

FCC Test Report

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FCC ID: RAS-MT7902

Test Model: MT7902

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Test Date: 2021/11/10 ~ 2022/1/16

Issued Date: 2022/1/28

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**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P21100969-3	Original release.	2022/1/28

1 Certificate of Conformity

Product: 1TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7902

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: 2021/11/10 ~ 2022/1/16

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10: 2013

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 EMC characteristics under the conditions specified in this report.

Prepared by : Vivian Huang , **Date:** 2022/1/28
Vivian Huang / Specialist

Approved by : Clark Lin , **Date:** 2022/1/28
Clark Lin / Technical Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(8)	AC Power Conducted Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -13.34dB at 0.52891MHz.
15.407(b)(5)(8)	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -0.3dB at 5925.00MHz and 7125.00MHz.
15.407(b)(6)	In-Band Emission (Mask)	PASS	Meet the requirement of limit.
15.407(a)(4/5/6/7/8)	Max Average Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(10)	Emission Bandwidth Measurement	PASS	Meet the requirement of limit.
15.407(a)(4/5/6/7/8)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407 (d)(6)	Contention-based Protocol.	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.407(a)(7)(8)	Dual Client- Proper Power Adjustment	N/A	Device associates with low power indoor AP only.
15.407(d)	Operational restrictions for 6 GHz U-NII devices	PASS	Declaration by applicant
15.203	Antenna Requirement	PASS	Antenna connector is ipex(MHF) not a standard connector.

Note:

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 CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (\pm)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.9 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.1 dB
	30MHz ~ 1GHz	5.5 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.1 dB
	18GHz ~ 40GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	1TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7902
Status of EUT	Engineering sample
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11ax: up to 1201.0 Mbps
Operating Frequency	5.955 ~ 6.415GHz, 6.435 ~ 6.525GHz, 6.525 ~ 6.875GHz, 6.875 ~ 7.115GHz
Number of Channel	802.11a/ax (HE20): 59 802.11ax (HE40): 29 802.11ax (HE80): 14 802.11ax (HE160): 7
Output Power	5.955 ~ 6.415GHz: 35.481 mW (EIRP: 20.26 dBm / 106.17 mW) 6.435 ~ 6.525GHz: 35.645 mW (EIRP: 19.81 dBm / 95.719 mW) 6.525 ~ 6.855GHz: 36.983 mW (EIRP: 20.29 dBm / 106.905 mW) 6.875 ~ 7.115GHz: 36.813 mW (EIRP: 19.75 dBm / 94.406 mW)
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

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

Condition	Technology	
1	WLAN (5GHz or 5.9GHz)	Bluetooth
2	WLAN (6GHz)	Bluetooth

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

3. The EUT have four HW SKU as following table:

SKU	Sample	Difference
1	Diversity version A	1. Version A & B are also same PCB with layout change. 2. The difference is adding/removing MOSFET components in GPIO bus for function optional.
2	Diversity version B	
3	1 TX only version A	
4	1 TX only version B	

Note: From the above HW SKUs, the worse case was found in **SKU 1**. Therefore only the test data of the SKU was recorded in this report.

4. The antennas provided to the EUT, please refer to the following table:

Antenna Set No	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0	PSA	RFMTA340718EMLB302	3.18	2.4~2.4835	PIFA	ipex(MHF)	200
				4.92	5.15~5.895			
	Chain1	PSA	RFMTA340718EMLB302	3.18	2.4~2.4835	PIFA	ipex(MHF)	200
				4.92	5.15~5.895			
2	Chain0	PSA	RFMTA311020EMMB301	1.71	2.4~2.4835	PIFA	ipex(MHF)	200
				4.82	5.15~5.895			
				4.76	5.925~6.425			
				4.29	6.425~6.525			
				4.61	6.525~6.875			
	Chain1	PSA	RFMTA311020EMMB301	4.09	6.875~7.125	PIFA	ipex(MHF)	200
				1.71	2.4~2.4835			
				4.82	5.15~5.895			
				4.76	5.925~6.425			
				4.29	6.425~6.525			
3	Chain0	PSA	RFMTA421230IMMB701	-13.92	5.925~6.425	PIFA	IPEX	300
				-13.91	6.425~6.525			
				-13.91	6.525~6.875			
				-14.46	6.875~7.125			
	Chain1	PSA	RFMTA421230IMMB701	-13.92	5.925~6.425	PIFA	IPEX	300
				-13.91	6.425~6.525			
				-13.91	6.525~6.875			
				-14.46	6.875~7.125			

Note:

1. From the above transmission chains, the worse case was found in transmission on Chain 0 for 1TX diversity sample. Therefore only the test data of the mode was recorded in this report.
2. The Bluetooth technology will fix transmission on Chain 0.
3. Max. gain was selected for the final test.

5. The EUT incorporates a SISO function:

6GHz Band					
MODULATION MODE	TX & RX CONFIGURATION		Spatial Stream	SISO mode	Beamforming mode
802.11a	1TX Diversity or 1TX	1RX	NSS = 1	Support	Not Support
802.11ax (HE20)	1TX Diversity or 1TX	1RX	NSS = 1	Support	Not Support
802.11ax (HE40)	1TX Diversity or 1TX	1RX	NSS = 1	Support	Not Support
802.11ax (HE80)	1TX Diversity or 1TX	1RX	NSS = 1	Support	Not Support
802.11ax (HE160)	1TX Diversity or 1TX	1RX	NSS = 1	Support	Not Support
802.11ax (RU26/52/106/242/484/996/ 1992)	1TX Diversity or 1TX	1RX	NSS = 1	Support	Not Support

Note: The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz), 802.11ac mode for 20MHz (40MHz, 80MHz) and 802.11ax mode for 20MHz (40MHz, 80MHz), therefore the manufacturer will control the power for 802.11n mode as same as the 802.11ac mode and ax mode or more lower than it and investigated worst case to representative mode in test report. (Final test mode refer to section 3.2.1)

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.
7. 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.

3.2 Description of Test Modes

U-NII-5 (5925 ~ 6425MHz)

24 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5955 MHz	5	5975 MHz	9	5955 MHz	13	6015 MHz
17	6035 MHz	21	6055 MHz	25	6075 MHz	29	6095 MHz
33	6115 MHz	37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz	61	6255 MHz
65	6275 MHz	69	6295 MHz	73	6315 MHz	77	6335 MHz
81	6355 MHz	85	6375 MHz	89	6395 MHz	93	6415MHz

12 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz	27	6085 MHz
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285 MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz

6 channels are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz	55	6225 MHz
71	6305 MHz	87	6385 MHz				

3 channels are provided for 802.11ax (HE160):

Channel	Frequency	Channel	Frequency	Channel	Frequency
15	6025 MHz	47	6185 MHz	79	6345 MHz

U-NII-6 (6425 ~ 6525MHz)

5 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
97	6435 MHz	101	6455 MHz	105	6475 MHz	109	6495 MHz
113	6515 MHz						

3 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
99	6445 MHz	107	6485 MHz	*115	6525 MHz

1 channels is provided for 802.11ax (HE80):

Channel	Frequency
103	6465 MHz

1 channel is provided for 802.11ax (HE160):

Channel	Frequency
*111	6505 MHz

U-NII-7 (6525 ~ 6875MHz)

18 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz	*185	6875 MHz				

8 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
123	6565 MHz	131	6605 MHz	139	6645 MHz	147	6685 MHz
155	6725 MHz	163	6765 MHz	171	6805 MHz	179	6845 MHz

5 channels are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
*119	6545 MHz	135	6625 MHz	151	6705 MHz	167	6785 MHz
*183	6865 MHz						

2 channels are provided for 802.11ax (HE160):

Channel	Frequency	Channel	Frequency
143	6665 MHz	*175	6825 MHz

U-NII-8 (6875 ~ 7125MHz)

12 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
189	6895 MHz	193	6915 MHz	197	6935 MHz	201	6955 MHz
205	6975 MHz	209	6995 MHz	213	7015 MHz	217	7035 MHz
221	7055 MHz	225	7075 MHz	229	7095 MHz	233	7115 MHz

6 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
*187	6885 MHz	195	6925 MHz	203	6965 MHz
211	7005 MHz	219	7045 MHz	227	7085 MHz

2 channels is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
199	6945 MHz	215	7025 MHz

1 channel is provided for 802.11ax (HE160):

Channel	Frequency
207	6985 MHz

Note: * mean this's straddle channel.

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To						Description
	RE \geq 1G	RE<1G	IBE	PLC	CBP	APCM	
-	√	√	√	√	√	√	-

Where **RE \geq 1G**: Radiated Emission above 1GHz
RE<1G: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission
APCM: Antenna Port Conducted Measurement
IBE: In-Band Emission (MASK)
CBP:Contention Based Protocol

Note: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane

Radiated Emission Measurement (Above 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6525-6855	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	213, 233	OFDMA	BPSK	MCS0
802.11ax (HE20)	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6525-6855	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	213, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	5955-6415	3 to 91	3, 43, 91	OFDMA	BPSK	MCS0
	6435-6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6525-6855	115 to 179	123, 155, 179	OFDMA	BPSK	MCS0
	6875-7115	187 to 227	187, 211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	5955-6415	7 to 87	7, 39, 87	OFDMA	BPSK	MCS0
	6435-6525	103	103	OFDMA	BPSK	MCS0
	6525-6855	119 to 183	119, 135, 151,167, 183	OFDMA	BPSK	MCS0
	6875-7115	199 to 215	199, 215	OFDMA	BPSK	MCS0
802.11ax (HE160)	5955-6415	15 to 79	15, 47, 79	OFDMA	BPSK	MCS0
	6435-6525	111	111	OFDMA	BPSK	MCS0
	6525-6855	143 to 175	143, 175	OFDMA	BPSK	MCS0
	6875-7115	207	207	OFDMA	BPSK	MCS0

Preamble (MHz)	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration		
							RU26	RU52	RU106
20	5955-6415	1 to 93	1, 93	OFDMA	BPSK	MCS0	26/0 26/8	-	106/53 106/54
	6435-6525	97 to 113	97	OFDMA	BPSK	MCS0	26/0	-	106/53
	6525-6855	117 to 181	117, 181	OFDMA	BPSK	MCS0	26/0 26/8	-	106/53 106/54
	6875-7115	185 to 233	233	OFDMA	BPSK	MCS0	26/8	52/40	106/54

Radiated Emission Measurement (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE160)	5955-6415	15 to 79	143	OFDMA	BPSK	MCS0
	6435-6525	111				
	6525-6855	143 to 175				
	6875-7115	207				

In-Band Emission (MASK) Measurement:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6525-6855	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	213, 233	OFDMA	BPSK	MCS0
802.11ax (HE20)	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6525-6855	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	213, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	5955-6415	3 to 91	3, 43, 91	OFDMA	BPSK	MCS0
	6435-6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6525-6855	115 to 179	123, 155, 179	OFDMA	BPSK	MCS0
	6875-7115	187 to 227	187, 211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	5955-6415	7 to 87	7, 39, 87	OFDMA	BPSK	MCS0
	6435-6525	103	103	OFDMA	BPSK	MCS0
	6525-6855	119 to 183	119, 151, 167, 183	OFDMA	BPSK	MCS0
	6875-7115	199 to 215	199, 215	OFDMA	BPSK	MCS0
802.11ax (HE160)	5955-6415	15 to 79	15, 47, 79	OFDMA	BPSK	MCS0
	6435-6525	111	111	OFDMA	BPSK	MCS0
	6525-6855	143 to 175	143,175	OFDMA	BPSK	MCS0
	6875-7115	207	207	OFDMA	BPSK	MCS0

Preamble (MHz)	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration		
							RU26	RU52	RU106
20	5955-6415	1 to 93	1, 93	OFDMA	BPSK	MCS0	26/0 26/8	-	106/53 106/54
	6435-6525	97 to 113	97	OFDMA	BPSK	MCS0	26/0	-	106/53
	6525-6855	117 to 181	117, 181	OFDMA	BPSK	MCS0	26/0 26/8	-	106/53 106/54
	6875-7115	185 to 233	233	OFDMA	BPSK	MCS0	26/8	52/40	106/54

Power Line Conducted Emission Measurement:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE160)	5955-6415	15 to 79	143	OFDMA	BPSK	MCS0
	6435-6525	111				
	6525-6855	143 to 175				
	6875-7115	207				

Antenna Port Conducted Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6525-6855	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	213, 233	OFDMA	BPSK	MCS0
802.11ax (HE20)	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6525-6855	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	213, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	5955-6415	3 to 91	3, 43, 91	OFDMA	BPSK	MCS0
	6435-6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6525-6855	115 to 179	123, 155, 179	OFDMA	BPSK	MCS0
	6875-7115	187 to 227	187, 211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	5955-6415	7 to 87	7, 39, 87	OFDMA	BPSK	MCS0
	6435-6525	103	103	OFDMA	BPSK	MCS0
	6525-6855	119 to 183	119, 151, 167, 183	OFDMA	BPSK	MCS0
	6875-7115	199 to 215	199, 215	OFDMA	BPSK	MCS0
802.11ax (HE160)	5955-6415	15 to 79	15,47,79	OFDMA	BPSK	MCS0
	6435-6525	111	111	OFDMA	BPSK	MCS0
	6525-6855	143 to 175	143, 175	OFDMA	BPSK	MCS0
	6875-7115	207	207	OFDMA	BPSK	MCS0

Preamble (MHz)	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration		
							RU26	RU52	RU106
20	5955-6415	1 to 93	1, 93	OFDMA	BPSK	MCS0	26/0 26/8	-	106/53 106/54
	6435-6525	97 to 113	97	OFDMA	BPSK	MCS0	26/0	-	106/53
	6525-6855	117 to 181	117, 181	OFDMA	BPSK	MCS0	26/0 26/8	-	106/53 106/54
	6875-7115	185 to 233	233	OFDMA	BPSK	MCS0	26/8	52/40	106/54

Contention Based Protocol Measurement:

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

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE20)	5955-6415	1 to 93	1	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	97	OFDMA	BPSK	MCS0
	6525-6855	117 to 185	129	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	193	OFDMA	BPSK	MCS0
802.11ax (HE160)	5955-6415	15 to 79	15	OFDMA	BPSK	MCS0
	6435-6525	111	111	OFDMA	BPSK	MCS0
	6525-6855	143 to 175	143	OFDMA	BPSK	MCS0
	6875-7115	207	207	OFDMA	BPSK	MCS0

Test Condition:

Applicable To	Environmental Conditions	Input Power (System)	Tested By
RE \geq 1G	25deg. C, 65%RH	120Vac, 60Hz	Carter Lin
RE<1G	23deg. C, 66%RH	120Vac, 60Hz	Carter Lin
PLC	25deg. C, 75%RH	120Vac, 60Hz	Sampson Chen
APCM	25deg. C, 60%RH	120Vac, 60Hz	Eric Peng

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98 %, duty factor is required

802.11a: Duty cycle = 5.481 ms/5.977 ms= 0.917, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.38 \text{ dB}$

802.11ax (HE20): Duty cycle = 3.877 ms/4.383 ms= 0.885, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.53 \text{ dB}$

802.11ax (HE40): Duty cycle = 3.878 ms/4.53 ms= 0.856, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.67 \text{ dB}$

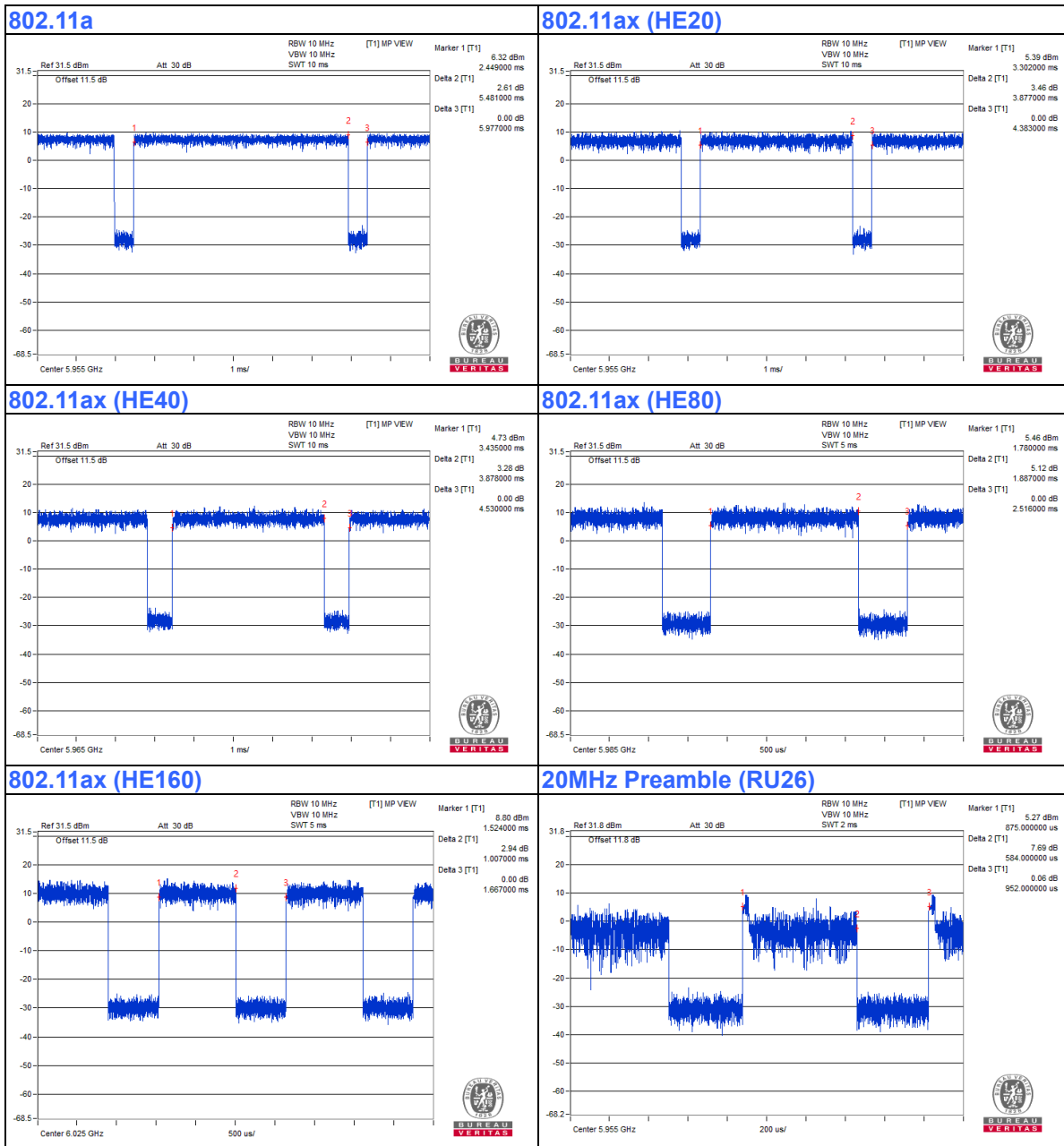
802.11ax (HE80): Duty cycle = 1.887 ms/2.516 ms= 0.75, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 1.25 \text{ dB}$

802.11ax (HE160): Duty cycle = 1.007 ms/1.667 ms= 0.604, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.19 \text{ dB}$

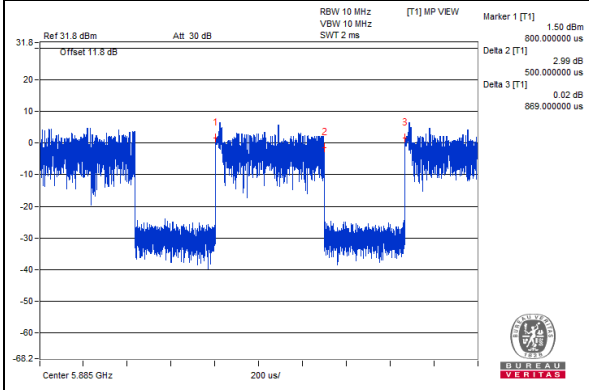
20MHz Preamble (RU26): Duty cycle = 0.584 ms /0.952 ms = 0.613, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.12 \text{ dB}$

20MHz Preamble (RU52): Duty cycle = 0.5 ms /0.869 ms = 0.575, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.40 \text{ dB}$

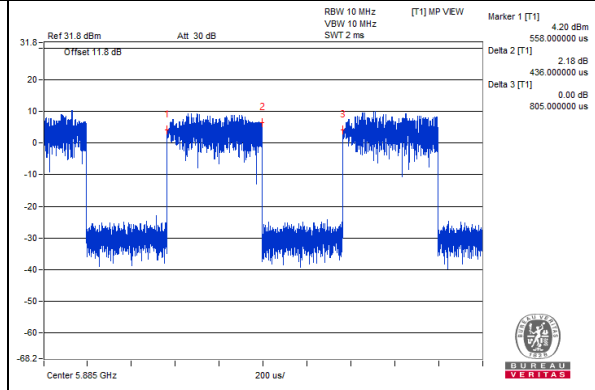
20MHz Preamble (RU106): Duty cycle = 0.436 ms /0.805 ms = 0.542, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.66 \text{ dB}$



20MHz Preamble (RU52)



20MHz Preamble (RU106)



3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	E6440	F9LYQ32	FCC DoC	Provided by Lab
B.	Test Tool	MTK	NA	NA	NA	Supplied by applicant
C.	Adapter	Dell	LA65NS2-01	NA	NA	Provided by Lab

Note:

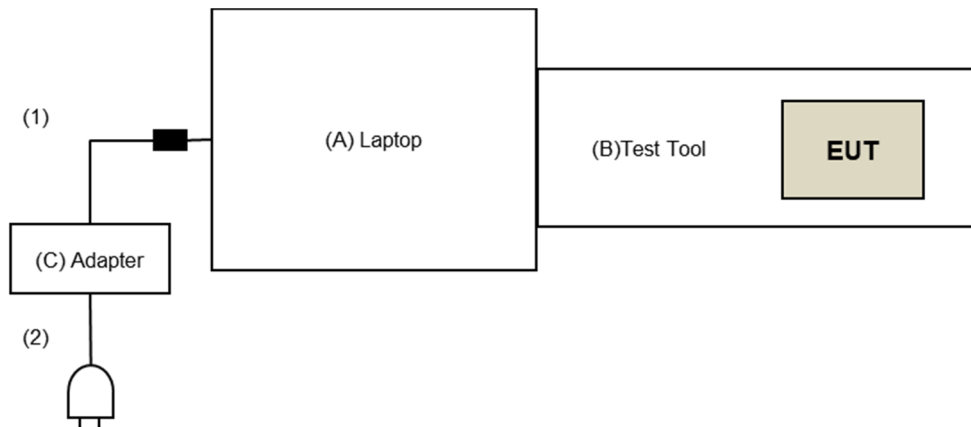
1. All power cords of the above support units are non-shielded (1.8m).

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

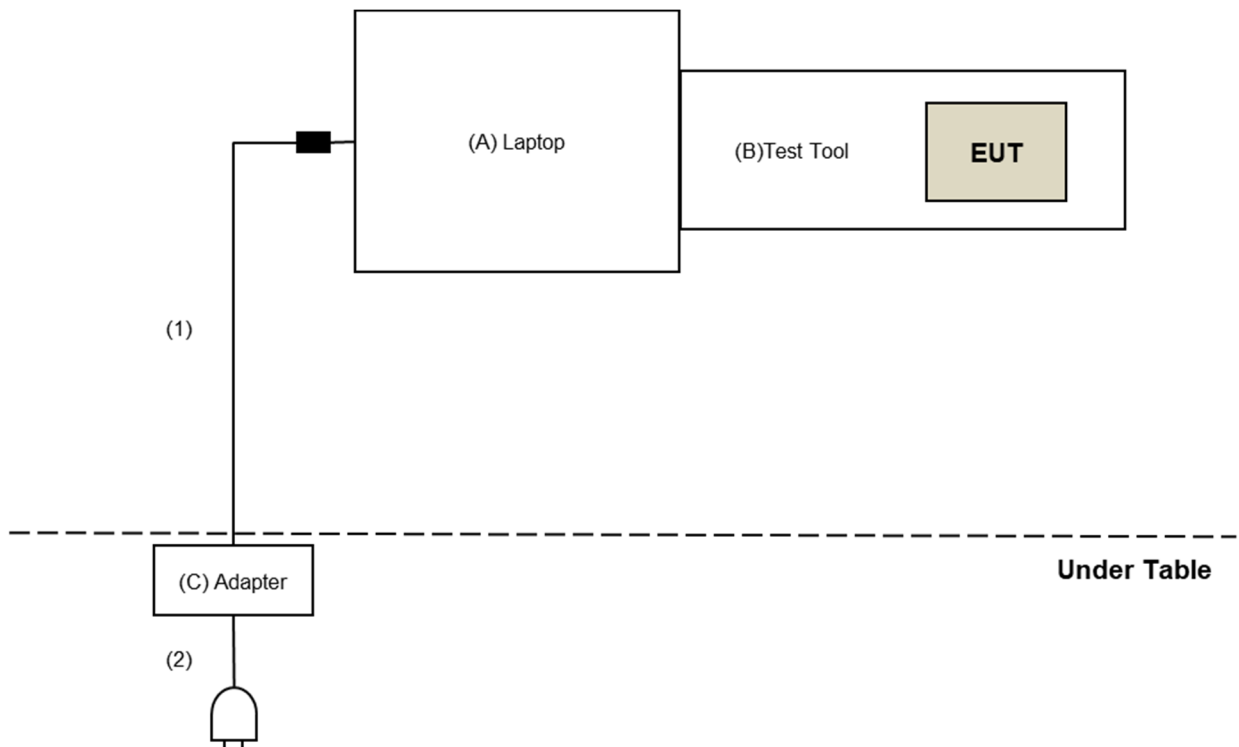
Note: The core(s) is(are) originally attached to the cable(s).

3.4.1 Configuration of System under Test

For AC Power Conducted Emission test:



For Radiated Emission test:



3.5 General Description of Applied Standard

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:

FCC Part 15, Subpart E (15.407)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 987594 D02 EMC Measurement v01r01

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

NOTE:

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 1000MHz, 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 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3m
5925MHz > F > 7125MHz	Peak:-7 (dBm/MHz)	88.2(dBμV/m)
	Average: -27 (dBm/MHz)	68.2(dBμV/m)

Note:

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

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

4.1.2 Test Instruments

For Radiated Emission test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY51210202	2021/11/19	2022/11/18
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA
Pre_Amplifier EMCI	EMC001340	980142	2021/5/24	2022/5/23
LOOP ANTENNA Electro-Metrics	EM-6879	264	2021/3/5	2022/3/4
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/1/6	2023/1/5
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-002	2022/1/6	2023/1/5
Pre_Amplifier EMCI	EMC330N	980701	2021/3/10	2022/3/9
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-406	2021/10/27	2022/10/26
RF Coaxial Cable COMMATE/PEWC	8D	966-4-1	2021/3/17	2022/3/16
RF Coaxial Cable COMMATE/PEWC	8D	966-4-2	2021/3/17	2022/3/16
RF Coaxial Cable COMMATE/PEWC	8D	966-4-3	2021/3/17	2022/3/16
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2022/1/10	2023/1/9
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2021/11/14	2022/11/13
Pre_Amplifier EMCI	EMC 12630 SE	980638	2021/4/7	2022/4/6
RF Cable-Frequency Range : 1-26.5GHz EMCI	EMC104-SM-SM-1200	160922	2021/12/24	2022/12/23
RF Coaxial Cable EMCI	EMC104-SM-SM-2000	180502	2021/4/26	2022/4/25
RF Coaxial Cable EMCI	EMC104-SM-SM-6000	210704	2021/11/9	2022/11/8
Pre_Amplifier EMCI	EMC184045SE	980387	2022/1/10	2023/1/9
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170519	2021/11/14	2022/11/13
RF Cable-Frequency range: 1-40GHz EMCI	EMC102-KM-KM-1200	160924	2022/1/10	2023/1/9
RF cable (40GHz) EMCI	EMC-KM-KM-4000	200214	2021/3/10	2022/3/9

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 4.
3. Tested Date: 2022/1/13 ~ 2022/1/16

For Legacy mode: BandEdge test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Signal Analyzer Keysight	N9010A	MY56070348	2021/9/15	2022/9/14
MXE EMI Receiver KEYSIGHT	N9038B	MY60180019	2021/2/1	2022/1/31
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2020/11/22	2021/11/21
Pre_Amplifier EMCI	EMC 12630 SE	980638	2021/4/7	2022/4/6
RF Cable-Frequency Range : 1-26.5GHz EMCI	EMC104-SM-SM-1200	160922	2020/12/25	2021/12/24
RF Coaxial Cable EMCI	EMC104-SM-SM-2000	180502	2021/4/26	2022/4/25
RF Coaxial Cable EMCI	EMC104-SM-SM-6000	180418	2021/4/26	2022/4/25
Pre_Amplifier EMCI	EMC184045SE	980387	2021/1/11	2022/1/10
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170519	2020/11/22	2021/11/21
RF Cable-Frequency range: 1-40GHz EMCI	EMC102-KM-KM-1200	160924	2021/1/11	2022/1/10
RF cable (40GHz) EMCI	EMC-KM-KM-4000	200214	2021/3/10	2022/3/9

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 4.
3. Tested Date: 2021/11/10

For RU mode: BandEdge test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Signal Analyzer Keysight	N9010A	MY56070348	2021/9/15	2022/9/14
MXE EMI Receiver KEYSIGHT	N9038B	MY60180019	2021/2/1	2022/1/31
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2021/11/14	2022/11/13
Pre_Amplifier EMCI	EMC 12630 SE	980638	2021/4/7	2022/4/6
RF Cable-Frequency Range : 1-26.5GHz EMCI	EMC104-SM-SM-1200	160922	2020/12/25	2021/12/24
RF Coaxial Cable EMCI	EMC104-SM-SM-2000	180502	2021/4/26	2022/4/25
RF Coaxial Cable EMCI	EMC104-SM-SM-6000	180418	2021/4/26	2022/4/25
Pre_Amplifier EMCI	EMC184045SE	980387	2021/1/11	2022/1/10
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170519	2021/11/14	2022/11/13
RF Cable-Frequency range: 1-40GHz EMCI	EMC102-KM-KM-1200	160924	2021/1/11	2022/1/10
RF cable (40GHz) EMCI	EMC-KM-KM-4000	200214	2021/3/10	2022/3/9

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 4.
3. Tested Date: 2021/12/17

For other test items:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	101516	2021/3/8	2022/3/7
Power Meter Anritsu	ML2495A	1529002	2021/6/21	2022/6/20
Pulse Power Sensor Anritsu	MA2411B	1339443	2021/5/31	2022/5/30
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2021/4/13	2022/4/12
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA
DC POWER SUPPLY Topward	6603D	795558	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	2021/1/14	2022/1/13
True RMS Clamp Meter Fluke	325	31130711WS	2021/6/2	2022/6/1

- NOTE:**
1. The test was performed in Oven room 2.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: 2021/11/10 ~ 2021/12/30

4.1.3 Test Procedure

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

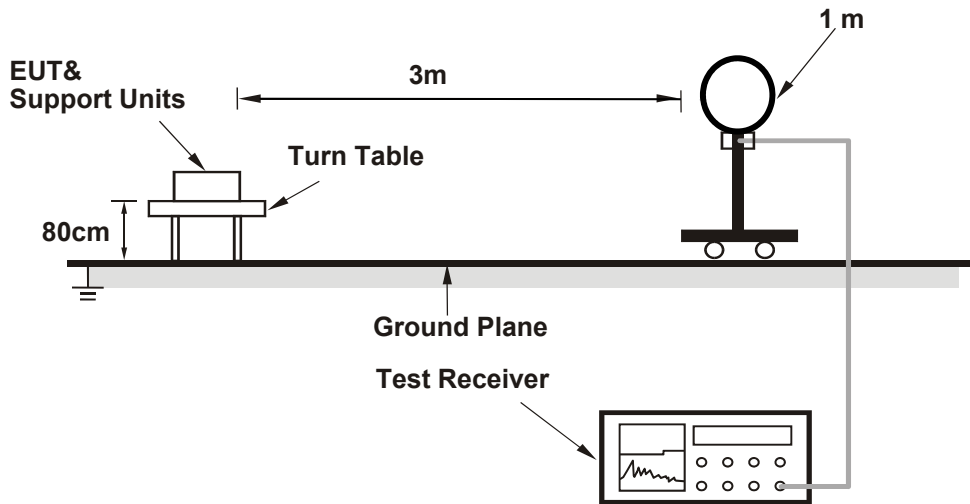
- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving 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.
- f. The test-receiver system was set to peak 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 RMS detector is unnecessary.

Note:

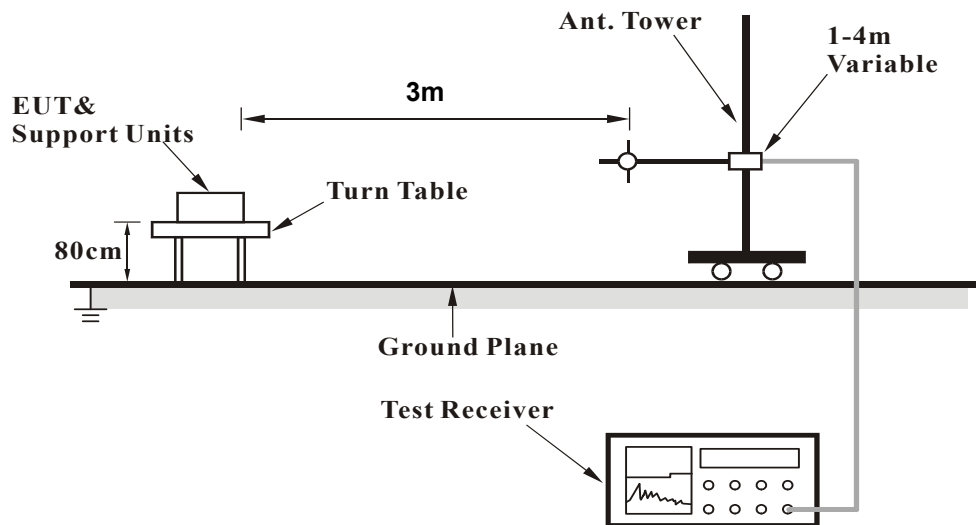
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The detection is peak and the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average measurement (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Test Setup

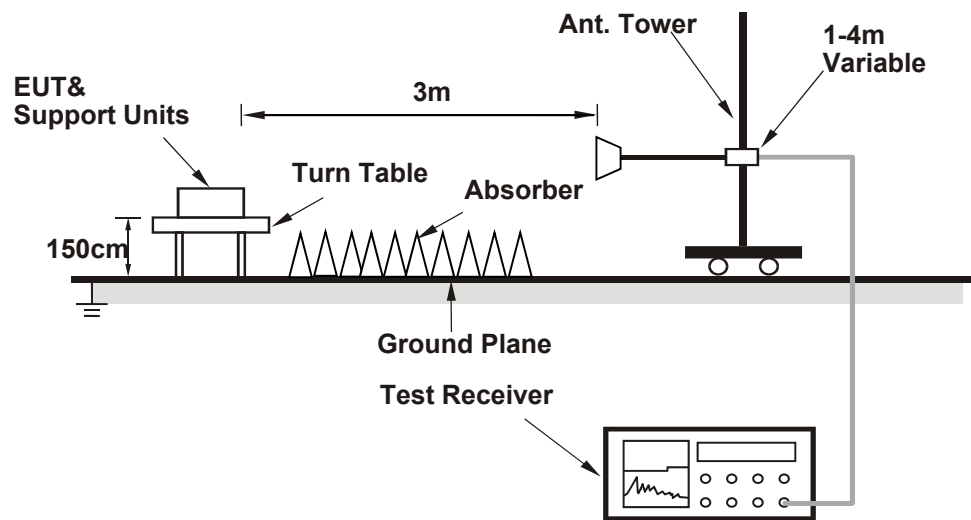
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.5 EUT Operating Condition

- a. Connected the EUT with the Laptop which is placed on the testing table.
- b. Controlling software (MT7902 QA 0.0.2.82) has been activated to set the EUT under transmission condition continuously.

4.1.6 Test Results

Above 1GHz Data:

For Antenna Set 2

RF Mode	TX 802.11a 6G	Channel	CH 1 : 5955 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	#5925.00	85.0 PK	88.2	-3.2	2.18 H	98	83.6	1.4
2	#5925.00	67.7 AV	68.2	-0.5	2.18 H	98	66.3	1.4
3	*5955.00	118.2 PK			2.18 H	98	116.7	1.5
4	*5955.00	110.3 AV			2.18 H	98	108.8	1.5
5	11910.00	56.9 PK	74.0	-17.1	1.48 H	93	46.0	10.9
6	11910.00	44.4 AV	54.0	-9.6	1.48 H	93	33.5	10.9
7	17865.00	55.2 PK	74.0	-18.8	1.38 H	194	33.6	21.6
8	17865.00	42.4 AV	54.0	-11.6	1.38 H	194	20.8	21.6
9	23820.00	57.0 PK	74.0	-17.0	1.72 H	139	59.4	-2.4
10	23820.00	44.8 AV	54.0	-9.2	1.72 H	139	47.2	-2.4

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	#5925.00	80.7 PK	88.2	-7.5	2.53 V	102	79.3	1.4
2	#5925.00	67.1 AV	68.2	-1.1	2.53 V	102	65.7	1.4
3	*5955.00	118.9 PK			2.53 V	102	117.4	1.5
4	*5955.00	110.6 AV			2.53 V	102	109.1	1.5
5	11910.00	60.6 PK	74.0	-13.4	1.77 V	105	49.7	10.9
6	11910.00	50.8 AV	54.0	-3.2	1.77 V	105	39.9	10.9
7	17865.00	54.3 PK	74.0	-19.7	1.46 V	17	32.7	21.6
8	17865.00	42.9 AV	54.0	-11.1	1.46 V	17	21.3	21.6
9	23820.00	57.6 PK	74.0	-16.4	2.68 V	81	60.0	-2.4
10	23820.00	45.4 AV	54.0	-8.6	2.68 V	81	47.8	-2.4

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 45 : 6175 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6175.00	118.0 PK			2.12 H	103	116.0	2.0
2	*6175.00	110.0 AV			2.12 H	103	108.0	2.0
3	12350.00	56.7 PK	74.0	-17.3	1.49 H	101	46.7	10.0
4	12350.00	44.0 AV	54.0	-10.0	1.49 H	101	34.0	10.0
5	18525.00	55.1 PK	74.0	-18.9	1.38 H	208	62.2	-7.1
6	18525.00	42.6 AV	54.0	-11.4	1.38 H	208	49.7	-7.1
7	#24700.00	57.6 PK	88.2	-30.6	1.76 H	142	59.2	-1.6
8	#24700.00	45.1 AV	68.2	-23.1	1.76 H	142	46.7	-1.6

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	*6175.00	119.4 PK			2.51 V	110	117.4	2.0
2	*6175.00	110.8 AV			2.51 V	110	108.8	2.0
3	12350.00	60.7 PK	74.0	-13.3	1.68 V	117	50.7	10.0
4	12350.00	50.7 AV	54.0	-3.3	1.68 V	117	40.7	10.0
5	18525.00	54.4 PK	74.0	-19.6	1.38 V	24	61.5	-7.1
6	18525.00	43.5 AV	54.0	-10.5	1.38 V	24	50.6	-7.1
7	#24700.00	57.3 PK	88.2	-30.9	2.65 V	76	58.9	-1.6
8	#24700.00	45.4 AV	68.2	-22.8	2.65 V	76	47.0	-1.6

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 93 : 6415 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6415.00	118.7 PK			2.08 H	107	115.8	2.9
2	*6415.00	109.5 AV			2.08 H	107	106.6	2.9
3	#12830.00	56.4 PK	88.2	-31.8	1.43 H	83	45.9	10.5
4	#12830.00	44.2 AV	68.2	-24.0	1.43 H	83	33.7	10.5
5	19245.00	55.2 PK	74.0	-18.8	1.43 H	181	61.7	-6.5
6	19245.00	42.6 AV	54.0	-11.4	1.43 H	181	49.1	-6.5
7	#25660.00	57.5 PK	88.2	-30.7	1.70 H	146	58.7	-1.2
8	#25660.00	45.2 AV	68.2	-23.0	1.70 H	146	46.4	-1.2

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	*6415.00	118.5 PK			2.50 V	90	115.6	2.9
2	*6415.00	110.5 AV			2.50 V	90	107.6	2.9
3	#12830.00	60.3 PK	88.2	-27.9	1.74 V	116	49.8	10.5
4	#12830.00	50.4 AV	68.2	-17.8	1.74 V	116	39.9	10.5
5	19245.00	54.4 PK	74.0	-19.6	1.41 V	24	60.9	-6.5
6	19245.00	43.2 AV	54.0	-10.8	1.41 V	24	49.7	-6.5
7	#25660.00	57.8 PK	88.2	-30.4	2.64 V	82	59.0	-1.2
8	#25660.00	45.8 AV	68.2	-22.4	2.64 V	82	47.0	-1.2

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 97 : 6435 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6435.00	118.4 PK			2.12 H	116	115.5	2.9
2	*6435.00	109.1 AV			2.12 H	116	106.2	2.9
3	#12870.00	56.8 PK	88.2	-31.4	1.51 H	106	46.3	10.5
4	#12870.00	44.3 AV	68.2	-23.9	1.51 H	106	33.8	10.5
5	19305.00	55.1 PK	74.0	-18.9	1.37 H	203	61.9	-6.8
6	19305.00	42.8 AV	54.0	-11.2	1.37 H	203	49.6	-6.8
7	#25740.00	57.7 PK	88.2	-30.5	1.79 H	155	58.9	-1.2
8	#25740.00	45.0 AV	68.2	-23.2	1.79 H	155	46.2	-1.2

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	*6435.00	118.2 PK			2.53 V	80	115.3	2.9
2	*6435.00	110.0 AV			2.53 V	80	107.1	2.9
3	#12870.00	60.2 PK	88.2	-28.0	1.78 V	127	49.7	10.5
4	#12870.00	50.4 AV	68.2	-17.8	1.78 V	127	39.9	10.5
5	19305.00	54.1 PK	74.0	-19.9	1.38 V	33	60.9	-6.8
6	19305.00	42.8 AV	54.0	-11.2	1.38 V	33	49.6	-6.8
7	#25740.00	57.5 PK	88.2	-30.7	2.67 V	92	58.7	-1.2
8	#25740.00	45.3 AV	68.2	-22.9	2.67 V	92	46.5	-1.2

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 105 : 6475 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6475.00	117.7 PK			2.15 H	96	114.6	3.1
2	*6475.00	109.7 AV			2.15 H	96	106.6	3.1
3	#12950.00	56.5 PK	88.2	-31.7	1.54 H	121	46.0	10.5
4	#12950.00	43.9 AV	68.2	-24.3	1.54 H	121	33.4	10.5
5	19425.00	54.6 PK	74.0	-19.4	1.33 H	206	61.1	-6.5
6	19425.00	42.4 AV	54.0	-11.6	1.33 H	206	48.9	-6.5
7	#25900.00	57.4 PK	88.2	-30.8	1.77 H	152	58.5	-1.1
8	#25900.00	44.7 AV	68.2	-23.5	1.77 H	152	45.8	-1.1

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	*6475.00	118.7 PK			2.51 V	85	115.6	3.1
2	*6475.00	109.8 AV			2.51 V	85	106.7	3.1
3	#12950.00	60.2 PK	88.2	-28.0	1.78 V	111	49.7	10.5
4	#12950.00	50.0 AV	68.2	-18.2	1.78 V	111	39.5	10.5
5	19425.00	54.3 PK	74.0	-19.7	1.45 V	32	60.8	-6.5
6	19425.00	42.9 AV	54.0	-11.1	1.45 V	32	49.4	-6.5
7	#25900.00	57.4 PK	88.2	-30.8	2.68 V	98	58.5	-1.1
8	#25900.00	45.7 AV	68.2	-22.5	2.68 V	98	46.8	-1.1

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 113 : 6515 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6515.00	118.3 PK			2.08 H	107	114.9	3.4
2	*6515.00	110.2 AV			2.08 H	107	106.8	3.4
3	#13030.00	56.9 PK	88.2	-31.3	1.50 H	109	46.3	10.6
4	#13030.00	44.4 AV	68.2	-23.8	1.50 H	109	33.8	10.6
5	19545.00	55.6 PK	74.0	-18.4	1.32 H	189	61.8	-6.2
6	19545.00	43.2 AV	54.0	-10.8	1.32 H	189	49.4	-6.2
7	#26060.00	58.1 PK	88.2	-30.1	1.82 H	167	59.1	-1.0
8	#26060.00	45.4 AV	68.2	-22.8	1.82 H	167	46.4	-1.0

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	*6515.00	118.3 PK			2.53 V	88	114.9	3.4
2	*6515.00	109.4 AV			2.53 V	88	106.0	3.4
3	#13030.00	59.9 PK	88.2	-28.3	1.74 V	118	49.3	10.6
4	#13030.00	49.9 AV	68.2	-18.3	1.74 V	118	39.3	10.6
5	19545.00	54.2 PK	74.0	-19.8	1.42 V	31	60.4	-6.2
6	19545.00	43.2 AV	54.0	-10.8	1.42 V	31	49.4	-6.2
7	#26060.00	58.2 PK	88.2	-30.0	2.60 V	71	59.2	-1.0
8	#26060.00	46.2 AV	68.2	-22.0	2.60 V	71	47.2	-1.0

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 117 : 6535 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6535.00	119.0 PK			2.11 H	93	115.5	3.5
2	*6535.00	109.6 AV			2.11 H	93	106.1	3.5
3	#13070.00	57.1 PK	88.2	-31.1	1.58 H	122	46.3	10.8
4	#13070.00	44.3 AV	68.2	-23.9	1.58 H	122	33.5	10.8
5	19605.00	54.5 PK	74.0	-19.5	1.28 H	209	60.5	-6.0
6	19605.00	42.3 AV	54.0	-11.7	1.28 H	209	48.3	-6.0
7	#26140.00	57.8 PK	88.2	-30.4	1.82 H	145	58.7	-0.9
8	#26140.00	45.0 AV	68.2	-23.2	1.82 H	145	45.9	-0.9

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	*6535.00	118.2 PK			2.53 V	68	114.7	3.5
2	*6535.00	110.1 AV			2.53 V	68	106.6	3.5
3	#13070.00	59.5 PK	88.2	-28.7	1.75 V	134	48.7	10.8
4	#13070.00	49.6 AV	68.2	-18.6	1.75 V	134	38.8	10.8
5	19605.00	54.2 PK	74.0	-19.8	1.41 V	37	60.2	-6.0
6	19605.00	42.9 AV	54.0	-11.1	1.41 V	37	48.9	-6.0
7	#26140.00	58.0 PK	88.2	-30.2	2.55 V	56	58.9	-0.9
8	#26140.00	46.2 AV	68.2	-22.0	2.55 V	56	47.1	-0.9

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.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 153 : 6715 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6715.00	119.3 PK			2.16 H	90	115.4	3.9
2	*6715.00	110.1 AV			2.16 H	90	106.2	3.9
3	#13430.00	56.7 PK	88.2	-31.5	1.57 H	118	44.5	12.2
4	#13430.00	44.3 AV	68.2	-23.9	1.57 H	118	32.1	12.2
5	20145.00	54.7 PK	74.0	-19.3	1.37 H	191	60.3	-5.6
6	20145.00	42.2 AV	54.0	-11.8	1.37 H	191	47.8	-5.6
7	#26860.00	57.4 PK	88.2	-30.8	1.73 H	163	58.2	-0.8
8	#26860.00	45.0 AV	68.2	-23.2	1.73 H	163	45.8	-0.8

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	*6715.00	118.0 PK			2.55 V	86	114.1	3.9
2	*6715.00	109.1 AV			2.55 V	86	105.2	3.9
3	#13430.00	59.7 PK	88.2	-28.5	1.79 V	111	47.5	12.2
4	#13430.00	49.9 AV	68.2	-18.3	1.79 V	111	37.7	12.2
5	20145.00	53.6 PK	74.0	-20.4	1.40 V	21	59.2	-5.6
6	20145.00	42.7 AV	54.0	-11.3	1.40 V	21	48.3	-5.6
7	#26860.00	57.9 PK	88.2	-30.3	2.55 V	85	58.7	-0.8
8	#26860.00	45.9 AV	68.2	-22.3	2.55 V	85	46.7	-0.8

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 181 : 6855 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6855.00	117.6 PK			2.12 H	103	113.6	4.0
2	*6855.00	109.8 AV			2.12 H	103	105.8	4.0
3	#13710.00	56.9 PK	88.2	-31.3	1.60 H	125	44.1	12.8
4	#13710.00	43.9 AV	68.2	-24.3	1.60 H	125	31.1	12.8
5	20565.00	53.9 PK	74.0	-20.1	1.30 H	202	58.6	-4.7
6	20565.00	41.9 AV	54.0	-12.1	1.30 H	202	46.6	-4.7
7	#27420.00	58.1 PK	88.2	-30.1	1.77 H	154	59.0	-0.9
8	#27420.00	45.0 AV	68.2	-23.2	1.77 H	154	45.9	-0.9

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	*6855.00	118.4 PK			2.49 V	82	114.4	4.0
2	*6855.00	109.3 AV			2.49 V	82	105.3	4.0
3	#13710.00	59.8 PK	88.2	-28.4	1.68 V	120	47.0	12.8
4	#13710.00	49.8 AV	68.2	-18.4	1.68 V	120	37.0	12.8
5	20565.00	54.2 PK	74.0	-19.8	1.45 V	27	58.9	-4.7
6	20565.00	43.3 AV	54.0	-10.7	1.45 V	27	48.0	-4.7
7	#27420.00	58.2 PK	88.2	-30.0	2.63 V	83	59.1	-0.9
8	#27420.00	46.1 AV	68.2	-22.1	2.63 V	83	47.0	-0.9

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.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 185 : 6875 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6875.00	118.1 PK			2.07 H	123	114.0	4.1
2	*6875.00	109.8 AV			2.07 H	123	105.7	4.1
3	#13750.00	56.6 PK	88.2	-31.6	1.55 H	103	43.7	12.9
4	#13750.00	44.2 AV	68.2	-24.0	1.55 H	103	31.3	12.9
5	20625.00	55.7 PK	74.0	-18.3	1.31 H	195	60.5	-4.8
6	20625.00	43.2 AV	54.0	-10.8	1.31 H	195	48.0	-4.8
7	#27500.00	57.5 PK	88.2	-30.7	1.83 H	143	58.4	-0.9
8	#27500.00	44.9 AV	68.2	-23.3	1.83 H	143	45.8	-0.9

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	*6875.00	117.8 PK			2.58 V	59	113.7	4.1
2	*6875.00	109.8 AV			2.58 V	59	105.7	4.1
3	#13750.00	59.7 PK	88.2	-28.5	1.72 V	119	46.8	12.9
4	#13750.00	49.6 AV	68.2	-18.6	1.72 V	119	36.7	12.9
5	20625.00	54.6 PK	74.0	-19.4	1.48 V	17	59.4	-4.8
6	20625.00	43.6 AV	54.0	-10.4	1.48 V	17	48.4	-4.8
7	#27500.00	58.5 PK	88.2	-29.7	2.65 V	78	59.4	-0.9
8	#27500.00	46.2 AV	68.2	-22.0	2.65 V	78	47.1	-0.9

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.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 213 : 7015 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*7015.00	118.1 PK			2.16 H	106	112.8	5.3
2	*7015.00	110.0 AV			2.16 H	106	104.7	5.3
3	#14030.00	57.1 PK	88.2	-31.1	1.54 H	109	44.0	13.1
4	#14030.00	44.3 AV	68.2	-23.9	1.54 H	109	31.2	13.1
5	21045.00	54.4 PK	74.0	-19.6	1.24 H	217	58.5	-4.1
6	21045.00	42.3 AV	54.0	-11.7	1.24 H	217	46.4	-4.1
7	#28060.00	57.6 PK	88.2	-30.6	1.87 H	144	58.8	-1.2
8	#28060.00	44.6 AV	68.2	-23.6	1.87 H	144	45.8	-1.2

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	*7015.00	117.7 PK			2.48 V	80	112.4	5.3
2	*7015.00	109.6 AV			2.48 V	80	104.3	5.3
3	#14030.00	59.9 PK	88.2	-28.3	1.66 V	117	46.8	13.1
4	#14030.00	49.6 AV	68.2	-18.6	1.66 V	117	36.5	13.1
5	21045.00	54.4 PK	74.0	-19.6	1.40 V	15	58.5	-4.1
6	21045.00	43.4 AV	54.0	-10.6	1.40 V	15	47.5	-4.1
7	#28060.00	58.0 PK	88.2	-30.2	2.66 V	79	59.2	-1.2
8	#28060.00	45.9 AV	68.2	-22.3	2.66 V	79	47.1	-1.2

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 233 : 7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*7115.00	101.2 PK			2.11 H	116	95.6	5.6
2	*7115.00	93.2 AV			2.11 H	116	87.6	5.6
3	#7125.00	84.7 PK	88.2	-3.5	2.11 H	116	79.0	5.7
4	#7125.00	62.0 AV	68.2	-6.2	2.11 H	116	56.3	5.7
5	#14230.00	45.6 PK	88.2	-42.6	1.53 H	98	32.1	13.5
6	#14230.00	34.9 AV	68.2	-33.3	1.53 H	98	21.4	13.5
7	21345.00	54.2 PK	74.0	-19.8	1.26 H	218	58.0	-3.8
8	21345.00	42.3 AV	54.0	-11.7	1.26 H	218	46.1	-3.8
9	#28460.00	57.6 PK	88.2	-30.6	1.90 H	141	58.9	-1.3
10	#28460.00	44.7 AV	68.2	-23.5	1.90 H	141	46.0	-1.3

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	*7115.00	107.7 PK			2.76 V	81	102.1	5.6
2	*7115.00	99.4 AV			2.76 V	81	93.8	5.6
3	#7125.00	85.6 PK	88.2	-2.6	2.76 V	81	79.9	5.7
4	#7125.00	67.5 AV	68.2	-0.7	2.76 V	81	61.8	5.7
5	#14230.00	50.1 PK	88.2	-38.1	1.65 V	116	36.6	13.5
6	#14230.00	39.7 AV	68.2	-28.5	1.65 V	116	26.2	13.5
7	21345.00	53.4 PK	74.0	-20.6	1.40 V	4	57.2	-3.8
8	21345.00	41.6 AV	54.0	-12.4	1.40 V	4	45.4	-3.8
9	#28460.00	55.6 PK	88.2	-32.6	2.61 V	82	56.9	-1.3
10	#28460.00	43.7 AV	68.2	-24.5	2.61 V	82	45.0	-1.3

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 1 : 5955 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	#5925.00	79.5 PK	88.2	-8.7	2.10 H	86	78.1	1.4
2	#5925.00	66.1 AV	68.2	-2.1	2.10 H	86	64.7	1.4
3	*5955.00	119.3 PK			2.10 H	86	117.8	1.5
4	*5955.00	109.2 AV			2.10 H	86	107.7	1.5
5	11910.00	56.8 PK	74.0	-17.2	1.52 H	126	45.9	10.9
6	11910.00	44.5 AV	54.0	-9.5	1.52 H	126	33.6	10.9
7	17865.00	54.6 PK	74.0	-19.4	1.39 H	176	33.0	21.6
8	17865.00	42.3 AV	54.0	-11.7	1.39 H	176	20.7	21.6
9	23820.00	57.9 PK	74.0	-16.1	1.78 H	157	60.3	-2.4
10	23820.00	45.4 AV	54.0	-8.6	1.78 H	157	47.8	-2.4

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	#5925.00	78.9 PK	88.2	-9.3	2.51 V	103	77.5	1.4
2	#5925.00	66.6 AV	68.2	-1.6	2.51 V	103	65.2	1.4
3	*5955.00	119.3 PK			2.51 V	103	117.8	1.5
4	*5955.00	110.1 AV			2.51 V	103	108.6	1.5
5	11910.00	60.0 PK	74.0	-14.0	1.62 V	107	49.1	10.9
6	11910.00	49.5 AV	54.0	-4.5	1.62 V	107	38.6	10.9
7	17865.00	54.9 PK	74.0	-19.1	1.36 V	22	33.3	21.6
8	17865.00	43.6 AV	54.0	-10.4	1.36 V	22	22.0	21.6
9	23820.00	58.3 PK	74.0	-15.7	2.64 V	79	60.7	-2.4
10	23820.00	46.3 AV	54.0	-7.7	2.64 V	79	48.7	-2.4

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 45 : 6175 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6175.00	119.6 PK			2.08 H	71	117.6	2.0
2	*6175.00	109.3 AV			2.08 H	71	107.3	2.0
3	12350.00	56.9 PK	74.0	-17.1	1.46 H	103	46.9	10.0
4	12350.00	44.4 AV	54.0	-9.6	1.46 H	103	34.4	10.0
5	18525.00	55.0 PK	74.0	-19.0	1.43 H	181	62.1	-7.1
6	18525.00	42.4 AV	54.0	-11.6	1.43 H	181	49.5	-7.1
7	#24700.00	56.9 PK	88.2	-31.3	1.71 H	152	58.5	-1.6
8	#24700.00	44.8 AV	68.2	-23.4	1.71 H	152	46.4	-1.6

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	*6175.00	119.1 PK			2.48 V	102	117.1	2.0
2	*6175.00	110.0 AV			2.48 V	102	108.0	2.0
3	12350.00	59.8 PK	74.0	-14.2	1.80 V	146	49.8	10.0
4	12350.00	50.0 AV	54.0	-4.0	1.80 V	146	40.0	10.0
5	18525.00	54.6 PK	74.0	-19.4	1.39 V	39	61.7	-7.1
6	18525.00	43.0 AV	54.0	-11.0	1.39 V	39	50.1	-7.1
7	#24700.00	58.2 PK	88.2	-30.0	2.55 V	63	59.8	-1.6
8	#24700.00	46.5 AV	68.2	-21.7	2.55 V	63	48.1	-1.6

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 93 : 6415 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6415.00	119.0 PK			2.08 H	59	116.1	2.9
2	*6415.00	108.8 AV			2.08 H	59	105.9	2.9
3	#12830.00	56.9 PK	88.2	-31.3	1.58 H	121	46.4	10.5
4	#12830.00	44.8 AV	68.2	-23.4	1.58 H	121	34.3	10.5
5	19245.00	54.2 PK	74.0	-19.8	1.39 H	194	60.7	-6.5
6	19245.00	41.7 AV	54.0	-12.3	1.39 H	194	48.2	-6.5
7	#25660.00	57.1 PK	88.2	-31.1	1.75 H	152	58.3	-1.2
8	#25660.00	44.9 AV	68.2	-23.3	1.75 H	152	46.1	-1.2

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	*6415.00	118.8 PK			2.49 V	99	115.9	2.9
2	*6415.00	109.6 AV			2.49 V	99	106.7	2.9
3	#12830.00	59.5 PK	88.2	-28.7	1.68 V	106	49.0	10.5
4	#12830.00	49.6 AV	68.2	-18.6	1.68 V	106	39.1	10.5
5	19245.00	54.7 PK	74.0	-19.3	1.50 V	29	61.2	-6.5
6	19245.00	43.5 AV	54.0	-10.5	1.50 V	29	50.0	-6.5
7	#25660.00	58.8 PK	88.2	-29.4	2.69 V	79	60.0	-1.2
8	#25660.00	46.2 AV	68.2	-22.0	2.69 V	79	47.4	-1.2

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 97 : 6435 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6435.00	118.6 PK			2.10 H	65	115.7	2.9
2	*6435.00	108.7 AV			2.10 H	65	105.8	2.9
3	#12870.00	56.2 PK	88.2	-32.0	1.48 H	91	45.7	10.5
4	#12870.00	44.3 AV	68.2	-23.9	1.48 H	91	33.8	10.5
5	19305.00	55.2 PK	74.0	-18.8	1.46 H	193	62.0	-6.8
6	19305.00	42.8 AV	54.0	-11.2	1.46 H	193	49.6	-6.8
7	#25740.00	57.5 PK	88.2	-30.7	1.64 H	156	58.7	-1.2
8	#25740.00	45.0 AV	68.2	-23.2	1.64 H	156	46.2	-1.2

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	*6435.00	119.7 PK			2.48 V	108	116.8	2.9
2	*6435.00	110.4 AV			2.48 V	108	107.5	2.9
3	#12870.00	59.9 PK	88.2	-28.3	1.73 V	128	49.4	10.5
4	#12870.00	49.8 AV	68.2	-18.4	1.73 V	128	39.3	10.5
5	19305.00	54.0 PK	74.0	-20.0	1.47 V	17	60.8	-6.8
6	19305.00	43.3 AV	54.0	-10.7	1.47 V	17	50.1	-6.8
7	#25740.00	58.9 PK	88.2	-29.3	2.65 V	89	60.1	-1.2
8	#25740.00	46.5 AV	68.2	-21.7	2.65 V	89	47.7	-1.2

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 105 : 6475 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6475.00	119.5 PK			2.10 H	53	116.4	3.1
2	*6475.00	109.1 AV			2.10 H	53	106.0	3.1
3	#12950.00	56.5 PK	88.2	-31.7	1.50 H	117	46.0	10.5
4	#12950.00	44.2 AV	68.2	-24.0	1.50 H	117	33.7	10.5
5	19425.00	55.6 PK	74.0	-18.4	1.38 H	177	62.1	-6.5
6	19425.00	42.8 AV	54.0	-11.2	1.38 H	177	49.3	-6.5
7	#25900.00	56.7 PK	88.2	-31.5	1.68 H	147	57.8	-1.1
8	#25900.00	44.3 AV	68.2	-23.9	1.68 H	147	45.4	-1.1

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	*6475.00	119.1 PK			2.50 V	86	116.0	3.1
2	*6475.00	110.1 AV			2.50 V	86	107.0	3.1
3	#12950.00	59.6 PK	88.2	-28.6	1.78 V	118	49.1	10.5
4	#12950.00	49.8 AV	68.2	-18.4	1.78 V	118	39.3	10.5
5	19425.00	54.4 PK	74.0	-19.6	1.49 V	27	60.9	-6.5
6	19425.00	43.5 AV	54.0	-10.5	1.49 V	27	50.0	-6.5
7	#25900.00	58.7 PK	88.2	-29.5	2.60 V	100	59.8	-1.1
8	#25900.00	46.0 AV	68.2	-22.2	2.60 V	100	47.1	-1.1

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 113 : 6515 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6515.00	119.1 PK			2.13 H	72	115.7	3.4
2	*6515.00	109.0 AV			2.13 H	72	105.6	3.4
3	#13030.00	55.8 PK	88.2	-32.4	1.44 H	96	45.2	10.6
4	#13030.00	44.1 AV	68.2	-24.1	1.44 H	96	33.5	10.6
5	19545.00	55.1 PK	74.0	-18.9	1.43 H	192	61.3	-6.2
6	19545.00	42.5 AV	54.0	-11.5	1.43 H	192	48.7	-6.2
7	#26060.00	57.1 PK	88.2	-31.1	1.67 H	142	58.1	-1.0
8	#26060.00	44.8 AV	68.2	-23.4	1.67 H	142	45.8	-1.0

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	*6515.00	118.7 PK			2.53 V	113	115.3	3.4
2	*6515.00	109.6 AV			2.53 V	113	106.2	3.4
3	#13030.00	59.4 PK	88.2	-28.8	1.72 V	113	48.8	10.6
4	#13030.00	49.7 AV	68.2	-18.5	1.72 V	113	39.1	10.6
5	19545.00	54.9 PK	74.0	-19.1	1.45 V	39	61.1	-6.2
6	19545.00	43.8 AV	54.0	-10.2	1.45 V	39	50.0	-6.2
7	#26060.00	58.5 PK	88.2	-29.7	2.67 V	67	59.5	-1.0
8	#26060.00	45.7 AV	68.2	-22.5	2.67 V	67	46.7	-1.0

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 117 : 6535 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6535.00	119.3 PK			2.12 H	49	115.8	3.5
2	*6535.00	108.8 AV			2.12 H	49	105.3	3.5
3	#13070.00	57.0 PK	88.2	-31.2	1.48 H	105	46.2	10.8
4	#13070.00	44.6 AV	68.2	-23.6	1.48 H	105	33.8	10.8
5	19605.00	55.6 PK	74.0	-18.4	1.35 H	179	61.6	-6.0
6	19605.00	42.8 AV	54.0	-11.2	1.35 H	179	48.8	-6.0
7	#26140.00	56.9 PK	88.2	-31.3	1.65 H	149	57.8	-0.9
8	#26140.00	44.3 AV	68.2	-23.9	1.65 H	149	45.2	-0.9

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	*6535.00	118.9 PK			2.56 V	119	115.4	3.5
2	*6535.00	109.8 AV			2.56 V	119	106.3	3.5
3	#13070.00	59.4 PK	88.2	-28.8	1.66 V	101	48.6	10.8
4	#13070.00	49.9 AV	68.2	-18.3	1.66 V	101	39.1	10.8
5	19605.00	55.2 PK	74.0	-18.8	1.40 V	51	61.2	-6.0
6	19605.00	43.9 AV	54.0	-10.1	1.40 V	51	49.9	-6.0
7	#26140.00	58.4 PK	88.2	-29.8	2.66 V	64	59.3	-0.9
8	#26140.00	45.6 AV	68.2	-22.6	2.66 V	64	46.5	-0.9

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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 153 : 6715 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6715.00	118.7 PK			2.14 H	78	114.8	3.9
2	*6715.00	108.7 AV			2.14 H	78	104.8	3.9
3	#13430.00	56.0 PK	88.2	-32.2	1.48 H	111	43.8	12.2
4	#13430.00	43.8 AV	68.2	-24.4	1.48 H	111	31.6	12.2
5	20145.00	55.0 PK	74.0	-19.0	1.34 H	214	60.6	-5.6
6	20145.00	42.4 AV	54.0	-11.6	1.34 H	214	48.0	-5.6
7	#26860.00	57.7 PK	88.2	-30.5	1.74 H	145	58.5	-0.8
8	#26860.00	45.0 AV	68.2	-23.2	1.74 H	145	45.8	-0.8

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	*6715.00	119.0 PK			2.48 V	79	115.1	3.9
2	*6715.00	109.8 AV			2.48 V	79	105.9	3.9
3	#13430.00	59.4 PK	88.2	-28.8	1.68 V	105	47.2	12.2
4	#13430.00	49.5 AV	68.2	-18.7	1.68 V	105	37.3	12.2
5	20145.00	53.8 PK	74.0	-20.2	1.51 V	12	59.4	-5.6
6	20145.00	42.8 AV	54.0	-11.2	1.51 V	12	48.4	-5.6
7	#26860.00	58.1 PK	88.2	-30.1	2.62 V	99	58.9	-0.8
8	#26860.00	46.1 AV	68.2	-22.1	2.62 V	99	46.9	-0.8

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 181 : 6855 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6855.00	118.9 PK			2.10 H	83	114.9	4.0
2	*6855.00	109.0 AV			2.10 H	83	105.0	4.0
3	#13710.00	56.4 PK	88.2	-31.8	1.49 H	123	43.6	12.8
4	#13710.00	43.9 AV	68.2	-24.3	1.49 H	123	31.1	12.8
5	20565.00	54.8 PK	74.0	-19.2	1.39 H	220	59.5	-4.7
6	20565.00	42.4 AV	54.0	-11.6	1.39 H	220	47.1	-4.7
7	#27420.00	57.9 PK	88.2	-30.3	1.73 H	156	58.8	-0.9
8	#27420.00	45.0 AV	68.2	-23.2	1.73 H	156	45.9	-0.9

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	*6855.00	119.0 PK			2.53 V	96	115.0	4.0
2	*6855.00	110.1 AV			2.53 V	96	106.1	4.0
3	#13710.00	59.7 PK	88.2	-28.5	1.81 V	127	46.9	12.8
4	#13710.00	49.8 AV	68.2	-18.4	1.81 V	127	37.0	12.8
5	20565.00	54.1 PK	74.0	-19.9	1.48 V	13	58.8	-4.7
6	20565.00	43.4 AV	54.0	-10.6	1.48 V	13	48.1	-4.7
7	#27420.00	59.0 PK	88.2	-29.2	2.59 V	104	59.9	-0.9
8	#27420.00	46.3 AV	68.2	-21.9	2.59 V	104	47.2	-0.9

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.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 185 : 6875 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6875.00	119.1 PK			2.07 H	94	115.0	4.1
2	*6875.00	109.2 AV			2.07 H	94	105.1	4.1
3	#13750.00	56.2 PK	88.2	-32.0	1.54 H	121	43.3	12.9
4	#13750.00	43.8 AV	68.2	-24.4	1.54 H	121	30.9	12.9
5	20625.00	54.6 PK	74.0	-19.4	1.41 H	212	59.4	-4.8
6	20625.00	42.1 AV	54.0	-11.9	1.41 H	212	46.9	-4.8
7	#27500.00	57.4 PK	88.2	-30.8	1.71 H	149	58.3	-0.9
8	#27500.00	44.6 AV	68.2	-23.6	1.71 H	149	45.5	-0.9

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	*6875.00	118.6 PK			2.52 V	85	114.5	4.1
2	*6875.00	109.7 AV			2.52 V	85	105.6	4.1
3	#13750.00	59.9 PK	88.2	-28.3	1.65 V	120	47.0	12.9
4	#13750.00	50.0 AV	68.2	-18.2	1.65 V	120	37.1	12.9
5	20625.00	53.7 PK	74.0	-20.3	1.51 V	28	58.5	-4.8
6	20625.00	42.4 AV	54.0	-11.6	1.51 V	28	47.2	-4.8
7	#27500.00	58.5 PK	88.2	-29.7	2.61 V	114	59.4	-0.9
8	#27500.00	46.4 AV	68.2	-21.8	2.61 V	114	47.3	-0.9

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.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 213 : 7015 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*7015.00	118.7 PK			2.15 H	70	113.4	5.3
2	*7015.00	109.0 AV			2.15 H	70	103.7	5.3
3	#14030.00	56.4 PK	88.2	-31.8	1.44 H	115	43.3	13.1
4	#14030.00	43.6 AV	68.2	-24.6	1.44 H	115	30.5	13.1
5	21045.00	55.4 PK	74.0	-18.6	1.35 H	193	59.5	-4.1
6	21045.00	42.6 AV	54.0	-11.4	1.35 H	193	46.7	-4.1
7	#28060.00	57.7 PK	88.2	-30.5	1.75 H	140	58.9	-1.2
8	#28060.00	45.4 AV	68.2	-22.8	1.75 H	140	46.6	-1.2

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	*7015.00	118.4 PK			2.42 V	75	113.1	5.3
2	*7015.00	109.5 AV			2.42 V	75	104.2	5.3
3	#14030.00	59.7 PK	88.2	-28.5	1.64 V	97	46.6	13.1
4	#14030.00	49.9 AV	68.2	-18.3	1.64 V	97	36.8	13.1
5	21045.00	54.8 PK	74.0	-19.2	1.42 V	39	58.9	-4.1
6	21045.00	43.6 AV	54.0	-10.4	1.42 V	39	47.7	-4.1
7	#28060.00	58.3 PK	88.2	-29.9	2.68 V	74	59.5	-1.2
8	#28060.00	45.5 AV	68.2	-22.7	2.68 V	74	46.7	-1.2

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 233 : 7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*7115.00	84.8 PK			1.98 H	105	79.2	5.6
2	*7115.00	73.4 AV			1.98 H	105	67.8	5.6
3	#7125.00	70.5 PK	88.2	-17.7	1.98 H	105	64.8	5.7
4	#7125.00	61.6 AV	68.2	-6.6	1.98 H	105	55.9	5.7
5	#14230.00	45.5 PK	88.2	-42.7	1.52 H	104	32.0	13.5
6	#14230.00	34.6 AV	68.2	-33.6	1.52 H	104	21.1	13.5
7	21345.00	54.3 PK	74.0	-19.7	1.32 H	217	58.1	-3.8
8	21345.00	42.2 AV	54.0	-11.8	1.32 H	217	46.0	-3.8
9	#28460.00	57.5 PK	88.2	-30.7	1.89 H	130	58.8	-1.3
10	#28460.00	44.7 AV	68.2	-23.5	1.89 H	130	46.0	-1.3

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	*7115.00	91.6 PK			2.32 V	102	86.0	5.6
2	*7115.00	82.4 AV			2.32 V	102	76.8	5.6
3	#7125.00	79.3 PK	88.2	-8.9	2.32 V	102	73.6	5.7
4	#7125.00	67.7 AV	68.2	-0.5	2.32 V	102	62.0	5.7
5	#14230.00	50.7 PK	88.2	-37.5	1.64 V	128	37.2	13.5
6	#14230.00	40.2 AV	68.2	-28.0	1.64 V	128	26.7	13.5
7	21345.00	53.9 PK	74.0	-20.1	1.43 V	3	57.7	-3.8
8	21345.00	42.0 AV	54.0	-12.0	1.43 V	3	45.8	-3.8
9	#28460.00	55.6 PK	88.2	-32.6	2.66 V	69	56.9	-1.3
10	#28460.00	43.9 AV	68.2	-24.3	2.66 V	69	45.2	-1.3

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 3 : 5965 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	#5925.00	80.8 PK	88.2	-7.4	2.17 H	105	79.4	1.4
2	#5925.00	67.9 AV	68.2	-0.3	2.17 H	105	66.5	1.4
3	*5965.00	114.8 PK			2.17 H	105	113.3	1.5
4	*5965.00	104.0 AV			2.17 H	105	102.5	1.5
5	11930.00	51.6 PK	74.0	-22.4	1.46 H	126	40.7	10.9
6	11930.00	39.2 AV	54.0	-14.8	1.46 H	126	28.3	10.9
7	17895.00	55.3 PK	74.0	-18.7	1.29 H	198	33.1	22.2
8	17895.00	42.6 AV	54.0	-11.4	1.29 H	198	20.4	22.2
9	23860.00	58.4 PK	74.0	-15.6	1.72 H	141	60.8	-2.4
10	23860.00	44.8 AV	54.0	-9.2	1.72 H	141	47.2	-2.4

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	#5925.00	79.4 PK	88.2	-8.8	2.55 V	92	78.0	1.4
2	#5925.00	67.1 AV	68.2	-1.1	2.55 V	92	65.7	1.4
3	*5965.00	114.9 PK			2.55 V	92	113.4	1.5
4	*5965.00	104.7 AV			2.55 V	92	103.2	1.5
5	11930.00	55.4 PK	74.0	-18.6	1.69 V	117	44.5	10.9
6	11930.00	45.2 AV	54.0	-8.8	1.69 V	117	34.3	10.9
7	17895.00	53.4 PK	74.0	-20.6	1.47 V	38	31.2	22.2
8	17895.00	42.1 AV	54.0	-11.9	1.47 V	38	19.9	22.2
9	23860.00	55.2 PK	74.0	-18.8	2.63 V	119	57.6	-2.4
10	23860.00	43.7 AV	54.0	-10.3	2.63 V	119	46.1	-2.4

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 43 : 6165 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6165.00	115.1 PK			2.14 H	108	113.2	1.9
2	*6165.00	104.3 AV			2.14 H	108	102.4	1.9
3	12330.00	51.5 PK	74.0	-22.5	1.47 H	125	41.4	10.1
4	12330.00	39.4 AV	54.0	-14.6	1.47 H	125	29.3	10.1
5	18495.00	55.9 PK	74.0	-18.1	1.25 H	201	63.1	-7.2
6	18495.00	43.1 AV	54.0	-10.9	1.25 H	201	50.3	-7.2
7	#24660.00	58.4 PK	88.2	-29.8	1.75 H	147	60.1	-1.7
8	#24660.00	44.6 AV	68.2	-23.6	1.75 H	147	46.3	-1.7

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	*6165.00	115.1 PK			2.52 V	99	113.2	1.9
2	*6165.00	104.8 AV			2.52 V	99	102.9	1.9
3	12330.00	55.5 PK	74.0	-18.5	1.70 V	106	45.4	10.1
4	12330.00	45.0 AV	54.0	-9.0	1.70 V	106	34.9	10.1
5	18495.00	53.1 PK	74.0	-20.9	1.52 V	43	60.3	-7.2
6	18495.00	41.9 AV	54.0	-12.1	1.52 V	43	49.1	-7.2
7	#24660.00	54.6 PK	88.2	-33.6	2.65 V	106	56.3	-1.7
8	#24660.00	43.2 AV	68.2	-25.0	2.65 V	106	44.9	-1.7

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 91 : 6405 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6405.00	114.7 PK			2.20 H	95	111.8	2.9
2	*6405.00	104.1 AV			2.20 H	95	101.2	2.9
3	#12810.00	51.6 PK	88.2	-36.6	1.50 H	133	41.1	10.5
4	#12810.00	39.0 AV	68.2	-29.2	1.50 H	133	28.5	10.5
5	19215.00	55.0 PK	74.0	-19.0	1.33 H	210	61.4	-6.4
6	19215.00	42.1 AV	54.0	-11.9	1.33 H	210	48.5	-6.4
7	#25620.00	58.5 PK	88.2	-29.7	1.77 H	155	59.8	-1.3
8	#25620.00	44.9 AV	68.2	-23.3	1.77 H	155	46.2	-1.3

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	*6405.00	115.5 PK			2.58 V	93	112.6	2.9
2	*6405.00	105.1 AV			2.58 V	93	102.2	2.9
3	#12810.00	55.8 PK	88.2	-32.4	1.66 V	116	45.3	10.5
4	#12810.00	45.5 AV	68.2	-22.7	1.66 V	116	35.0	10.5
5	19215.00	52.9 PK	74.0	-21.1	1.45 V	44	59.3	-6.4
6	19215.00	41.6 AV	54.0	-12.4	1.45 V	44	48.0	-6.4
7	#25620.00	55.4 PK	88.2	-32.8	2.59 V	124	56.7	-1.3
8	#25620.00	43.7 AV	68.2	-24.5	2.59 V	124	45.0	-1.3

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 99 : 6445 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6445.00	114.9 PK			2.26 H	83	111.9	3.0
2	*6445.00	104.3 AV			2.26 H	83	101.3	3.0
3	#12890.00	51.5 PK	88.2	-36.7	1.42 H	121	41.0	10.5
4	#12890.00	39.2 AV	68.2	-29.0	1.42 H	121	28.7	10.5
5	19335.00	55.7 PK	74.0	-18.3	1.22 H	212	62.4	-6.7
6	19335.00	42.7 AV	54.0	-11.3	1.22 H	212	49.4	-6.7
7	#25780.00	57.9 PK	88.2	-30.3	1.78 H	159	59.0	-1.1
8	#25780.00	44.2 AV	68.2	-24.0	1.78 H	159	45.3	-1.1

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	*6445.00	115.0 PK			2.56 V	108	112.0	3.0
2	*6445.00	104.9 AV			2.56 V	108	101.9	3.0
3	#12890.00	55.7 PK	88.2	-32.5	1.68 V	104	45.2	10.5
4	#12890.00	45.4 AV	68.2	-22.8	1.68 V	104	34.9	10.5
5	19335.00	52.7 PK	74.0	-21.3	1.43 V	41	59.4	-6.7
6	19335.00	41.7 AV	54.0	-12.3	1.43 V	41	48.4	-6.7
7	#25780.00	54.8 PK	88.2	-33.4	2.60 V	109	55.9	-1.1
8	#25780.00	43.4 AV	68.2	-24.8	2.60 V	109	44.5	-1.1

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 107 : 6485 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6485.00	114.7 PK			2.11 H	122	111.4	3.3
2	*6485.00	104.0 AV			2.11 H	122	100.7	3.3
3	#12970.00	51.2 PK	88.2	-37.0	1.50 H	117	40.7	10.5
4	#12970.00	38.7 AV	68.2	-29.5	1.50 H	117	28.2	10.5
5	19455.00	54.7 PK	74.0	-19.3	1.32 H	215	61.1	-6.4
6	19455.00	41.7 AV	54.0	-12.3	1.32 H	215	48.1	-6.4
7	#25940.00	59.1 PK	88.2	-29.1	1.78 H	149	60.2	-1.1
8	#25940.00	45.4 AV	68.2	-22.8	1.78 H	149	46.5	-1.1

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	*6485.00	115.5 PK			2.62 V	105	112.2	3.3
2	*6485.00	105.0 AV			2.62 V	105	101.7	3.3
3	#12970.00	55.6 PK	88.2	-32.6	1.75 V	120	45.1	10.5
4	#12970.00	45.3 AV	68.2	-22.9	1.75 V	120	34.8	10.5
5	19455.00	54.0 PK	74.0	-20.0	1.43 V	30	60.4	-6.4
6	19455.00	42.5 AV	54.0	-11.5	1.43 V	30	48.9	-6.4
7	#25940.00	55.2 PK	88.2	-33.0	2.65 V	133	56.3	-1.1
8	#25940.00	43.7 AV	68.2	-24.5	2.65 V	133	44.8	-1.1

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 115 : 6525 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6525.00	115.4 PK			2.10 H	96	112.0	3.4
2	*6525.00	104.6 AV			2.10 H	96	101.2	3.4
3	#13050.00	51.5 PK	88.2	-36.7	1.48 H	111	40.8	10.7
4	#13050.00	39.6 AV	68.2	-28.6	1.48 H	111	28.9	10.7
5	19575.00	56.3 PK	74.0	-17.7	1.23 H	207	62.3	-6.0
6	19575.00	43.3 AV	54.0	-10.7	1.23 H	207	49.3	-6.0
7	#26100.00	58.6 PK	88.2	-29.6	1.79 H	137	59.4	-0.8
8	#26100.00	44.6 AV	68.2	-23.6	1.79 H	137	45.4	-0.8

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	*6525.00	115.1 PK			2.60 V	96	111.7	3.4
2	*6525.00	105.0 AV			2.60 V	96	101.6	3.4
3	#13050.00	55.4 PK	88.2	-32.8	1.74 V	117	44.7	10.7
4	#13050.00	45.3 AV	68.2	-22.9	1.74 V	117	34.6	10.7
5	19575.00	54.0 PK	74.0	-20.0	1.43 V	41	60.0	-6.0
6	19575.00	42.6 AV	54.0	-11.4	1.43 V	41	48.6	-6.0
7	#26100.00	54.6 PK	88.2	-33.6	2.59 V	138	55.4	-0.8
8	#26100.00	43.4 AV	68.2	-24.8	2.59 V	138	44.2	-0.8

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 123 : 6565 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6565.00	115.1 PK			2.08 H	136	111.4	3.7
2	*6565.00	104.1 AV			2.08 H	136	100.4	3.7
3	#13130.00	51.2 PK	88.2	-37.0	1.55 H	120	40.0	11.2
4	#13130.00	38.9 AV	68.2	-29.3	1.55 H	120	27.7	11.2
5	19695.00	55.2 PK	74.0	-18.8	1.33 H	195	61.2	-6.0
6	19695.00	42.3 AV	54.0	-11.7	1.33 H	195	48.3	-6.0
7	#26260.00	58.6 PK	88.2	-29.6	1.75 H	149	59.7	-1.1
8	#26260.00	45.2 AV	68.2	-23.0	1.75 H	149	46.3	-1.1

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	*6565.00	114.7 PK			2.56 V	111	111.0	3.7
2	*6565.00	104.6 AV			2.56 V	111	100.9	3.7
3	#13130.00	55.6 PK	88.2	-32.6	1.68 V	93	44.4	11.2
4	#13130.00	45.6 AV	68.2	-22.6	1.68 V	93	34.4	11.2
5	19695.00	52.9 PK	74.0	-21.1	1.40 V	50	58.9	-6.0
6	19695.00	41.8 AV	54.0	-12.2	1.40 V	50	47.8	-6.0
7	#26260.00	55.2 PK	88.2	-33.0	2.58 V	111	56.3	-1.1
8	#26260.00	43.6 AV	68.2	-24.6	2.58 V	111	44.7	-1.1

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 155 : 6725 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6725.00	114.3 PK			2.12 H	133	110.4	3.9
2	*6725.00	103.5 AV			2.12 H	133	99.6	3.9
3	#13450.00	51.4 PK	88.2	-36.8	1.47 H	111	39.2	12.2
4	#13450.00	39.1 AV	68.2	-29.1	1.47 H	111	26.9	12.2
5	20175.00	55.3 PK	74.0	-18.7	1.17 H	212	60.8	-5.5
6	20175.00	42.3 AV	54.0	-11.7	1.17 H	212	47.8	-5.5
7	#26900.00	57.4 PK	88.2	-30.8	1.77 H	167	58.2	-0.8
8	#26900.00	44.0 AV	68.2	-24.2	1.77 H	167	44.8	-0.8

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	*6725.00	115.4 PK			2.57 V	91	111.5	3.9
2	*6725.00	104.8 AV			2.57 V	91	100.9	3.9
3	#13450.00	55.5 PK	88.2	-32.7	1.64 V	117	43.3	12.2
4	#13450.00	45.0 AV	68.2	-23.2	1.64 V	117	32.8	12.2
5	20175.00	52.8 PK	74.0	-21.2	1.51 V	41	58.3	-5.5
6	20175.00	41.9 AV	54.0	-12.1	1.51 V	41	47.4	-5.5
7	#26900.00	54.3 PK	88.2	-33.9	2.69 V	119	55.1	-0.8
8	#26900.00	43.2 AV	68.2	-25.0	2.69 V	119	44.0	-0.8

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 179 : 6845 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6845.00	115.7 PK			2.13 H	133	111.7	4.0
2	*6845.00	104.6 AV			2.13 H	133	100.6	4.0
3	#13690.00	51.5 PK	88.2	-36.7	1.45 H	126	38.6	12.9
4	#13690.00	39.9 AV	68.2	-28.3	1.45 H	126	27.0	12.9
5	20535.00	56.7 PK	74.0	-17.3	1.20 H	192	61.4	-4.7
6	20535.00	43.7 AV	54.0	-10.3	1.20 H	192	48.4	-4.7
7	#27380.00	58.0 PK	88.2	-30.2	1.76 H	137	58.9	-0.9
8	#27380.00	44.3 AV	68.2	-23.9	1.76 H	137	45.2	-0.9

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	*6845.00	115.9 PK			2.58 V	96	111.9	4.0
2	*6845.00	105.4 AV			2.58 V	96	101.4	4.0
3	#13690.00	55.1 PK	88.2	-33.1	1.71 V	127	42.2	12.9
4	#13690.00	45.2 AV	68.2	-23.0	1.71 V	127	32.3	12.9
5	20535.00	54.0 PK	74.0	-20.0	1.44 V	28	58.7	-4.7
6	20535.00	42.5 AV	54.0	-11.5	1.44 V	28	47.2	-4.7
7	#27380.00	55.0 PK	88.2	-33.2	2.54 V	154	55.9	-0.9
8	#27380.00	43.6 AV	68.2	-24.6	2.54 V	154	44.5	-0.9

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.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 187 : 6885 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6885.00	114.8 PK			2.11 H	121	110.6	4.2
2	*6885.00	103.6 AV			2.11 H	121	99.4	4.2
3	#13770.00	51.6 PK	88.2	-36.6	1.43 H	108	38.7	12.9
4	#13770.00	39.5 AV	68.2	-28.7	1.43 H	108	26.6	12.9
5	20655.00	55.9 PK	74.0	-18.1	1.13 H	227	60.6	-4.7
6	20655.00	42.7 AV	54.0	-11.3	1.13 H	227	47.4	-4.7
7	#27540.00	56.9 PK	88.2	-31.3	1.82 H	158	58.0	-1.1
8	#27540.00	43.6 AV	68.2	-24.6	1.82 H	158	44.7	-1.1

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	*6885.00	115.7 PK			2.53 V	90	111.5	4.2
2	*6885.00	105.3 AV			2.53 V	90	101.1	4.2
3	#13770.00	55.3 PK	88.2	-32.9	1.72 V	125	42.4	12.9
4	#13770.00	45.0 AV	68.2	-23.2	1.72 V	125	32.1	12.9
5	20655.00	53.9 PK	74.0	-20.1	1.48 V	31	58.6	-4.7
6	20655.00	42.7 AV	54.0	-11.3	1.48 V	31	47.4	-4.7
7	#27540.00	54.9 PK	88.2	-33.3	2.57 V	128	56.0	-1.1
8	#27540.00	43.8 AV	68.2	-24.4	2.57 V	128	44.9	-1.1

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 211 : 7005 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*7005.00	114.9 PK			2.07 H	124	109.5	5.4
2	*7005.00	104.0 AV			2.07 H	124	98.6	5.4
3	#14010.00	51.0 PK	88.2	-37.2	1.46 H	123	38.0	13.0
4	#14010.00	39.1 AV	68.2	-29.1	1.46 H	123	26.1	13.0
5	21015.00	56.5 PK	74.0	-17.5	1.25 H	196	60.5	-4.0
6	21015.00	43.6 AV	54.0	-10.4	1.25 H	196	47.6	-4.0
7	#28020.00	58.4 PK	88.2	-29.8	1.82 H	149	59.6	-1.2
8	#28020.00	44.3 AV	68.2	-23.9	1.82 H	149	45.5	-1.2

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	*7005.00	116.0 PK			2.62 V	85	110.6	5.4
2	*7005.00	105.5 AV			2.62 V	85	100.1	5.4
3	#14010.00	54.7 PK	88.2	-33.5	1.74 V	124	41.7	13.0
4	#14010.00	44.7 AV	68.2	-23.5	1.74 V	124	31.7	13.0
5	21015.00	53.5 PK	74.0	-20.5	1.43 V	43	57.5	-4.0
6	21015.00	42.3 AV	54.0	-11.7	1.43 V	43	46.3	-4.0
7	#28020.00	54.6 PK	88.2	-33.6	2.62 V	130	55.8	-1.2
8	#28020.00	43.6 AV	68.2	-24.6	2.62 V	130	44.8	-1.2

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 227 : 7085 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*7085.00	108.2 PK			2.07 H	104	102.8	5.4
2	*7085.00	96.8 AV			2.07 H	104	91.4	5.4
3	#7125.00	72.9 PK	88.2	-15.3	2.07 H	104	67.2	5.7
4	#7125.00	55.5 AV	68.2	-12.7	2.07 H	104	49.8	5.7
5	#14170.00	52.1 PK	88.2	-36.1	1.47 H	131	38.6	13.5
6	#14170.00	40.4 AV	68.2	-27.8	1.47 H	131	26.9	13.5
7	21255.00	56.4 PK	74.0	-17.6	1.16 H	199	60.4	-4.0
8	21255.00	43.6 AV	54.0	-10.4	1.16 H	199	47.6	-4.0
9	#28340.00	58.3 PK	88.2	-29.9	1.80 H	151	59.4	-1.1
10	#28340.00	44.6 AV	68.2	-23.6	1.80 H	151	45.7	-1.1

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	*7085.00	116.5 PK			2.34 V	106	111.1	5.4
2	*7085.00	106.0 AV			2.34 V	106	100.6	5.4
3	#7125.00	79.6 PK	88.2	-8.6	2.34 V	106	73.9	5.7
4	#7125.00	67.4 AV	68.2	-0.8	2.34 V	106	61.7	5.7
5	#14170.00	55.4 PK	88.2	-32.8	1.68 V	119	41.9	13.5
6	#14170.00	45.7 AV	68.2	-22.5	1.68 V	119	32.2	13.5
7	21255.00	53.6 PK	74.0	-20.4	1.46 V	22	57.6	-4.0
8	21255.00	42.3 AV	54.0	-11.7	1.46 V	22	46.3	-4.0
9	#28340.00	54.6 PK	88.2	-33.6	2.57 V	154	55.7	-1.1
10	#28340.00	43.1 AV	68.2	-25.1	2.57 V	154	44.2	-1.1

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 7 : 5985 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	#5925.00	78.1 PK	88.2	-10.1	2.09 H	103	76.7	1.4
2	#5925.00	66.7 AV	68.2	-1.5	2.09 H	103	65.3	1.4
3	*5985.00	111.8 PK			2.09 H	103	110.3	1.5
4	*5985.00	100.3 AV			2.09 H	103	98.8	1.5
5	11970.00	48.4 PK	74.0	-25.6	1.52 H	122	37.6	10.8
6	11970.00	36.5 AV	54.0	-17.5	1.52 H	122	25.7	10.8
7	17955.00	56.8 PK	74.0	-17.2	1.18 H	185	33.3	23.5
8	17955.00	44.0 AV	54.0	-10.0	1.18 H	185	20.5	23.5
9	23940.00	58.0 PK	74.0	-16.0	1.81 H	159	60.2	-2.2
10	23940.00	44.5 AV	54.0	-9.5	1.81 H	159	46.7	-2.2

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	#5925.00	77.7 PK	88.2	-10.5	2.57 V	110	76.3	1.4
2	#5925.00	66.9 AV	68.2	-1.3	2.57 V	110	65.5	1.4
3	*5985.00	112.6 PK			2.57 V	110	111.1	1.5
4	*5985.00	102.1 AV			2.57 V	110	100.6	1.5
5	11970.00	51.5 PK	74.0	-22.5	1.70 V	115	40.7	10.8
6	11970.00	40.8 AV	54.0	-13.2	1.70 V	115	30.0	10.8
7	17955.00	52.9 PK	74.0	-21.1	1.52 V	19	29.4	23.5
8	17955.00	41.9 AV	54.0	-12.1	1.52 V	19	18.4	23.5
9	23940.00	54.9 PK	74.0	-19.1	2.58 V	145	57.1	-2.2
10	23940.00	43.5 AV	54.0	-10.5	2.58 V	145	45.7	-2.2

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 39 : 6145 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6145.00	111.8 PK			2.14 H	98	110.0	1.8
2	*6145.00	100.3 AV			2.14 H	98	98.5	1.8
3	12290.00	48.7 PK	74.0	-25.3	1.56 H	110	38.6	10.1
4	12290.00	36.9 AV	54.0	-17.1	1.56 H	110	26.8	10.1
5	18435.00	57.3 PK	74.0	-16.7	1.14 H	179	64.5	-7.2
6	18435.00	44.4 AV	54.0	-9.6	1.14 H	179	51.6	-7.2
7	#24580.00	58.1 PK	88.2	-30.1	1.85 H	154	60.0	-1.9
8	#24580.00	44.4 AV	68.2	-23.8	1.85 H	154	46.3	-1.9

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	*6145.00	113.0 PK			2.52 V	102	111.2	1.8
2	*6145.00	102.3 AV			2.52 V	102	100.5	1.8
3	12290.00	51.8 PK	74.0	-22.2	1.70 V	102	41.7	10.1
4	12290.00	41.0 AV	54.0	-13.0	1.70 V	102	30.9	10.1
5	18435.00	52.5 PK	74.0	-21.5	1.51 V	32	59.7	-7.2
6	18435.00	41.8 AV	54.0	-12.2	1.51 V	32	49.0	-7.2
7	#24580.00	54.6 PK	88.2	-33.6	2.60 V	148	56.5	-1.9
8	#24580.00	43.1 AV	68.2	-25.1	2.60 V	148	45.0	-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.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 87 : 6385 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6385.00	111.6 PK			2.13 H	87	108.7	2.9
2	*6385.00	100.0 AV			2.13 H	87	97.1	2.9
3	#12770.00	48.8 PK	88.2	-39.4	1.56 H	113	38.4	10.4
4	#12770.00	36.6 AV	68.2	-31.6	1.56 H	113	26.2	10.4
5	19155.00	56.4 PK	74.0	-17.6	1.19 H	197	62.8	-6.4
6	19155.00	43.9 AV	54.0	-10.1	1.19 H	197	50.3	-6.4
7	#25540.00	58.1 PK	88.2	-30.1	1.83 H	147	59.5	-1.4
8	#25540.00	44.4 AV	68.2	-23.8	1.83 H	147	45.8	-1.4

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	*6385.00	113.3 PK			2.62 V	120	110.4	2.9
2	*6385.00	102.6 AV			2.62 V	120	99.7	2.9
3	#12770.00	51.1 PK	88.2	-37.1	1.66 V	118	40.7	10.4
4	#12770.00	40.7 AV	68.2	-27.5	1.66 V	118	30.3	10.4
5	19155.00	53.4 PK	74.0	-20.6	1.53 V	13	59.8	-6.4
6	19155.00	42.2 AV	54.0	-11.8	1.53 V	13	48.6	-6.4
7	#25540.00	54.5 PK	88.2	-33.7	2.64 V	133	55.9	-1.4
8	#25540.00	43.1 AV	68.2	-25.1	2.64 V	133	44.5	-1.4

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 103 : 6465 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6465.00	111.9 PK			2.19 H	96	108.8	3.1
2	*6465.00	100.2 AV			2.19 H	96	97.1	3.1
3	#12930.00	48.2 PK	88.2	-40.0	1.61 H	100	37.7	10.5
4	#12930.00	36.5 AV	68.2	-31.7	1.61 H	100	26.0	10.5
5	19395.00	57.6 PK	74.0	-16.4	1.15 H	173	64.3	-6.7
6	19395.00	44.7 AV	54.0	-9.3	1.15 H	173	51.4	-6.7
7	#25860.00	57.7 PK	88.2	-30.5	1.79 H	155	58.8	-1.1
8	#25860.00	43.9 AV	68.2	-24.3	1.79 H	155	45.0	-1.1

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	*6465.00	112.9 PK			2.57 V	101	109.8	3.1
2	*6465.00	102.4 AV			2.57 V	101	99.3	3.1
3	#12930.00	52.2 PK	88.2	-36.0	1.68 V	91	41.7	10.5
4	#12930.00	41.1 AV	68.2	-27.1	1.68 V	91	30.6	10.5
5	19395.00	52.3 PK	74.0	-21.7	1.49 V	23	59.0	-6.7
6	19395.00	41.5 AV	54.0	-12.5	1.49 V	23	48.2	-6.7
7	#25860.00	54.1 PK	88.2	-34.1	2.62 V	152	55.2	-1.1
8	#25860.00	42.7 AV	68.2	-25.5	2.62 V	152	43.8	-1.1

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 119 : 6545 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6545.00	112.0 PK			2.18 H	94	108.5	3.5
2	*6545.00	100.0 AV			2.18 H	94	96.5	3.5
3	#13090.00	49.0 PK	88.2	-39.2	1.52 H	95	38.0	11.0
4	#13090.00	37.3 AV	68.2	-30.9	1.52 H	95	26.3	11.0
5	19635.00	57.8 PK	74.0	-16.2	1.18 H	185	63.8	-6.0
6	19635.00	44.7 AV	54.0	-9.3	1.18 H	185	50.7	-6.0
7	#26180.00	57.4 PK	88.2	-30.8	1.86 H	143	58.4	-1.0
8	#26180.00	44.0 AV	68.2	-24.2	1.86 H	143	45.0	-1.0

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	*6545.00	113.3 PK			2.54 V	90	109.8	3.5
2	*6545.00	102.5 AV			2.54 V	90	99.0	3.5
3	#13090.00	51.1 PK	88.2	-37.1	1.66 V	110	40.1	11.0
4	#13090.00	40.7 AV	68.2	-27.5	1.66 V	110	29.7	11.0
5	19635.00	53.4 PK	74.0	-20.6	1.49 V	12	59.4	-6.0
6	19635.00	42.2 AV	54.0	-11.8	1.49 V	12	48.2	-6.0
7	#26180.00	53.9 PK	88.2	-34.3	2.67 V	131	54.9	-1.0
8	#26180.00	42.8 AV	68.2	-25.4	2.67 V	131	43.8	-1.0

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 135 : 6625 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6625.00	111.7 PK			2.16 H	107	107.9	3.8
2	*6625.00	99.6 AV			2.16 H	107	95.8	3.8
3	13250.00	48.4 PK	74.0	-25.6	1.55 H	106	36.9	11.5
4	13250.00	36.4 AV	54.0	-17.6	1.55 H	106	24.9	11.5
5	19875.00	56.0 PK	74.0	-18.0	1.14 H	202	62.0	-6.0
6	19875.00	43.7 AV	54.0	-10.3	1.14 H	202	49.7	-6.0
7	#26500.00	57.8 PK	88.2	-30.4	1.86 H	134	58.6	-0.8
8	#26500.00	44.4 AV	68.2	-23.8	1.86 H	134	45.2	-0.8

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	*6625.00	113.0 PK			2.58 V	112	109.2	3.8
2	*6625.00	102.5 AV			2.58 V	112	98.7	3.8
3	13250.00	51.8 PK	74.0	-22.2	1.65 V	91	40.3	11.5
4	13250.00	40.9 AV	54.0	-13.1	1.65 V	91	29.4	11.5
5	19875.00	51.9 PK	74.0	-22.1	1.46 V	27	57.9	-6.0
6	19875.00	41.5 AV	54.0	-12.5	1.46 V	27	47.5	-6.0
7	#26500.00	54.7 PK	88.2	-33.5	2.57 V	158	55.5	-0.8
8	#26500.00	43.3 AV	68.2	-24.9	2.57 V	158	44.1	-0.8

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 151 : 6705 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6705.00	111.5 PK			2.14 H	98	107.7	3.8
2	*6705.00	99.3 AV			2.14 H	98	95.5	3.8
3	#13410.00	48.6 PK	88.2	-39.6	1.54 H	116	36.6	12.0
4	#13410.00	36.7 AV	68.2	-31.5	1.54 H	116	24.7	12.0
5	20115.00	56.6 PK	74.0	-17.4	1.18 H	201	62.1	-5.5
6	20115.00	43.8 AV	54.0	-10.2	1.18 H	201	49.3	-5.5
7	#26820.00	58.2 PK	88.2	-30.0	1.85 H	170	59.0	-0.8
8	#26820.00	44.4 AV	68.2	-23.8	1.85 H	170	45.2	-0.8

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	*6705.00	113.1 PK			2.53 V	97	109.3	3.8
2	*6705.00	102.7 AV			2.53 V	97	98.9	3.8
3	#13410.00	52.2 PK	88.2	-36.0	1.62 V	82	40.2	12.0
4	#13410.00	41.0 AV	68.2	-27.2	1.62 V	82	29.0	12.0
5	20115.00	52.2 PK	74.0	-21.8	1.47 V	9	57.7	-5.5
6	20115.00	41.6 AV	54.0	-12.4	1.47 V	9	47.1	-5.5
7	#26820.00	54.8 PK	88.2	-33.4	2.66 V	160	55.6	-0.8
8	#26820.00	43.1 AV	68.2	-25.1	2.66 V	160	43.9	-0.8

Remarks:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- Margin value = Emission Level – Limit value
- The other emission levels were very low against the limit.
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 167 : 6785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6785.00	111.5 PK			2.21 H	106	107.7	3.8
2	*6785.00	99.7 AV			2.21 H	106	95.9	3.8
3	#13570.00	49.1 PK	88.2	-39.1	1.56 H	97	36.4	12.7
4	#13570.00	36.9 AV	68.2	-31.3	1.56 H	97	24.2	12.7
5	20355.00	56.6 PK	74.0	-17.4	1.23 H	203	61.9	-5.3
6	20355.00	44.3 AV	54.0	-9.7	1.23 H	203	49.6	-5.3
7	#27140.00	57.8 PK	88.2	-30.4	1.82 H	131	58.8	-1.0
8	#27140.00	44.3 AV	68.2	-23.9	1.82 H	131	45.3	-1.0

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	*6785.00	112.8 PK			2.56 V	127	109.0	3.8
2	*6785.00	102.3 AV			2.56 V	127	98.5	3.8
3	#13570.00	51.7 PK	88.2	-36.5	1.72 V	104	39.0	12.7
4	#13570.00	41.1 AV	68.2	-27.1	1.72 V	104	28.4	12.7
5	20355.00	53.5 PK	74.0	-20.5	1.54 V	22	58.8	-5.3
6	20355.00	42.0 AV	54.0	-12.0	1.54 V	22	47.3	-5.3
7	#27140.00	54.1 PK	88.2	-34.1	2.67 V	132	55.1	-1.0
8	#27140.00	42.7 AV	68.2	-25.5	2.67 V	132	43.7	-1.0

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 183 : 6865 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6865.00	111.2 PK			2.14 H	100	107.1	4.1
2	*6865.00	99.0 AV			2.14 H	100	94.9	4.1
3	#13730.00	48.7 PK	88.2	-39.5	1.56 H	103	35.8	12.9
4	#13730.00	37.0 AV	68.2	-31.2	1.56 H	103	24.1	12.9
5	20595.00	57.1 PK	74.0	-16.9	1.14 H	159	61.8	-4.7
6	20595.00	44.5 AV	54.0	-9.5	1.14 H	159	49.2	-4.7
7	#27460.00	57.3 PK	88.2	-30.9	1.84 H	167	58.2	-0.9
8	#27460.00	43.7 AV	68.2	-24.5	1.84 H	167	44.6	-0.9

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	*6865.00	113.4 PK			2.59 V	103	109.3	4.1
2	*6865.00	102.9 AV			2.59 V	103	98.8	4.1
3	#13730.00	51.2 PK	88.2	-37.0	1.75 V	110	38.3	12.9
4	#13730.00	40.8 AV	68.2	-27.4	1.75 V	110	27.9	12.9
5	20595.00	53.5 PK	74.0	-20.5	1.59 V	25	58.2	-4.7
6	20595.00	42.0 AV	54.0	-12.0	1.59 V	25	46.7	-4.7
7	#27460.00	54.1 PK	88.2	-34.1	2.66 V	133	55.0	-0.9
8	#27460.00	42.7 AV	68.2	-25.5	2.66 V	133	43.6	-0.9

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.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 199 : 6945 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6945.00	111.8 PK			2.24 H	90	107.0	4.8
2	*6945.00	99.7 AV			2.24 H	90	94.9	4.8
3	#13890.00	49.7 PK	88.2	-38.5	1.60 H	98	36.7	13.0
4	#13890.00	37.2 AV	68.2	-31.0	1.60 H	98	24.2	13.0
5	20835.00	56.9 PK	74.0	-17.1	1.21 H	200	61.3	-4.4
6	20835.00	44.6 AV	54.0	-9.4	1.21 H	200	49.0	-4.4
7	#27780.00	57.9 PK	88.2	-30.3	1.78 H	120	59.1	-1.2
8	#27780.00	44.4 AV	68.2	-23.8	1.78 H	120	45.6	-1.2

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	*6945.00	112.3 PK			2.62 V	130	107.5	4.8
2	*6945.00	102.0 AV			2.62 V	130	97.2	4.8
3	#13890.00	51.9 PK	88.2	-36.3	1.70 V	98	38.9	13.0
4	#13890.00	41.0 AV	68.2	-27.2	1.70 V	98	28.0	13.0
5	20835.00	51.2 PK	74.0	-22.8	1.49 V	36	55.6	-4.4
6	20835.00	41.1 AV	54.0	-12.9	1.49 V	36	45.5	-4.4
7	#27780.00	54.6 PK	88.2	-33.6	2.57 V	165	55.8	-1.2
8	#27780.00	43.2 AV	68.2	-25.0	2.57 V	165	44.4	-1.2

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 215 : 7025 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*7025.00	105.6 PK			2.12 H	106	100.2	5.4
2	*7025.00	95.5 AV			2.12 H	106	90.1	5.4
3	#7125.00	68.0 PK	88.2	-20.2	2.12 H	106	62.3	5.7
4	#7125.00	57.7 AV	68.2	-10.5	2.12 H	106	52.0	5.7
5	#14050.00	48.7 PK	88.2	-39.5	1.50 H	132	35.5	13.2
6	#14050.00	36.6 AV	68.2	-31.6	1.50 H	132	23.4	13.2
7	21075.00	57.1 PK	74.0	-16.9	1.19 H	193	61.2	-4.1
8	21075.00	44.1 AV	54.0	-9.9	1.19 H	193	48.2	-4.1
9	#28100.00	58.0 PK	88.2	-30.2	1.83 H	176	59.2	-1.2
10	#28100.00	44.2 AV	68.2	-24.0	1.83 H	176	45.4	-1.2

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	*7025.00	114.1 PK			2.44 V	105	108.7	5.4
2	*7025.00	104.4 AV			2.44 V	105	99.0	5.4
3	#7125.00	78.6 PK	88.2	-9.6	2.44 V	105	72.9	5.7
4	#7125.00	67.0 AV	68.2	-1.2	2.44 V	105	61.3	5.7
5	#14050.00	52.1 PK	88.2	-36.1	1.68 V	83	38.9	13.2
6	#14050.00	41.2 AV	68.2	-27.0	1.68 V	83	28.0	13.2
7	21075.00	51.9 PK	74.0	-22.1	1.52 V	16	56.0	-4.1
8	21075.00	41.2 AV	54.0	-12.8	1.52 V	16	45.3	-4.1
9	#28100.00	55.4 PK	88.2	-32.8	2.57 V	152	56.6	-1.2
10	#28100.00	43.8 AV	68.2	-24.4	2.57 V	152	45.0	-1.2

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 15 : 6025 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	#5902.10	79.3 PK	88.2	-8.9	2.21 H	100	78.1	1.2
2	#5902.10	64.2 AV	68.2	-4.0	2.21 H	100	63.0	1.2
3	#5925.00	76.1 PK	88.2	-12.1	2.21 H	100	74.7	1.4
4	#5925.00	66.3 AV	68.2	-1.9	2.21 H	100	64.9	1.4
5	*6025.00	106.1 PK			2.21 H	100	104.4	1.7
6	*6025.00	96.0 AV			2.21 H	100	94.3	1.7
7	12050.00	46.8 PK	74.0	-27.2	1.50 H	125	35.9	10.9
8	12050.00	35.9 AV	54.0	-18.1	1.50 H	125	25.0	10.9
9	18075.00	55.6 PK	74.0	-18.4	1.15 H	196	49.8	5.8
10	18075.00	42.6 AV	54.0	-11.4	1.15 H	196	36.8	5.8
11	#24100.00	57.3 PK	88.2	-30.9	1.85 H	174	59.5	-2.2
12	#24100.00	43.7 AV	68.2	-24.5	1.85 H	174	45.9	-2.2

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	#5897.60	79.7 PK	88.2	-8.5	2.62 V	103	78.4	1.3
2	#5897.60	64.3 AV	68.2	-3.9	2.62 V	103	63.0	1.3
3	#5925.00	76.2 PK	88.2	-12.0	2.62 V	103	74.8	1.4
4	#5925.00	67.7 AV	68.2	-0.5	2.62 V	103	66.3	1.4
5	*6025.00	107.7 PK			2.62 V	103	106.0	1.7
6	*6025.00	97.9 AV			2.62 V	103	96.2	1.7
7	12050.00	46.9 PK	74.0	-27.1	1.71 V	103	36.0	10.9
8	12050.00	36.9 AV	54.0	-17.1	1.71 V	103	26.0	10.9
9	18075.00	51.2 PK	74.0	-22.8	1.50 V	32	45.4	5.8
10	18075.00	40.9 AV	54.0	-13.1	1.50 V	32	35.1	5.8
11	#24100.00	54.5 PK	88.2	-33.7	2.54 V	173	56.7	-2.2
12	#24100.00	43.2 AV	68.2	-25.0	2.54 V	173	45.4	-2.2

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 47 : 6185 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6185.00	106.5 PK			2.15 H	95	104.5	2.0
2	*6185.00	96.4 AV			2.15 H	95	94.4	2.0
3	12370.00	46.4 PK	74.0	-27.6	1.52 H	112	36.4	10.0
4	12370.00	35.6 AV	54.0	-18.4	1.52 H	112	25.6	10.0
5	18555.00	55.5 PK	74.0	-18.5	1.21 H	201	62.5	-7.0
6	18555.00	42.3 AV	54.0	-11.7	1.21 H	201	49.3	-7.0
7	#24740.00	57.1 PK	88.2	-31.1	1.83 H	177	58.6	-1.5
8	#24740.00	43.4 AV	68.2	-24.8	1.83 H	177	44.9	-1.5

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	*6185.00	107.7 PK			2.57 V	100	105.7	2.0
2	*6185.00	98.0 AV			2.57 V	100	96.0	2.0
3	12370.00	46.5 PK	74.0	-27.5	1.72 V	106	36.5	10.0
4	12370.00	36.5 AV	54.0	-17.5	1.72 V	106	26.5	10.0
5	18555.00	50.9 PK	74.0	-23.1	1.52 V	46	57.9	-7.0
6	18555.00	40.6 AV	54.0	-13.4	1.52 V	46	47.6	-7.0
7	#24740.00	54.9 PK	88.2	-33.3	2.57 V	164	56.4	-1.5
8	#24740.00	43.4 AV	68.2	-24.8	2.57 V	164	44.9	-1.5

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 79 : 6345 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6345.00	106.3 PK			2.22 H	101	103.4	2.9
2	*6345.00	96.2 AV			2.22 H	101	93.3	2.9
3	12690.00	46.5 PK	74.0	-27.5	1.57 H	128	36.2	10.3
4	12690.00	35.8 AV	54.0	-18.2	1.57 H	128	25.5	10.3
5	19035.00	55.8 PK	74.0	-18.2	1.25 H	215	62.4	-6.6
6	19035.00	42.4 AV	54.0	-11.6	1.25 H	215	49.0	-6.6
7	#25380.00	56.8 PK	88.2	-31.4	1.80 H	168	58.2	-1.4
8	#25380.00	43.4 AV	68.2	-24.8	1.80 H	168	44.8	-1.4

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	*6345.00	107.6 PK			2.63 V	105	104.7	2.9
2	*6345.00	97.7 AV			2.63 V	105	94.8	2.9
3	12690.00	46.7 PK	74.0	-27.3	1.71 V	105	36.4	10.3
4	12690.00	36.8 AV	54.0	-17.2	1.71 V	105	26.5	10.3
5	19035.00	51.7 PK	74.0	-22.3	1.46 V	38	58.3	-6.6
6	19035.00	41.2 AV	54.0	-12.8	1.46 V	38	47.8	-6.6
7	#25380.00	54.8 PK	88.2	-33.4	2.51 V	180	56.2	-1.4
8	#25380.00	43.7 AV	68.2	-24.5	2.51 V	180	45.1	-1.4

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 111 : 6505 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6505.00	106.3 PK			2.22 H	104	103.0	3.3
2	*6505.00	96.5 AV			2.22 H	104	93.2	3.3
3	#13010.00	47.0 PK	88.2	-41.2	1.54 H	129	36.4	10.6
4	#13010.00	35.9 AV	68.2	-32.3	1.54 H	129	25.3	10.6
5	19515.00	55.4 PK	74.0	-18.6	1.16 H	211	61.6	-6.2
6	19515.00	42.2 AV	54.0	-11.8	1.16 H	211	48.4	-6.2
7	#26020.00	57.7 PK	88.2	-30.5	1.88 H	186	58.7	-1.0
8	#26020.00	43.8 AV	68.2	-24.4	1.88 H	186	44.8	-1.0

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	*6505.00	107.3 PK			2.52 V	95	104.0	3.3
2	*6505.00	97.8 AV			2.52 V	95	94.5	3.3
3	#13010.00	46.9 PK	88.2	-41.3	1.70 V	97	36.3	10.6
4	#13010.00	36.7 AV	68.2	-31.5	1.70 V	97	26.1	10.6
5	19515.00	50.4 PK	74.0	-23.6	1.55 V	36	56.6	-6.2
6	19515.00	40.2 AV	54.0	-13.8	1.55 V	36	46.4	-6.2
7	#26020.00	54.8 PK	88.2	-33.4	2.57 V	155	55.8	-1.0
8	#26020.00	43.2 AV	68.2	-25.0	2.57 V	155	44.2	-1.0

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 143 : 6665 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6665.00	106.2 PK			2.25 H	99	102.4	3.8
2	*6665.00	96.3 AV			2.25 H	99	92.5	3.8
3	13330.00	46.9 PK	74.0	-27.1	1.60 H	118	35.2	11.7
4	13330.00	36.0 AV	54.0	-18.0	1.60 H	118	24.3	11.7
5	19995.00	55.8 PK	74.0	-18.2	1.29 H	226	61.4	-5.6
6	19995.00	42.7 AV	54.0	-11.3	1.29 H	226	48.3	-5.6
7	#26660.00	56.5 PK	88.2	-31.7	1.84 H	158	57.2	-0.7
8	#26660.00	43.3 AV	68.2	-24.9	1.84 H	158	44.0	-0.7

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	*6665.00	107.1 PK			2.55 V	97	103.3	3.8
2	*6665.00	97.7 AV			2.55 V	97	93.9	3.8
3	13330.00	46.7 PK	74.0	-27.3	1.75 V	118	35.0	11.7
4	13330.00	36.8 AV	54.0	-17.2	1.75 V	118	25.1	11.7
5	19995.00	50.8 PK	74.0	-23.2	1.58 V	55	56.4	-5.6
6	19995.00	40.4 AV	54.0	-13.6	1.58 V	55	46.0	-5.6
7	#26660.00	55.1 PK	88.2	-33.1	2.63 V	165	55.8	-0.7
8	#26660.00	43.7 AV	68.2	-24.5	2.63 V	165	44.4	-0.7

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 175 : 6825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6825.00	106.4 PK			2.21 H	91	102.5	3.9
2	*6825.00	96.3 AV			2.21 H	91	92.4	3.9
3	#13650.00	46.8 PK	88.2	-41.4	1.51 H	138	33.9	12.9
4	#13650.00	35.5 AV	68.2	-32.7	1.51 H	138	22.6	12.9
5	20475.00	55.3 PK	74.0	-18.7	1.16 H	205	60.1	-4.8
6	20475.00	42.1 AV	54.0	-11.9	1.16 H	205	46.9	-4.8
7	#27300.00	57.5 PK	88.2	-30.7	1.86 H	187	58.5	-1.0
8	#27300.00	43.5 AV	68.2	-24.7	1.86 H	187	44.5	-1.0

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	*6825.00	107.5 PK			2.52 V	109	103.6	3.9
2	*6825.00	98.1 AV			2.52 V	109	94.2	3.9
3	#13650.00	47.1 PK	88.2	-41.1	1.65 V	102	34.2	12.9
4	#13650.00	37.1 AV	68.2	-31.1	1.65 V	102	24.2	12.9
5	20475.00	50.2 PK	74.0	-23.8	1.54 V	24	55.0	-4.8
6	20475.00	40.1 AV	54.0	-13.9	1.54 V	24	44.9	-4.8
7	#27300.00	54.4 PK	88.2	-33.8	2.52 V	157	55.4	-1.0
8	#27300.00	42.8 AV	68.2	-25.4	2.52 V	157	43.8	-1.0

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 207 : 6985 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6985.00	102.1 PK			2.14 H	103	96.9	5.2
2	*6985.00	91.9 AV			2.14 H	103	86.7	5.2
3	#7125.00	69.7 PK	88.2	-18.5	2.14 H	103	64.0	5.7
4	#7125.00	57.6 AV	68.2	-10.6	2.14 H	103	51.9	5.7
5	#7141.30	73.6 PK	88.2	-14.6	2.14 H	103	67.8	5.8
6	#7141.30	56.9 AV	68.2	-11.3	2.14 H	103	51.1	5.8
7	#13970.00	47.2 PK	88.2	-41.0	1.51 H	124	34.1	13.1
8	#13970.00	36.0 AV	68.2	-32.2	1.51 H	124	22.9	13.1
9	20955.00	55.5 PK	74.0	-18.5	1.14 H	196	59.6	-4.1
10	20955.00	42.2 AV	54.0	-11.8	1.14 H	196	46.3	-4.1
11	#27940.00	56.9 PK	88.2	-31.3	1.80 H	171	58.0	-1.1
12	#27940.00	43.1 AV	68.2	-25.1	1.80 H	171	44.2	-1.1

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	*6985.00	110.7 PK			2.45 V	107	105.5	5.2
2	*6985.00	100.3 AV			2.45 V	107	95.1	5.2
3	#7125.00	78.9 PK	88.2	-9.3	2.45 V	107	73.2	5.7
4	#7125.00	67.9 AV	68.2	-0.3	2.45 V	107	62.2	5.7
5	#7141.90	85.1 PK	88.2	-3.1	2.45 V	107	79.3	5.8
6	#7141.90	67.0 AV	68.2	-1.2	2.45 V	107	61.2	5.8
7	#13970.00	46.9 PK	88.2	-41.3	1.75 V	131	33.8	13.1
8	#13970.00	36.8 AV	68.2	-31.4	1.75 V	131	23.7	13.1
9	20955.00	51.0 PK	74.0	-23.0	1.60 V	55	55.1	-4.1
10	20955.00	40.5 AV	54.0	-13.5	1.60 V	55	44.6	-4.1
11	#27940.00	54.6 PK	88.2	-33.6	2.67 V	156	55.7	-1.1
12	#27940.00	43.3 AV	68.2	-24.9	2.67 V	156	44.4	-1.1

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 1 : 5955 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	#5913.00	81.3 PK	88.2	-6.9	2.18 H	82	79.9	1.4
2	#5913.00	56.3 AV	68.2	-11.9	2.18 H	82	54.9	1.4
3	*5955.00	122.9 PK			2.18 H	82	121.4	1.5
4	*5955.00	113.5 AV			2.18 H	82	112.0	1.5
5	11910.00	60.1 PK	74.0	-13.9	1.50 H	98	49.2	10.9
6	11910.00	47.7 AV	54.0	-6.3	1.50 H	98	36.8	10.9
7	17865.00	55.7 PK	74.0	-18.3	1.37 H	208	34.1	21.6
8	17865.00	43.8 AV	54.0	-10.2	1.37 H	208	22.2	21.6
9	23820.00	57.6 PK	74.0	-16.4	1.74 H	143	60.0	-2.4
10	23820.00	45.3 AV	54.0	-8.7	1.74 H	143	47.7	-2.4

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	#5912.40	78.9 PK	88.2	-9.3	2.63 V	106	77.5	1.4
2	#5912.40	51.7 AV	68.2	-16.5	2.63 V	106	50.3	1.4
3	*5955.00	122.2 PK			2.63 V	106	120.7	1.5
4	*5955.00	113.2 AV			2.63 V	106	111.7	1.5
5	11910.00	66.2 PK	74.0	-7.8	1.82 V	105	55.3	10.9
6	11910.00	53.5 AV	54.0	-0.5	1.82 V	105	42.6	10.9
7	17865.00	56.2 PK	74.0	-17.8	1.41 V	26	34.6	21.6
8	17865.00	44.5 AV	54.0	-9.5	1.41 V	26	22.9	21.6
9	23820.00	57.3 PK	74.0	-16.7	2.71 V	94	59.7	-2.4
10	23820.00	45.3 AV	54.0	-8.7	2.71 V	94	47.7	-2.4

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 93 : 6415 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6415.00	122.8 PK			2.14 H	82	119.9	2.9
2	*6415.00	113.0 AV			2.14 H	82	110.1	2.9
3	#12830.00	60.4 PK	88.2	-27.8	1.52 H	89	49.9	10.5
4	#12830.00	47.8 AV	68.2	-20.4	1.52 H	89	37.3	10.5
5	19245.00	55.8 PK	74.0	-18.2	1.40 H	203	62.3	-6.5
6	19245.00	43.7 AV	54.0	-10.3	1.40 H	203	50.2	-6.5
7	#25660.00	57.4 PK	88.2	-30.8	1.69 H	129	58.6	-1.2
8	#25660.00	45.0 AV	68.2	-23.2	1.69 H	129	46.2	-1.2

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	*6415.00	122.0 PK			2.67 V	91	119.1	2.9
2	*6415.00	112.6 AV			2.67 V	91	109.7	2.9
3	#12830.00	66.3 PK	88.2	-21.9	1.82 V	106	55.8	10.5
4	#12830.00	53.3 AV	68.2	-14.9	1.82 V	106	42.8	10.5
5	19245.00	56.4 PK	74.0	-17.6	1.43 V	27	62.9	-6.5
6	19245.00	45.0 AV	54.0	-9.0	1.43 V	27	51.5	-6.5
7	#25660.00	57.1 PK	88.2	-31.1	2.66 V	96	58.3	-1.2
8	#25660.00	45.3 AV	68.2	-22.9	2.66 V	96	46.5	-1.2

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 97 : 6435 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6435.00	122.7 PK			2.14 H	83	119.8	2.9
2	*6435.00	112.8 AV			2.14 H	83	109.9	2.9
3	#12870.00	59.9 PK	88.2	-28.3	1.44 H	83	49.4	10.5
4	#12870.00	47.3 AV	68.2	-20.9	1.44 H	83	36.8	10.5
5	19305.00	55.7 PK	74.0	-18.3	1.41 H	209	62.5	-6.8
6	19305.00	43.6 AV	54.0	-10.4	1.41 H	209	50.4	-6.8
7	#25740.00	58.0 PK	88.2	-30.2	1.72 H	159	59.2	-1.2
8	#25740.00	45.6 AV	68.2	-22.6	1.72 H	159	46.8	-1.2

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	*6435.00	121.6 PK			2.64 V	82	118.7	2.9
2	*6435.00	112.2 AV			2.64 V	82	109.3	2.9
3	#12870.00	66.7 PK	88.2	-21.5	1.88 V	119	56.2	10.5
4	#12870.00	53.9 AV	68.2	-14.3	1.88 V	119	43.4	10.5
5	19305.00	56.1 PK	74.0	-17.9	1.39 V	25	62.9	-6.8
6	19305.00	44.6 AV	54.0	-9.4	1.39 V	25	51.4	-6.8
7	#25740.00	57.7 PK	88.2	-30.5	2.66 V	78	58.9	-1.2
8	#25740.00	45.5 AV	68.2	-22.7	2.66 V	78	46.7	-1.2

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 117 : 6535 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6535.00	122.8 PK			2.15 H	78	119.3	3.5
2	*6535.00	113.1 AV			2.15 H	78	109.6	3.5
3	#13070.00	59.9 PK	88.2	-28.3	1.54 H	93	49.1	10.8
4	#13070.00	47.2 AV	68.2	-21.0	1.54 H	93	36.4	10.8
5	19605.00	55.9 PK	74.0	-18.1	1.33 H	200	61.9	-6.0
6	19605.00	44.0 AV	54.0	-10.0	1.33 H	200	50.0	-6.0
7	#26140.00	57.0 PK	88.2	-31.2	1.77 H	153	57.9	-0.9
8	#26140.00	45.0 AV	68.2	-23.2	1.77 H	153	45.9	-0.9

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	*6535.00	121.5 PK			2.71 V	100	118.0	3.5
2	*6535.00	112.3 AV			2.71 V	100	108.8	3.5
3	#13070.00	66.3 PK	88.2	-21.9	1.87 V	108	55.5	10.8
4	#13070.00	53.6 AV	68.2	-14.6	1.87 V	108	42.8	10.8
5	19605.00	56.1 PK	74.0	-17.9	1.35 V	30	62.1	-6.0
6	19605.00	44.6 AV	54.0	-9.4	1.35 V	30	50.6	-6.0
7	#26140.00	57.1 PK	88.2	-31.1	2.72 V	82	58.0	-0.9
8	#26140.00	45.4 AV	68.2	-22.8	2.72 V	82	46.3	-0.9

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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 181 : 6855 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6855.00	122.8 PK			2.14 H	93	118.8	4.0
2	*6855.00	112.8 AV			2.14 H	93	108.8	4.0
3	#13710.00	60.6 PK	88.2	-27.6	1.51 H	106	47.8	12.8
4	#13710.00	48.1 AV	68.2	-20.1	1.51 H	106	35.3	12.8
5	20565.00	55.5 PK	74.0	-18.5	1.35 H	211	60.2	-4.7
6	20565.00	43.9 AV	54.0	-10.1	1.35 H	211	48.6	-4.7
7	#27420.00	57.7 PK	88.2	-30.5	1.75 H	152	58.6	-0.9
8	#27420.00	45.6 AV	68.2	-22.6	1.75 H	152	46.5	-0.9

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	*6855.00	121.4 PK			2.67 V	108	117.4	4.0
2	*6855.00	111.9 AV			2.67 V	108	107.9	4.0
3	#13710.00	66.2 PK	88.2	-22.0	1.85 V	113	53.4	12.8
4	#13710.00	53.5 AV	68.2	-14.7	1.85 V	113	40.7	12.8
5	20565.00	56.6 PK	74.0	-17.4	1.35 V	27	61.3	-4.7
6	20565.00	44.8 AV	54.0	-9.2	1.35 V	27	49.5	-4.7
7	#27420.00	58.2 PK	88.2	-30.0	2.60 V	90	59.1	-0.9
8	#27420.00	46.0 AV	68.2	-22.2	2.60 V	90	46.9	-0.9

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.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 233 : 7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*7115.00	84.3 PK			1.93 H	82	78.7	5.6
2	*7115.00	73.7 AV			1.93 H	82	68.1	5.6
3	#7125.00	68.8 PK	88.2	-19.4	1.93 H	82	63.1	5.7
4	#7125.00	59.9 AV	68.2	-8.3	1.93 H	82	54.2	5.7
5	#14230.00	47.9 PK	88.2	-40.3	1.51 H	111	34.4	13.5
6	#14230.00	37.7 AV	68.2	-30.5	1.51 H	111	24.2	13.5
7	21345.00	45.6 PK	74.0	-28.4	1.35 H	205	49.4	-3.8
8	21345.00	34.0 AV	54.0	-20.0	1.35 H	205	37.8	-3.8
9	#28460.00	47.9 PK	88.2	-40.3	1.78 H	166	49.2	-1.3
10	#28460.00	36.2 AV	68.2	-32.0	1.78 H	166	37.5	-1.3

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	*7115.00	91.7 PK			2.34 V	104	86.1	5.6
2	*7115.00	81.9 AV			2.34 V	104	76.3	5.6
3	#7125.00	81.1 PK	88.2	-7.1	2.34 V	104	75.4	5.7
4	#7125.00	68.0 AV	68.2	-0.2	2.34 V	104	62.3	5.7
5	#14230.00	48.0 PK	88.2	-40.2	1.83 V	107	34.5	13.5
6	#14230.00	37.8 AV	68.2	-30.4	1.83 V	107	24.3	13.5
7	21345.00	45.8 PK	74.0	-28.2	1.39 V	21	49.6	-3.8
8	21345.00	34.2 AV	54.0	-19.8	1.39 V	21	38.0	-3.8
9	#28460.00	48.4 PK	88.2	-39.8	2.61 V	94	49.7	-1.3
10	#28460.00	36.6 AV	68.2	-31.6	2.61 V	94	37.9	-1.3

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 233 : 7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*7115.00	87.3 PK			2.00 H	81	81.7	5.6
2	*7115.00	75.9 AV			2.00 H	81	70.3	5.6
3	#7125.00	73.5 PK	88.2	-14.7	2.00 H	81	67.8	5.7
4	#7125.00	61.3 AV	68.2	-6.9	2.00 H	81	55.6	5.7
5	#14230.00	48.1 PK	88.2	-40.1	1.49 H	119	34.6	13.5
6	#14230.00	37.7 AV	68.2	-30.5	1.49 H	119	24.2	13.5
7	21345.00	45.6 PK	74.0	-28.4	1.36 H	217	49.4	-3.8
8	21345.00	33.8 AV	54.0	-20.2	1.36 H	217	37.6	-3.8
9	#28460.00	48.0 PK	88.2	-40.2	1.75 H	153	49.3	-1.3
10	#28460.00	36.2 AV	68.2	-32.0	1.75 H	153	37.5	-1.3

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	*7115.00	92.5 PK			2.29 V	105	86.9	5.6
2	*7115.00	81.8 AV			2.29 V	105	76.2	5.6
3	#7125.00	78.4 PK	88.2	-9.8	2.29 V	105	72.7	5.7
4	#7125.00	67.8 AV	68.2	-0.4	2.29 V	105	62.1	5.7
5	#14230.00	47.4 PK	88.2	-40.8	1.86 V	114	33.9	13.5
6	#14230.00	37.4 AV	68.2	-30.8	1.86 V	114	23.9	13.5
7	21345.00	46.0 PK	74.0	-28.0	1.35 V	7	49.8	-3.8
8	21345.00	34.4 AV	54.0	-19.6	1.35 V	7	38.2	-3.8
9	#28460.00	48.2 PK	88.2	-40.0	2.56 V	93	49.5	-1.3
10	#28460.00	36.3 AV	68.2	-31.9	2.56 V	93	37.6	-1.3

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 1 : 5955 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	#5925.00	73.8 PK	88.2	-14.4	2.15 H	83	72.4	1.4
2	#5925.00	54.8 AV	68.2	-13.4	2.15 H	83	53.4	1.4
3	*5955.00	118.3 PK			2.15 H	83	116.8	1.5
4	*5955.00	107.6 AV			2.15 H	83	106.1	1.5
5	11910.00	60.7 PK	74.0	-13.3	1.46 H	95	49.8	10.9
6	11910.00	48.1 AV	54.0	-5.9	1.46 H	95	37.2	10.9
7	17865.00	55.9 PK	74.0	-18.1	1.39 H	216	34.3	21.6
8	17865.00	44.2 AV	54.0	-9.8	1.39 H	216	22.6	21.6
9	23820.00	57.0 PK	74.0	-17.0	1.79 H	145	59.4	-2.4
10	23820.00	45.2 AV	54.0	-8.8	1.79 H	145	47.6	-2.4

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	#5925.00	71.2 PK	88.2	-17.0	2.61 V	109	69.8	1.4
2	#5925.00	52.5 AV	68.2	-15.7	2.61 V	109	51.1	1.4
3	*5955.00	118.3 PK			2.61 V	109	116.8	1.5
4	*5955.00	107.0 AV			2.61 V	109	105.5	1.5
5	11910.00	66.6 PK	74.0	-7.4	1.91 V	111	55.7	10.9
6	11910.00	53.8 AV	54.0	-0.2	1.91 V	111	42.9	10.9
7	17865.00	56.8 PK	74.0	-17.2	1.36 V	38	35.2	21.6
8	17865.00	45.2 AV	54.0	-8.8	1.36 V	38	23.6	21.6
9	23820.00	58.6 PK	74.0	-15.4	2.58 V	105	61.0	-2.4
10	23820.00	46.4 AV	54.0	-7.6	2.58 V	105	48.8	-2.4

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 93 : 6415 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6415.00	118.4 PK			2.19 H	87	115.5	2.9
2	*6415.00	107.6 AV			2.19 H	87	104.7	2.9
3	#12830.00	59.8 PK	88.2	-28.4	1.50 H	101	49.3	10.5
4	#12830.00	47.6 AV	68.2	-20.6	1.50 H	101	37.1	10.5
5	19245.00	55.5 PK	74.0	-18.5	1.34 H	216	62.0	-6.5
6	19245.00	43.8 AV	54.0	-10.2	1.34 H	216	50.3	-6.5
7	#25660.00	57.4 PK	88.2	-30.8	1.71 H	157	58.6	-1.2
8	#25660.00	45.6 AV	68.2	-22.6	1.71 H	157	46.8	-1.2

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	*6415.00	118.5 PK			2.64 V	99	115.6	2.9
2	*6415.00	107.1 AV			2.64 V	99	104.2	2.9
3	#12830.00	66.1 PK	88.2	-22.1	1.83 V	98	55.6	10.5
4	#12830.00	53.7 AV	68.2	-14.5	1.83 V	98	43.2	10.5
5	19245.00	56.4 PK	74.0	-17.6	1.35 V	26	62.9	-6.5
6	19245.00	44.8 AV	54.0	-9.2	1.35 V	26	51.3	-6.5
7	#25660.00	57.7 PK	88.2	-30.5	2.56 V	77	58.9	-1.2
8	#25660.00	45.7 AV	68.2	-22.5	2.56 V	77	46.9	-1.2

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 97 : 6435 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6435.00	118.0 PK			2.13 H	70	115.1	2.9
2	*6435.00	107.5 AV			2.13 H	70	104.6	2.9
3	#12870.00	60.9 PK	88.2	-27.3	1.54 H	103	50.4	10.5
4	#12870.00	48.5 AV	68.2	-19.7	1.54 H	103	38.0	10.5
5	19305.00	55.6 PK	74.0	-18.4	1.37 H	212	62.4	-6.8
6	19305.00	44.1 AV	54.0	-9.9	1.37 H	212	50.9	-6.8
7	#25740.00	57.7 PK	88.2	-30.5	1.80 H	161	58.9	-1.2
8	#25740.00	45.8 AV	68.2	-22.4	1.80 H	161	47.0	-1.2

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	*6435.00	118.7 PK			2.62 V	107	115.8	2.9
2	*6435.00	107.5 AV			2.62 V	107	104.6	2.9
3	#12870.00	66.5 PK	88.2	-21.7	1.89 V	129	56.0	10.5
4	#12870.00	53.8 AV	68.2	-14.4	1.89 V	129	43.3	10.5
5	19305.00	56.3 PK	74.0	-17.7	1.41 V	42	63.1	-6.8
6	19305.00	44.4 AV	54.0	-9.6	1.41 V	42	51.2	-6.8
7	#25740.00	57.6 PK	88.2	-30.6	2.63 V	80	58.8	-1.2
8	#25740.00	45.5 AV	68.2	-22.7	2.63 V	80	46.7	-1.2

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 117 : 6535 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6535.00	118.0 PK			2.22 H	94	114.5	3.5
2	*6535.00	107.2 AV			2.22 H	94	103.7	3.5
3	#13070.00	61.0 PK	88.2	-27.2	1.54 H	109	50.2	10.8
4	#13070.00	48.3 AV	68.2	-19.9	1.54 H	109	37.5	10.8
5	19605.00	55.0 PK	74.0	-19.0	1.29 H	196	61.0	-6.0
6	19605.00	43.5 AV	54.0	-10.5	1.29 H	196	49.5	-6.0
7	#26140.00	57.9 PK	88.2	-30.3	1.75 H	153	58.8	-0.9
8	#26140.00	45.9 AV	68.2	-22.3	1.75 H	153	46.8	-0.9

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	*6535.00	119.1 PK			2.69 V	113	115.6	3.5
2	*6535.00	107.5 AV			2.69 V	113	104.0	3.5
3	#13070.00	66.2 PK	88.2	-22.0	1.84 V	106	55.4	10.8
4	#13070.00	53.6 AV	68.2	-14.6	1.84 V	106	42.8	10.8
5	19605.00	56.4 PK	74.0	-17.6	1.32 V	37	62.4	-6.0
6	19605.00	44.6 AV	54.0	-9.4	1.32 V	37	50.6	-6.0
7	#26140.00	57.9 PK	88.2	-30.3	2.55 V	105	58.8	-0.9
8	#26140.00	45.9 AV	68.2	-22.3	2.55 V	105	46.8	-0.9

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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 181 : 6855 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6855.00	117.9 PK			2.09 H	99	113.9	4.0
2	*6855.00	107.2 AV			2.09 H	99	103.2	4.0
3	#13710.00	61.1 PK	88.2	-27.1	1.55 H	91	48.3	12.8
4	#13710.00	48.3 AV	68.2	-19.9	1.55 H	91	35.5	12.8
5	20565.00	55.9 PK	74.0	-18.1	1.34 H	201	60.6	-4.7
6	20565.00	44.2 AV	54.0	-9.8	1.34 H	201	48.9	-4.7
7	#27420.00	58.0 PK	88.2	-30.2	1.73 H	144	58.9	-0.9
8	#27420.00	45.8 AV	68.2	-22.4	1.73 H	144	46.7	-0.9

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	*6855.00	118.6 PK			2.70 V	96	114.6	4.0
2	*6855.00	107.2 AV			2.70 V	96	103.2	4.0
3	#13710.00	66.3 PK	88.2	-21.9	1.84 V	110	53.5	12.8
4	#13710.00	53.4 AV	68.2	-14.8	1.84 V	110	40.6	12.8
5	20565.00	56.9 PK	74.0	-17.1	1.39 V	26	61.6	-4.7
6	20565.00	45.1 AV	54.0	-8.9	1.39 V	26	49.8	-4.7
7	#27420.00	58.3 PK	88.2	-29.9	2.59 V	91	59.2	-0.9
8	#27420.00	46.2 AV	68.2	-22.0	2.59 V	91	47.1	-0.9

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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 233 : 7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
Input Power	120Vac, 60Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*7115.00	84.7 PK			1.98 H	81	79.1	5.6
2	*7115.00	73.9 AV			1.98 H	81	68.3	5.6
3	#7125.00	71.5 PK	88.2	-16.7	1.98 H	81	65.8	5.7
4	#7125.00	62.1 AV	68.2	-6.1	1.98 H	81	56.4	5.7
5	#14230.00	47.6 PK	88.2	-40.6	1.49 H	117	34.1	13.5
6	#14230.00	37.3 AV	68.2	-30.9	1.49 H	117	23.8	13.5
7	21345.00	45.9 PK	74.0	-28.1	1.33 H	218	49.7	-3.8
8	21345.00	34.3 AV	54.0	-19.7	1.33 H	218	38.1	-3.8
9	#28460.00	47.9 PK	88.2	-40.3	1.72 H	158	49.2	-1.3
10	#28460.00	36.3 AV	68.2	-31.9	1.72 H	158	37.6	-1.3

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	*7115.00	90.4 PK			2.29 V	102	84.8	5.6
2	*7115.00	80.0 AV			2.29 V	102	74.4	5.6
3	#7125.00	77.1 PK	88.2	-11.1	2.29 V	102	71.4	5.7
4	#7125.00	68.0 AV	68.2	-0.2	2.29 V	102	62.3	5.7
5	#14230.00	47.9 PK	88.2	-40.3	1.86 V	91	34.4	13.5
6	#14230.00	37.6 AV	68.2	-30.6	1.86 V	91	24.1	13.5
7	21345.00	45.5 PK	74.0	-28.5	1.37 V	37	49.3	-3.8
8	21345.00	34.1 AV	54.0	-19.9	1.37 V	37	37.9	-3.8
9	#28460.00	48.4 PK	88.2	-39.8	2.62 V	90	49.7	-1.3
10	#28460.00	36.8 AV	68.2	-31.4	2.62 V	90	38.1	-1.3

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.
6. " # ": The radiated frequency is out of the restricted band.

For Antenna Set 3

RF Mode	TX 802.11ax (HE160)	Channel	CH 143 : 6665 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 MHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20 °C, 70 % RH
Tested By	Carter Lin		

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	*6665.00	95.9 PK			2.08 H	90	92.1	3.8
2	*6665.00	86.2 AV			2.08 H	90	82.4	3.8
3	13330.00	45.9 PK	74.0	-28.1	1.50 H	128	34.2	11.7
4	13330.00	35.3 AV	54.0	-18.7	1.50 H	128	23.6	11.7
5	19995.00	55.1 PK	74.0	-18.9	1.19 H	220	60.7	-5.6
6	19995.00	42.3 AV	54.0	-11.7	1.19 H	220	47.9	-5.6
7	#26660.00	56.1 PK	88.2	-32.1	1.64 H	138	56.8	-0.7
8	#26660.00	42.8 AV	68.2	-25.4	1.64 H	138	43.5	-0.7

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	*6665.00	96.8 PK			2.75 V	107	93.0	3.8
2	*6665.00	87.2 AV			2.75 V	107	83.4	3.8
3	13330.00	46.5 PK	74.0	-27.5	1.45 V	98	34.8	11.7
4	13330.00	36.5 AV	54.0	-17.5	1.45 V	98	24.8	11.7
5	19995.00	50.2 PK	74.0	-23.8	1.68 V	45	55.8	-5.6
6	19995.00	40.1 AV	54.0	-13.9	1.68 V	45	45.7	-5.6
7	#26660.00	54.7 PK	88.2	-33.5	2.73 V	195	55.4	-0.7
8	#26660.00	43.4 AV	68.2	-24.8	2.73 V	195	44.1	-0.7

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.
6. " # ": The radiated frequency is out of the restricted band.

Below 1GHz Data:

For Antenna Set 2

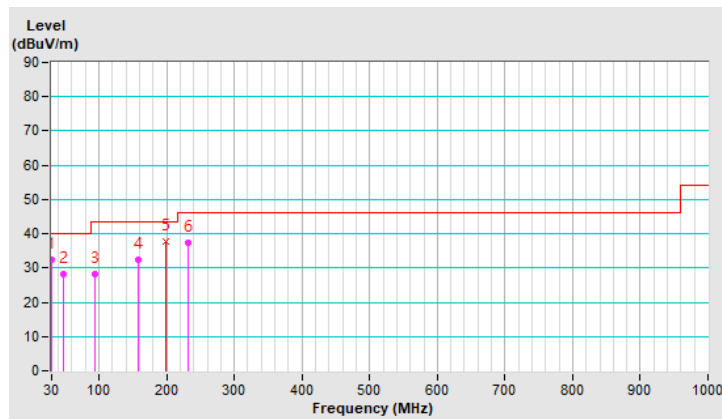
RF Mode	TX 802.11ax (HE160)	Channel	CH 143 : 6665 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Input Power	120Vac, 60Hz	Environmental Conditions	23 °C, 66 % RH
Tested By	Ryan Du		

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	30.28	32.5 QP	40.0	-7.5	1.00 H	163	46.1	-13.6
2	47.78	28.3 QP	40.0	-11.7	1.00 H	224	40.9	-12.6
3	94.85	28.2 QP	43.5	-15.3	1.00 H	259	45.8	-17.6
4	158.95	32.5 QP	43.5	-11.0	1.00 H	225	44.5	-12.0
5	199.02	37.8 QP	43.5	-5.7	1.00 H	299	52.9	-15.1
6	232.57	37.4 QP	46.0	-8.6	1.50 H	311	51.5	-14.1

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 of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

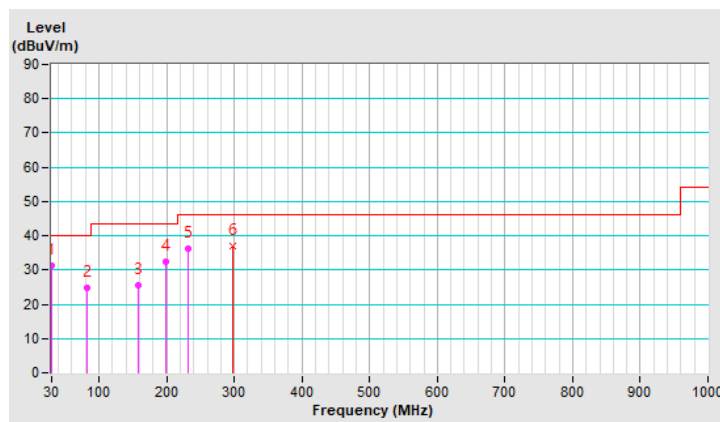


RF Mode	TX 802.11ax (HE160)	Channel	CH 143 : 6665 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Input Power	120Vac, 60Hz	Environmental Conditions	23 °C, 66 % RH
Tested By	Ryan Du		

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	30.19	31.2 QP	40.0	-8.8	1.00 V	223	44.7	-13.5
2	82.82	24.6 QP	40.0	-15.4	1.50 V	231	42.5	-17.9
3	157.98	25.5 QP	43.5	-18.0	1.00 V	289	37.4	-11.9
4	199.32	32.5 QP	43.5	-11.0	2.00 V	251	47.6	-15.1
5	232.62	36.2 QP	46.0	-9.8	1.00 V	316	50.3	-14.1
6	298.31	37.1 QP	46.0	-8.9	1.00 V	157	48.1	-11.0

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 of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



For Antenna Set 3

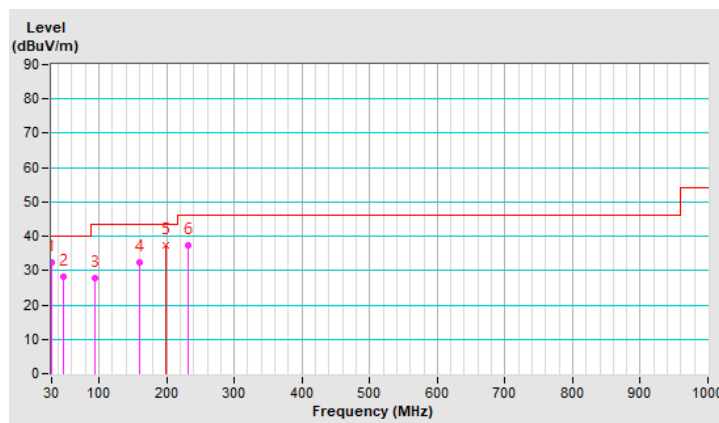
RF Mode	TX 802.11ax (HE160)	Channel	CH 143 : 6665 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66 % RH
Tested By	Ryan Du		

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	30.15	32.3 QP	40.0	-7.7	1.00 H	188	45.8	-13.5
2	47.97	28.1 QP	40.0	-11.9	1.00 H	188	40.7	-12.6
3	94.57	27.9 QP	43.5	-15.6	1.00 H	235	45.6	-17.7
4	159.26	32.3 QP	43.5	-11.2	1.00 H	202	44.3	-12.0
5	199.20	37.5 QP	43.5	-6.0	1.00 H	288	52.6	-15.1
6	232.36	37.2 QP	46.0	-8.8	1.50 H	284	51.4	-14.2

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 of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

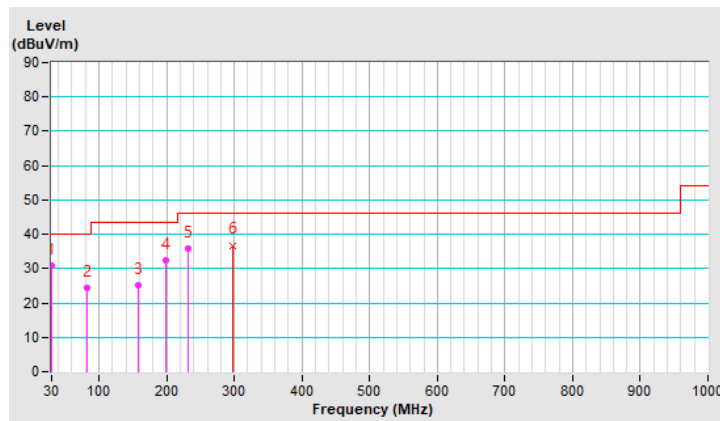


RF Mode	TX 802.11ax (HE160)	Channel	CH 143 : 6665 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66 % RH
Tested By	Ryan Du		

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	30.43	30.9 QP	40.0	-9.1	1.00 V	263	44.5	-13.6
2	82.93	24.4 QP	40.0	-15.6	1.50 V	272	42.3	-17.9
3	157.87	25.2 QP	43.5	-18.3	1.00 V	239	37.1	-11.9
4	199.12	32.3 QP	43.5	-11.2	2.00 V	282	47.4	-15.1
5	232.31	35.7 QP	46.0	-10.3	1.00 V	343	49.9	-14.2
6	298.05	36.8 QP	46.0	-9.2	1.00 V	137	47.8	-11.0

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 of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 In-Band Emission (Mask) Measurement

4.2.1 Limits of In-Band Emission (Mask) Measurement

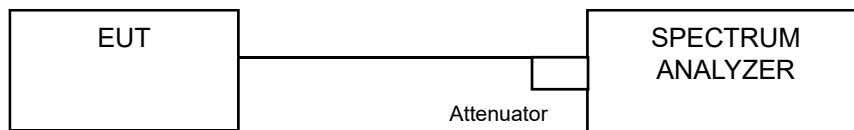
Test Item	Frequencies (MHz)	(X) dBc ^{*1}
Emission Mask	At 1 MHz outside of channel edge	20
	At one channel bandwidth from the channel center ^{*2}	28
	At one- and one-half times the channel bandwidth away from channel center ^{*3}	40
	More than one- and one-half times the channel bandwidth	40

^{*1} :The power spectral density must be suppressed by “x” dB

^{*2} : At frequencies between one megahertz outside an unlicensed device’s channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression,

^{*3} : At frequencies between one and one- and one-half times an unlicensed device’s channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.

4.2.2 Test Setup



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedure

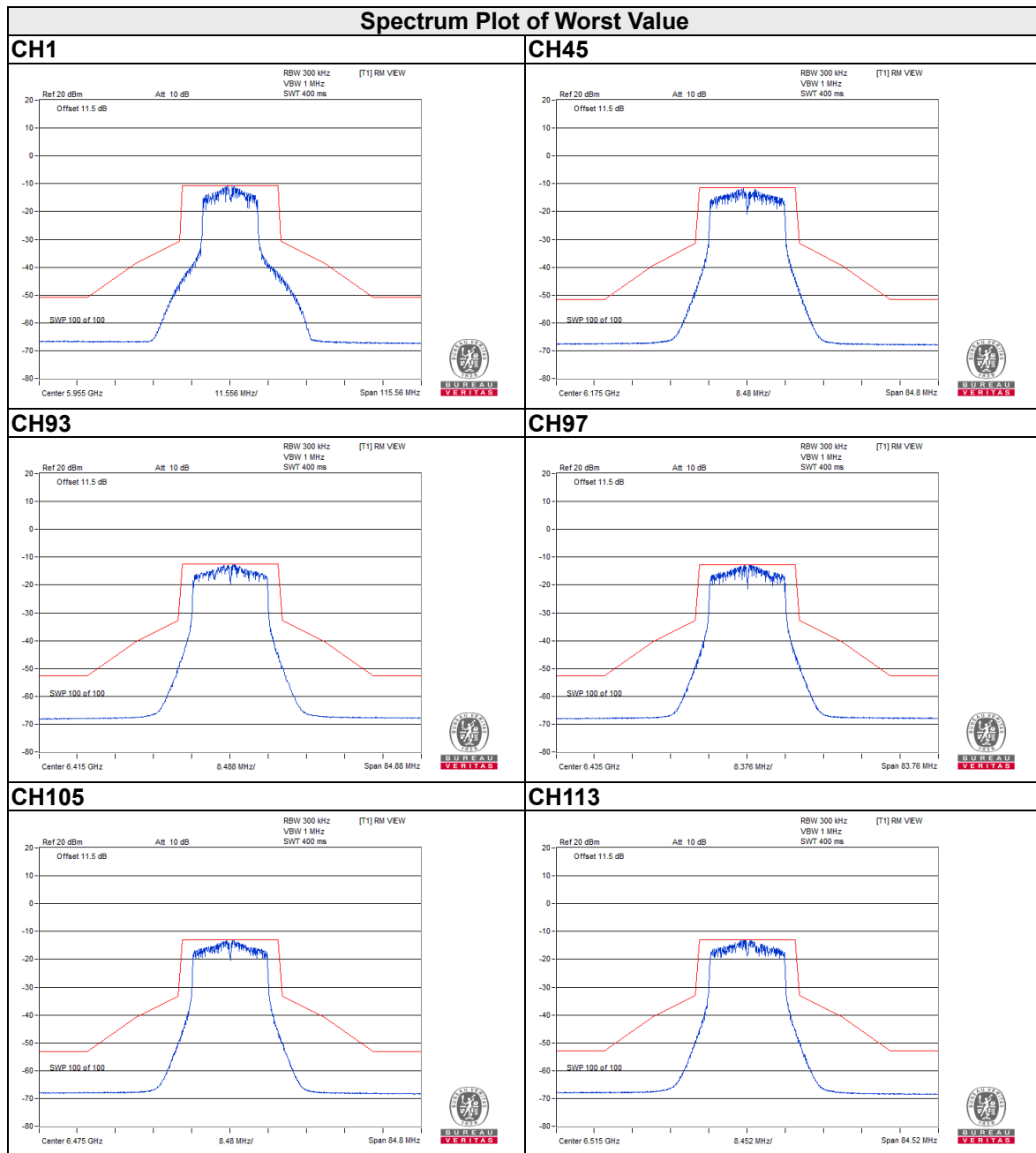
- a. Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.
- b. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (Determine the channel edge.)
- c. Measure the power spectral density (for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
- d. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- e. Adjust the span to encompass the entire mask as necessary and clear trace.
- f. Trace average at least 100 traces in power averaging (rms) mode.
- g. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

4.2.5 EUT Operating Condition

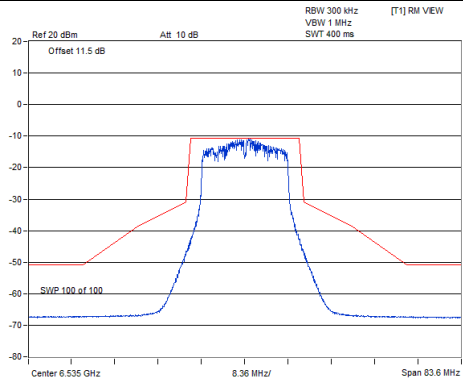
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.2.6 Test Results

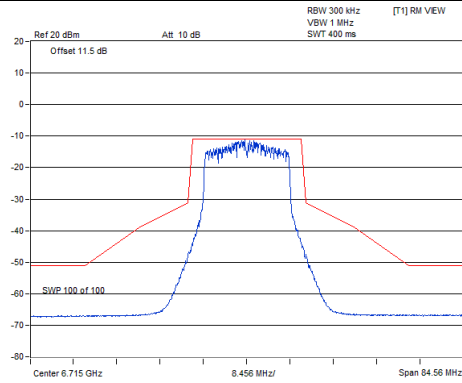
802.11a



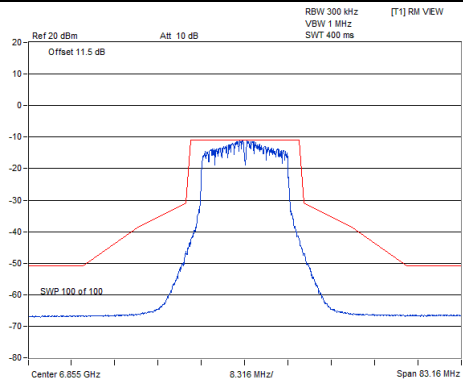
CH117



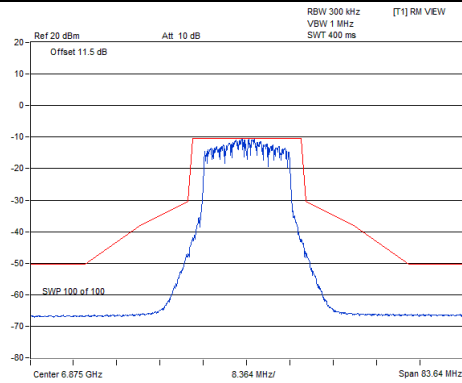
CH153



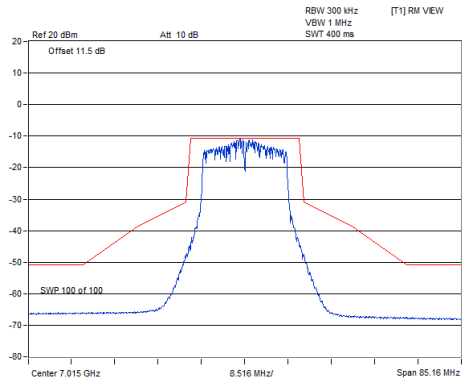
CH181



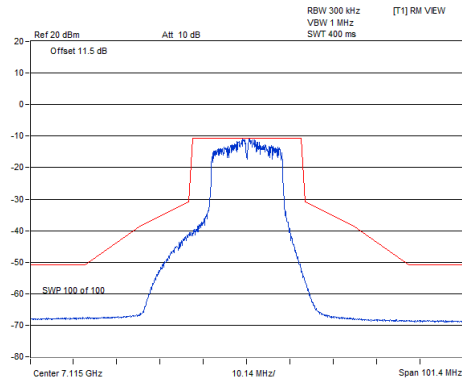
CH185



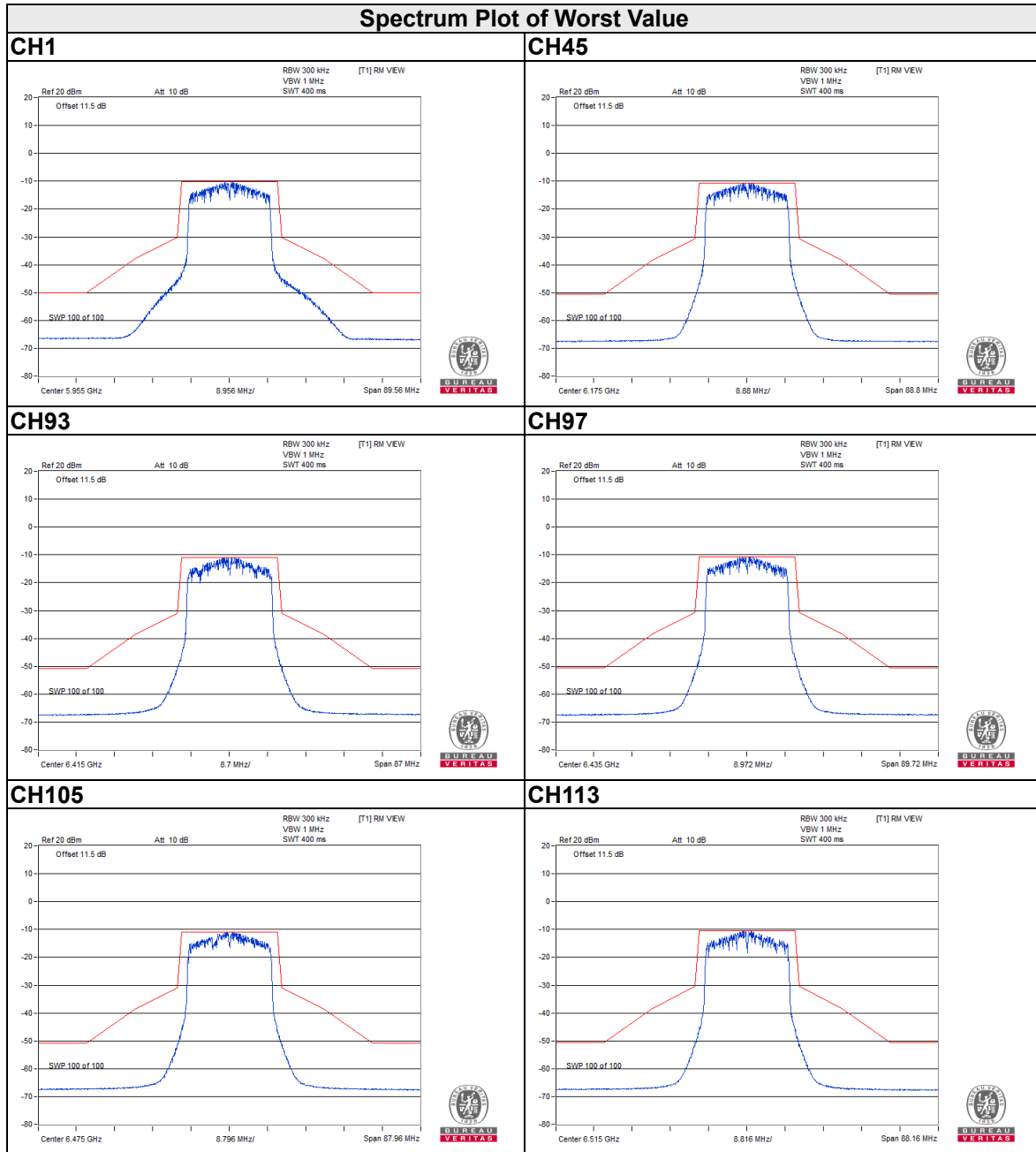
CH213



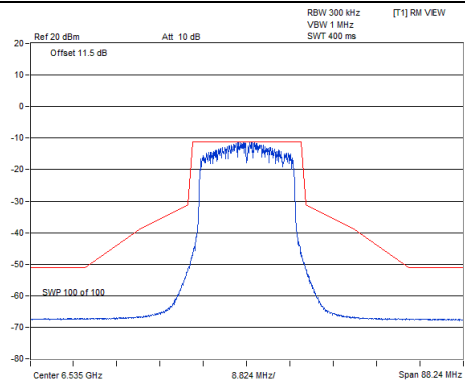
CH233



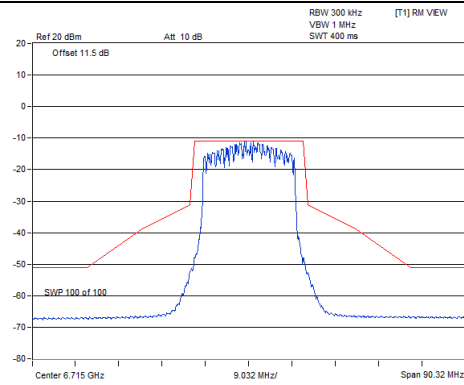
802.11ax (HE20)



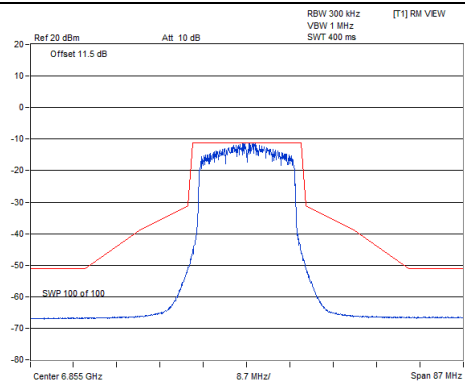
CH117



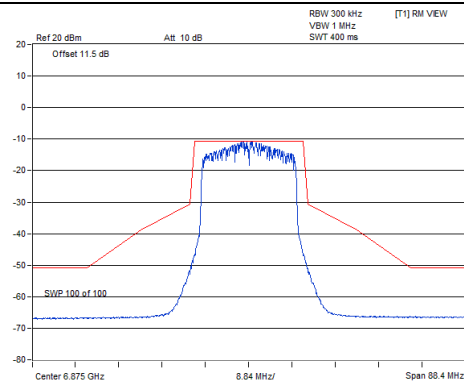
CH153



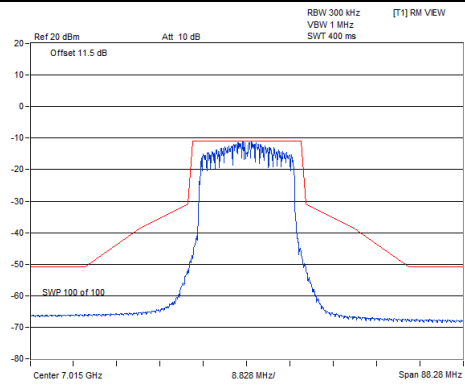
CH181



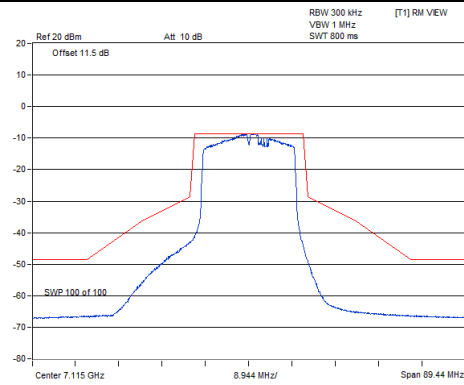
CH185



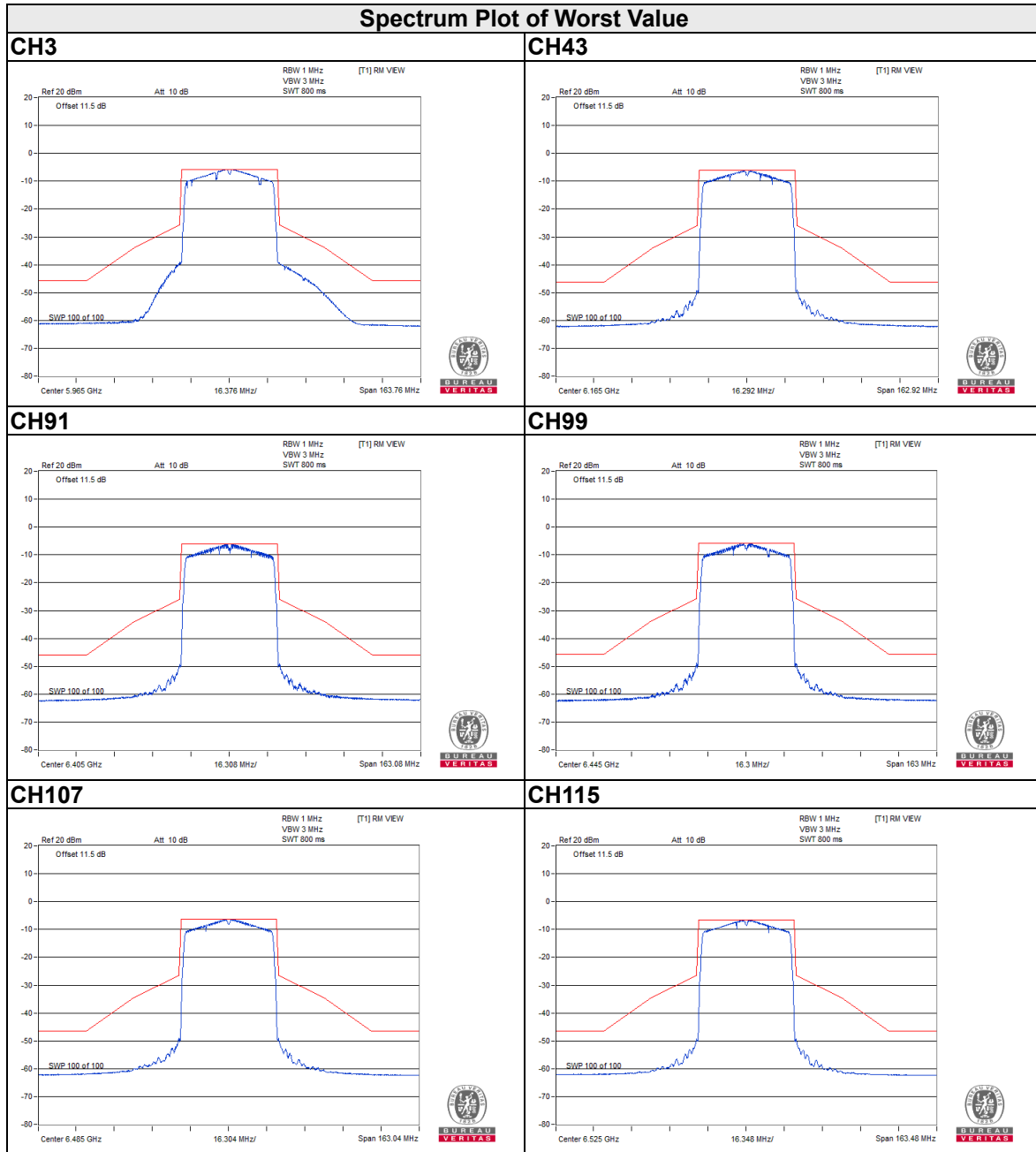
CH213



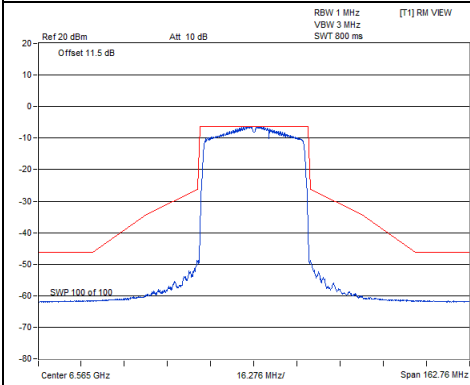
CH233



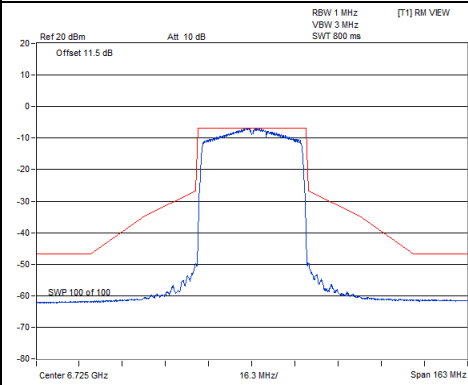
802.11ax (HE40)



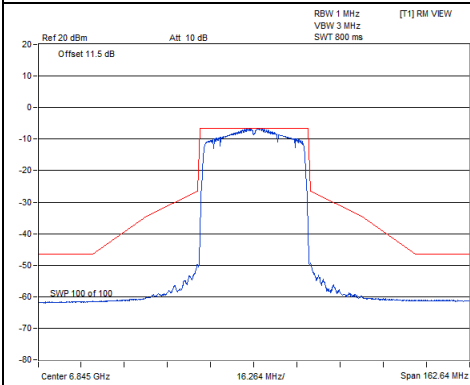
CH123



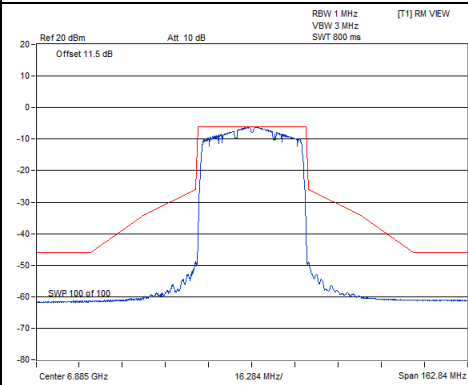
CH155



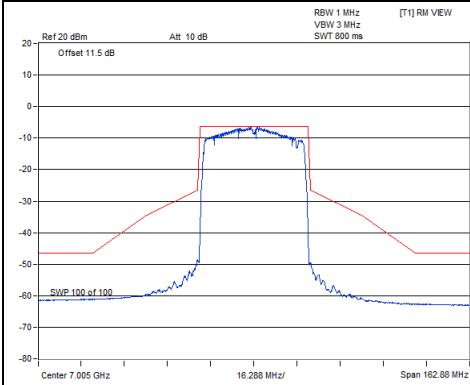
CH179



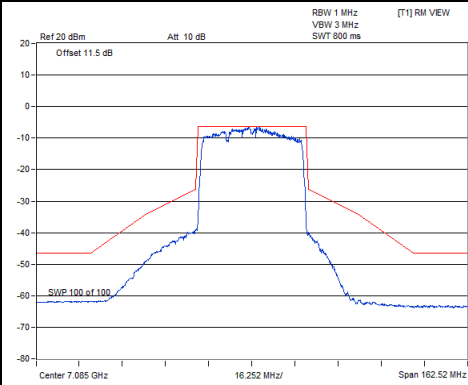
CH187



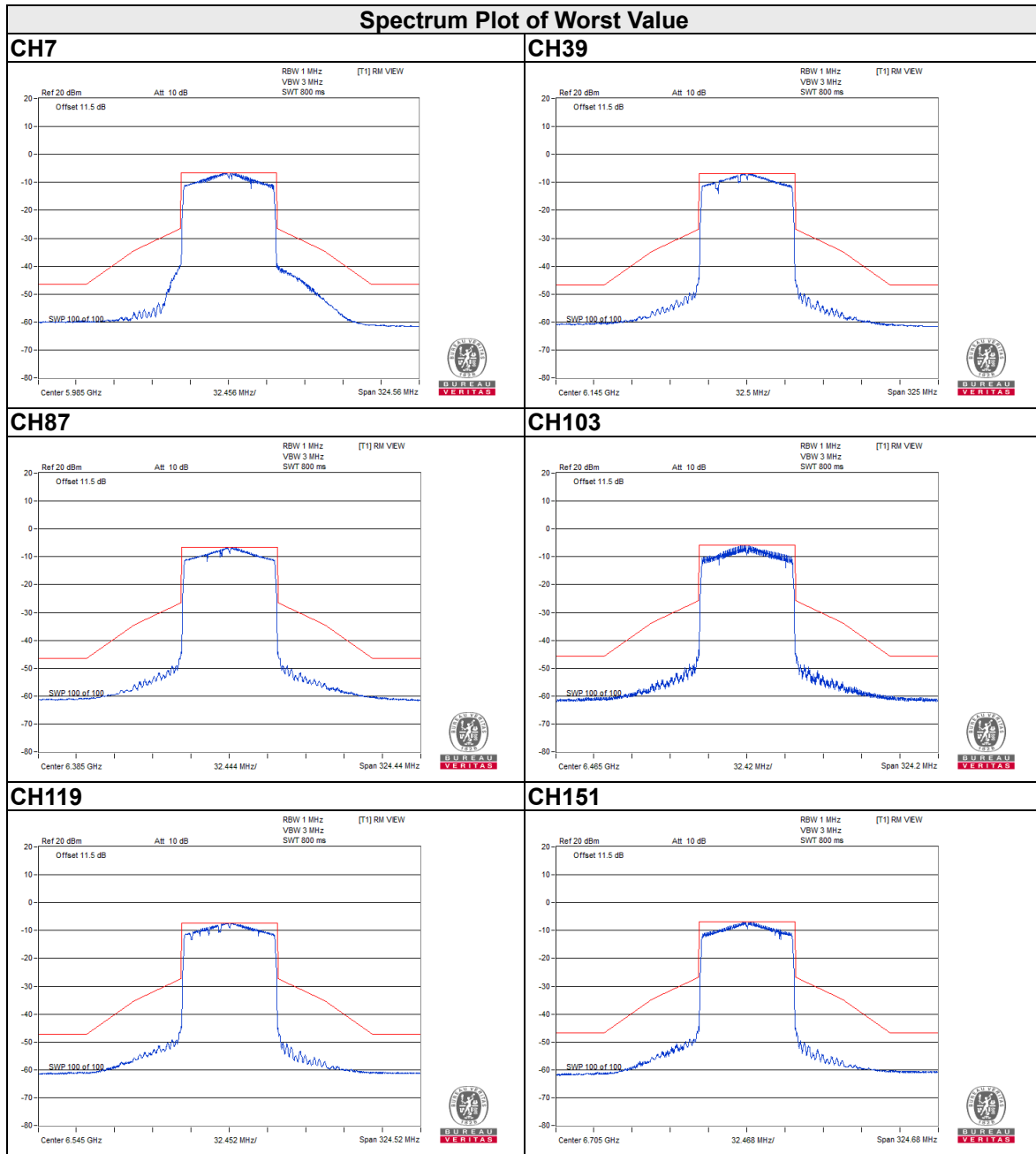
CH211



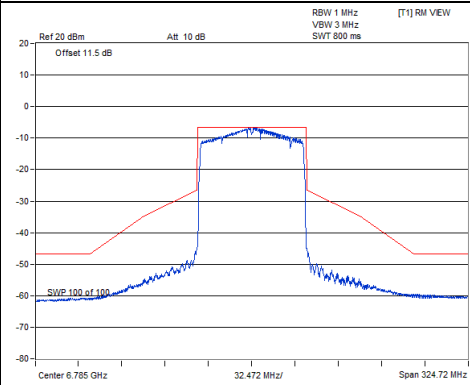
CH227



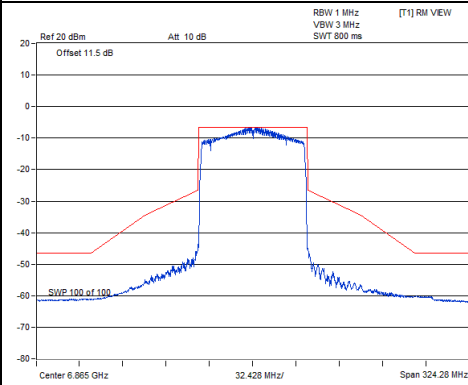
802.11ax (HE80)



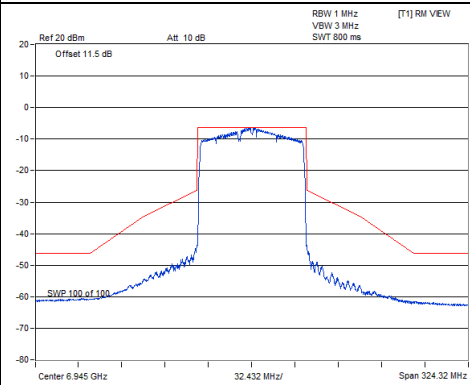
CH167



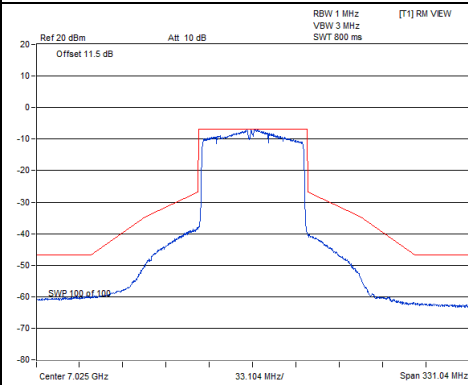
CH183



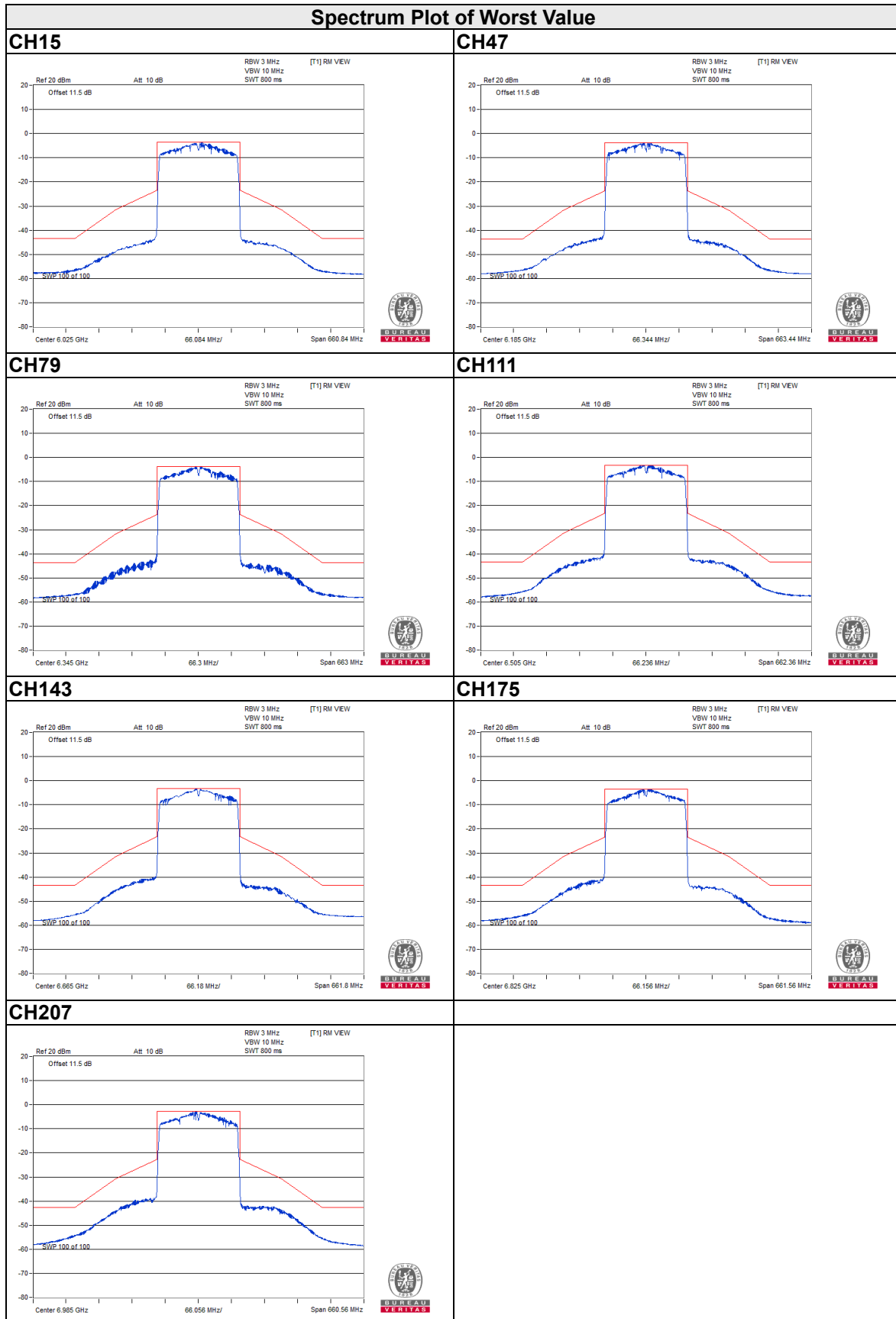
CH199



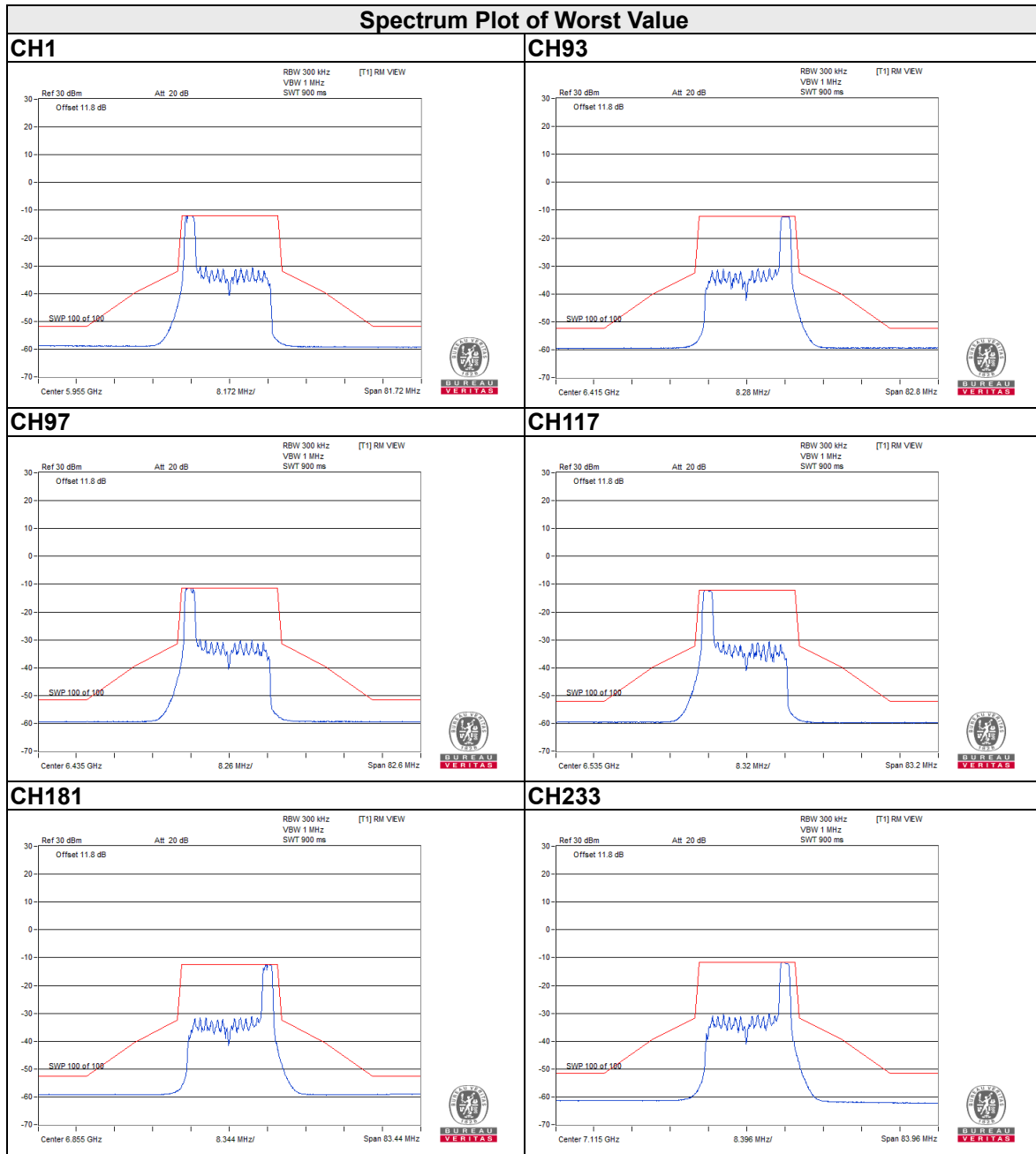
CH215



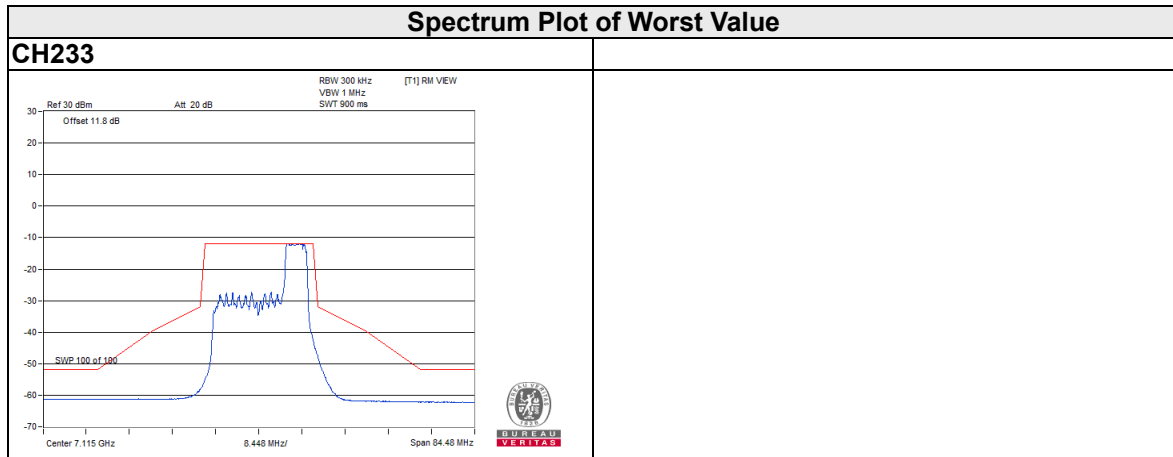
802.11ax (HE160)



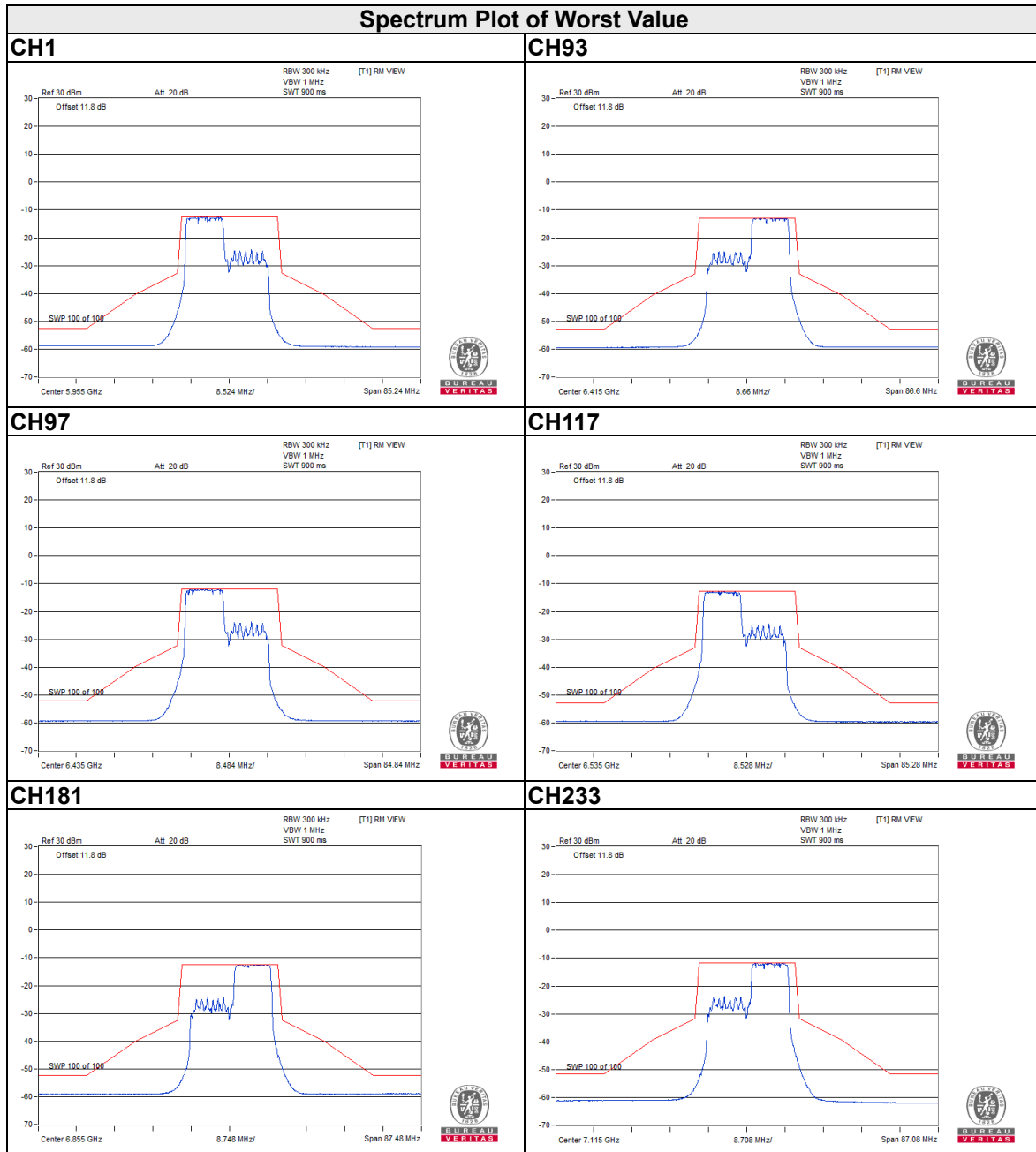
20MHz Preamble
RU26



RU52



RU106



4.3 Conducted Emission Measurement

4.3.1 Limits of Conducted Emission Measurement

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

Note: 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 0.50MHz.

4.3.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	2021/10/13	2022/10/12
LISN R&S	ESH3-Z5	848773/004	2021/10/29	2022/10/28
LISN R & S	ESH3-Z5	835239/001	2021/3/26	2022/3/25
50 ohms Terminator NA	50	3	2021/10/27	2022/10/26
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2021/9/25	2022/9/24
Fixed attenuator STI	STI02-2200-10	005	2021/8/27	2022/8/26
Software BVADT	BVADT_Cond_V7.3.7.4	NA	NA	NA

Note:

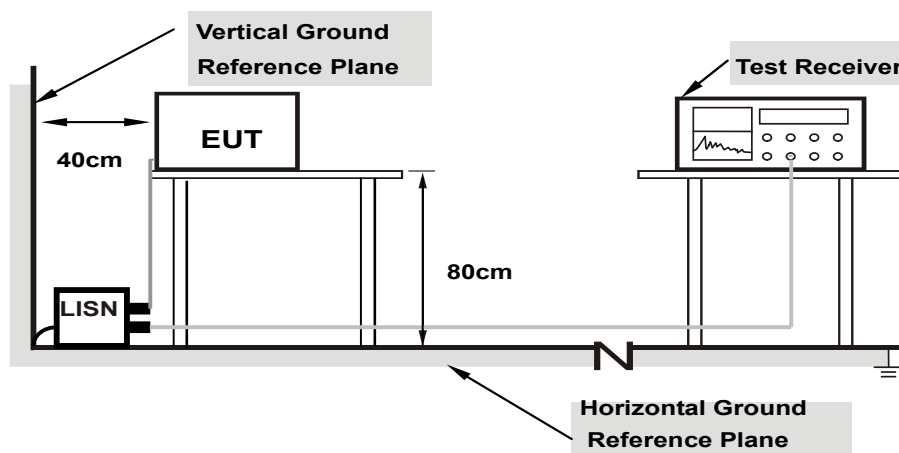
1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
- 3 Tested Date: 2022/1/12

4.3.3 Test Procedure

- The EUT was 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/ 50uH 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 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.3.4 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).

4.3.5 EUT Operating Condition

Same as 4.1.6.

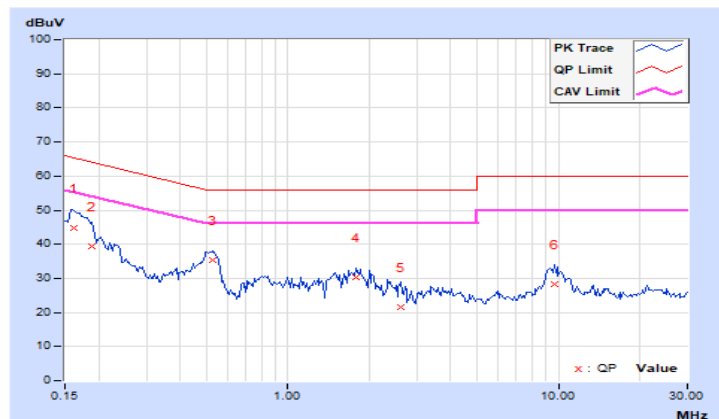
4.3.6 Test Results

RF Mode	TX 802.11ax (HE160)	Channel	CH 143 : 6665 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25 °C, 75 % RH
Tested By	Sampson Chen		

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	0.16172	10.05	34.87	25.49	44.92	35.54	65.38	55.38	-20.46	-19.84
2	0.18906	10.05	29.21	14.63	39.26	24.68	64.08	54.08	-24.82	-29.40
3	0.52891	10.08	25.18	18.19	35.26	28.27	56.00	46.00	-20.74	-17.73
4	1.78906	10.15	20.10	11.45	30.25	21.60	56.00	46.00	-25.75	-24.40
5	2.60156	10.19	11.50	2.88	21.69	13.07	56.00	46.00	-34.31	-32.93
6	9.65625	10.59	17.67	11.96	28.26	22.55	60.00	50.00	-31.74	-27.45

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

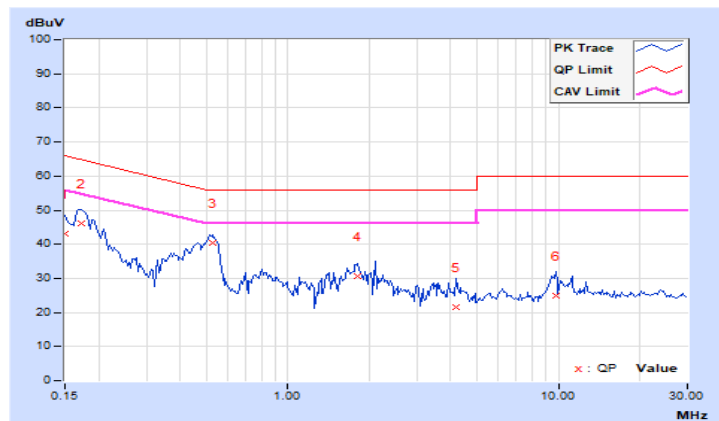


RF Mode	TX 802.11ax (HE160)	Channel	CH 143 : 6665 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25 °C, 75 % RH
Tested By	Sampson Chen		

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	10.02	33.02	20.71	43.04	30.73	66.00	56.00	-22.96	-25.27
2	0.17344	10.02	36.09	26.62	46.11	36.64	64.79	54.79	-18.68	-18.15
3	0.52891	10.05	30.22	22.61	40.27	32.66	56.00	46.00	-15.73	-13.34
4	1.81250	10.12	20.60	12.87	30.72	22.99	56.00	46.00	-25.28	-23.01
5	4.17969	10.22	11.21	3.82	21.43	14.04	56.00	46.00	-34.57	-31.96
6	9.82813	10.48	14.54	7.96	25.02	18.44	60.00	50.00	-34.98	-31.56

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



4.4 Transmit Power Measurement

4.4.1 Limits of Transmit Power Measurement

Operation Band	EUT Category	Limit
		Max Average Power
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Client Devices (controlled of an indoor AP)	EIRP 24 dBm

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

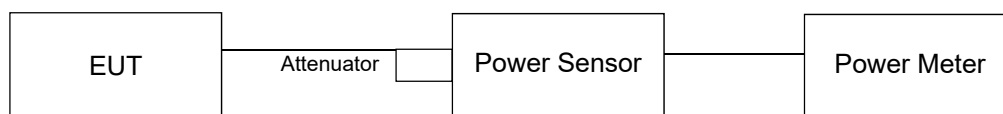
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

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.

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

Conducted Power (dBm)

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. Duty factor is not added to measured value.

EIRP = Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

4.4.5 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.4.6 Test Result

Power Output:

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
1	5955	4.909	6.91	4.76	14.689	11.67	24	Pass
45	6175	4.764	6.78	4.76	14.256	11.54	24	Pass
93	6415	4.688	6.71	4.76	14.028	11.47	24	Pass
97	6435	5.521	7.42	4.29	14.825	11.71	24	Pass
105	6475	5.248	7.20	4.29	14.093	11.49	24	Pass
113	6515	5.212	7.17	4.29	13.996	11.46	24	Pass
117	6535	4.909	6.91	4.61	14.191	11.52	24	Pass
153	6715	4.808	6.82	4.61	13.9	11.43	24	Pass
181	6855	5.117	7.09	4.61	14.791	11.7	24	Pass
185	6875	5.61	7.49	4.09	14.388	11.58	24	Pass
213	7015	5.521	7.42	4.09	14.158	11.51	24	Pass
233	7115	5.875	7.69	4.09	15.066	11.78	24	Pass

Note: 1. EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

2. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

3. Since this device support 1TX only, therefore array gain = 0 dB (i.e., no array gain) for NANT ≤ 4 (for conducted output power measurement)

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
1	5955	5.445	7.36	4.76	16.293	12.12	24	Pass
45	6175	5.333	7.27	4.76	15.959	12.03	24	Pass
93	6415	5.408	7.33	4.76	16.181	12.09	24	Pass
97	6435	5.61	7.49	4.29	15.066	11.78	24	Pass
105	6475	6.039	7.81	4.29	16.218	12.1	24	Pass
113	6515	5.916	7.72	4.29	15.885	12.01	24	Pass
117	6535	5.297	7.24	4.61	15.311	11.85	24	Pass
153	6715	5.47	7.38	4.61	15.812	11.99	24	Pass
181	6855	5.224	7.18	4.61	15.101	11.79	24	Pass
185	6875	6.397	8.06	4.09	16.406	12.15	24	Pass
213	7015	6.18	7.91	4.09	15.849	12	24	Pass
233	7115	5.741	7.59	4.09	14.723	11.68	24	Pass

Note: 1. EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

2. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

3. Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4 (for conducted output power measurement)

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
3	5965	10.423	10.18	4.76	31.189	14.94	24	Pass
43	6165	10.814	10.34	4.76	32.359	15.1	24	Pass
91	6405	10.423	10.18	4.76	31.189	14.94	24	Pass
99	6445	12.134	10.84	4.29	32.584	15.13	24	Pass
107	6485	11.535	10.62	4.29	30.974	14.91	24	Pass
115	6525	10.116	10.05	4.61	29.242	14.66	24	Pass
123	6565	10.52	10.22	4.61	30.409	14.83	24	Pass
155	6725	10.186	10.08	4.61	29.444	14.69	24	Pass
179	6845	10.814	10.34	4.61	31.261	14.95	24	Pass
187	6885	11.967	10.78	4.09	30.69	14.87	24	Pass
211	7005	12.417	10.94	4.09	31.842	15.03	24	Pass
227	7085	12.912	11.11	4.09	33.113	15.2	24	Pass

Note: 1. EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

2. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

3. Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4 (for conducted output power measurement)

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
7	5985	21.038	13.23	4.76	62.951	17.99	24	Pass
39	6145	21.281	13.28	4.76	63.68	18.04	24	Pass
87	6385	20.184	13.05	4.76	60.395	17.81	24	Pass
103	6465	22.029	13.43	4.29	59.156	17.72	24	Pass
119	6545	20.654	13.15	4.61	59.704	17.76	24	Pass
151	6705	20.701	13.16	4.61	59.841	17.77	24	Pass
167	6785	20.324	13.08	4.61	58.749	17.69	24	Pass
183	6865	22.439	13.51	4.61	64.863	18.12	24	Pass
199	6945	25.235	14.02	4.09	64.714	18.11	24	Pass
215	7025	24.717	13.93	4.09	63.387	18.02	24	Pass

Note: 1. EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

2. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

3. Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4 (for conducted output power measurement)

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
15	6025	34.514	15.38	4.76	103.276	20.14	24	Pass
47	6185	35.481	15.50	4.76	106.17	20.26	24	Pass
79	6345	33.343	15.23	4.76	99.77	19.99	24	Pass
111	6505	35.645	15.52	4.29	95.719	19.81	24	Pass
143	6665	36.983	15.68	4.61	106.905	20.29	24	Pass
175	6825	35.4	15.49	4.61	102.329	20.1	24	Pass
207	6985	36.813	15.66	4.09	94.406	19.75	24	Pass

Note: 1. EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

2. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

3. Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4 (for conducted output power measurement)

20MHz Preamble

802.11ax (RU26)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
26/0	1	5955	0.8128	-0.90	4.76	2.432	3.86	24	Pass
26/8	93	6415	0.743	-1.29	4.76	2.223	3.47	24	Pass
26/0	97	6435	0.9141	-0.39	4.29	2.455	3.9	24	Pass
26/0	117	6535	0.7656	-1.16	4.61	2.213	3.45	24	Pass
26/8	181	6855	0.7112	-1.48	4.61	2.056	3.13	24	Pass
26/8	233	7115	0.7638	-1.17	4.09	1.959	2.92	24	Pass

Note: 1. EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

2. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

3. Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4 (for conducted output power measurement)

802.11ax (RU52)

RU Configuration	Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
52/40	233	7115	2.679	4.28	4.09	6.871	8.37	24	Pass

Note: 1. EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

2. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

3. Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4 (for conducted output power measurement)

802.11ax (RU106)

RU Configuration	Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
106/53	1	5955	2.891	4.61	4.76	8.65	9.37	24	Pass
106/54	93	6415	2.965	4.72	4.76	8.872	9.48	24	Pass
106/53	97	6435	3.524	5.47	4.29	9.462	9.76	24	Pass
106/53	117	6535	2.805	4.48	4.61	8.11	9.09	24	Pass
106/54	181	6855	3.155	4.99	4.61	9.12	9.6	24	Pass
106/54	233	7115	5.14	7.11	4.09	13.183	11.2	24	Pass

Note: 1. EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

2. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

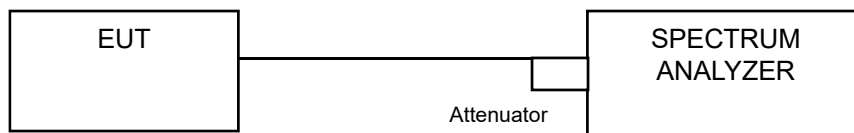
3. Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4 (for conducted output power measurement)

4.5 Emission Bandwidth Measurement

4.5.1 Limits of Emission Bandwidth Measurement

The fundamental bandwidth shall be less than 320MHz.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

FOR 99% OCCUPIED BANDWIDTH

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 SAMPLE. 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.

FOR 26dB BANDWIDTH

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- 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%.

4.5.5 Test Results

99% Occupied Bandwidth:

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
1	5955	16.95
45	6175	16.56
93	6415	16.56
97	6435	16.56
105	6475	16.56
113	6515	16.56
117	6535	16.56
153	6715	16.56
181	6855	16.56
185	6875	16.56
213	7015	16.44
233	7115	16.8

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
1	5955	18.96
45	6175	18.96
93	6415	18.96
97	6435	18.96
105	6475	18.96
113	6515	18.96
117	6535	18.96
153	6715	18.96
181	6855	18.96
185	6875	18.96
213	7015	18.96
233	7115	18.87

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
3	5965	37.68
43	6165	37.68
91	6405	37.68
99	6445	37.92
107	6485	37.68
115	6525	37.68
123	6565	37.44
155	6725	37.92
179	6845	37.92
187	6885	37.92
211	7005	37.68
227	7085	37.68

802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
7	5985	76.8
39	6145	76.8
87	6385	76.8
103	6465	76.8
119	6545	76.8
151	6705	76.8
167	6785	76.8
183	6865	76.8
199	6945	76.8
215	7025	77.28

802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
15	6025	156.52
47	6185	156.48
79	6345	155.52
111	6505	156.48
143	6665	155.52
175	6825	155.52
207	6985	155.52

20MHz Preamble

802.11ax (RU26)

RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
26/0	1	5955	18.72
26/8	93	6415	18.48
26/0	97	6435	18.6
26/0	117	6535	18.6
26/8	181	6855	18.48
26/8	233	7115	18.6

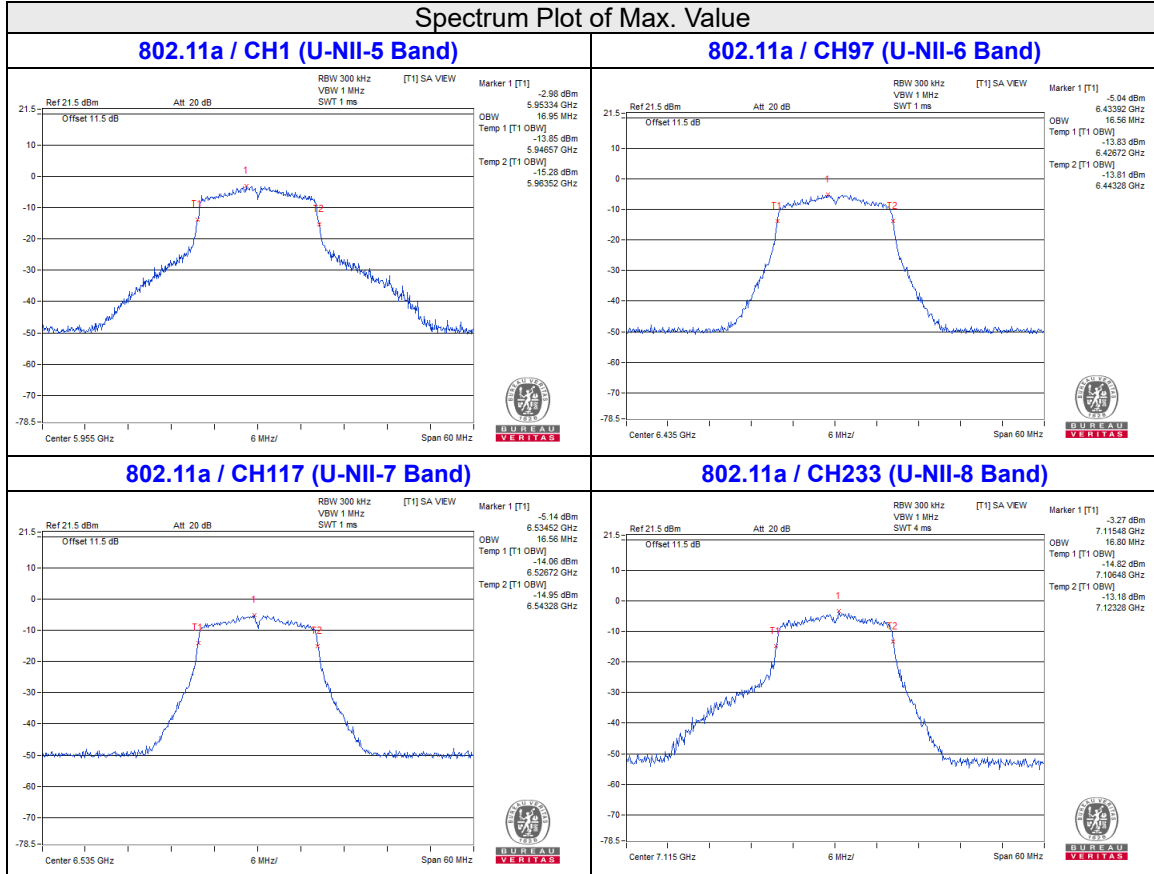
802.11ax (RU52)

RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
52/40	233	7115	18.44

802.11ax (RU106)

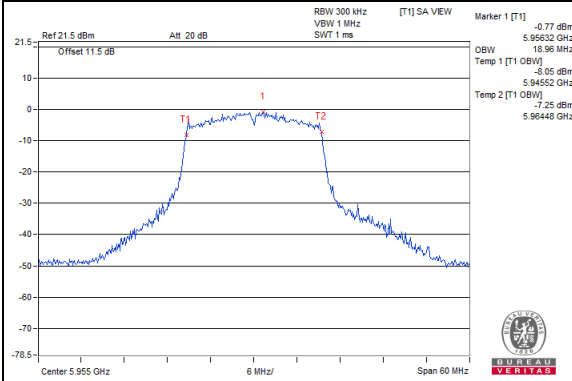
RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
106/53	1	5955	18.24
106/54	93	6415	18.48
106/53	97	6435	18.36
106/53	117	6535	18.24
106/54	181	6855	18.36
106/54	233	7115	18.36

Spectrum Plot of Max. Value

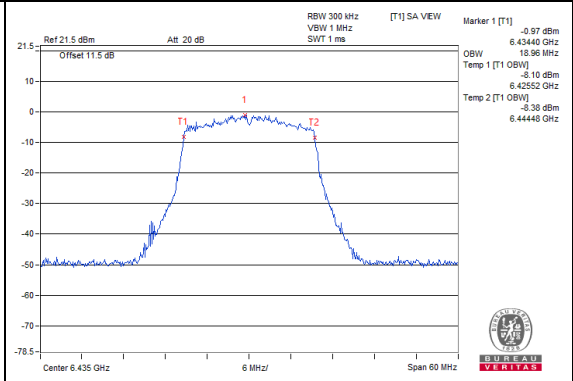


Spectrum Plot of Max. Value

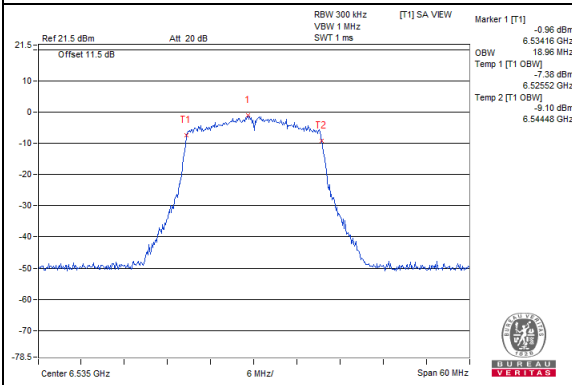
802.11ax (HE20) / CH1 (U-NII-5 Band)



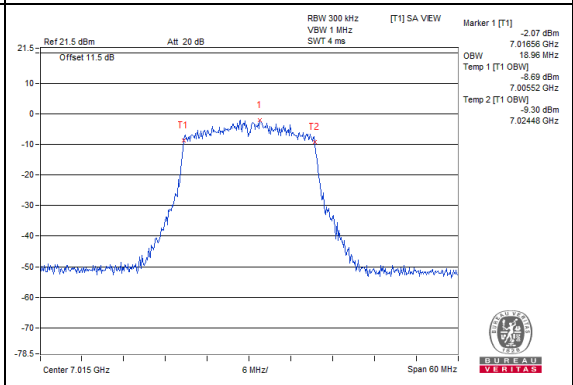
802.11ax (HE20) / CH97 (U-NII-6 Band)



802.11ax (HE20) / CH117 (U-NII-7 Band)

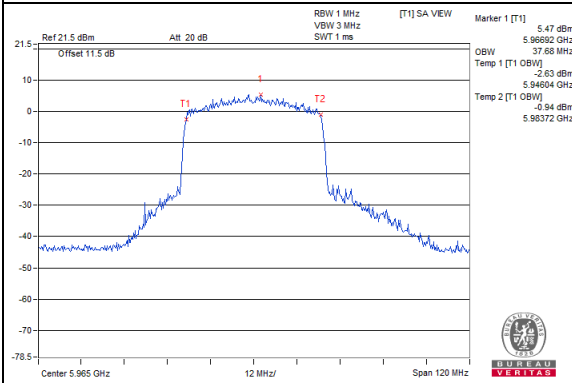


802.11ax (HE20) / CH213 (U-NII-8 Band)

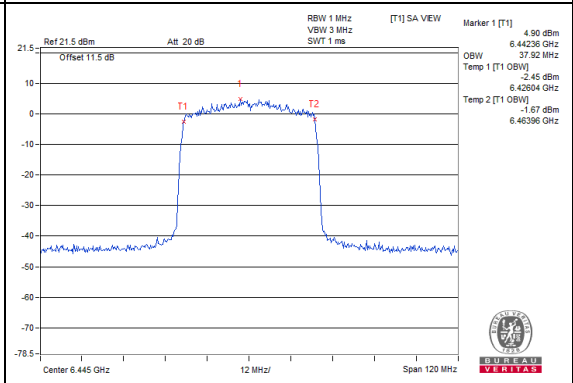


Spectrum Plot of Max. Value

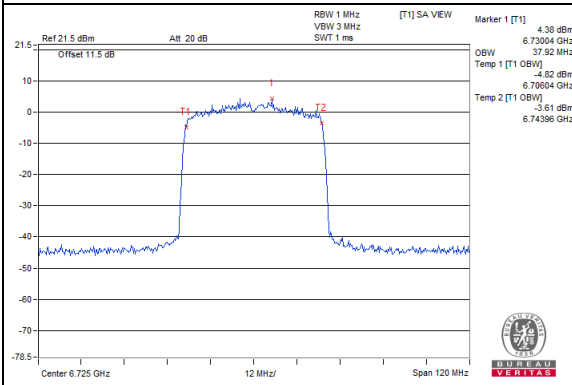
802.11ax (HE40) / CH3 (U-NII-5 Band)



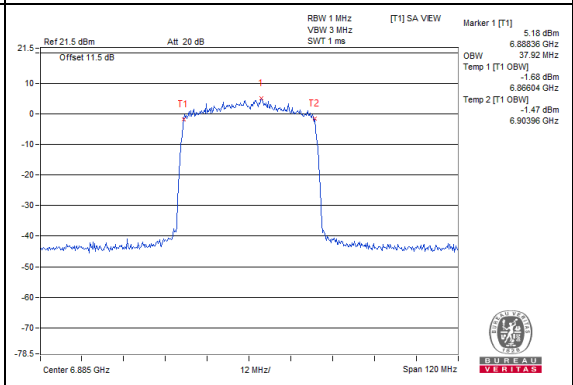
802.11ax (HE40) / CH99 (U-NII-6 Band)



802.11ax (HE40) / CH155 (U-NII-7 Band)

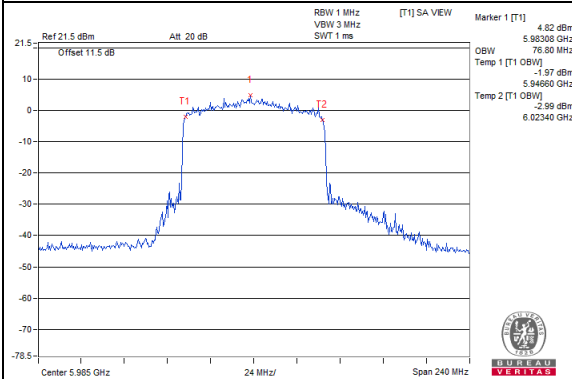


802.11ax (HE40) / CH187 (U-NII-8 Band)

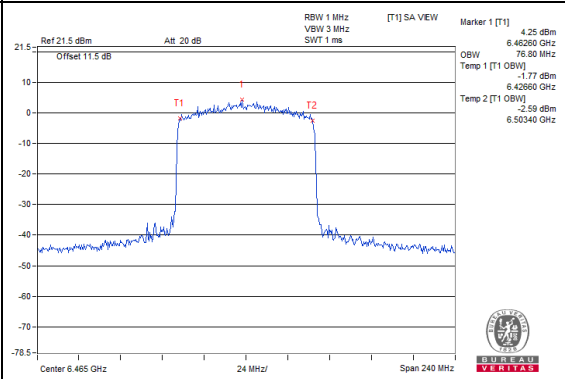


Spectrum Plot of Max. Value

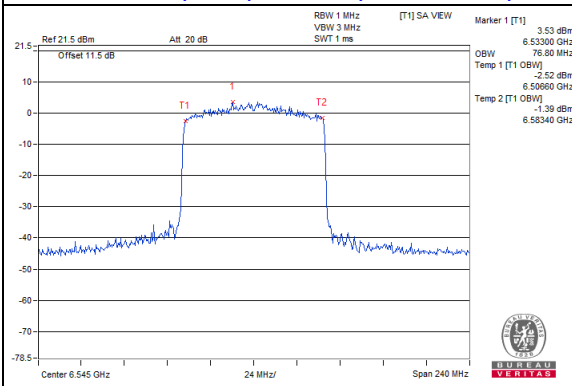
802.11ax (HE80) / CH7 (U-NII-5 Band)



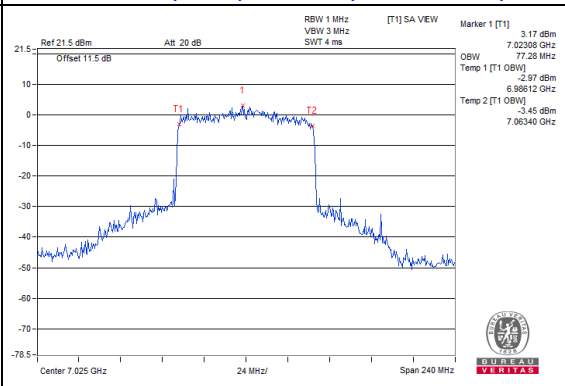
802.11ax (HE80) / CH103 (U-NII-6 Band)



802.11ax (HE80) / CH119 (U-NII-7 Band)

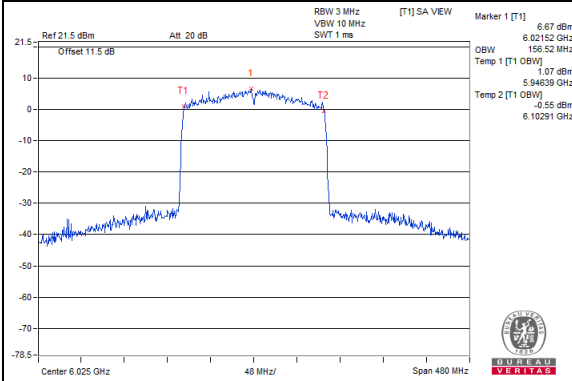


802.11ax (HE80) / CH215 (U-NII-8 Band)

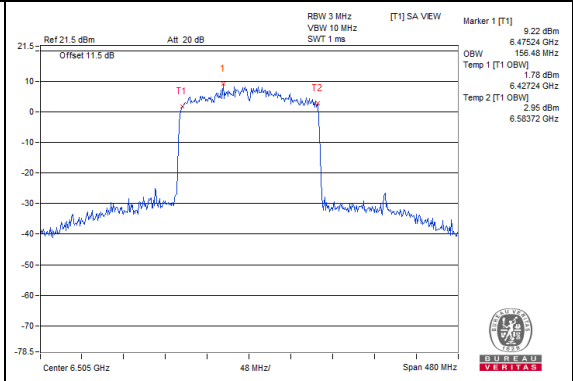


Spectrum Plot of Max. Value

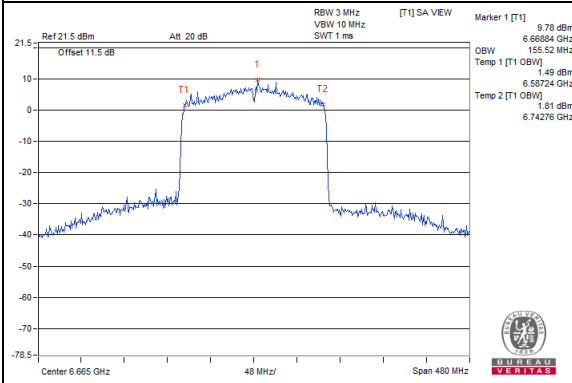
802.11ax (HE160) / CH15 (U-NII-5 Band)



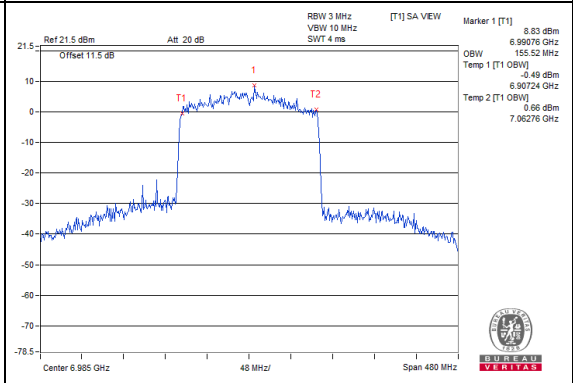
802.11ax (HE160) / CH111 (U-NII-6 Band)



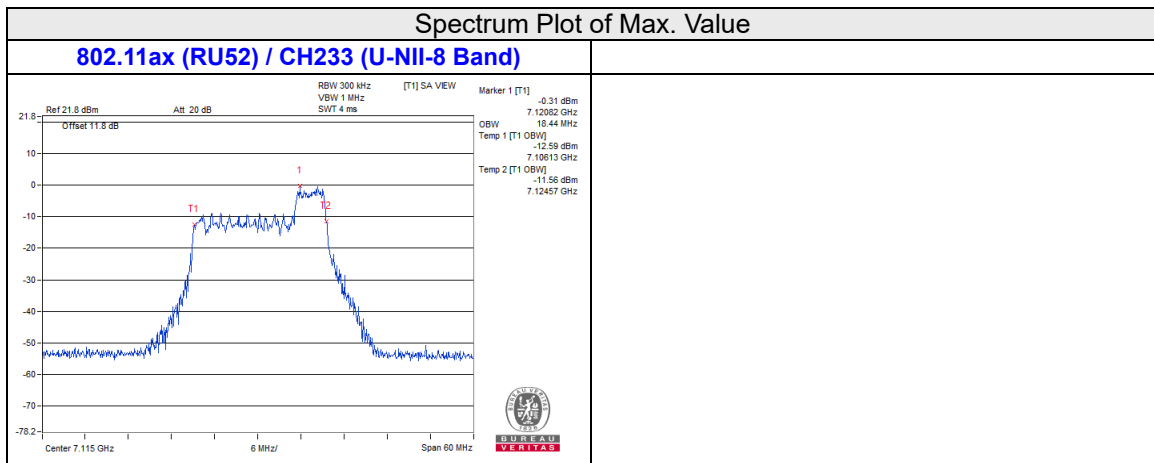
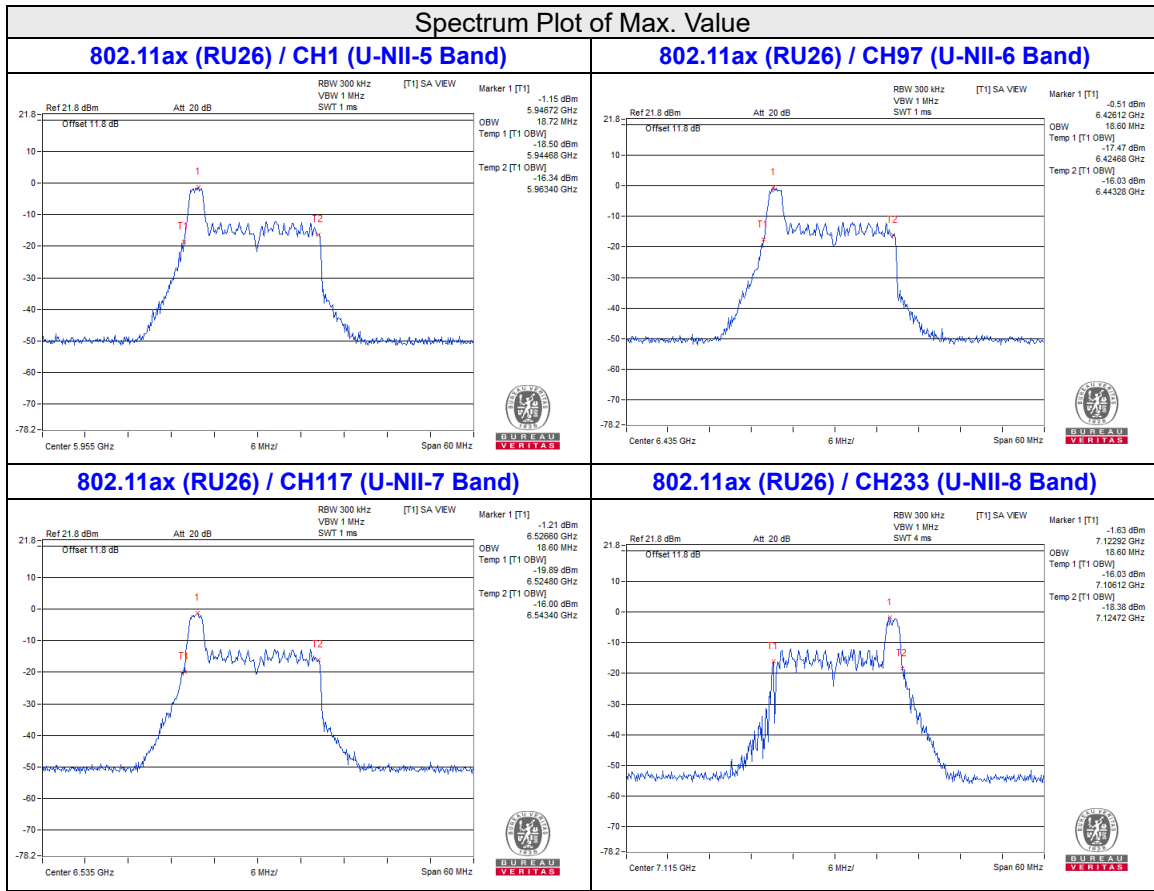
802.11ax (HE160) / CH143 (U-NII-7 Band)



802.11ax (HE160) / CH207 (U-NII-8 Band)

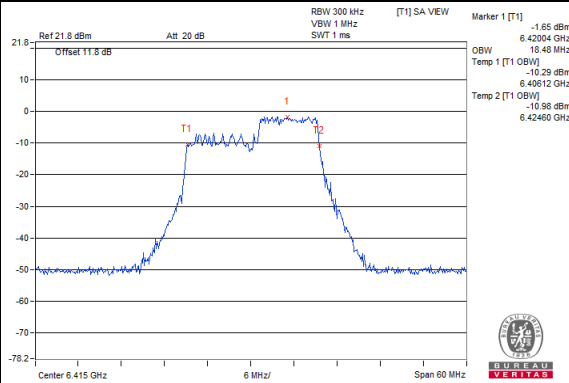


20MHz Preamble

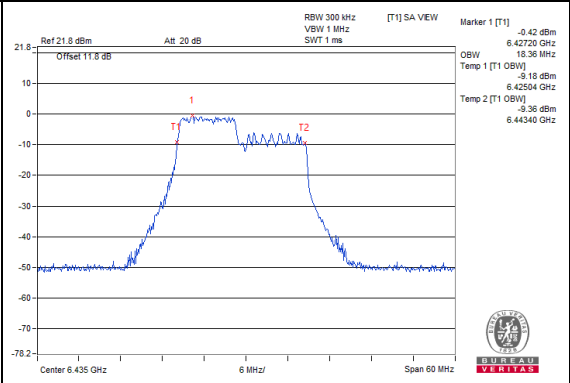


Spectrum Plot of Max. Value

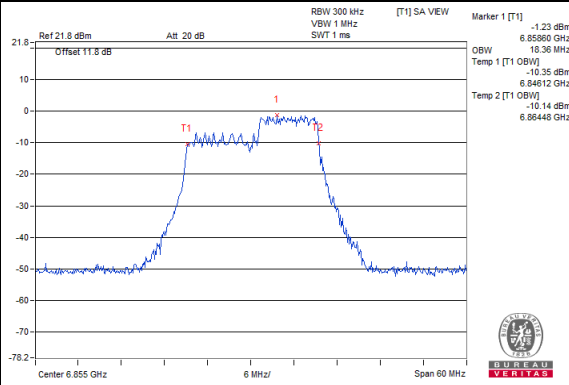
802.11ax (RU106) / CH93 (U-NII-5 Band)



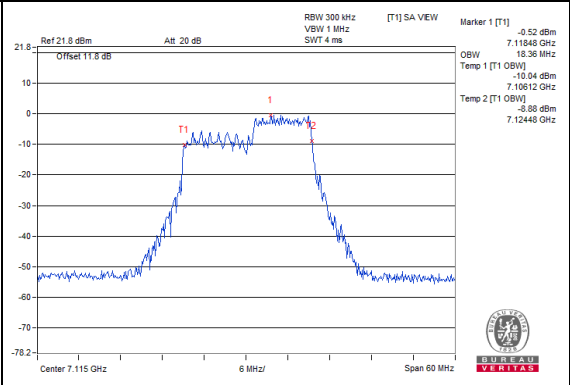
802.11ax (RU106) / CH97 (U-NII-6 Band)



802.11ax (RU106) / CH181 (U-NII-7 Band)



802.11ax (RU106) / CH233 (U-NII-8 Band)



26dB Bandwidth:

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)
1	5955	28.89	320
45	6175	21.2	320
93	6415	21.22	320
97	6435	20.94	320
105	6475	21.2	320
113	6515	21.13	320
117	6535	20.9	320
153	6715	21.14	320
181	6855	20.79	320
185	6875	20.91	320
213	7015	21.29	320
233	7115	25.35	320

802.11ax (HE20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)
1	5955	22.39	320
45	6175	22.2	320
93	6415	21.75	320
97	6435	22.43	320
105	6475	21.99	320
113	6515	22.04	320
117	6535	22.06	320
153	6715	22.58	320
181	6855	21.75	320
185	6875	22.1	320
213	7015	22.07	320
233	7115	22.36	320

802.11ax (HE40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)
3	5965	40.94	320
43	6165	40.73	320
91	6405	40.77	320
99	6445	40.75	320
107	6485	40.76	320
115	6525	40.87	320
123	6565	40.69	320
155	6725	40.75	320
179	6845	40.66	320
187	6885	40.71	320
211	7005	40.72	320
227	7085	40.63	320

802.11ax (HE80)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)
7	5985	81.14	320
39	6145	81.25	320
87	6385	81.11	320
103	6465	81.05	320
119	6545	81.13	320
151	6705	81.17	320
167	6785	81.18	320
183	6865	81.07	320
199	6945	81.08	320
215	7025	82.76	320

802.11ax (HE160)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)
15	6025	165.21	320
47	6185	165.86	320
79	6345	165.75	320
111	6505	165.59	320
143	6665	165.45	320
175	6825	165.39	320
207	6985	165.14	320

20MHz Preamble

802.11ax (RU26)

RU Configuration	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)
26/0	1	5955	20.43	320
26/8	93	6415	20.7	320
26/0	97	6435	20.65	320
26/0	117	6535	20.8	320
26/8	181	6855	20.86	320
26/8	233	7115	20.99	320

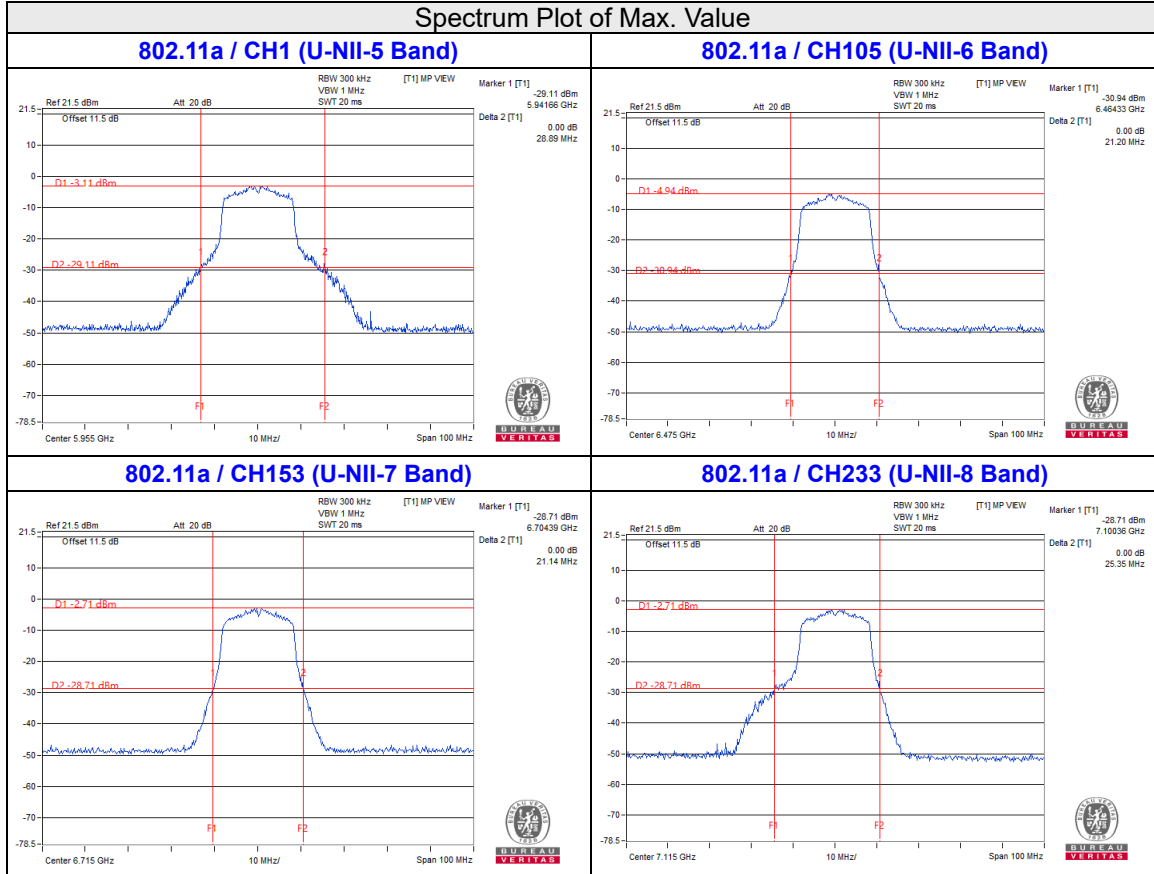
802.11ax (RU52)

RU Configuration	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)
52/40	233	7115	21.12	320

802.11ax (RU106)

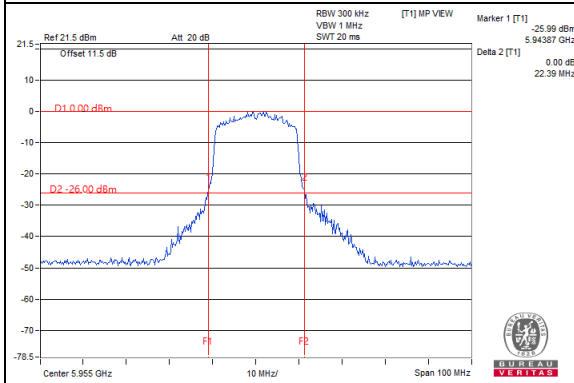
RU Configuration	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)
106/53	1	5955	21.31	320
106/54	93	6415	21.65	320
106/53	97	6435	21.21	320
106/53	117	6535	21.32	320
106/54	181	6855	21.87	320
106/54	233	7115	21.77	320

Spectrum Plot of Max. Value

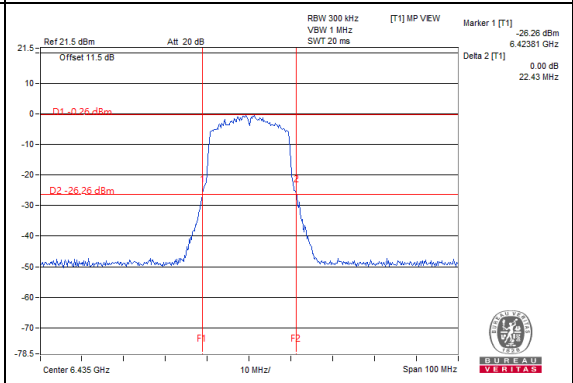


Spectrum Plot of Max. Value

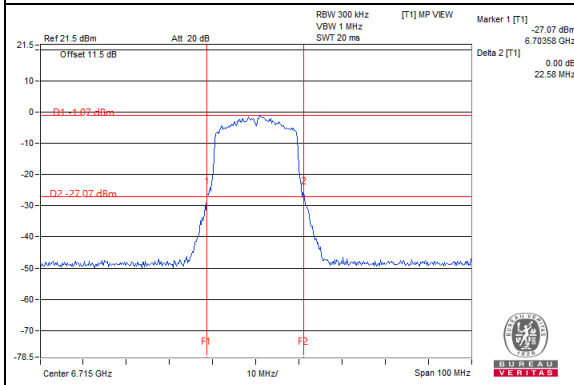
802.11ax (HE20) / CH1 (U-NII-5 Band)



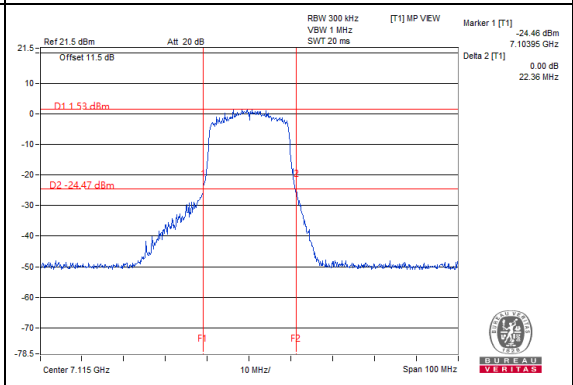
802.11ax (HE20) / CH97 (U-NII-6 Band)

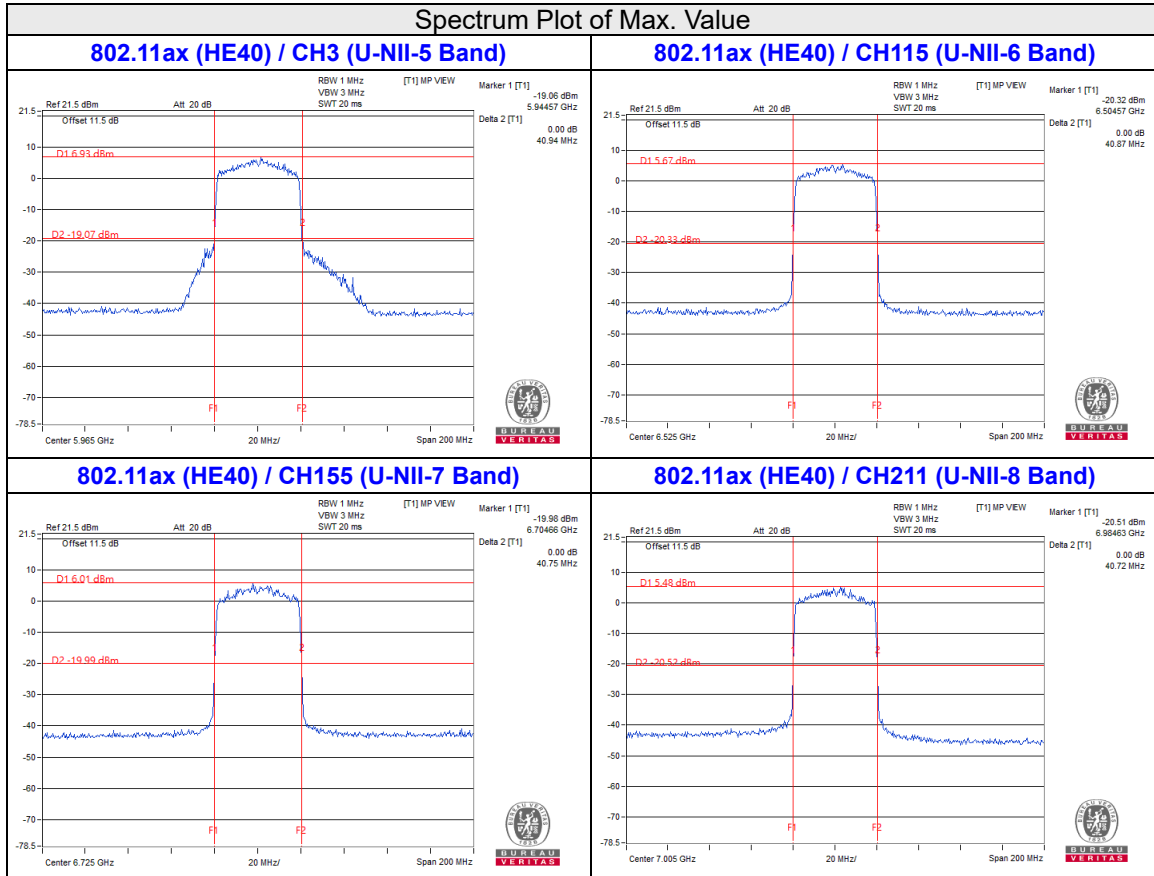


802.11ax (HE20) / CH153 (U-NII-7 Band)



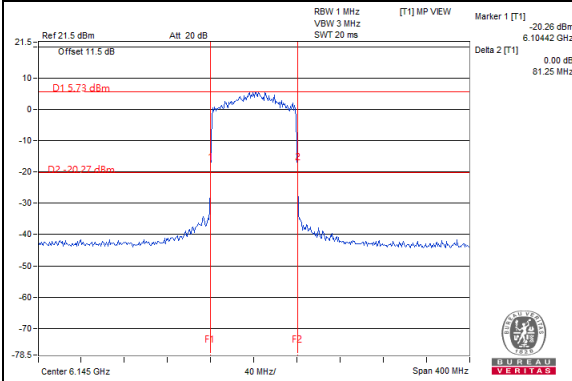
802.11ax (HE20) / CH233 (U-NII-8 Band)



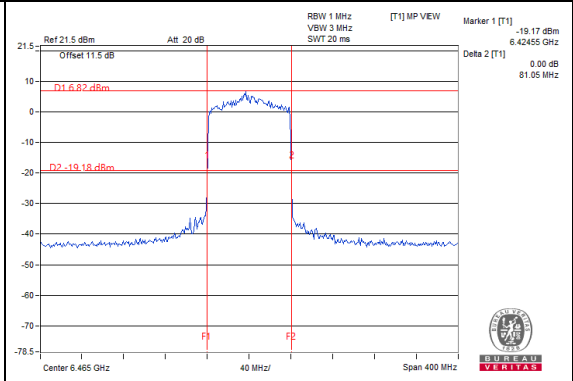


Spectrum Plot of Max. Value

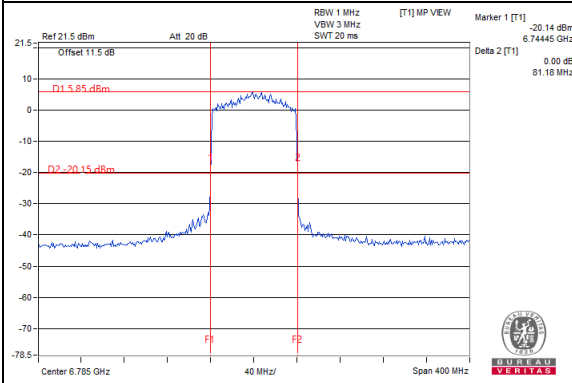
802.11ax (HE80) / CH39 (U-NII-5 Band)



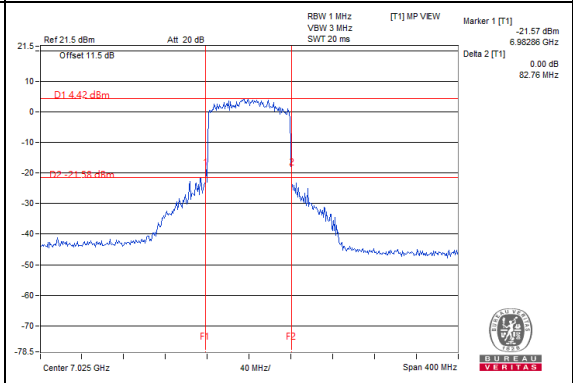
802.11ax (HE80) / CH103 (U-NII-6 Band)



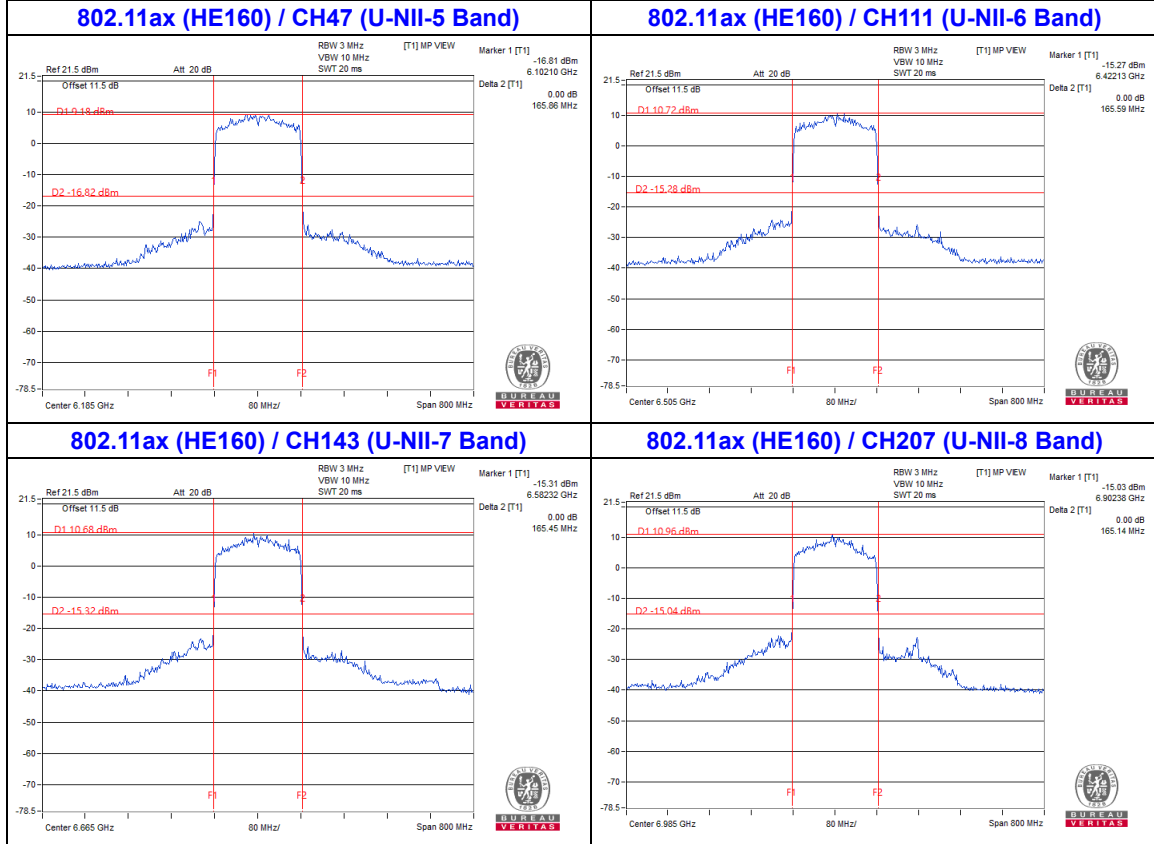
802.11ax (HE80) / CH167 (U-NII-7 Band)



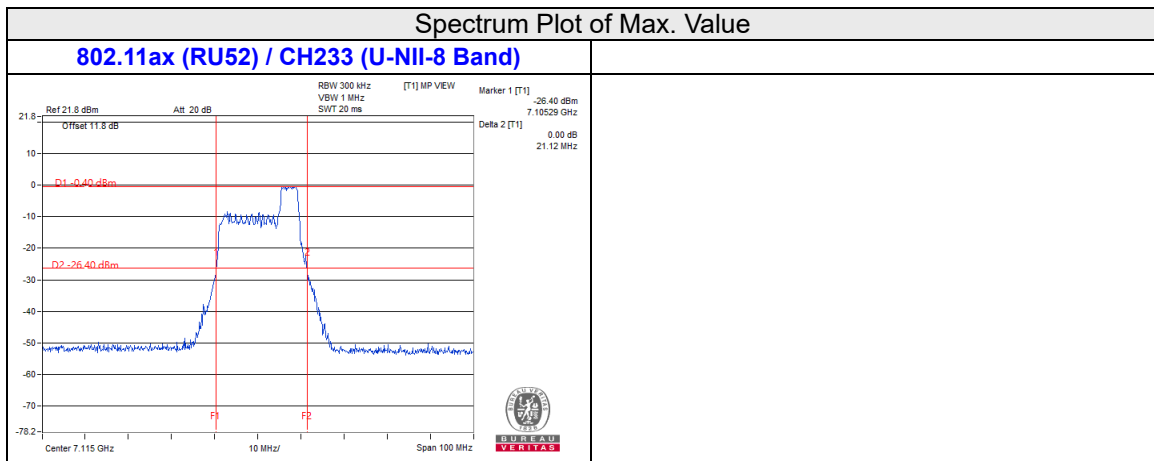
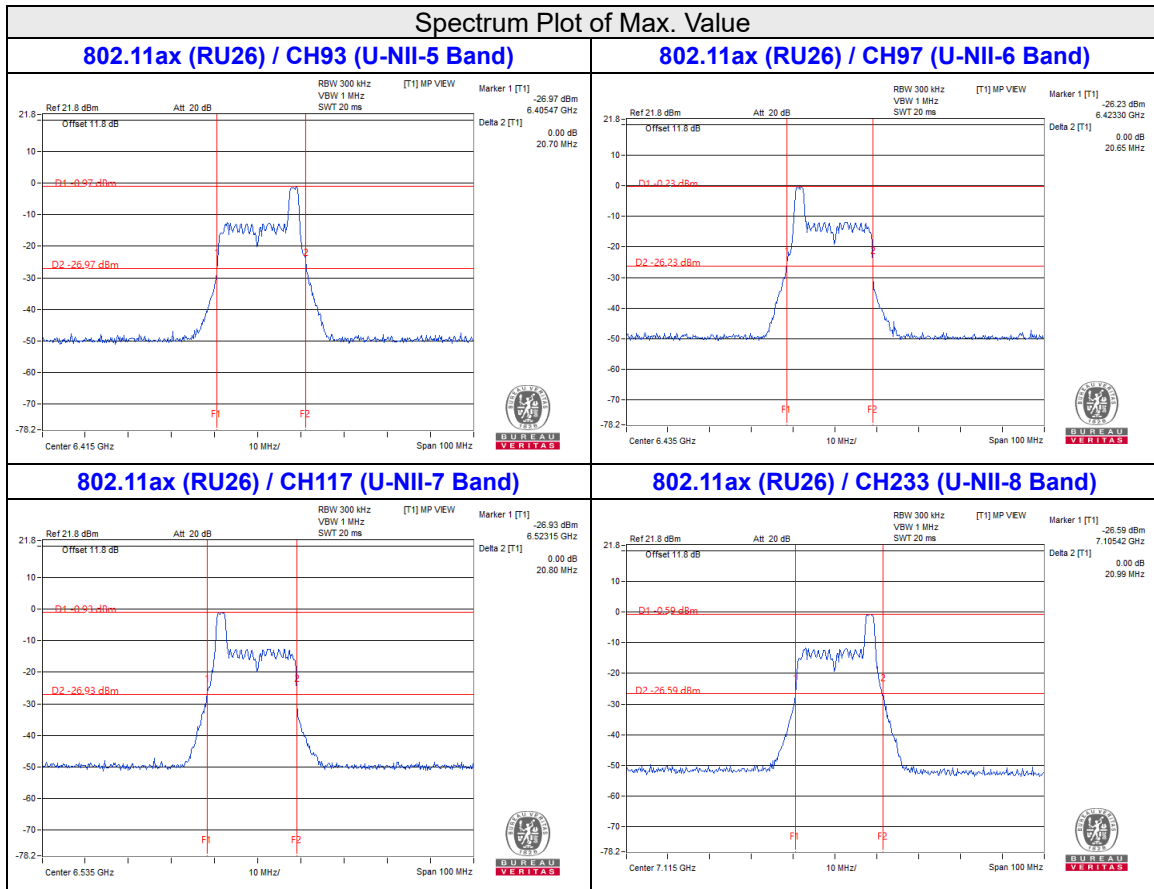
802.11ax (HE80) / CH215 (U-NII-8 Band)



Spectrum Plot of Max. Value

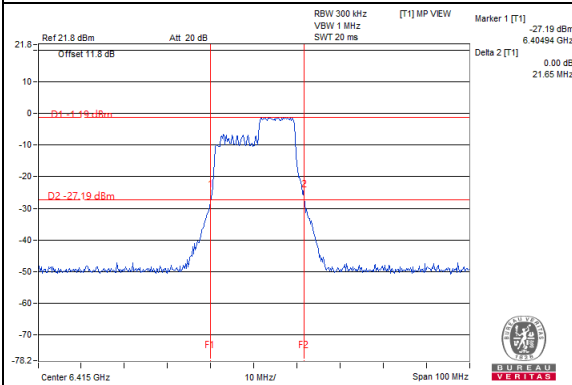


20MHz Preamble

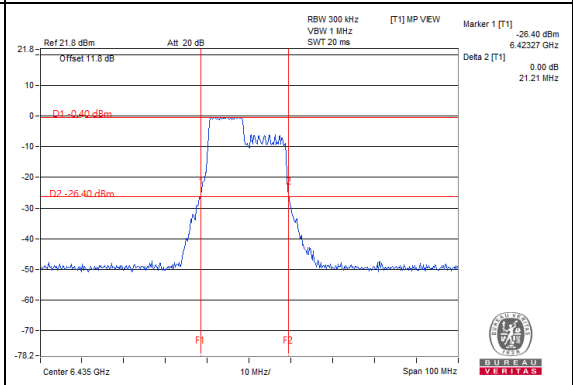


Spectrum Plot of Max. Value

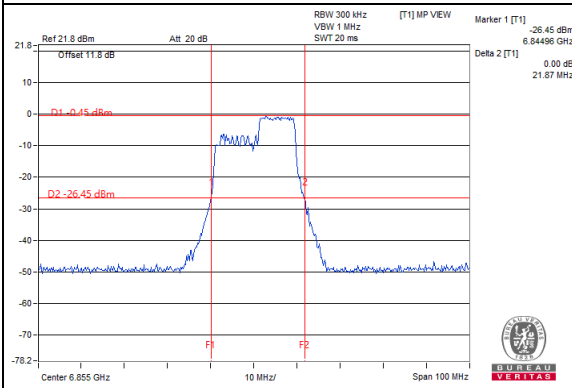
802.11ax (RU106) / CH93 (U-NII-5 Band)



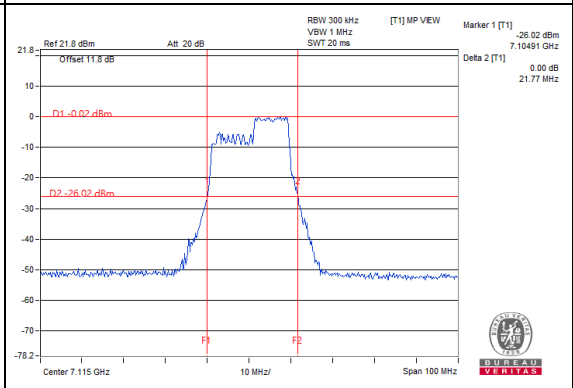
802.11ax (RU106) / CH97 (U-NII-6 Band)



802.11ax (RU106) / CH181 (U-NII-7 Band)



802.11ax (RU106) / CH233 (U-NII-8 Band)

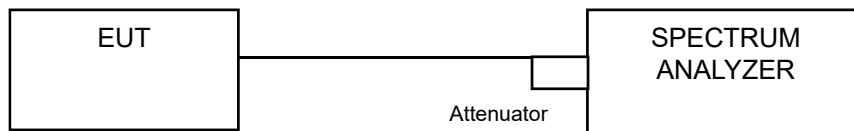


4.6 Peak Power Spectral Density Measurement

4.6.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category	Limit
		Peak Power Density (EIRP)
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Client Devices (controlled of an indoor AP)	-1 dBm/MHz

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

Using method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW \geq 3 MHz
- Sweep time = auto, trigger set to "free run".
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add $10 \log (1/\text{duty cycle})$
- EIRP PSD = Conducted PSD (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

4.6.5 EUT Operating Condition

Same as Item 4.3.6.

4.6.6 Test Results

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
1	5955	-6.69	0.38	-6.31	4.76	-1.55	-1	Pass
45	6175	-6.3	0.38	-5.92	4.76	-1.16	-1	Pass
93	6415	-6.16	0.38	-5.78	4.76	-1.02	-1	Pass
97	6435	-5.89	0.38	-5.51	4.29	-1.22	-1	Pass
105	6475	-6.04	0.38	-5.66	4.29	-1.37	-1	Pass
113	6515	-5.88	0.38	-5.50	4.29	-1.21	-1	Pass
117	6535	-6.02	0.38	-5.64	4.61	-1.03	-1	Pass
153	6715	-6.52	0.38	-6.14	4.61	-1.53	-1	Pass
181	6855	-6.25	0.38	-5.87	4.61	-1.26	-1	Pass
185	6875	-5.73	0.38	-5.35	4.09	-1.26	-1	Pass
213	7015	-5.8	0.38	-5.42	4.09	-1.33	-1	Pass
233	7115	-5.78	0.38	-5.40	4.09	-1.31	-1	Pass

Note: 1. Refer to section 3.3 for duty cycle spectrum plot.

2. EIRP PSD= Conducted PSD (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

3. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

4. Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB = $10 \log(1/1)$ dB = 0 dB

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
1	5955	-6.7	0.53	-6.17	4.76	-1.41	-1	Pass
45	6175	-6.35	0.53	-5.82	4.76	-1.06	-1	Pass
93	6415	-6.34	0.53	-5.81	4.76	-1.05	-1	Pass
97	6435	-5.97	0.53	-5.44	4.29	-1.15	-1	Pass
105	6475	-6.22	0.53	-5.69	4.29	-1.4	-1	Pass
113	6515	-6.15	0.53	-5.62	4.29	-1.33	-1	Pass
117	6535	-6.4	0.53	-5.87	4.61	-1.26	-1	Pass
153	6715	-6.3	0.53	-5.77	4.61	-1.16	-1	Pass
181	6855	-6.35	0.53	-5.82	4.61	-1.21	-1	Pass
185	6875	-5.79	0.53	-5.26	4.09	-1.17	-1	Pass
213	7015	-5.81	0.53	-5.28	4.09	-1.19	-1	Pass
233	7115	-5.93	0.53	-5.40	4.09	-1.31	-1	Pass

Note: 1. Refer to section 3.3 for duty cycle spectrum plot.

2. EIRP PSD= Conducted PSD (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

3. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

4. Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB = $10 \log(1/1)$ dB = 0 dB

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
3	5965	-6.49	0.67	-5.82	4.76	-1.06	-1	Pass
43	6165	-6.74	0.67	-6.07	4.76	-1.31	-1	Pass
91	6405	-6.88	0.67	-6.21	4.76	-1.45	-1	Pass
99	6445	-6.16	0.67	-5.49	4.29	-1.2	-1	Pass
107	6485	-6.33	0.67	-5.66	4.29	-1.37	-1	Pass
115	6525	-6.6	0.67	-5.93	4.61	-1.32	-1	Pass
123	6565	-6.36	0.67	-5.69	4.61	-1.08	-1	Pass
155	6725	-6.74	0.67	-6.07	4.61	-1.46	-1	Pass
179	6845	-6.48	0.67	-5.81	4.61	-1.2	-1	Pass
187	6885	-6.04	0.67	-5.37	4.09	-1.28	-1	Pass
211	7005	-6.18	0.67	-5.51	4.09	-1.42	-1	Pass
227	7085	-6.21	0.67	-5.54	4.09	-1.45	-1	Pass

Note: 1. Refer to section 3.3 for duty cycle spectrum plot.

2. EIRP PSD= Conducted PSD (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

3. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

4. Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB = $10 \log(1/1)$ dB = 0 dB

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
7	5985	-7.48	1.25	-6.23	4.76	-1.47	-1	Pass
39	6145	-7.41	1.25	-6.16	4.76	-1.4	-1	Pass
87	6385	-7.08	1.25	-5.83	4.76	-1.07	-1	Pass
103	6465	-6.6	1.25	-5.35	4.29	-1.06	-1	Pass
119	6545	-7.38	1.25	-6.13	4.61	-1.52	-1	Pass
151	6705	-7.16	1.25	-5.91	4.61	-1.3	-1	Pass
167	6785	-6.89	1.25	-5.64	4.61	-1.03	-1	Pass
183	6865	-6.99	1.25	-5.74	4.61	-1.13	-1	Pass
199	6945	-6.42	1.25	-5.17	4.09	-1.08	-1	Pass
215	7025	-6.8	1.25	-5.55	4.09	-1.46	-1	Pass

Note: 1. Refer to section 3.3 for duty cycle spectrum plot.

2. EIRP PSD= Conducted PSD (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

3. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

4. Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB = $10 \log(1/1)$ dB = 0 dB

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
15	6025	-8.19	2.19	-6.00	4.76	-1.24	-1	Pass
47	6185	-8.24	2.19	-6.05	4.76	-1.29	-1	Pass
79	6345	-8.42	2.19	-6.23	4.76	-1.47	-1	Pass
111	6505	-7.71	2.19	-5.52	4.29	-1.23	-1	Pass
143	6665	-7.91	2.19	-5.72	4.61	-1.11	-1	Pass
175	6825	-7.99	2.19	-5.80	4.61	-1.19	-1	Pass
207	6985	-7.59	2.19	-5.40	4.09	-1.31	-1	Pass

Note: 1. Refer to section 3.3 for duty cycle spectrum plot.

2. EIRP PSD= Conducted PSD (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

3. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

4. Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB = $10 \log(1/1)$ dB = 0 dB

20MHz Preamble

802.11ax (RU26)

RU Configuration	Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
26/0	1	5955	-8.12	2.12	-6.00	4.76	-1.24	-1	Pass
26/8	93	6415	-8.31	2.12	-6.19	4.76	-1.43	-1	Pass
26/0	97	6435	-7.63	2.12	-5.51	4.29	-1.22	-1	Pass
26/0	117	6535	-8.13	2.12	-6.01	4.61	-1.4	-1	Pass
26/8	181	6855	-8.04	2.12	-5.92	4.61	-1.31	-1	Pass
26/8	233	7115	-7.78	2.12	-5.66	4.09	-1.57	-1	Pass

Note: 1. Refer to section 3.3 for duty cycle spectrum plot.

2. EIRP PSD= Conducted PSD (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

3. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

4. Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB = $10 \log(1/1)$ dB = 0 dB

802.11ax (RU52)

RU Configuration	Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
52/40	233	7115	-7.81	2.4	-5.41	4.09	-1.32	-1	Pass

Note: 1. Refer to section 3.3 for duty cycle spectrum plot.

2. EIRP PSD= Conducted PSD (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

3. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

4. Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB = $10 \log(1/1)$ dB = 0 dB

802.11ax (RU106)

RU Configuration	Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
106/53	1	5955	-8.85	2.66	-6.19	4.76	-1.43	-1	Pass
106/54	93	6415	-9.09	2.66	-6.43	4.76	-1.67	-1	Pass
106/53	97	6435	-8.19	2.66	-5.53	4.29	-1.24	-1	Pass
106/53	117	6535	-8.76	2.66	-6.10	4.61	-1.49	-1	Pass
106/54	181	6855	-8.67	2.66	-6.01	4.61	-1.4	-1	Pass
106/54	233	7115	-8.29	2.66	-5.63	4.09	-1.54	-1	Pass

Note: 1. Refer to section 3.3 for duty cycle spectrum plot.

2. EIRP PSD= Conducted PSD (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

3. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

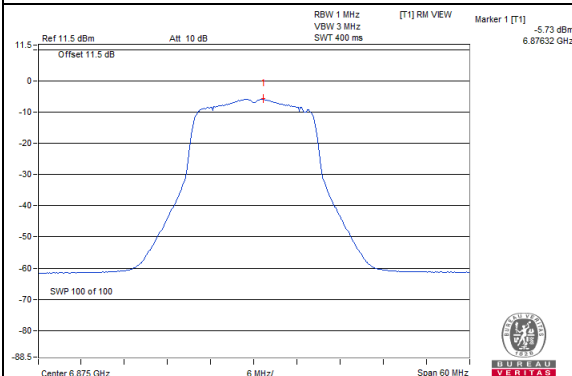
U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

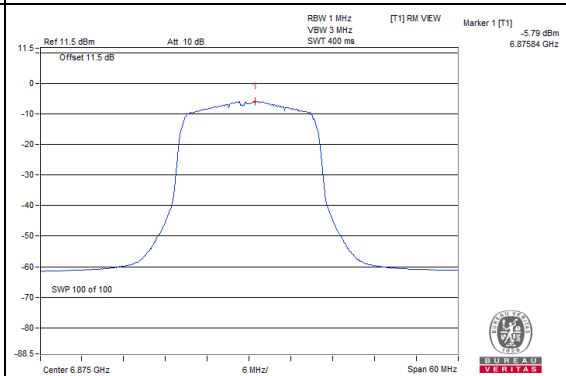
4. Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB = $10 \log(1/1)$ dB = 0 dB

Spectrum Plot of Worst Value

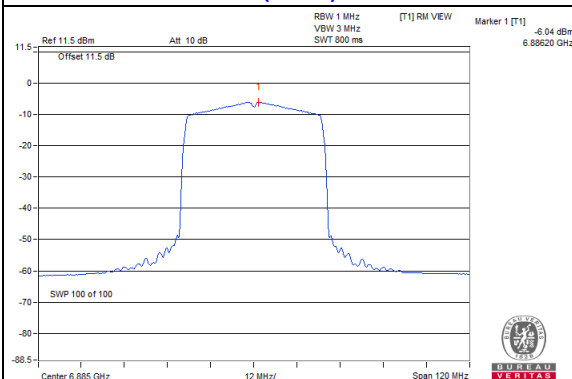
802.11a / CH185



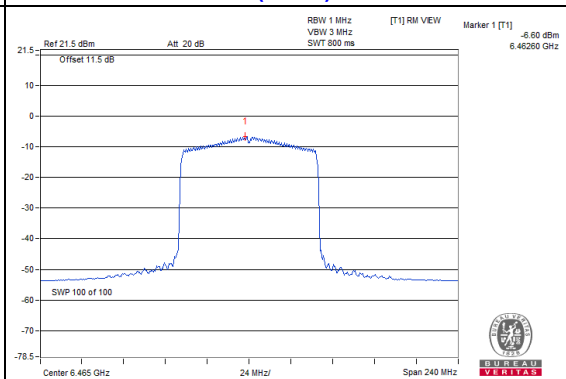
802.11ax (HE20) / CH185



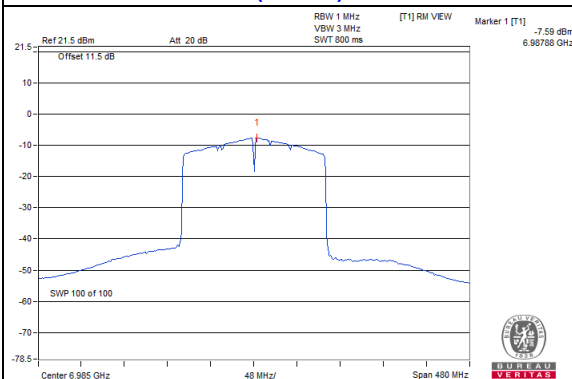
802.11ax (HE40) / CH187



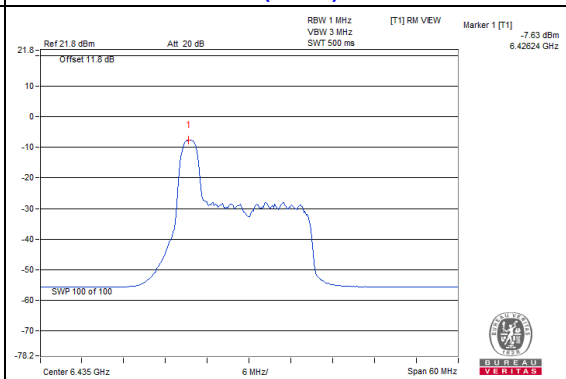
802.11ax (HE80) / CH103



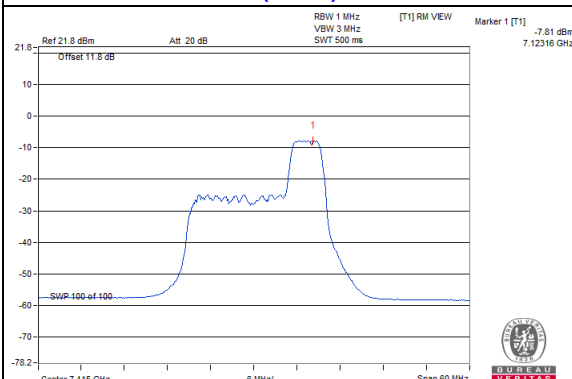
802.11ax (HE160) / CH207



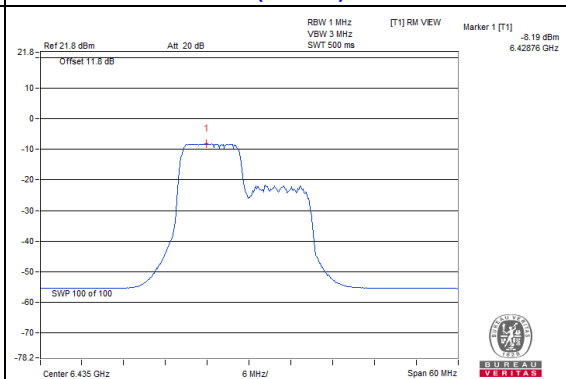
802.11ax (RU26) / CH97



802.11ax (RU52) / CH233



802.11ax (RU106) / CH97

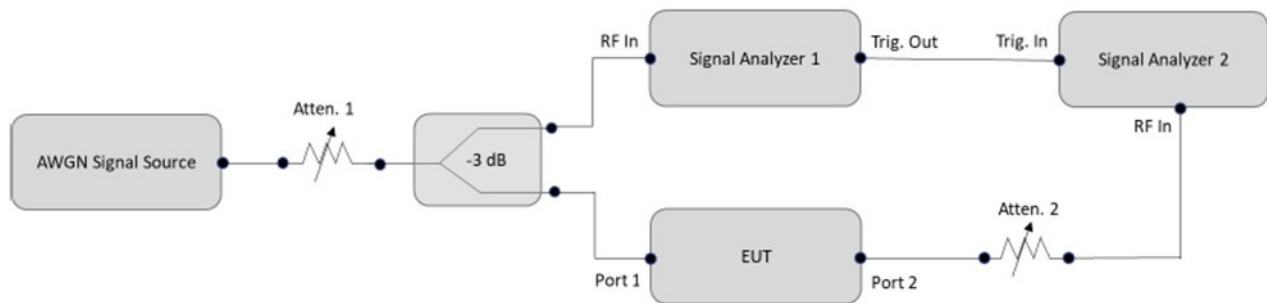


4.7 Contention Based Protocol Measurement

4.7.1 Limits of Contention Based Protocol Measurement

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm (The threshold is referenced to a 0 dBi antenna gain.) or lower. Additionally, indoor low-power devices must detect co-channel energy with 90% or greater certainty.

4.7.2 Test Setup



4.7.3 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer KEYSIGHT	N9030B	MY57141948	2021/5/21	2022/5/20
N5182B MXG X-Series RF Vector Signal Generator Keysight	N5182B	MY59100182	2021/4/22	2022/4/21
Combiner / Splitter (Model:ZN2PD-9G) Mini-Circuits	ZN2PD-9G	ZN2PD-9G	2021/6/11	2022/6/10
Signal Analyzer R&S	FSW8	101497	2021/10/25	2022/10/24
Spectrum Analyzer R&S	FSV40	101516	2021/3/8	2022/3/7
N5182B MXG X-Series RF Vector Signal Generator Keysight	N5182B	MY59100182	2021/4/22	2022/4/21
Frequency Extender KEYSIGHT	N5182BX07	MY59360203	2021/12/10	2022/12/9
Combiner Mini-Circuits	ZFRSC-123-S+	F698501347_01	2021/1/27	2022/1/26

- NOTE:**
1. The test was performed in Femtocell room.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: 2022/1/13

4.7.4 Test Procedure

- a. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- b. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters (set as following section 4.7.5 EUT operating condition).
- c. Determine number of times detection threshold test as following table,

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Same as EUT transmission
$BW_{Inc} < BW_{EUT} \leq 2x BW_{Inc}$	Once	Contained within BW_{EUT}
$2x BW_{Inc} < BW_{EUT} \leq 4x BW_{Inc}$	Twice. (Incumbent transmission is contained within BW_{EUT})	Closely to the lower edge and upper edge of the EUT Channel
$BW_{EUT} > 4x BW_{Inc}$	Three times	Closely to the lower edge ,in the middle and upper edge of the EUT Channel

- d. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step c table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- e. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT.
- f. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- g. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- h. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- i. Refer to step c table to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step d, choose a different center frequency for the AWGN signal and repeat the process.

4.7.5 EUT Operating Condition

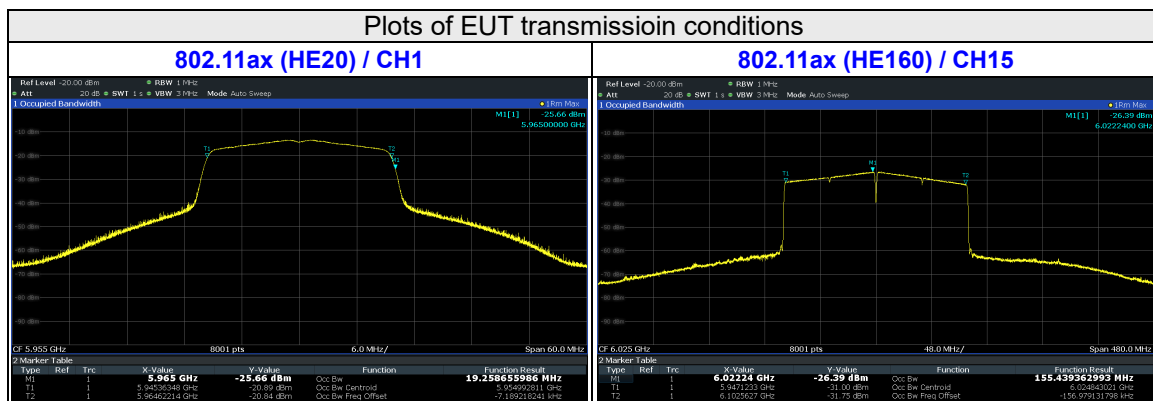
Set the EUT to transmit with a constant duty cycle and relative operating parameters which including power level, operating frequency, modulation and bandwidth.

4.7.6 Test Results

For U-NII-5 band

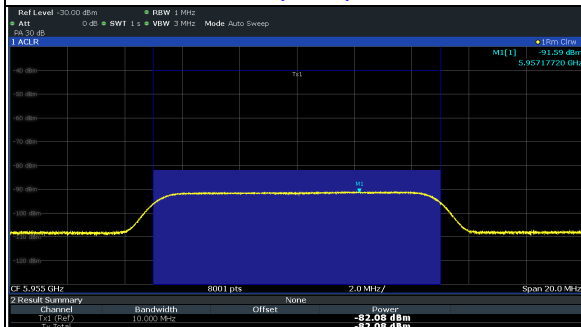
Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	Incumbent Signal Frequency (MHz)	Detection Level (dBm)	Detection Criterion (dBm)	Number of Trail	Number of Detected	Detection Ratio	Test Result
802.11ax	20	1	5955	5955	-83	-76.46	10	10	100%	Pass
				5950	-83	-76.46	10	10	100%	Pass
	160	15	6025	6025	-83	-76.46	10	10	100%	Pass
				6100	-83	-76.46	10	10	100%	Pass

Note: Detection criterion = -62dBm + min Gain (-14.46dBi) = -76.46 dBm.

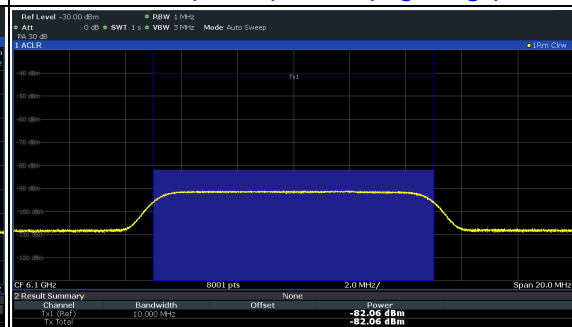


Plots of Incumbent signal (AWGN) level

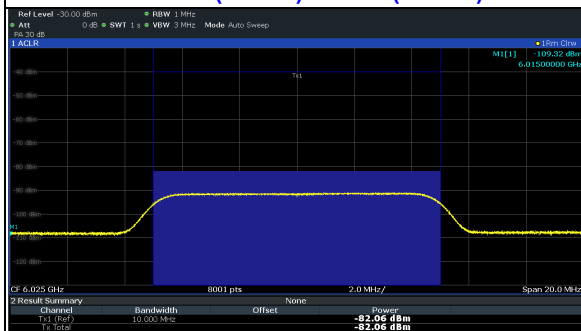
802.11ax (HE20) / CH1



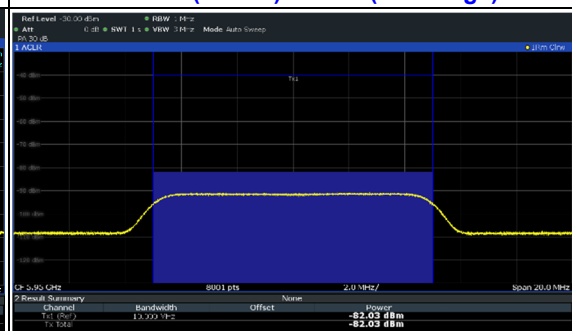
802.11ax (HE160) / CH15 (High Edge)



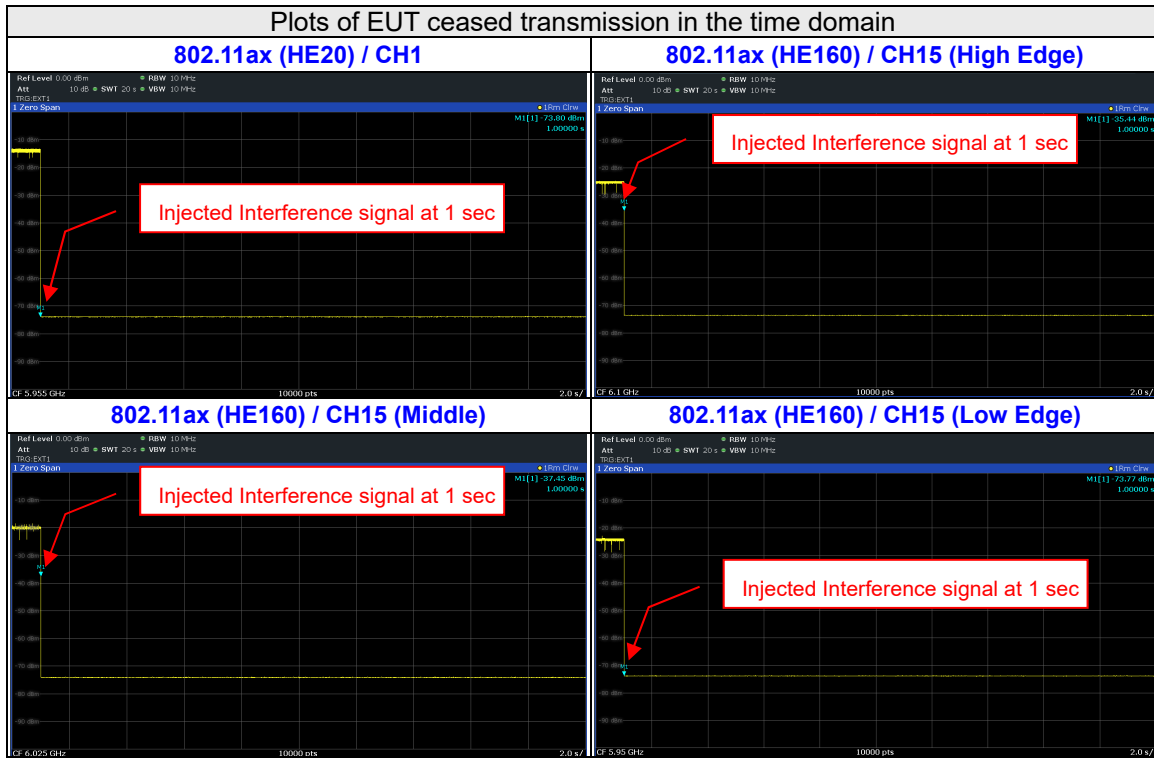
802.11ax (HE160) / CH15 (Middle)



802.11ax (HE160) / CH15 (Low Edge)



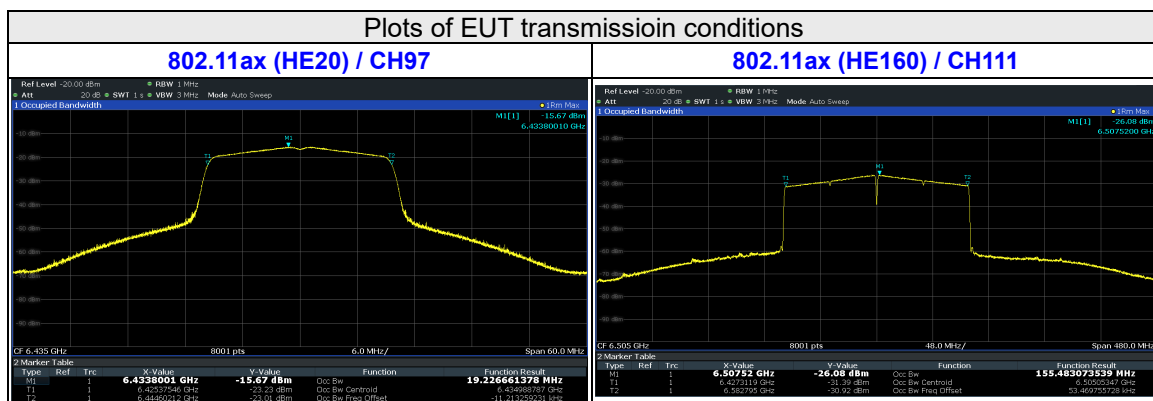
Plots of EUT ceased transmission in the time domain



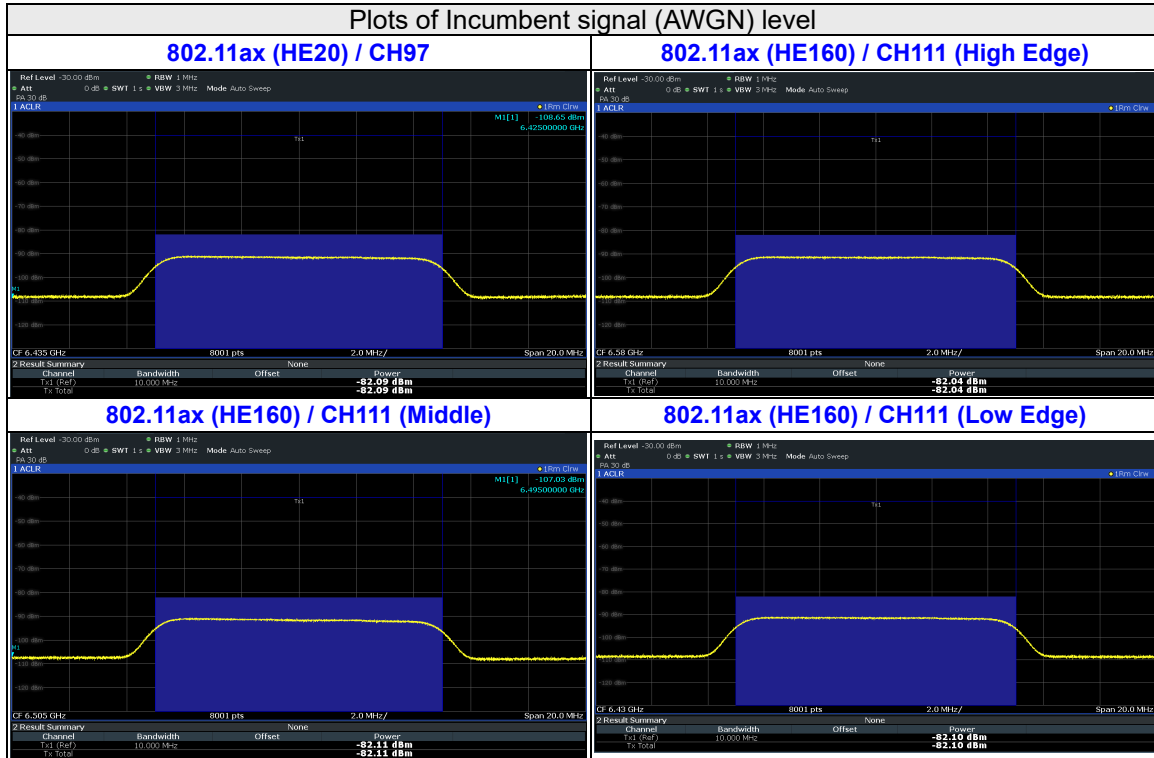
For U-NII-6 band

Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	Incumbent Signal Frequency (MHz)	Detection Level (dBm)	Detection Criterion (dBm)	Number of Trail	Number of Detected	Detection Ratio	Test Result
802.11ax	20	97	6435	6435	-83	-76.46	10	10	100%	Pass
				6430	-83	-76.46	10	10	100%	Pass
	160	111	6505	6505	-83	-76.46	10	10	100%	Pass
				6580	-83	-76.46	10	10	100%	Pass

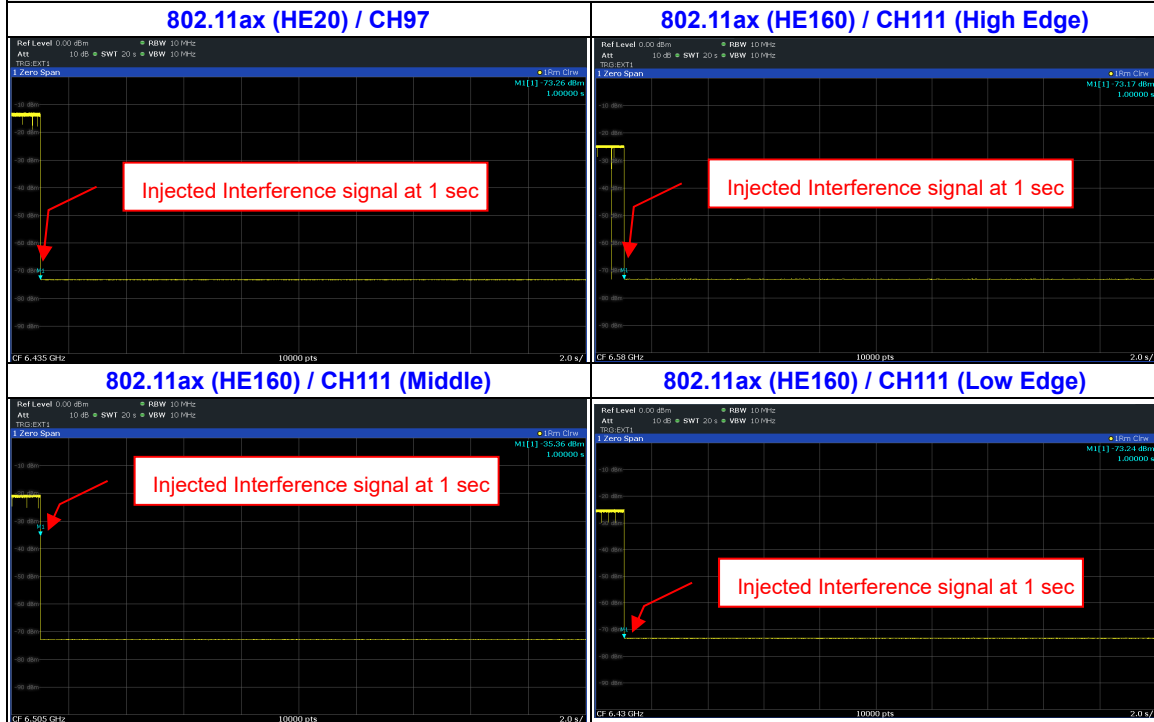
Note: Detection criterion = -62dBm + min Gain (-14.46dBi) = -76.46 dBm.



Plots of Incumbent signal (AWGN) level



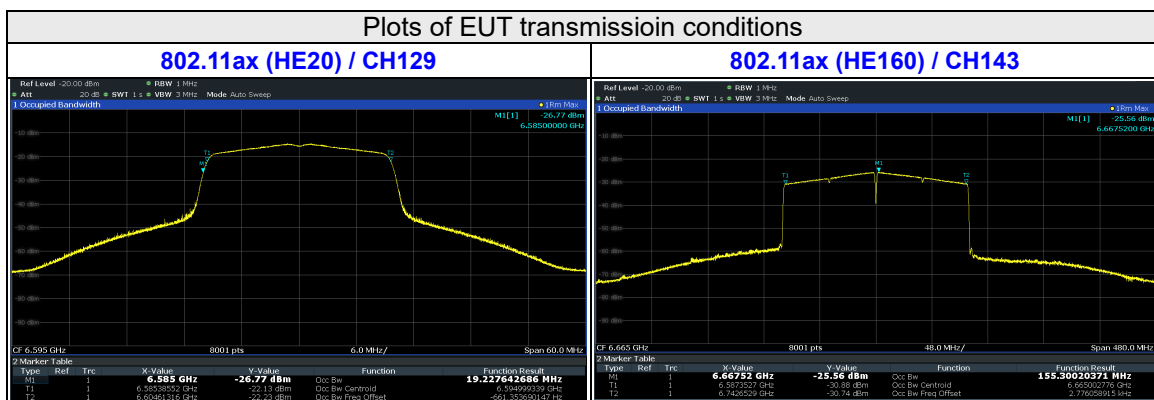
Plots of EUT ceased transmission in the time domain



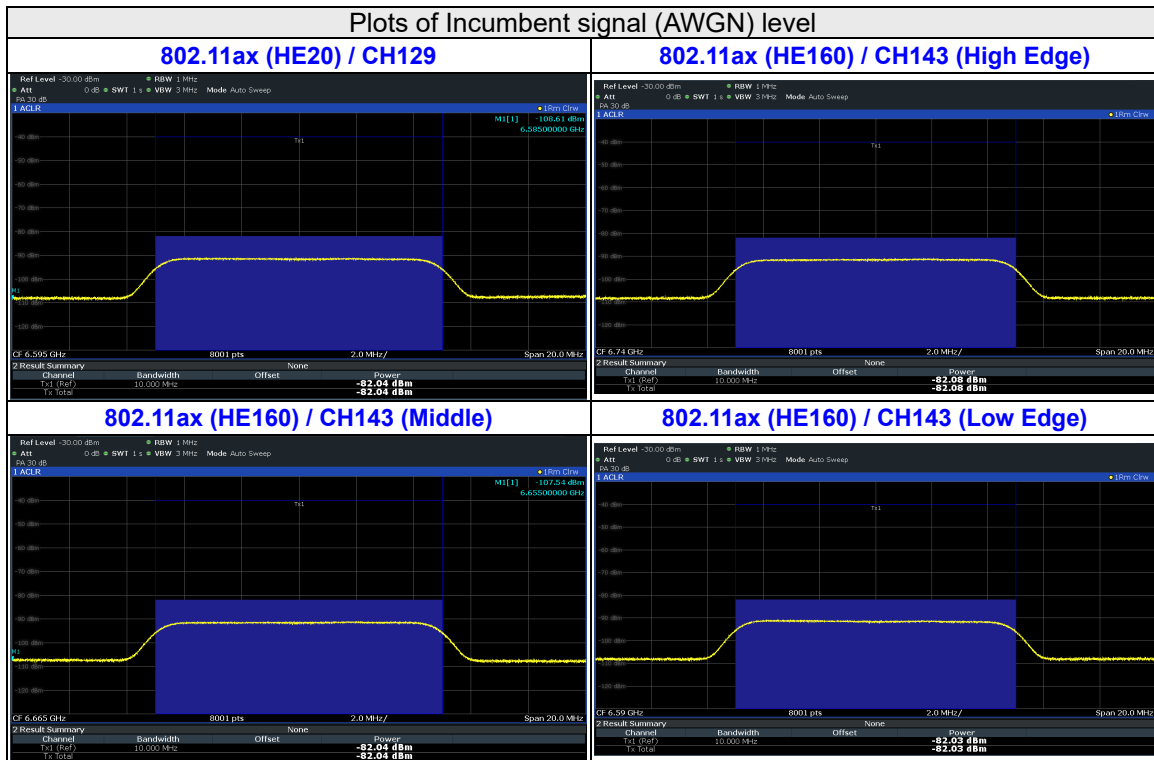
For U-NII-7 band

Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	Incumbent Signal Frequency (MHz)	Detection Level (dBm)	Detection Criterion (dBm)	Number of Trail	Number of Detected	Detection Ratio	Test Result
802.11ax	20	129	6595	6595	-83	-76.46	10	10	100%	Pass
				6590	-83	-76.46	10	10	100%	Pass
	160	143	6665	6665	-83	-76.46	10	10	100%	Pass
				6740	-83	-76.46	10	10	100%	Pass

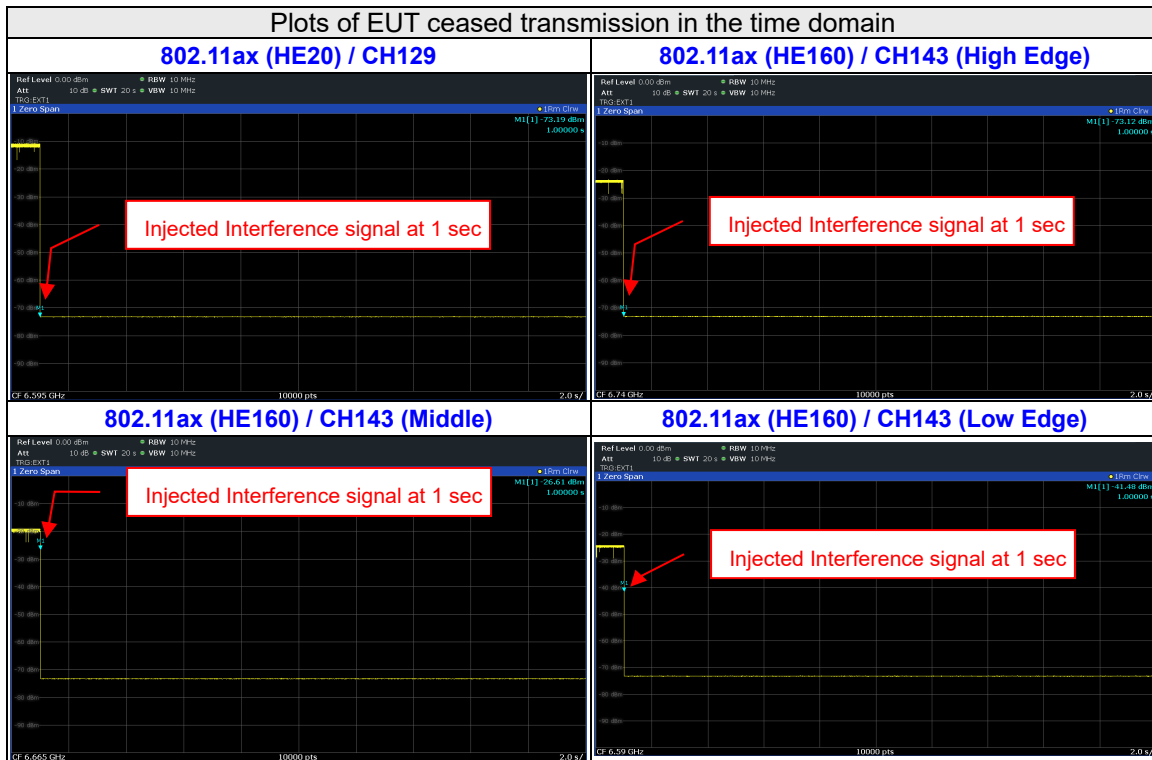
Note: Detection criterion = -62dBm + min Gain (-14.46dBi) = -76.46 dBm.



Plots of Incumbent signal (AWGN) level



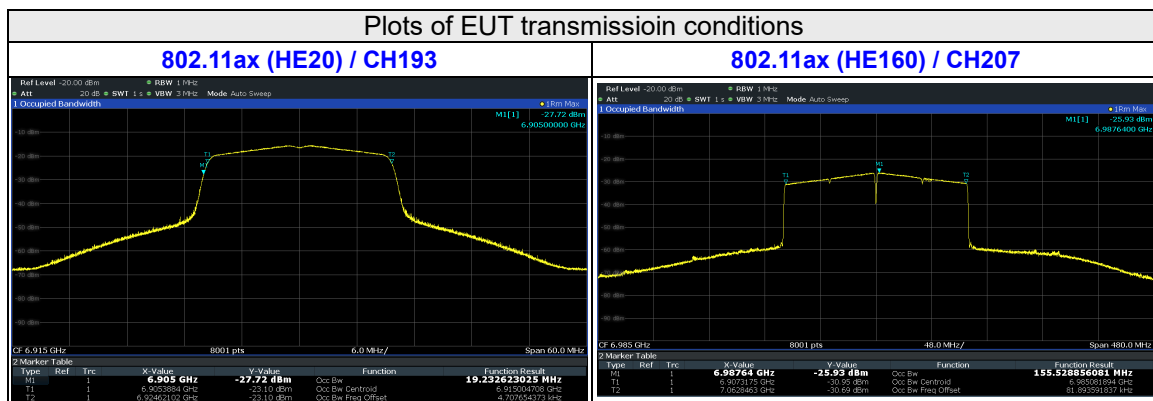
Plots of EUT ceased transmission in the time domain



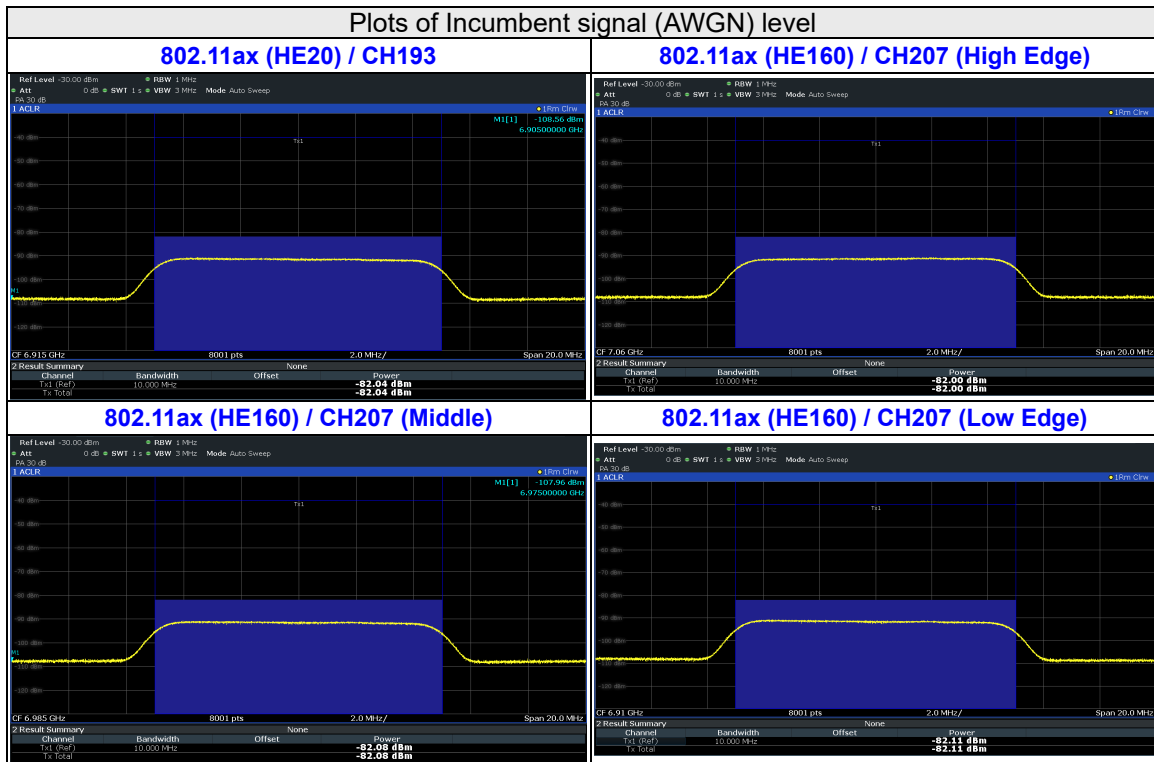
For U-NII-8 band

Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	Incumbent Signal Frequency (MHz)	Detection Level (dBm)	Detection Criterion (dBm)	Number of Trail	Number of Detected	Detection Ratio	Test Result
802.11ax	20	193	6915	6915	-83	-76.46	10	10	100%	Pass
				6910	-83	-76.46	10	10	100%	Pass
	160	207	6985	6985	-83	-76.46	10	10	100%	Pass
				7060	-83	-76.46	10	10	100%	Pass

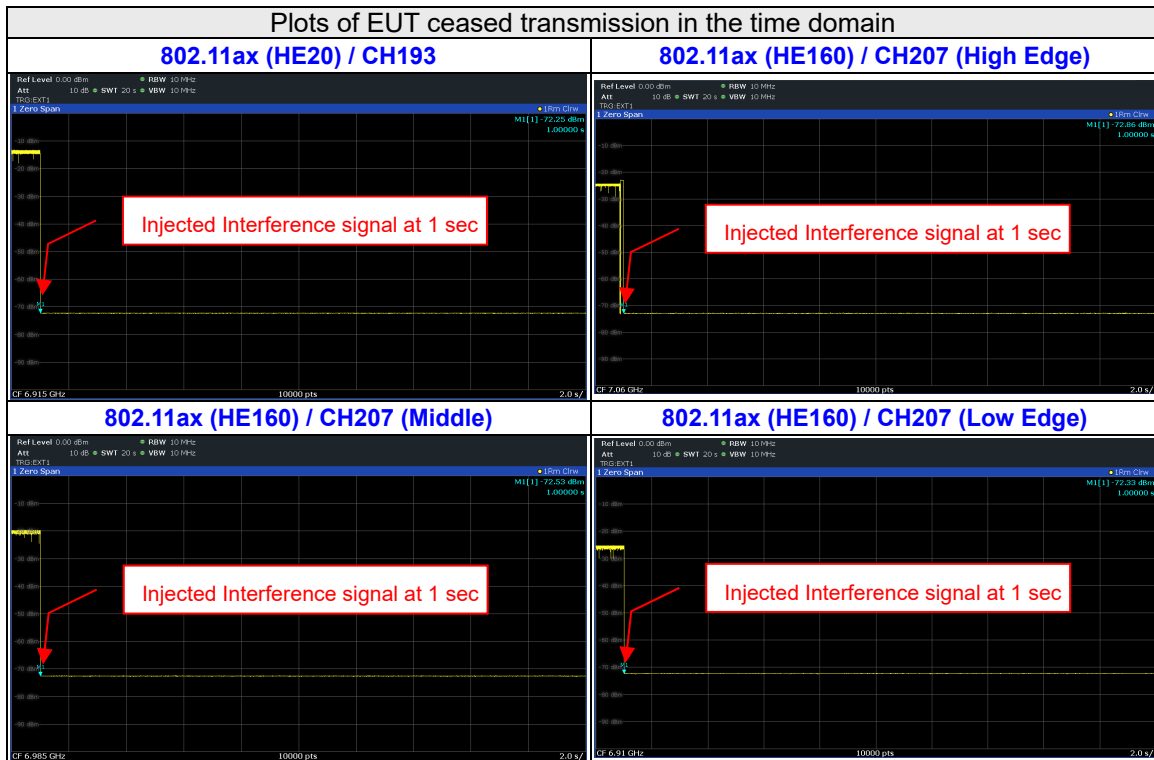
Note: Detection criterion = -62dBm + min Gain (-14.46dBi) = -76.46 dBm.



Plots of Incumbent signal (AWGN) level



Plots of EUT ceased transmission in the time domain

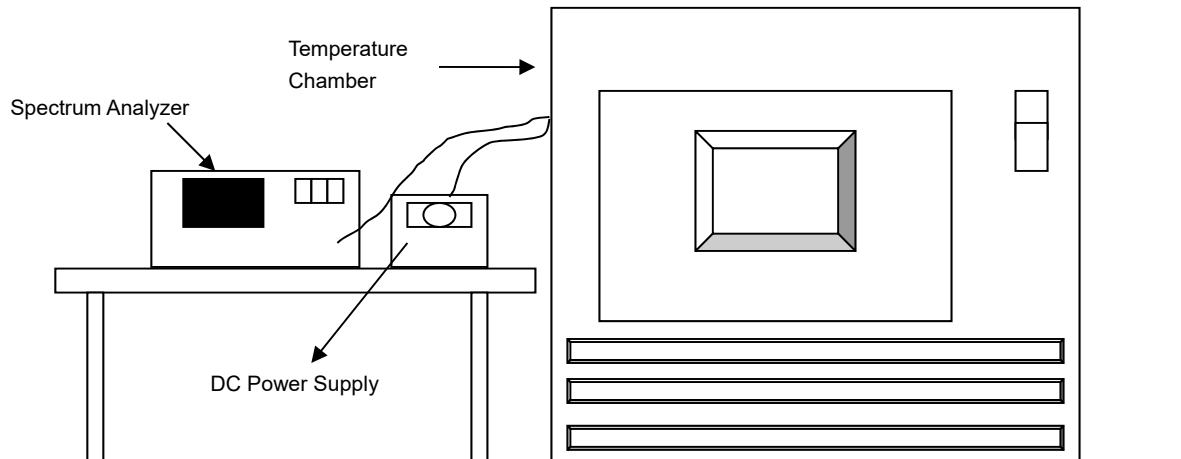


4.8 Frequency Stability Measurement

4.8.1 Limits of Frequency Stability Measurement

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

4.8.2 Test Setup



4.8.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.8.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC 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.

4.8.5 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

4.8.6 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5955MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
70	3.3	5954.9809	Pass	5954.9801	Pass	5954.981	Pass	5954.9815	Pass
60	3.3	5955.0124	Pass	5955.0124	Pass	5955.0104	Pass	5955.0101	Pass
50	3.3	5955.0082	Pass	5955.0099	Pass	5955.0115	Pass	5955.0113	Pass
40	3.3	5954.9697	Pass	5954.9705	Pass	5954.973	Pass	5954.9713	Pass
30	3.3	5954.9808	Pass	5954.9773	Pass	5954.9775	Pass	5954.9761	Pass
20	3.3	5954.972	Pass	5954.9768	Pass	5954.9745	Pass	5954.9739	Pass
10	3.3	5955.0111	Pass	5955.0116	Pass	5955.0133	Pass	5955.0113	Pass
0	3.3	5954.9919	Pass	5954.9919	Pass	5954.9947	Pass	5954.9919	Pass
-10	3.3	5954.9976	Pass	5954.9996	Pass	5955.0011	Pass	5954.9963	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5955MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	3.795	5954.9703	Pass	5954.9755	Pass	5954.9716	Pass	5954.972	Pass
	3.3	5954.972	Pass	5954.9768	Pass	5954.9745	Pass	5954.9739	Pass
	2.805	5954.9631	Pass	5954.9613	Pass	5954.9623	Pass	5954.9613	Pass

4.9 Operational Restrictions for 6GHz U-NII Devices

4.9.1 Limits of Operational Restrictions for 6 GHz U-NII Devices

- (1) Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.
- (2) Transmitters operating under indoor client are limited to indoor locations.
- (3) In the 5.925-7.125 GHz band, client devices must operate under the control of a indoor access point or subordinate devices; In all cases, an exception exists for transmitting brief messages to an access point when attempting to join its network after detecting a signal that confirms that an access point is operating on a particular channel. Client devices are prohibited from connecting directly to another client device.
- (4) Client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

4.9.2 Test Setup

N/A

4.9.3 Test Instruments

N/A

4.9.4 Test Procedure

N/A.

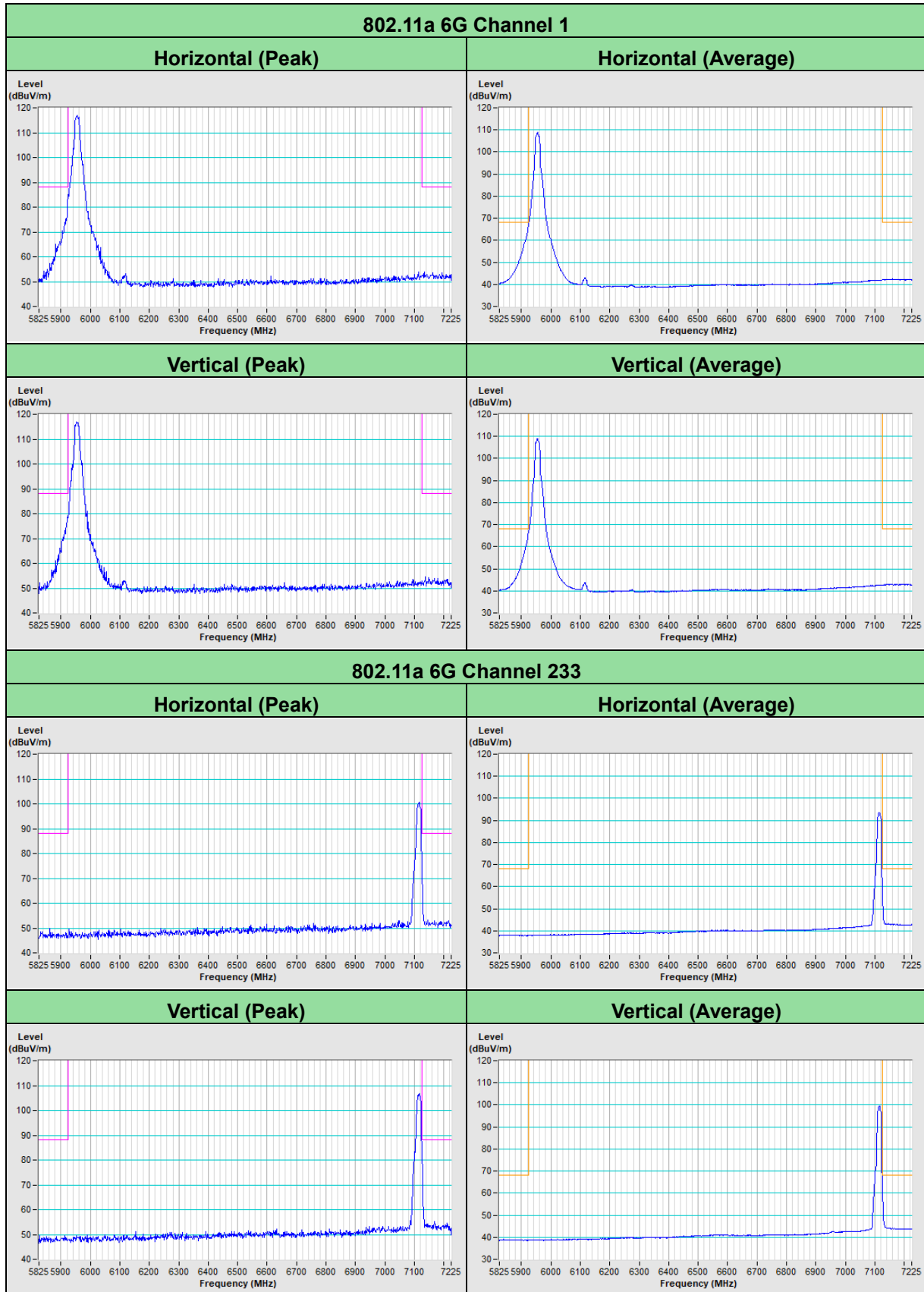
4.9.5 Test Results

Device is an indoor client device, all restrictions are meet the §15.407 (d) requirements. Please refer to the Attestation letter exhibit supplied within this application

5 Pictures of Test Arrangements

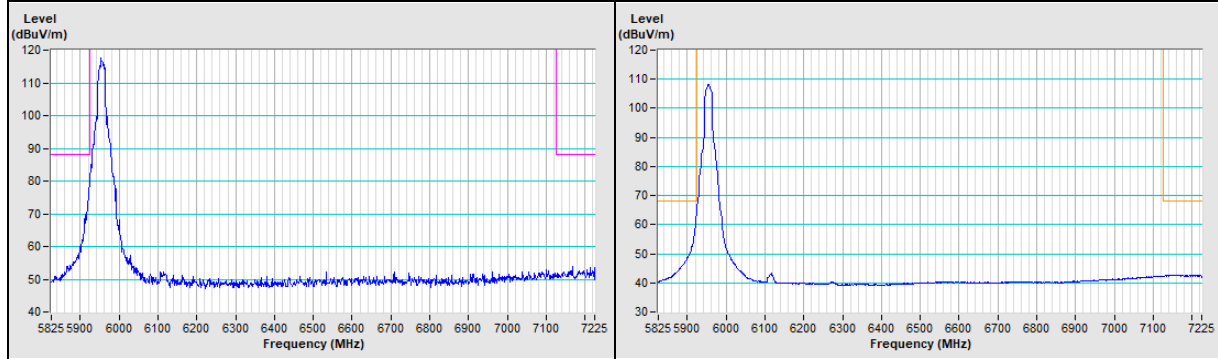
Please refer to the attached file (Test Setup Photo).

Annex A - Band-Edge Measurement

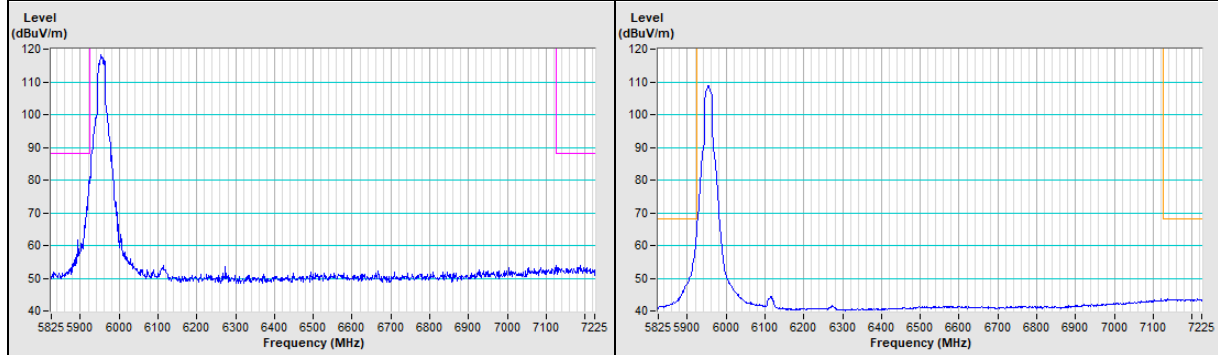


802.11ax (HE20) Channel 1

Horizontal (Peak)	Horizontal (Average)
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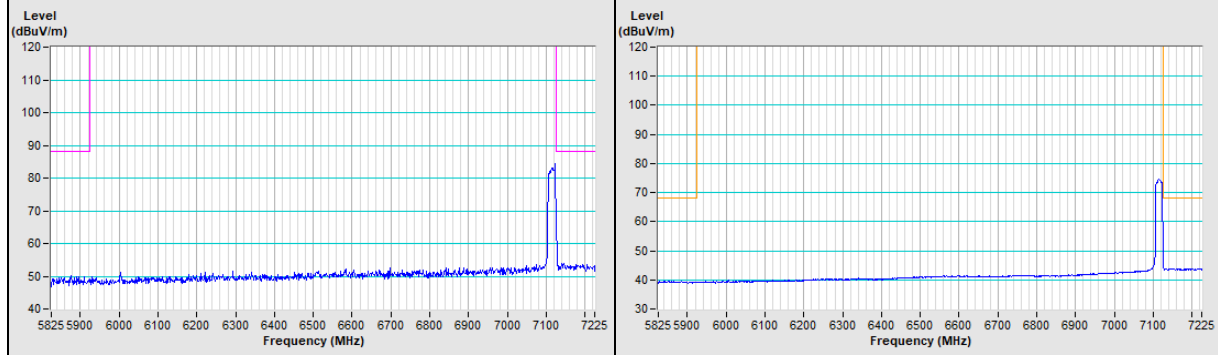


Vertical (Peak)	Vertical (Average)
-----------------	--------------------

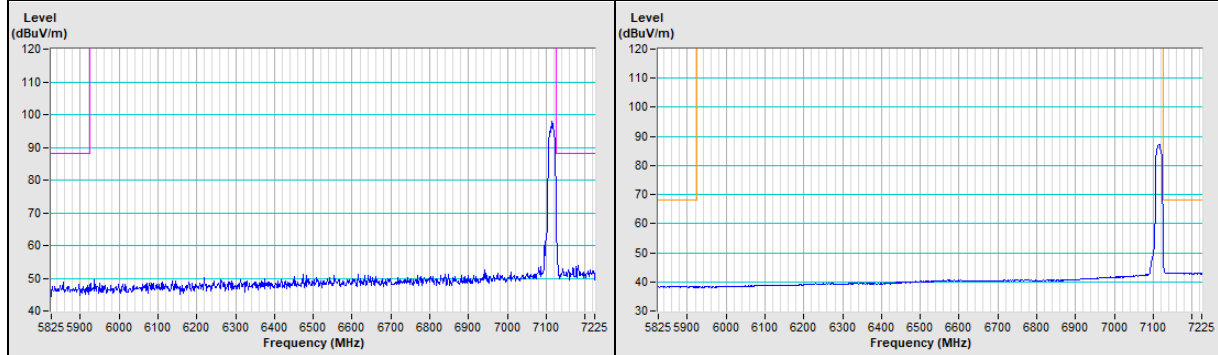


802.11ax (HE20) Channel 233

Horizontal (Peak)	Horizontal (Average)
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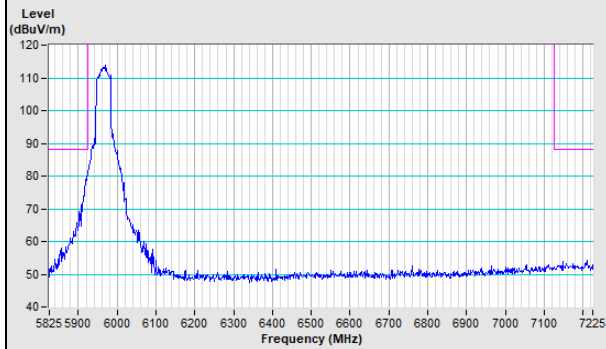


Vertical (Peak)	Vertical (Average)
-----------------	--------------------

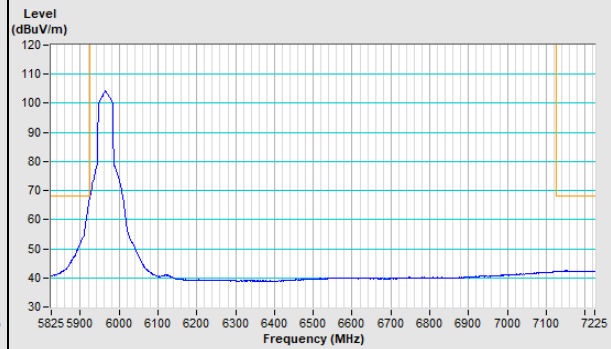


802.11ax (HE40) Channel 3

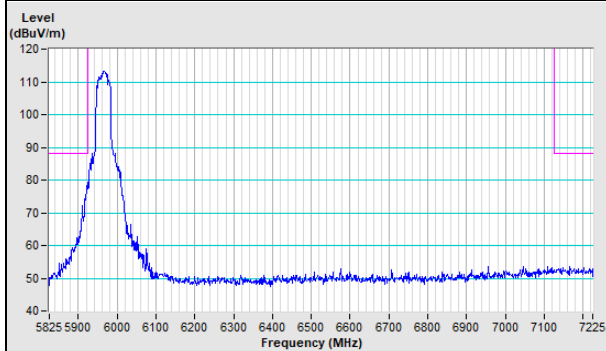
Horizontal (Peak)



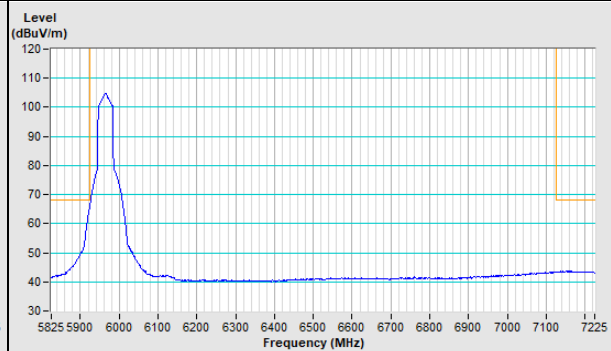
Horizontal (Average)



Vertical (Peak)

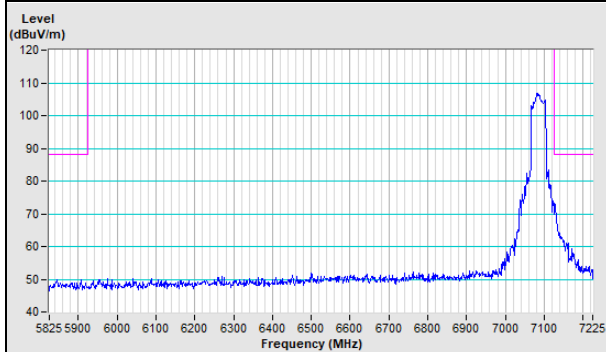


Vertical (Average)

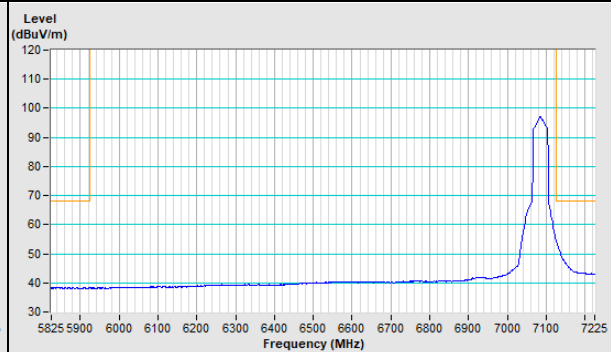


802.11ax (HE40) Channel 227

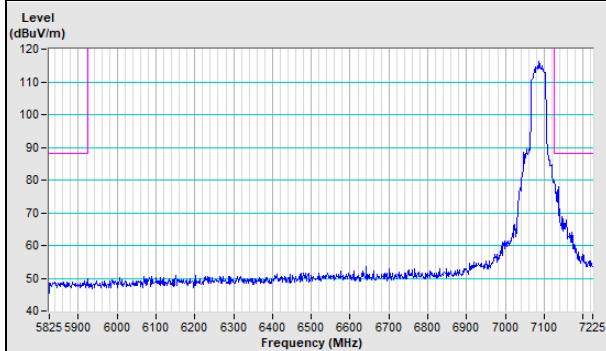
Horizontal (Peak)



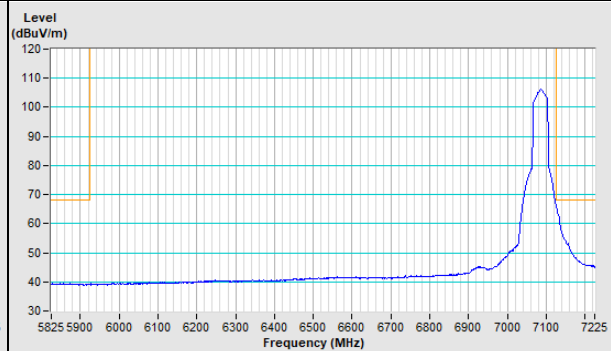
Horizontal (Average)



Vertical (Peak)

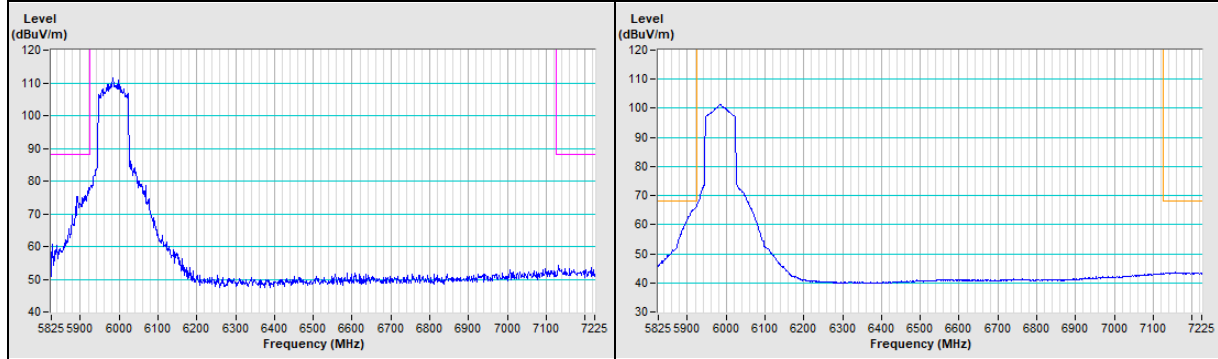


Vertical (Average)

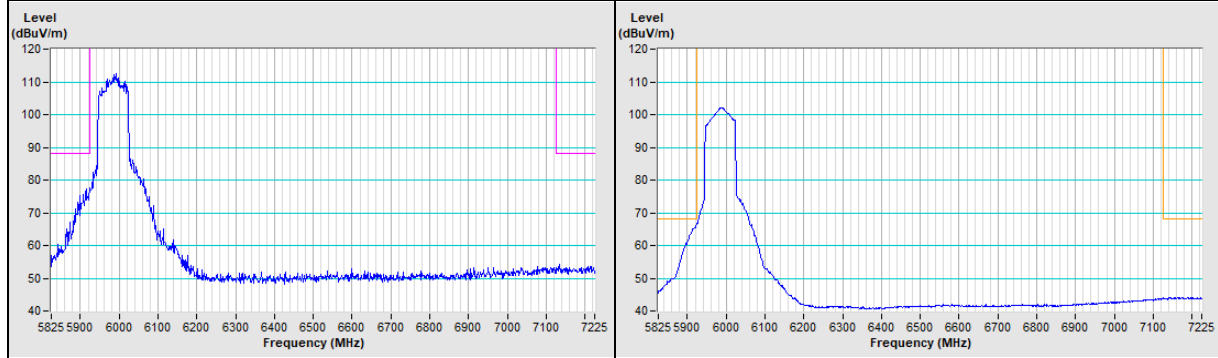


802.11ax (HE80) Channel 7

Horizontal (Peak)	Horizontal (Average)
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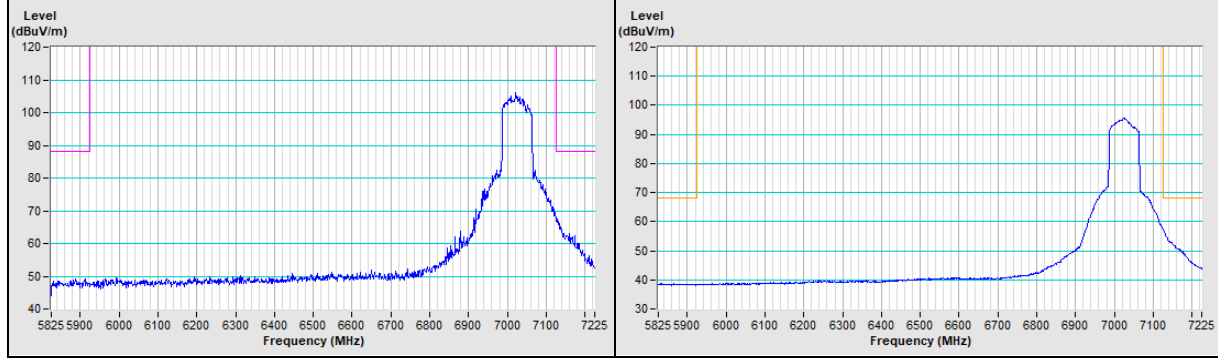


Vertical (Peak)	Vertical (Average)
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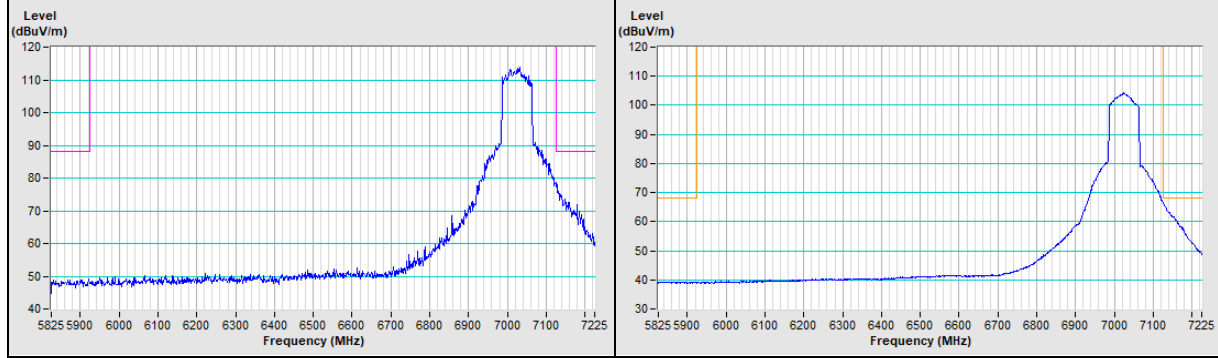


802.11ax (HE80) Channel 215

Horizontal (Peak)	Horizontal (Average)
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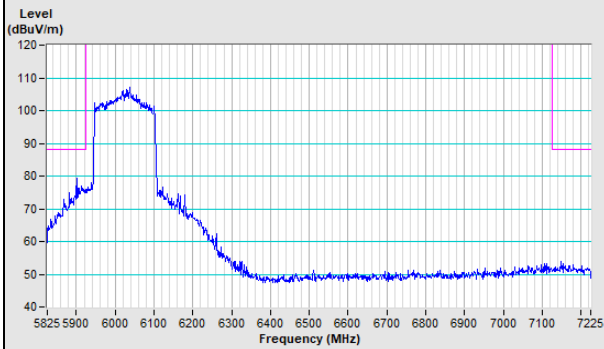


Vertical (Peak)	Vertical (Average)
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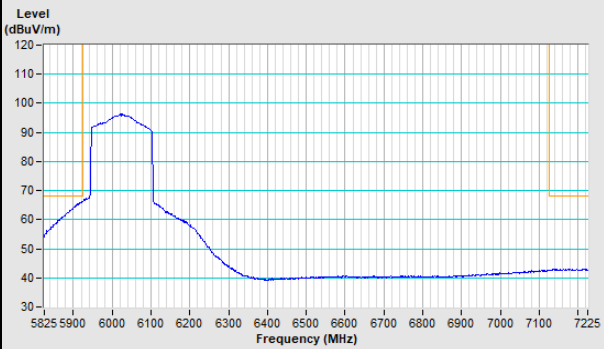


802.11ax (HE160) Channel 15

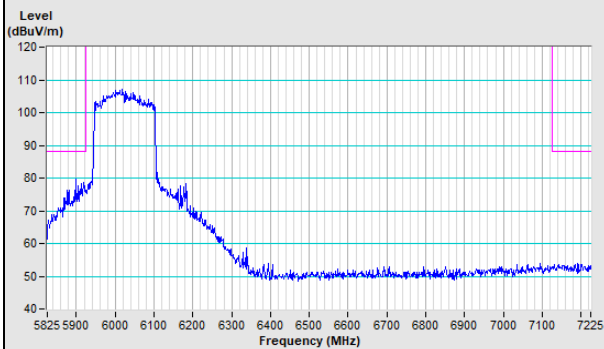
Horizontal (Peak)



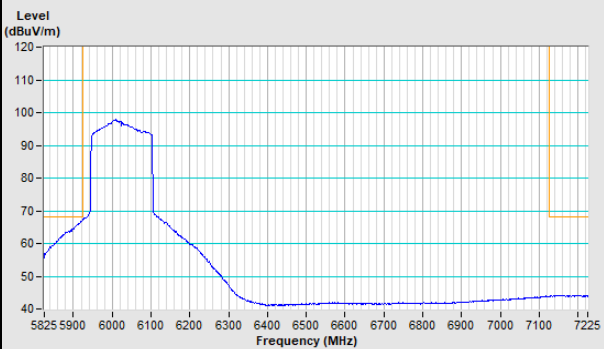
Horizontal (Average)



Vertical (Peak)

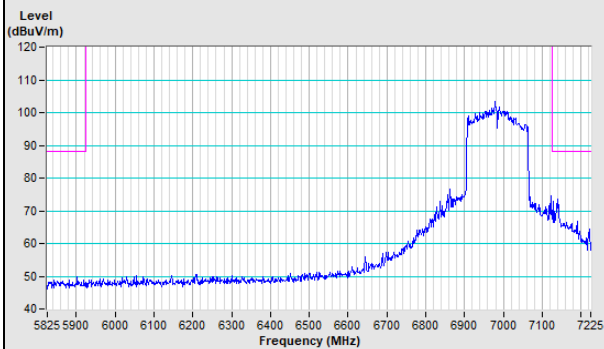


Vertical (Average)

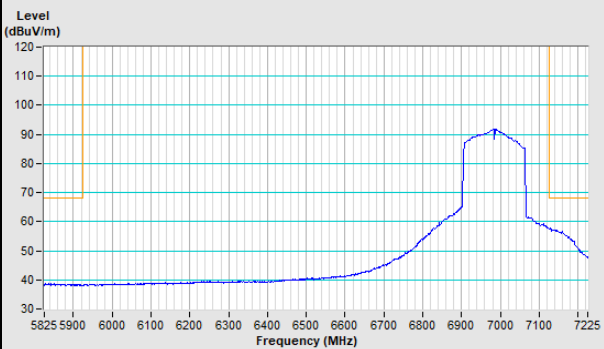


802.11ax (HE160) Channel 207

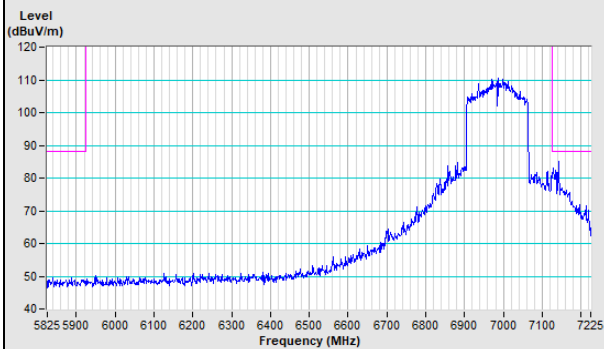
Horizontal (Peak)



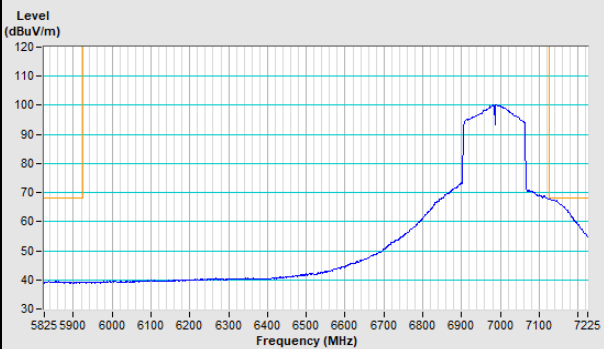
Horizontal (Average)

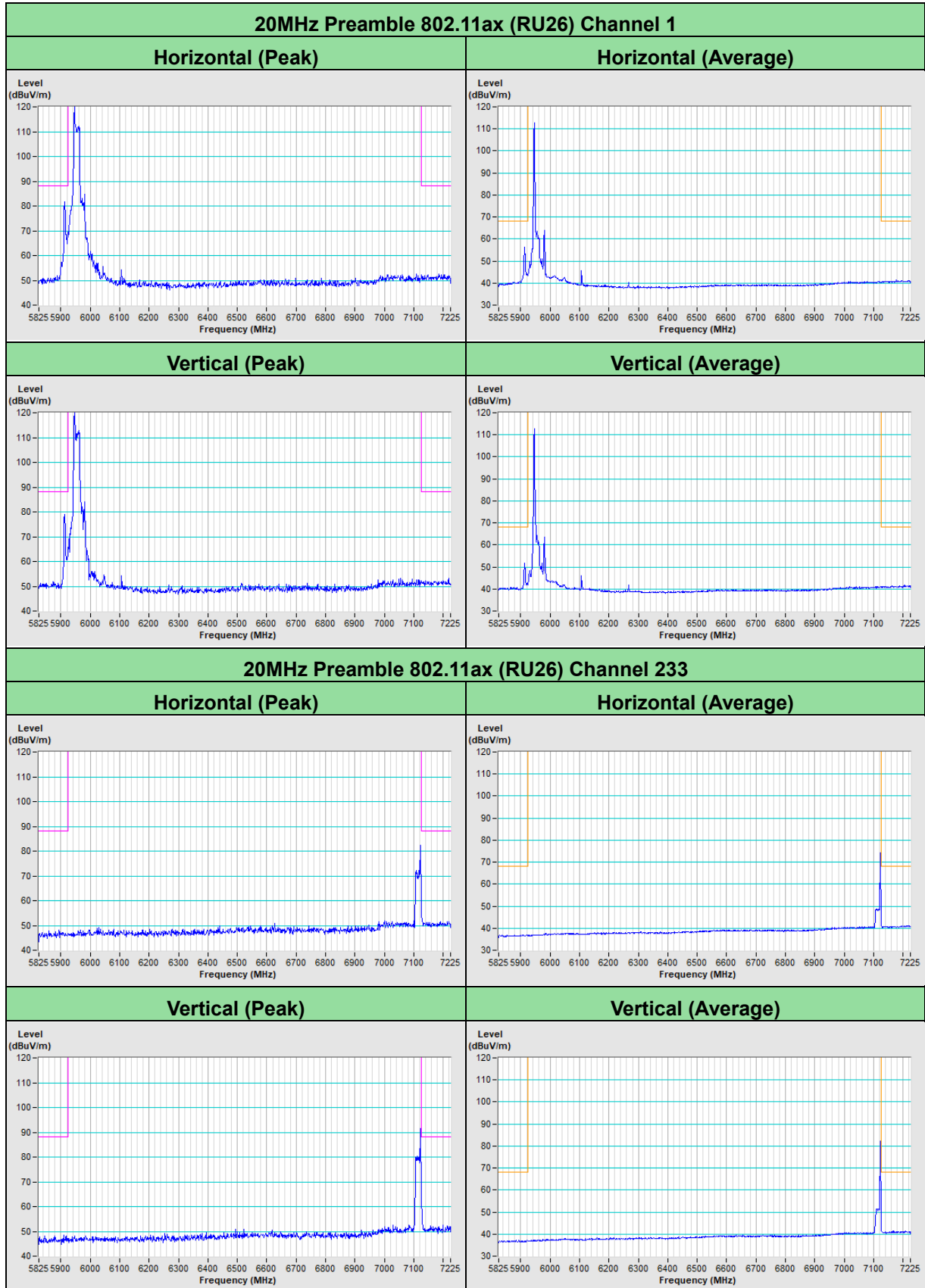


Vertical (Peak)



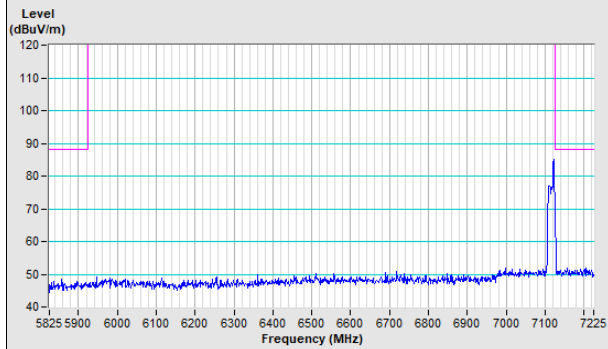
Vertical (Average)



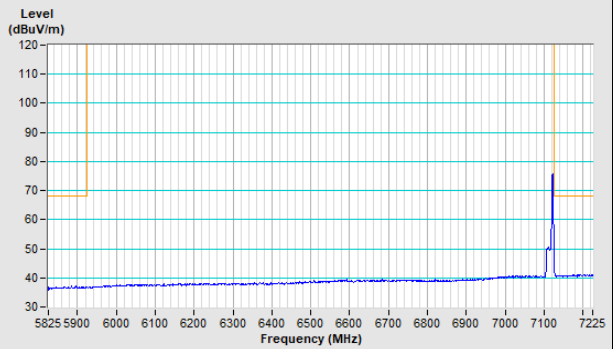


20MHz Preamble 802.11ax (RU52) Channel 233

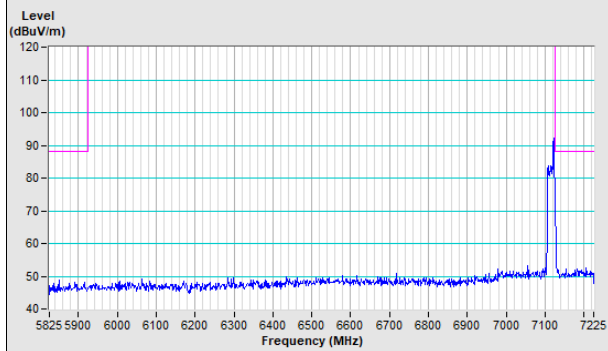
Horizontal (Peak)



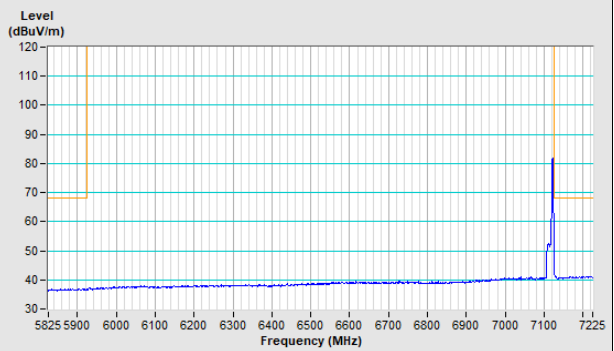
Horizontal (Average)



Vertical (Peak)

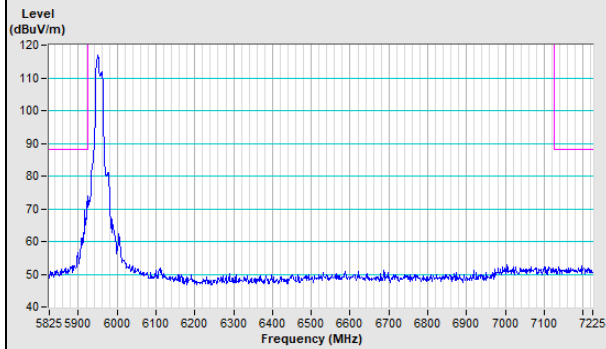


Vertical (Average)

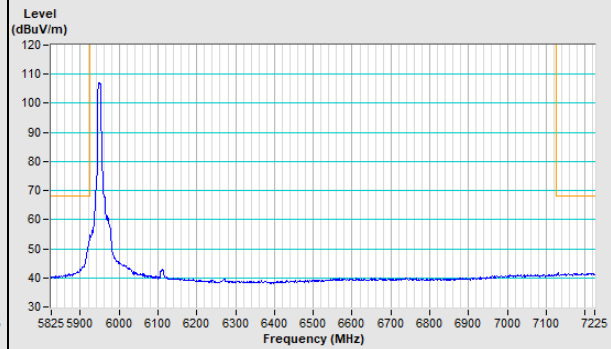


20MHz Preamble 802.11ax (RU106) Channel 1

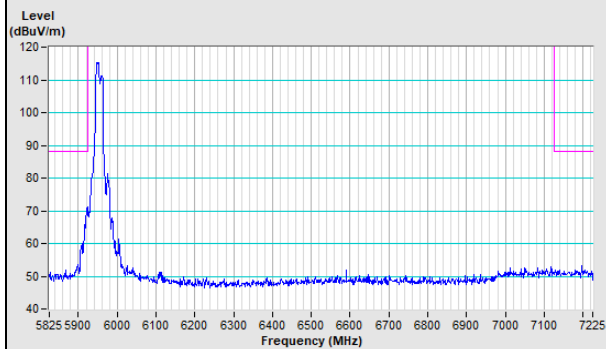
Horizontal (Peak)



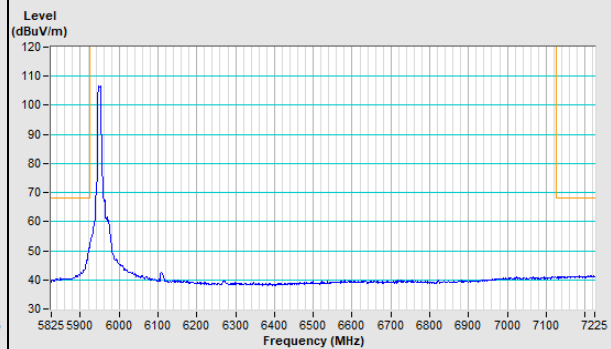
Horizontal (Average)



Vertical (Peak)

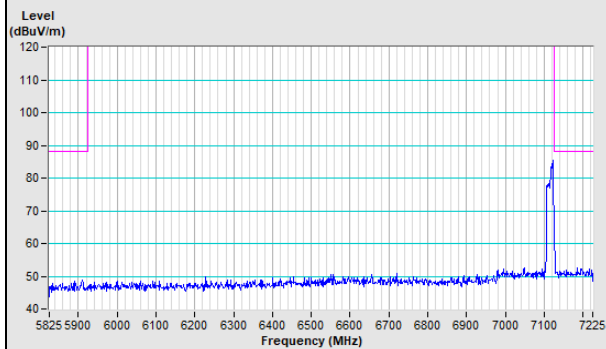


Vertical (Average)

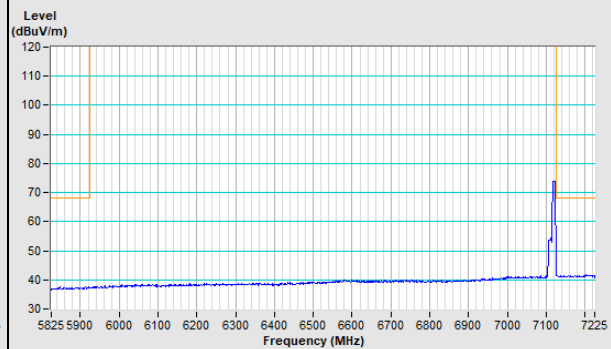


20MHz Preamble 802.11ax (RU106) Channel 233

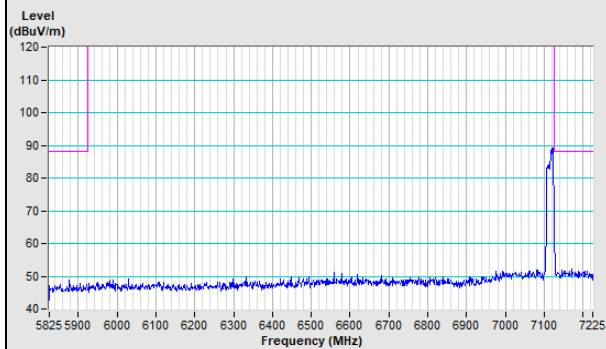
Horizontal (Peak)



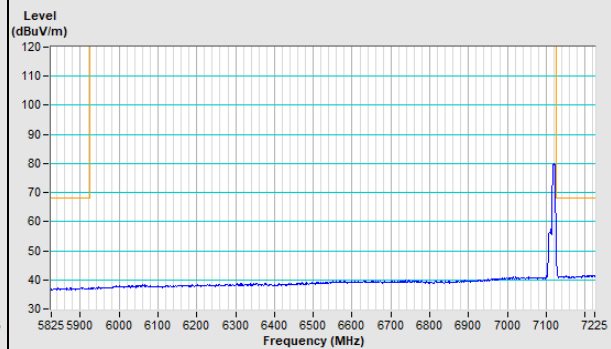
Horizontal (Average)



Vertical (Peak)



Vertical (Average)



Appendix – 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.

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Web Site: www.bureauveritas-adt.com

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

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