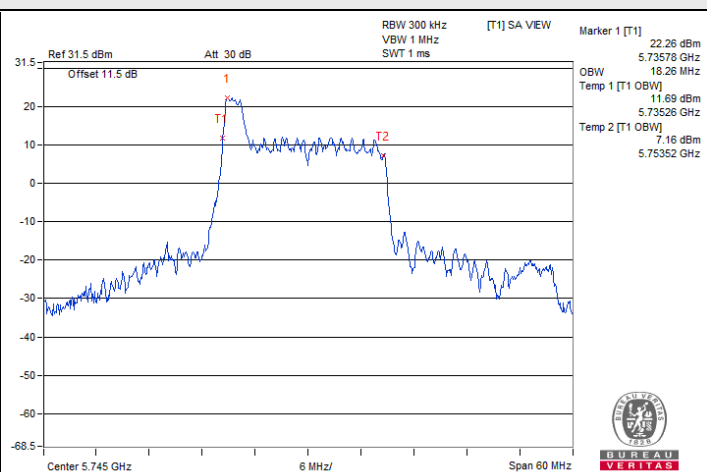
Spectrum Plot of Maximum Value



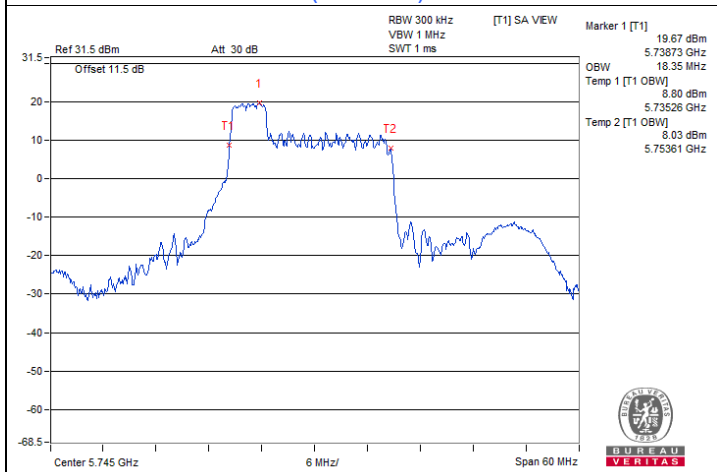
Spectrum Plot of Maximum Value



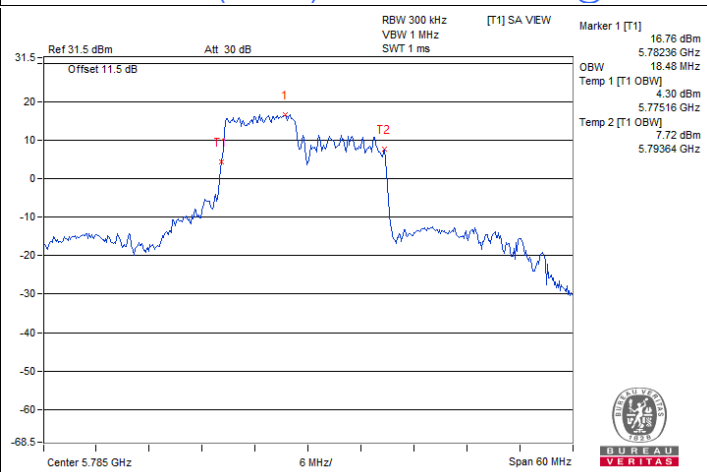
802.11be (EHT160) : CH 114



802.11be (EHT20) 26-tone RU : CH 149@0

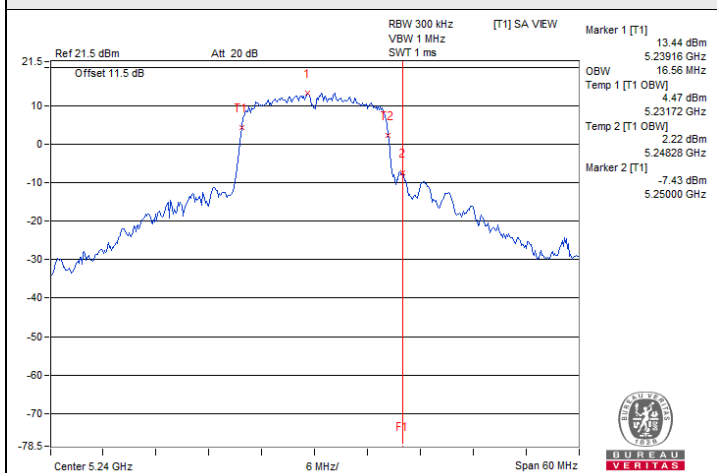


802.11be (EHT20) 52-tone RU : CH 149@37

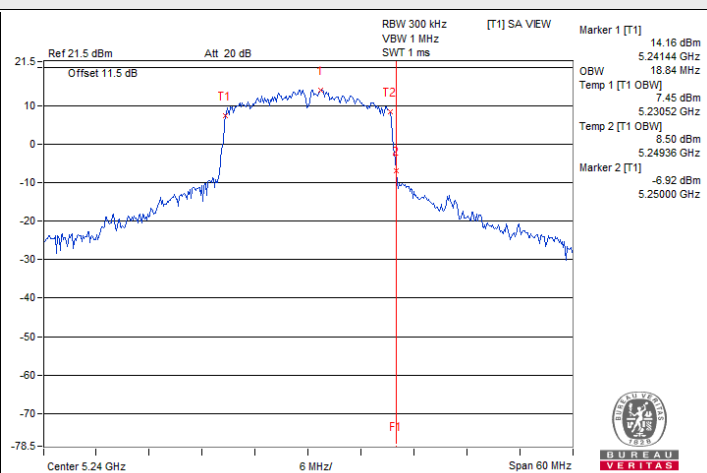


802.11be (EHT20) 106-tone RU : CH 157@53

Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



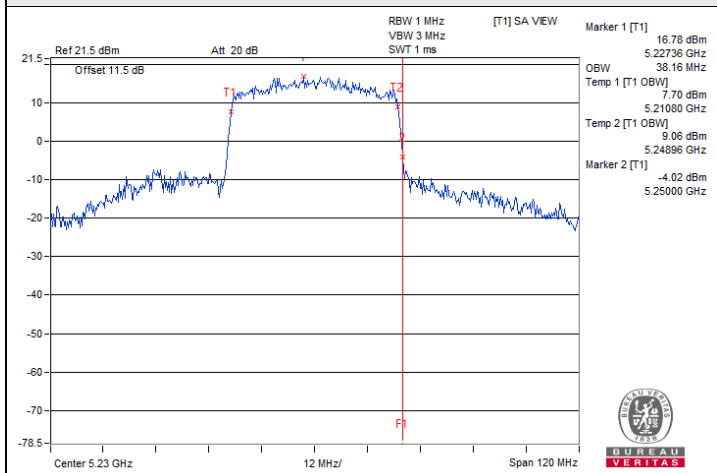
802.11a : CH 48



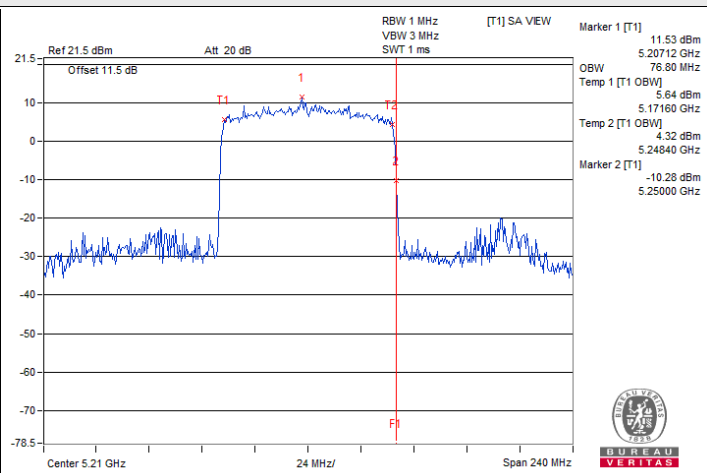
802.11be (EHT20) : CH 48



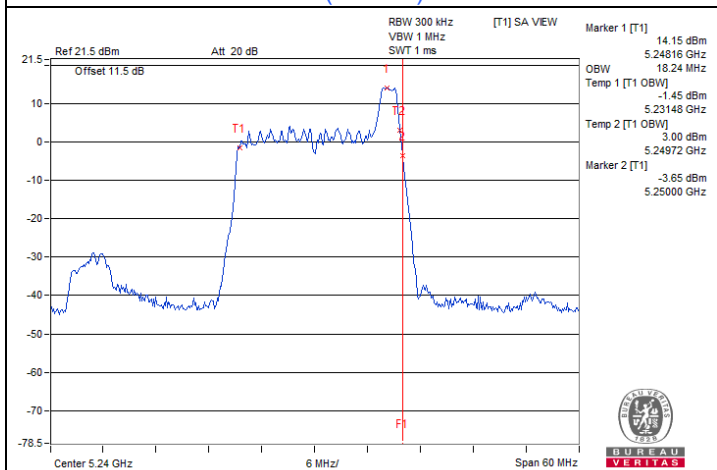
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



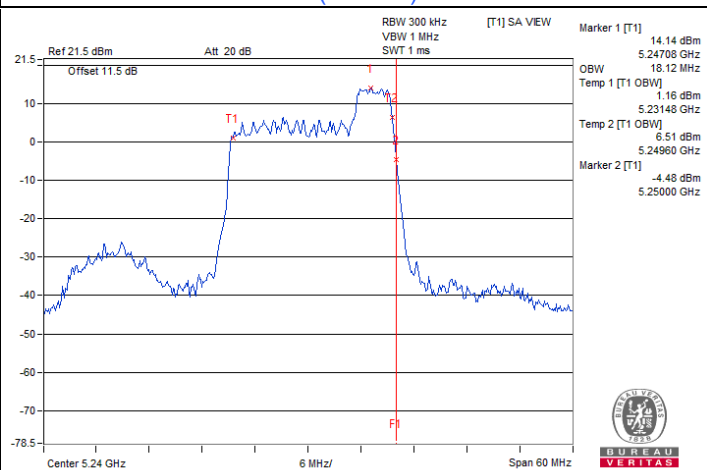
802.11be (EHT40) : CH 46



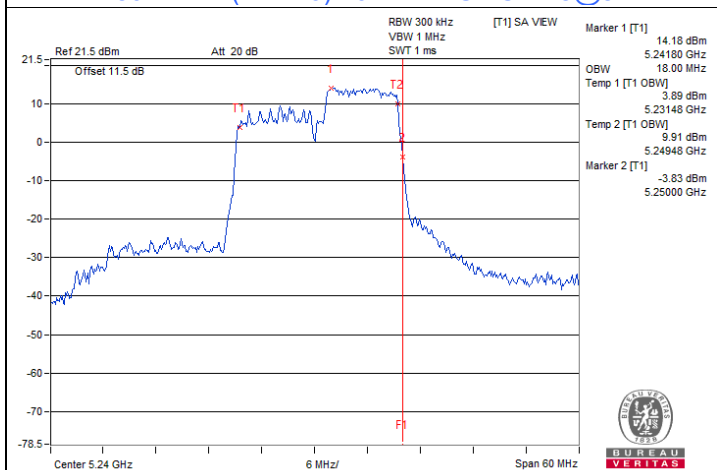
802.11be (EHT80) : CH 42



802.11be (EHT20) 26-tone RU : CH 48@8



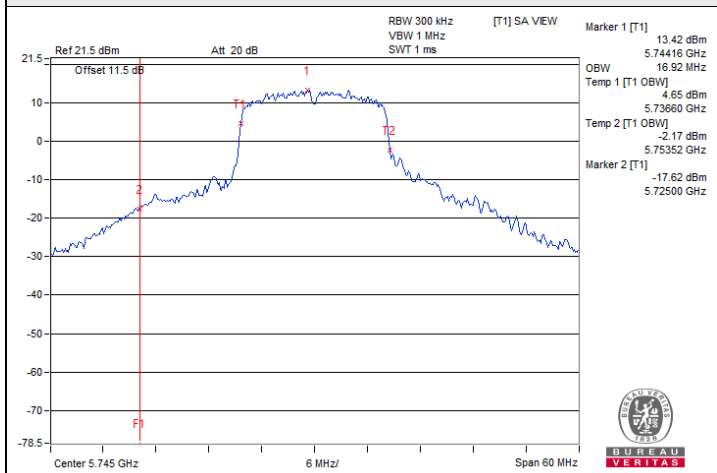
802.11be (EHT20) 52-tone RU : CH 48@40



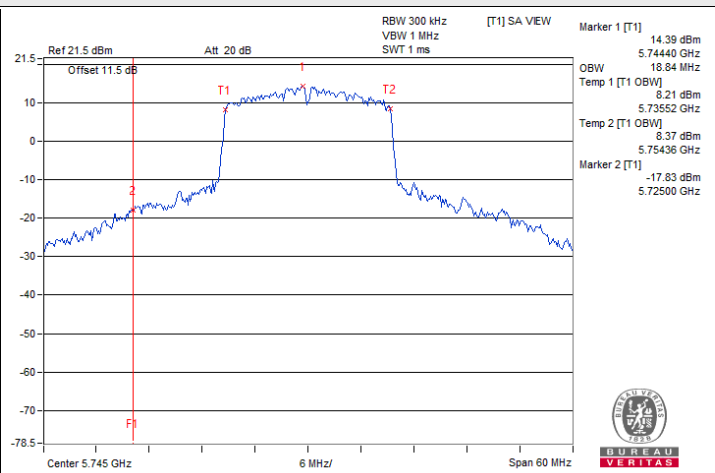
802.11be (EHT20) 106-tone RU : CH 48@54



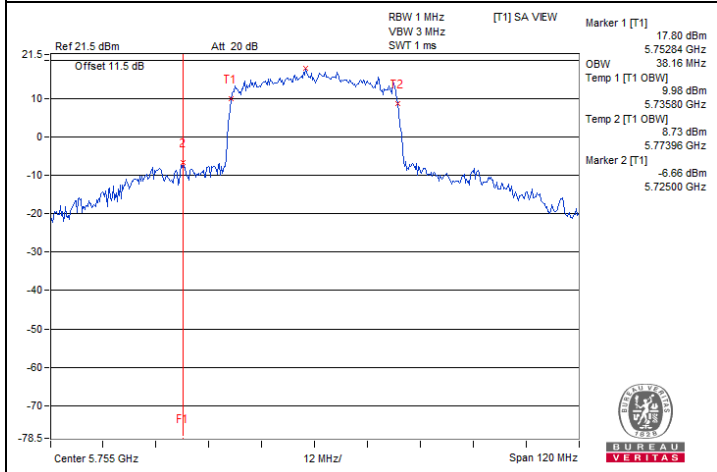
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



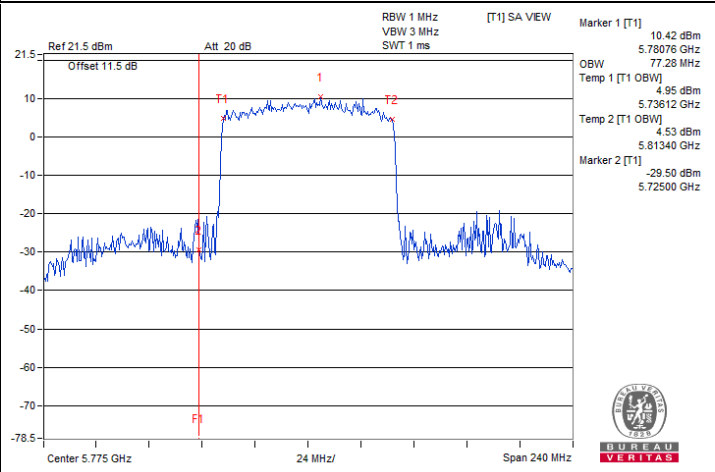
802.11a : CH 149



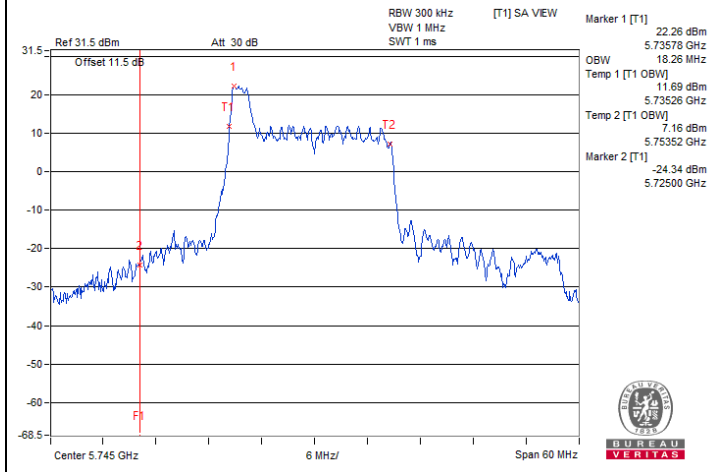
802.11be (EHT20) : CH 149



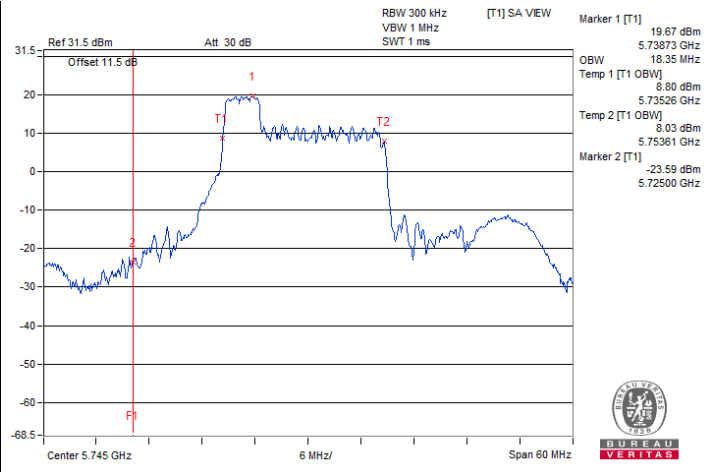
802.11be (EHT40) : CH 151



802.11be (EHT80) : CH 155



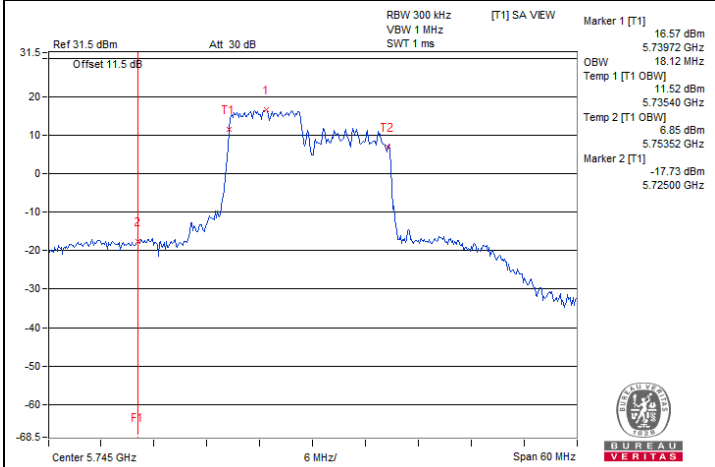
802.11be (EHT20) 26-tone RU : CH 149@0



802.11be (EHT20) 52-tone RU : CH 149@37



Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



802.11be (EHT20) 106-tone RU : CH 149@53

2Tx

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.20	16.20
40	5200	16.20	16.20
48	5240	16.20	16.44
52	5260	16.20	16.20
60	5300	16.20	16.44
64	5320	16.20	16.20
100	5500	16.20	16.20
116	5580	16.20	16.20
140	5700	16.20	16.20
144 (U-NII-2C)	5720	13.16	13.16
144 (U-NII-3)	5720	3.04	3.04
149	5745	16.69	16.70
157	5785	16.44	16.68
165	5825	16.56	17.04

802.11be (EHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.84	18.84
40	5200	18.84	18.84
48	5240	18.84	18.72
52	5260	18.84	18.84
60	5300	18.84	18.84
64	5320	18.84	18.84
100	5500	18.84	18.84
116	5580	18.84	18.84
140	5700	18.72	18.84
144 (U-NII-2C)	5720	14.48	14.48
144 (U-NII-3)	5720	4.36	4.36
149	5745	18.96	18.96
157	5785	18.96	18.96
165	5825	18.84	18.84

802.11be (EHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.68	37.68
46	5230	37.68	37.92
54	5270	37.68	37.68
62	5310	37.68	37.44
102	5510	38.16	37.68
110	5550	37.92	37.68
134	5670	37.92	37.92
142 (U-NII-2C)	5710	33.72	33.72
142 (U-NII-3)	5710	3.72	3.72
151	5755	38.64	38.64
159	5795	38.40	38.64

802.11be (EHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	76.80	77.76
58	5290	76.80	76.80
106	5530	76.80	76.80
122	5610	77.28	76.80
138 (U-NII-2C)	5690	73.40	73.40
138 (U-NII-3)	5690	3.40	3.40
155	5775	77.28	76.80

802.11be (EHT160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	78.72	78.72
50 (U-NII-2A)	5250	77.76	77.76
114	5570	156.48	156.48

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.24	18.24
40	5200	17.04	16.80
48	5240	18.12	18.24
52	5260	18.24	18.24
60	5300	16.80	17.04
64	5320	18.24	18.36
100	5500	18.12	18.12
116	5580	16.92	16.92
140	5700	18.12	18.12
144 (U-NII-2C)	5720	13.52	13.52
144 (U-NII-3)	5720	4.60	4.60
149	5745	18.35	18.44
157	5785	16.92	17.04
165	5825	18.24	18.36

802.11be (EHT20) 52-tone RU

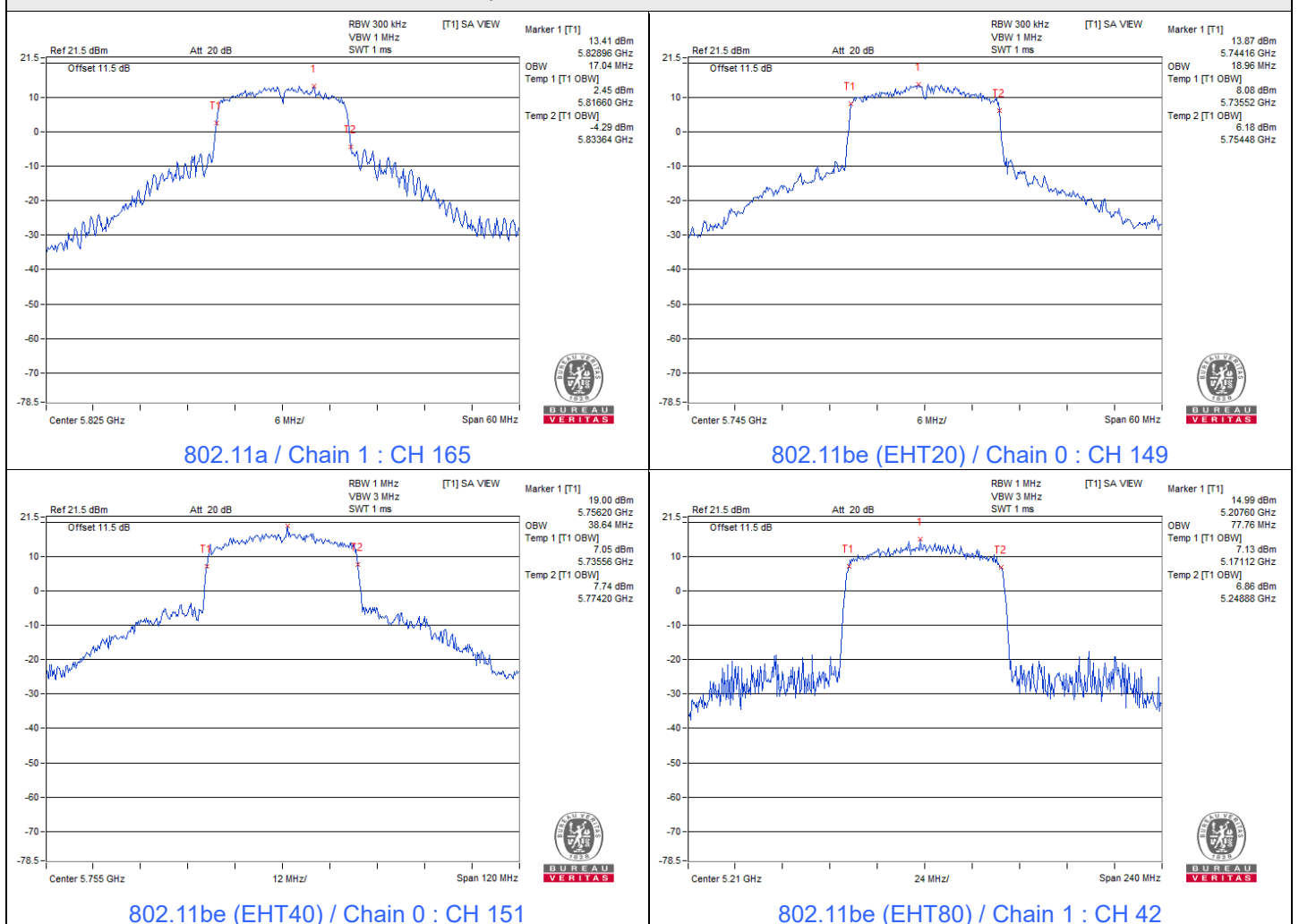
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.12	18.12
40	5200	17.04	17.04
48	5240	18.00	18.12
52	5260	18.12	18.12
60	5300	17.04	17.04
64	5320	18.12	18.12
100	5500	18.00	18.00
116	5580	17.04	17.04
140	5700	18.12	18.00
144 (U-NII-2C)	5720	13.52	13.52
144 (U-NII-3)	5720	4.48	4.60
149	5745	18.24	18.36
157	5785	17.04	16.92
165	5825	18.24	18.24



802.11be (EHT20) 106-tone RU

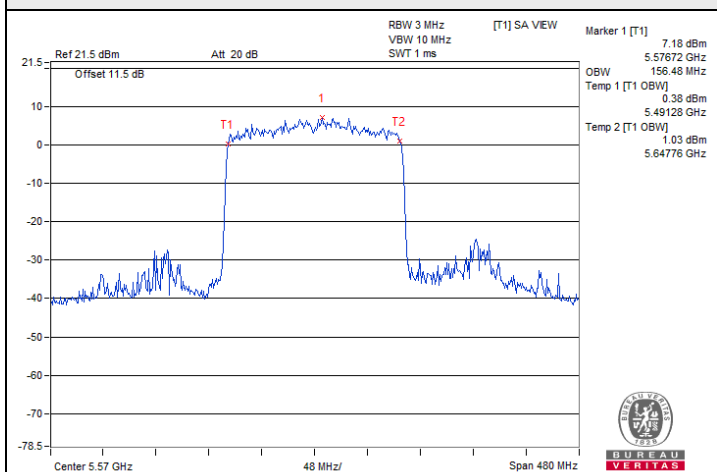
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.12	18.12
40	5200	18.12	18.12
48	5240	18.12	18.00
52	5260	18.12	18.12
60	5300	18.12	18.12
64	5320	18.00	18.00
100	5500	18.12	18.12
116	5580	18.12	18.12
140	5700	18.00	18.00
144 (U-NII-2C)	5720	13.52	13.52
144 (U-NII-3)	5720	4.48	4.48
149	5745	18.17	18.26
157	5785	18.24	18.24
165	5825	18.24	18.24

Spectrum Plot of Maximum Value

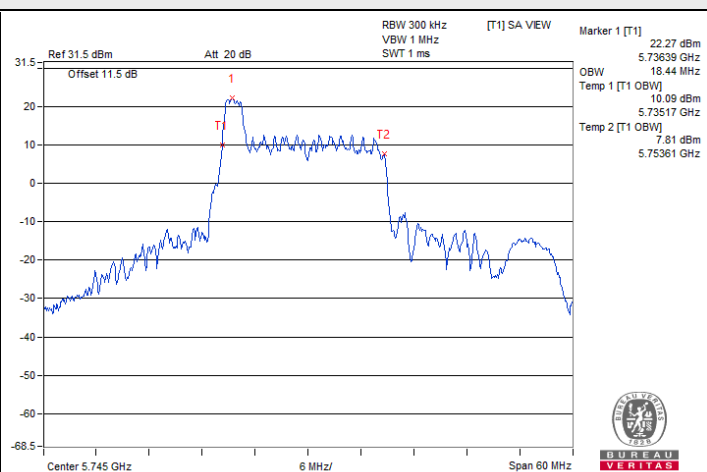




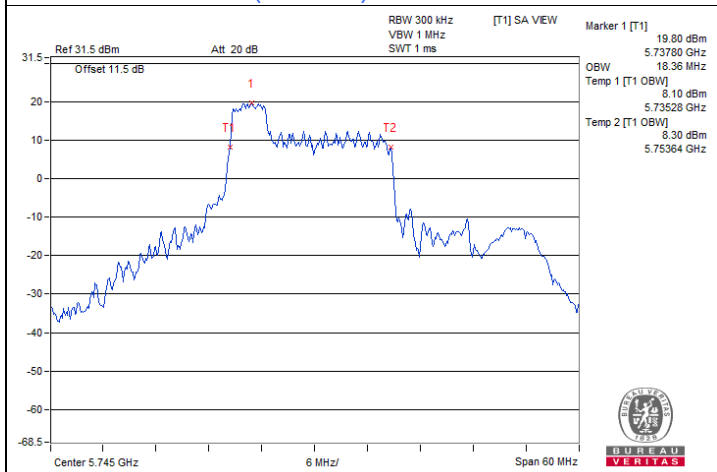
Spectrum Plot of Maximum Value



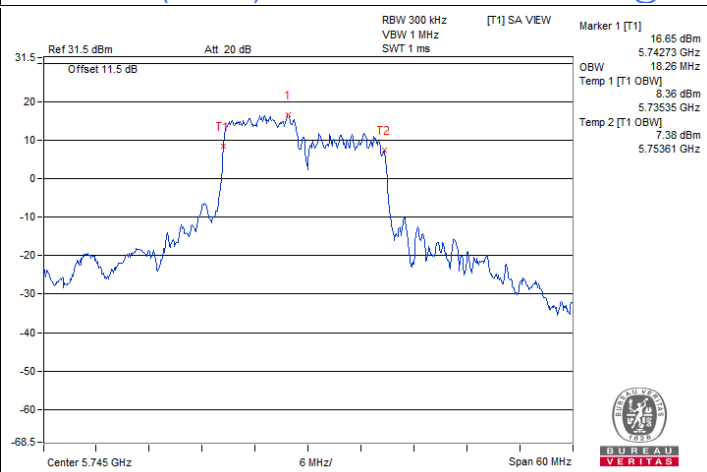
802.11be (EHT160) / Chain 0 : CH 114



802.11be (EHT20) 26-tone RU / Chain 1 : CH 149@0

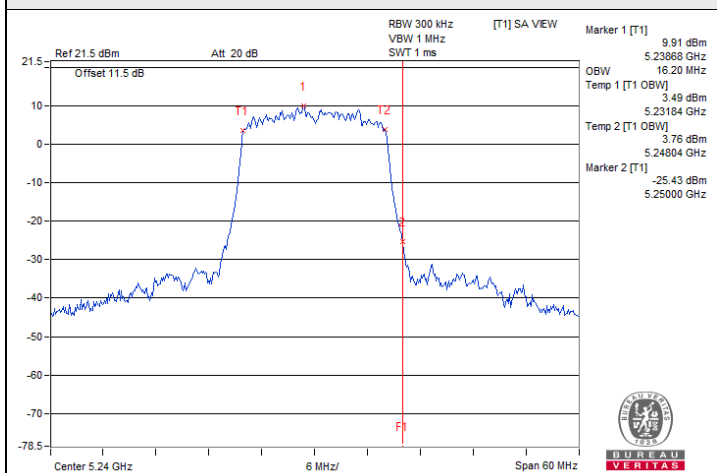


802.11be (EHT20) 52-tone RU / Chain 1 : CH 149@37

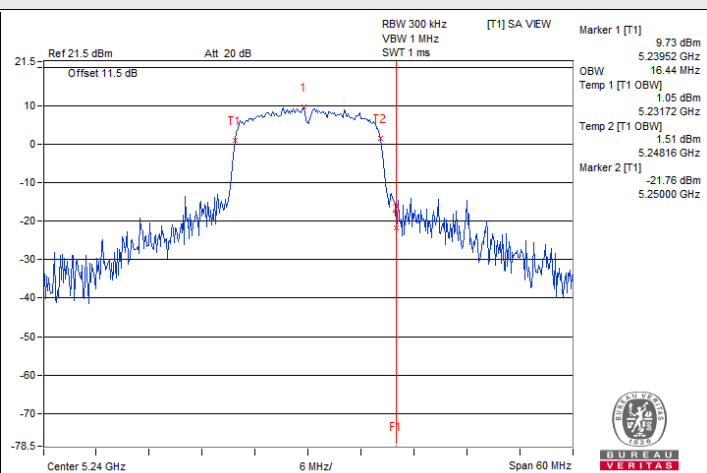


802.11be (EHT20) 106-tone RU / Chain 1 : CH 149@53

Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



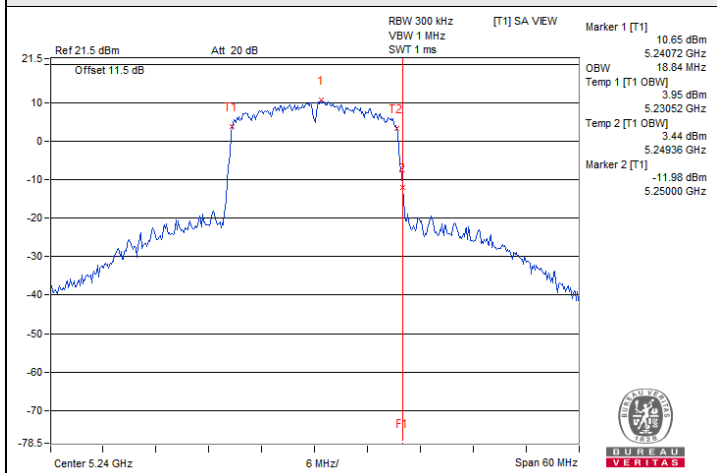
802.11a / Chain 0 : CH 48



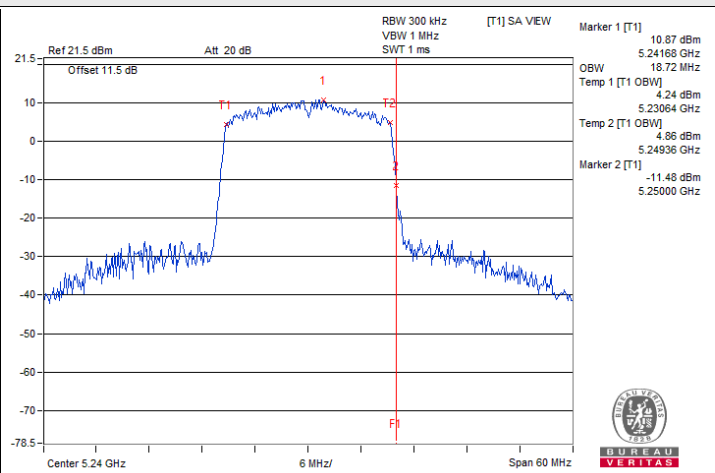
802.11a / Chain 1 : CH 48



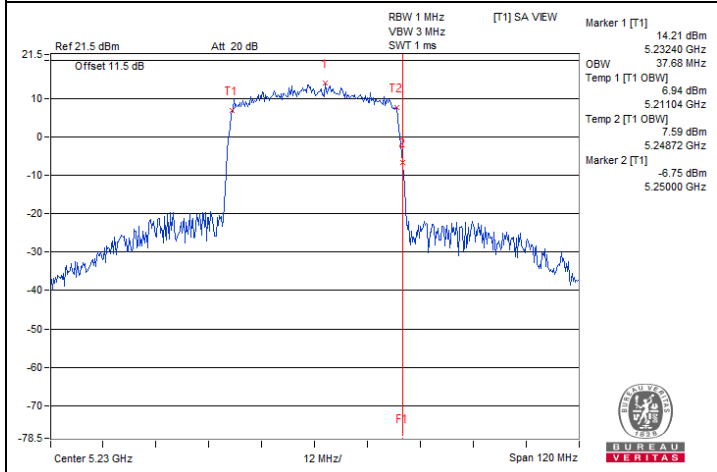
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



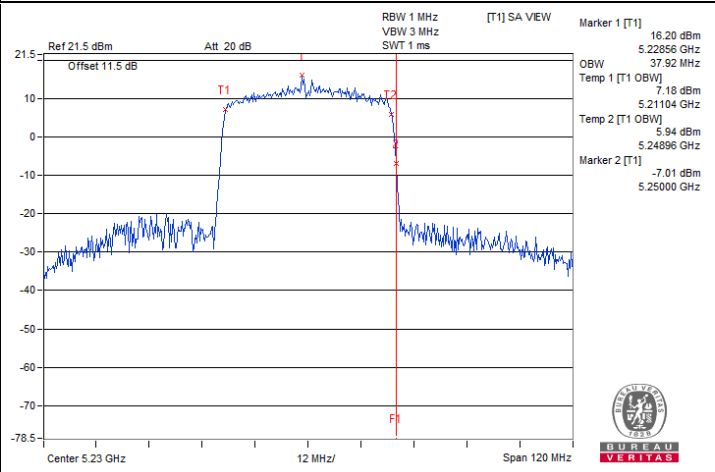
802.11be (EHT20) / Chain 0 : CH 48



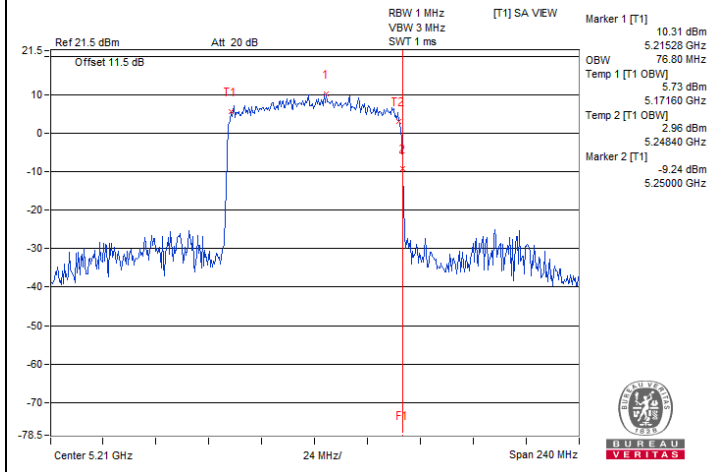
802.11be (EHT20) / Chain 1 : CH 48



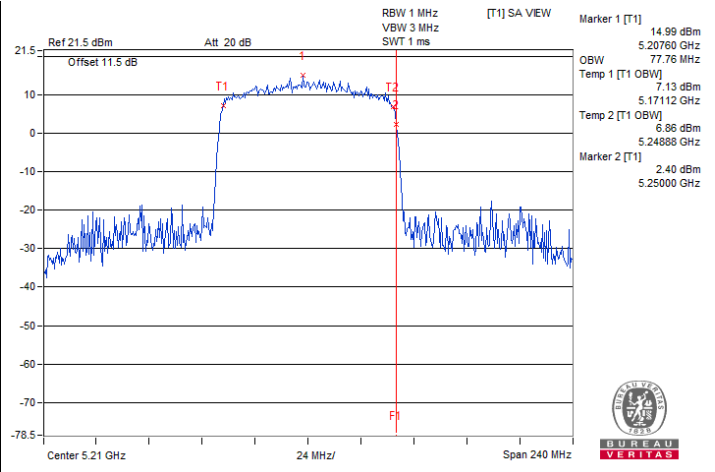
802.11be (EHT40) / Chain 0 : CH 46



802.11be (EHT40) / Chain 1 : CH 46

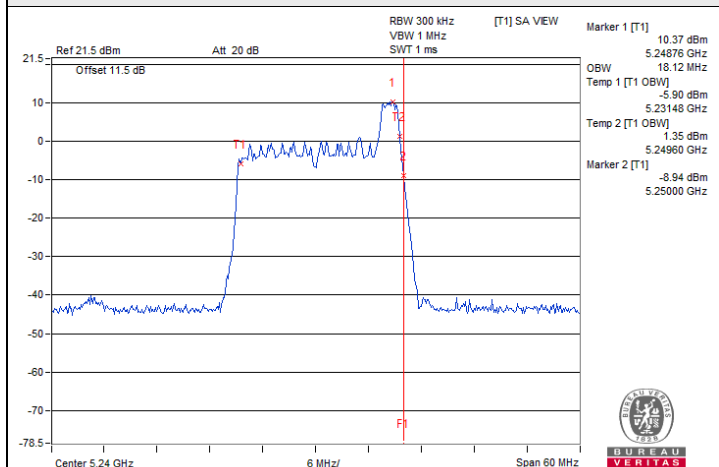
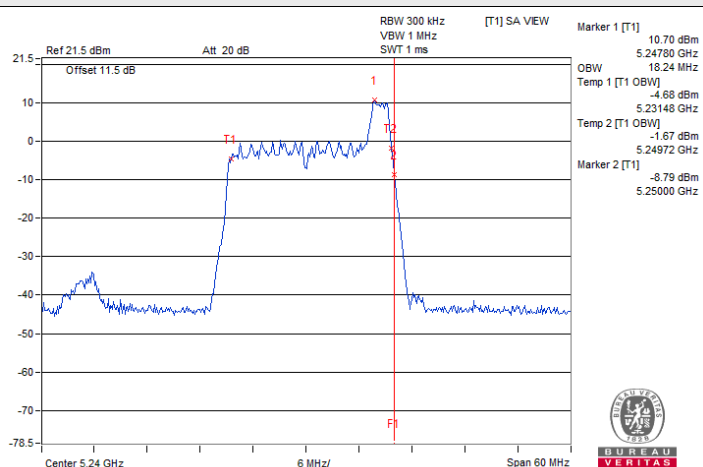
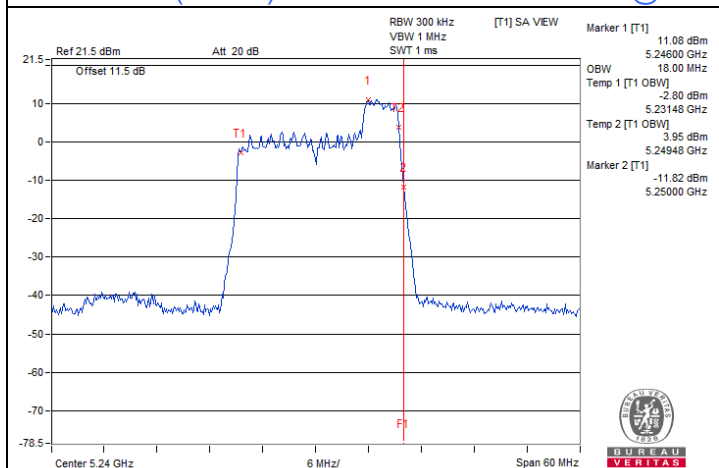
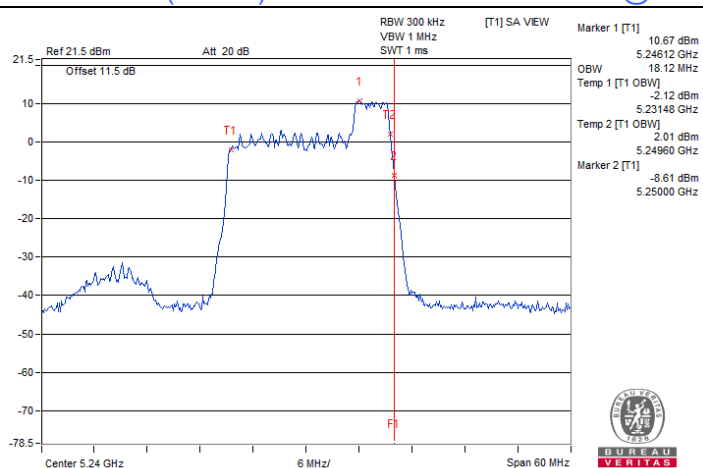
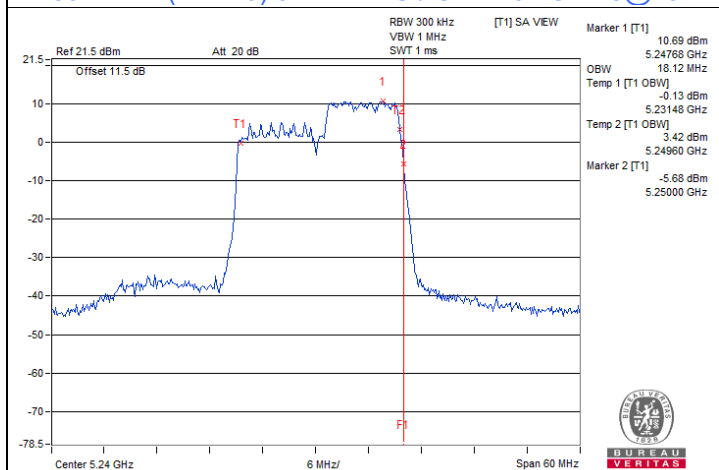
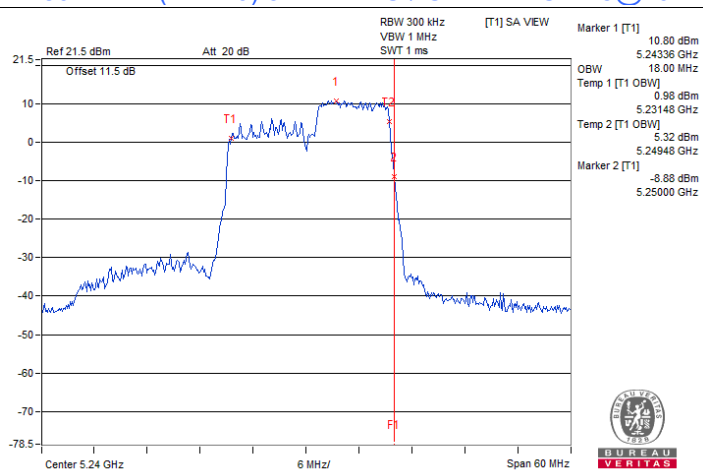


802.11be (EHT80) / Chain 0 : CH 42



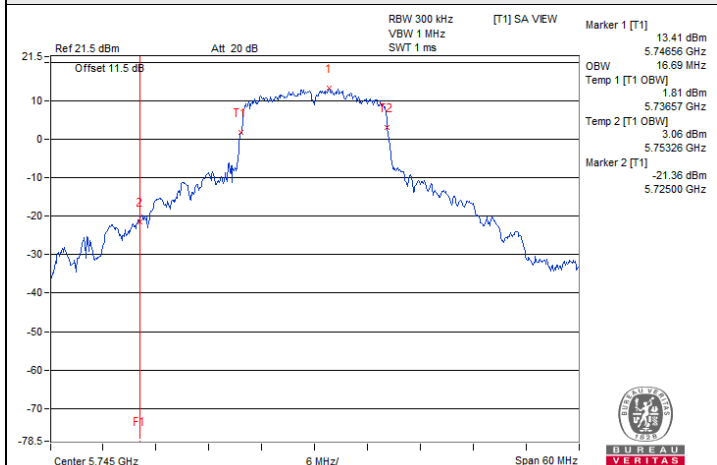
802.11be (EHT80) / Chain 1 : CH 42

Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)

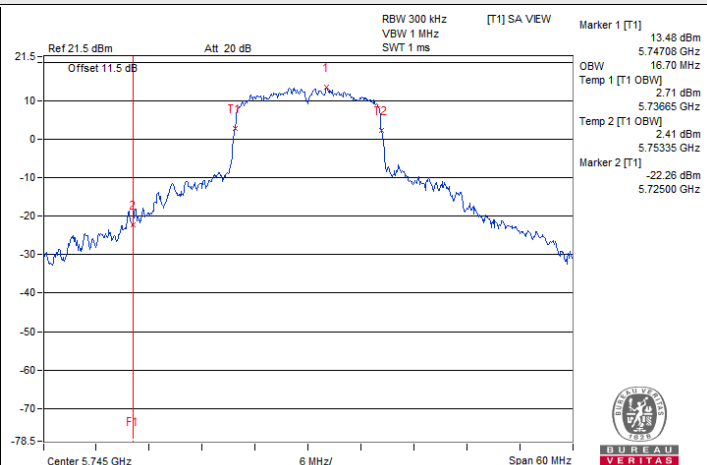
**802.11be (EHT20) 26-tone RU / Chain 0 : CH 48@8****802.11be (EHT20) 26-tone RU / Chain 1 : CH 48@8****802.11be (EHT20) 52-tone RU / Chain 0 : CH 48@40****802.11be (EHT20) 52-tone RU / Chain 1 : CH 48@40****802.11be (EHT20) 106-tone RU / Chain 0 : CH 48@54****802.11be (EHT20) 106-tone RU / Chain 1 : CH 48@54**



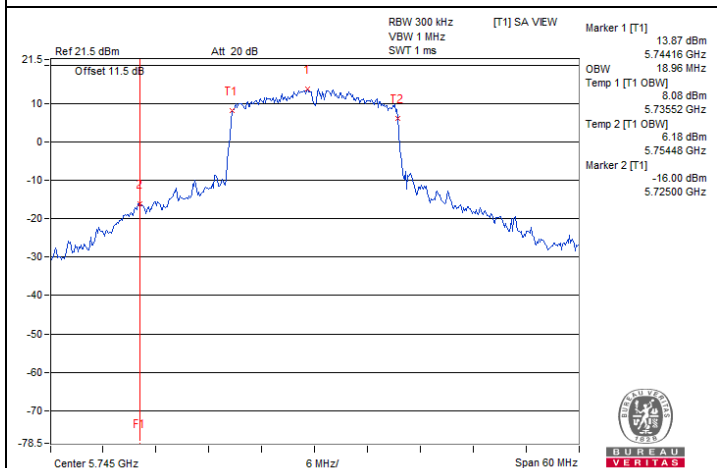
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



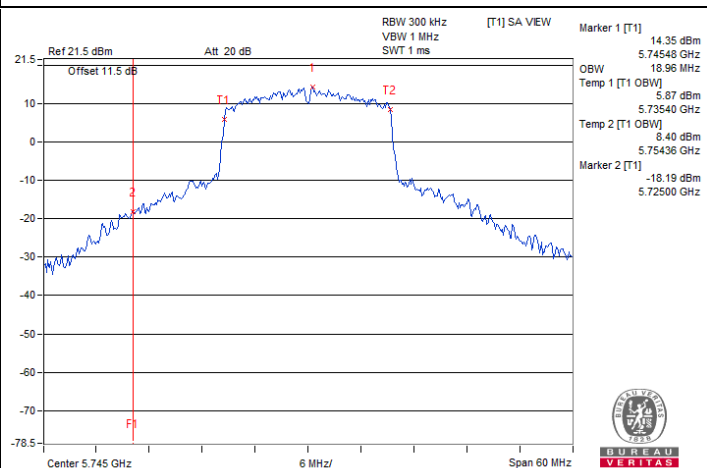
802.11a / Chain 0 : CH 149



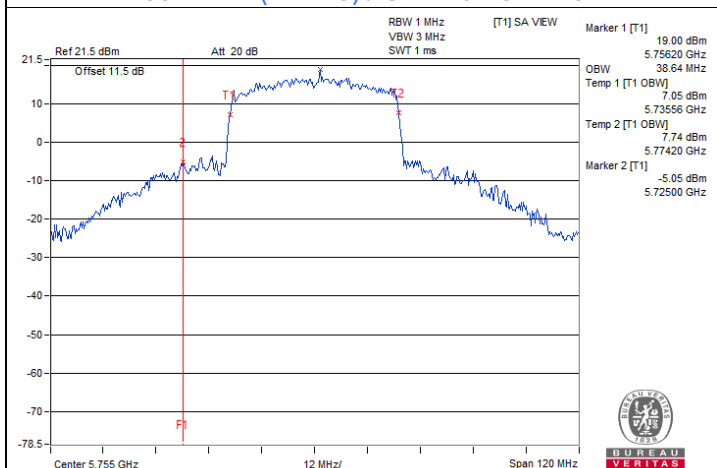
802.11a / Chain 1 : CH 149



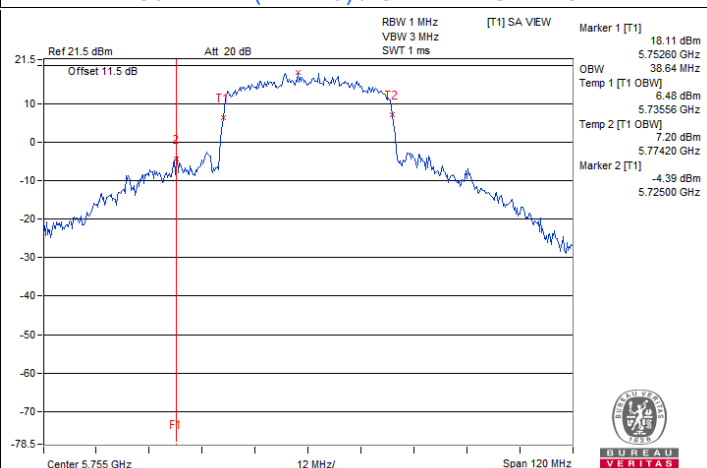
802.11be (EHT20) / Chain 0 : CH 149



802.11be (EHT20) / Chain 1 : CH 149



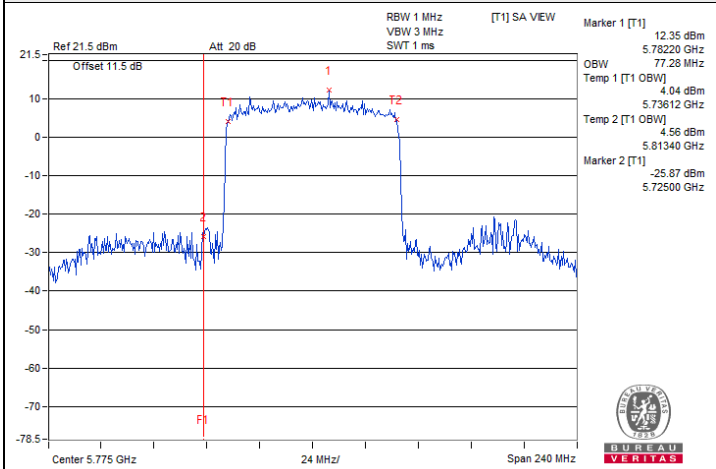
802.11be (EHT40) / Chain 0 : CH 151



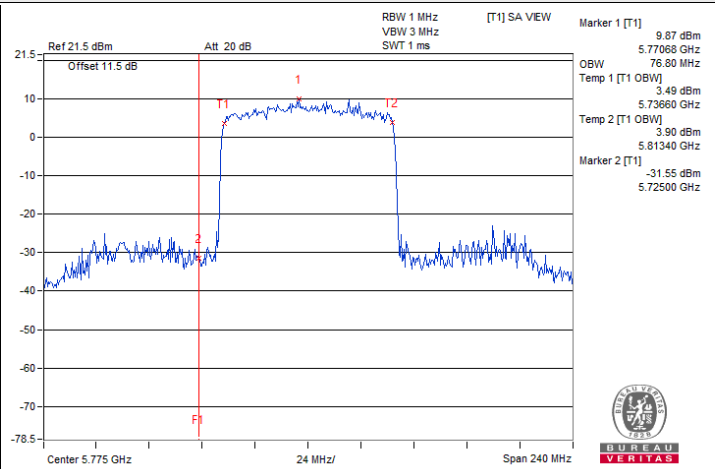
802.11be (EHT40) / Chain 1 : CH 151



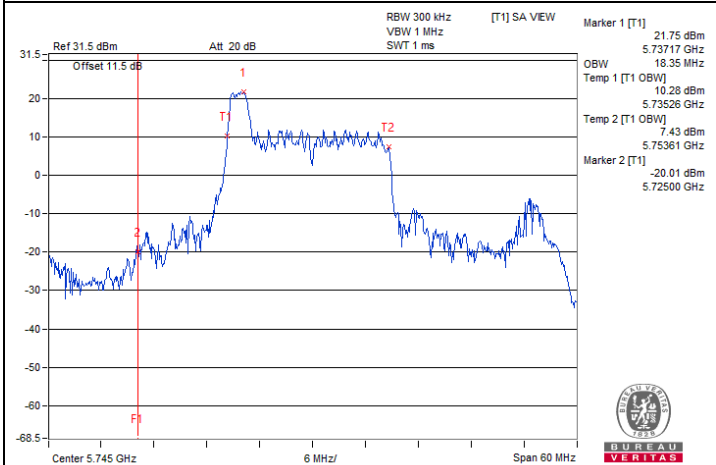
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



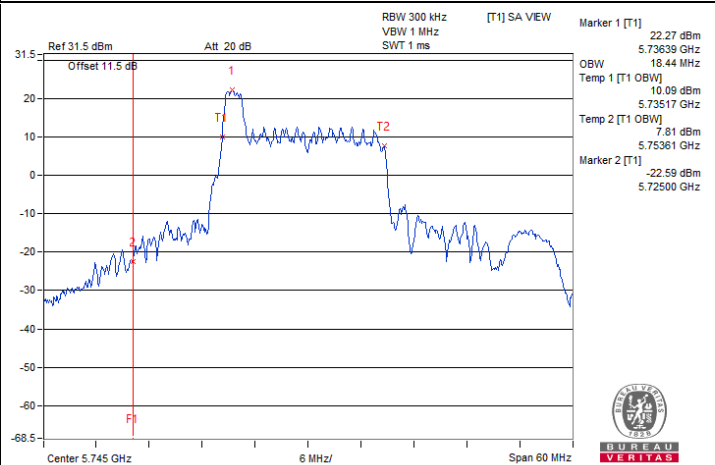
802.11be (EHT80) / Chain 0 : CH 155



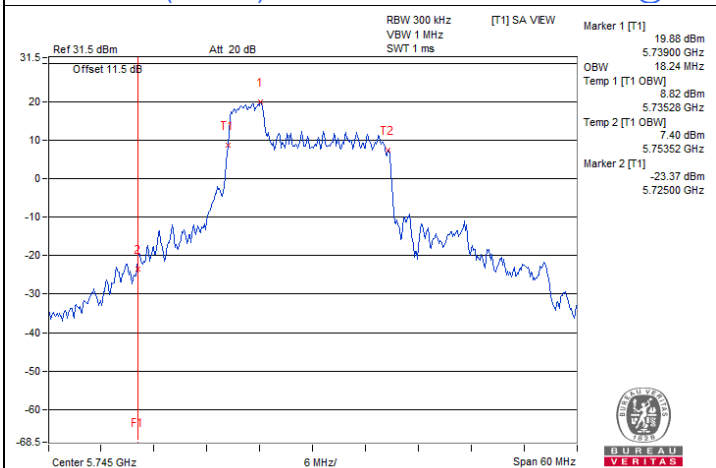
802.11be (EHT80) / Chain 1 : CH 155



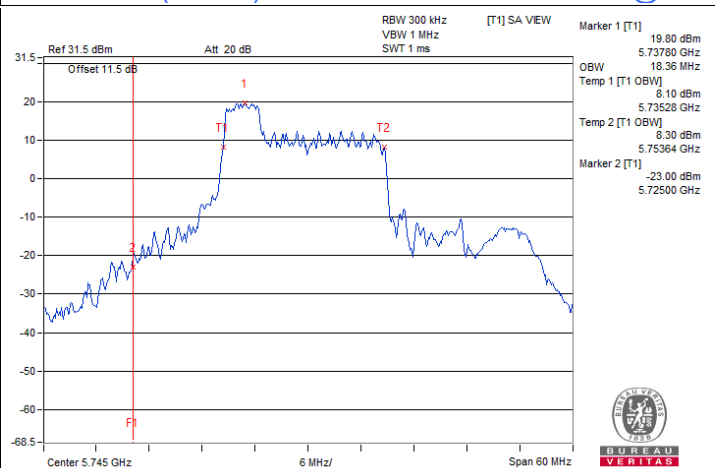
802.11be (EHT20) 26-tone RU / Chain 0 : CH 149@0



802.11be (EHT20) 26-tone RU / Chain 1 : CH 149@0



802.11be (EHT20) 52-tone RU / Chain 0 : CH 149@37

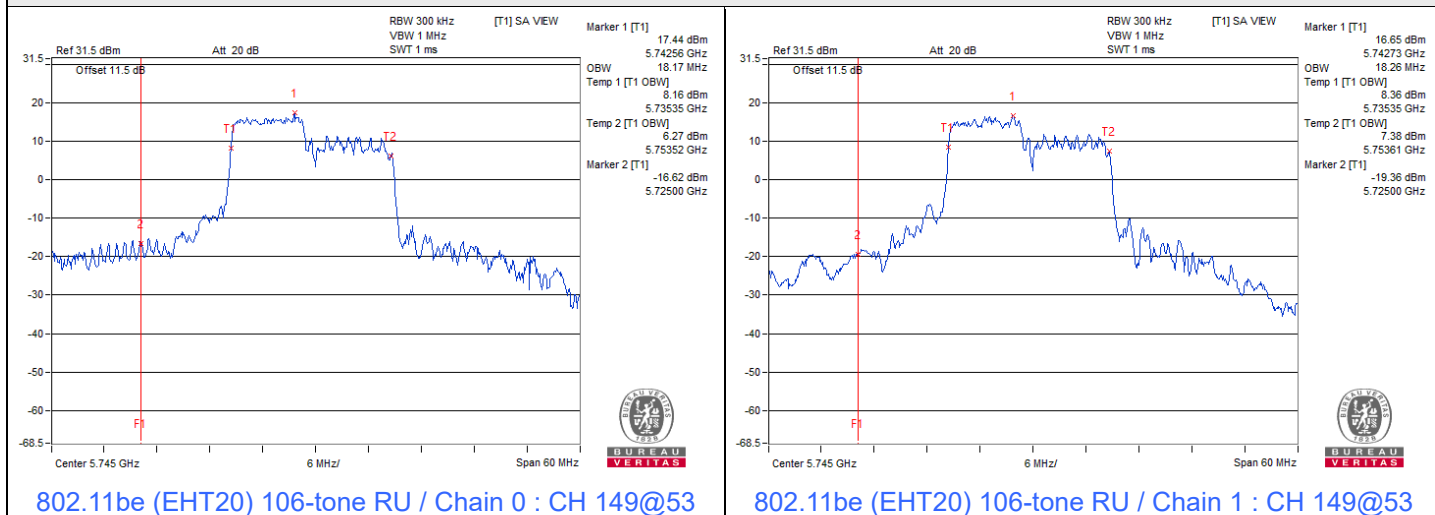


802.11be (EHT20) 52-tone RU / Chain 1 : CH 149@37



BUREAU VERITAS

Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
70	120	5179.999	Pass	5179.9979	Pass	5179.9999	Pass	5179.999	Pass
60	120	5179.9854	Pass	5179.9878	Pass	5179.9861	Pass	5179.9861	Pass
50	120	5179.9912	Pass	5179.9939	Pass	5179.9909	Pass	5179.9922	Pass
40	120	5180.0024	Pass	5180.0042	Pass	5180.0048	Pass	5180.0052	Pass
30	120	5179.9845	Pass	5179.9894	Pass	5179.9888	Pass	5179.9855	Pass
20	120	5179.9823	Pass	5179.9806	Pass	5179.9831	Pass	5179.9837	Pass
10	120	5180.0123	Pass	5180.014	Pass	5180.0154	Pass	5180.0124	Pass
0	120	5179.976	Pass	5179.977	Pass	5179.9764	Pass	5179.9794	Pass
-10	120	5179.9999	Pass	5179.9967	Pass	5179.9986	Pass	5179.9981	Pass
-20	120	5179.9901	Pass	5179.9858	Pass	5179.9858	Pass	5179.9857	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5179.98	Pass	5179.9793	Pass	5179.98	Pass	5179.9779	Pass
	120	5179.9823	Pass	5179.9806	Pass	5179.9831	Pass	5179.9837	Pass
	102	5179.9905	Pass	5179.9869	Pass	5179.9886	Pass	5179.9889	Pass

7.7 AC Power Conducted Emissions

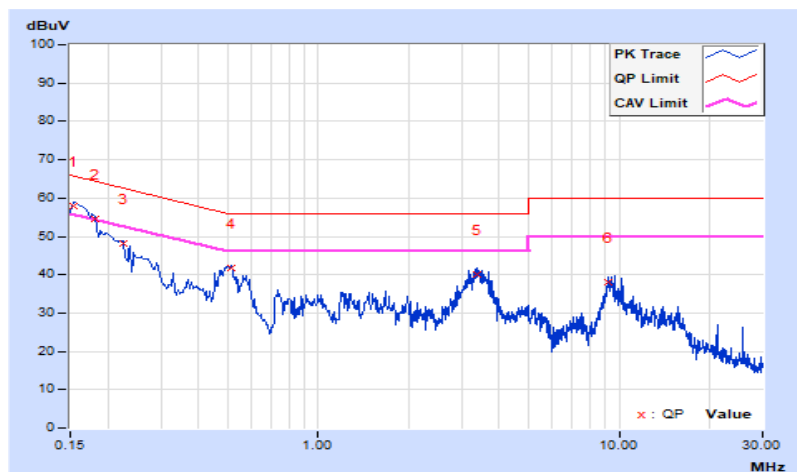
1Tx

RF Mode	802.11be (EHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Jed Wu		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.94	47.81	30.56	57.75	40.50	65.79	55.79	-8.04	-15.29
2	0.18129	9.94	44.60	26.66	54.54	36.60	64.43	54.43	-9.89	-17.83
3	0.22431	9.93	38.11	23.38	48.04	33.31	62.66	52.66	-14.62	-19.35
4	0.51564	9.90	31.78	25.42	41.68	35.32	56.00	46.00	-14.32	-10.68
5	3.35503	9.95	30.08	18.71	40.03	28.66	56.00	46.00	-15.97	-17.34
6	9.25126	10.14	27.97	22.42	38.11	32.56	60.00	50.00	-21.89	-17.44

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

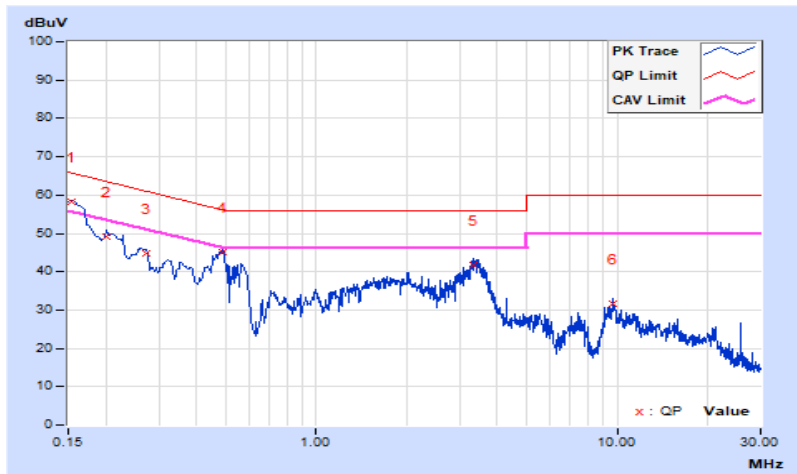


RF Mode	802.11be (EHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Jed Wu		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.93	48.41	34.22	58.34	44.15	65.79	55.79	-7.45	-11.64
2	0.20084	9.91	39.17	19.76	49.08	29.67	63.58	53.58	-14.50	-23.91
3	0.27124	9.91	34.99	21.47	44.90	31.38	61.08	51.08	-16.18	-19.70
4	0.49026	9.90	35.30	22.41	45.20	32.31	56.16	46.16	-10.96	-13.85
5	3.31592	9.97	31.66	20.52	41.63	30.49	56.00	46.00	-14.37	-15.51
6	9.64627	10.11	21.70	15.74	31.81	25.85	60.00	50.00	-28.19	-24.15

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



2Tx

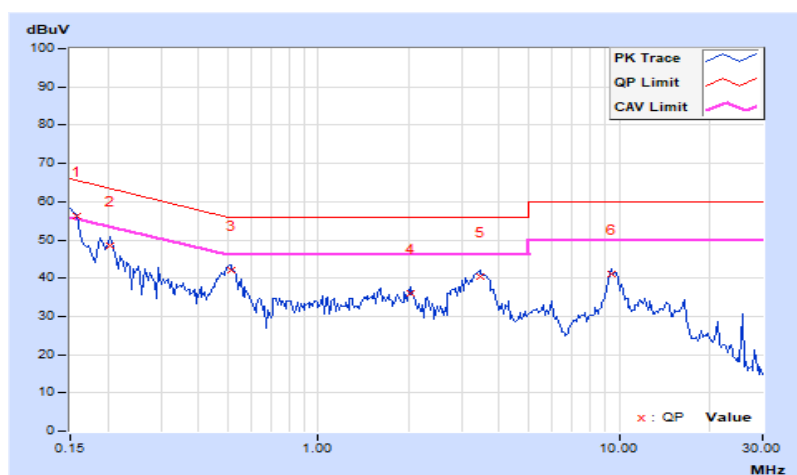
RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Jed Wu		

Phase Of Power : Line (L)

No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	9.60	46.76	24.19	56.36	33.79	65.58	55.58	-9.22	-21.79
2	0.20469	9.64	39.01	15.35	48.65	24.99	63.42	53.42	-14.77	-28.43
3	0.51328	9.65	32.41	23.59	42.06	33.24	56.00	46.00	-13.94	-12.76
4	2.02734	9.72	26.43	17.39	36.15	27.11	56.00	46.00	-19.85	-18.89
5	3.45703	9.80	30.55	20.76	40.35	30.56	56.00	46.00	-15.65	-15.44
6	9.41797	10.01	30.93	25.91	40.94	35.92	60.00	50.00	-19.06	-14.08

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

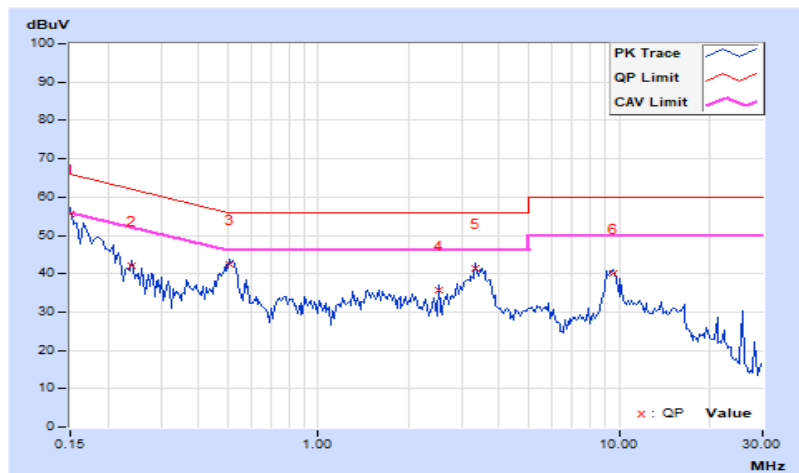


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Jed Wu		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.64	46.02	28.31	55.66	37.95	66.00	56.00	-10.34	-18.05
2	0.23984	9.66	32.44	16.69	42.10	26.35	62.10	52.10	-20.00	-25.75
3	0.50938	9.57	32.96	23.37	42.53	32.94	56.00	46.00	-13.47	-13.06
4	2.51563	9.79	25.84	16.83	35.63	26.62	56.00	46.00	-20.37	-19.38
5	3.31250	9.83	31.55	20.76	41.38	30.59	56.00	46.00	-14.62	-15.41
6	9.51953	10.03	30.09	24.73	40.12	34.76	60.00	50.00	-19.88	-15.24

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



7.8 Unwanted Emissions below 1 GHz

1Tx

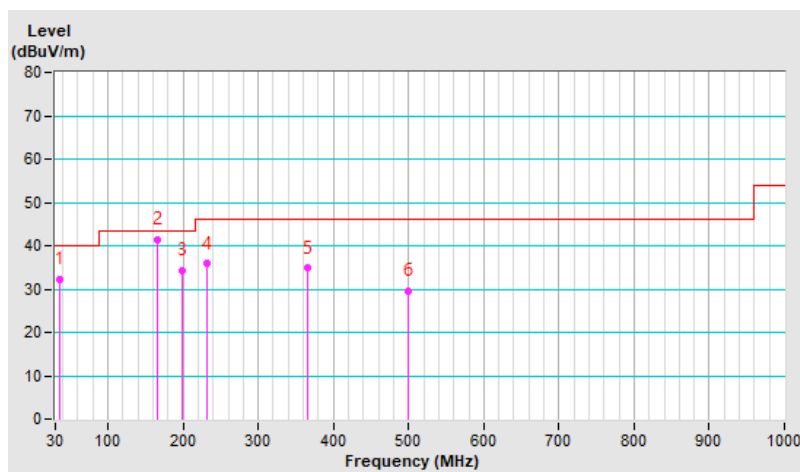
RF Mode	802.11be (EHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 72% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	35.97	32.3 QP	40.0	-7.7	1.59 H	224	42.2	-9.9
2	165.99	41.5 QP	43.5	-2.0	1.73 H	279	49.9	-8.4
3	199.22	34.2 QP	43.5	-9.3	1.84 H	147	45.1	-10.9
4	232.39	35.8 QP	46.0	-10.2	1.93 H	296	45.8	-10.0
5	365.86	34.8 QP	46.0	-11.2	1.24 H	243	39.7	-4.9
6	498.90	29.6 QP	46.0	-16.4	1.11 H	217	31.5	-1.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

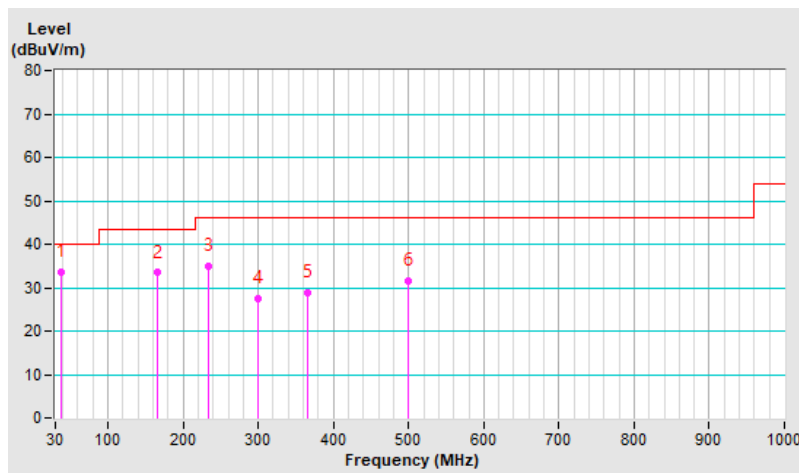


RF Mode	802.11be (EHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 72% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36.84	33.6 QP	40.0	-6.4	1.89 V	39	43.5	-9.9
2	165.99	33.4 QP	43.5	-10.1	1.24 V	217	41.8	-8.4
3	232.78	35.0 QP	46.0	-11.0	1.67 V	349	45.0	-10.0
4	299.32	27.6 QP	46.0	-18.4	1.32 V	178	33.8	-6.2
5	365.09	28.9 QP	46.0	-17.1	1.05 V	283	33.8	-4.9
6	498.85	31.5 QP	46.0	-14.5	1.18 V	224	33.4	-1.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



2Tx

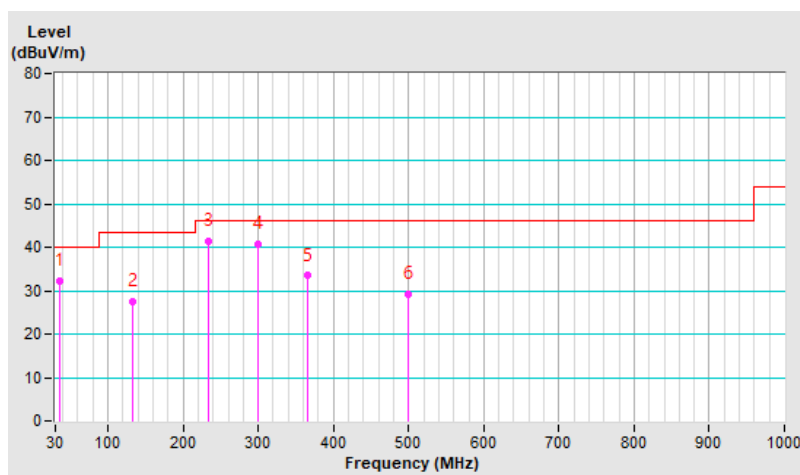
RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 72% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	35.97	32.2 QP	40.0	-7.8	1.28 H	222	42.1	-9.9
2	133.01	27.4 QP	43.5	-16.1	1.36 H	175	36.9	-9.5
3	232.78	41.5 QP	46.0	-4.5	1.89 H	317	51.5	-10.0
4	298.84	40.8 QP	46.0	-5.2	1.64 H	276	47.0	-6.2
5	365.86	33.4 QP	46.0	-12.6	1.51 H	26	38.3	-4.9
6	498.95	29.2 QP	46.0	-16.8	1.92 H	360	31.1	-1.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

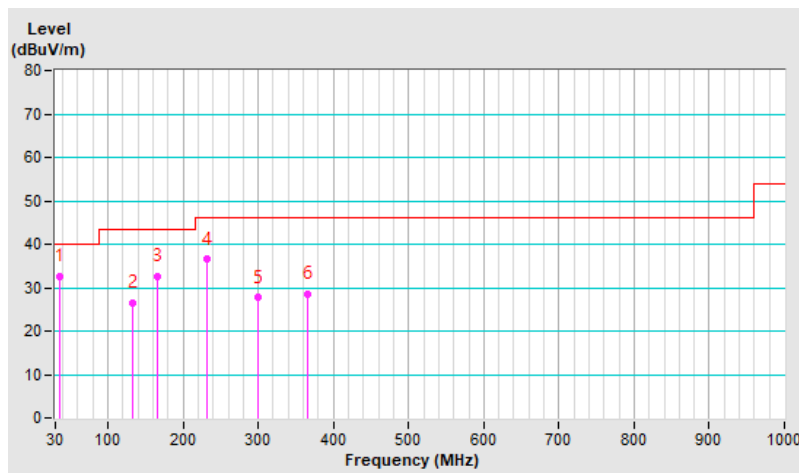


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 72% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	35.58	32.7 QP	40.0	-7.3	1.98 V	105	42.7	-10.0
2	133.01	26.5 QP	43.5	-17.0	1.34 V	200	36.0	-9.5
3	166.28	32.5 QP	43.5	-11.0	1.85 V	197	40.9	-8.4
4	232.39	36.5 QP	46.0	-9.5	1.72 V	360	46.5	-10.0
5	299.03	27.7 QP	46.0	-18.3	1.63 V	290	33.9	-6.2
6	365.81	28.6 QP	46.0	-17.4	1.24 V	292	33.5	-4.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.9 Unwanted Emissions above 1 GHz

1Tx

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	71.4 PK	74.0	-2.6	1.61 H	105	58.1	13.3
2	5150.00	50.0 AV	54.0	-4.0	1.61 H	105	36.7	13.3
3	*5180.00	116.5 PK			1.61 H	105	103.1	13.4
4	*5180.00	105.9 AV			1.61 H	105	92.5	13.4
5	#10360.00	60.9 PK	68.2	-7.3	1.29 H	64	36.9	24.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.6 PK	74.0	-5.4	1.41 V	335	55.3	13.3
2	5150.00	47.1 AV	54.0	-6.9	1.41 V	335	33.8	13.3
3	*5180.00	111.6 PK			1.41 V	335	98.2	13.4
4	*5180.00	100.9 AV			1.41 V	335	87.5	13.4
5	#10360.00	60.3 PK	68.2	-7.9	1.02 V	299	36.3	24.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	116.4 PK			1.57 H	108	102.8	13.6
2	*5200.00	105.8 AV			1.57 H	108	92.2	13.6
3	#10400.00	60.7 PK	68.2	-7.5	1.25 H	67	36.6	24.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	111.5 PK			1.38 V	332	97.9	13.6
2	*5200.00	100.8 AV			1.38 V	332	87.2	13.6
3	#10400.00	60.1 PK	68.2	-8.1	1.05 V	302	36.0	24.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.



RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	117.3 PK			1.59 H	104	103.5	13.8
2	*5240.00	106.1 AV			1.59 H	104	92.3	13.8
3	5350.00	58.6 PK	74.0	-15.4	1.59 H	104	44.3	14.3
4	5350.00	44.9 AV	54.0	-9.1	1.59 H	104	30.6	14.3
5	#10480.00	61.5 PK	68.2	-6.7	1.27 H	63	37.3	24.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	112.6 PK			1.38 V	336	98.8	13.8
2	*5240.00	101.7 AV			1.38 V	336	87.9	13.8
3	5350.00	58.4 PK	74.0	-15.6	1.38 V	336	44.1	14.3
4	5350.00	44.7 AV	54.0	-9.3	1.38 V	336	30.4	14.3
5	#10480.00	60.9 PK	68.2	-7.3	1.05 V	300	36.7	24.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.



RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.7 PK	74.0	-15.3	1.57 H	80	45.4	13.3
2	5150.00	44.2 AV	54.0	-9.8	1.57 H	80	30.9	13.3
3	*5260.00	117.3 PK			1.57 H	80	103.2	14.1
4	*5260.00	107.0 AV			1.57 H	80	92.9	14.1
5	#10520.00	61.4 PK	68.2	-6.8	1.25 H	39	37.1	24.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	1.37 V	310	44.8	13.3
2	5150.00	44.0 AV	54.0	-10.0	1.37 V	310	30.7	13.3
3	*5260.00	112.6 PK			1.37 V	310	98.5	14.1
4	*5260.00	102.5 AV			1.37 V	310	88.4	14.1
5	#10520.00	60.8 PK	68.2	-7.4	1.06 V	274	36.5	24.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.