

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: EN 301 893 V2.1.1 (2017-05)

Report No.: REBARR-WTW-P23110067A-1

Product: 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card

Brand: MediaTek

Model No.: MT7925B14L

Received Date: 2023/12/6

Test Date: 2023/12/17 ~ 2024/4/12

Issued Date: 2024/4/26

Applicant: MediaTek Inc.

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Release Control Record

Issue No.	Description	Date Issued
REBARR-WTW-P23110067A-1	Original release.	2024/4/26

1 Certificate

Product: 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7925B14L

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: 2023/12/17 ~ 2024/4/12

Standard: EN 301 893 V2.1.1 (2017-05)

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

EN 301 893 V2.1.1		
Clause	Test Item	Result
4.2.1	Carrier Frequencies	Pass
4.2.2	Nominal Channel Bandwidth and Occupied Channel Bandwidth	Pass
4.2.3	RF Output Power	Pass
4.2.3	Transmit Power Control (TPC)	Pass
4.2.3	Power Density	Pass
4.2.4.1	Transmitter Unwanted Emissions outside the 5 GHz RLAN bands up to 1 GHz	Pass
4.2.4.1	Transmitter Unwanted Emissions outside the 5 GHz RLAN bands above 1 GHz	Pass
4.2.4.2	Transmitter Unwanted Emissions within the 5 GHz RLAN bands	Pass
4.2.5	Receiver Spurious Emissions up to 1 GHz	Pass
4.2.5	Receiver Spurious Emissions above 1 GHz	Pass
4.2.6.2	Dynamic Frequency Selection	Refer to Note 1
4.2.7	Adaptivity	Refer to Note 2
4.2.8	Receiver Blocking	Refer to Note 2
4.2.9	User Access Restrictions	Pass
4.2.10	Geo-location capability	Not Applicable

Notes:

1. The "Dynamic Frequency Selection measurement" was recorded in DFS test report.
2. Adaptivity and receiver blocking testing data please refer to BV CPS report no.: REBARR-WTW-P23110067-1.
3. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETSI TR 100 028-1 and ETSI TR 100 028-2:

Parameter	Uncertainty (±)	Maximum allowable uncertainty (±)
RF frequency	0.0769 ppm	10 ppm
RF power conducted	1.371 dB	1.5 dB
RF power radiated	2.855 dB	6 dB
Spurious emissions, conducted	1.34 dB	3 dB
Spurious emissions, radiated	2.855 dB	6 dB
Humidity	0.14 %	5 %
Temperature	0.59 °C	2 °C
Time	2.53 %	10 %

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7925B14L
Status of EUT	Engineering sample
Power Supply Rating	3.3Vdc from host equipment
Temperature Operating Range	-10 °C ~ 70 °C
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 300 Mbps Up to 1733.4 Mbps in 11ac mode Up to 2401.9 Mbps in 11ax mode Up to 2882.4 Mbps in 11be mode
Operating Frequency	5.18 GHz ~ 5.32 GHz 5.50 GHz ~ 5.70 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20): 19 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40): 9 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80): 4 802.11ac (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, 2x996-tone Multi-RU (Small RU): 52-tone + 26-tone, 106-tone + 26-tone Multi-RU (Large RU): 484-tone + 242-tone, 996-tone + 484-tone, 996-tone + 484-tone + 242-tone
Output Power (e.i.r.p.)	1TX: 5.18 GHz ~ 5.25 GHz: 14.29 dBm 5.26 GHz ~ 5.32 GHz: 14.32 dBm 5.50 GHz ~ 5.70 GHz: 13.83 dBm 2TX: 5.18 GHz ~ 5.25 GHz: 17.10 dBm 5.26 GHz ~ 5.32 GHz: 17.13 dBm 5.50 GHz ~ 5.70 GHz: 16.69 dBm
EUT Category	Slave without radar detection, with TPC function

Note:

1. This report is issued as a supplementary report to the original BV CPS report no.: REBARR-WTW-P23110067-1. The difference is increasing conducted power for dynamic mode. Therefore, all tests test had been re-tested except adaptivity and receiver blocking test. Other testing data refer to original report.

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

3. The Multi-RU mode is listed as below.

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

4. Simultaneously transmission condition.

Condition	Technology	
1	WLAN 5GHz (2TX)	Bluetooth
2	WLAN 6GHz (2TX)	Bluetooth
3	WLAN 2.4GHz (1TX)	WLAN 5GHz (1TX)
4	WLAN 2.4GHz (1TX)	WLAN 6GHz (1TX)
5	WLAN 5GHz (1TX)	WLAN 6GHz (1TX)

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

5. The EUT support OFDMA and RU mode, therefore partial RU combination were investigated and the worst case scenario was identified. (The worst case data were presented in section 3.4)

6. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
1	Chain 0	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.895	PIFA	i-pex(MHF)
	Chain 1	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.895	PIFA	i-pex(MHF)
2	Chain 0	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)
	Chain 1	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)
3	Chain 0	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)
	Chain 1	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)
4 Dynamic Gain	Chain 0	Declared antenna	-	-10.00 -9.92 -10.02 -16.52	2.4~2.4835 5.15~5.725 5.725~5.85 5.925~7.125	PIFA	i-pex(MHF)
	Chain 1	Declared antenna	-	-10.00 -9.92 -10.02 -16.52	2.4~2.4835 5.15~5.725 5.725~5.85 5.925~7.125	PIFA	i-pex(MHF)

*The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

*From the above transmission chains, the worst case was found in transmission on Chain 1 for 1TX diversity sample. Therefore only the test data of the mode was recorded in this report.

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	1TX(diversity)/2TX	2RX
802.11n (HT20)	1TX(diversity)/2TX	2RX
802.11n (HT40)	1TX(diversity)/2TX	2RX
802.11ac (VHT20)	1TX(diversity)/2TX	2RX
802.11ac (VHT40)	1TX(diversity)/2TX	2RX
802.11ac (VHT80)	1TX(diversity)/2TX	2RX
802.11ac (VHT160)	1TX(diversity)/2TX	2RX
802.11ax (HE20)	1TX(diversity)/2TX	2RX
802.11ax (HE40)	1TX(diversity)/2TX	2RX
802.11ax (HE80)	1TX(diversity)/2TX	2RX
802.11ax (HE160)	1TX(diversity)/2TX	2RX
802.11be (EHT20)	1TX(diversity)/2TX	2RX
802.11be (EHT40)	1TX(diversity)/2TX	2RX
802.11be (EHT80)	1TX(diversity)/2TX	2RX
802.11be (EHT160)	1TX(diversity)/2TX	2RX
802.11ax (RU26/52/106/242/484/996/2x996)	1TX(diversity)/2TX	2RX
802.11be (RU26/52/106/242/484/996/2x996) (MRU52+26/106+26/484+242/996+484/996+484+242)	1TX(diversity)/2TX	2RX

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160MHz), 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160MHz) and 802.11be mode for 20 MHz (40 MHz, 80 MHz, 160MHz), therefore the manufacturer will control the power for 802.11n/ac/ax mode is the same as the 802.11be 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) and 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) and 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) and 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) and 802.11be (EHT160):

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5700 MHz

11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20) and 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		

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

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

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

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz

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

Channel	Frequency
114	5570 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. X-axis/ Y-axis/ Z-axis Worst Condition: Y-axis

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

Test Item	EUT Configure Mode	Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
Carrier Frequencies	A1, A2	802.11a	36, 100	unmodulated	-	
Nominal Channel Bandwidth and Occupied Channel Bandwidth	A1, A2	802.11a	36, 100	BPSK	6Mb/s	NA
		802.11be (EHT20)	36, 100	BPSK	MCS0	NA
		802.11be (EHT40)	38, 102	BPSK	MCS0	NA
		802.11be (EHT80)	42, 106	BPSK	MCS0	NA
		802.11be (EHT160)	50, 114	BPSK	MCS0	NA
RF Output Power	B1, B2	802.11a	36, 64, 100, 140	BPSK	6Mb/s	NA
		802.11ax (HE20)	36, 64, 100, 140	BPSK	MCS0	NA
		802.11ax (HE40)	38, 62, 102, 134	BPSK	MCS0	NA
		802.11ax (HE80)	42, 58, 106, 122	BPSK	MCS0	NA
		802.11ax (HE160)	50, 114	BPSK	MCS0	NA
		802.11be (EHT20)	36, 64, 100, 140	BPSK	MCS0	NA
		802.11be (EHT40)	38, 62, 102, 134	BPSK	MCS0	NA
		802.11be (EHT80)	42, 58, 106, 122	BPSK	MCS0	NA
		802.11be (EHT160)	50, 114	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	36, 64, 100, 140	BPSK	MCS0	0, 8, 0, 8
		802.11be (EHT20) 52-tone RU	36, 64, 100, 140	BPSK	MCS0	37, 40, 37, 40
		802.11be (EHT20) 106-tone RU	36, 64, 100, 140	BPSK	MCS0	53, 54, 53, 54
		802.11be (EHT20) 52+26-tone MRU	36, 64, 100, 140	BPSK	MCS0	70, 72, 70, 72
		802.11be (EHT20) 106+26-tone MRU	36, 64, 100, 140	BPSK	MCS0	82, 83, 82, 83
		802.11be (EHT80) 484+242-tone MRU	42, 58, 106, 122	BPSK	MCS0	93, 90, 93, 90
		802.11be (EHT160) 996+484-tone MRU	50, 114	BPSK	MCS0	95-1, 94-0
		802.11be (EHT160) 996+484+242-tone MRU	50, 114	BPSK	MCS0	99-1, 96-0

Test Item	EUT Configure Mode	Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
Power Density	B1, B2	802.11a	36, 64, 100, 140	BPSK	6Mb/s	NA
		802.11be (EHT20)	36, 64, 100, 140	BPSK	MCS0	NA
		802.11be (EHT40)	38, 62, 102, 134	BPSK	MCS0	NA
		802.11be (EHT80)	42, 58, 106, 122	BPSK	MCS0	NA
		802.11be (EHT160)	50, 114	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	36, 64, 100, 140	BPSK	MCS0	0, 8, 0, 8
		802.11be (EHT20) 52-tone RU	36, 64, 100, 140	BPSK	MCS0	37, 40, 37, 40
		802.11be (EHT20) 106-tone RU	36, 64, 100, 140	BPSK	MCS0	53, 54, 53, 54
		802.11be (EHT20) 52+26-tone MRU	36, 64, 100, 140	BPSK	MCS0	70, 72, 70, 72
		802.11be (EHT20) 106+26-tone MRU	36, 64, 100, 140	BPSK	MCS0	82, 83, 82, 83
		802.11be (EHT80) 484+242-tone MRU	42, 58, 106, 122	BPSK	MCS0	93, 90, 93, 90
		802.11be (EHT160) 996+484-tone MRU	50, 114	BPSK	MCS0	95-1, 94-0
		802.11be (EHT160) 996+484+242-tone MRU	50, 114	BPSK	MCS0	99-1, 96-0

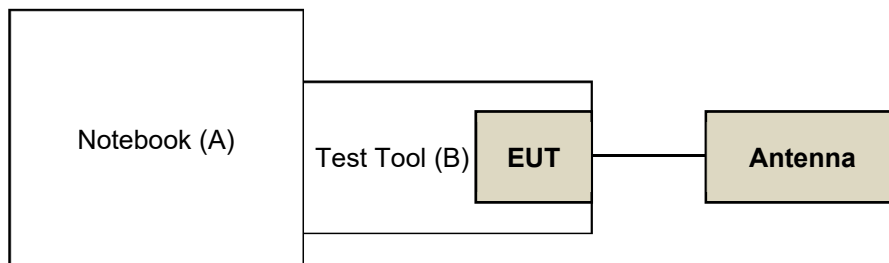
Test Item	EUT Configure Mode	Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
Transmit Power Control (TPC)	B1, B2	802.11a	64, 100, 140	BPSK	6Mb/s	NA
		802.11ax (HE20)	64, 100, 140	BPSK	MCS0	NA
		802.11ax (HE40)	62, 102, 134	BPSK	MCS0	NA
		802.11ax (HE80)	58, 106, 122	BPSK	MCS0	NA
		802.11ax (HE160)	50, 114	BPSK	MCS0	NA
		802.11be (EHT20)	64, 100, 140	BPSK	MCS0	NA
		802.11be (EHT40)	62, 102, 134	BPSK	MCS0	NA
		802.11be (EHT80)	58, 106, 122	BPSK	MCS0	NA
		802.11be (EHT160)	50, 114	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	64, 100, 140	BPSK	MCS0	0, 8, 0, 8
		802.11be (EHT20) 52-tone RU	64, 100, 140	BPSK	MCS0	37, 40, 37, 40
		802.11be (EHT20) 106-tone RU	64, 100, 140	BPSK	MCS0	53, 54, 53, 54
		802.11be (EHT20) 52+26-tone MRU	64, 100, 140	BPSK	MCS0	70, 72, 70, 72
		802.11be (EHT20) 106+26-tone MRU	64, 100, 140	BPSK	MCS0	82, 83, 82, 83
		802.11be (EHT80) 484+242-tone MRU	58, 106, 122	BPSK	MCS0	93, 90, 93, 90
		802.11be (EHT160) 996+484-tone MRU	50, 114	BPSK	MCS0	95-1, 94-0
		802.11be (EHT160) 996+484+242-tone MRU	50, 114	BPSK	MCS0	99-1, 96-0
Transmitter Unwanted Emissions outside the 5 GHz RLAN bands up to 1 GHz	A1, A2	802.11a	64	BPSK	6Mb/s	NA
Transmitter Unwanted Emissions outside the 5 GHz RLAN bands above 1 GHz	A1, A2	802.11a	64	BPSK	6Mb/s	NA
		802.11ax (HE20)	140	BPSK	MCS0	NA
Transmitter Unwanted Emissions within the 5 GHz RLAN bands	A1, A2	802.11a	36, 64, 100, 140	BPSK	6Mb/s	NA
		802.11be (EHT20)	36, 64, 100, 140	BPSK	MCS0	NA
		802.11be (EHT40)	38, 62, 102, 134	BPSK	MCS0	NA
		802.11be (EHT80)	42, 58, 106, 122	BPSK	MCS0	NA
		802.11be (EHT160)	50, 114	BPSK	MCS0	NA

Test Item	EUT Configure Mode	Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
Receiver Spurious Emissions up to 1 GHz	A2	Receiver	64	-	-	NA
Receiver Spurious Emissions above 1 GHz	A2	Receiver	64, 140	-	-	NA
EUT Configure Mode:	A1	Dynamic mode 1TX (EUT Maximum Conducted Power + Ant. 1)				
	A2	Dynamic mode 2TX (EUT Maximum Conducted Power + Ant. 1)				
	B1	Dynamic mode 1TX (EUT Maximum Conducted Power + Ant. 4)				
	B2	Dynamic mode 2TX (EUT Maximum Conducted Power + Ant. 4)				

3.5 Test Program Used and Operation Descriptions

Controlling software QA Tool 0.0.2.100 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.6 Connection Diagram of EUT and Peripheral Devices



3.7 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Notebook	DELL	E5410	1HC2XM1	N/A	Provided by Lab
B	Test Tool	Mediatek	MTK1849	NA	NA	Supplied by applicant

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 Carrier Frequencies

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	HRM-120RF	931022	2022/12/27 2023/12/19	2023/12/26 2024/12/18

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/12/17 ~ 2024/4/12

4.2 Nominal Channel Bandwidth and Occupied Channel Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/12/17 ~ 2024/4/12

4.3 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer Keysight	8990B	MY51000485	2023/1/19 2024/1/21	2024/1/18 2025/1/20
Signal & Spectrum Analyzer R&S	FSV3044	101105	2023/2/22 2024/2/27	2024/2/21 2025/2/26
Temperature & Humidity Chamber Terchy	HRM-120RF	931022	2022/12/27 2023/12/19	2023/12/26 2024/12/18
USB Wideband Power Sensor Keysight	U2021XA	MY55050005/MY55190004/MY55190007/MY55210005	2023/7/19	2024/7/18
Wideband Power Sensor Keysight	N1923A	MY58020002	2023/1/18 2024/1/18	2024/1/17 2025/1/17
		MY58140009	2023/1/18 2024/1/18	2024/1/17 2025/1/17

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/12/17 ~ 2024/4/12

4.4 Transmit Power Control (TPC)

Refer to section 4.3 to get information of the instruments.

4.5 Power Density

Refer to section 4.2 to get information of the instruments.

4.6 Transmitter Unwanted Emissions outside the 5 GHz RLAN bands up to 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna and Turntable controller Max-Full	MF7802	MF780208363	N/A	N/A
Antenna tower Max-Full	MFA-440H	A440H102-019	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-161	2023/10/17	2024/10/16
Preamplifier Agilent	8447D	2944A10634	2023/7/8	2024/7/7
PXA Signal Analyzer Agilent	N9030A	MY53120770	2024/3/13	2025/3/12
RF Coaxial Cable Woken	8D-FB	Cable-RF2-01	2023/7/8	2024/7/7
Signal Analyzer R&S	FSV40	100980	2023/5/3	2024/5/2
Software ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table ADT	N/A	SN30303	N/A	N/A

Notes:

1. The test was performed in HY - RF chamber 2
2. Tested Date: 2024/4/9

4.7 Transmitter Unwanted Emissions outside the 5 GHz RLAN bands above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna and Turntable controller Max-Full	MF7802	MF780208363	N/A	N/A
Antenna tower Max-Full	MFA-440H	A440H102-019	N/A	N/A
Horn Antenna ETS-Lindgren	3117	00034130	2023/11/12	2024/11/11
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170243	2023/11/12	2024/11/11
Preamplifier Agilent	8449B	3008A01976	2023/7/8	2024/7/7
Preamplifier EMCI	EMC184045B	980175	2023/9/2	2024/9/1
PXA Signal Analyzer Agilent	N9030A	MY53120770	2024/3/13	2025/3/12
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	Cable-RF2-03(246272/4)	2023/7/8	2024/7/7
RF Coaxial Cable INFINET	CA3501-3501- G.90(3m)&CA3501- 3501-F.90(2m)	INF090(3m)*2&TCF427S(2m)*1	2023/7/8	2024/7/7
Signal Analyzer R&S	FSV40	100980	2023/5/3	2024/5/2
Software ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table ADT	N/A	SN30303	N/A	N/A

Notes:

1. The test was performed in HY - RF chamber 2
2. Tested Date: 2024/4/9

4.8 Transmitter Unwanted Emissions within the 5 GHz RLAN bands

Refer to section 4.2 to get information of the instruments.

4.9 Receiver Spurious Emissions up to 1 GHz

Refer to section 4.6 to get information of the instruments.

4.10 Receiver Spurious Emissions above 1 GHz

Refer to section 4.7 to get information of the instruments.

5 Limits of Test Items

5.1 Carrier Frequencies

The actual centre frequency for any given channel shall be maintained within the range $f_c \pm 20$ ppm.

5.2 Nominal Channel Bandwidth and Occupied Channel Bandwidth

The Nominal Channel Bandwidth for a single Operating Channel shall be 20 MHz.

Alternatively, equipment may implement a lower Nominal Channel Bandwidth with a minimum of 5 MHz, providing they still comply with the Nominal Centre Frequencies defined in clause 4.2.1.

The Occupied Channel Bandwidth shall be between 80% and 100% of the Nominal Channel Bandwidth. In case of smart antenna systems (devices with multiple transmit chains) each of the transmit chains shall meet this requirement. The Occupied Channel Bandwidth might change with time/payload.

During a Channel Occupancy Time (COT), equipment may operate temporarily with an Occupied Channel Bandwidth of less than 80% of its Nominal Channel Bandwidth with a minimum of 2 MHz.

5.3 RF Output Power

Highest Power Level

Frequency Range (MHz)	Mean e.i.r.p. Limit (dBm)
	With TPC
5150 to 5350	23
5470 to 5725	30 (see note)
Note : Slave devices without a Radar Interference Detection function shall comply with the limits for the band 5250 MHz to 5350 MHz.	

5.4 Transmit Power Control (TPC)

Lowest Power Level

Frequency Range (MHz)	Average EIRP (dBm)
5250 to 5350	17
5470 to 5725	24 (see note)
Note : Slave devices without a Radar Interference Detection function shall comply with the limits for the band 5250 MHz to 5350 MHz.	

5.5 Power Density

Frequency Band (MHz)	Mean e.i.r.p. Density Limit (dBm/MHz)
	With TPC
5150 to 5350	10
5470 to 5725	17 (see note)
Note : Slave devices without a Radar Interference Detection function shall comply with the limits for the band 5250 MHz to 5350 MHz.	

5.6 Transmitter Unwanted Emissions outside the 5 GHz RLAN bands up to 1 GHz

Frequency Range	Maximum Power Limit	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87.5 MHz	-36 dBm	100 kHz
87.5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 862 MHz	-54 dBm	100 kHz
862 MHz to 1 GHz	-36 dBm	100 kHz

Note: These limits are e.r.p. for emissions up to 1 GHz.

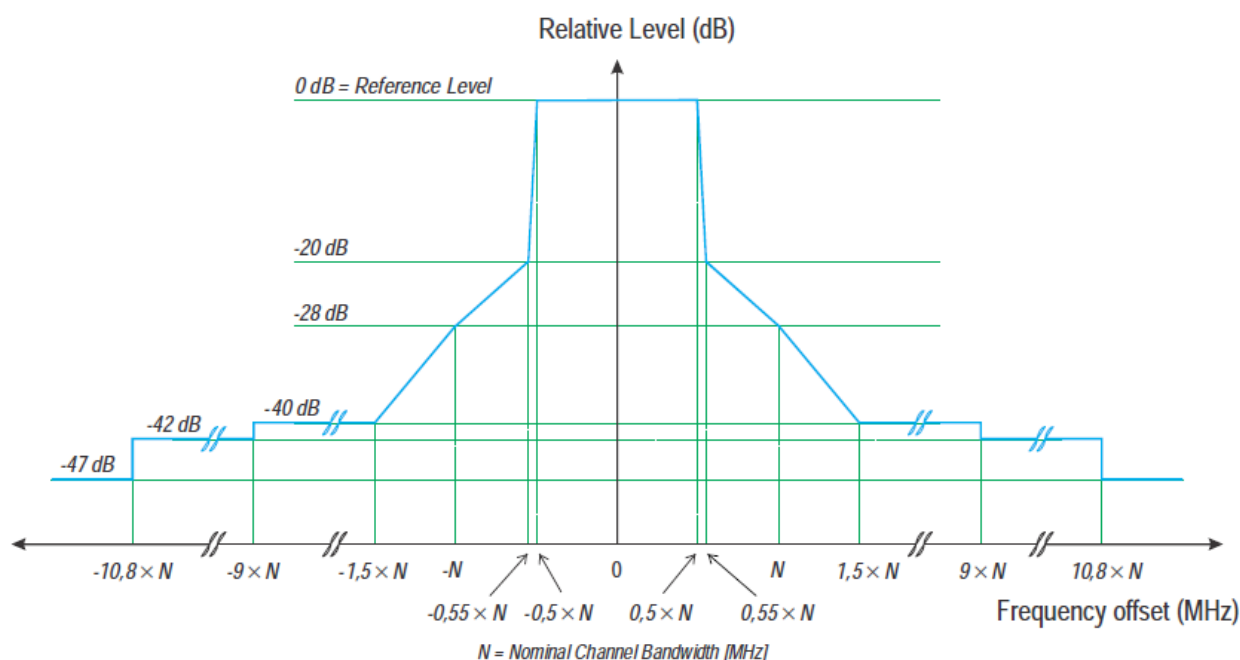
5.7 Transmitter Unwanted Emissions outside the 5 GHz RLAN bands above 1 GHz

Frequency Range	Maximum Power Limit	Bandwidth
1 GHz to 5.15 GHz	-30 dBm	1 MHz
5.35 GHz to 5.47 GHz	-30 dBm	1 MHz
5.725GHz to 26 GHz	-30 dBm	1 MHz

Note: These limits are e.i.r.p. for emissions above 1 GHz.

5.8 Transmitter Unwanted Emissions within the 5 GHz RLAN bands

The average level of the transmitted spectrum shall not exceed the limits given in the following figure:



The mean Power Density (measured with a 1 MHz measurement bandwidth) of transmitter unwanted emissions within the 5 GHz RLAN bands shall not exceed the limit of the mask provided above figure or an absolute level of -30 dBm /MHz, whichever is greater.

5.9 Receiver Spurious Emissions up to 1 GHz

Frequency Range	Maximum Power Limit	Bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz

Note: These limits are e.r.p. for emissions up to 1 GHz.

5.10 Receiver Spurious Emissions above 1 GHz

Frequency Range	Maximum Power Limit	Bandwidth
1 GHz to 26 GHz	-47 dBm	1 MHz

Note: These limits are e.i.r.p. for emissions above 1 GHz.

6 Test Arrangements

6.1 Carrier Frequencies

Test procedure refer to chapter 5.4.2 of EN 301 893 V2.1.1.

Measurement Method	Conducted measurement
Option 1: Equipment operating without modulation.	

6.2 Nominal Channel Bandwidth and Occupied Channel Bandwidth

Test procedure refer to chapter 5.4.3 of EN 301 893 V2.1.1.

Measurement Method	Conducted measurement
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6.3 RF Output Power

Test procedure refer to chapter 5.4.4 of EN 301 893 V2.1.1.

Measurement Method	Conducted measurement
Option 1: For equipment with continuous transmission capability or for equipment operating (or with the capability to operate) with a constant duty cycle (e.g. Frame Based equipment).	

6.4 Transmit Power Control (TPC)

Test procedure refer to chapter 5.4.4 of EN 301 893 V2.1.1.

Measurement Method	Conducted measurement
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6.5 Power Density

Test procedure refer to chapter 5.4.4 of EN 301 893 V2.1.1.

Measurement Method	Conducted measurement
Option 1: For equipment with continuous transmission capability or for equipment operating (or with the capability to operate) with a constant duty cycle (e.g. Frame Based equipment)	

6.6 Transmitter Unwanted Emissions outside the 5 GHz RLAN bands up to 1 GHz

Test procedure refer to chapter 5.4.5 of EN 301 893 V2.1.1.

Measurement Method	Radiated measurement
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6.7 Transmitter Unwanted Emissions outside the 5 GHz RLAN bands above 1 GHz

Test procedure refer to chapter 5.4.5 of EN 301 893 V2.1.1.

Measurement Method	Radiated measurement
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6.8 Transmitter Unwanted Emissions within the 5 GHz RLAN bands

Test procedure refer to chapter 5.4.6 of EN 301 893 V2.1.1.

Measurement Method	Conducted measurement
Option 2: For equipment without continuous transmission capability.	

6.9 Receiver Spurious Emissions up to 1 GHz

Test procedure refer to chapter 5.4.7 of EN 301 893 V2.1.1.

Measurement Method	Radiated measurement
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6.10 Receiver Spurious Emissions above 1 GHz

Test procedure refer to chapter 5.4.7 of EN 301 893 V2.1.1.

Measurement Method	Radiated measurement
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7 Test Results of Test Item

7.1 Carrier Frequencies

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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Test Mode A1 (1TX)

Channel	Frequency (MHz)	Carrier Centre Frequencies f _c (MHz)						Limit (ppm)	Test Result
		Test Conditions							
		25 °C		-10 °C		70 °C			
		Reading	ppm	Reading	ppm	Reading	ppm		
36	5180	5179.9975	-0.48	5179.9946	-1.04	5179.9982	-0.35	20	Pass
100	5500	5500.0052	0.95	5500.0089	1.62	5499.9995	-0.09	20	Pass

Test Mode A2 (2TX)

Channel	Frequency (MHz)	Carrier Centre Frequencies f _c (MHz)						Limit (ppm)	Test Result
		Test Conditions							
		25 °C		-10 °C		70 °C			
		Reading	ppm	Reading	ppm	Reading	ppm		
36	5180	5180.0035	0.68	5179.9956	-0.85	5180.0092	1.78	20	Pass
100	5500	5500.0052	0.95	5500.0139	2.53	5500.0045	0.82	20	Pass

7.2 Nominal Channel Bandwidth and Occupied Channel Bandwidth

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyoung Wang
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Test Mode A1 (1TX)

802.11a

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	Minimum limit (MHz)	Maximum limit (MHz)	Test Result
36	5180	16.64	16	20	Pass
100	5500	16.40	16	20	Pass

Note: The Nominal Channel Bandwidth is 20 MHz.

802.11be (EHT20)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	Minimum limit (MHz)	Maximum limit (MHz)	Test Result
36	5180	19.04	16	20	Pass
100	5500	18.88	16	20	Pass

Note: The Nominal Channel Bandwidth is 20 MHz.

802.11be (EHT40)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	Minimum limit (MHz)	Maximum limit (MHz)	Test Result
38	5190	37.76	32	40	Pass
102	5510	37.76	32	40	Pass

Note: The Nominal Channel Bandwidth is 40 MHz.

802.11be (EHT80)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	Minimum limit (MHz)	Maximum limit (MHz)	Test Result
42	5210	77.12	64	80	Pass
106	5530	77.12	64	80	Pass

Note: The Nominal Channel Bandwidth is 80 MHz.

802.11be (EHT160)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	Minimum limit (MHz)	Maximum limit (MHz)	Test Result
50	5250	155.52	128	160	Pass
114	5570	154.88	128	160	Pass

Note: The Nominal Channel Bandwidth is 160 MHz.

Test Mode A2 (2TX)

802.11a

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	Minimum limit (MHz)	Maximum limit (MHz)	Test Result
36	5180	16.48	16	20	Pass
100	5500	16.40	16	20	Pass

Note: The Nominal Channel Bandwidth is 20 MHz.

802.11be (EHT20)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	Minimum limit (MHz)	Maximum limit (MHz)	Test Result
36	5180	19.04	16	20	Pass
100	5500	18.88	16	20	Pass

Note: The Nominal Channel Bandwidth is 20 MHz.

802.11be (EHT40)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	Minimum limit (MHz)	Maximum limit (MHz)	Test Result
38	5190	37.76	32	40	Pass
102	5510	37.70	32	40	Pass

Note: The Nominal Channel Bandwidth is 40 MHz.

802.11be (EHT80)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	Minimum limit (MHz)	Maximum limit (MHz)	Test Result
42	5210	77.12	64	80	Pass
106	5530	77.12	64	80	Pass

Note: The Nominal Channel Bandwidth is 80 MHz.

802.11be (EHT160)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	Minimum limit (MHz)	Maximum limit (MHz)	Test Result
50	5250	155.52	128	160	Pass
114	5570	155.52	128	160	Pass

Note: The Nominal Channel Bandwidth is 160 MHz.

7.3 RF Output Power

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyoung Wang
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Test Mode B1 (1TX)

802.11a

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	14.06	13.74	14.29	23	Pass
64	5320	14.09	13.75	14.34	23	Pass
100	5500	13.57	13.21	13.81	23	Pass
140	5700	13.60	13.23	13.82	23	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	13.78	13.44	14.03	23	Pass
64	5320	13.85	13.52	14.08	23	Pass
100	5500	13.55	13.22	13.81	23	Pass
140	5700	13.54	13.20	13.77	23	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
38	5190	12.62	12.28	12.85	23	Pass
62	5310	12.58	12.26	12.83	23	Pass
102	5510	12.71	12.33	12.98	23	Pass
134	5670	12.69	12.33	12.95	23	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
42	5210	12.34	12.02	12.60	23	Pass
58	5290	12.36	12.02	12.59	23	Pass
106	5530	12.51	12.14	12.75	23	Pass
122	5610	12.29	11.93	12.51	23	Pass

802.11ax (HE160)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	11.31	10.97	11.55	23	Pass
114	5570	10.89	10.52	11.15	23	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	13.84	13.50	14.09	23	Pass
64	5320	13.89	13.56	14.12	23	Pass
100	5500	13.56	13.23	13.82	23	Pass
140	5700	13.60	13.26	13.83	23	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
38	5190	12.67	12.33	12.90	23	Pass
62	5310	12.62	12.30	12.87	23	Pass
102	5510	12.75	12.37	13.02	23	Pass
134	5670	12.72	12.36	12.98	23	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
42	5210	12.39	12.07	12.65	23	Pass
58	5290	12.40	12.06	12.63	23	Pass
106	5530	12.53	12.16	12.77	23	Pass
122	5610	12.32	11.96	12.54	23	Pass

802.11be (EHT160)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	11.37	11.03	11.61	23	Pass
114	5570	10.94	10.57	11.20	23	Pass

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	12.61	12.27	12.86	23	Pass
64	5320	12.58	12.25	12.81	23	Pass
100	5500	12.57	12.24	12.83	23	Pass
140	5700	12.55	12.21	12.78	23	Pass

802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	13.81	13.47	14.06	23	Pass
64	5320	13.85	13.52	14.08	23	Pass
100	5500	13.55	13.22	13.81	23	Pass
140	5700	13.56	13.22	13.79	23	Pass

802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	13.83	13.49	14.08	23	Pass
64	5320	13.85	13.52	14.08	23	Pass
100	5500	13.55	13.22	13.81	23	Pass
140	5700	13.56	13.22	13.79	23	Pass

802.11be (EHT20) 52+26-tone MRU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	13.81	13.47	14.06	23	Pass
64	5320	13.84	13.51	14.07	23	Pass
100	5500	13.51	13.18	13.77	23	Pass
140	5700	13.56	13.22	13.79	23	Pass

802.11be (EHT20) 106+26-tone MRU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	13.81	13.47	14.06	23	Pass
64	5320	13.83	13.50	14.06	23	Pass
100	5500	13.54	13.21	13.80	23	Pass
140	5700	13.52	13.18	13.75	23	Pass

802.11be (EHT80) 484+242-tone MRU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
42	5210	12.24	11.92	12.50	23	Pass
58	5290	12.31	11.97	12.54	23	Pass
106	5530	12.33	11.96	12.57	23	Pass
122	5610	12.22	11.86	12.44	23	Pass

802.11be (EHT160) 996+484-tone MRU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	11.24	10.90	11.48	23	Pass
114	5570	10.84	10.47	11.10	23	Pass

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

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	11.17	10.83	11.41	23	Pass
114	5570	10.81	10.44	11.07	23	Pass

Test Mode B2 (2TX)

802.11a

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	16.87	16.55	17.10	23	Pass
64	5320	16.88	16.54	17.13	23	Pass
100	5500	16.28	15.92	16.52	23	Pass
140	5700	16.34	15.97	16.56	23	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	16.63	16.29	16.88	23	Pass
64	5320	16.74	16.41	16.97	23	Pass
100	5500	16.34	16.01	16.60	23	Pass
140	5700	16.40	16.06	16.63	23	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
38	5190	15.24	14.90	15.47	23	Pass
62	5310	15.23	14.91	15.48	23	Pass
102	5510	15.09	14.71	15.36	23	Pass
134	5670	15.16	14.80	15.42	23	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
42	5210	14.44	14.12	14.70	23	Pass
58	5290	14.57	14.23	14.80	23	Pass
106	5530	14.61	14.24	14.85	23	Pass
122	5610	14.44	14.08	14.66	23	Pass

802.11ax (HE160)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	14.31	13.97	14.55	23	Pass
114	5570	14.33	13.96	14.59	23	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	16.67	16.33	16.92	23	Pass
64	5320	16.79	16.50	17.06	23	Pass
100	5500	16.40	16.07	16.66	23	Pass
140	5700	16.46	16.12	16.69	23	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
38	5190	15.27	14.93	15.50	23	Pass
62	5310	15.26	14.94	15.51	23	Pass
102	5510	15.13	14.75	15.40	23	Pass
134	5670	15.18	14.82	15.44	23	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
42	5210	14.51	14.19	14.77	23	Pass
58	5290	14.61	14.27	14.84	23	Pass
106	5530	14.67	14.30	14.91	23	Pass
122	5610	14.49	14.13	14.71	23	Pass

802.11be (EHT160)

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	14.33	13.99	14.57	23	Pass
114	5570	14.36	13.99	14.62	23	Pass

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	12.82	12.48	13.07	23	Pass
64	5320	12.81	12.48	13.04	23	Pass
100	5500	12.64	12.31	12.90	23	Pass
140	5700	12.68	12.34	12.91	23	Pass

802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	15.79	15.45	16.04	23	Pass
64	5320	15.59	15.26	15.82	23	Pass
100	5500	15.28	14.95	15.54	23	Pass
140	5700	15.45	15.11	15.68	23	Pass

802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	16.62	16.28	16.87	23	Pass
64	5320	16.73	16.40	16.96	23	Pass
100	5500	16.34	16.01	16.60	23	Pass
140	5700	16.41	16.07	16.64	23	Pass

802.11be (EHT20) 52+26-tone MRU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	16.15	15.81	16.40	23	Pass
64	5320	16.24	15.91	16.47	23	Pass
100	5500	15.87	15.54	16.13	23	Pass
140	5700	15.94	15.60	16.17	23	Pass

802.11be (EHT20) 106+26-tone MRU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
36	5180	16.63	16.29	16.88	23	Pass
64	5320	16.74	16.41	16.97	23	Pass
100	5500	16.38	16.05	16.64	23	Pass
140	5700	16.44	16.10	16.67	23	Pass

802.11be (EHT80) 484+242-tone MRU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
42	5210	14.42	14.10	14.68	23	Pass
58	5290	14.48	14.14	14.71	23	Pass
106	5530	14.52	14.15	14.76	23	Pass
122	5610	14.44	14.08	14.66	23	Pass

802.11be (EHT160) 996+484-tone MRU

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	14.29	13.95	14.53	23	Pass
114	5570	14.32	13.95	14.58	23	Pass

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

Channel	Frequency (MHz)	EIRP (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	14.29	13.95	14.53	23	Pass
114	5570	14.31	13.94	14.57	23	Pass

7.4 Transmit Power Control (TPC)

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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Test Mode B1 (1TX)

802.11a

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	8.09	7.75	8.34	17	Pass
100	5500	7.57	7.21	7.81	17	Pass
140	5700	7.60	7.23	7.82	17	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	7.85	7.52	8.08	17	Pass
100	5500	7.55	7.22	7.81	17	Pass
140	5700	7.54	7.20	7.77	17	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
62	5310	6.58	6.26	6.83	17	Pass
102	5510	6.71	6.33	6.98	17	Pass
134	5670	6.69	6.33	6.95	17	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
58	5290	6.36	6.02	6.59	17	Pass
106	5530	6.51	6.14	6.75	17	Pass
122	5610	6.29	5.93	6.51	17	Pass

802.11ax (HE160)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	5.31	4.97	5.55	17	Pass
114	5570	4.89	4.52	5.15	17	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	7.89	7.56	8.12	17	Pass
100	5500	7.56	7.23	7.82	17	Pass
140	5700	7.60	7.26	7.83	17	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
62	5310	6.62	6.30	6.87	17	Pass
102	5510	6.75	6.37	7.02	17	Pass
134	5670	6.72	6.36	6.98	17	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
58	5290	6.40	6.06	6.63	17	Pass
106	5530	6.53	6.16	6.77	17	Pass
122	5610	6.32	5.96	6.54	17	Pass

802.11be (EHT160)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	5.37	5.03	5.61	17	Pass
114	5570	4.94	4.57	5.20	17	Pass

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	6.58	6.25	6.81	17	Pass
100	5500	6.57	6.24	6.83	17	Pass
140	5700	6.55	6.21	6.78	17	Pass

802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	7.85	7.52	8.08	17	Pass
100	5500	7.55	7.22	7.81	17	Pass
140	5700	7.56	7.22	7.79	17	Pass

802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	7.85	7.52	8.08	17	Pass
100	5500	7.55	7.22	7.81	17	Pass
140	5700	7.56	7.22	7.79	17	Pass

802.11be (EHT20) 52+26-tone MRU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	7.84	7.51	8.07	17	Pass
100	5500	7.51	7.18	7.77	17	Pass
140	5700	7.56	7.22	7.79	17	Pass

802.11be (EHT20) 106+26-tone MRU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	7.83	7.50	8.06	17	Pass
100	5500	7.54	7.21	7.80	17	Pass
140	5700	7.52	7.18	7.75	17	Pass

802.11be (EHT80) 484+242-tone MRU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
58	5290	6.31	5.97	6.54	17	Pass
106	5530	6.33	5.96	6.57	17	Pass
122	5610	6.22	5.86	6.44	17	Pass

802.11be (EHT160) 996+484-tone MRU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	5.24	4.90	5.48	17	Pass
114	5570	4.84	4.47	5.10	17	Pass

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

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	5.17	4.83	5.41	17	Pass
114	5570	4.81	4.44	5.07	17	Pass

Test Mode B2 (2TX)

802.11a

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	10.88	10.54	11.13	17	Pass
100	5500	10.28	9.92	10.52	17	Pass
140	5700	10.34	9.97	10.56	17	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	10.74	10.41	10.97	17	Pass
100	5500	10.34	10.01	10.60	17	Pass
140	5700	10.40	10.06	10.63	17	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
62	5310	9.23	8.91	9.48	17	Pass
102	5510	9.09	8.71	9.36	17	Pass
134	5670	9.16	8.80	9.42	17	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
58	5290	8.57	8.23	8.80	17	Pass
106	5530	8.61	8.24	8.85	17	Pass
122	5610	8.44	8.08	8.66	17	Pass

802.11ax (HE160)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	8.31	7.97	8.55	17	Pass
114	5570	8.33	7.96	8.59	17	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	10.79	10.50	11.06	17	Pass
100	5500	10.40	10.07	10.66	17	Pass
140	5700	10.46	10.12	10.69	17	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
62	5310	9.26	8.94	9.51	17	Pass
102	5510	9.13	8.75	9.40	17	Pass
134	5670	9.18	8.82	9.44	17	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
58	5290	8.61	8.27	8.84	17	Pass
106	5530	8.67	8.30	8.91	17	Pass
122	5610	8.49	8.13	8.71	17	Pass

802.11be (EHT160)

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	8.33	7.99	8.57	17	Pass
114	5570	8.36	7.99	8.62	17	Pass

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	6.81	6.48	7.04	17	Pass
100	5500	6.64	6.31	6.90	17	Pass
140	5700	6.68	6.34	6.91	17	Pass

802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	9.59	9.26	9.82	17	Pass
100	5500	9.28	8.95	9.54	17	Pass
140	5700	9.45	9.11	9.68	17	Pass

802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	10.73	10.40	10.96	17	Pass
100	5500	10.34	10.01	10.60	17	Pass
140	5700	10.41	10.07	10.64	17	Pass

802.11be (EHT20) 52+26-tone MRU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	10.24	9.91	10.47	17	Pass
100	5500	9.87	9.54	10.13	17	Pass
140	5700	9.94	9.60	10.17	17	Pass

802.11be (EHT20) 106+26-tone MRU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
64	5320	10.74	10.41	10.97	17	Pass
100	5500	10.38	10.05	10.64	17	Pass
140	5700	10.44	10.10	10.67	17	Pass

802.11be (EHT80) 484+242-tone MRU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
58	5290	8.48	8.14	8.71	17	Pass
106	5530	8.52	8.15	8.76	17	Pass
122	5610	8.44	8.08	8.66	17	Pass

802.11be (EHT160) 996+484-tone MRU

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	8.29	7.95	8.53	17	Pass
114	5570	8.32	7.95	8.58	17	Pass

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

Channel	Frequency (MHz)	EIRP at the Lowest Power Level (dBm)			Limit (dBm)	Test Result
		Test Conditions				
		25 °C	-10 °C	70 °C		
50	5250	8.29	7.95	8.53	17	Pass
114	5570	8.31	7.94	8.57	17	Pass

7.5 Power Density

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyoung Wang
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Test Mode B1 (1TX)

802.11a

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	3.70	10	Pass
64	5320	3.77	10	Pass
100	5500	3.48	10	Pass
140	5700	3.69	10	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	2.08	10	Pass
64	5320	2.11	10	Pass
100	5500	1.97	10	Pass
140	5700	1.91	10	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
38	5190	-2.51	10	Pass
62	5310	-2.55	10	Pass
102	5510	-2.39	10	Pass
134	5670	-2.42	10	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
42	5210	-5.99	10	Pass
58	5290	-5.96	10	Pass
106	5530	-5.81	10	Pass
122	5610	-6.06	10	Pass

802.11ax (HE160)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
50	5250	-10.23	10	Pass
114	5570	-10.28	10	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	2.10	10	Pass
64	5320	2.13	10	Pass
100	5500	1.99	10	Pass
140	5700	2.02	10	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
38	5190	-2.43	10	Pass
62	5310	-2.54	10	Pass
102	5510	-2.30	10	Pass
134	5670	-2.35	10	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
42	5210	-5.77	10	Pass
58	5290	-5.73	10	Pass
106	5530	-5.59	10	Pass
122	5610	-5.85	10	Pass

802.11be (EHT160)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
50	5250	-9.93	10	Pass
114	5570	-10.05	10	Pass

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	9.97	10	Pass
64	5320	9.95	10	Pass
100	5500	9.91	10	Pass
140	5700	9.91	10	Pass

802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	7.98	10	Pass
64	5320	8.01	10	Pass
100	5500	7.88	10	Pass
140	5700	7.89	10	Pass

802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	6.50	10	Pass
64	5320	6.63	10	Pass
100	5500	6.45	10	Pass
140	5700	6.47	10	Pass

802.11be (EHT20) 52+26-tone MRU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	7.92	10	Pass
64	5320	7.93	10	Pass
100	5500	7.75	10	Pass
140	5700	7.85	10	Pass

802.11be (EHT20) 106+26-tone MRU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	5.92	10	Pass
64	5320	5.93	10	Pass
100	5500	5.75	10	Pass
140	5700	5.74	10	Pass

802.11be (EHT80) 484+242-tone MRU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
42	5210	-3.59	10	Pass
58	5290	-3.42	10	Pass
106	5530	-3.40	10	Pass
122	5610	-3.71	10	Pass

802.11be (EHT160) 996+484-tone MRU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
50	5250	-7.20	10	Pass
114	5570	-7.65	10	Pass

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

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
50	5250	-7.95	10	Pass
114	5570	-8.12	10	Pass

Test Mode B2 (2TX)

802.11a

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	5.78	10	Pass
64	5320	5.79	10	Pass
100	5500	5.16	10	Pass
140	5700	5.74	10	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	5.48	10	Pass
64	5320	5.75	10	Pass
100	5500	5.24	10	Pass
140	5700	5.31	10	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
38	5190	0.85	10	Pass
62	5310	0.84	10	Pass
102	5510	0.67	10	Pass
134	5670	0.79	10	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
42	5210	-2.74	10	Pass
58	5290	-2.61	10	Pass
106	5530	-2.53	10	Pass
122	5610	-2.86	10	Pass

802.11ax (HE160)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
50	5250	-5.40	10	Pass
114	5570	-5.48	10	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	5.60	10	Pass
64	5320	5.83	10	Pass
100	5500	5.41	10	Pass
140	5700	5.44	10	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
38	5190	0.92	10	Pass
62	5310	0.98	10	Pass
102	5510	0.81	10	Pass
134	5670	0.86	10	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
42	5210	-2.47	10	Pass
58	5290	-2.34	10	Pass
106	5530	-2.30	10	Pass
122	5610	-2.61	10	Pass

802.11be (EHT160)

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
50	5250	-5.15	10	Pass
114	5570	-5.27	10	Pass

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	9.93	10	Pass
64	5320	9.85	10	Pass
100	5500	9.73	10	Pass
140	5700	9.77	10	Pass

802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	9.92	10	Pass
64	5320	9.90	10	Pass
100	5500	9.72	10	Pass
140	5700	9.81	10	Pass

802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	9.35	10	Pass
64	5320	9.48	10	Pass
100	5500	9.19	10	Pass
140	5700	9.27	10	Pass

802.11be (EHT20) 52+26-tone MRU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	9.87	10	Pass
64	5320	9.89	10	Pass
100	5500	9.84	10	Pass
140	5700	9.84	10	Pass

802.11be (EHT20) 106+26-tone MRU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
36	5180	8.82	10	Pass
64	5320	8.89	10	Pass
100	5500	8.62	10	Pass
140	5700	8.66	10	Pass

802.11be (EHT80) 484+242-tone MRU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
42	5210	-1.28	10	Pass
58	5290	-1.26	10	Pass
106	5530	-1.24	10	Pass
122	5610	-1.27	10	Pass

802.11be (EHT160) 996+484-tone MRU

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
50	5250	-4.77	10	Pass
114	5570	-5.10	10	Pass

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

Channel	Frequency (MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
50	5250	-5.44	10	Pass
114	5570	-5.76	10	Pass

7.6 Transmitter Unwanted Emissions outside the 5 GHz RLAN bands up to 1 GHz

Test Mode A1 (1TX)

802.11a

Spurious Emission Frequency Range	30 MHz ~ 1 GHz	Operating Channel	64
Input Power	230 Vac, 50 Hz	Environmental Conditions	22°C, 74% RH
Tested By	Vanness Huang		

Spurious Emission Level				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
105.02	V	-74.39	-54.00	-20.39
105.50	H	-75.15	-54.00	-21.15
195.39	H	-78.04	-54.00	-24.04
198.59	V	-76.65	-54.00	-22.65
381.48	V	-74.16	-36.00	-38.16
387.59	H	-74.57	-36.00	-38.57
478.80	H	-73.56	-54.00	-19.56
496.84	V	-70.94	-54.00	-16.94
593.30	V	-70.45	-54.00	-16.45
598.47	H	-70.63	-54.00	-16.63
674.07	V	-69.70	-54.00	-15.70
681.83	H	-70.02	-54.00	-16.02

Test Mode A2 (2TX)

802.11a

Spurious Emission Frequency Range	30 MHz ~ 1 GHz	Operating Channel	64
Input Power	230 Vac, 50 Hz	Environmental Conditions	22°C, 74% RH
Tested By	Vanness Huang		

Spurious Emission Level				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
91.11	V	-76.14	-54.00	-22.14
113.75	H	-74.93	-54.00	-20.93
199.72	H	-77.92	-54.00	-23.92
203.22	V	-79.02	-54.00	-25.02
307.72	H	-74.03	-36.00	-38.03
389.40	V	-73.30	-36.00	-37.30
489.76	V	-72.77	-54.00	-18.77
496.91	H	-71.58	-54.00	-17.58
571.12	V	-70.61	-54.00	-16.61
580.95	H	-69.27	-54.00	-15.27
666.02	V	-69.56	-54.00	-15.56
680.96	H	-69.42	-54.00	-15.42

7.7 Transmitter Unwanted Emissions outside the 5 GHz RLAN bands above 1 GHz

Test Mode A1 (1TX)

802.11a

Spurious Emission Frequency Range	1 GHz ~ 26 GHz	Operating Channel	64
Input Power	230 Vac, 50 Hz	Environmental Conditions	22°C, 74% RH
Tested By	Vanness Huang		

Spurious Emission Level					
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
64	5350.50	H	-37.60	-30.00	-7.60
	5350.50	V	-32.90	-30.00	-2.90
	10640.00	H	-48.85	-30.00	-18.85
	10640.00	V	-49.67	-30.00	-19.67

802.11ax (HE20)

Spurious Emission Frequency Range	1 GHz ~ 26 GHz	Operating Channel	140
Input Power	230 Vac, 50 Hz	Environmental Conditions	22°C, 74% RH
Tested By	Vanness Huang		

Spurious Emission Level					
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
140	5725.50	H	-38.23	-30.00	-8.23
	5725.50	V	-37.71	-30.00	-7.71
	11400.00	H	-47.80	-30.00	-17.80
	11400.00	V	-47.93	-30.00	-17.93

Test Mode A2 (2TX)

802.11a

Spurious Emission Frequency Range	1 GHz ~ 26 GHz	Operating Channel	64
Input Power	230 Vac, 50 Hz	Environmental Conditions	22°C, 74% RH
Tested By	Vanness Huang		

Spurious Emission Level					
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
64	5350.50	H	-36.92	-30.00	-6.92
	5350.50	V	-34.02	-30.00	-4.02
	10640.00	H	-48.79	-30.00	-18.79
	10640.00	V	-46.05	-30.00	-16.05

802.11ax (HE20)

Spurious Emission Frequency Range	1 GHz ~ 26 GHz	Operating Channel	140
Input Power	230 Vac, 50 Hz	Environmental Conditions	22°C, 74% RH
Tested By	Vanness Huang		

Spurious Emission Level					
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
140	5725.50	H	-35.68	-30.00	-5.68
	5725.50	V	-35.15	-30.00	-5.15
	11400.00	H	-48.26	-30.00	-18.26
	11400.00	V	-48.37	-30.00	-18.37

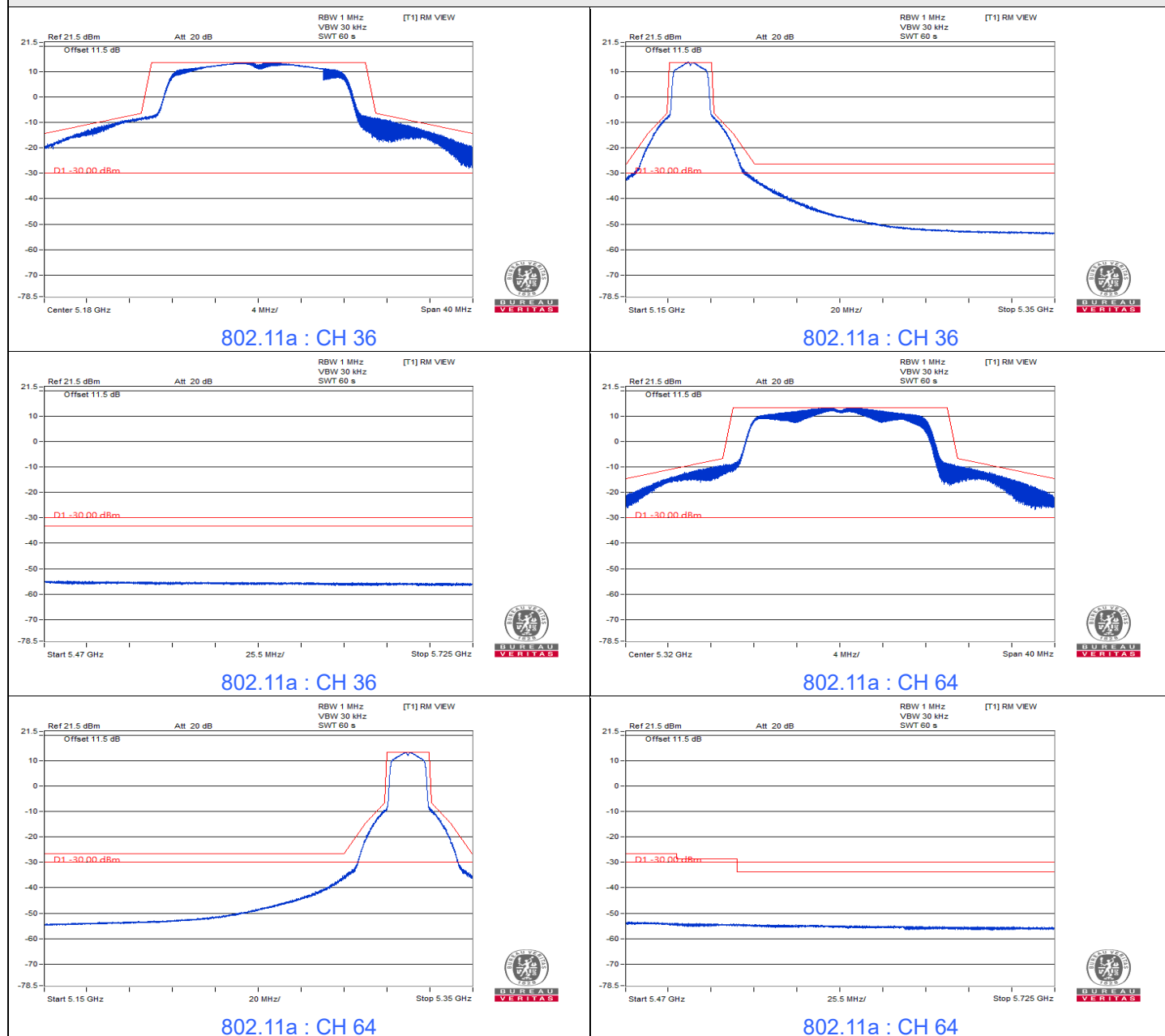
7.8 Transmitter Unwanted Emissions within the 5 GHz RLAN bands

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyoung Wang
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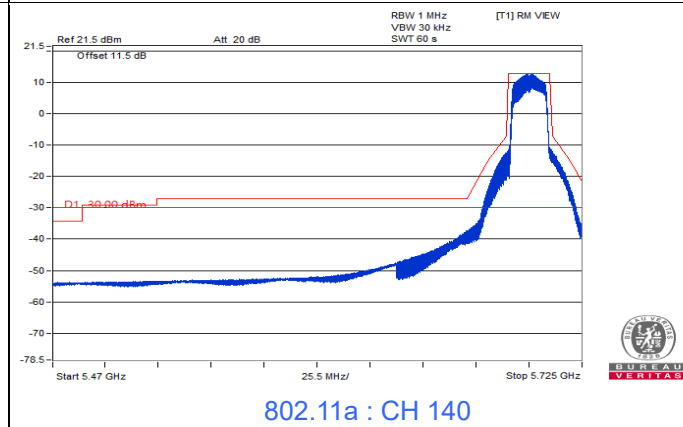
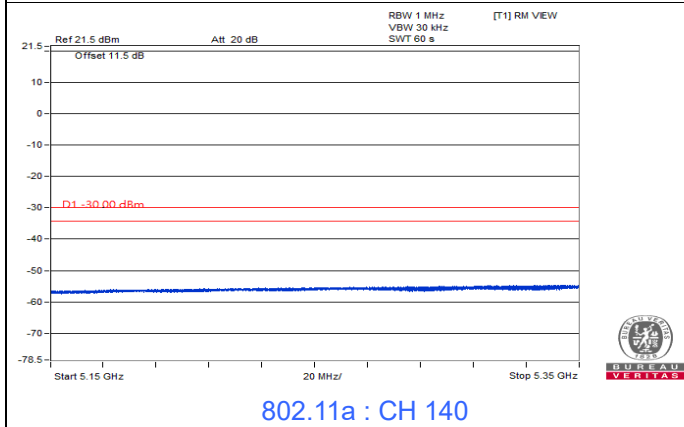
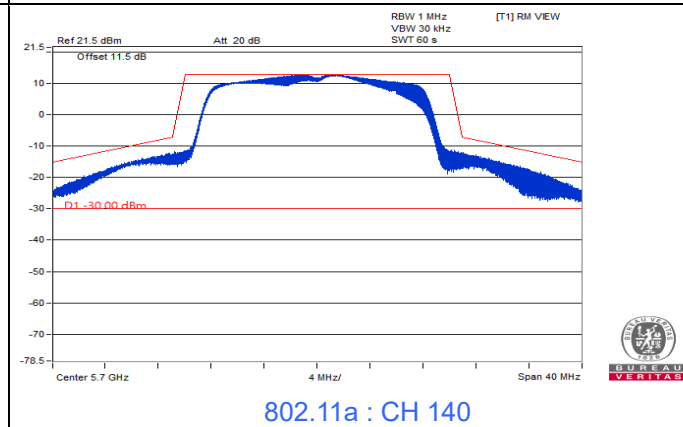
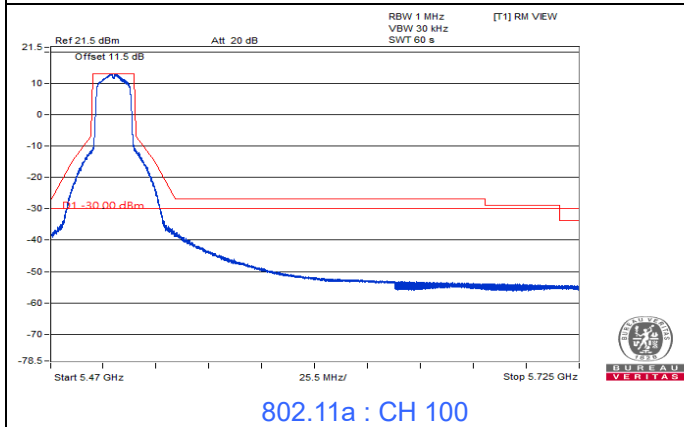
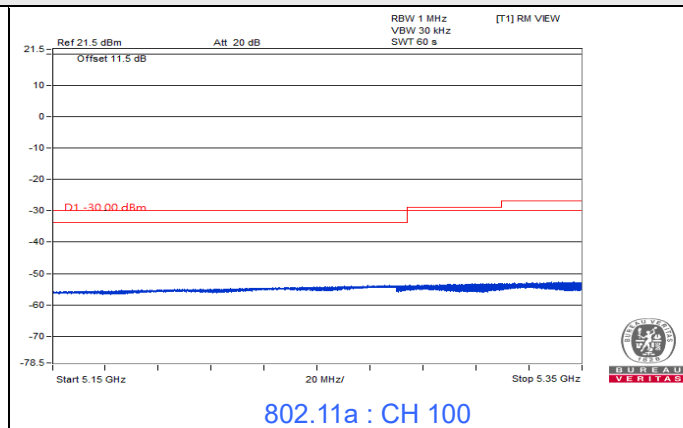
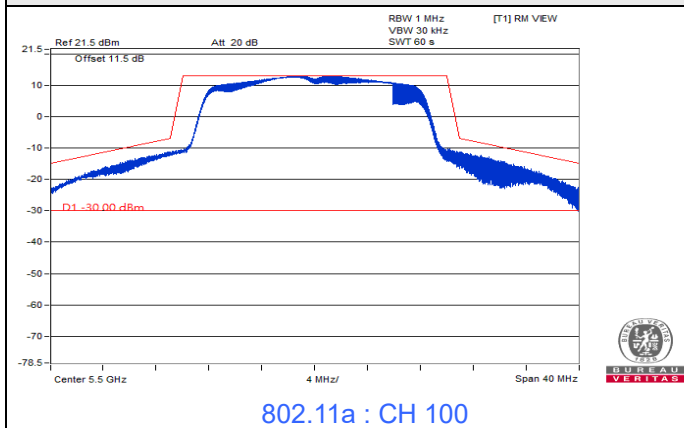
Test Mode A1 (1TX)

802.11a

Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands

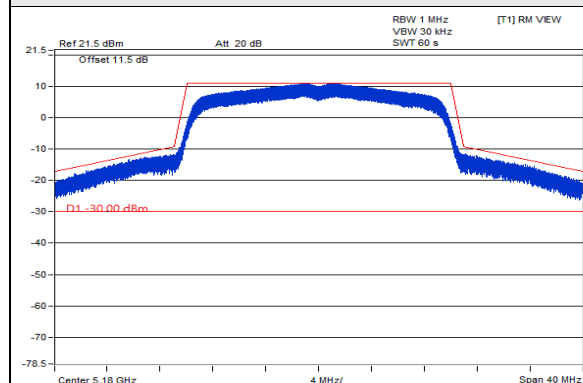


Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands

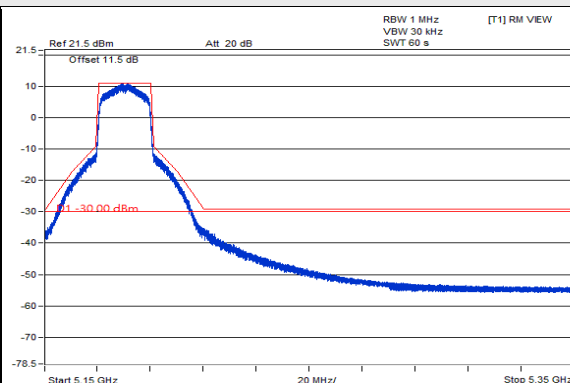


802.11be (EHT20)

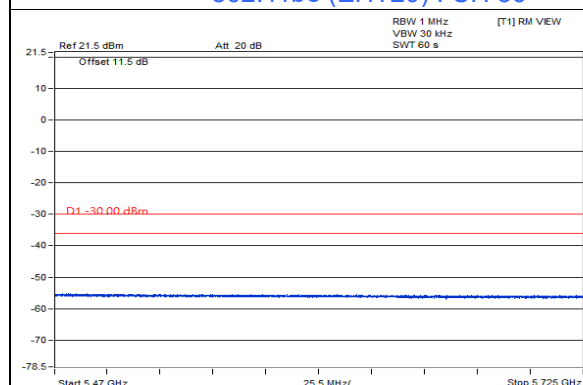
Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



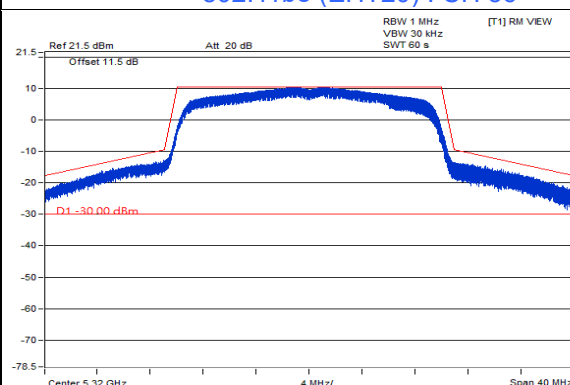
802.11be (EHT20) : CH 36



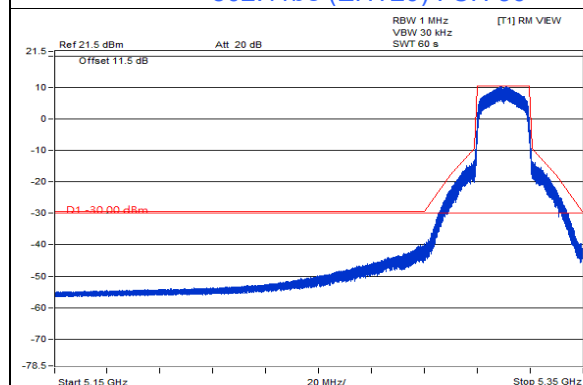
802.11be (EHT20) : CH 36



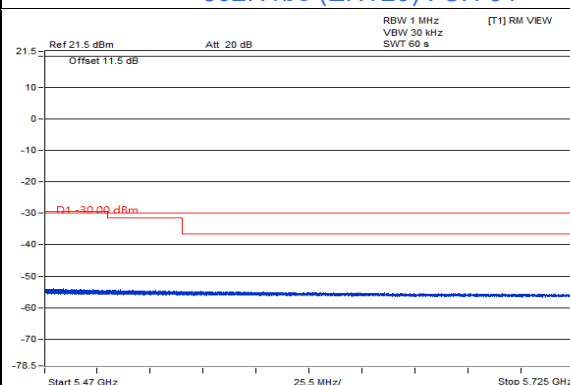
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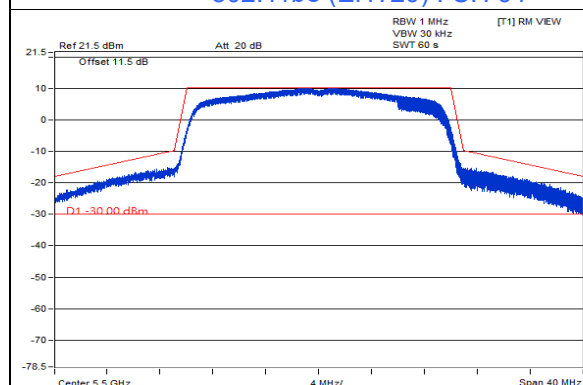
802.11be (EHT20) : CH 64



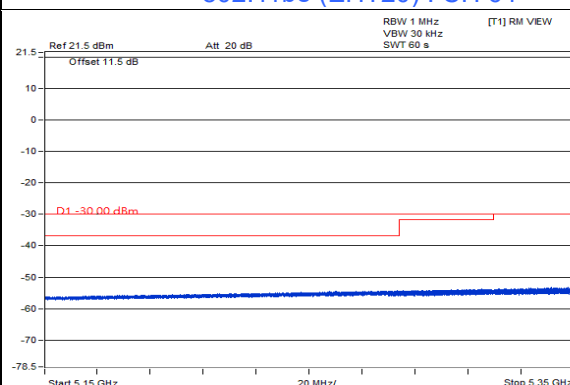
802.11be (EHT20) : CH 64



802.11be (EHT20) : CH 64



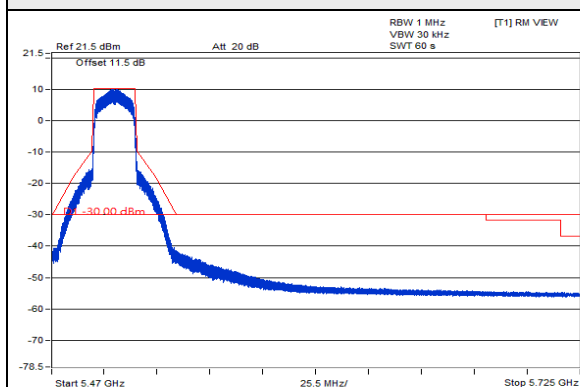
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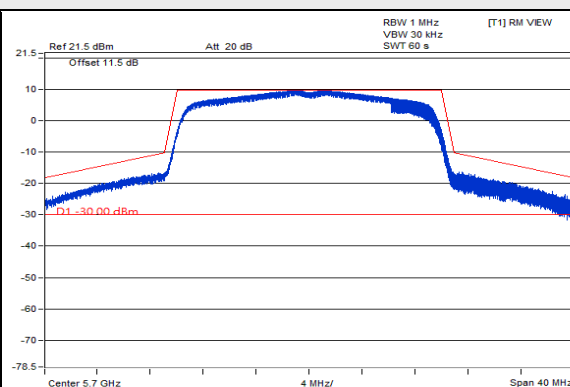
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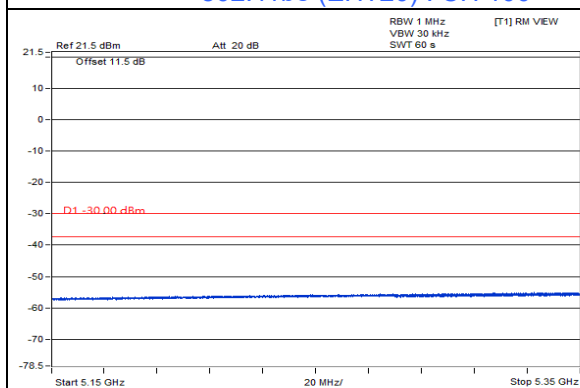
Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



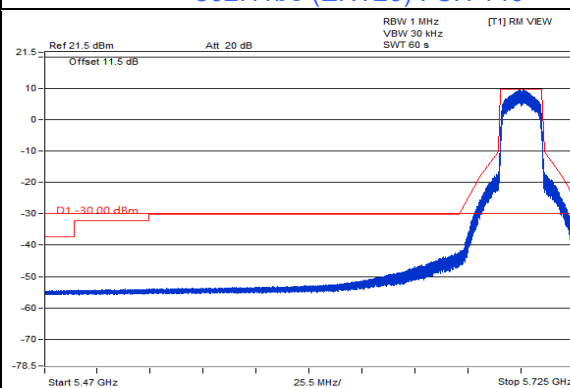
802.11be (EHT20) : CH 100



802.11be (EHT20) : CH 140



802.11be (EHT20) : CH 140

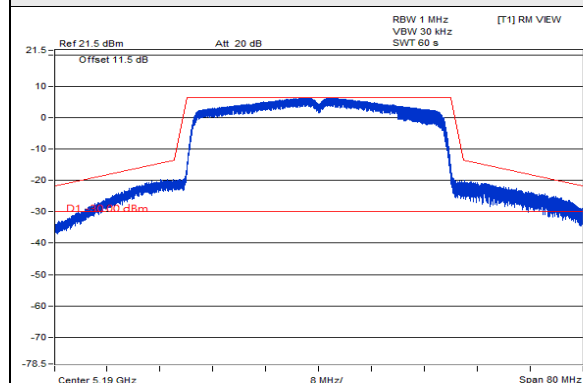


802.11be (EHT20) : CH 140

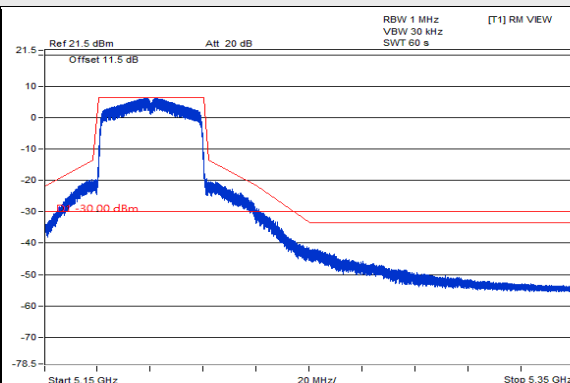


802.11be (EHT40)

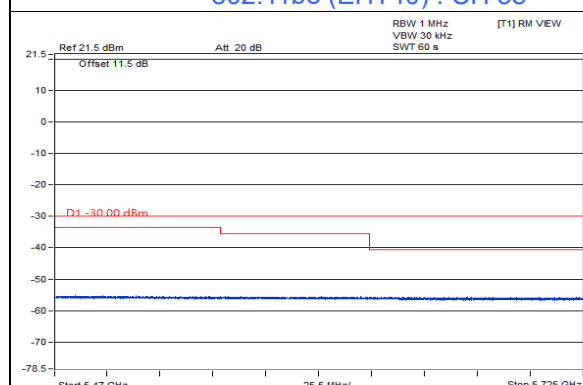
Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



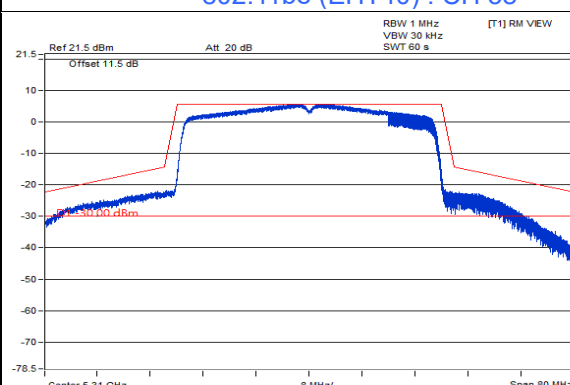
802.11be (EHT40) : CH 38



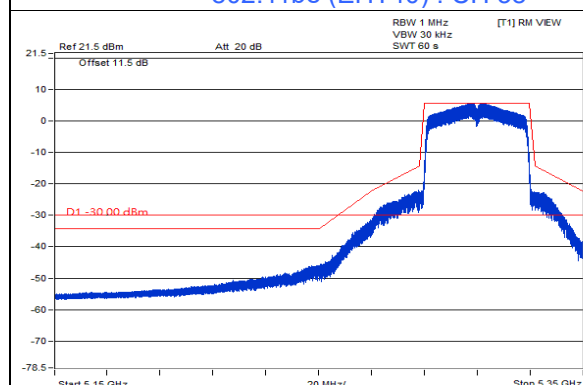
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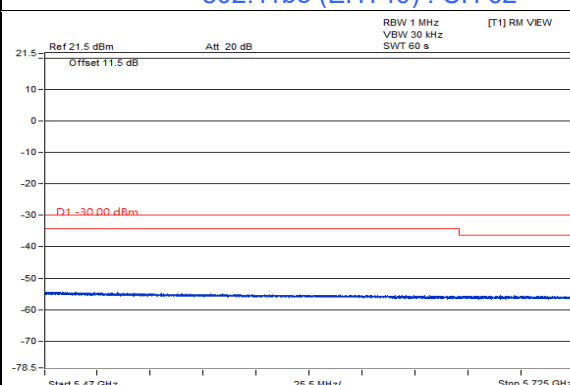
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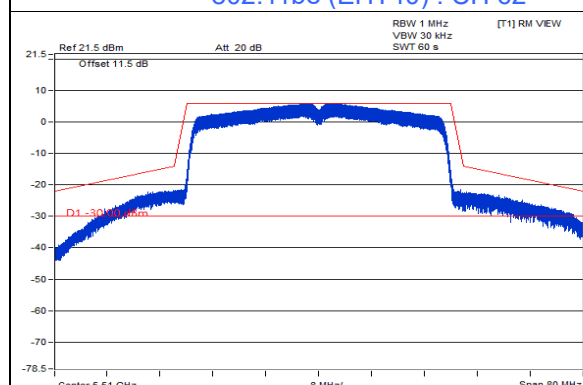
802.11be (EHT40) : CH 62



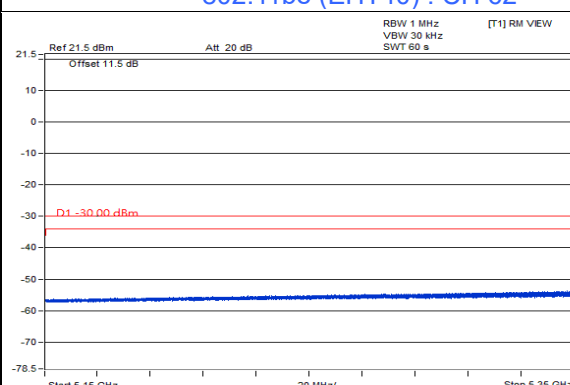
802.11be (EHT40) : CH 62



802.11be (EHT40) : CH 62

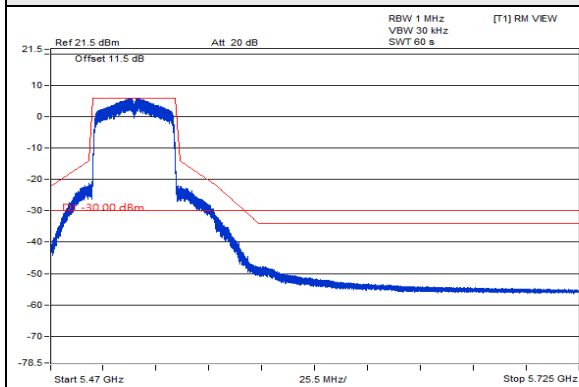


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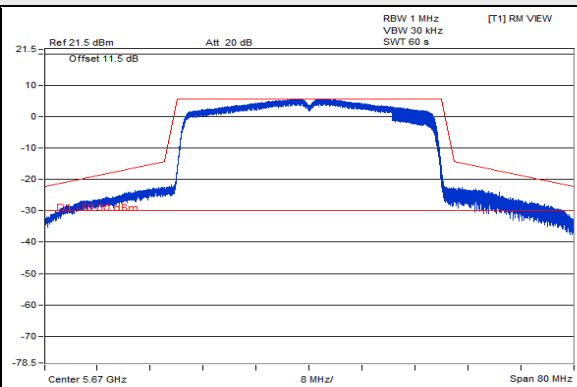


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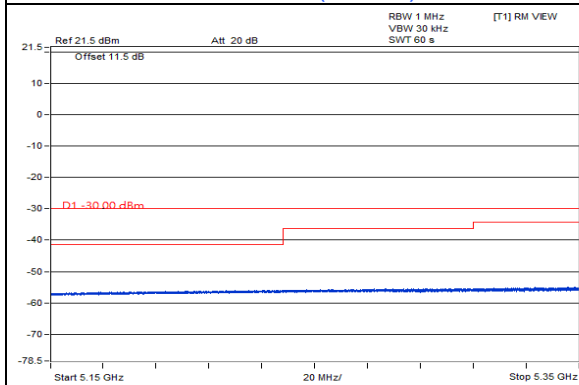
Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



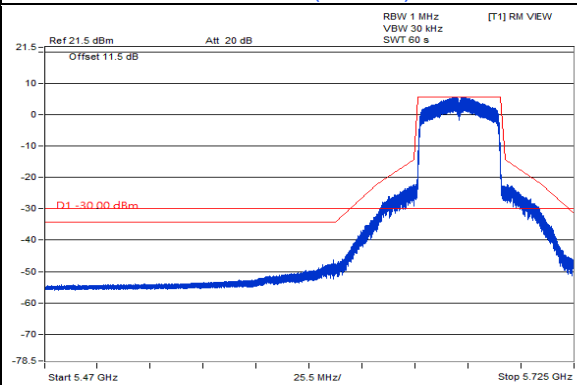
802.11be (EHT40) : CH 102



802.11be (EHT40) : CH 134



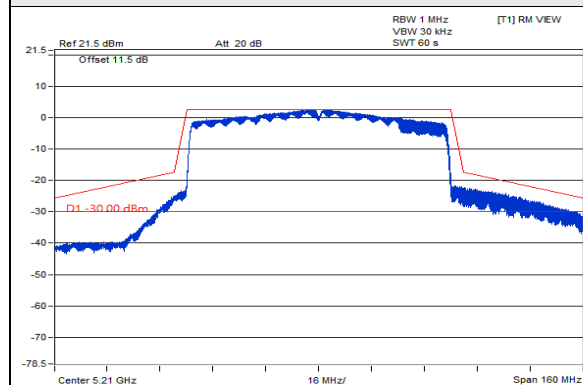
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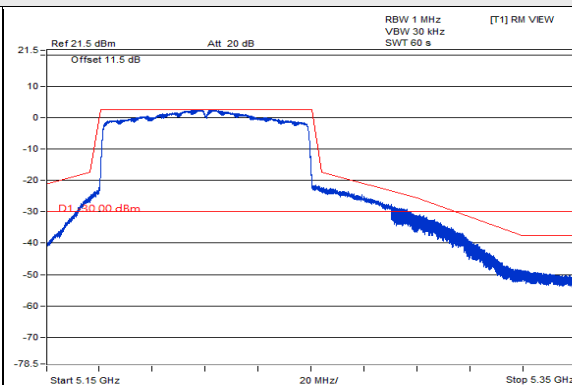
802.11be (EHT40) : CH 134

802.11be (EHT80)

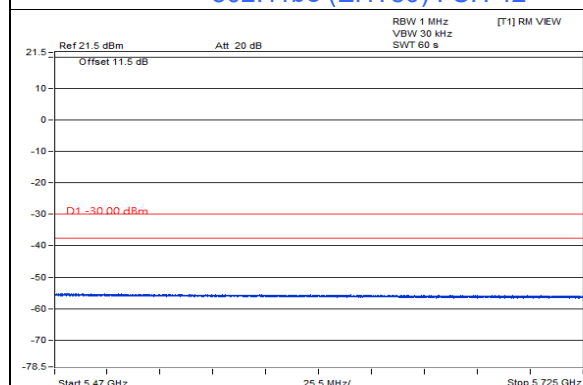
Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



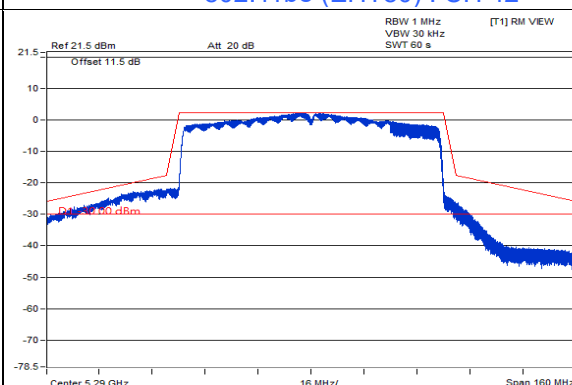
802.11be (EHT80) : CH 42



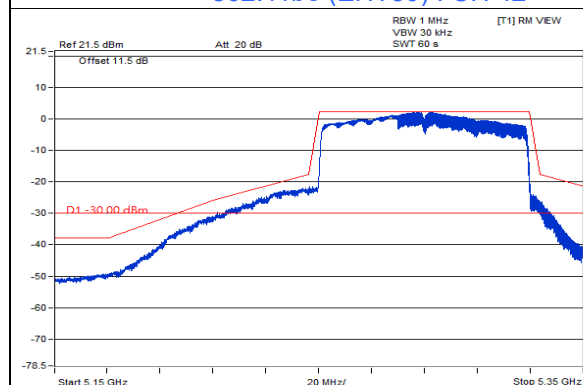
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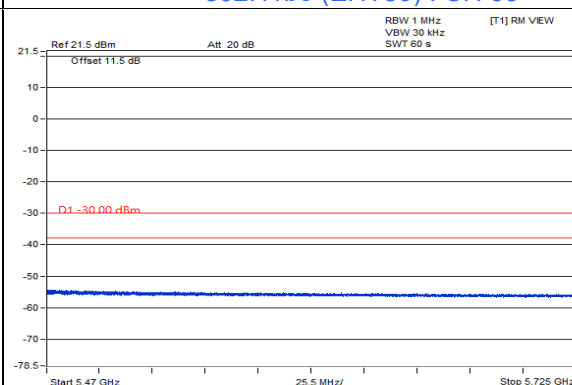
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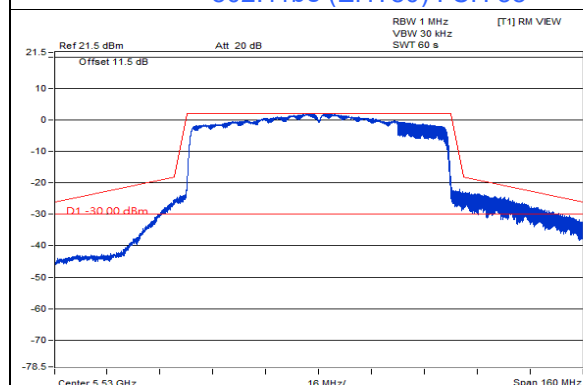
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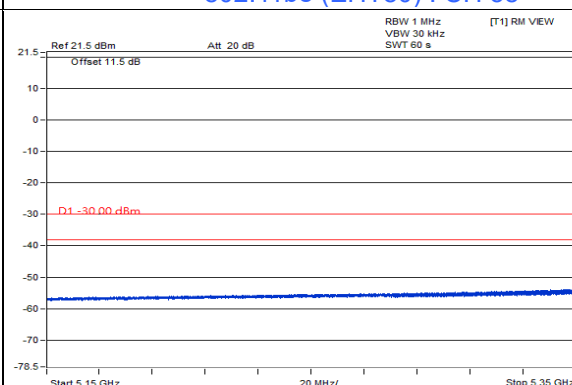
802.11be (EHT80) : CH 58



802.11be (EHT80) : CH 58

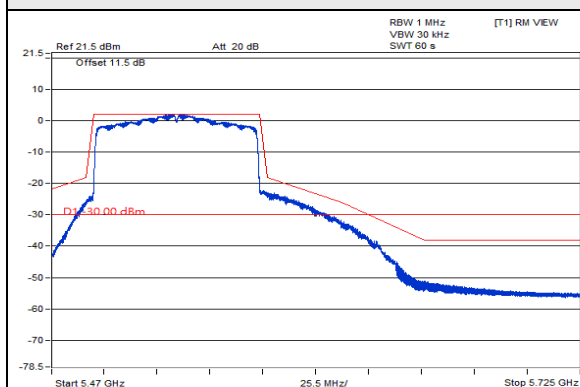


802.11be (EHT80) : CH 106

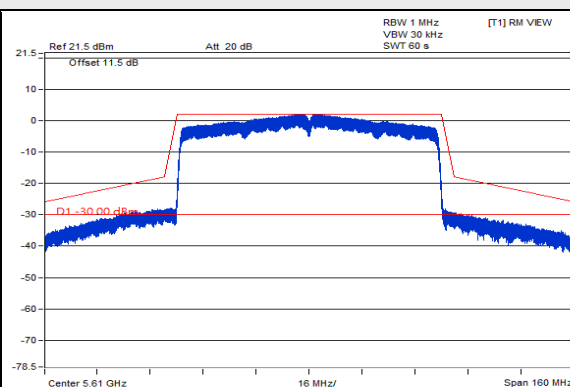


802.11be (EHT80) : CH 106

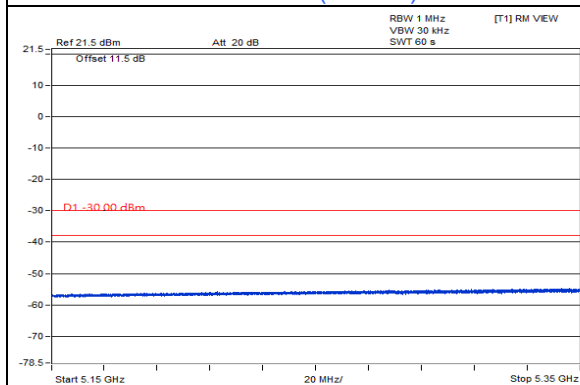
Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



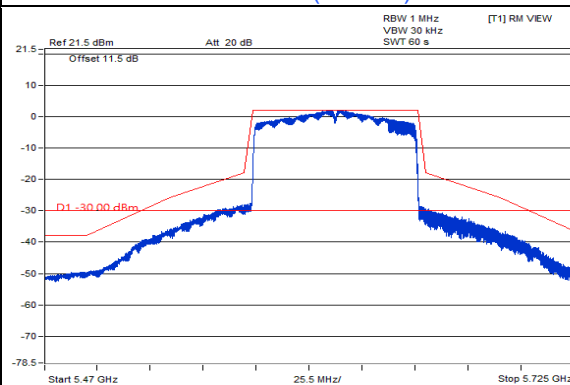
802.11be (EHT80) : CH 106



802.11be (EHT80) : CH 122



802.11be (EHT80) : CH 122

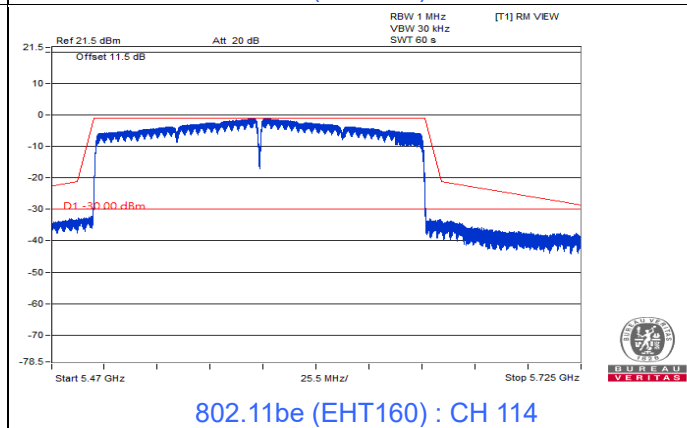
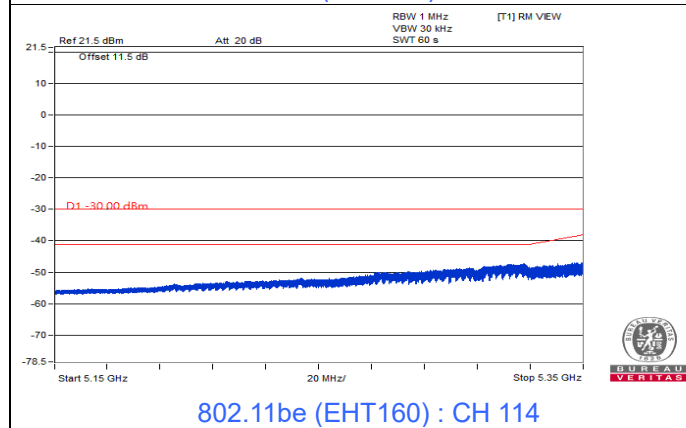
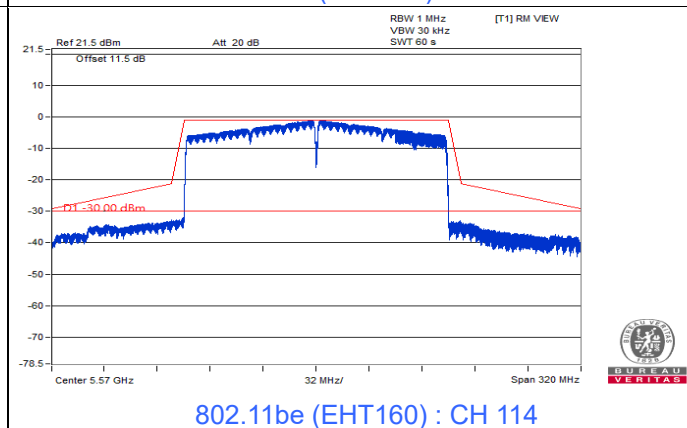
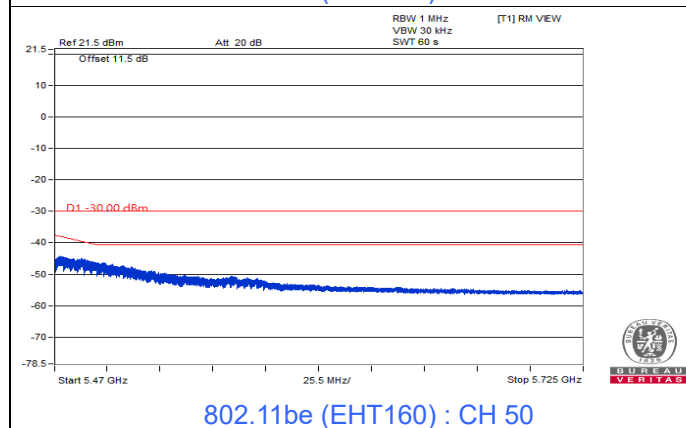
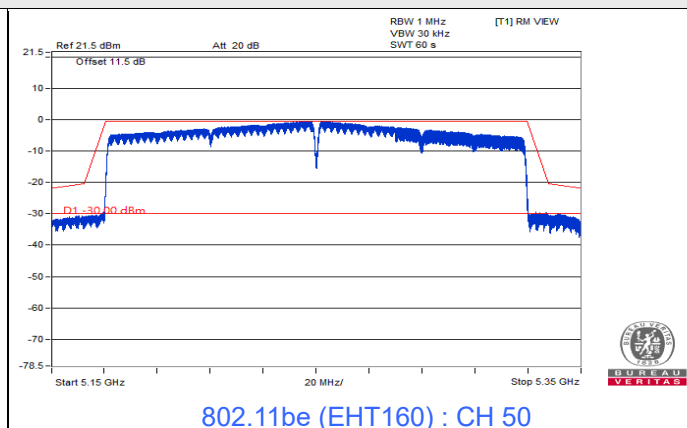
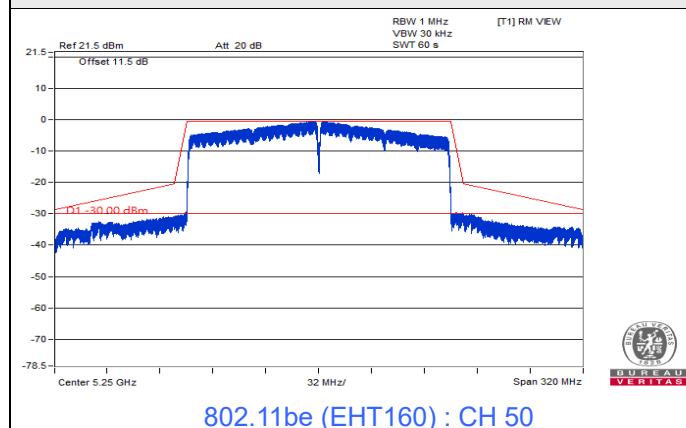


802.11be (EHT80) : CH 122



802.11be (EHT160)

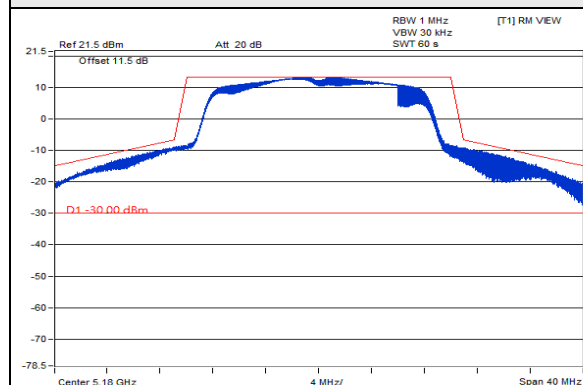
Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



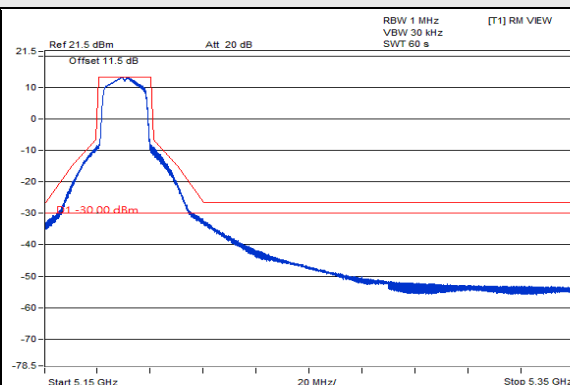
Test Mode A2 (2TX)

802.11a

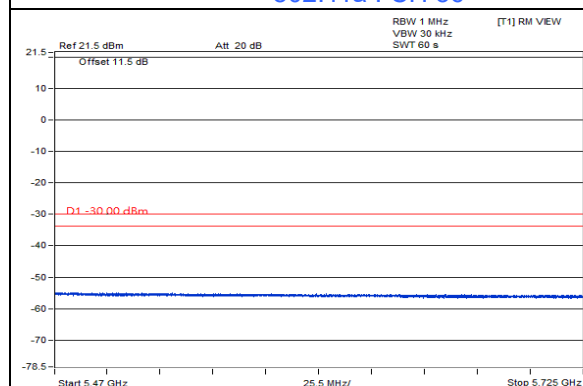
Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



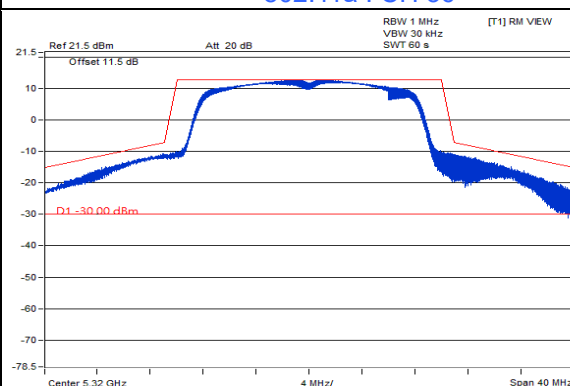
802.11a : CH 36



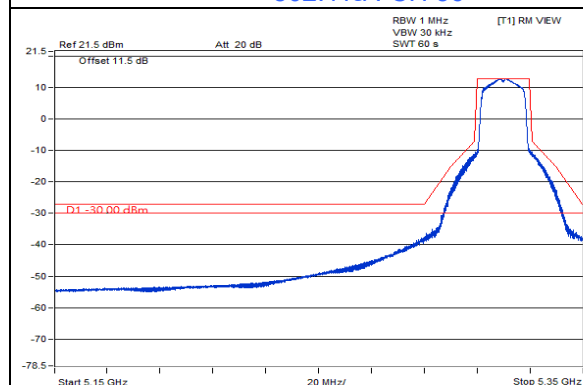
802.11a : CH 36



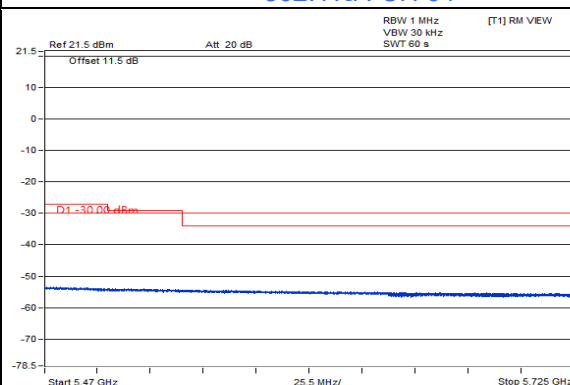
802.11a : CH 36



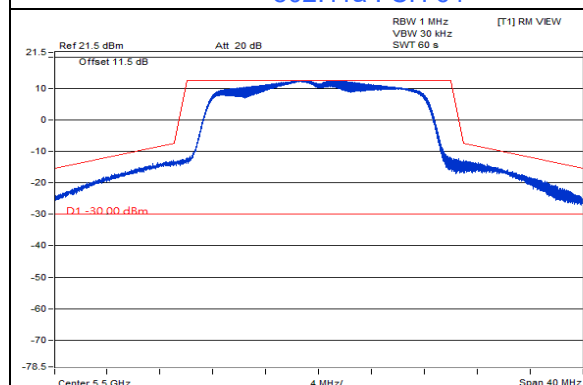
802.11a : CH 64



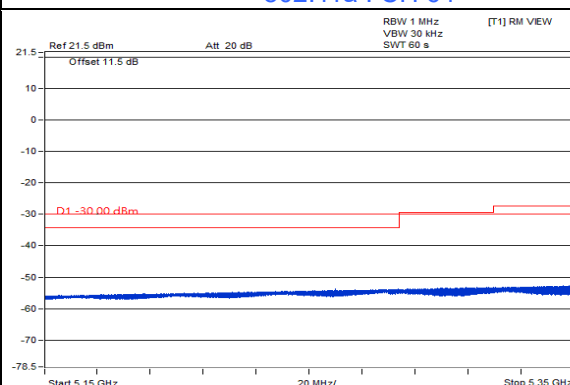
802.11a : CH 64



802.11a : CH 64

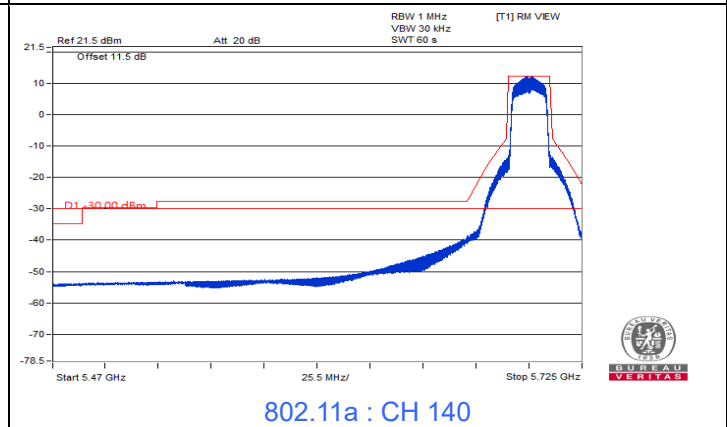
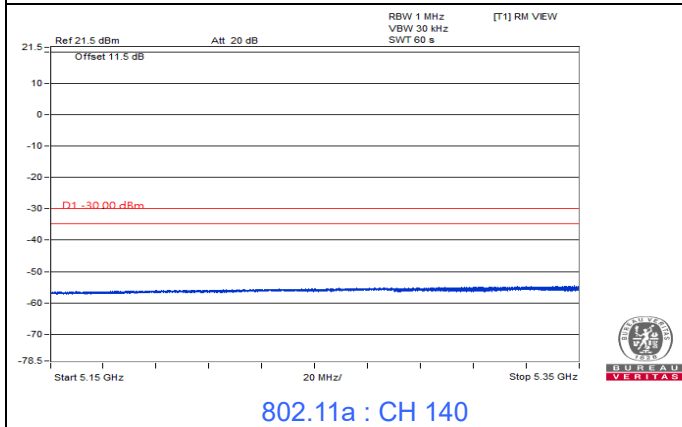
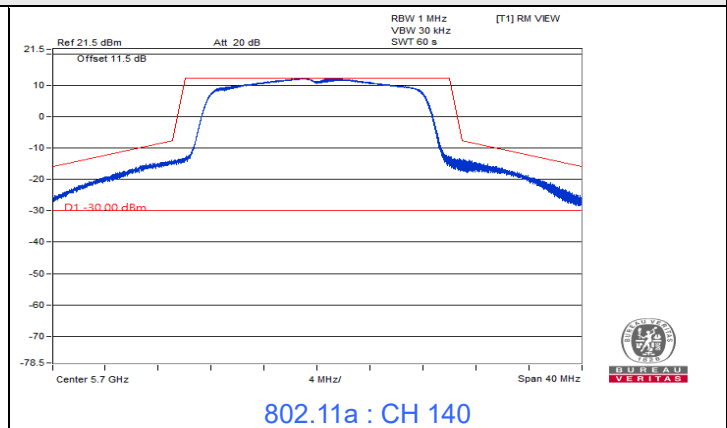
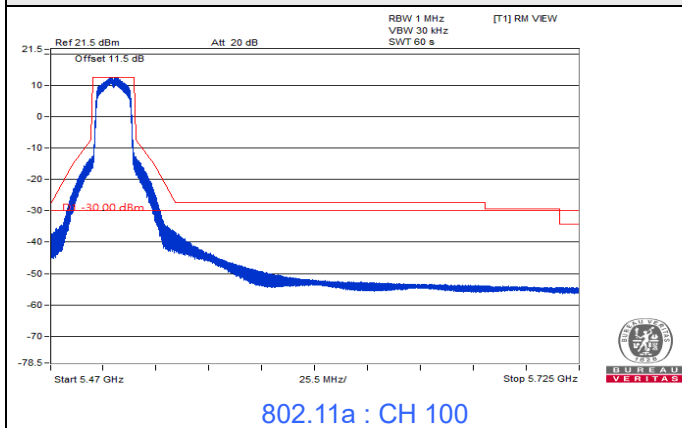


802.11a : CH 100



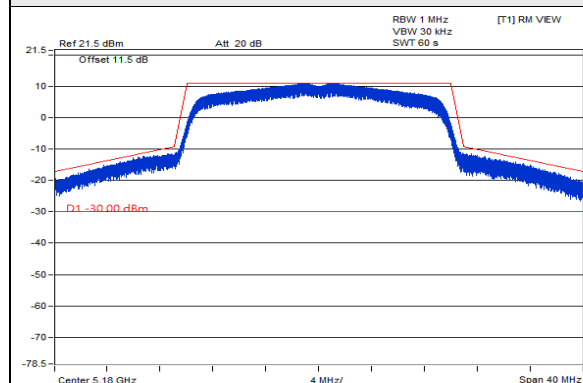
802.11a : CH 100

Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands

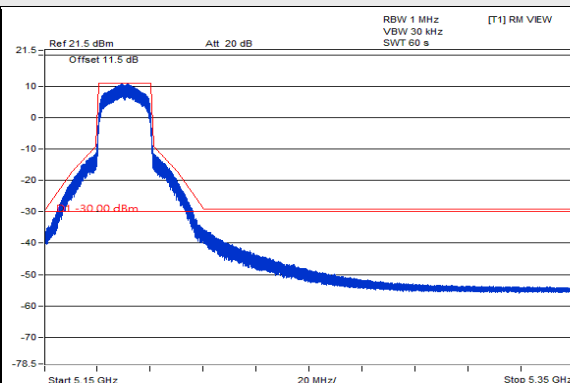


802.11be (EHT20)

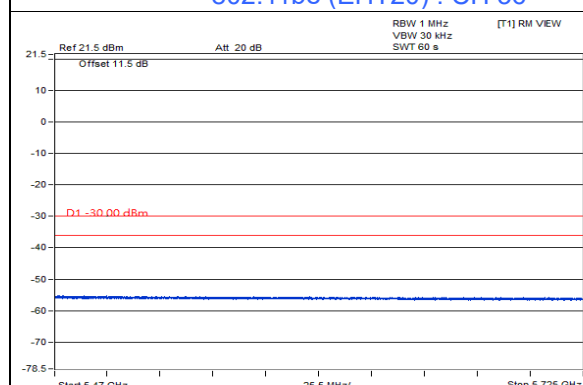
Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



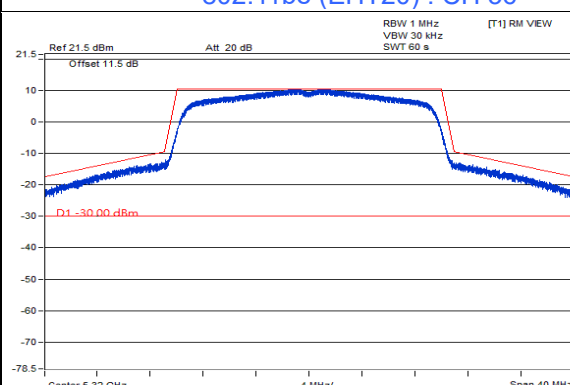
802.11be (EHT20) : CH 36



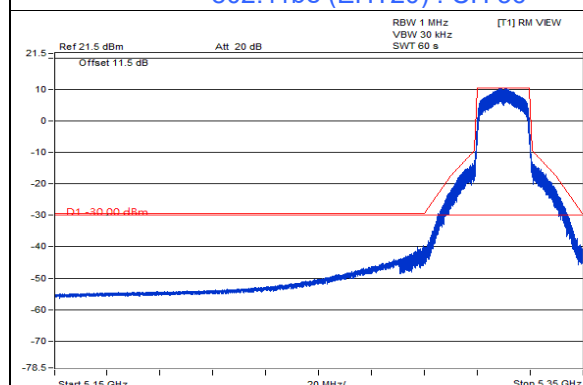
802.11be (EHT20) : CH 36



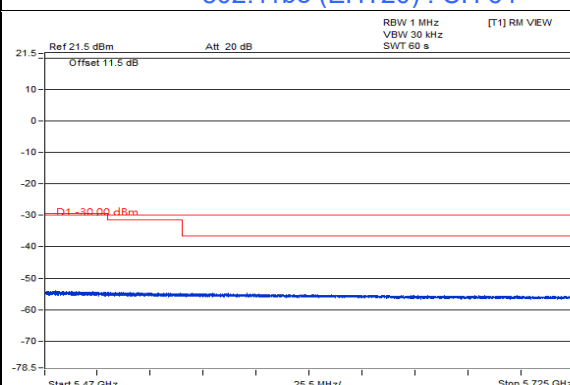
802.11be (EHT20) : CH 36



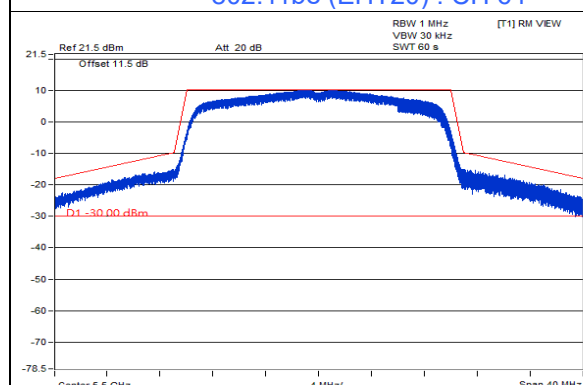
802.11be (EHT20) : CH 64



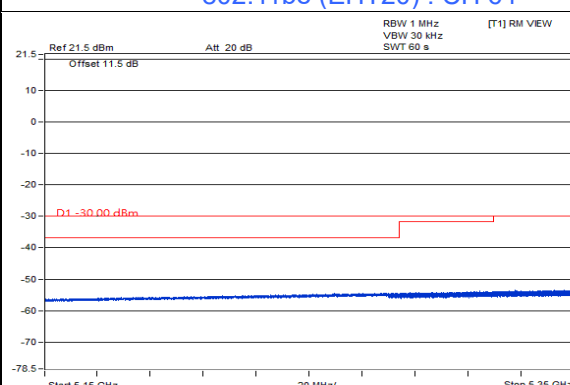
802.11be (EHT20) : CH 64



802.11be (EHT20) : CH 64

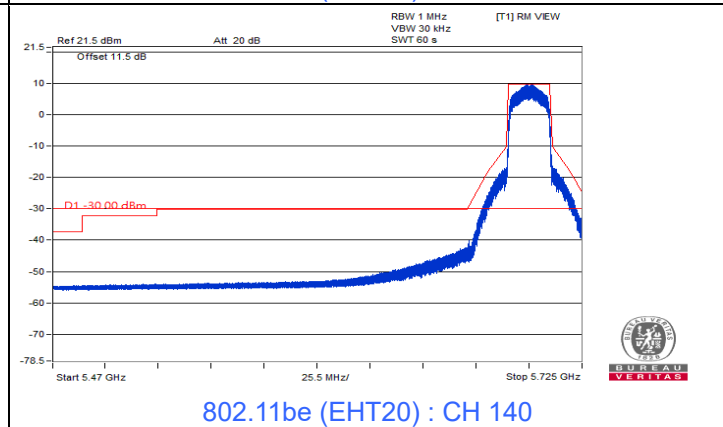
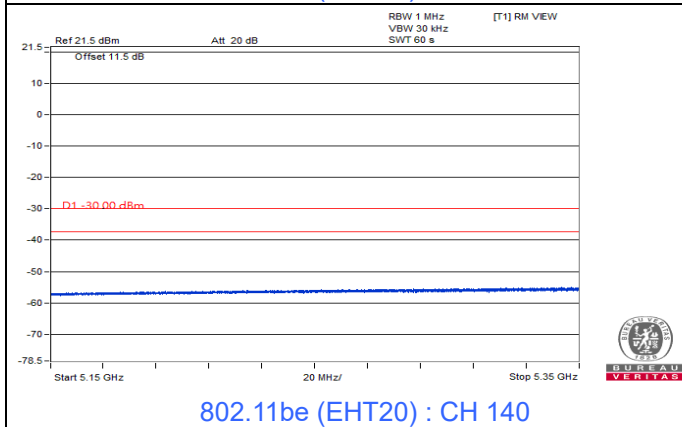
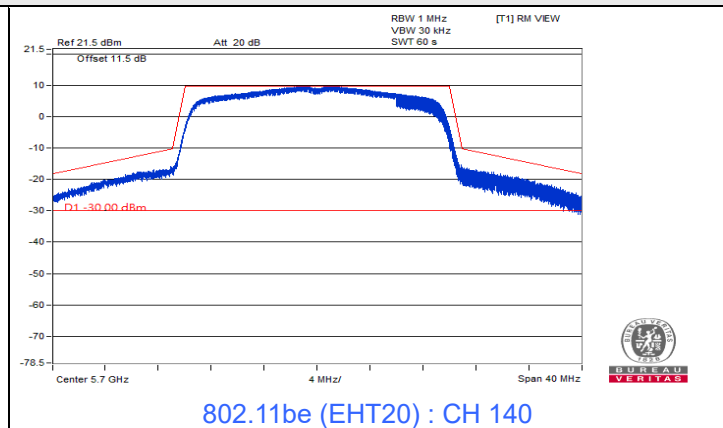
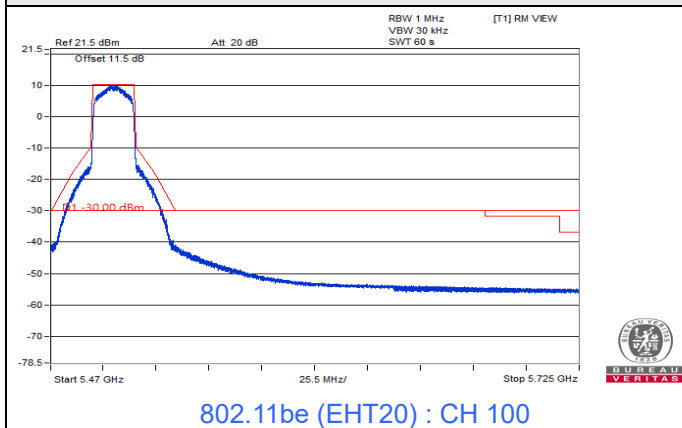


802.11be (EHT20) : CH 100



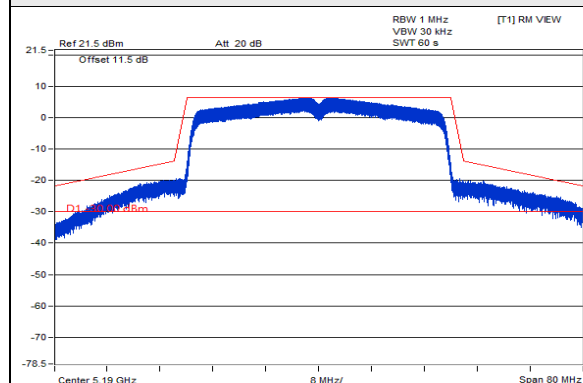
802.11be (EHT20) : CH 100

Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands

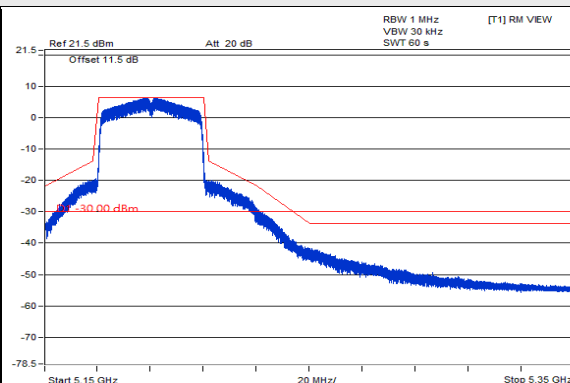


802.11be (EHT40)

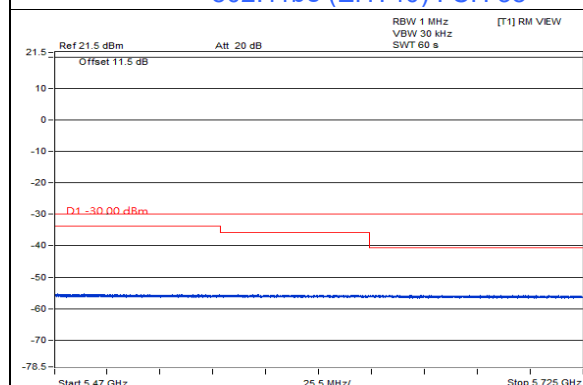
Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



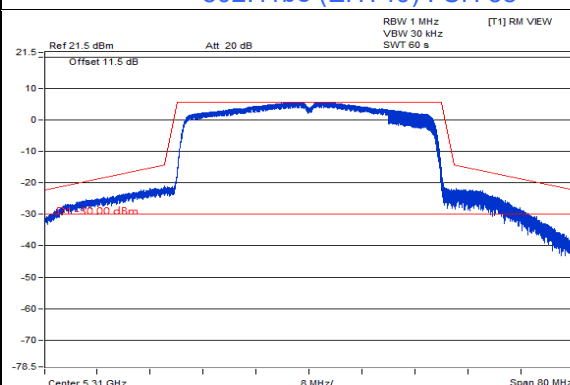
802.11be (EHT40) : CH 38



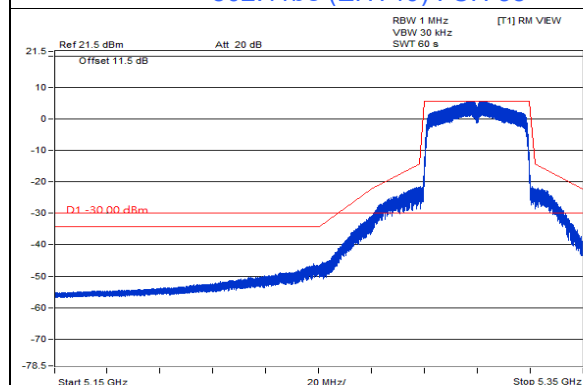
802.11be (EHT40) : CH 38



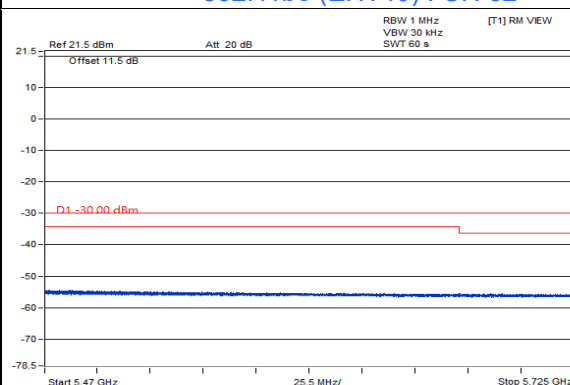
802.11be (EHT40) : CH 38



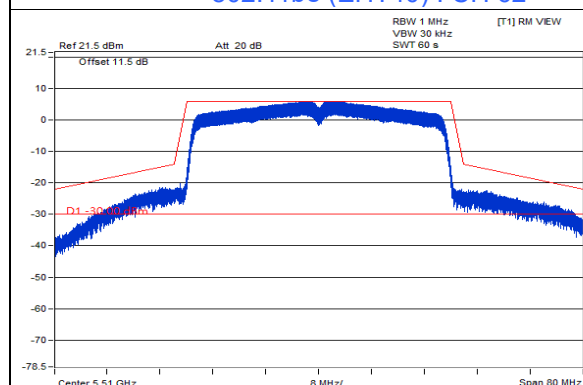
802.11be (EHT40) : CH 62



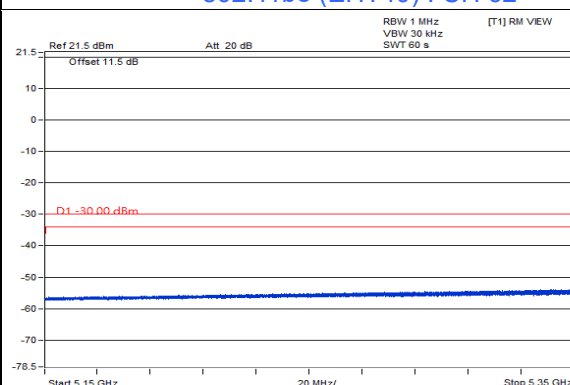
802.11be (EHT40) : CH 62



802.11be (EHT40) : CH 62

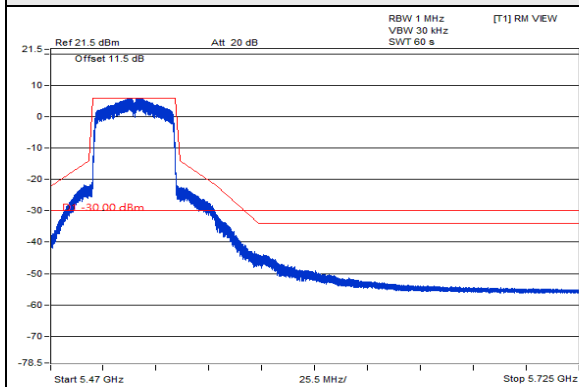


802.11be (EHT40) : CH 102

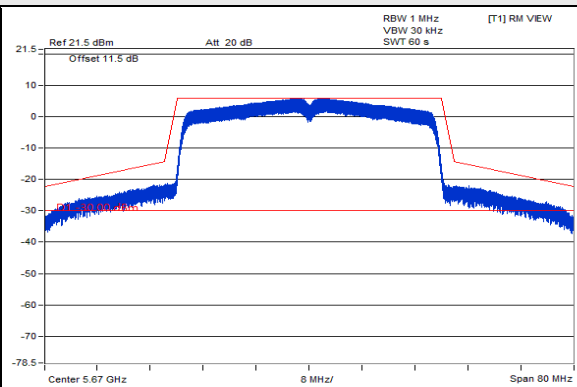


802.11be (EHT40) : CH 102

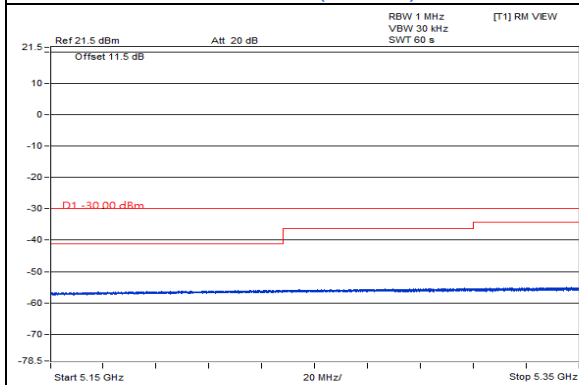
Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



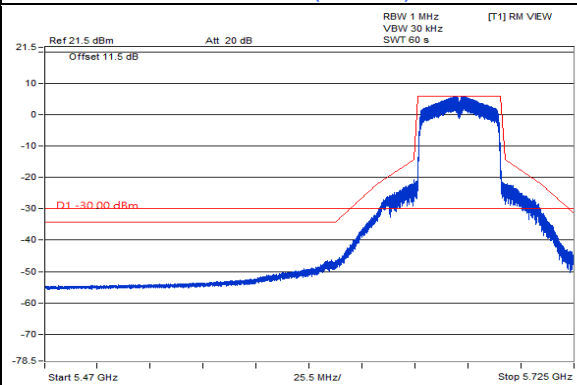
802.11be (EHT40) : CH 102



802.11be (EHT40) : CH 134



802.11be (EHT40) : CH 134

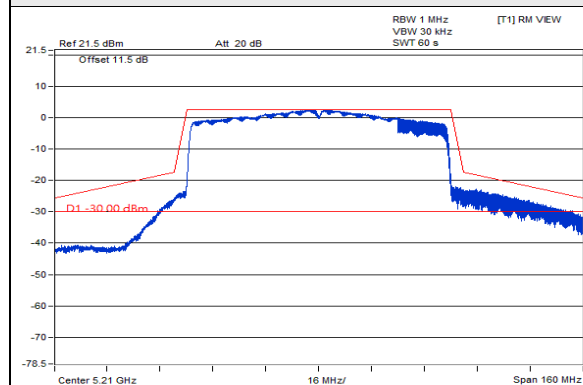


802.11be (EHT40) : CH 134

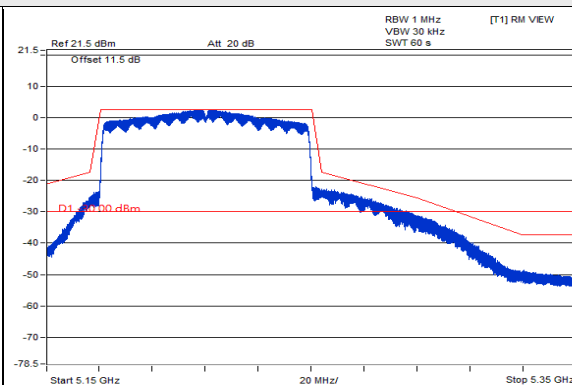


802.11be (EHT80)

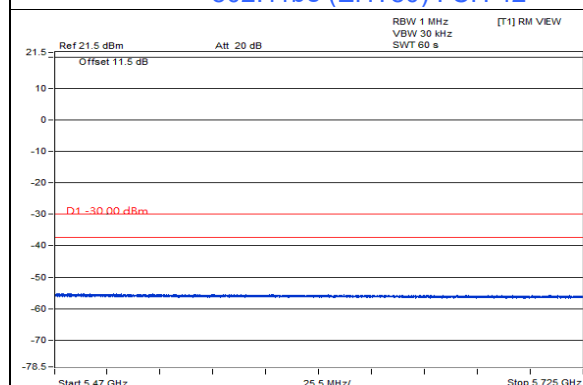
Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



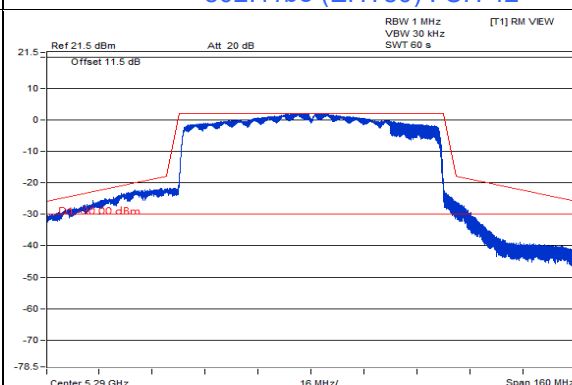
802.11be (EHT80) : CH 42



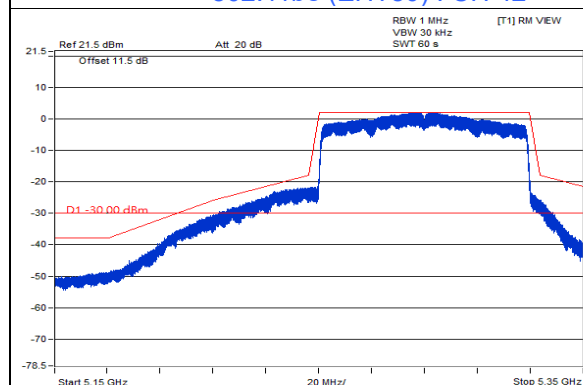
802.11be (EHT80) : CH 42



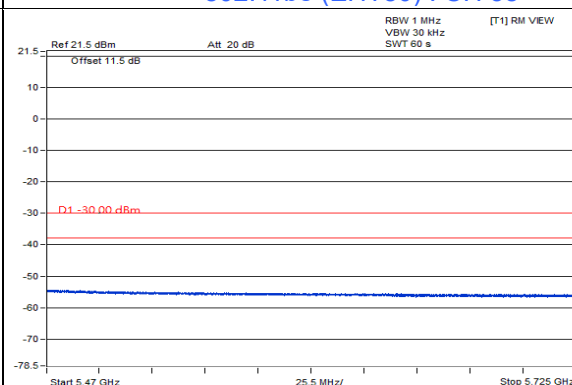
802.11be (EHT80) : CH 42



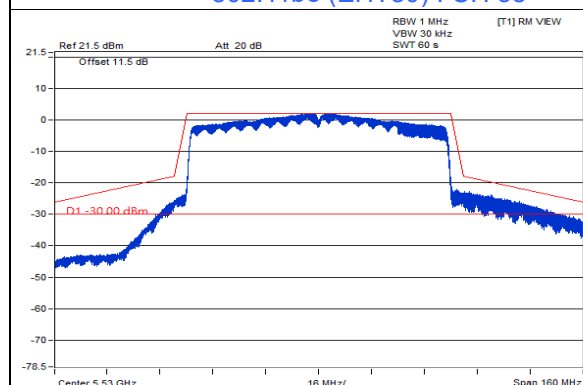
802.11be (EHT80) : CH 58



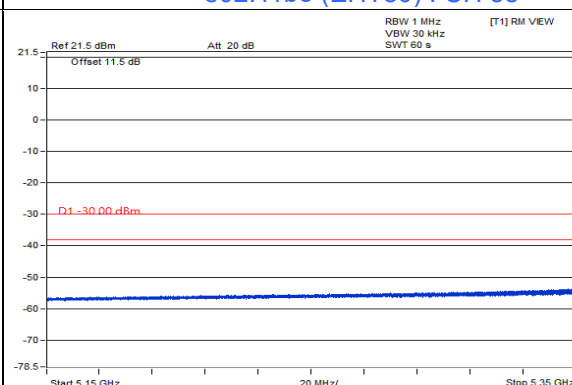
802.11be (EHT80) : CH 58



802.11be (EHT80) : CH 58

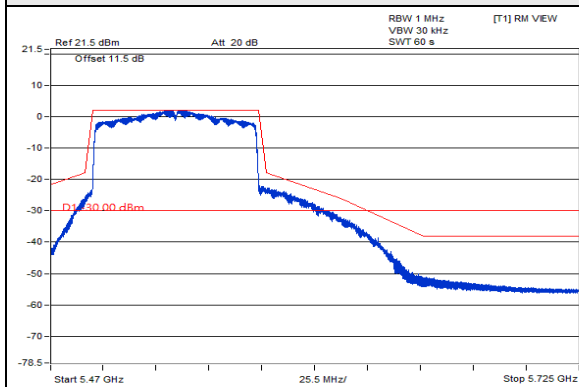


802.11be (EHT80) : CH 106

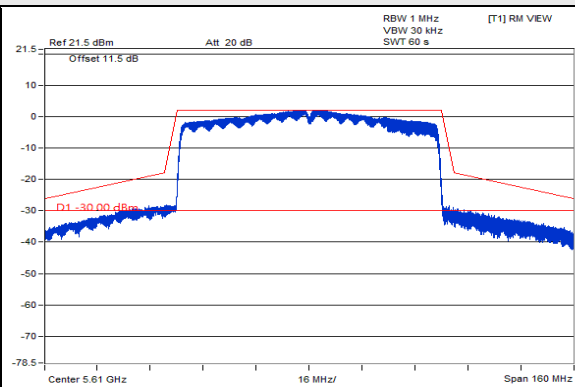


802.11be (EHT80) : CH 106

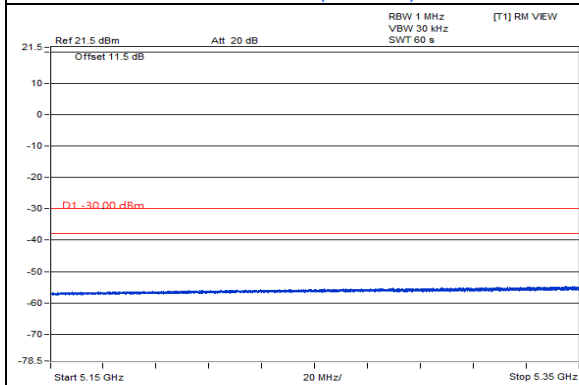
Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



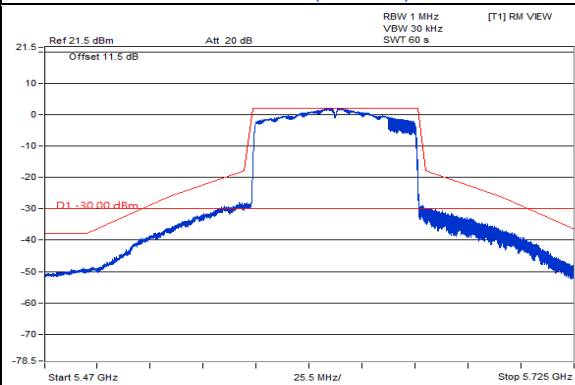
802.11be (EHT80) : CH 106



802.11be (EHT80) : CH 122



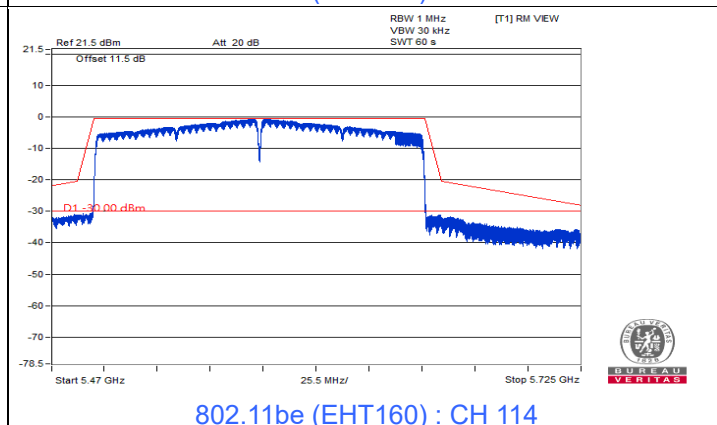
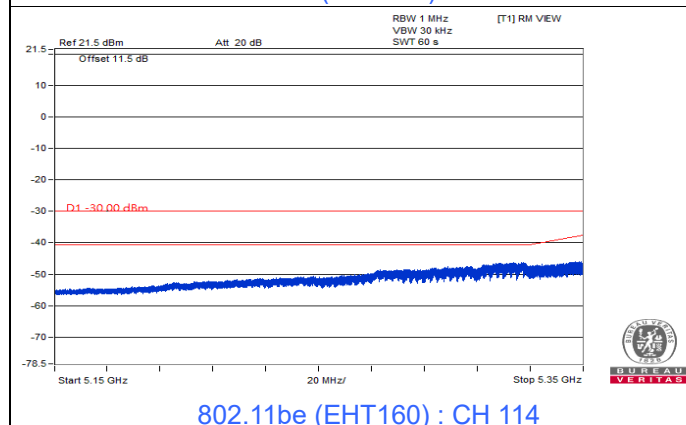
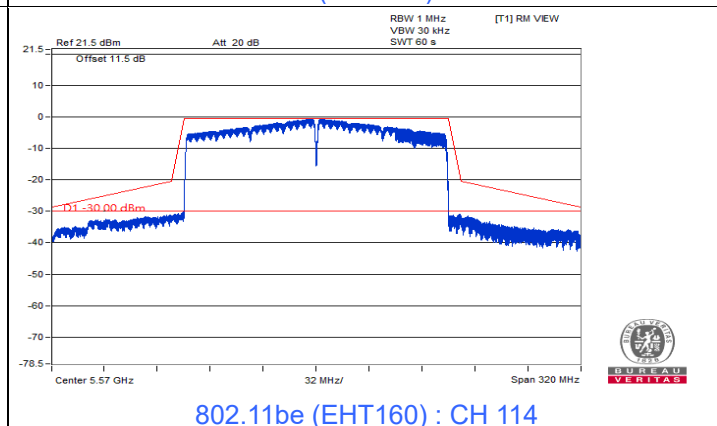
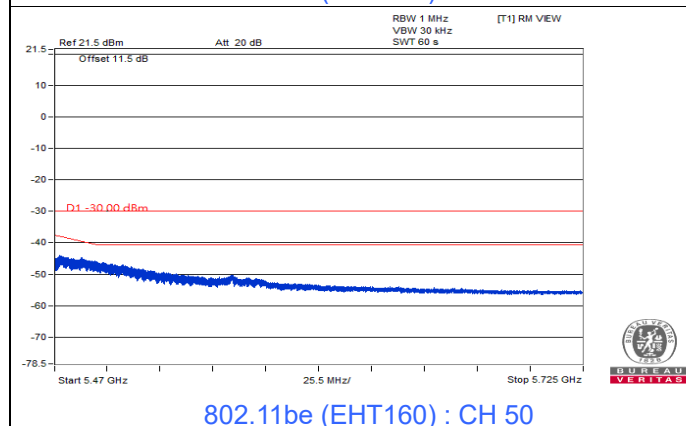
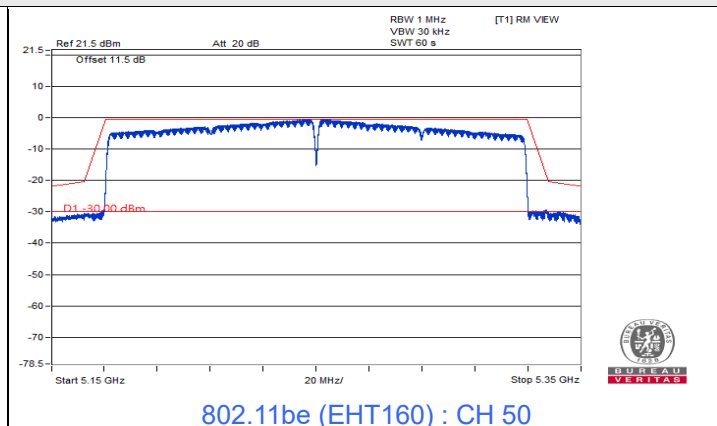
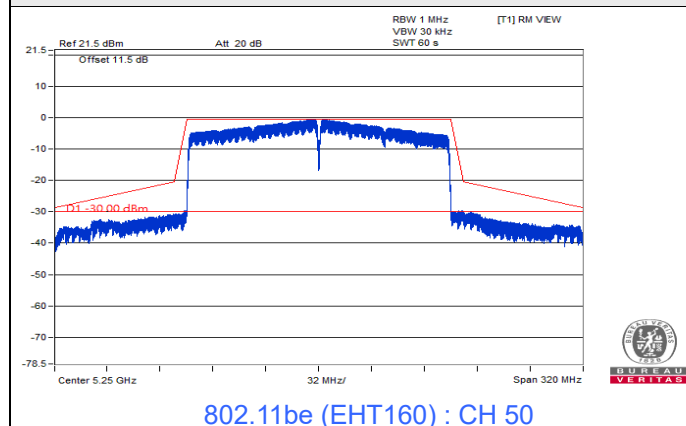
802.11be (EHT80) : CH 122



802.11be (EHT80) : CH 122

802.11be (EHT160)

Spectrum plots of the unwanted emissions within the 5 GHz RLAN bands



7.9 Receiver Spurious Emissions up to 1 GHz

Test Mode A2

Spurious Emission Frequency Range	30 MHz ~ 1 GHz	Operating Channel	64
Input Power	230 Vac, 50 Hz	Environmental Conditions	22°C, 74% RH
Tested By	Vanness Huang		

Spurious Emission Level				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
53.73	H	-64.45	-57.00	-7.45
91.47	V	-66.86	-57.00	-9.86
144.95	V	-69.14	-57.00	-12.14
161.21	H	-68.00	-57.00	-11.00
257.08	H	-74.00	-57.00	-17.00
390.72	V	-74.08	-57.00	-17.08
432.53	H	-61.29	-57.00	-4.29
523.42	V	-72.57	-57.00	-15.57
588.67	H	-69.68	-57.00	-12.68
599.44	V	-69.99	-57.00	-12.99
845.73	H	-66.87	-57.00	-9.87
850.23	V	-67.50	-57.00	-10.50

7.10 Receiver Spurious Emissions above 1 GHz

Test Mode A2

Spurious Emission Frequency Range	1 GHz ~ 26 GHz	Operating Channel	64
Input Power	230 Vac, 50 Hz	Environmental Conditions	22°C, 74% RH
Tested By	Vanness Huang		

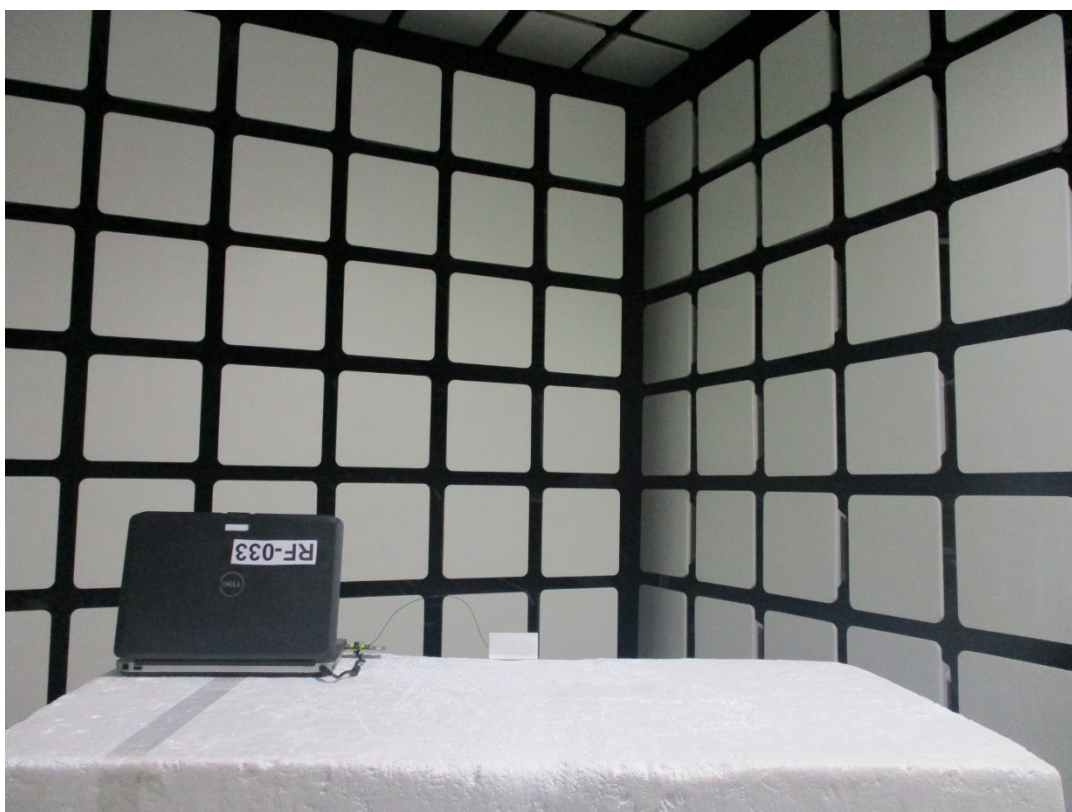
Spurious Emission Level					
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
64	10640.00	H	-49.48	-47.00	-2.48
	10640.00	V	-49.82	-47.00	-2.82

Spurious Emission Frequency Range	1 GHz ~ 26 GHz	Operating Channel	140
Input Power	230 Vac, 50 Hz	Environmental Conditions	22°C, 74% RH
Tested By	Vanness Huang		

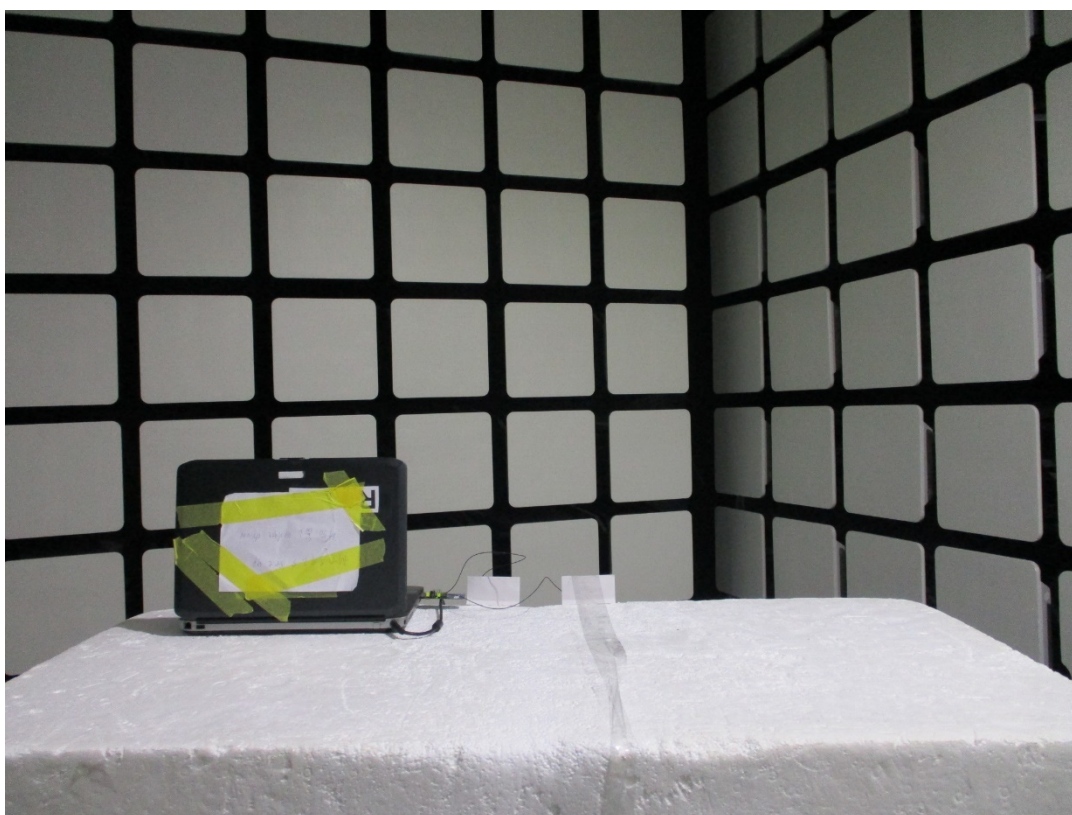
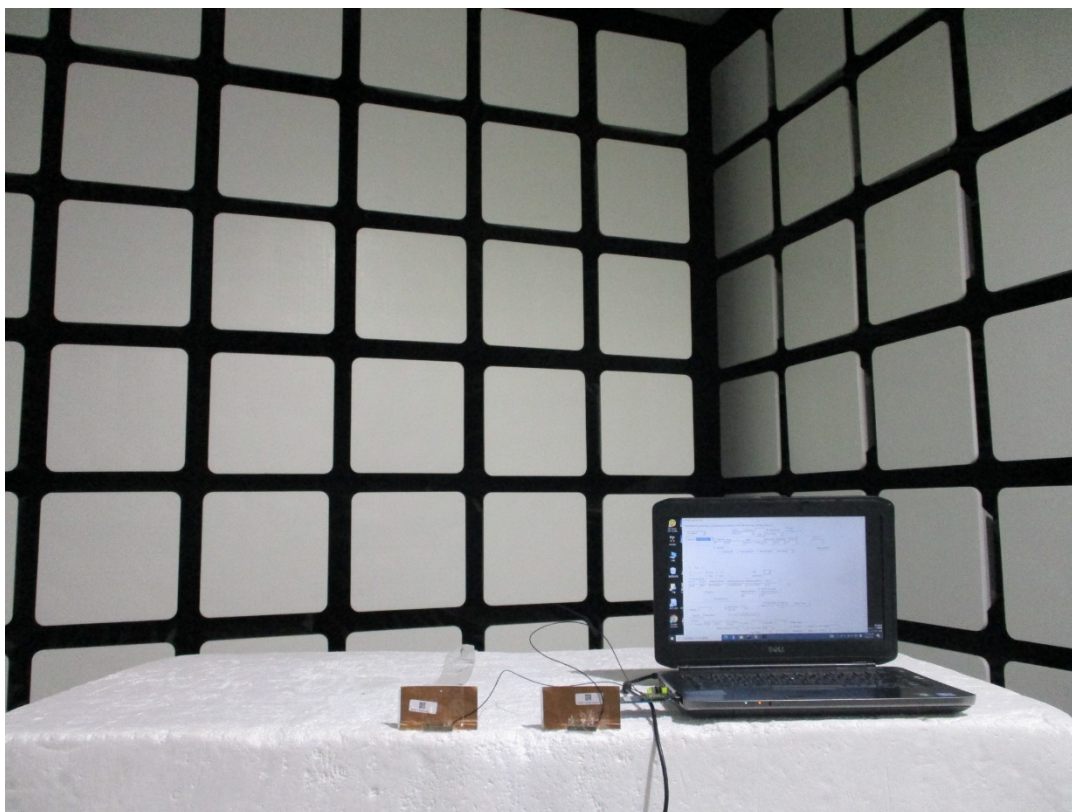
Spurious Emission Level					
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
140	11400.00	H	-48.19	-47.00	-1.19
	11400.00	V	-48.43	-47.00	-1.43

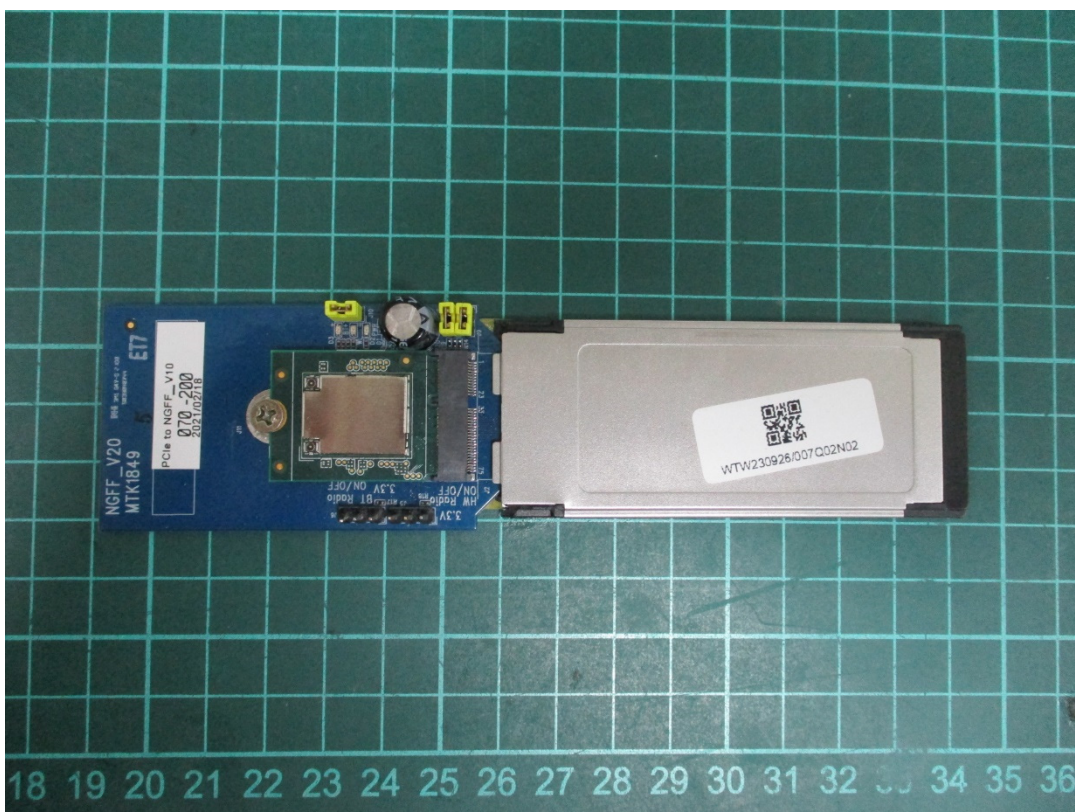
8 Pictures of Test Arrangements

1TX



2TX





Annex A-Conducted Output Power

Test Mode B1 (1TX)

Mode	Channel	Frequency (MHz)	Conducted Average (dBm)
11a	36	5180	23.98
	64	5320	24.01
	100	5500	23.49
	140	5700	23.52
802.11ax (HE20)	36	5180	23.70
	64	5320	23.77
	100	5500	23.47
	140	5700	23.46
802.11ax (HE40)	38	5190	22.54
	62	5310	22.50
	102	5510	22.63
	134	5670	22.61
802.11ax (HE80)	42	5210	22.26
	58	5290	22.28
	106	5530	22.43
	122	5610	22.21
802.11ax (HE160)	50	5250	21.23
	114	5570	20.81
802.11be (EHT20)	36	5180	23.76
	64	5320	23.81
	100	5500	23.48
	140	5700	23.52
802.11be (EHT40)	38	5190	22.59
	62	5310	22.54
	102	5510	22.67
	134	5670	22.64
802.11be (EHT80)	42	5210	22.31
	58	5290	22.32
	106	5530	22.45
	122	5610	22.24
802.11be (EHT160)	50	5250	21.29
	114	5570	20.86
802.11be (EHT20) 26-tone RU	36	5180	22.53
	64	5320	22.50
	100	5500	22.49
	140	5700	22.47
802.11be (EHT20) 52-tone RU	36	5180	23.73
	64	5320	23.77
	100	5500	23.47
	140	5700	23.48
802.11be (EHT20) 106-tone RU	36	5180	23.75
	64	5320	23.77
	100	5500	23.47
	140	5700	23.48

Mode	Channel	Frequency (MHz)	Conducted Average (dBm)
802.11be (EHT20) 52+26-tone MRU	36	5180	23.73
	64	5320	23.76
	100	5500	23.43
	140	5700	23.48
802.11be (EHT20) 106+26-tone MRU	36	5180	23.73
	64	5320	23.75
	100	5500	23.46
	140	5700	23.44
802.11be (EHT80) 484+242-tone MRU	42	5210	22.16
	58	5290	22.23
	106	5530	22.25
	122	5610	22.14
802.11be (EHT160) 996+484-tone MRU	50	5250	21.16
	114	5570	20.76
802.11be (EHT160) 996+484+242-tone MRU	50	5250	21.09
	114	5570	20.73

Test Mode B2 (2TX)

Mode	Channel	Frequency (MHz)	Conducted Average (dBm)		
			Chain 0	Chain 1	Total
11a	36	5180	23.62	23.93	26.79
	64	5320	23.64	23.94	26.80
	100	5500	22.97	23.40	26.20
	140	5700	22.94	23.53	26.26
802.11ax (HE20)	36	5180	23.37	23.71	26.55
	64	5320	23.56	23.74	26.66
	100	5500	23.12	23.37	26.26
	140	5700	23.18	23.43	26.32
802.11ax (HE40)	38	5190	21.79	22.48	25.16
	62	5310	21.82	22.43	25.15
	102	5510	21.76	22.23	25.01
	134	5670	21.81	22.31	25.08
802.11ax (HE80)	42	5210	21.03	21.65	24.36
	58	5290	21.26	21.68	24.49
	106	5530	21.23	21.80	24.53
	122	5610	21.07	21.61	24.36
802.11ax (HE160)	50	5250	21.16	21.27	24.23
	114	5570	21.20	21.28	24.25
802.11be (EHT20)	36	5180	23.43	23.73	26.59
	64	5320	23.61	23.78	26.71
	100	5500	23.16	23.46	26.32
	140	5700	23.25	23.48	26.38
802.11be (EHT40)	38	5190	21.82	22.51	25.19
	62	5310	21.84	22.47	25.18
	102	5510	21.80	22.26	25.05
	134	5670	21.83	22.34	25.10
802.11be (EHT80)	42	5210	21.10	21.71	24.43
	58	5290	21.28	21.75	24.53
	106	5530	21.31	21.84	24.59
	122	5610	21.12	21.67	24.41
802.11be (EHT160)	50	5250	21.19	21.29	24.25
	114	5570	21.22	21.31	24.28
802.11be (EHT20) 26-tone RU	36	5180	19.37	20.07	22.74
	64	5320	19.35	20.06	22.73
	100	5500	19.28	19.81	22.56
	140	5700	19.18	19.96	22.60
802.11be (EHT20) 52-tone RU	36	5180	22.36	23.02	25.71
	64	5320	22.13	22.84	25.51
	100	5500	22.05	22.32	25.20
	140	5700	22.03	22.67	25.37
802.11be (EHT20) 106-tone RU	36	5180	23.38	23.67	26.54
	64	5320	23.56	23.72	26.65
	100	5500	23.13	23.37	26.26
	140	5700	23.19	23.45	26.33

Mode	Channel	Frequency (MHz)	Conducted Average (dBm)		
			Chain 0	Chain 1	Total
802.11be (EHT20) 52+26-tone MRU	36	5180	22.89	23.23	26.07
	64	5320	23.05	23.24	26.16
	100	5500	22.64	22.91	25.79
	140	5700	22.75	22.95	25.86
802.11be (EHT20) 106+26-tone MRU	36	5180	23.38	23.70	26.55
	64	5320	23.57	23.73	26.66
	100	5500	23.12	23.45	26.30
	140	5700	23.23	23.47	26.36
802.11be (EHT80) 484+242-tone MRU	42	5210	20.97	21.67	24.34
	58	5290	21.03	21.73	24.40
	106	5530	21.05	21.78	24.44
	122	5610	21.01	21.67	24.36
802.11be (EHT160) 996+484-tone MRU	50	5250	21.14	21.26	24.21
	114	5570	21.18	21.27	24.24
802.11be (EHT160) 996+484+242-tone MRU	50	5250	21.15	21.25	24.21
	114	5570	21.17	21.27	24.23

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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