

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBEIH-WTW-P22120764-5

FCC ID: P27IP6442B

Product: WiFi 6E Router

Brand: Charter Spectrum

Model No.: SAX2V1R

Received Date: 2023/2/20

Test Date: 2023/3/4 ~ 2023/4/16

Issued Date: 2023/4/25

Applicant: Sercomm Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003

Designation Number:

Approved by:

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Jeremy Lin / Project Engineer

, Date:

2023/4/25

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Prepared by : Celine Chou / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBEIH-WTW-P22120764-5	Original release.	2023/4/25

1 Certificate

Product: WiFi 6E Router

Brand: Charter Spectrum

Test Model: SAX2V1R

Sample Status: Engineering sample

Applicant: Sercomm Corporation

Test Date: 2023/3/4 ~ 2023/4/16

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

Measurement ANSI C63.10-2013

procedure: KDB 291074 D02 EMC Measurement v01

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -9.18 dB at 0.37800 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.4 dB at 55.59 MHz
15.407(b)(5) 15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -1.0 dB at 5624.65 MHz
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.403	Operational restrictions U-NII 4 devices	-	Declaration by applicant.
15.203	Antenna Requirement	Pass	No antenna connector is used.

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:

Parameter	Specification	Uncertainty (±)
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.99 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.02 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.01 dB
	18 GHz ~ 40 GHz	1.15 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	WiFi 6E Router
Brand	Charter Spectrum
Test Model	SAX2V1R
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from Adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 4803.9 Mbps
Operating Frequency	5.845 GHz ~ 5.885 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):3 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):2 802.11ac (VHT80), 802.11ax (HE80):1 802.11ac (VHT160), 802.11ax (HE160):1
Output Power	EIRP: 2123.244 mW (33.27 dBm)
EUT Category	Indoor access point

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
Adapter 1	Netbit	NBS36J120300VU	AC Input : 100-120V, 50/60Hz, 1.0A DC Output : 12.0V, 3.0A DC Output Cable : non-shielded, 1.8m
Adapter 2	Delta	ADH-36L WB	AC Input : 100-120V, 50/60Hz, 1.0A DC Output : 12.0V, 3.0A DC Output Cable : non-shielded, 1.8m
Adapter 3	Challenger	PS-2.5-12-3WT3	AC Input : 100-120V, 50/60Hz, 1.0A DC Output : 12.0V, 3.0A DC Output Cable : non-shielded, 1.8m
LAN cable	-	-	1.0m, non shielded, without core

* For unwanted emissions, after pre-tested, Adapter 1 was the worst case final test.

* For power conducted emissions, adapter 1, 2, and 3 were chosen for final test.

2. There are Bluetooth, Thread and WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.

* WLAN 2.4 GHz & WLAN 5 GHz & WLAN 6 GHz technology can transmit at same time.

* WLAN 2.4 GHz & WLAN 5.9 GHz & WLAN 6 GHz technology can transmit at same time.

* WLAN & Bluetooth & Thread technology cannot transmit at same time.

3. The EUT has two groups for test as below:

Group 1	Group 2
2.5G_A0, 2.5G_A2, 5.6G_A2-1, 5.6G_A3-1	2.5G_A1, 2.5G_A3, 5.6G_A2-2, 5.6G_A3-2

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	Gain (dBi)	Antenna Type	Connector Type
2.5G_A0	6	PCB	ipex(MHF)
2.5G_A1	4.6		
2.5G_A2	5.1		
2.5G_A3	5.9		
5.6G_A2-1	5.0		
5.6G_A2-2	4.0		
5.6G_A3-1	5.2		
5.6G_A3-2	4.2		

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

2. The EUT incorporates a MIMO function:

Modulation Mode	CDD Mode	Beamforming Mode	Tx & Rx Configuration	
802.11a	Support	Not Support	4TX	4RX
802.11n (HT20)	Support	Support	4TX	4RX
802.11n (HT40)	Support	Support	4TX	4RX
802.11ac (VHT20)	Support	Support	4TX	4RX
802.11ac (VHT40)	Support	Support	4TX	4RX
802.11ac (VHT80)	Support	Support	4TX	4RX
802.11ac (VHT160)	Support	Support	4TX	4RX
802.11ax (HE20)	Support	Support	4TX	4RX
802.11ax (HE40)	Support	Support	4TX	4RX
802.11ax (HE80)	Support	Support	4TX	4RX
802.11ax (HE160)	Support	Support	4TX	4RX

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax or more lower than it and investigated worst case to representative mode in test report.
4. For 802.11ax, the EUT not support Partial RU.

3.3 Channel List

FOR 5845 ~ 5885 MHz

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
*169	5845 MHz	173	5865 MHz	177	5885 MHz

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

Channel	Frequency	Channel	Frequency
*167	5835 MHz	175	5875 MHz

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

Channel	Frequency
*171	5855 MHz

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

Channel	Frequency
*163	5815 MHz

Note: * U-NII-3 & -4 span channels.

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	EUT antenna has two configurations: Group 1 and Group 2, Pre-scan Group 1 and Group 2, find the worst case as a representative test condition.
Worst Case:	Group 1 and Group 2 worst condition: Group 1 is the worse case.

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

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	A	802.11a	CDD	169, 173, 177	BPSK	6Mb/s
		802.11ax (HE20)	CDD & Beamforming	169, 173, 177	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	167, 175	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	171	BPSK	MCS0
		802.11ax (HE160)	CDD & Beamforming	163	BPSK	MCS0
Power Spectral Density / 6 dB Bandwidth	A	802.11a	CDD	169, 173, 177	BPSK	6Mb/s
		802.11ax (HE20)	CDD	169, 173, 177	BPSK	MCS0
		802.11ax (HE40)	CDD	167, 175	BPSK	MCS0
		802.11ax (HE80)	CDD	171	BPSK	MCS0
		802.11ax (HE160)	CDD	163	BPSK	MCS0
Frequency Stability	A	802.11a	-	173	un-modulation	-
AC Power Conducted Emissions	A, B	802.11ax (HE80)	CDD	171	BPSK	MCS0
Unwanted Emissions below 1 GHz	A, B	802.11ax (HE80)	CDD	171	BPSK	MCS0
Unwanted Emissions above 1 GHz	A, B	802.11a	CDD	169, 173, 177	BPSK	6Mb/s
		802.11ax (HE20)	CDD & Beamforming	169, 173, 177	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	167, 175	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	171	BPSK	MCS0
		802.11ax (HE160)	CDD & Beamforming	163	BPSK	MCS0
EUT Configure Mode:	A	EUT + Antenna Group 1				
	B	EUT + Antenna Group 2				

Note: The EUT is designed to be positioned on **Z-Plane** only.

3.5 Duty Cycle of Test Signal

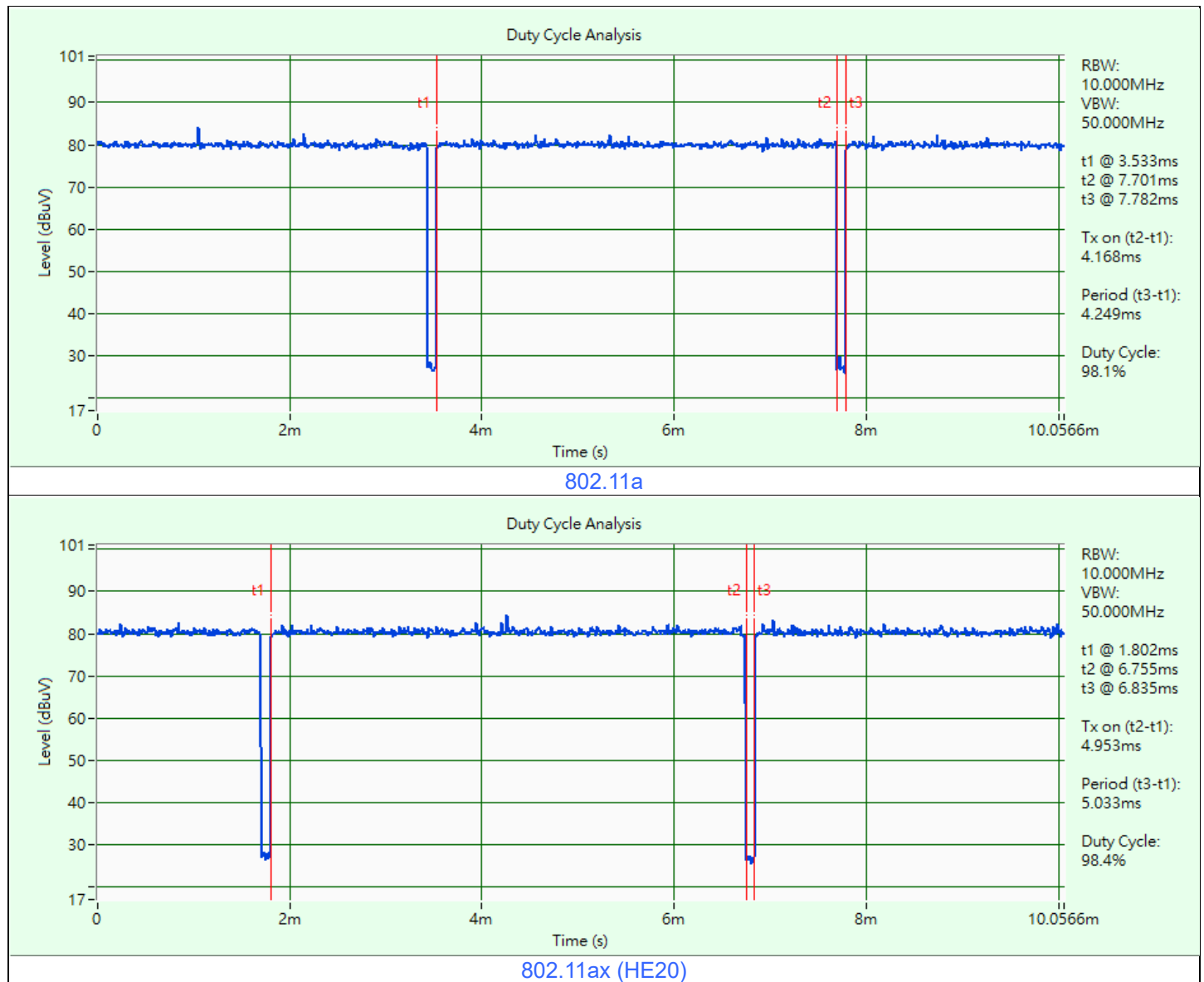
802.11a: Duty cycle = 4.168 ms / 4.249 ms x 100% = 98.1%

802.11ax (HE20): Duty cycle = 4.953 ms / 5.033 ms x 100% = 98.4%

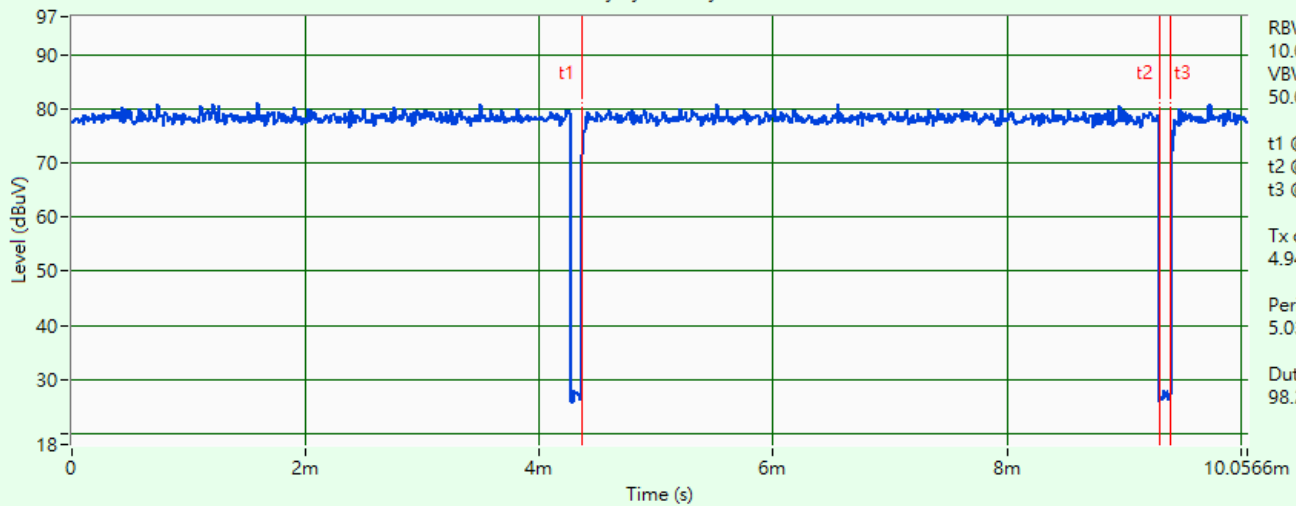
802.11ax (HE40): Duty cycle = 4.943 ms / 5.033 ms x 100% = 98.2%

802.11ax (HE80): Duty cycle = 4.943 ms / 5.033 ms x 100% = 98.2%

802.11ax (HE160): Duty cycle = 4.168 ms / 4.248 ms x 100% = 98.1%

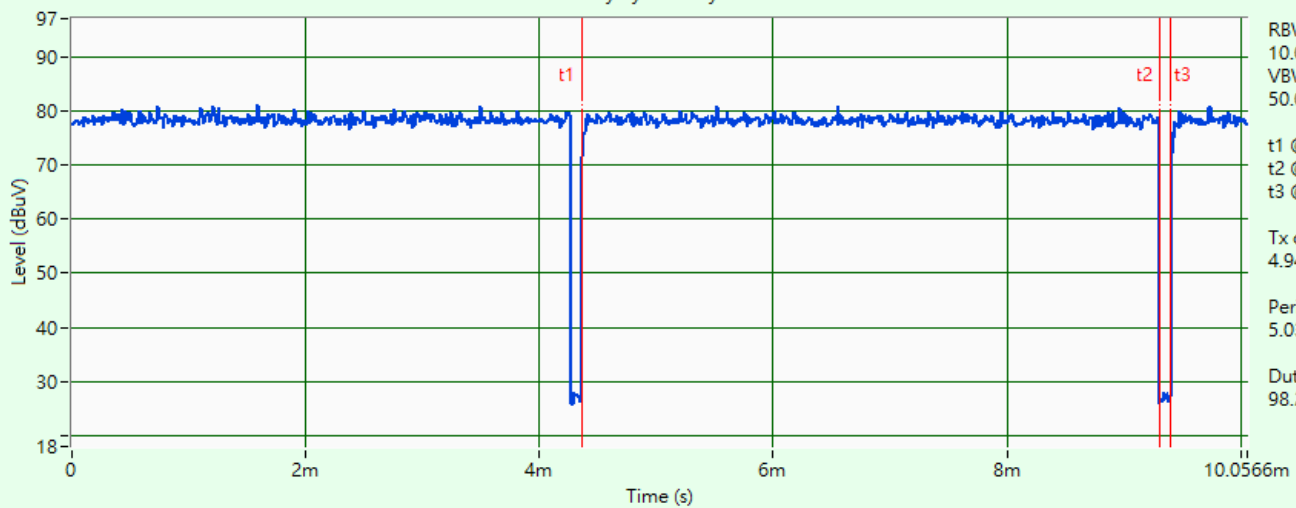


Duty Cycle Analysis



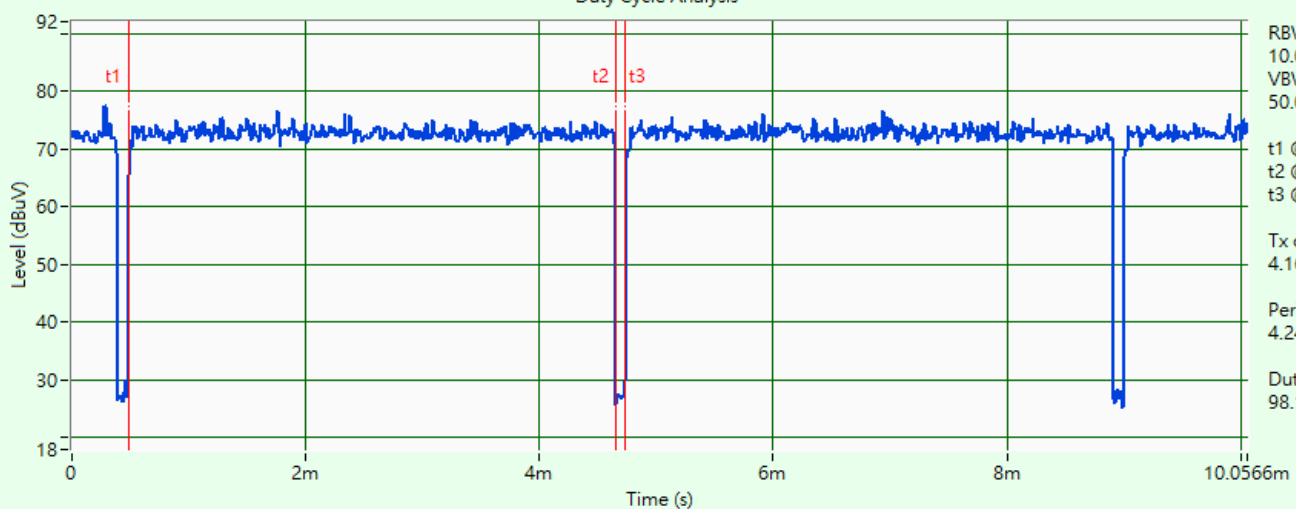
802.11ax (HE40)

Duty Cycle Analysis



802.11ax (HE80)

Duty Cycle Analysis

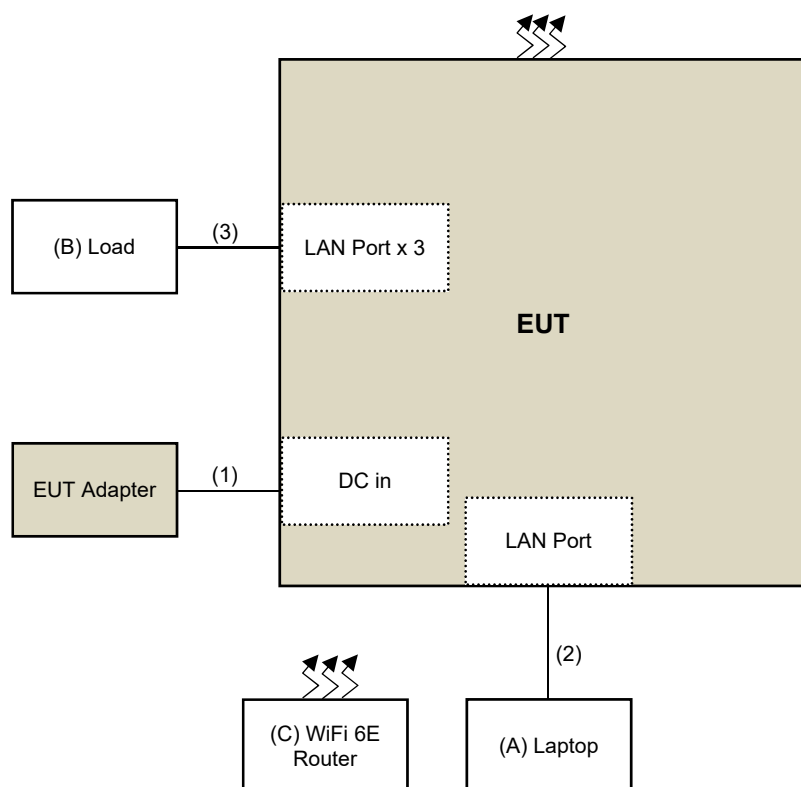


802.11ax (HE160)

3.6 Test Program Used and Operation Descriptions

Controlling software (accessMTool_3_3_0_1 for CDD mode and Terminal for Beamforming mode) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	80WG	YD01YRC9	N/A	Provided by Lab
B	Load	N/A	N/A	N/A	N/A	Provided by Lab
C	WiFi 6E Router	Charter Spectrum	SAX2V1R	N/A	P27IP6442B	Provided by Client For Beamforming mode only

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC cable	1	1.8	N	0	Supplied by applicant
2	LAN Cable	1	1.0	N	0	Accessory of EUT
3	LAN Cable	3	1.5	N	0	Provided by Lab

4 Test Instruments

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

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	UNAT_5+	PAD-CH6-01	N/A	N/A
Antenna Tower Controller Max-Full	MF-7802	N/A	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	8	N/A	N/A
Horn Antenna ETS-Lindgren	3117	00143293	2022/11/13	2023/11/12
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170241	2022/10/20	2023/10/19
Pre-Amplifier EMCI	EMC 184045	980116	2022/10/1	2023/9/30
Preamplifier Agilent	83017A	MY39501373	2022/6/14	2023/6/13
RF Coaxial Cable ETS-Lindgren	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4	2022/6/14	2023/6/13
	RFC-SMS-100-SMS-24-IN	Cable-CH1-02(RFC-SMS-100-SMS-24)	2022/6/14	2023/6/13
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2023/1/7	2024/1/6
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2023/1/7	2024/1/6
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Test Receiver Agilent	N9038A	MY52260177	2022/9/19	2023/9/18
Turn Table Max-Full	TT-1510	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802	N/A	N/A	N/A

Notes:

1. The test was performed in XD - 966 chamber 6.
2. Tested Date: 2023/4/16

4.2 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.3 6 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100980	2022/4/20	2023/4/19

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/4/16

4.4 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC power supply JIN YIH Technology	6905S	1720444	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2022/6/23	2023/6/22
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100980	2022/4/20	2023/4/19
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	2022/12/27	2023/12/26

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/4/16

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
LISN R&S	ESH3-Z5	100116	2023/2/15	2024/2/14
		100311	2022/9/12	2023/9/11
RF Coaxial Cable WOKEN	5D-FB	Cable-cond1-01	2023/1/7	2024/1/6
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
Test Receiver Rohde&Schwarz	ESCI	100613	2022/12/5	2023/12/4
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2022/8/31	2023/8/30

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2023/4/14

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	UNAT_5+	PAD-CH6-01	N/A	N/A
Antenna Tower Controller Max-Full	MF-7802	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB9168	9168-616	2022/10/26	2023/10/25
Loop Antenna EMCI	EM-6879	269	2022/9/19	2023/9/18
Loop Antenna TESEQ	HLA 6121	45745	2022/7/27	2023/7/26
Pre-amplifier EMCI	EMC001340	980201	2022/9/23	2023/9/22
Preamplifier Agilent	310N	187226	2022/6/14	2023/6/13
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
RF Coaxial Cable ETS-Lindgren	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4	2022/6/14	2023/6/13
	RFC-SMS-100-SMS-24-IN	Cable-CH1-02(RFC-SMS-100-SMS-24)	2022/6/14	2023/6/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Test Receiver Agilent	N9038A	MY52260177	2022/9/19	2023/9/18
Turn Table Max-Full	TT-1510	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802	N/A	N/A	N/A

Notes:

1. The test was performed in XD - 966 chamber 6.
2. Tested Date: 2023/3/9 ~ 2023/4/14

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	UNAT_5+	PAD-CH6-01	N/A	N/A
Antenna Tower Controller Max-Full	MF-7802	N/A	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	8	N/A	N/A
Horn Antenna ETS-Lindgren	3117	00143293	2022/11/13	2023/11/12
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170241	2022/10/20	2023/10/19
Pre-Amplifier EMCI	EMC 184045	980116	2022/10/1	2023/9/30
Preamplifier Agilent	83017A	MY39501373	2022/6/14	2023/6/13
RF Coaxial Cable ETS-Lindgren	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4	2022/6/14	2023/6/13
	RFC-SMS-100-SMS-24-IN	Cable-CH1-02(RFC-SMS-100-SMS-24)	2022/6/14	2023/6/13
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2023/1/7	2024/1/6
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2023/1/7	2024/1/6
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Test Receiver Agilent	N9038A	MY52260177	2022/9/19	2023/9/18
Turn Table Max-Full	TT-1510	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802	N/A	N/A	N/A

Notes:

3. The test was performed in XD - 966 chamber 6.
4. Tested Date: 2023/3/4 ~ 2023/4/15

5 Limits of Test Items

5.1 RF Output Power

Device Category	Limit (Max Average Power)
Indoor access point	EIRP 36 dBm
Subordinate device	EIRP 36 dBm
Client device	EIRP 30 dBm
Note: For all U-NII-4 and U-NII-3 & -4 span channels shall met above EIRP values.	

5.2 Power Spectral Density

Device Category	Limit
Indoor access point	EIRP 20 dBm/MHz
Subordinate device	EIRP 20 dBm/MHz
Client device	EIRP 14 dBm/MHz
Note: For all U-NII-4 and U-NII-3 & -4 span channels shall met above EIRP values.	

5.3 6 dB Bandwidth

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.4 Frequency Stability

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

5.5 AC Power Conducted Emissions

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

Notes:

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

5.6 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.7 Unwanted Emissions above 1 GHz

- (i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.
- (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz.
- (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

Note:

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

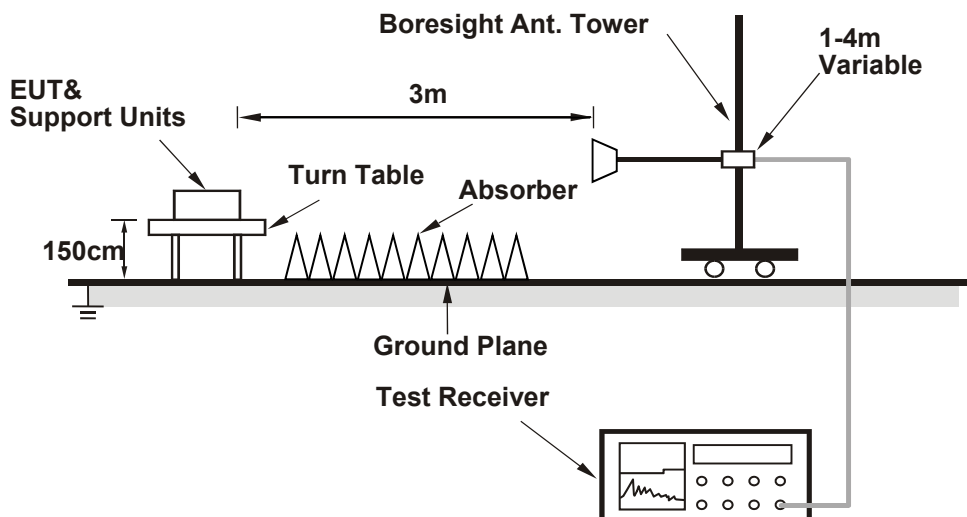
$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup

Radiated Measurement Method



6.1.2 Test Procedure

Radiated Measurement Method

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- Follow ANSI C63.10 section 12.7.3, $EIRP \text{ Value (dBm)} = \text{Field Strength Value (dBuV/m)} + \text{Correction Factor @ 3 m}$.
- $\text{Correction Factor (dB) @ 3 m} = 20\log(D) - 104.77$; where D is the measurement distance @3 m = -95.23 dB

Spectrum analyzer setting as below:

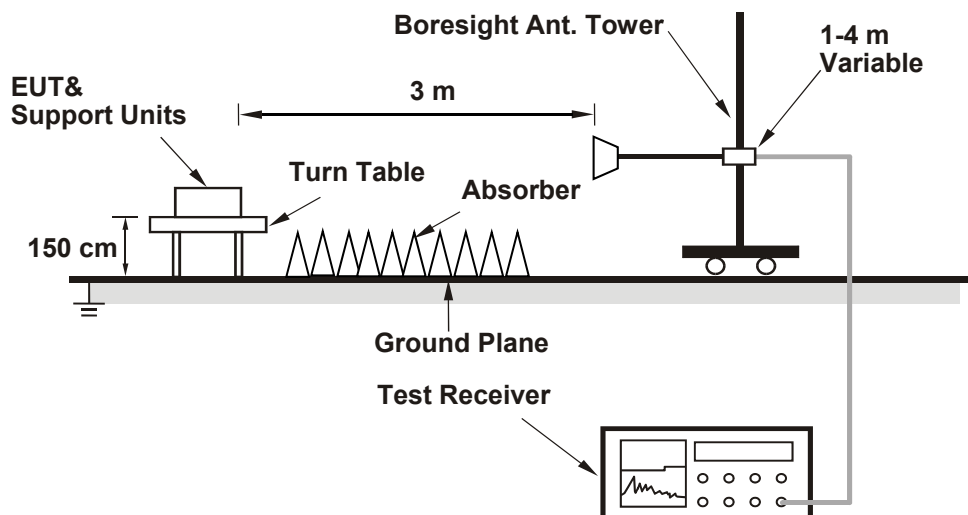
Method SA-1

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

6.2 Power Spectral Density

6.2.1 Test Setup

Radiated Measurement Method



6.2.2 Test Procedure

Radiated Measurement Method

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- Follow ANSI C63.10 section 12.7.3, $EIRP \text{ Value (dBm)} = \text{Field Strength Value (dBuV/m)} + \text{Correction Factor @ 3 m}$.
- $\text{Correction Factor (dB) @ 3 m} = 20\log(D) - 104.77$; where D is the measurement distance @3 m = -95.23 dB

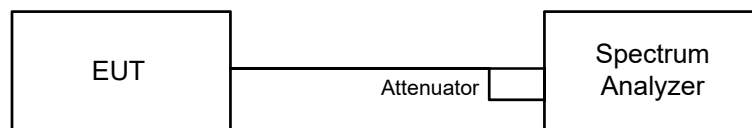
Spectrum analyzer setting as below:

Method SA-1

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

6.3 6 dB Bandwidth

6.3.1 Test Setup

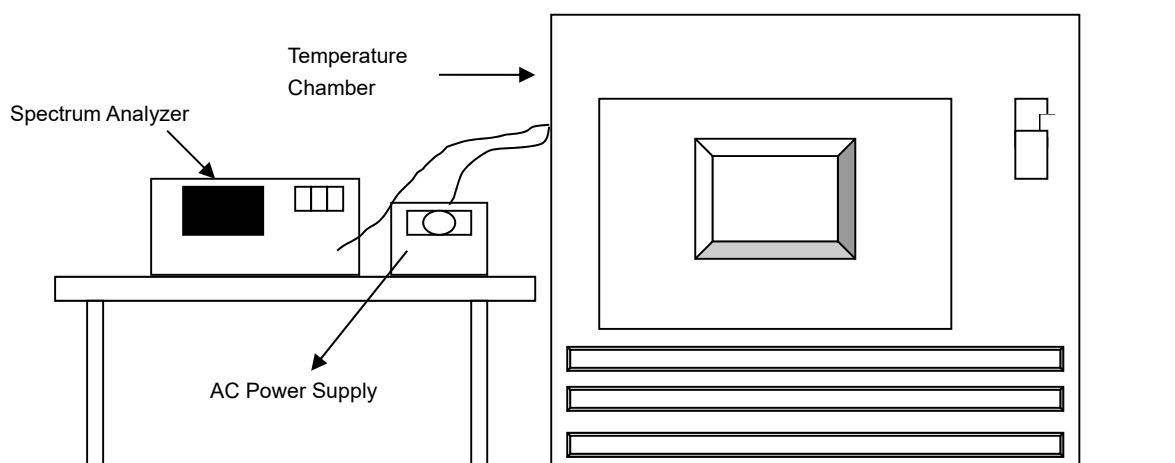


6.3.2 Test Procedure

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

6.4 Frequency Stability

6.4.1 Test Setup

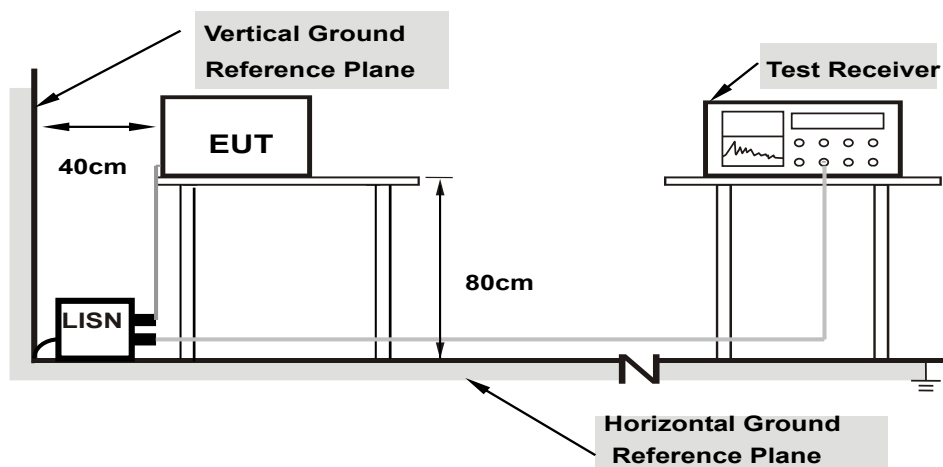


6.4.2 Test Procedure

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

6.5 AC Power Conducted Emissions

6.5.1 Test Setup



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

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

6.5.2 Test Procedure

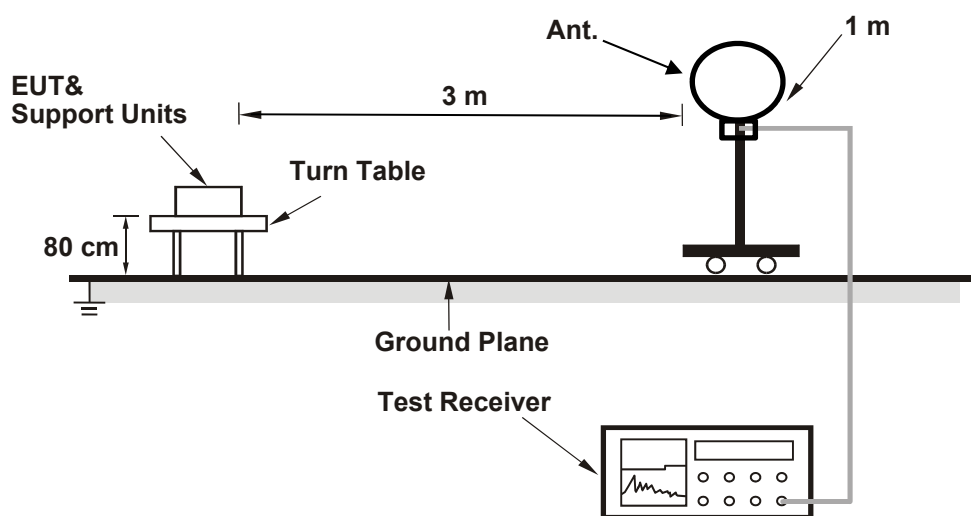
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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

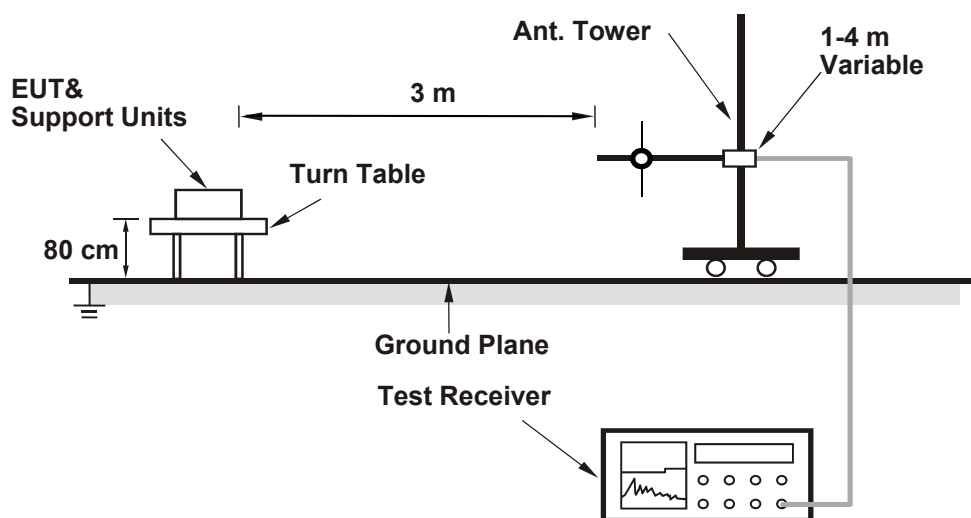
6.6 Unwanted Emissions below 1 GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.6.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

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

For Radiated emission above 30 MHz

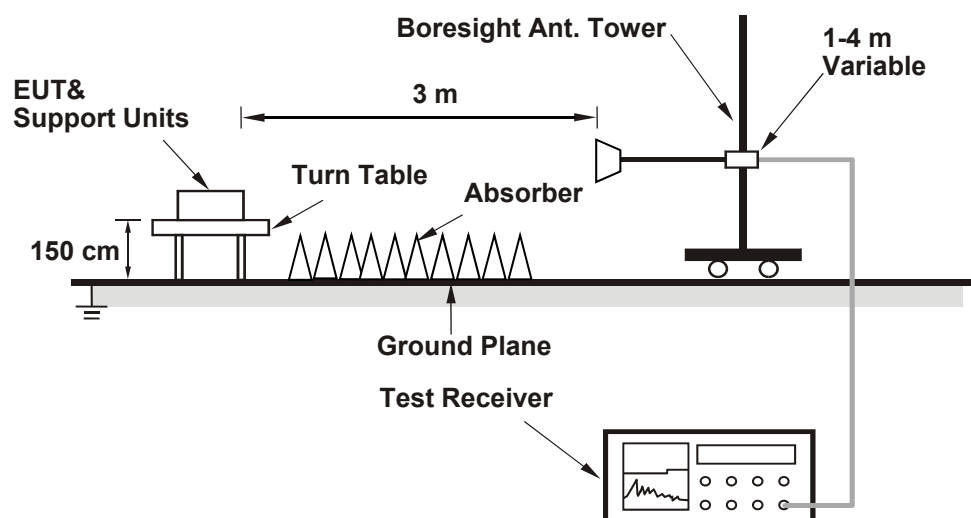
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

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

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



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

6.7.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

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

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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802.11a

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
169	5845	121.70	-95.23	443.609	26.47	36	Pass
173	5865	121.64	-95.23	437.522	26.41	36	Pass
177	5885	121.57	-95.23	430.527	26.34	36	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
169	5845	122.70	-95.23	558.47	27.47	36	Pass
173	5865	122.64	-95.23	550.808	27.41	36	Pass
177	5885	122.60	-95.23	545.758	27.37	36	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
167	5835	126.30	-95.23	1279.381	31.07	36	Pass
175	5875	125.90	-95.23	1166.81	30.67	36	Pass

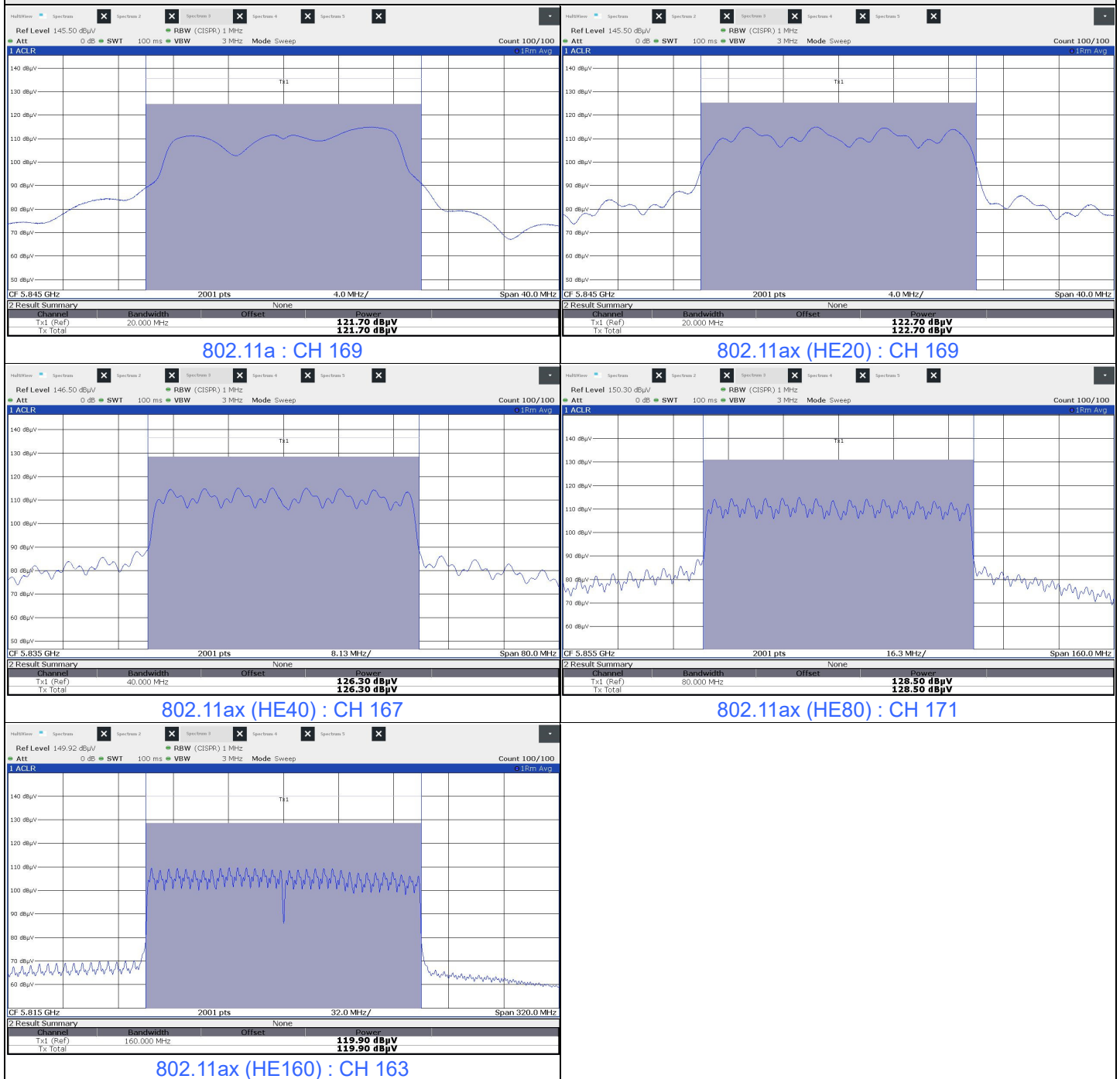
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
171	5855	128.50	-95.23	2123.244	33.27	36	Pass

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
163	5815	119.90	-95.23	293.089	24.67	36	Pass

Spectrum Plot of Maximum Value



802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
169	5845	122.29	-95.23	508.159	27.06	36	Pass
173	5865	122.24	-95.23	502.343	27.01	36	Pass
177	5885	122.38	-95.23	518.8	27.15	36	Pass

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
167	5835	126.08	-95.23	1216.186	30.85	36	Pass
175	5875	125.76	-95.23	1129.796	30.53	36	Pass

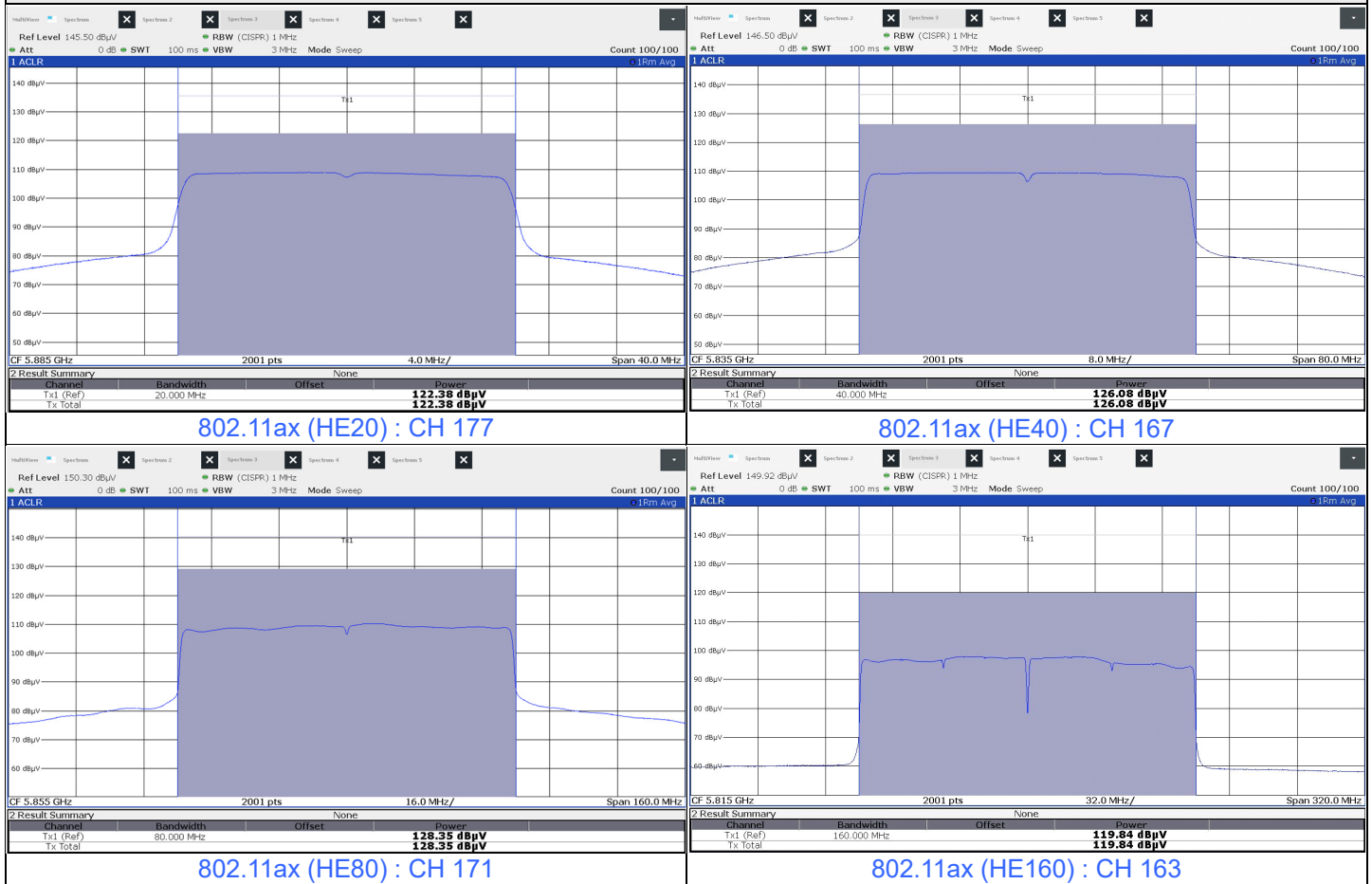
802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
171	5855	128.35	-95.23	2051.162	33.12	36	Pass

802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
163	5815	119.84	-95.23	289.068	24.61	36	Pass

Spectrum Plot of Maximum Value



7.2 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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802.11a

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
169	5845	115.19	-95.23	19.96	20	Pass
173	5865	115.16	-95.23	19.93	20	Pass
177	5885	115.12	-95.23	19.89	20	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
169	5845	115.14	-95.23	19.91	20	Pass
173	5865	115.08	-95.23	19.85	20	Pass
177	5885	114.93	-95.23	19.70	20	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
167	5835	115.19	-95.23	19.96	20	Pass
175	5875	114.86	-95.23	19.63	20	Pass

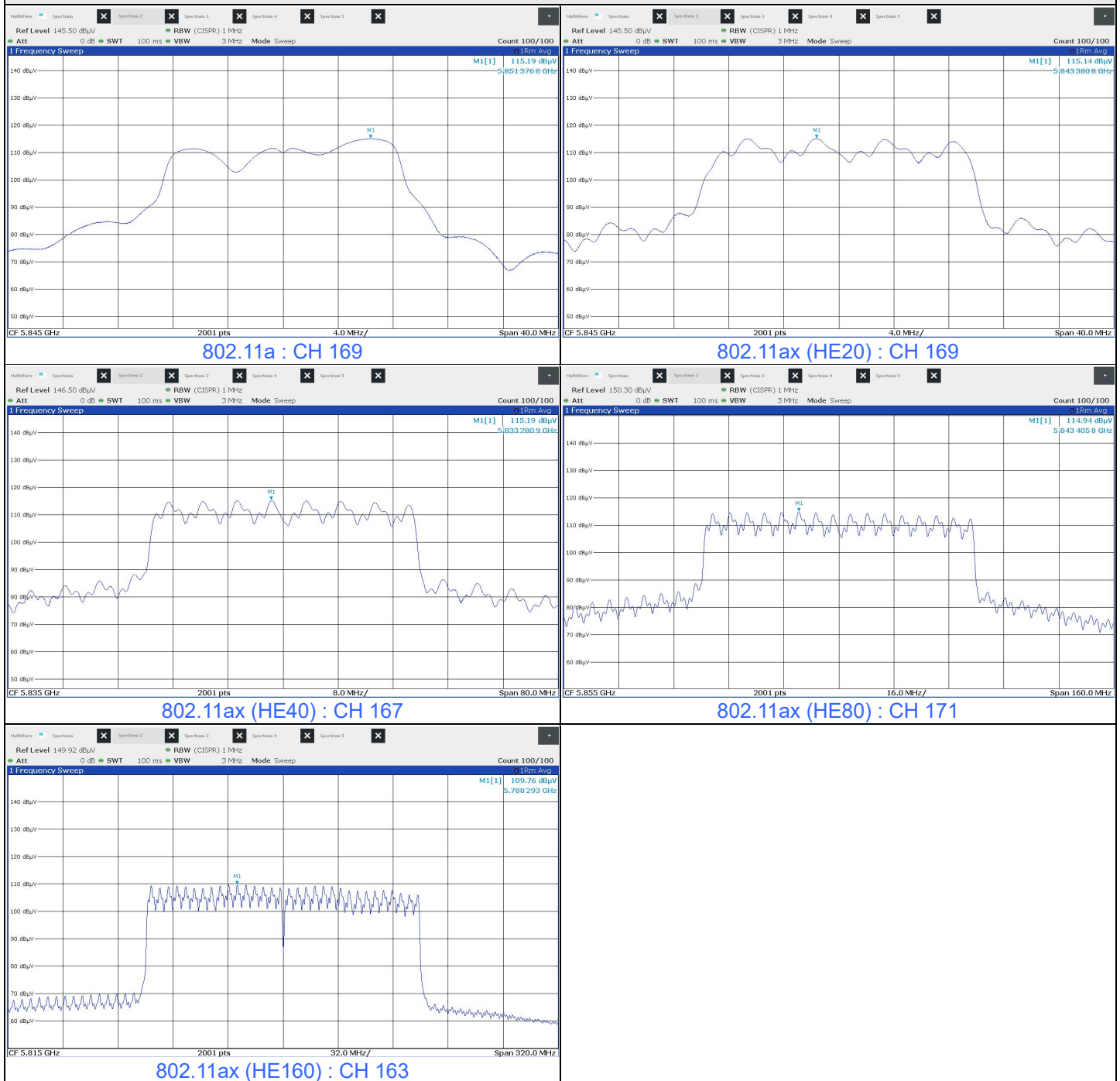
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
171	5855	114.94	-95.23	19.71	20	Pass

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
163	5815	109.76	-95.23	14.53	20	Pass

Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyoung Wang
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802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
169	5845	16.38	16.40	16.41	16.40	0.5	Pass
173	5865	16.39	16.38	16.37	16.40	0.5	Pass
177	5885	16.40	16.40	16.37	16.39	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
169	5845	19.01	18.96	18.99	19.02	0.5	Pass
173	5865	19.00	18.96	19.02	18.98	0.5	Pass
177	5885	18.99	18.97	18.95	18.94	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
167	5835	37.80	37.90	37.86	37.91	0.5	Pass
175	5875	37.79	37.84	37.82	37.75	0.5	Pass

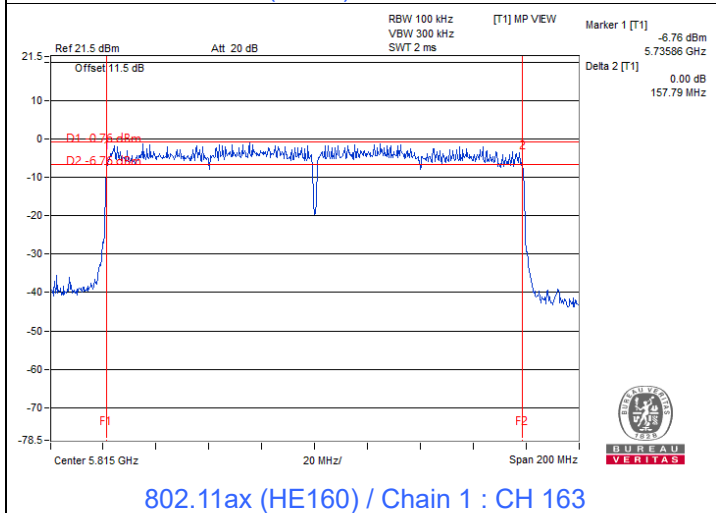
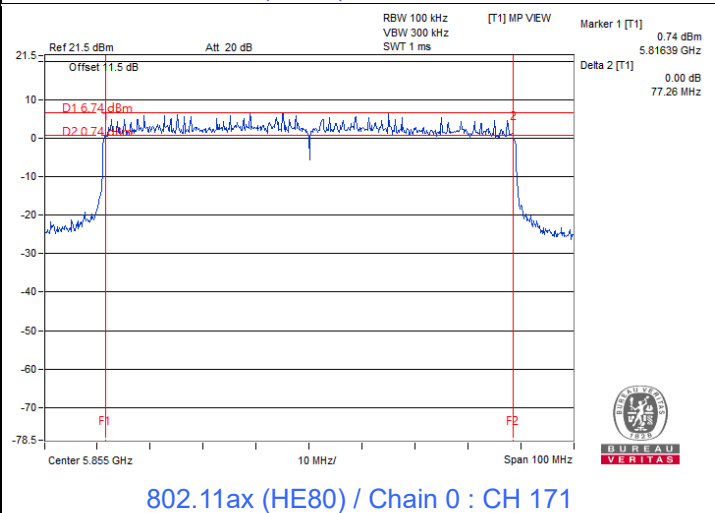
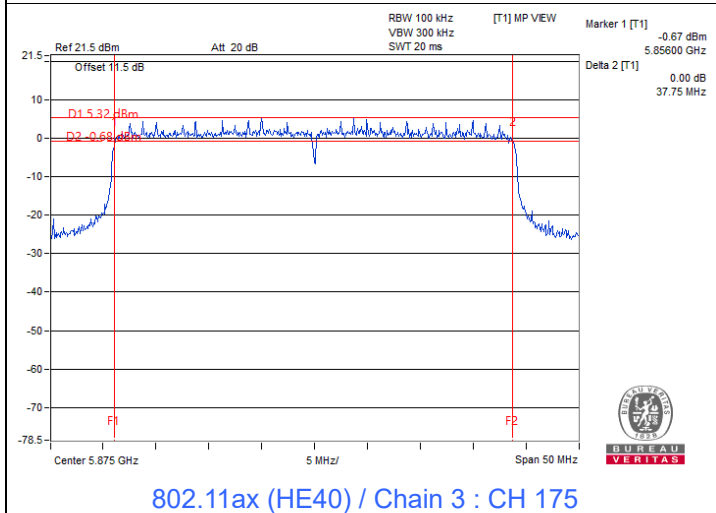
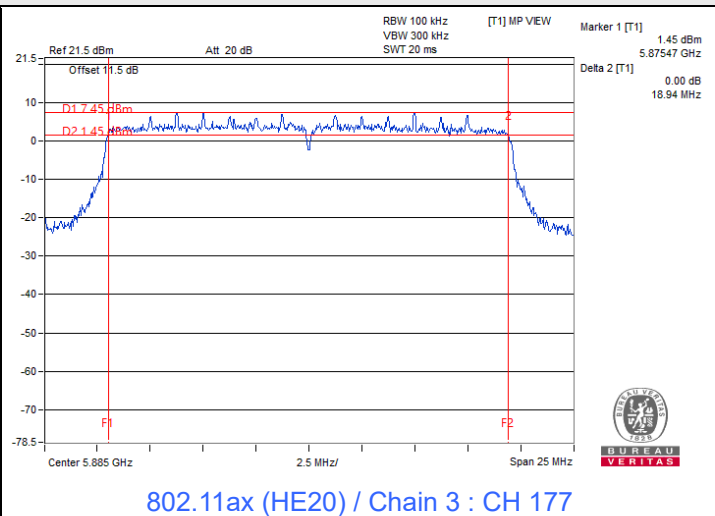
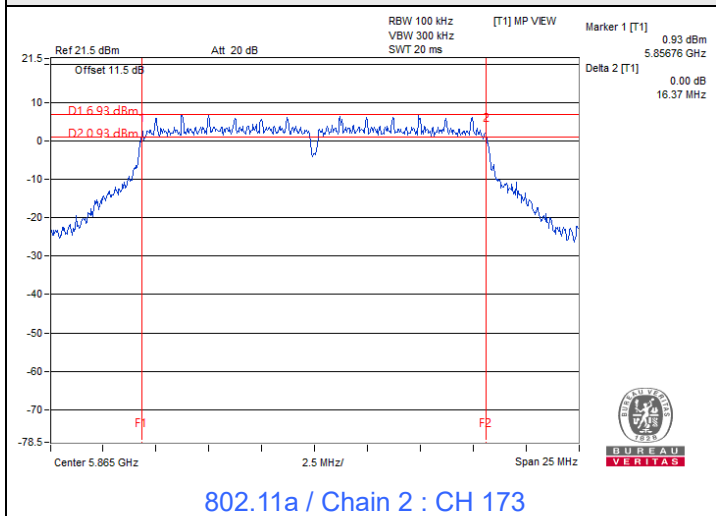
802.11ax (HE80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
171	5855	77.26	77.28	77.27	77.38	0.5	Pass

802.11ax (HE160)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
163	5815	158.00	157.79	157.83	157.90	0.5	Pass

Spectrum Plot of Minimum Value



7.4 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5865 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
40	120	5865.0241	Pass	5865.0247	Pass	5865.0257	Pass	5865.0245	Pass
30	120	5865.0263	Pass	5865.0263	Pass	5865.0262	Pass	5865.0267	Pass
20	120	5865.0122	Pass	5865.013	Pass	5865.0106	Pass	5865.012	Pass
10	120	5865.0131	Pass	5865.0135	Pass	5865.0138	Pass	5865.0129	Pass
0	120	5865.003	Pass	5865.0022	Pass	5865.0004	Pass	5864.9984	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5865 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5865.0016	Pass	5864.999	Pass	5864.9995	Pass	5865.0011	Pass
	120	5865.0122	Pass	5865.013	Pass	5865.0106	Pass	5865.012	Pass
	102	5865.0056	Pass	5865.0071	Pass	5865.01	Pass	5865.01	Pass

7.5 AC Power Conducted Emissions

Test Mode A

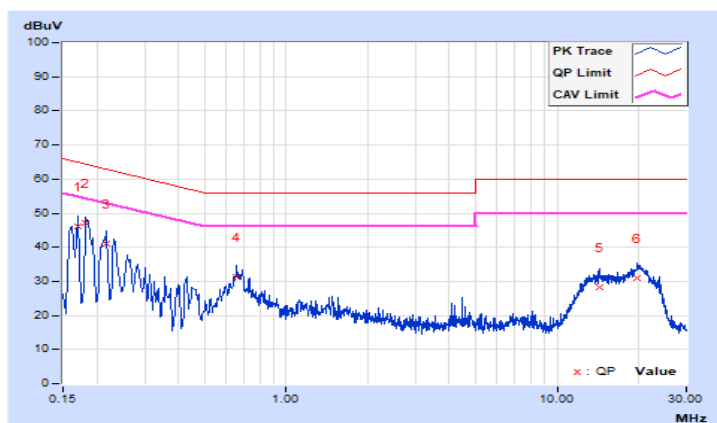
Adapter 1 - NBS36J120300VU

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	0.17000	10.19	35.88	18.66	46.07	28.85	64.96	54.96	-18.89	-26.11
2	0.18200	10.20	36.81	19.60	47.01	29.80	64.39	54.39	-17.38	-24.59
3	0.21800	10.23	30.84	17.23	41.07	27.46	62.89	52.89	-21.82	-25.43
4	0.65800	10.33	20.95	16.04	31.28	26.37	56.00	46.00	-24.72	-19.63
5	14.29000	11.04	17.24	12.11	28.28	23.15	60.00	50.00	-31.72	-26.85
6	19.71000	11.32	19.57	14.82	30.89	26.14	60.00	50.00	-29.11	-23.86

Remarks:

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

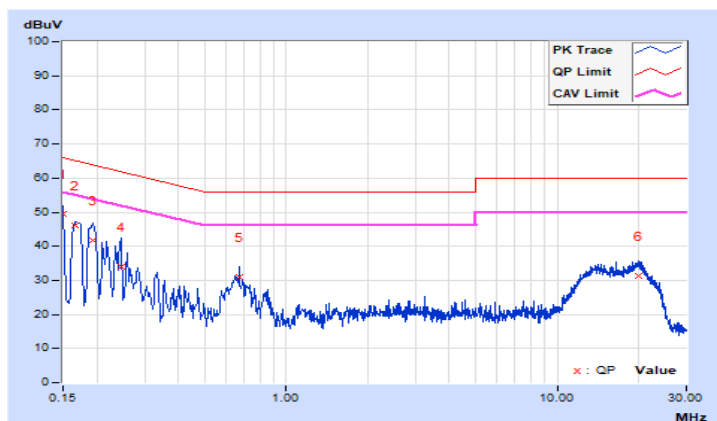


RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	10.21	39.33	23.18	49.54	33.39	66.00	56.00	-16.46	-22.61
2	0.16600	10.22	35.87	18.93	46.09	29.15	65.16	55.16	-19.07	-26.01
3	0.19367	10.24	31.52	15.63	41.76	25.87	63.88	53.88	-22.12	-28.01
4	0.24600	10.27	23.65	13.35	33.92	23.62	61.89	51.89	-27.97	-28.27
5	0.67000	10.36	20.69	13.63	31.05	23.99	56.00	46.00	-24.95	-22.01
6	19.88200	11.05	20.37	15.60	31.42	26.65	60.00	50.00	-28.58	-23.35

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



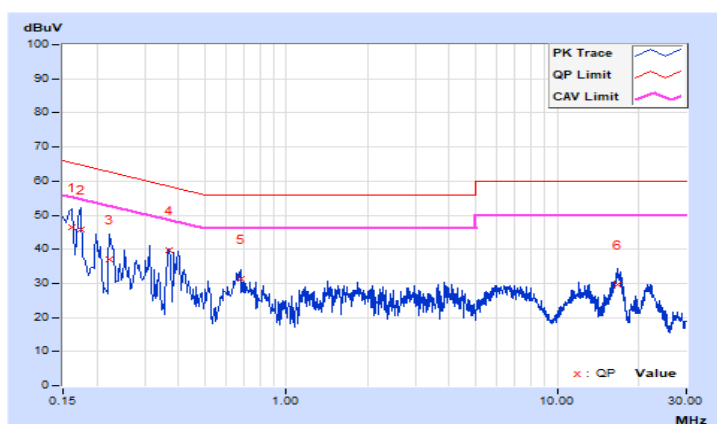
Adapter 2 - ADH-36L WB

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	0.16148	10.19	36.32	23.60	46.51	33.79	65.39	55.39	-18.88	-21.60
2	0.17384	10.20	35.58	26.03	45.78	36.23	64.77	54.77	-18.99	-18.54
3	0.22200	10.23	26.94	13.61	37.17	23.84	62.74	52.74	-25.57	-28.90
4	0.36835	10.29	29.52	27.44	39.81	37.73	58.54	48.54	-18.73	-10.81
5	0.67800	10.34	20.95	15.92	31.29	26.26	56.00	46.00	-24.71	-19.74
6	16.81400	11.17	18.31	13.30	29.48	24.47	60.00	50.00	-30.52	-25.53

Remarks:

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

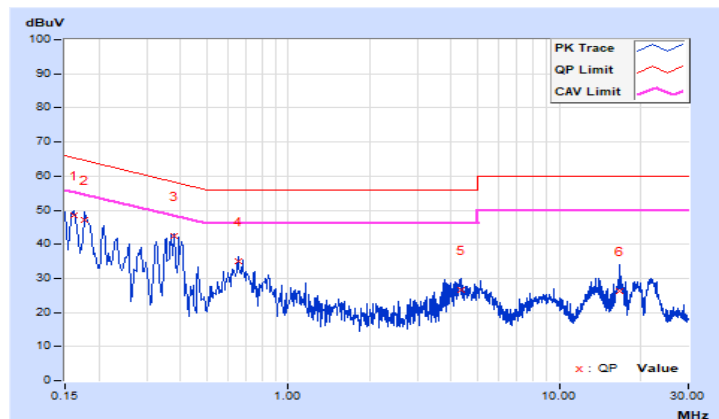


RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	0.16148	10.22	38.18	27.90	48.40	38.12	65.39	55.39	-16.99	-17.27
2	0.17800	10.23	36.76	25.50	46.99	35.73	64.58	54.58	-17.59	-18.85
3	0.37800	10.31	32.02	28.83	42.33	39.14	58.32	48.32	-15.99	-9.18
4	0.65400	10.35	24.70	18.53	35.05	28.88	56.00	46.00	-20.95	-17.12
5	4.36600	10.60	15.98	8.29	26.58	18.89	56.00	46.00	-29.42	-27.11
6	16.78600	10.97	15.21	9.19	26.18	20.16	60.00	50.00	-33.82	-29.84

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



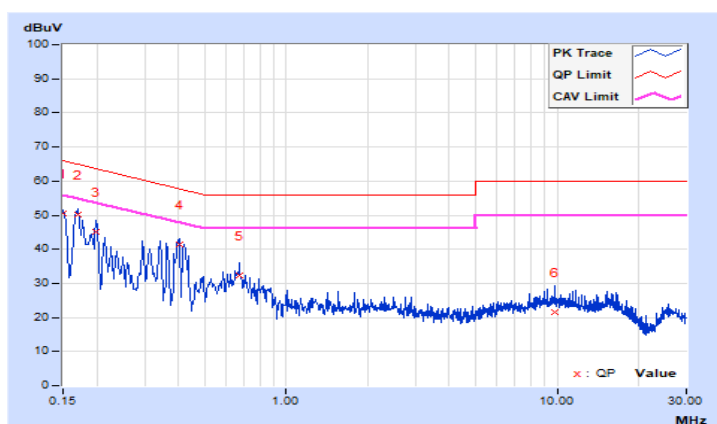
Adapter 3 - PS-2.5-12-3WT3

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	0.15000	10.18	40.48	27.54	50.66	37.72	66.00	56.00	-15.34	-18.28
2	0.17000	10.19	39.93	27.45	50.12	37.64	64.96	54.96	-14.84	-17.32
3	0.19800	10.22	34.76	22.93	44.98	33.15	63.69	53.69	-18.71	-20.54
4	0.40180	10.30	30.99	21.24	41.29	31.54	57.82	47.82	-16.53	-16.28
5	0.66987	10.34	22.08	15.20	32.42	25.54	56.00	46.00	-23.58	-20.46
6	9.77000	10.79	10.84	5.69	21.63	16.48	60.00	50.00	-38.37	-33.52

Remarks:

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

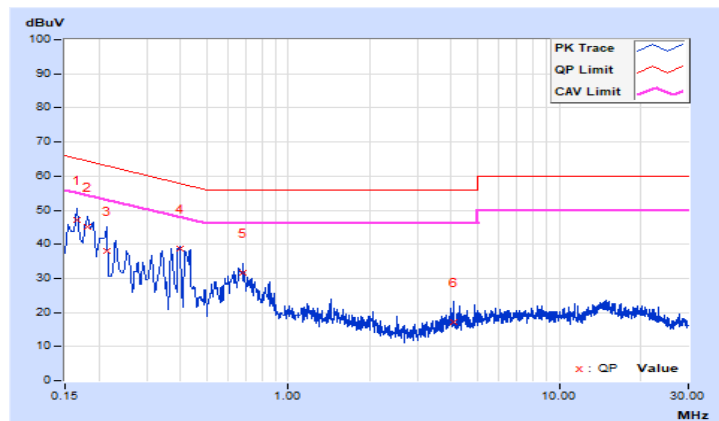


RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	0.16600	10.22	36.92	25.69	47.14	35.91	65.16	55.16	-18.02	-19.25
2	0.18200	10.23	34.96	22.96	45.19	33.19	64.39	54.39	-19.20	-21.20
3	0.21400	10.25	27.64	16.50	37.89	26.75	63.05	53.05	-25.16	-26.30
4	0.39759	10.32	28.48	23.24	38.80	33.56	57.90	47.90	-19.10	-14.34
5	0.67800	10.36	21.20	15.57	31.56	25.93	56.00	46.00	-24.44	-20.07
6	4.05800	10.59	6.72	2.36	17.31	12.95	56.00	46.00	-38.69	-33.05

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



Test Mode B

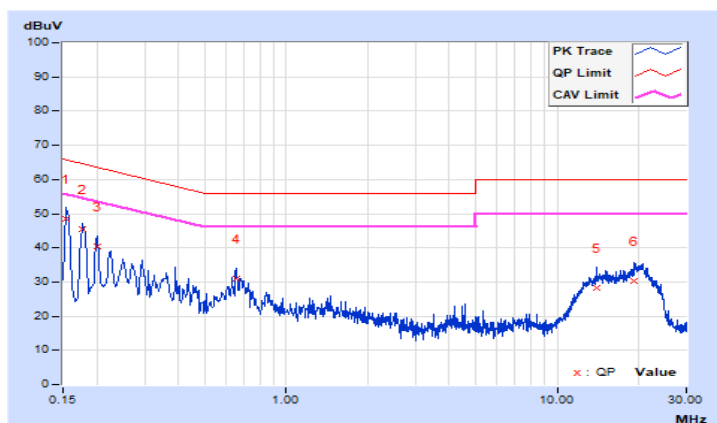
Adapter 1 - NBS36J120300VU

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	0.15400	10.18	38.43	21.01	48.61	31.19	65.78	55.78	-17.17	-24.59
2	0.17800	10.20	35.11	19.82	45.31	30.02	64.58	54.58	-19.27	-24.56
3	0.20200	10.22	30.04	15.37	40.26	25.59	63.53	53.53	-23.27	-27.94
4	0.65800	10.33	20.78	15.85	31.11	26.18	56.00	46.00	-24.89	-19.82
5	13.99000	11.02	17.15	11.89	28.17	22.91	60.00	50.00	-31.83	-27.09
6	19.29400	11.29	18.96	14.26	30.25	25.55	60.00	50.00	-29.75	-24.45

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

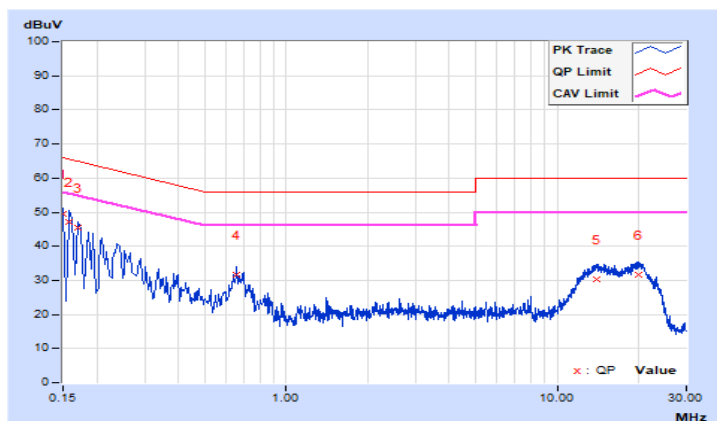


RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	10.21	39.45	23.09	49.66	33.30	66.00	56.00	-16.34	-22.70
2	0.15800	10.21	36.97	19.36	47.18	29.57	65.57	55.57	-18.39	-26.00
3	0.17000	10.22	35.25	18.14	45.47	28.36	64.96	54.96	-19.49	-26.60
4	0.65800	10.35	21.40	16.52	31.75	26.87	56.00	46.00	-24.25	-19.13
5	14.00200	10.89	19.46	14.25	30.35	25.14	60.00	50.00	-29.65	-24.86
6	20.01000	11.05	20.59	15.87	31.64	26.92	60.00	50.00	-28.36	-23.08

Remarks:

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



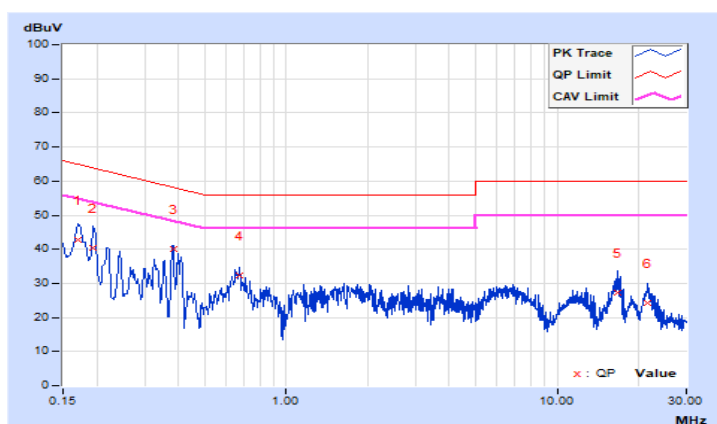
Adapter 2 - ADH-36L WB

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	0.16977	10.19	32.49	21.47	42.68	31.66	64.97	54.97	-22.29	-23.31
2	0.19400	10.21	30.30	21.18	40.51	31.39	63.86	53.86	-23.35	-22.47
3	0.38200	10.29	29.92	26.53	40.21	36.82	58.24	48.24	-18.03	-11.42
4	0.66987	10.34	22.10	15.39	32.44	25.73	56.00	46.00	-23.56	-20.27
5	16.65000	11.16	16.06	10.30	27.22	21.46	60.00	50.00	-32.78	-28.54
6	21.59000	11.35	12.93	7.44	24.28	18.79	60.00	50.00	-35.72	-31.21

Remarks:

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

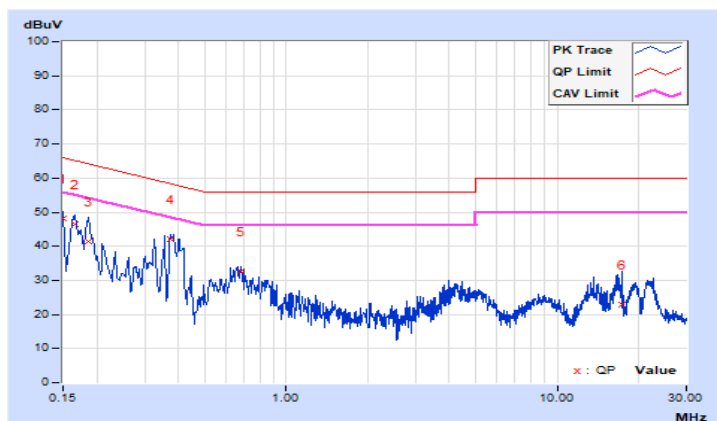


RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	10.21	37.95	27.99	48.16	38.20	66.00	56.00	-17.84	-17.80
2	0.16579	10.22	36.23	26.50	46.45	36.72	65.17	55.17	-18.72	-18.45
3	0.18600	10.24	31.10	22.73	41.34	32.97	64.21	54.21	-22.87	-21.24
4	0.37400	10.31	31.61	24.52	41.92	34.83	58.41	48.41	-16.49	-13.58
5	0.67800	10.36	22.28	16.88	32.64	27.24	56.00	46.00	-23.36	-18.76
6	17.29000	10.98	12.04	4.98	23.02	15.96	60.00	50.00	-36.98	-34.04

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



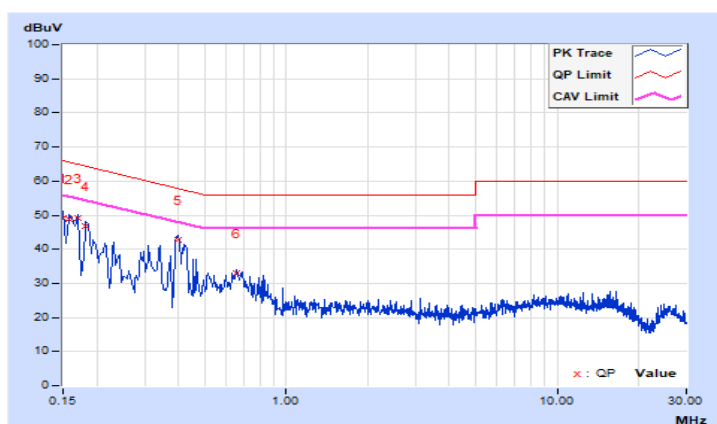
Adapter 3 - PS-2.5-12-3WT3

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	0.15000	10.18	39.11	27.42	49.29	37.60	66.00	56.00	-16.71	-18.40
2	0.15800	10.18	38.74	25.94	48.92	36.12	65.57	55.57	-16.65	-19.45
3	0.17000	10.19	38.89	27.25	49.08	37.44	64.96	54.96	-15.88	-17.52
4	0.18200	10.20	36.56	23.94	46.76	34.14	64.39	54.39	-17.63	-20.25
5	0.39655	10.30	32.32	28.26	42.62	38.56	57.93	47.93	-15.31	-9.37
6	0.65763	10.33	22.73	16.88	33.06	27.21	56.00	46.00	-22.94	-18.79

Remarks:

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

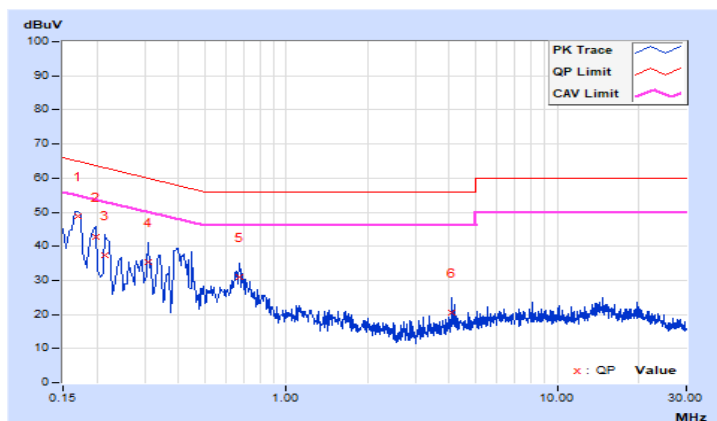


RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	0.16932	10.22	38.62	26.08	48.84	36.30	64.99	54.99	-16.15	-18.69
2	0.19780	10.25	32.40	21.66	42.65	31.91	63.70	53.70	-21.05	-21.79
3	0.21400	10.25	27.28	16.37	37.53	26.62	63.05	53.05	-25.52	-26.43
4	0.31000	10.29	24.94	20.53	35.23	30.82	59.97	49.97	-24.74	-19.15
5	0.66987	10.36	20.71	14.03	31.07	24.39	56.00	46.00	-24.93	-21.61
6	4.06600	10.59	9.86	1.95	20.45	12.54	56.00	46.00	-35.55	-33.46

Remarks:

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



7.6 Unwanted Emissions below 1 GHz

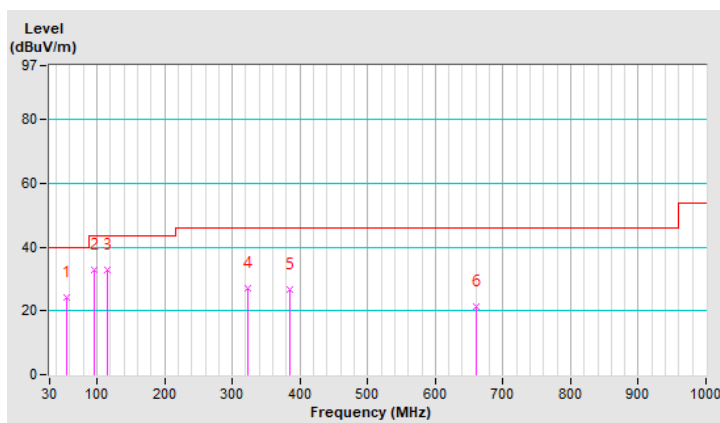
Test Mode A

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	55.22	24.4 QP	40.0	-15.6	1.75 H	137	42.4	-18.0
2	95.15	32.7 QP	43.5	-10.8	1.42 H	186	55.8	-23.1
3	115.26	33.0 QP	43.5	-10.5	1.34 H	300	53.3	-20.3
4	322.52	27.1 QP	46.0	-18.9	1.75 H	141	43.5	-16.4
5	385.04	26.9 QP	46.0	-19.1	1.15 H	299	41.9	-15.0
6	660.60	21.4 QP	46.0	-24.6	1.42 H	157	31.1	-9.7

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 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.

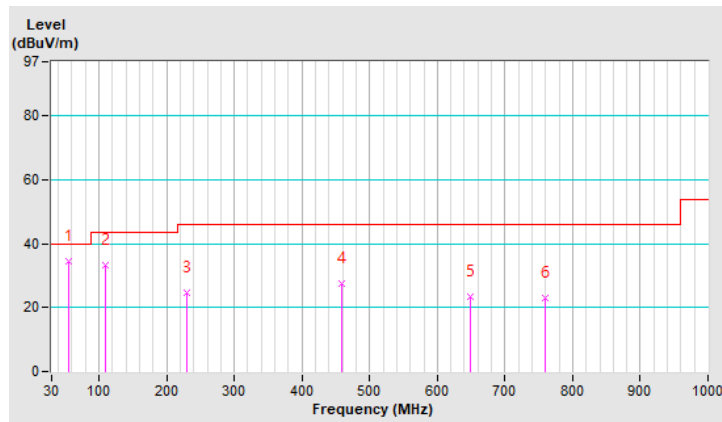


RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	55.59	34.6 QP	40.0	-5.4	1.45 V	192	52.5	-17.9
2	110.20	33.3 QP	43.5	-10.2	1.36 V	337	54.1	-20.8
3	229.54	24.8 QP	46.0	-21.2	1.75 V	210	45.2	-20.4
4	458.91	27.7 QP	46.0	-18.3	1.17 V	48	40.9	-13.2
5	648.97	23.3 QP	46.0	-22.7	1.26 V	266	33.2	-9.9
6	759.94	23.2 QP	46.0	-22.8	1.24 V	180	31.2	-8.0

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.



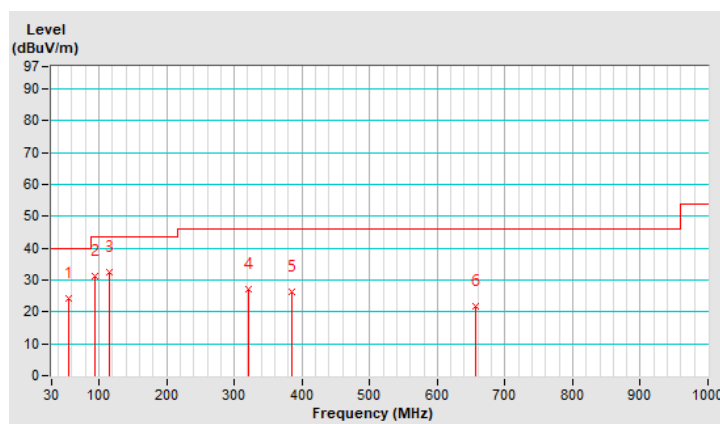
Test Mode B

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	55.18	24.1 QP	40.0	-15.9	1.57 H	253	42.1	-18.0
2	94.89	31.4 QP	43.5	-12.1	1.53 H	196	54.5	-23.1
3	115.19	32.4 QP	43.5	-11.1	1.94 H	214	52.7	-20.3
4	320.82	27.3 QP	46.0	-18.7	1.12 H	314	43.8	-16.5
5	384.66	26.4 QP	46.0	-19.6	1.78 H	204	41.4	-15.0
6	657.43	21.7 QP	46.0	-24.3	1.99 H	269	31.5	-9.8

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 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.

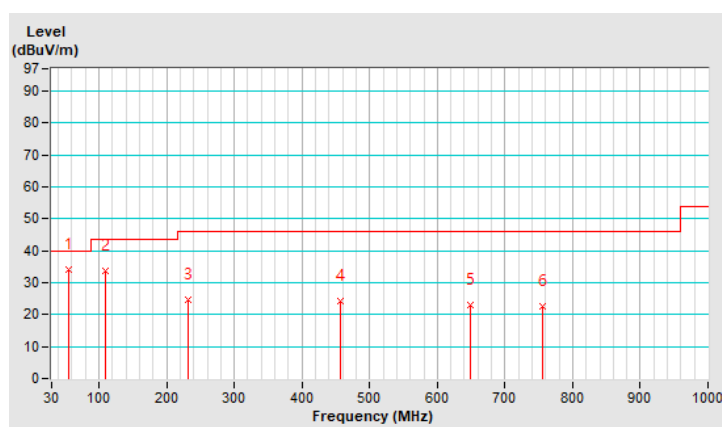


RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	55.71	34.2 QP	40.0	-5.8	1.53 V	125	52.1	-17.9
2	109.78	33.6 QP	43.5	-9.9	1.12 V	192	54.4	-20.8
3	231.47	24.5 QP	46.0	-21.5	1.83 V	336	44.6	-20.1
4	457.60	24.1 QP	46.0	-21.9	1.67 V	162	37.3	-13.2
5	648.34	23.1 QP	46.0	-22.9	2.81 V	121	32.9	-9.8
6	756.38	22.8 QP	46.0	-23.2	1.36 V	201	30.8	-8.0

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.



7.7 Unwanted Emissions above 1 GHz

Test Mode A (CDD Mode)

RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5641.20	58.8 PK	68.2	-9.4	1.00 H	246	46.1	12.7
2	*5845.00	116.3 PK			1.00 H	246	72.3	44.0
3	*5845.00	108.4 AV			1.00 H	246	64.4	44.0
4	#5930.44	58.7 PK	108.2	-49.5	1.00 H	246	45.5	13.2
5	#5930.44	47.3 AV	88.2	-40.9	1.00 H	246	34.1	13.2
6	11690.00	58.0 PK	74.0	-16.0	1.85 H	334	39.1	18.9
7	11690.00	48.1 AV	54.0	-5.9	1.85 H	334	29.2	18.9

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	#5651.30	63.1 PK	69.2	-6.1	1.54 V	134	50.4	12.7
2	*5845.00	121.1 PK			1.54 V	134	77.1	44.0
3	*5845.00	113.2 AV			1.54 V	134	69.2	44.0
4	#5925.20	64.5 PK	108.2	-43.7	1.54 V	134	51.3	13.2
5	#5925.20	52.8 AV	88.2	-35.4	1.54 V	134	39.6	13.2
6	11690.00	58.1 PK	74.0	-15.9	1.12 V	141	39.2	18.9
7	11690.00	48.2 AV	54.0	-5.8	1.12 V	141	29.3	18.9

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11a	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5620.32	58.5 PK	68.2	-9.7	1.00 H	246	45.8	12.7
2	*5865.00	115.9 PK			1.00 H	246	71.8	44.1
3	*5865.00	107.7 AV			1.00 H	246	63.6	44.1
4	#5940.14	58.6 PK	108.2	-49.6	1.00 H	246	45.4	13.2
5	#5940.14	47.6 AV	88.2	-40.6	1.00 H	246	34.4	13.2
6	11730.00	58.0 PK	74.0	-16.0	1.35 H	105	39.0	19.0
7	11730.00	48.1 AV	54.0	-5.9	1.35 H	105	29.1	19.0
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	#5614.64	58.5 PK	68.2	-9.7	1.54 V	134	45.8	12.7
2	*5865.00	122.2 PK			1.54 V	134	78.1	44.1
3	*5865.00	114.6 AV			1.54 V	134	70.5	44.1
4	#5930.80	64.8 PK	108.2	-43.4	1.54 V	134	51.6	13.2
5	#5930.80	53.0 AV	88.2	-35.2	1.54 V	134	39.8	13.2
6	11730.00	58.3 PK	74.0	-15.7	1.14 V	157	39.3	19.0
7	11730.00	48.4 AV	54.0	-5.6	1.14 V	157	29.4	19.0

Remarks:

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

RF Mode	802.11a	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5615.62	56.2 PK	68.2	-12.0	1.00 H	242	43.5	12.7
2	*5885.00	114.4 PK			1.00 H	242	70.3	44.1
3	*5885.00	105.7 AV			1.00 H	242	61.6	44.1
4	#5925.63	63.5 PK	108.2	-44.7	1.00 H	242	50.3	13.2
5	#5925.63	52.8 AV	88.2	-35.4	1.00 H	242	39.6	13.2
6	11770.00	58.3 PK	74.0	-15.7	1.96 H	359	39.2	19.1
7	11770.00	48.2 AV	54.0	-5.8	1.96 H	359	29.1	19.1
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	#5634.41	59.1 PK	68.2	-9.1	1.84 V	132	46.4	12.7
2	*5885.00	122.0 PK			1.84 V	132	77.9	44.1
3	*5885.00	113.3 AV			1.84 V	132	69.2	44.1
4	#5925.00	74.4 PK	108.2	-33.8	1.84 V	132	61.2	13.2
5	#5925.00	62.0 AV	88.2	-26.2	1.84 V	132	48.8	13.2
6	11770.00	58.4 PK	74.0	-15.6	1.05 V	200	39.3	19.1
7	11770.00	48.2 AV	54.0	-5.8	1.05 V	200	29.1	19.1

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5639.86	56.7 PK	68.2	-11.5	1.00 H	246	44.0	12.7
2	*5845.00	117.2 PK			1.00 H	246	73.2	44.0
3	*5845.00	107.6 AV			1.00 H	246	63.6	44.0
4	#5981.26	56.1 PK	108.2	-52.1	1.00 H	246	42.8	13.3
5	#5981.26	47.4 AV	88.2	-40.8	1.00 H	246	34.1	13.3
6	11690.00	58.3 PK	74.0	-15.7	1.45 H	189	39.4	18.9
7	11690.00	48.2 AV	54.0	-5.8	1.45 H	189	29.3	18.9
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	#5648.42	60.3 PK	68.2	-7.9	1.54 V	134	47.5	12.8
2	*5845.00	122.1 PK			1.54 V	134	78.1	44.0
3	*5845.00	112.5 AV			1.54 V	134	68.5	44.0
4	#5925.00	61.1 PK	108.2	-47.1	1.54 V	134	47.9	13.2
5	#5925.00	50.6 AV	88.2	-37.6	1.54 V	134	37.4	13.2
6	11690.00	58.3 PK	74.0	-15.7	1.78 V	298	39.4	18.9
7	11690.00	48.4 AV	54.0	-5.6	1.78 V	298	29.5	18.9

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20)	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5632.26	56.6 PK	68.2	-11.6	1.00 H	246	43.9	12.7
2	*5865.00	116.7 PK			1.00 H	246	72.6	44.1
3	*5865.00	106.6 AV			1.00 H	246	62.5	44.1
4	#5926.10	59.5 PK	108.2	-48.7	1.00 H	246	46.3	13.2
5	#5926.10	48.7 AV	88.2	-39.5	1.00 H	246	35.5	13.2
6	11730.00	58.2 PK	74.0	-15.8	1.75 H	274	39.2	19.0
7	11730.00	48.5 AV	54.0	-5.5	1.75 H	274	29.5	19.0
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	#5649.85	58.9 PK	68.2	-9.3	1.54 V	134	46.1	12.8
2	*5865.00	123.5 PK			1.54 V	134	79.4	44.1
3	*5865.00	113.5 AV			1.54 V	134	69.4	44.1
4	#5929.43	64.4 PK	108.2	-43.8	1.54 V	134	51.2	13.2
5	#5929.43	54.0 AV	88.2	-34.2	1.54 V	134	40.8	13.2
6	11730.00	58.3 PK	74.0	-15.7	1.56 V	190	39.3	19.0
7	11730.00	48.2 AV	54.0	-5.8	1.56 V	190	29.2	19.0

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5639.60	55.8 PK	68.2	-12.4	1.00 H	242	43.0	12.8
2	*5885.00	115.4 PK			1.00 H	242	71.2	44.2
3	*5885.00	106.6 AV			1.00 H	242	62.4	44.2
4	#5926.00	71.5 PK	108.2	-36.7	1.00 H	242	58.1	13.4
5	#5926.00	61.9 AV	88.2	-26.3	1.00 H	242	48.5	13.4
6	11770.00	58.1 PK	74.0	-15.9	1.42 H	109	39.0	19.1
7	11770.00	48.1 AV	54.0	-5.9	1.42 H	109	29.0	19.1
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	#5645.50	57.3 PK	68.2	-10.9	1.84 V	132	44.5	12.8
2	*5885.00	121.6 PK			1.84 V	132	77.4	44.2
3	*5885.00	112.5 AV			1.84 V	132	68.3	44.2
4	#5895.00	114.5 PK	130.2	-15.7	1.84 V	132	101.1	13.4
5	#5895.00	102.2 AV	110.2	-8.0	1.84 V	132	88.8	13.4
6	11770.00	58.2 PK	74.0	-15.8	1.63 V	306	39.1	19.1
7	11770.00	48.3 AV	54.0	-5.7	1.63 V	306	29.2	19.1

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5640.82	58.2 PK	68.2	-10.0	1.00 H	246	45.5	12.7
2	*5835.00	115.2 PK			1.00 H	246	71.2	44.0
3	*5835.00	104.4 AV			1.00 H	246	60.4	44.0
4	#5926.10	63.0 PK	108.2	-45.2	1.00 H	246	49.8	13.2
5	#5926.10	53.3 AV	88.2	-34.9	1.00 H	246	40.1	13.2
6	11670.00	58.3 PK	74.0	-15.7	1.75 H	337	39.5	18.8
7	11670.00	48.4 AV	54.0	-5.6	1.75 H	337	29.6	18.8
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	#5629.88	60.5 PK	68.2	-7.7	1.54 V	134	47.8	12.7
2	*5835.00	121.2 PK			1.54 V	134	77.2	44.0
3	*5835.00	110.6 AV			1.54 V	134	66.6	44.0
4	#5928.95	71.9 PK	108.2	-36.3	1.54 V	134	58.7	13.2
5	#5928.95	60.3 AV	88.2	-27.9	1.54 V	134	47.1	13.2
6	11670.00	58.3 PK	74.0	-15.7	1.95 V	206	39.5	18.8
7	11670.00	48.0 AV	54.0	-6.0	1.95 V	206	29.2	18.8

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5634.44	55.5 PK	68.2	-12.7	1.00 H	242	42.7	12.8
2	*5875.00	113.6 PK			1.00 H	242	69.5	44.1
3	*5875.00	104.5 AV			1.00 H	242	60.4	44.1
4	#5925.14	79.8 PK	108.2	-28.4	1.00 H	242	66.4	13.4
5	#5925.14	69.7 AV	88.2	-18.5	1.00 H	242	56.3	13.4
6	11750.00	58.3 PK	74.0	-15.7	1.62 H	318	39.1	19.2
7	11750.00	48.3 AV	54.0	-5.7	1.62 H	318	29.1	19.2
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	#5640.00	56.6 PK	68.2	-11.6	1.84 V	132	43.8	12.8
2	*5875.00	120.2 PK			1.84 V	132	76.1	44.1
3	*5875.00	111.4 AV			1.84 V	132	67.3	44.1
4	#5925.04	89.6 PK	108.2	-18.6	1.84 V	132	76.2	13.4
5	#5925.04	79.0 AV	88.2	-9.2	1.84 V	132	65.6	13.4
6	11750.00	58.3 PK	74.0	-15.7	1.75 V	200	39.1	19.2
7	11750.00	48.5 AV	54.0	-5.5	1.75 V	200	29.3	19.2

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5645.57	59.5 PK	68.2	-8.7	1.00 H	242	46.7	12.8
2	*5855.00	111.8 PK			1.00 H	242	67.7	44.1
3	*5855.00	101.9 AV			1.00 H	242	57.8	44.1
4	#5925.63	76.2 PK	108.2	-32.0	1.00 H	242	63.0	13.2
5	#5925.63	67.3 AV	88.2	-20.9	1.00 H	242	54.1	13.2
6	11710.00	58.2 PK	74.0	-15.8	1.42 H	214	39.1	19.1
7	11710.00	48.5 AV	54.0	-5.5	1.42 H	214	29.4	19.1
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	#5649.37	67.1 PK	68.2	-1.1	1.84 V	132	54.3	12.8
2	*5855.00	118.5 PK			1.84 V	132	74.4	44.1
3	*5855.00	108.0 AV			1.84 V	132	63.9	44.1
4	#5928.48	82.1 PK	108.2	-26.1	1.84 V	132	68.9	13.2
5	#5928.48	73.9 AV	88.2	-14.3	1.84 V	132	60.7	13.2
6	11710.00	58.6 PK	74.0	-15.4	1.62 V	290	39.5	19.1
7	11710.00	48.8 AV	54.0	-5.2	1.62 V	290	29.7	19.1

Remarks:

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

RF Mode	802.11ax (HE160)	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5636.06	57.0 PK	68.2	-11.2	1.00 H	242	44.3	12.7
2	*5815.00	102.0 PK			1.00 H	242	58.1	43.9
3	*5815.00	92.9 AV			1.00 H	242	49.0	43.9
4	#5934.18	56.3 PK	108.2	-51.9	1.00 H	242	43.1	13.2
5	#5934.18	46.9 AV	88.2	-41.3	1.00 H	242	33.7	13.2
6	11630.00	57.9 PK	74.0	-16.1	1.06 H	116	39.1	18.8
7	11630.00	48.1 AV	54.0	-5.9	1.06 H	116	29.3	18.8
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	#5624.65	67.2 PK	68.2	-1.0	1.84 V	132	54.5	12.7
2	*5815.00	108.3 PK			1.84 V	132	64.4	43.9
3	*5815.00	97.8 AV			1.84 V	132	53.9	43.9
4	#5939.41	65.9 PK	108.2	-42.3	1.84 V	132	52.7	13.2
5	#5939.41	53.6 AV	88.2	-34.6	1.84 V	132	40.4	13.2
6	11630.00	58.2 PK	74.0	-15.8	1.05 V	201	39.4	18.8
7	11630.00	48.4 AV	54.0	-5.6	1.05 V	201	29.6	18.8

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

Test Mode A (Beamforming Mode)

RF Mode	802.11ax (HE20)	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5647.00	57.1 PK	68.2	-11.1	2.03 H	112	44.3	12.8
2	*5845.00	113.1 PK			2.03 H	112	69.1	44.0
3	*5845.00	103.0 AV			2.03 H	112	59.0	44.0
4	#5933.71	56.3 PK	108.2	-51.9	2.03 H	112	43.1	13.2
5	#5933.71	48.7 AV	88.2	-39.5	2.03 H	112	35.5	13.2
6	11690.00	57.6 PK	74.0	-16.4	1.63 H	129	38.7	18.9
7	11690.00	47.9 AV	54.0	-6.1	1.63 H	129	29.0	18.9
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	#5646.52	59.6 PK	68.2	-8.6	1.77 V	10	46.8	12.8
2	*5845.00	119.0 PK			1.77 V	10	75.0	44.0
3	*5845.00	109.0 AV			1.77 V	10	65.0	44.0
4	#5929.90	57.6 PK	88.2	-30.6	1.77 V	10	44.4	13.2
5	#5929.90	48.8 AV	88.2	-39.4	1.77 V	10	35.6	13.2
6	11690.00	57.4 PK	74.0	-16.6	1.47 V	263	38.5	18.9
7	11690.00	47.6 AV	54.0	-6.4	1.47 V	263	28.7	18.9

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20)	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5635.50	58.1 PK	68.2	-10.1	2.00 H	334	45.4	12.7
2	*5865.00	115.4 PK			2.00 H	334	71.3	44.1
3	*5865.00	105.4 AV			2.00 H	334	61.3	44.1
4	#5944.80	58.0 PK	108.2	-50.2	2.00 H	334	44.8	13.2
5	#5944.80	48.5 AV	88.2	-39.7	2.00 H	334	35.3	13.2
6	11730.00	58.1 PK	74.0	-15.9	1.54 H	109	39.1	19.0
7	11730.00	48.2 AV	54.0	-5.8	1.54 H	109	29.2	19.0
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	#5635.11	57.2 PK	68.2	-11.0	1.77 V	50	44.5	12.7
2	*5865.00	120.4 PK			1.77 V	50	76.3	44.1
3	*5865.00	110.4 AV			1.77 V	50	66.3	44.1
4	#5950.35	57.0 PK	108.2	-51.2	1.77 V	50	43.8	13.2
5	#5950.35	47.7 AV	88.2	-40.5	1.77 V	50	34.5	13.2
6	11730.00	58.1 PK	74.0	-15.9	2.14 V	114	39.1	19.0
7	11730.00	48.4 AV	54.0	-5.6	2.14 V	114	29.4	19.0

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5608.96	52.9 PK	68.2	-15.3	2.12 H	106	40.2	12.7
2	*5885.00	113.5 PK			2.12 H	106	69.4	44.1
3	*5885.00	103.1 AV			2.12 H	106	59.0	44.1
4	#5992.67	58.1 PK	108.2	-50.1	2.12 H	106	44.8	13.3
5	#5992.67	48.1 AV	88.2	-40.1	2.12 H	106	34.8	13.3
6	11770.00	57.4 PK	74.0	-16.6	1.69 H	151	38.3	19.1
7	11770.00	47.7 AV	54.0	-6.3	1.69 H	151	28.6	19.1
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	#5634.16	61.0 PK	68.2	-7.2	1.77 V	122	48.3	12.7
2	*5885.00	119.8 PK			1.77 V	122	75.7	44.1
3	*5885.00	110.0 AV			1.77 V	122	65.9	44.1
4	#5925.63	61.3 PK	108.2	-46.9	1.77 V	122	48.1	13.2
5	#5925.63	50.0 AV	88.2	-38.2	1.77 V	122	36.8	13.2
6	11770.00	57.3 PK	74.0	-16.7	1.49 V	208	38.2	19.1
7	11770.00	47.7 AV	54.0	-6.3	1.49 V	208	28.6	19.1

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5569.02	57.2 PK	68.2	-11.0	2.03 H	109	44.5	12.7
2	*5835.00	111.9 PK			2.03 H	109	67.9	44.0
3	*5835.00	101.7 AV			2.03 H	109	57.7	44.0
4	#5958.91	56.6 PK	108.2	-51.6	2.03 H	109	43.4	13.2
5	#5958.91	47.3 AV	88.2	-40.9	2.03 H	109	34.1	13.2
6	11670.00	57.2 PK	74.0	-16.8	1.29 H	270	38.4	18.8
7	11670.00	47.5 AV	54.0	-6.5	1.29 H	270	28.7	18.8
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	#5636.54	55.8 PK	68.2	-12.4	1.77 V	10	43.1	12.7
2	*5835.00	117.2 PK			1.77 V	10	73.2	44.0
3	*5835.00	107.2 AV			1.77 V	10	63.2	44.0
4	#5925.15	55.6 PK	108.2	-52.6	1.77 V	10	42.4	13.2
5	#5925.15	47.4 AV	88.2	-40.8	1.77 V	10	34.2	13.2
6	11670.00	57.2 PK	74.0	-16.8	1.28 V	167	38.4	18.8
7	11670.00	47.4 AV	54.0	-6.6	1.28 V	167	28.6	18.8

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5627.50	58.4 PK	68.2	-9.8	1.96 H	114	45.7	12.7
2	*5875.00	112.5 PK			1.96 H	114	68.4	44.1
3	*5875.00	102.3 AV			1.96 H	114	58.2	44.1
4	#5925.00	65.2 PK	108.2	-43.0	1.96 H	114	52.0	13.2
5	#5925.00	55.1 AV	88.2	-33.1	1.96 H	114	41.9	13.2
6	11750.00	57.4 PK	74.0	-16.6	1.59 H	104	38.4	19.0
7	11750.00	47.6 AV	54.0	-6.4	1.59 H	104	28.6	19.0
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	#5639.39	60.5 PK	68.2	-7.7	1.77 V	118	47.8	12.7
2	*5875.00	117.9 PK			1.77 V	118	73.8	44.1
3	*5875.00	107.6 AV			1.77 V	118	63.5	44.1
4	#5925.00	69.6 PK	108.2	-38.6	1.77 V	118	56.4	13.2
5	#5925.00	56.3 AV	88.2	-31.9	1.77 V	118	43.1	13.2
6	11750.00	57.9 PK	74.0	-16.1	1.72 V	36	38.9	19.0
7	11750.00	48.1 AV	54.0	-5.9	1.72 V	36	29.1	19.0

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5642.72	58.9 PK	68.2	-9.3	2.07 H	114	46.2	12.7
2	*5855.00	110.6 PK			2.07 H	114	66.5	44.1
3	*5855.00	100.5 AV			2.07 H	114	56.4	44.1
4	#5925.00	71.1 PK	108.2	-37.1	2.07 H	114	57.9	13.2
5	#5925.00	64.1 PK	108.2	-44.1	2.07 H	114	50.9	13.2
6	11710.00	57.8 PK	74.0	-16.2	1.89 H	265	38.7	19.1
7	11710.00	48.2 AV	54.0	-5.8	1.89 H	265	29.1	19.1
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	#5630.36	60.6 PK	68.2	-7.6	1.77 V	117	47.9	12.7
2	*5855.00	115.8 PK			1.77 V	117	71.7	44.1
3	*5855.00	105.5 AV			1.77 V	117	61.4	44.1
4	#5926.58	79.9 PK	108.2	-28.3	1.77 V	117	66.7	13.2
5	#5926.58	70.1 AV	88.2	-18.1	1.77 V	117	56.9	13.2
6	11710.00	57.6 PK	74.0	-16.4	2.51 V	106	38.5	19.1
7	11710.00	47.9 AV	54.0	-6.1	2.51 V	106	28.8	19.1

Remarks:

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

RF Mode	802.11ax (HE160)	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5625.60	57.4 PK	68.2	-10.8	1.77 H	204	44.7	12.7
2	*5815.00	105.0 PK			1.77 H	204	61.1	43.9
3	*5815.00	96.7 AV			1.77 H	204	52.8	43.9
4	#5941.32	56.6 PK	108.2	-51.6	1.77 H	204	43.4	13.2
5	#5941.32	51.1 AV	88.2	-37.1	1.77 H	204	37.9	13.2
6	11630.00	57.0 PK	74.0	-17.0	2.21 H	190	38.2	18.8
7	11630.00	47.4 AV	54.0	-6.6	2.21 H	190	28.6	18.8
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	#5649.85	60.5 PK	68.2	-7.7	1.77 V	10	47.7	12.8
2	*5815.00	109.4 PK			1.77 V	10	65.5	43.9
3	*5815.00	100.3 AV			1.77 V	10	56.4	43.9
4	#5925.15	58.6 PK	108.2	-49.6	1.00 V	10	45.4	13.2
5	#5925.15	52.2 AV	88.2	-36.0	1.77 V	10	39.0	13.2
6	11630.00	58.0 PK	74.0	-16.0	1.41 V	194	39.2	18.8
7	11630.00	48.3 AV	54.0	-5.7	1.41 V	194	29.5	18.8

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

Test Mode B (CDD Mode)

RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5649.85	59.6 PK	68.2	-8.6	1.12 H	237	46.8	12.8
2	*5845.00	119.3 PK			1.12 H	237	75.3	44.0
3	*5845.00	112.4 AV			1.12 H	237	68.4	44.0
4	#5925.00	58.4 PK	108.2	-49.8	1.12 H	237	45.2	13.2
5	#5925.00	49.3 AV	88.2	-38.9	1.12 H	237	36.1	13.2
6	11690.00	58.1 PK	74.0	-15.9	1.64 H	195	39.2	18.9
7	11690.00	48.3 AV	54.0	-5.7	1.64 H	195	29.4	18.9
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	#5642.72	60.9 PK	68.2	-7.3	1.21 V	234	48.2	12.7
2	*5845.00	125.4 PK			1.21 V	234	81.4	44.0
3	*5845.00	116.9 AV			1.21 V	234	72.9	44.0
4	#5925.63	58.4 PK	108.2	-49.8	1.21 V	234	45.2	13.2
5	#5925.63	51.0 AV	88.2	-37.2	1.21 V	234	37.8	13.2
6	11690.00	58.8 PK	74.0	-15.2	1.75 V	6	39.9	18.9
7	11690.00	49.0 AV	54.0	-5.0	1.75 V	6	30.1	18.9

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11a	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5635.11	57.3 PK	68.2	-10.9	1.12 H	237	44.6	12.7
2	*5865.00	119.3 PK			1.12 H	237	75.2	44.1
3	*5865.00	111.9 AV			1.12 H	237	67.8	44.1
4	#5925.15	60.9 PK	108.2	-47.3	1.12 H	237	47.7	13.2
5	#5925.15	49.3 AV	88.2	-38.9	1.12 H	237	36.1	13.2
6	11730.00	58.7 PK	74.0	-15.3	1.14 H	164	39.7	19.0
7	11730.00	48.5 AV	54.0	-5.5	1.14 H	164	29.5	19.0
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	#5602.78	61.1 PK	68.2	-7.1	1.21 V	234	48.4	12.7
2	*5865.00	125.0 PK			1.21 V	234	80.9	44.1
3	*5865.00	116.4 AV			1.21 V	234	72.3	44.1
4	#5926.58	64.4 PK	108.2	-43.8	1.21 V	234	51.2	13.2
5	#5926.58	52.5 AV	88.2	-35.7	1.21 V	234	39.3	13.2
6	11730.00	59.4 PK	74.0	-14.6	1.17 V	145	40.4	19.0
7	11730.00	48.8 AV	54.0	-5.2	1.17 V	145	29.8	19.0

Remarks:

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

RF Mode	802.11a	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5624.65	57.7 PK	68.2	-10.5	1.12 H	237	45.0	12.7
2	*5885.00	119.2 PK			1.12 H	237	75.1	44.1
3	*5885.00	111.5 AV			1.12 H	237	67.4	44.1
4	#5925.00	67.9 PK	108.2	-40.3	1.12 H	237	54.7	13.2
5	#5925.00	56.0 AV	88.2	-32.2	1.12 H	237	42.8	13.2
6	11770.00	58.7 PK	74.0	-15.3	1.64 H	325	39.6	19.1
7	11770.00	48.6 AV	54.0	-5.4	1.64 H	325	29.5	19.1
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	#5616.57	60.8 PK	68.2	-7.4	1.21 V	234	48.1	12.7
2	*5885.00	124.7 PK			1.21 V	234	80.6	44.1
3	*5885.00	115.9 AV			1.21 V	234	71.8	44.1
4	#5925.15	74.0 PK	108.2	-34.2	1.21 V	234	60.8	13.2
5	#5925.15	60.1 AV	88.2	-28.1	1.21 V	234	46.9	13.2
6	11770.00	58.7 PK	74.0	-15.3	1.06 V	100	39.6	19.1
7	11770.00	48.9 AV	54.0	-5.1	1.06 V	100	29.8	19.1

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5563.31	56.9 PK	68.2	-11.3	1.12 H	237	44.1	12.8
2	*5845.00	118.4 PK			1.12 H	237	74.4	44.0
3	*5845.00	108.5 AV			1.12 H	237	64.5	44.0
4	#5926.58	57.1 PK	108.2	-51.1	1.12 H	237	43.9	13.2
5	#5926.58	48.6 AV	88.2	-39.6	1.12 H	237	35.4	13.2
6	11690.00	58.5 PK	74.0	-15.5	1.93 H	337	39.6	18.9
7	11690.00	48.7 AV	54.0	-5.3	1.93 H	337	29.8	18.9
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	#5639.39	61.5 PK	68.2	-6.7	1.21 V	234	48.8	12.7
2	*5845.00	124.1 PK			1.21 V	234	80.1	44.0
3	*5845.00	114.3 AV			1.21 V	234	70.3	44.0
4	#5926.10	60.6 PK	108.2	-47.6	1.21 V	234	47.4	13.2
5	#5926.10	52.0 AV	88.2	-36.2	1.21 V	234	38.8	13.2
6	11690.00	58.4 PK	74.0	-15.6	1.59 V	9	39.5	18.9
7	11690.00	48.5 AV	54.0	-5.5	1.59 V	9	29.6	18.9

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20)	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5608.01	56.3 PK	68.2	-11.9	1.12 H	237	43.6	12.7
2	*5865.00	118.2 PK			1.12 H	237	74.1	44.1
3	*5865.00	108.2 AV			1.12 H	237	64.1	44.1
4	#5925.63	58.7 PK	108.2	-49.5	1.12 H	237	45.5	13.2
5	#5925.63	50.4 AV	88.2	-37.8	1.12 H	237	37.2	13.2
6	11730.00	58.6 PK	74.0	-15.4	1.73 H	2	39.6	19.0
7	11730.00	48.5 AV	54.0	-5.5	1.73 H	2	29.5	19.0
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	#5590.89	60.2 PK	68.2	-8.0	1.21 V	234	47.5	12.7
2	*5865.00	124.2 PK			1.21 V	234	80.1	44.1
3	*5865.00	113.9 AV			1.21 V	234	69.8	44.1
4	#5927.05	63.3 PK	108.2	-44.9	1.21 V	234	50.1	13.2
5	#5927.05	53.7 AV	88.2	-34.5	1.21 V	234	40.5	13.2
6	11730.00	58.8 PK	74.0	-15.2	1.67 V	190	39.8	19.0
7	11730.00	49.1 AV	54.0	-4.9	1.67 V	190	30.1	19.0

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5643.31	55.3 PK	68.2	-12.9	1.96 H	349	42.6	12.7
2	*5885.00	117.3 PK			1.96 H	349	73.2	44.1
3	*5885.00	107.0 AV			1.96 H	349	62.9	44.1
4	#5895.00	105.4 PK	130.2	-24.8	1.96 H	349	92.2	13.2
5	#5895.00	93.1 AV	110.2	-17.1	1.96 H	349	79.9	13.2
6	11770.00	58.1 PK	74.0	-15.9	1.67 H	321	39.0	19.1
7	11770.00	48.3 AV	54.0	-5.7	1.67 H	321	29.2	19.1
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	#5640.20	58.9 PK	68.2	-9.3	2.00 V	170	46.1	12.8
2	*5885.00	122.9 PK			2.00 V	170	78.7	44.2
3	*5885.00	113.5 AV			2.00 V	170	69.3	44.2
4	#5895.00	112.2 PK	130.2	-18.0	2.00 V	170	98.8	13.4
5	#5895.00	100.6 AV	110.2	-9.6	2.00 V	170	87.2	13.4
6	11770.00	58.2 PK	74.0	-15.8	1.63 V	290	39.1	19.1
7	11770.00	48.3 AV	54.0	-5.7	1.63 V	290	29.2	19.1

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5638.91	57.7 PK	68.2	-10.5	1.12 H	237	45.0	12.7
2	*5835.00	116.3 PK			1.12 H	237	72.3	44.0
3	*5835.00	106.5 AV			1.12 H	237	62.5	44.0
4	#5925.00	64.6 PK	108.2	-43.6	1.12 H	237	51.4	13.2
5	#5925.00	54.6 AV	88.2	-33.6	1.12 H	237	41.4	13.2
6	11670.00	58.9 PK	74.0	-15.1	1.68 H	127	40.1	18.8
7	11670.00	49.3 AV	54.0	-4.7	1.68 H	127	30.5	18.8
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	#5627.50	59.7 PK	68.2	-8.5	1.21 V	234	47.0	12.7
2	*5835.00	121.5 PK			1.21 V	234	77.5	44.0
3	*5835.00	111.4 AV			1.21 V	234	67.4	44.0
4	#5928.95	66.5 PK	108.2	-41.7	1.21 V	234	53.3	13.2
5	#5928.95	57.9 AV	88.2	-30.3	1.21 V	234	44.7	13.2
6	11670.00	58.0 PK	74.0	-16.0	2.61 V	124	39.2	18.8
7	11670.00	48.6 AV	54.0	-5.4	2.61 V	124	29.8	18.8

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5643.30	57.0 PK	68.2	-11.2	1.96 H	349	44.3	12.7
2	*5875.00	116.8 PK			1.96 H	349	72.7	44.1
3	*5875.00	106.9 AV			1.96 H	349	62.8	44.1
4	#5922.40	82.8 PK	110.1	-27.3	1.96 H	349	69.6	13.2
5	#5922.40	73.0 AV	90.1	-17.1	1.96 H	349	59.8	13.2
6	11750.00	58.0 PK	74.0	-16.0	1.37 H	309	39.0	19.0
7	11750.00	47.8 AV	54.0	-6.2	1.37 H	309	28.8	19.0
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	#5618.87	59.8 PK	68.2	-8.4	2.00 V	170	47.1	12.7
2	*5875.00	121.7 PK			2.00 V	170	77.6	44.1
3	*5875.00	111.8 AV			2.00 V	170	67.7	44.1
4	#5924.30	91.9 PK	108.7	-16.8	2.00 V	170	78.7	13.2
5	#5924.30	76.0 AV	88.7	-12.7	2.00 V	170	62.8	13.2
6	11750.00	58.2 PK	74.0	-15.8	1.99 V	328	39.2	19.0
7	11750.00	48.4 AV	54.0	-5.6	1.99 V	328	29.4	19.0

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5647.47	60.4 PK	68.2	-7.8	1.96 H	349	47.6	12.8
2	*5855.00	113.1 PK			1.96 H	349	69.0	44.1
3	*5855.00	103.9 AV			1.96 H	349	59.8	44.1
4	#5937.51	78.8 PK	108.2	-29.4	1.96 H	349	65.6	13.2
5	#5937.51	69.7 AV	88.2	-18.5	1.96 H	349	56.5	13.2
6	11710.00	58.4 PK	74.0	-15.6	1.75 H	54	39.3	19.1
7	11710.00	48.8 AV	54.0	-5.2	1.75 H	54	29.7	19.1
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	#5648.90	64.6 PK	68.2	-3.6	2.00 V	170	51.8	12.8
2	*5855.00	118.8 PK			2.00 V	170	74.7	44.1
3	*5855.00	109.1 AV			2.00 V	170	65.0	44.1
4	#5929.43	83.3 PK	108.2	-24.9	2.00 V	170	70.1	13.2
5	#5929.43	74.5 AV	88.2	-13.7	2.00 V	170	61.3	13.2
6	11710.00	57.9 PK	74.0	-16.1	1.67 V	310	38.8	19.1
7	11710.00	48.3 AV	54.0	-5.7	1.67 V	310	29.2	19.1

Remarks:

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

RF Mode	802.11ax (HE160)	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5583.76	63.5 PK	68.2	-4.7	1.96 H	349	50.8	12.7
2	*5815.00	105.7 PK			1.96 H	349	61.8	43.9
3	*5815.00	95.8 AV			1.96 H	349	51.9	43.9
4	#5945.60	62.9 PK	108.2	-45.3	1.96 H	349	49.7	13.2
5	#5945.60	52.6 AV	88.2	-35.6	1.96 H	349	39.4	13.2
6	11630.00	58.2 PK	74.0	-15.8	1.02 H	100	39.4	18.8
7	11630.00	48.4 AV	54.0	-5.6	1.02 H	100	29.6	18.8
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	#5639.86	67.1 PK	68.2	-1.1	2.00 V	170	54.4	12.7
2	*5815.00	110.6 PK			2.00 V	170	66.7	43.9
3	*5815.00	101.3 AV			2.00 V	170	57.4	43.9
4	#5927.05	69.7 PK	108.2	-38.5	2.00 V	170	56.5	13.2
5	#5927.05	56.6 AV	88.2	-31.6	2.00 V	170	43.4	13.2
6	11630.00	57.9 PK	74.0	-16.1	1.93 V	3	39.1	18.8
7	11630.00	48.1 AV	54.0	-5.9	1.93 V	3	29.3	18.8

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

Test Mode B (Beamforming Mode)

RF Mode	802.11ax (HE20)	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5640.50	57.8 PK	68.2	-10.4	2.00 H	334	45.1	12.7
2	*5845.00	116.1 PK			2.00 H	334	72.1	44.0
3	*5845.00	108.5 AV			2.00 H	334	64.5	44.0
4	#5930.16	57.0 PK	108.2	-51.2	2.00 H	334	43.8	13.2
5	#5930.16	48.2 AV	88.2	-40.0	2.00 H	334	35.0	13.2
6	11690.00	57.8 PK	74.0	-16.2	1.15 H	164	38.9	18.9
7	11690.00	47.6 AV	54.0	-6.4	1.15 H	164	28.7	18.9
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	#5649.00	58.5 PK	68.2	-9.7	2.26 V	131	45.7	12.8
2	*5845.00	119.3 PK			2.26 V	131	75.3	44.0
3	*5845.00	111.5 AV			2.26 V	131	67.5	44.0
4	#5928.80	58.1 PK	108.2	-50.1	2.26 V	131	44.9	13.2
5	#5928.80	51.1 AV	88.2	-37.1	2.26 V	131	37.9	13.2
6	11690.00	58.1 PK	74.0	-15.9	1.16 V	9	39.2	18.9
7	11690.00	48.2 AV	54.0	-5.8	1.16 V	9	29.3	18.9

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20)	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5635.50	58.1 PK	68.2	-10.1	2.00 H	334	45.4	12.7
2	*5865.00	115.4 PK			2.00 H	334	71.3	44.1
3	*5865.00	107.4 AV			2.00 H	334	63.3	44.1
4	#5944.80	58.0 PK	108.2	-50.2	2.00 H	334	44.8	13.2
5	#5944.80	47.8 AV	88.2	-40.4	2.00 H	334	34.6	13.2
6	11730.00	58.1 PK	74.0	-15.9	1.54 H	109	39.1	19.0
7	11730.00	48.2 AV	54.0	-5.8	1.54 H	109	29.2	19.0
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	#5641.10	58.2 PK	68.2	-10.0	2.26 V	131	45.5	12.7
2	*5865.00	118.5 PK			2.26 V	131	74.4	44.1
3	*5865.00	110.4 AV			2.26 V	131	66.3	44.1
4	#5930.30	58.0 PK	108.2	-50.2	2.26 V	131	44.8	13.2
5	#5930.30	49.1 AV	88.2	-39.1	2.26 V	131	35.9	13.2
6	11730.00	58.2 PK	74.0	-15.8	1.75 V	320	39.2	19.0
7	11730.00	48.1 AV	54.0	-5.9	1.75 V	320	29.1	19.0

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5586.61	57.7 PK	68.2	-10.5	2.07 H	322	45.0	12.7
2	*5885.00	114.9 PK			2.07 H	322	70.8	44.1
3	*5885.00	105.8 AV			2.07 H	322	61.7	44.1
4	#5925.00	59.2 PK	108.2	-49.0	2.07 H	332	46.0	13.2
5	#5925.00	49.3 AV	88.2	-38.9	2.07 H	322	36.1	13.2
6	11770.00	57.2 PK	74.0	-16.8	1.61 H	91	38.1	19.1
7	11770.00	47.4 AV	54.0	-6.6	1.61 H	91	28.3	19.1
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	#5637.96	59.3 PK	68.2	-8.9	2.26 V	131	46.6	12.7
2	*5885.00	118.3 PK			2.26 V	131	74.2	44.1
3	*5885.00	108.5 AV			2.26 V	131	64.4	44.1
4	#5925.00	58.5 PK	108.2	-49.7	2.26 V	131	45.3	13.2
5	#5925.00	49.1 AV	88.2	-39.1	2.26 V	131	35.9	13.2
6	11770.00	57.5 PK	74.0	-16.5	2.75 V	148	38.4	19.1
7	11770.00	47.7 AV	54.0	-6.3	2.75 V	148	28.6	19.1

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5622.50	58.3 PK	68.2	-9.9	2.00 H	334	45.6	12.7
2	*5835.00	114.3 PK			2.00 H	334	70.3	44.0
3	*5835.00	106.6 AV			2.00 H	334	62.6	44.0
4	#5945.51	58.1 PK	108.2	-50.1	2.00 H	334	44.9	13.2
5	#5945.51	48.0 AV	88.2	-40.2	2.00 H	334	34.8	13.2
6	11670.00	58.2 PK	74.0	-15.8	1.88 H	314	39.4	18.8
7	11670.00	48.1 AV	54.0	-5.9	1.88 H	314	29.3	18.8
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	#5633.60	58.2 PK	68.2	-10.0	2.26 V	131	45.5	12.7
2	*5835.00	117.0 PK			2.26 V	131	73.0	44.0
3	*5835.00	109.8 AV			2.26 V	131	65.8	44.0
4	#5927.70	58.1 PK	108.2	-50.1	2.26 V	131	44.9	13.2
5	#5927.70	48.2 AV	88.2	-40.0	2.26 V	131	35.0	13.2
6	11670.00	57.2 PK	74.0	-16.8	1.08 V	115	38.4	18.8
7	11670.00	47.3 AV	54.0	-6.7	1.08 V	115	28.5	18.8

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5649.85	58.9 PK	68.2	-9.3	2.07 H	322	46.1	12.8
2	*5875.00	114.6 PK			2.07 H	322	70.5	44.1
3	*5875.00	105.3 AV			2.07 H	322	61.2	44.1
4	#5925.63	67.8 PK	108.2	-40.4	2.07 H	322	54.6	13.2
5	#5925.63	57.9 AV	88.2	-30.3	2.07 H	322	44.7	13.2
6	11750.00	57.6 PK	74.0	-16.4	2.84 H	210	38.6	19.0
7	11750.00	47.9 AV	54.0	-6.1	2.84 H	210	28.9	19.0
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	#5587.56	57.9 PK	68.2	-10.3	2.26 V	138	45.2	12.7
2	*5875.00	117.4 PK			2.26 V	138	73.3	44.1
3	*5875.00	108.4 AV			2.26 V	138	64.3	44.1
4	#5925.63	68.5 PK	108.2	-39.7	2.26 V	138	55.3	13.2
5	#5925.63	58.4 AV	88.2	-29.8	2.26 V	138	45.2	13.2
6	11750.00	57.2 PK	74.0	-16.8	1.54 V	121	38.2	19.0
7	11750.00	47.5 AV	54.0	-6.5	1.54 V	121	28.5	19.0

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5643.19	59.4 PK	68.2	-8.8	2.04 H	317	46.7	12.7
2	*5855.00	112.8 PK			2.04 H	317	68.7	44.1
3	*5855.00	103.4 AV			2.04 H	317	59.3	44.1
4	#5925.63	77.6 PK	108.2	-30.6	2.04 H	317	64.4	13.2
5	#5925.63	66.4 AV	88.2	-21.8	2.04 H	317	53.2	13.2
6	11710.00	57.7 PK	74.0	-16.3	2.88 H	115	38.6	19.1
7	11710.00	47.9 AV	54.0	-6.1	2.88 H	115	28.8	19.1
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	#5642.72	58.9 PK	68.2	-9.3	2.26 V	146	46.2	12.7
2	*5855.00	116.5 PK			2.26 V	146	72.4	44.1
3	*5855.00	107.6 AV			2.26 V	146	63.5	44.1
4	#5925.00	76.3 PK	108.2	-31.9	2.26 V	146	63.1	13.2
5	#5925.00	65.1 AV	88.2	-23.1	2.26 V	146	51.9	13.2
6	11710.00	58.1 PK	74.0	-15.9	2.23 V	175	39.0	19.1
7	11710.00	48.3 AV	54.0	-5.7	2.23 V	175	29.2	19.1

Remarks:

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

RF Mode	802.11ax (HE160)	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 62% RH
Tested By	Charles Hsiao		

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	#5561.41	56.0 PK	68.2	-12.2	2.00 H	291	43.2	12.8
2	*5815.00	104.8 PK			2.00 H	291	60.9	43.9
3	*5815.00	96.2 AV			2.00 H	291	52.3	43.9
4	#5987.44	56.3 PK	108.2	-51.9	2.00 H	291	43.0	13.3
5	#5987.44	47.3 PK	108.2	-60.9	2.00 H	291	34.0	13.3
6	11630.00	57.0 PK	74.0	-17.0	2.54 H	114	38.2	18.8
7	11630.00	47.2 AV	54.0	-6.8	2.54 H	114	28.4	18.8
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	#5644.62	59.8 PK	68.2	-8.4	2.26 V	124	47.0	12.8
2	*5815.00	107.4 PK			2.26 V	124	63.5	43.9
3	*5815.00	97.8 AV			2.26 V	124	53.9	43.9
4	#5926.58	59.1 PK	108.2	-49.1	2.26 V	124	45.9	13.2
5	#5926.58	48.3 AV	88.2	-39.9	2.26 V	124	35.1	13.2
6	11630.00	57.2 PK	74.0	-16.8	1.34 V	223	38.4	18.8
7	11630.00	47.5 AV	54.0	-6.5	1.34 V	223	28.7	18.8

Remarks:

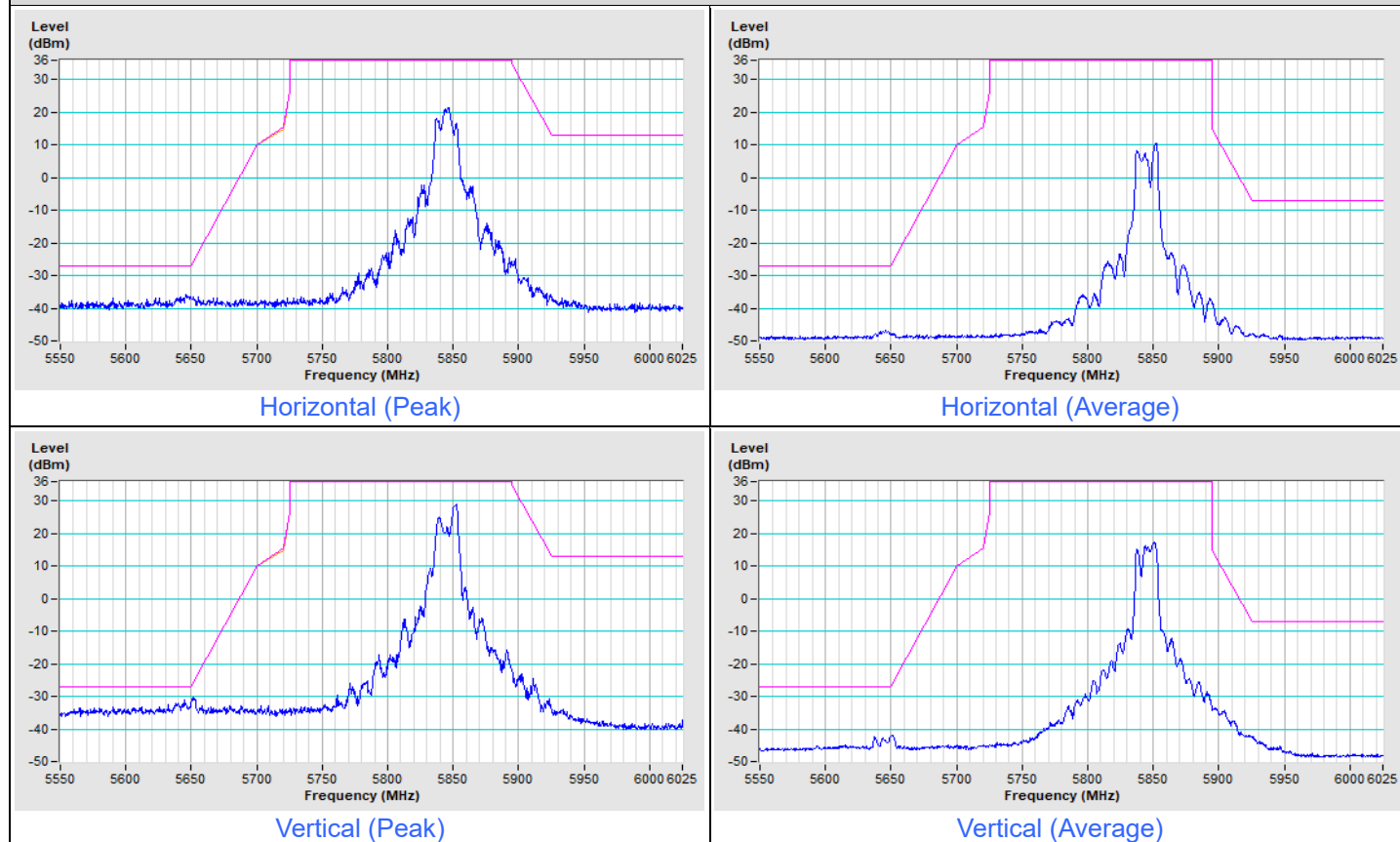
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

Plot of Band Edge

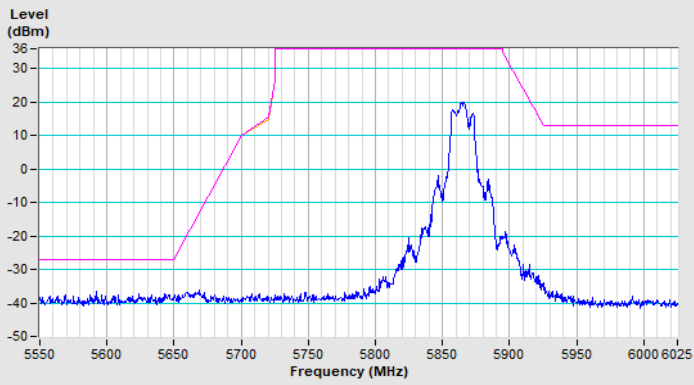
Test Mode A (CDD Mode)

Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 MHz (RMS)
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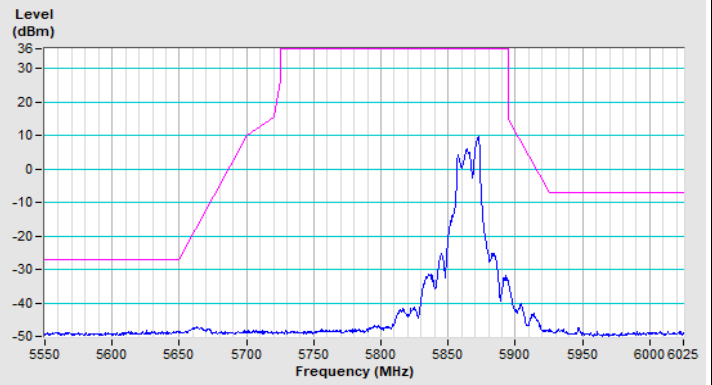
802.11a Channel 169



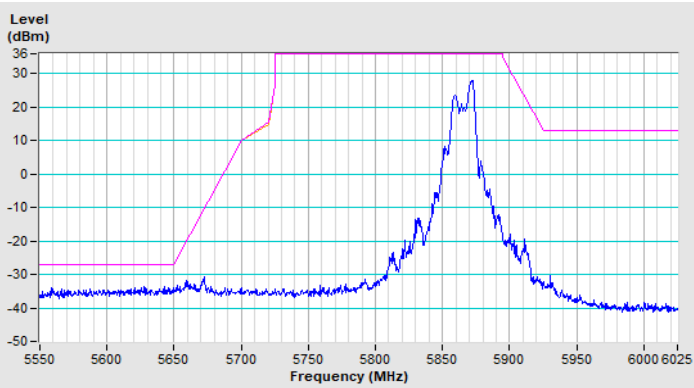
802.11a Channel 173



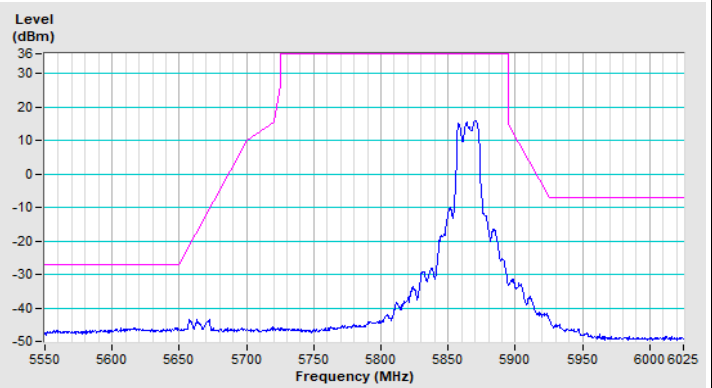
Horizontal (Peak)



Horizontal (Average)

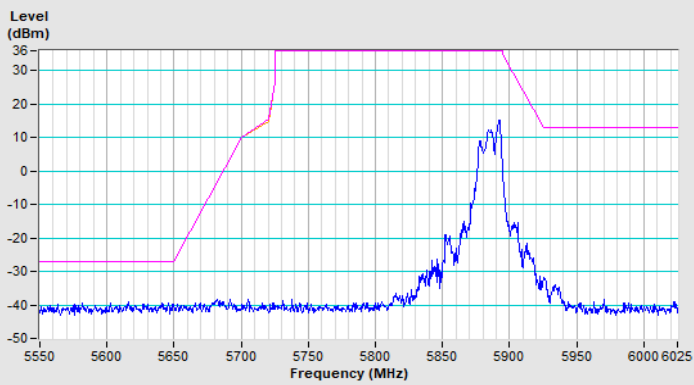


Vertical (Peak)

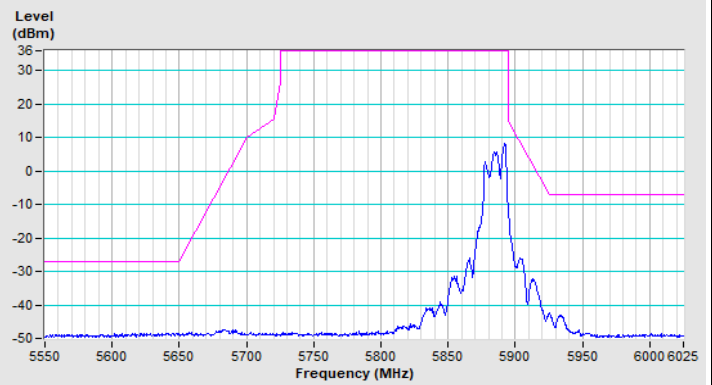


Vertical (Average)

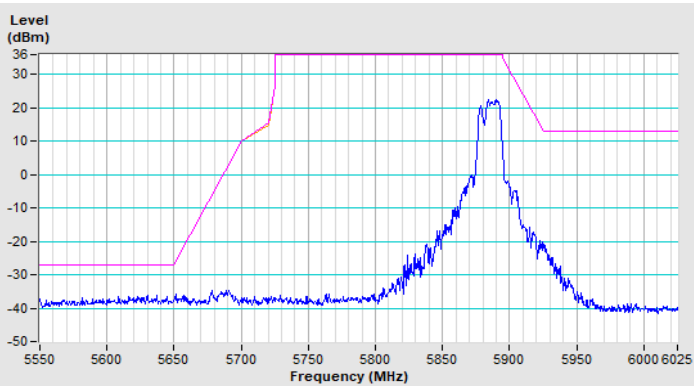
802.11a Channel 177



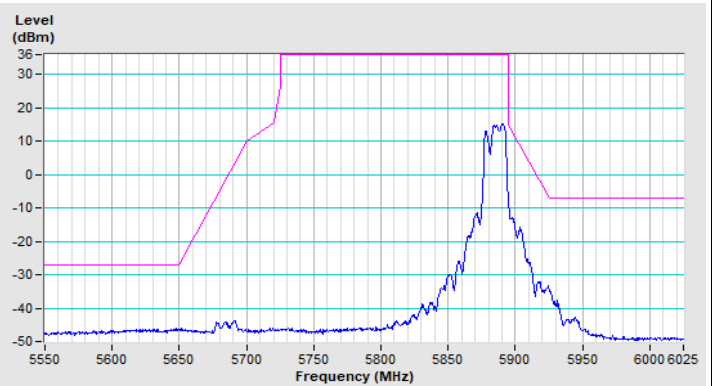
Horizontal (Peak)



Horizontal (Average)

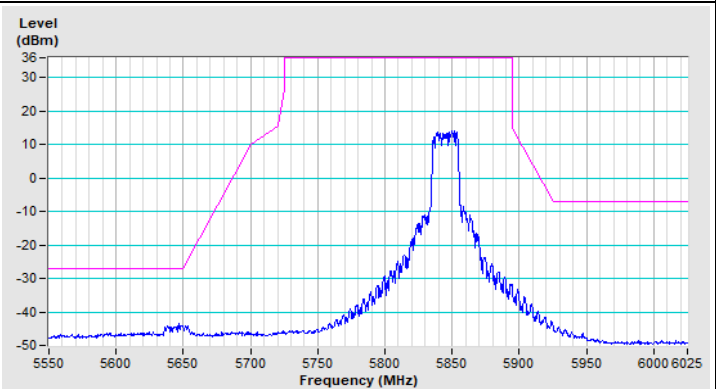
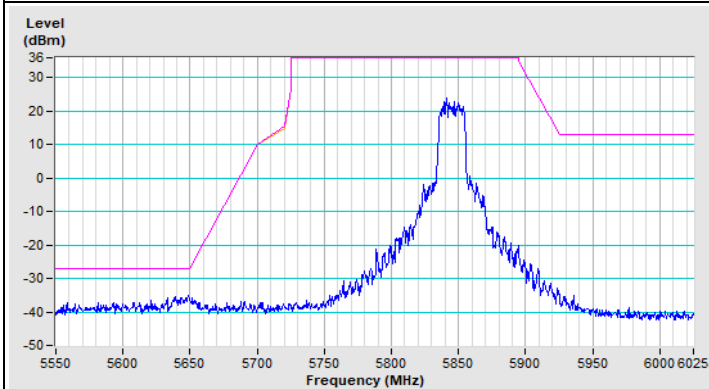
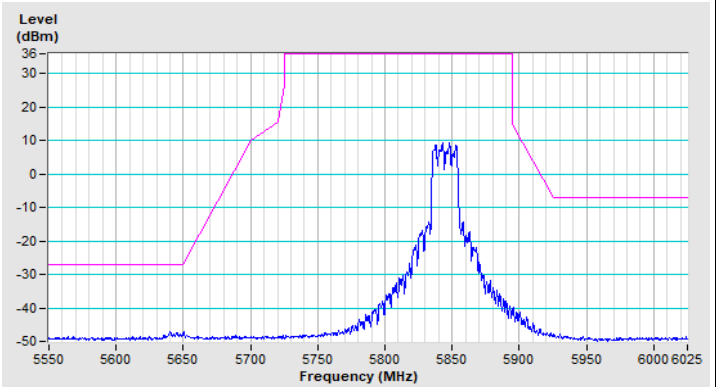
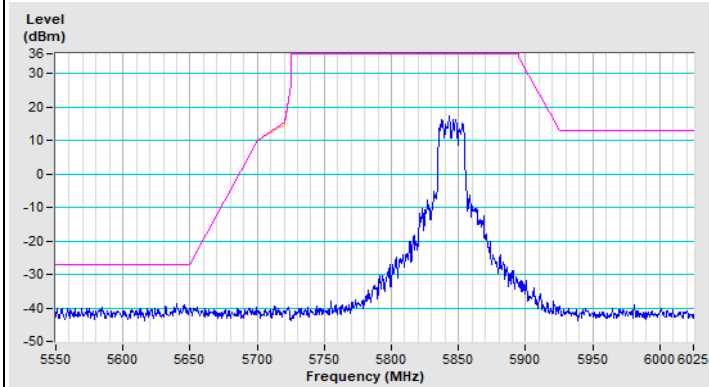


Vertical (Peak)

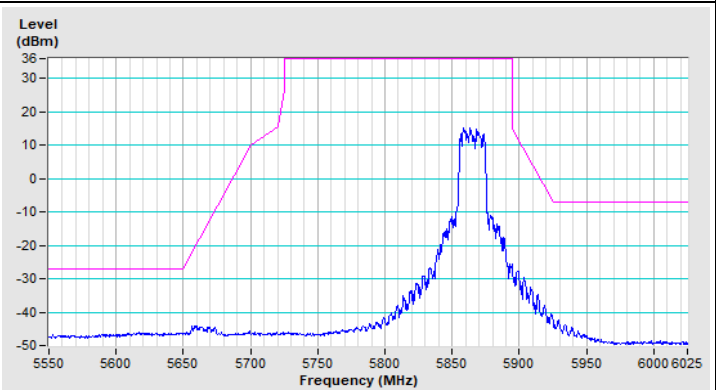
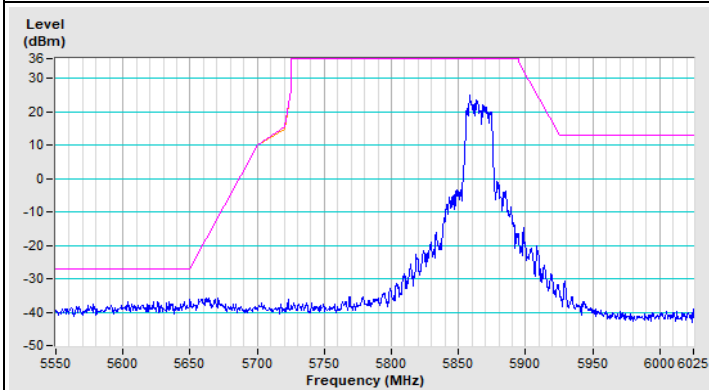
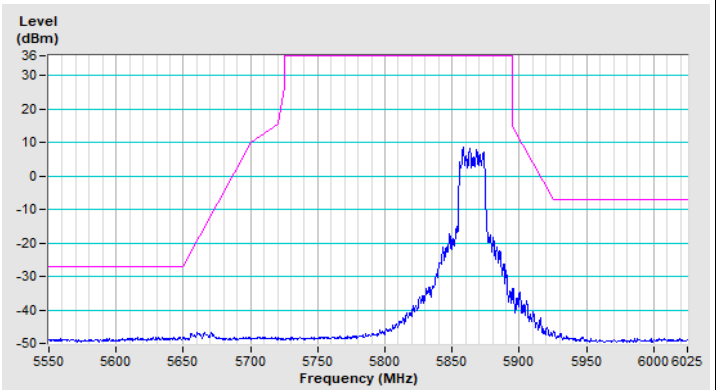
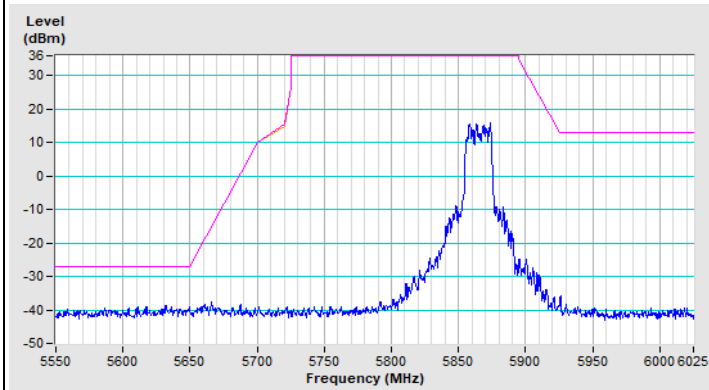


Vertical (Average)

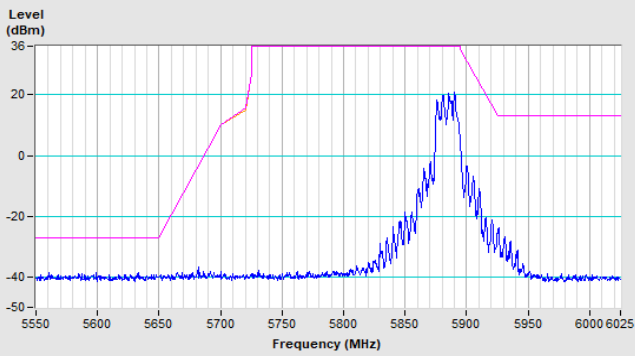
802.11ax (HE20) Channel 169



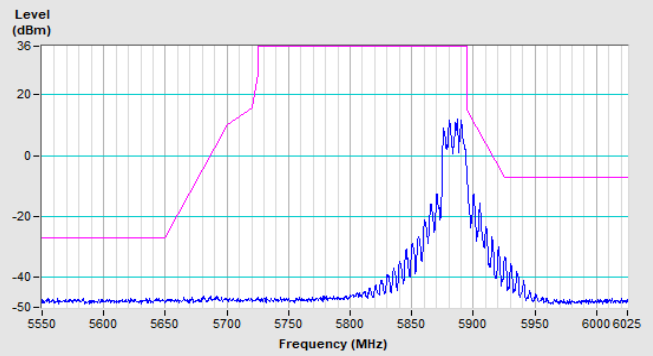
802.11ax (HE20) Channel 173



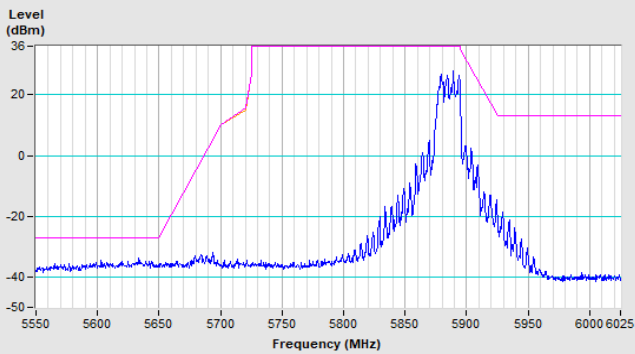
802.11ax (HE20) Channel 177



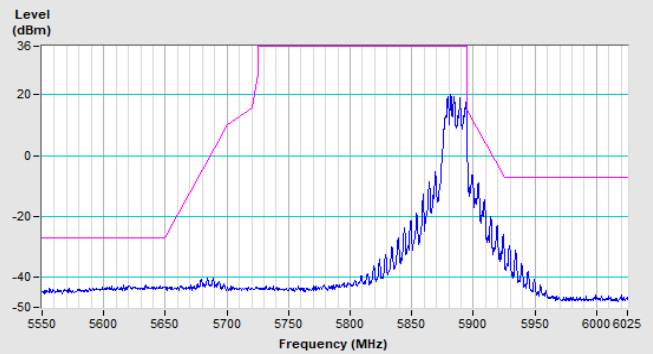
Horizontal (Peak)



Horizontal (Average)

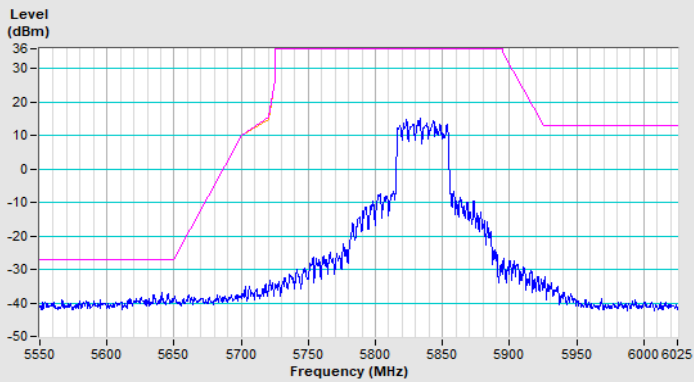


Vertical (Peak)

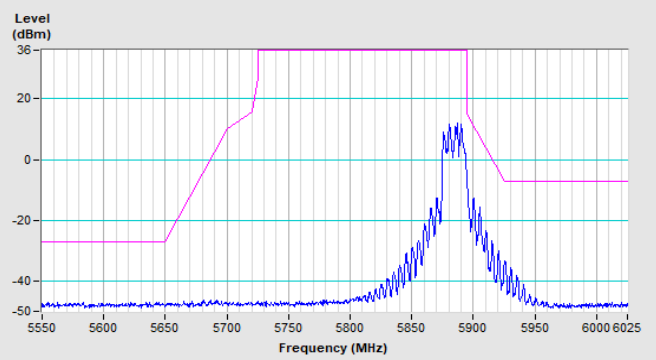


Vertical (Average)

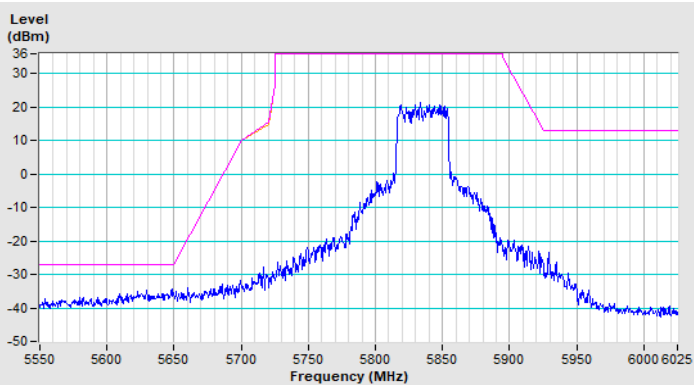
802.11ax (HE40) Channel 167



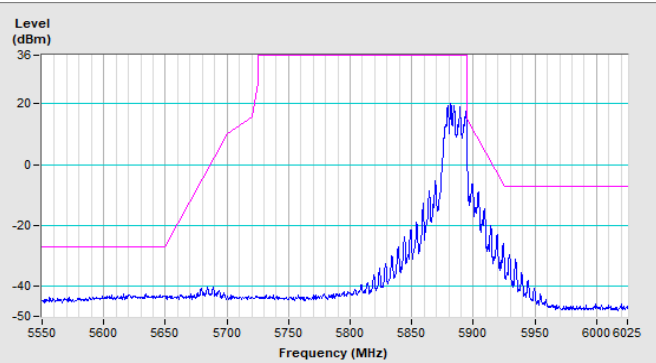
Horizontal (Peak)



Horizontal (Average)

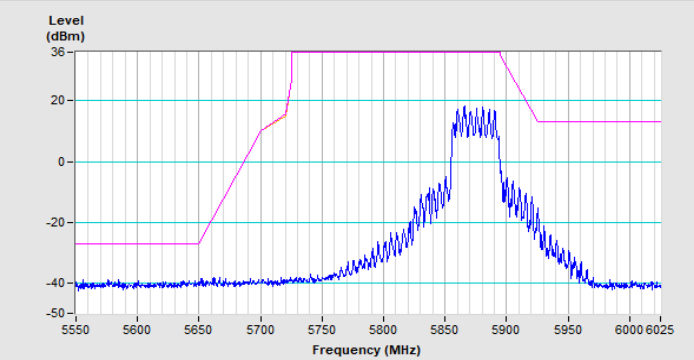


Vertical (Peak)

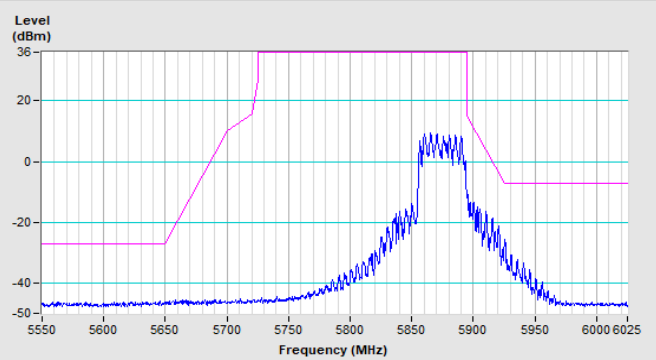


Vertical (Average)

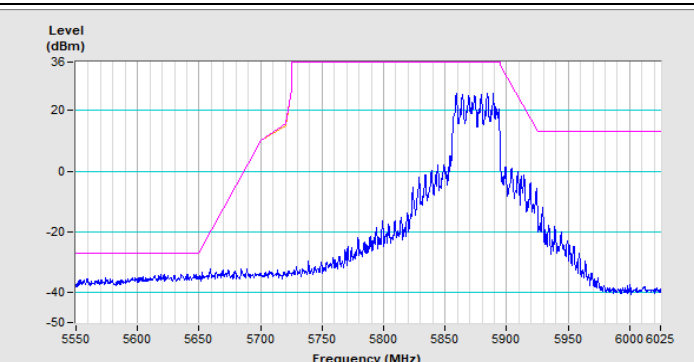
802.11ax (HE40) Channel 175



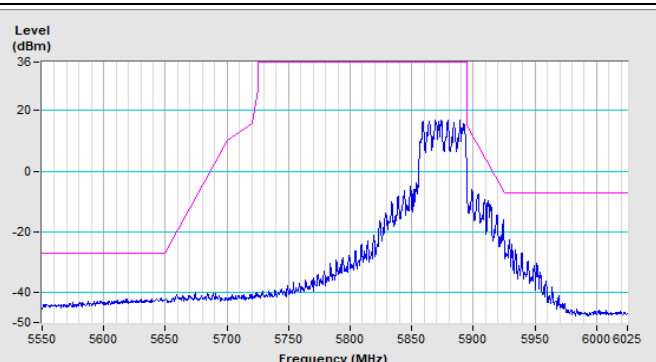
Horizontal (Peak)



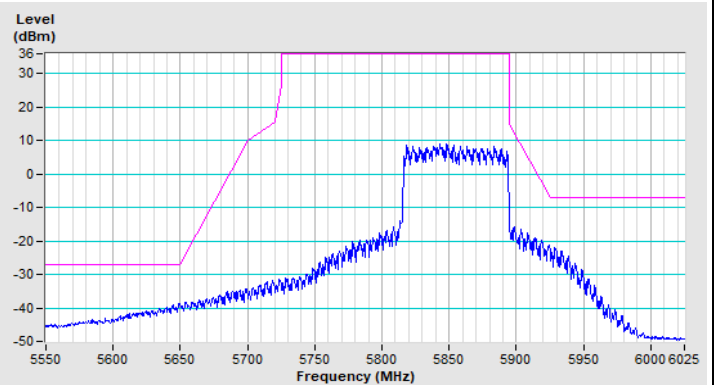
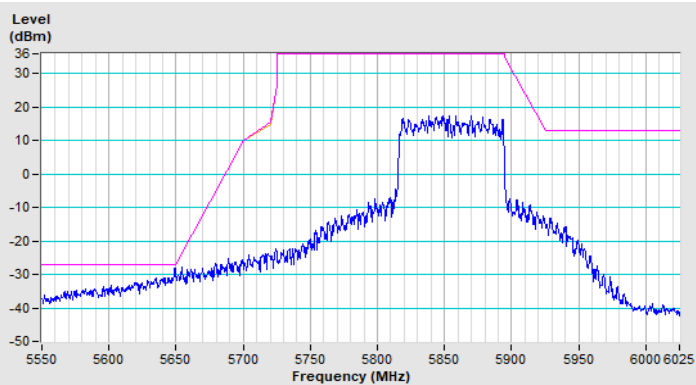
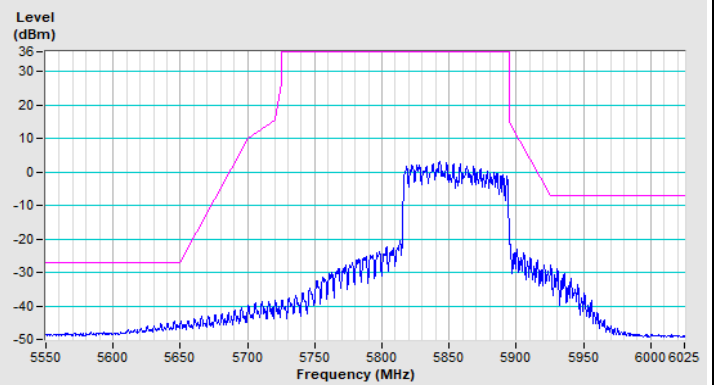
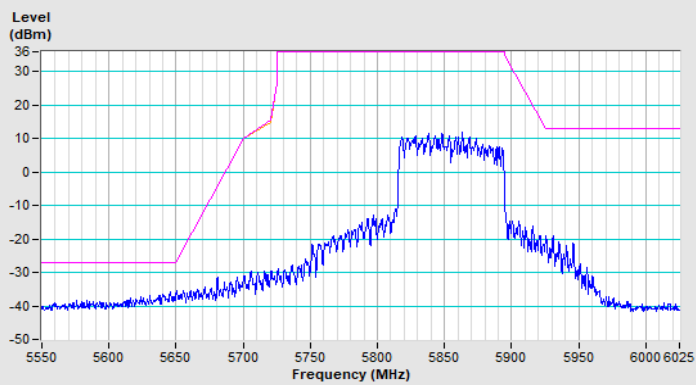
Horizontal (Average)



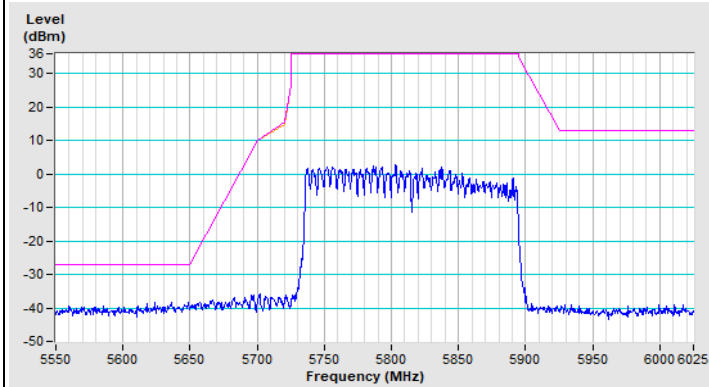
Vertical (Peak)



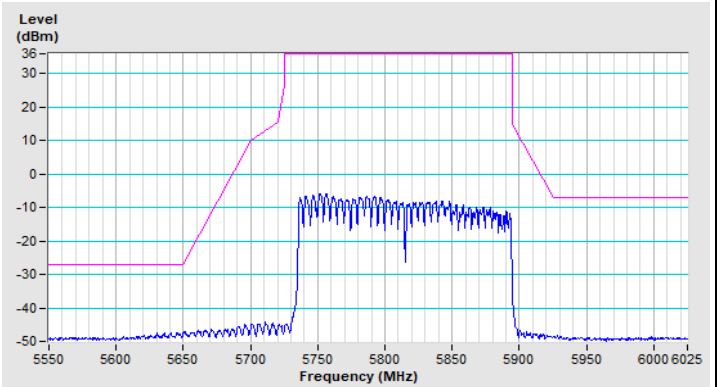
Vertical (Average)

802.11ax (HE80) Channel 171

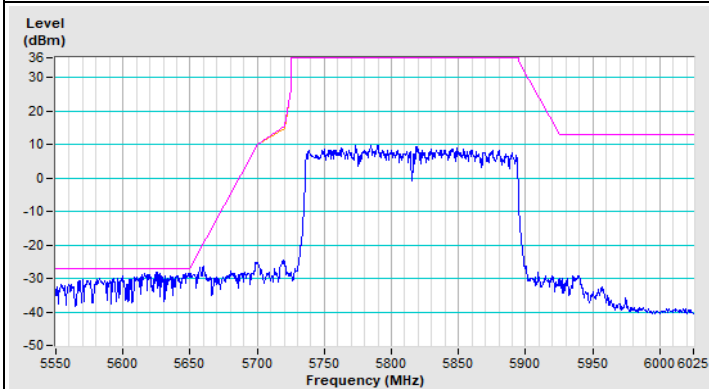
802.11ax (HE160) Channel 163



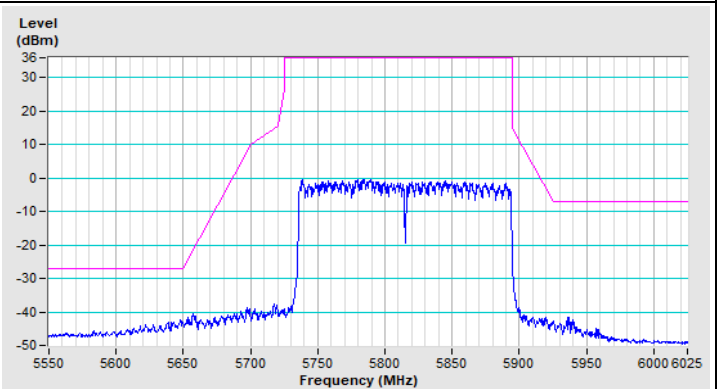
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

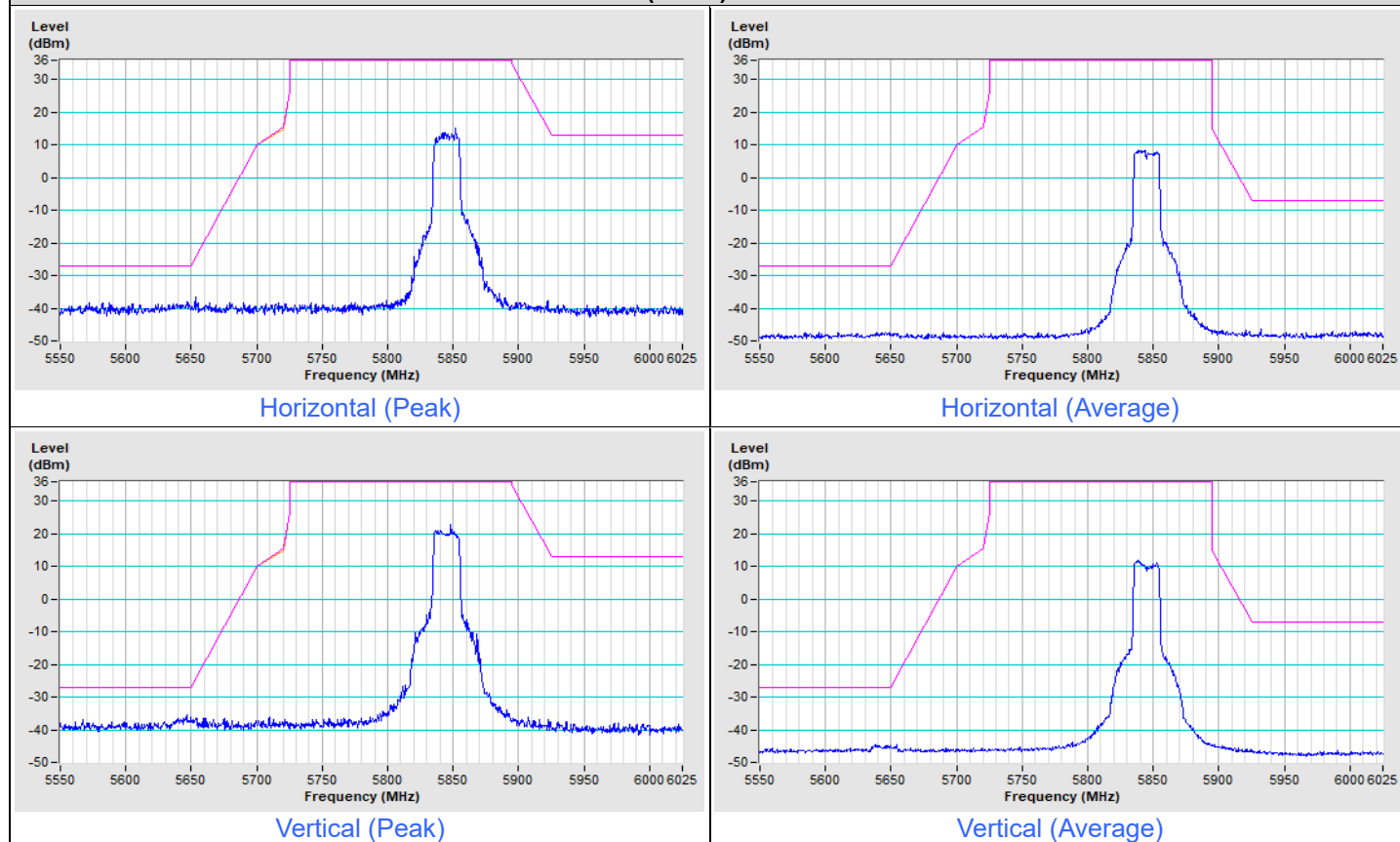


Vertical (Average)

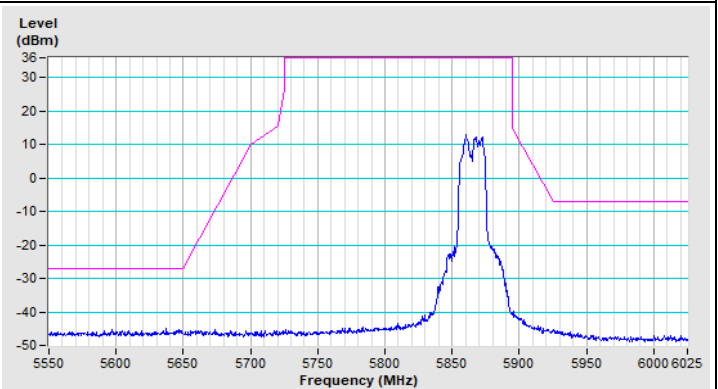
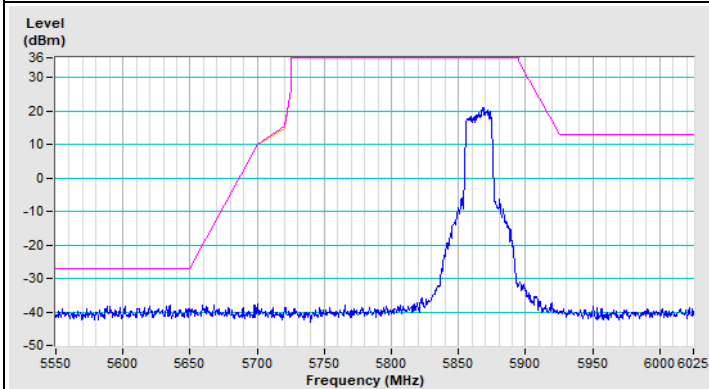
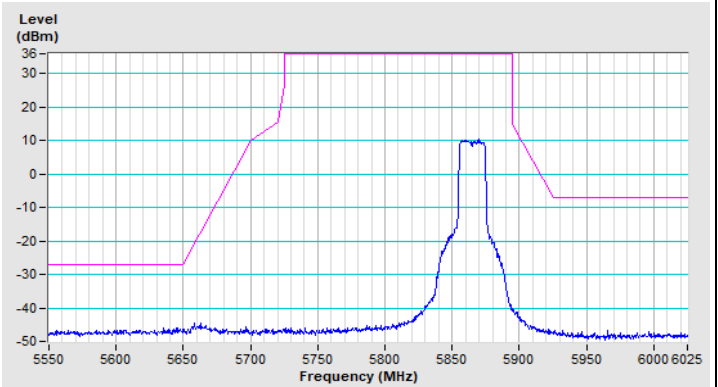
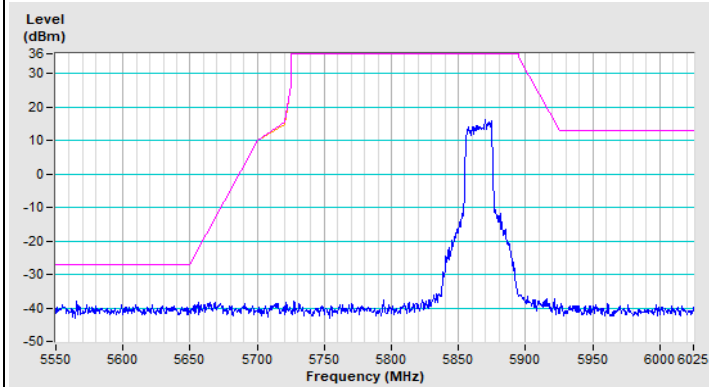
Test Mode A (Beamforming Mode)

Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 MHz (RMS)
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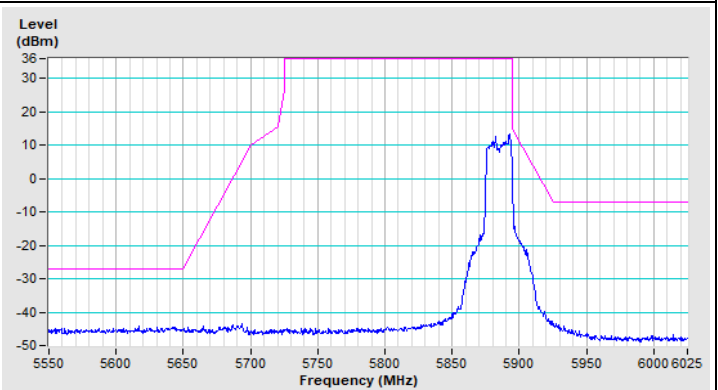
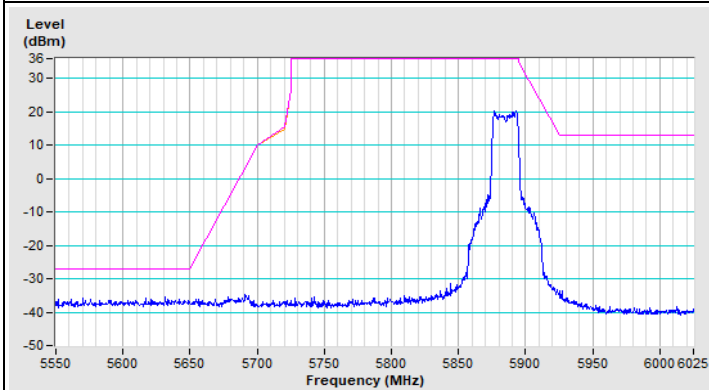
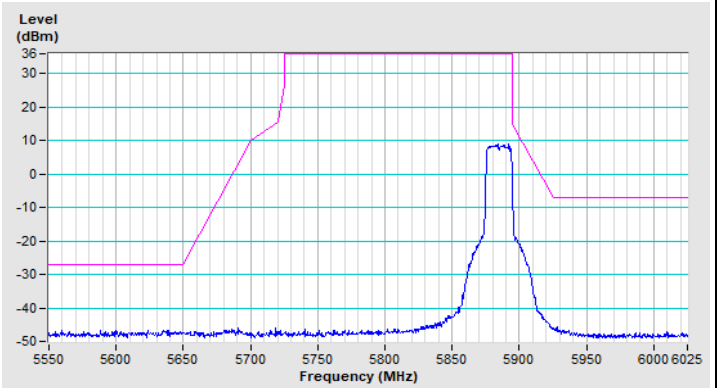
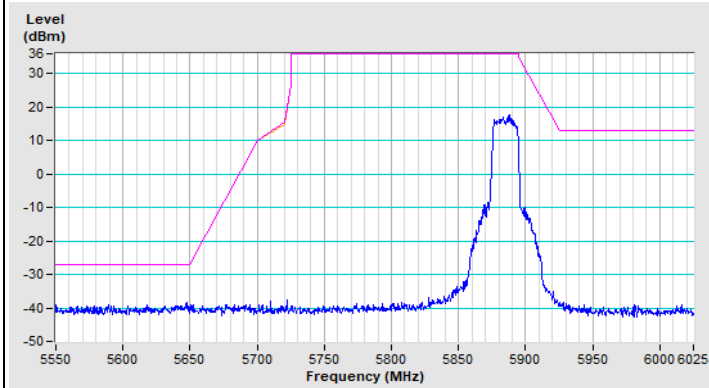
802.11ax (HE20) Channel 169



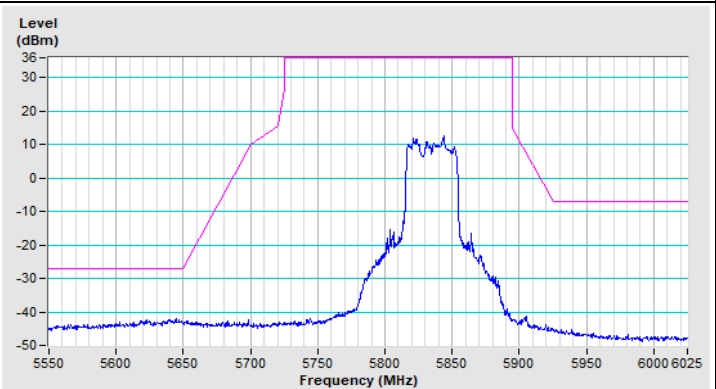
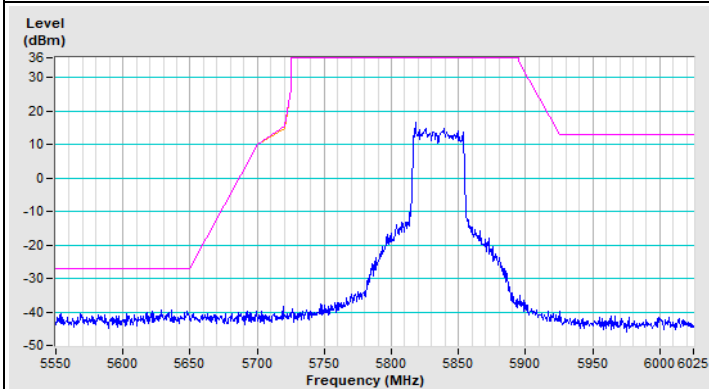
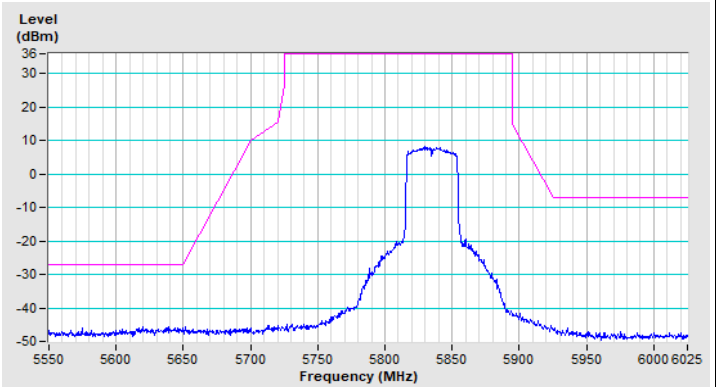
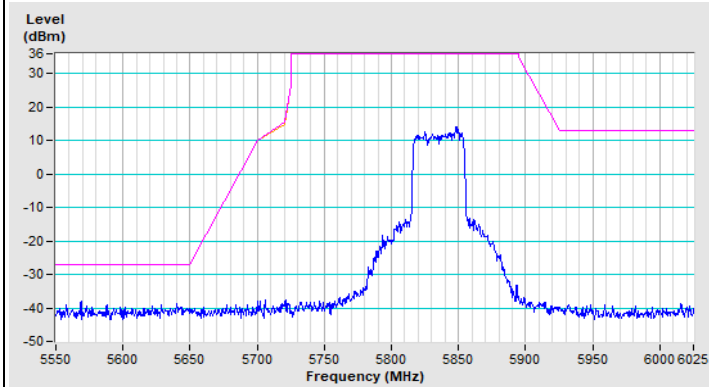
802.11ax (HE20) Channel 173



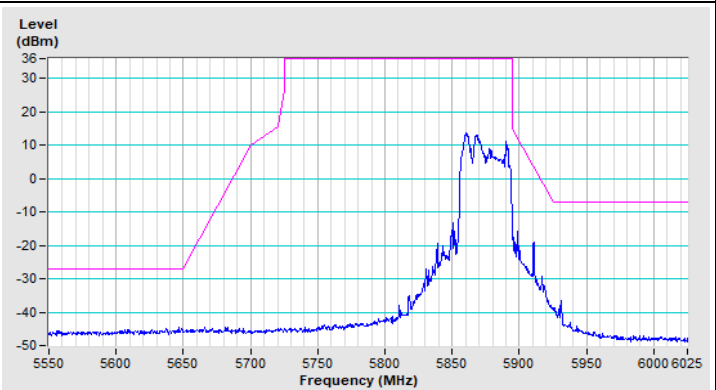
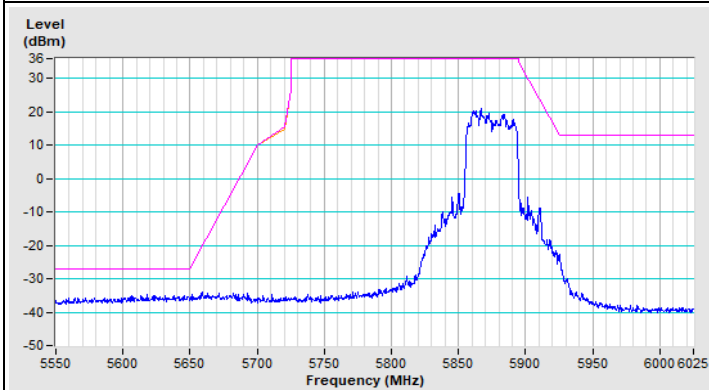
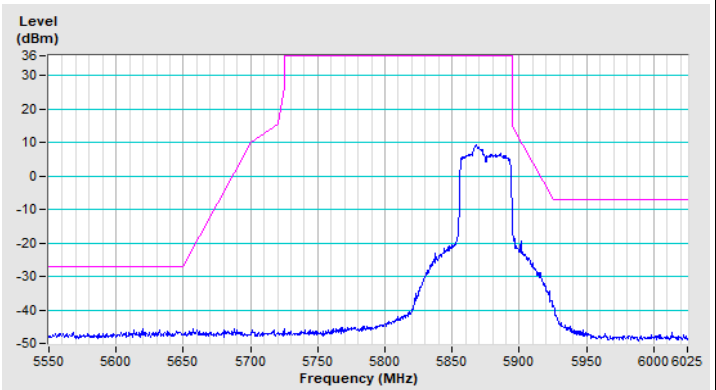
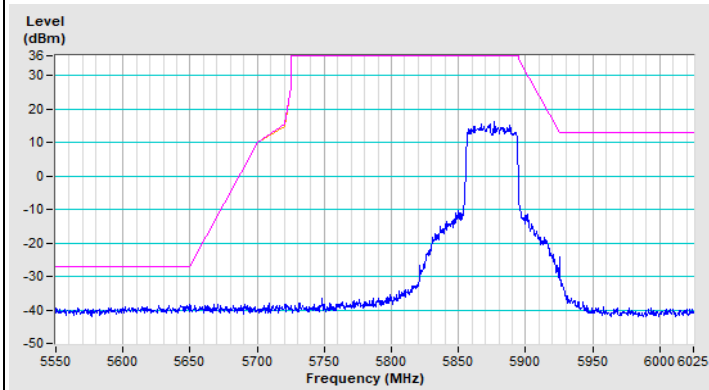
802.11ax (HE20) Channel 177



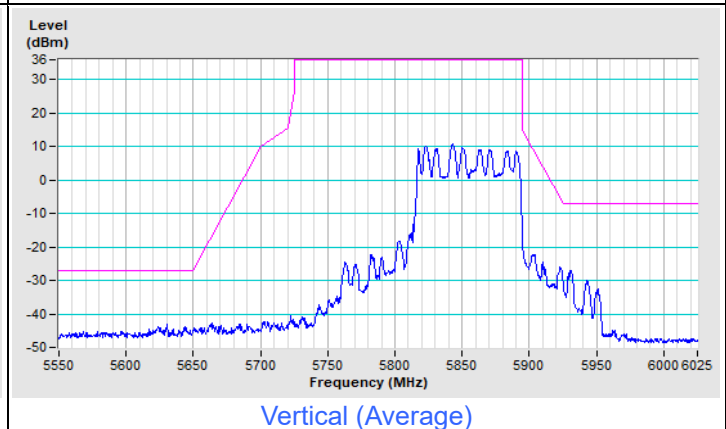
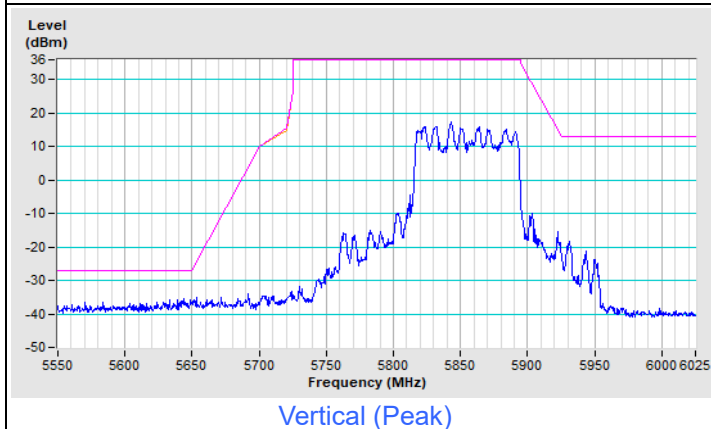
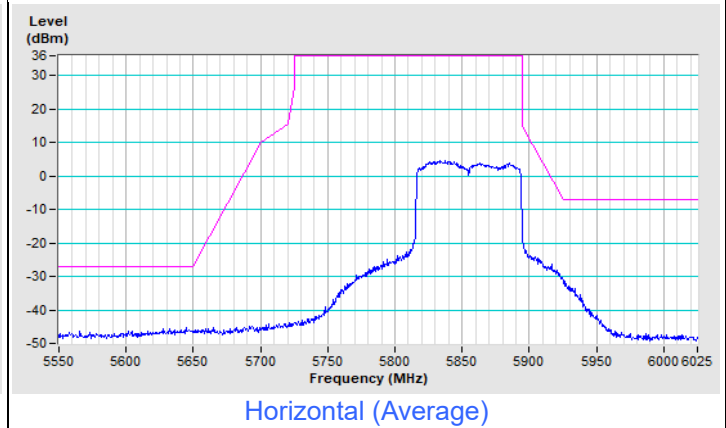
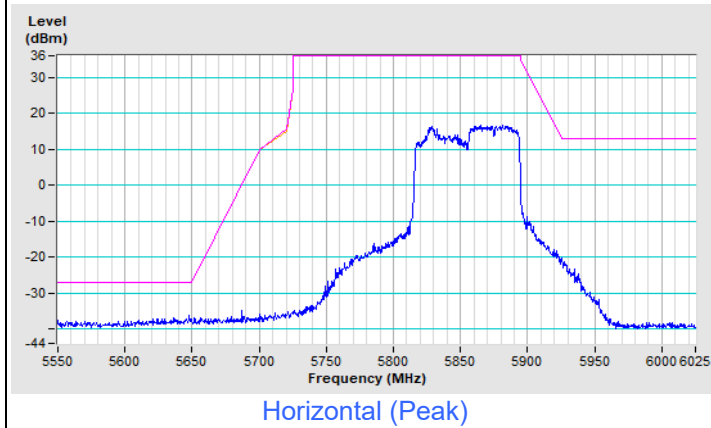
802.11ax (HE40) Channel 167



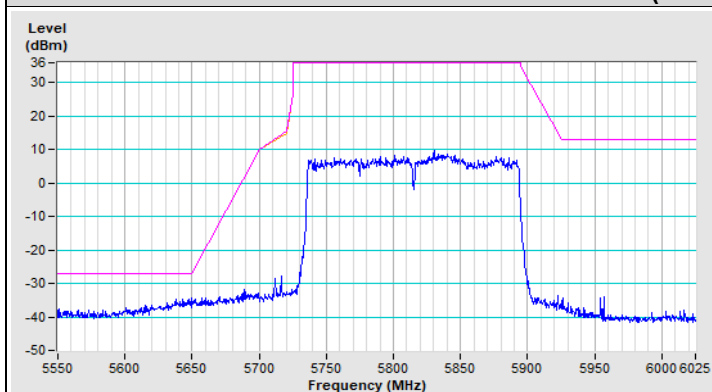
802.11ax (HE40) Channel 175



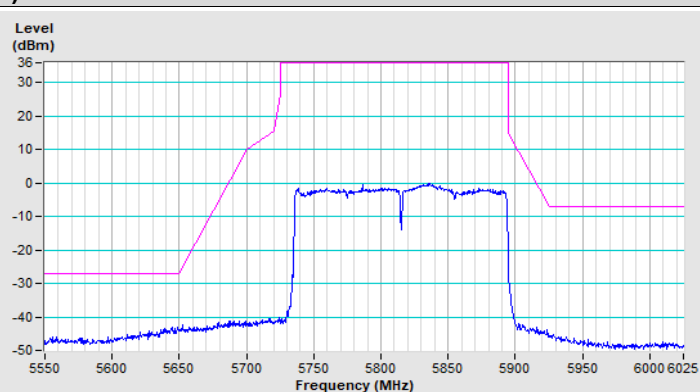
802.11ax (HE80) Channel 171



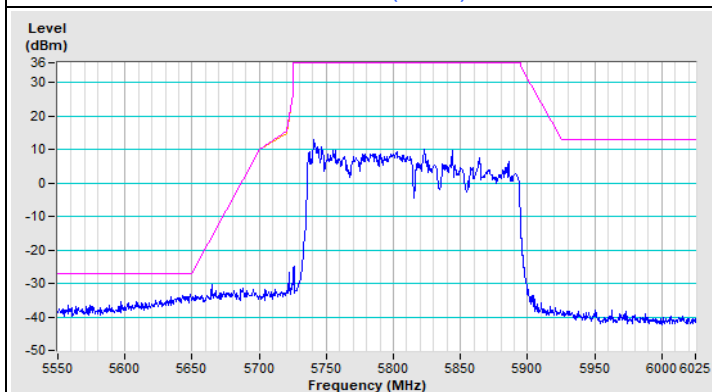
802.11ax (HE160) Channel 163



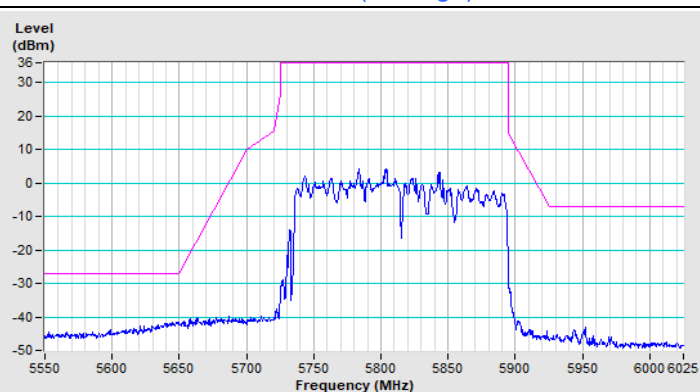
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

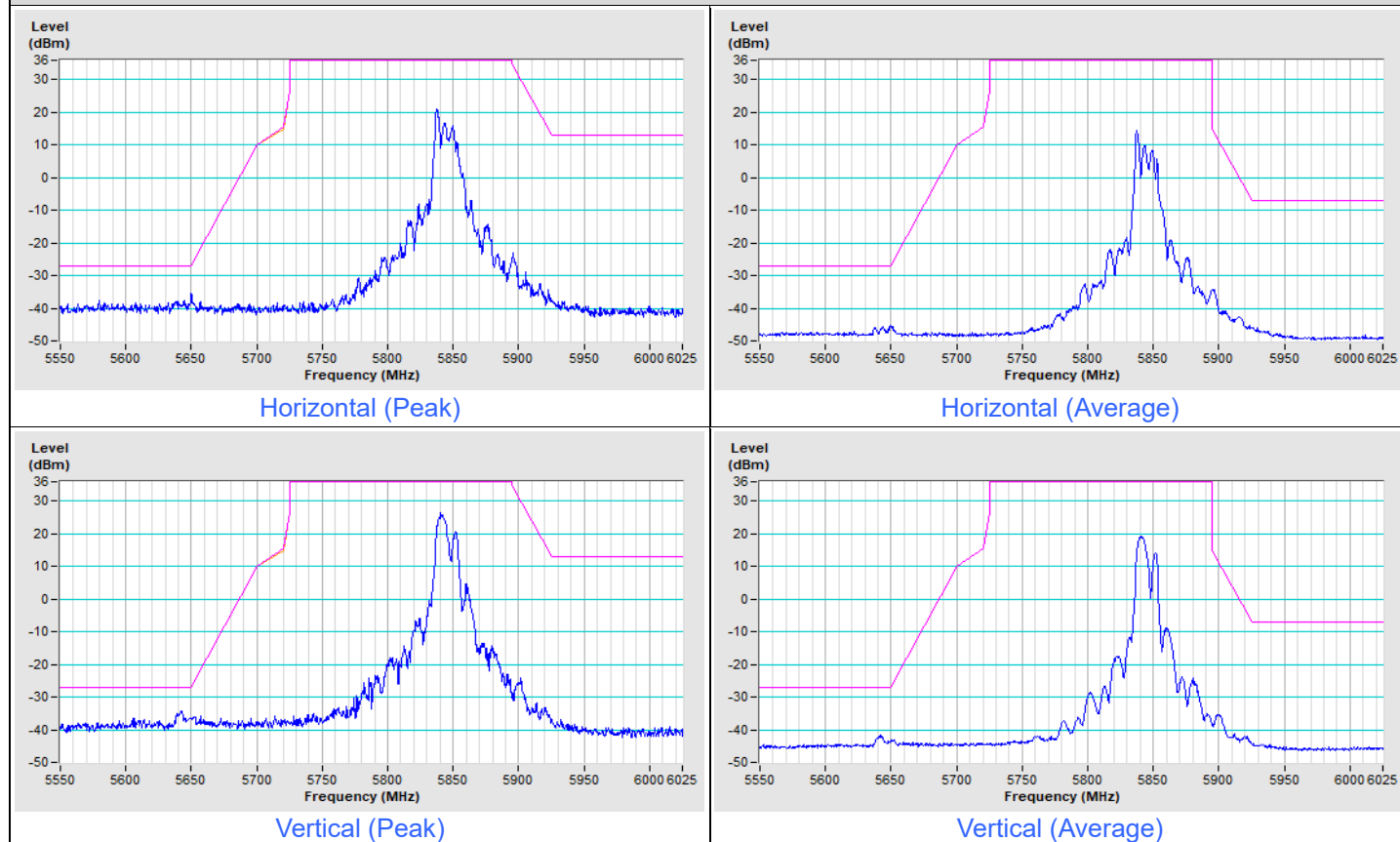


Vertical (Average)

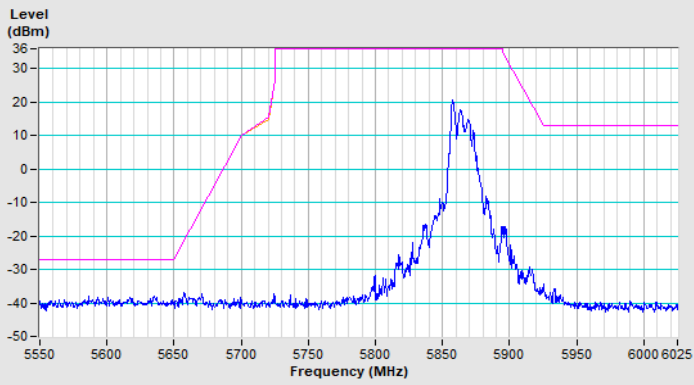
Test Mode B (CDD Mode)

Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 MHz (RMS)
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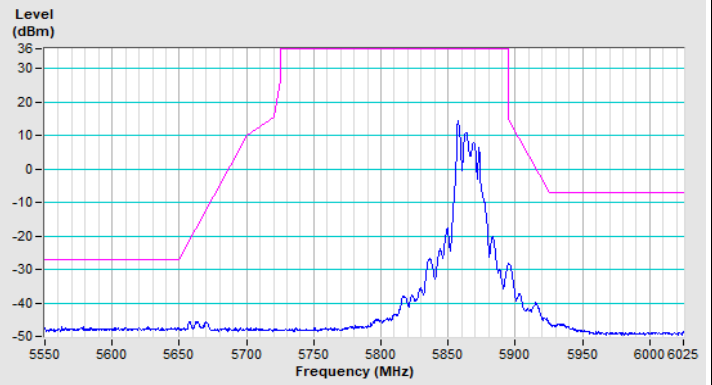
802.11a Channel 169



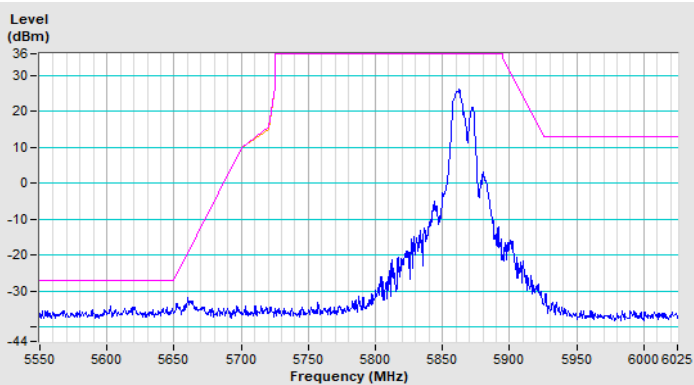
802.11a Channel 173



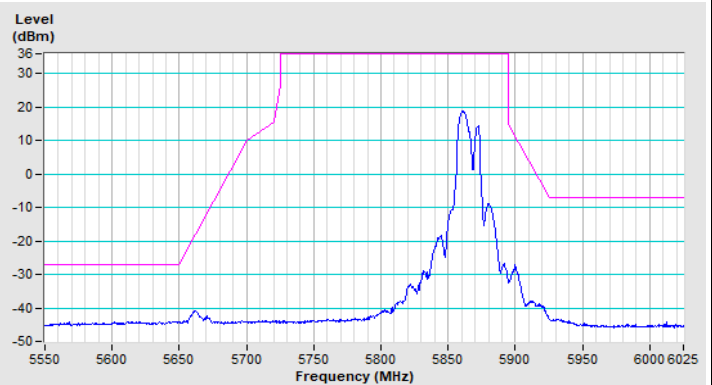
Horizontal (Peak)



Horizontal (Average)

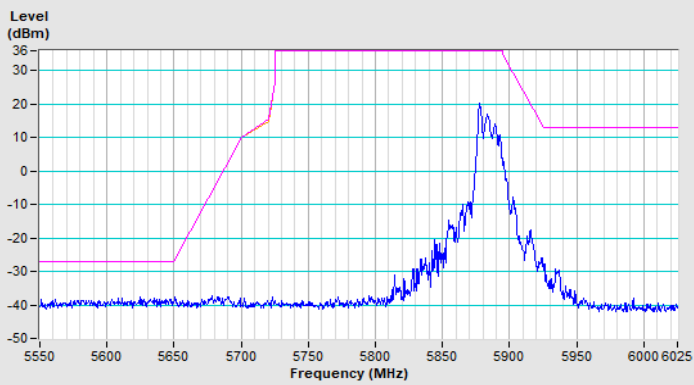


Vertical (Peak)

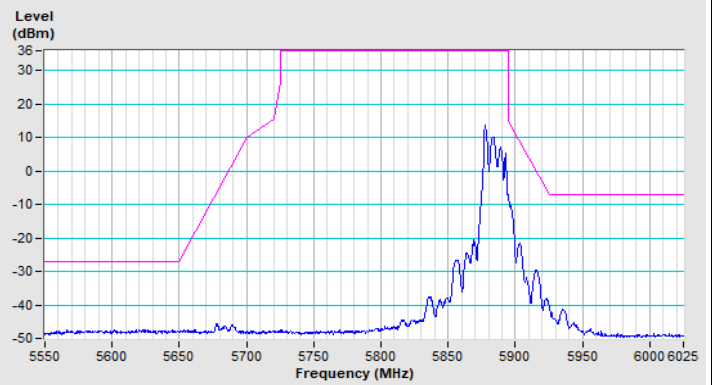


Vertical (Average)

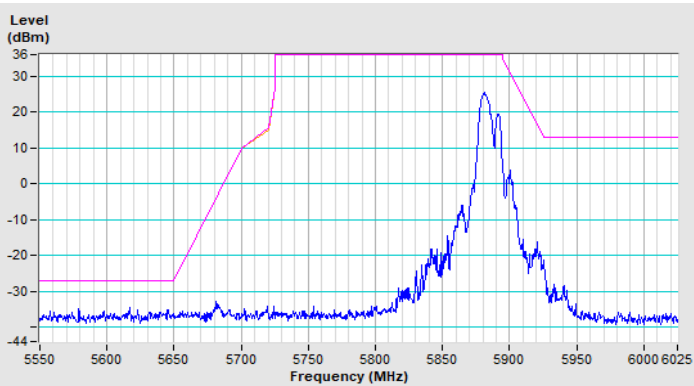
802.11a Channel 177



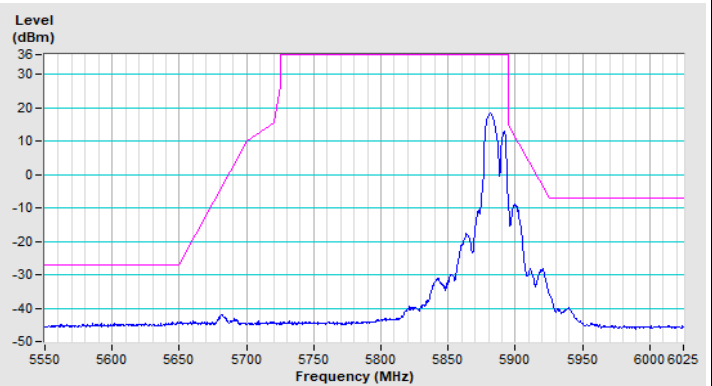
Horizontal (Peak)



Horizontal (Average)

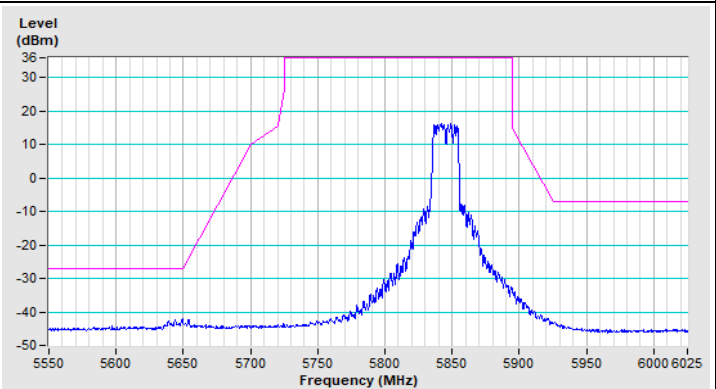
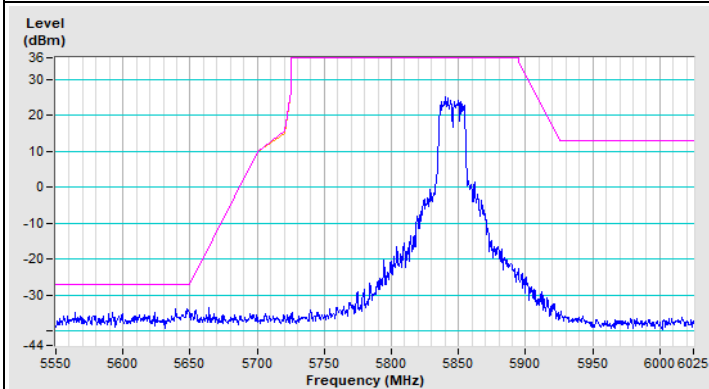
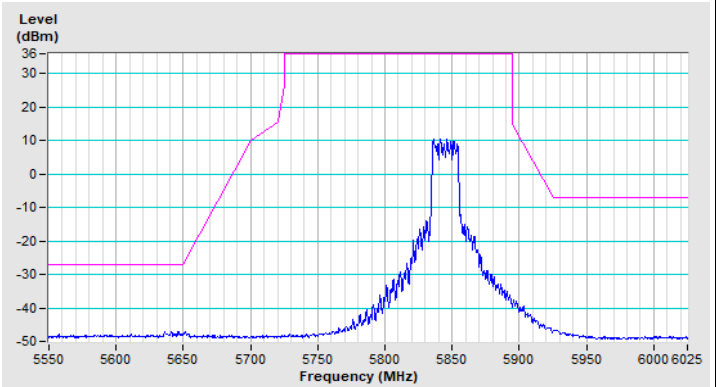
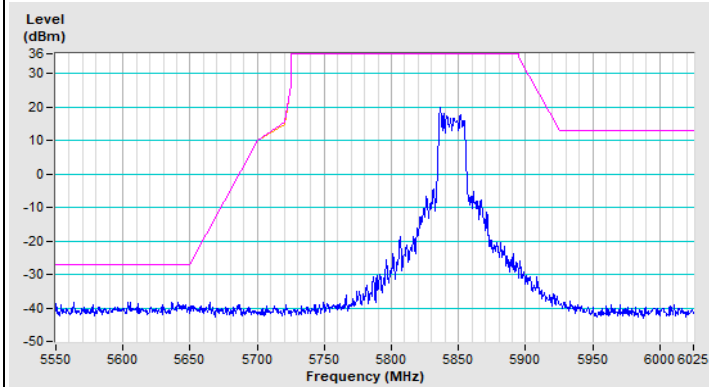


Vertical (Peak)

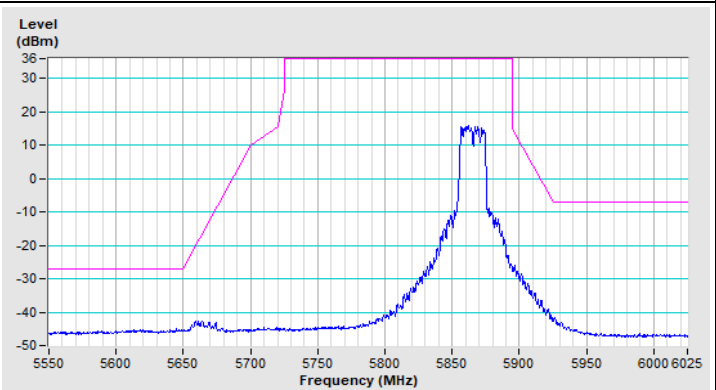
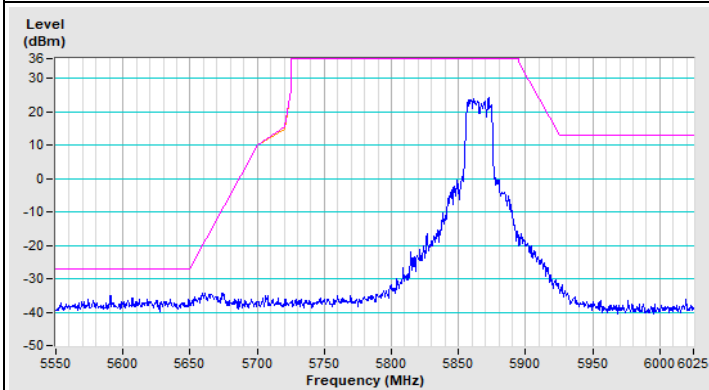
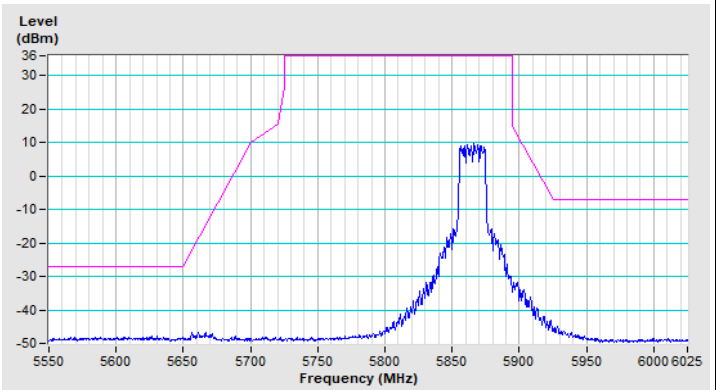
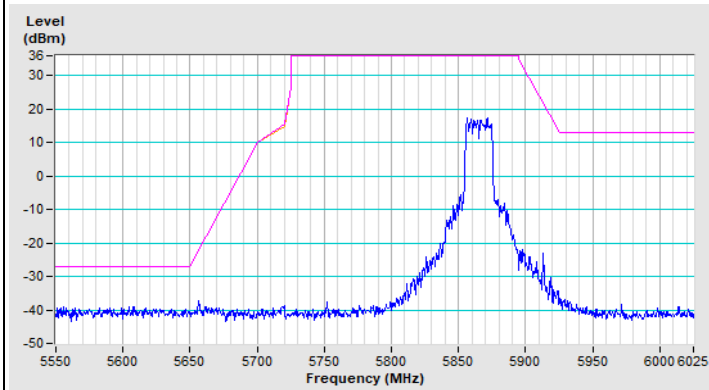


Vertical (Average)

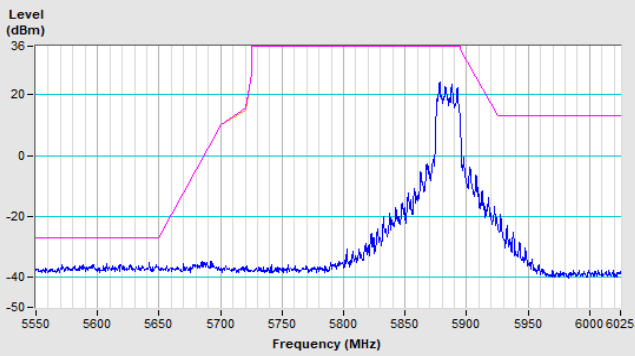
802.11ax (HE20) Channel 169



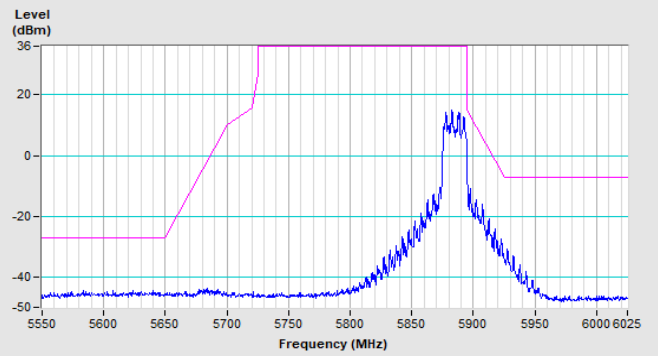
802.11ax (HE20) Channel 173



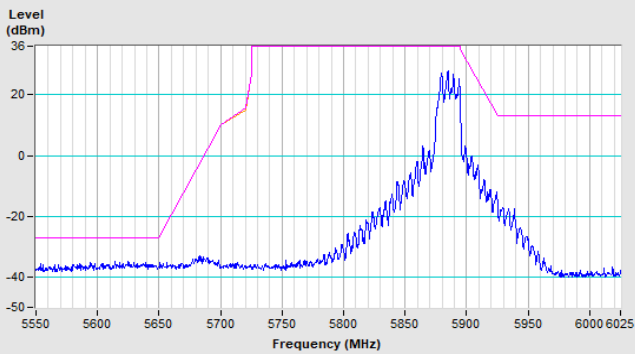
802.11ax (HE20) Channel 177



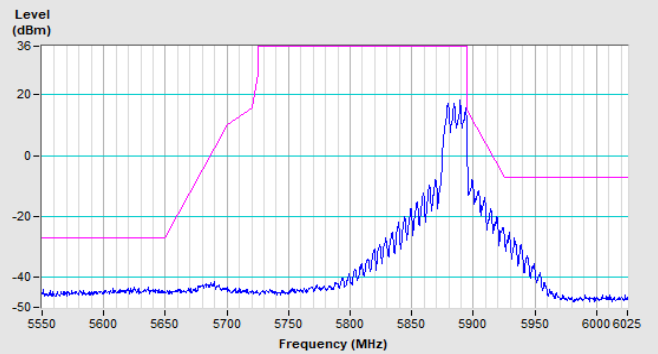
Horizontal (Peak)



Horizontal (Average)

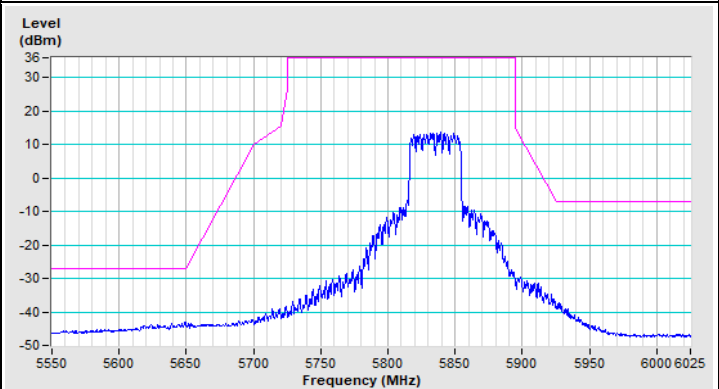
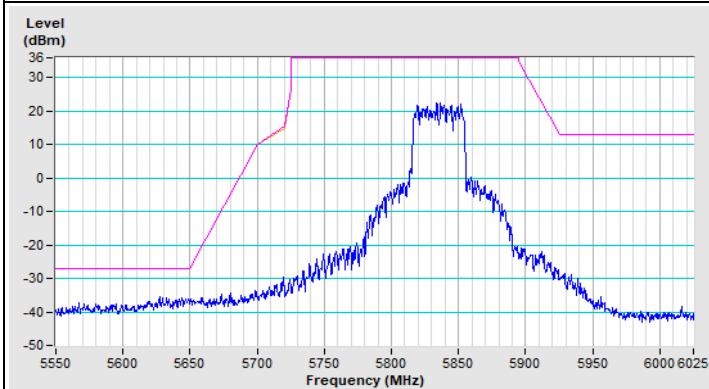
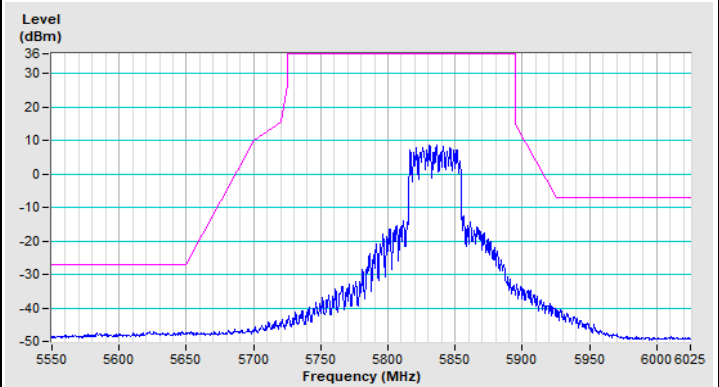
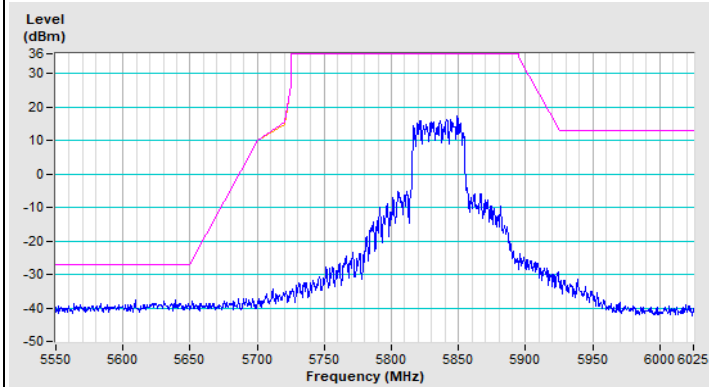


Vertical (Peak)

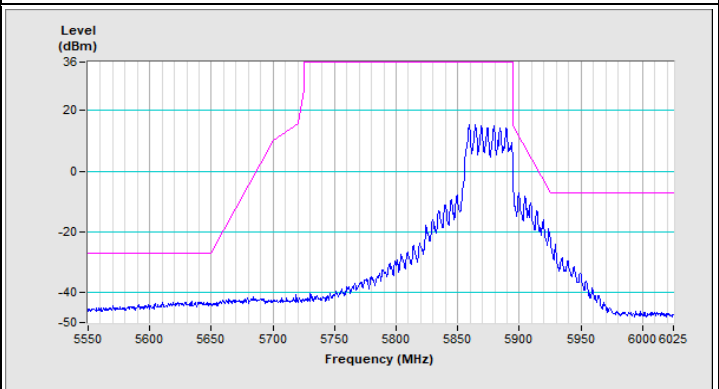
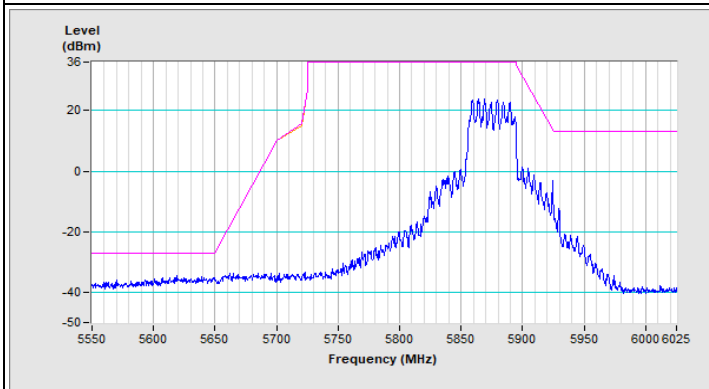
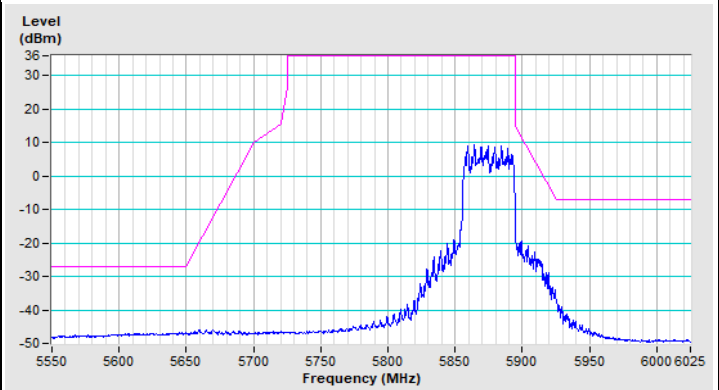
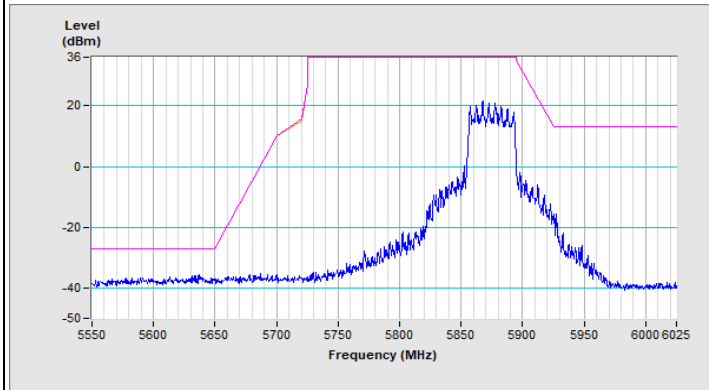


Vertical (Average)

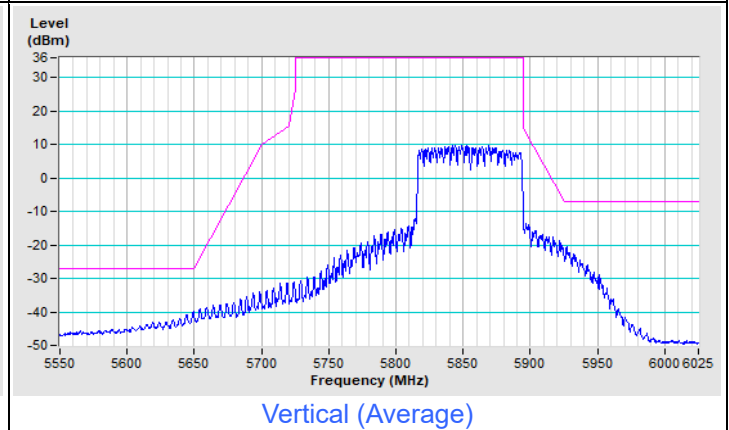
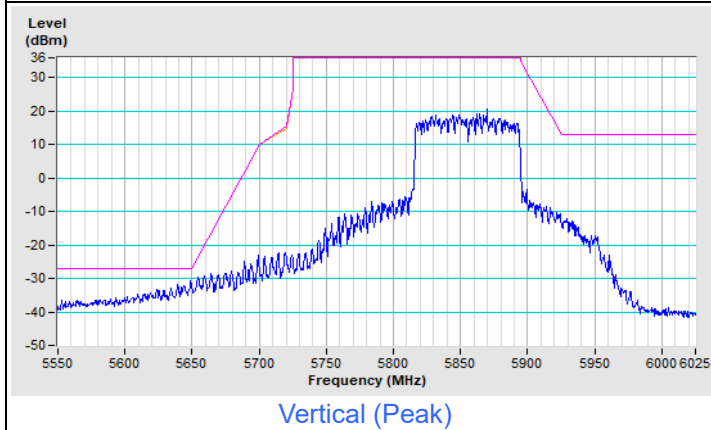
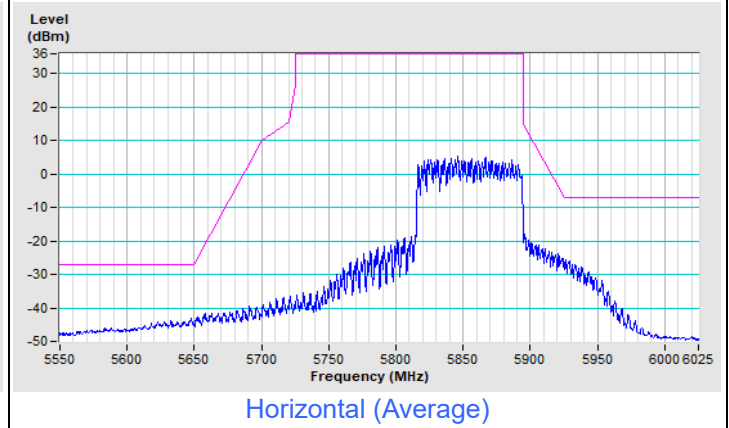
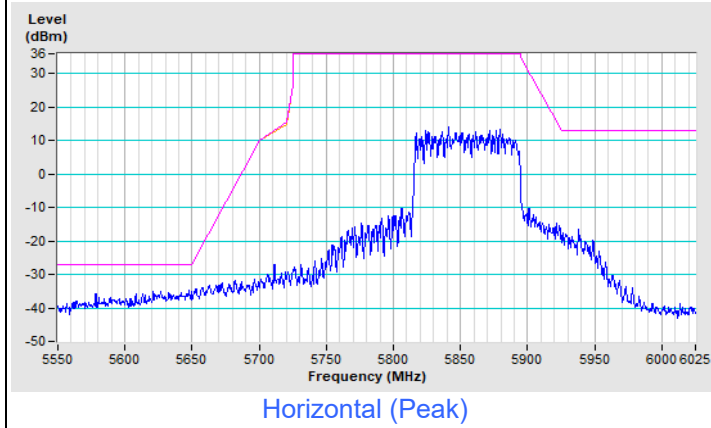
802.11ax (HE40) Channel 167



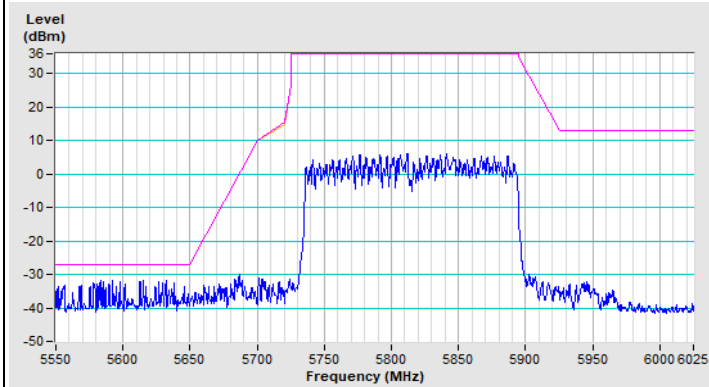
802.11ax (HE40) Channel 175



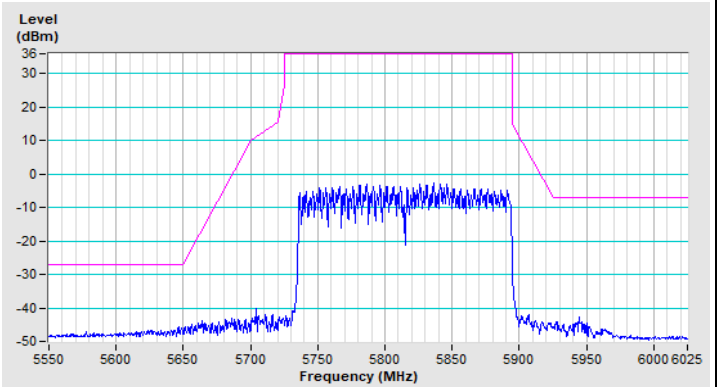
802.11ax (HE80) Channel 171



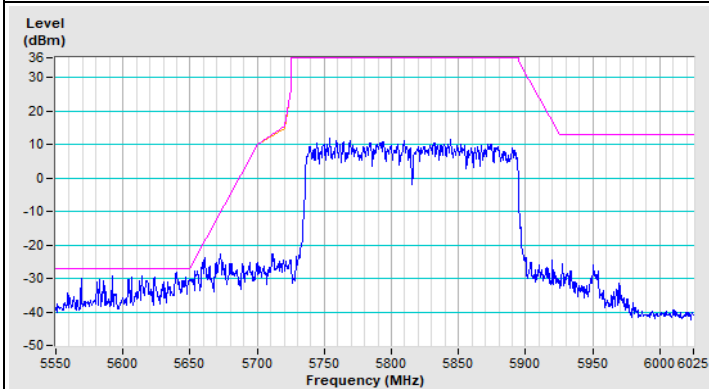
802.11ax (HE160) Channel 163



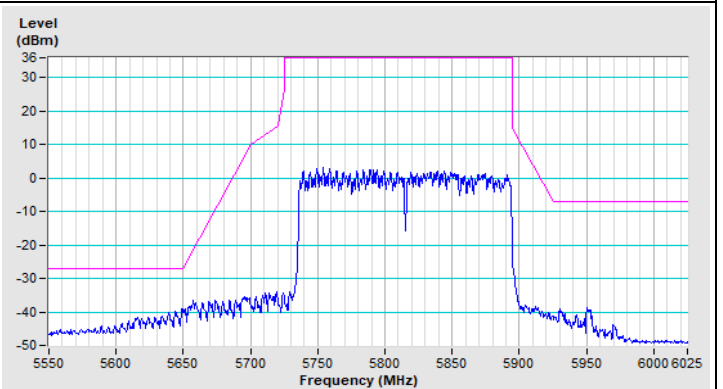
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

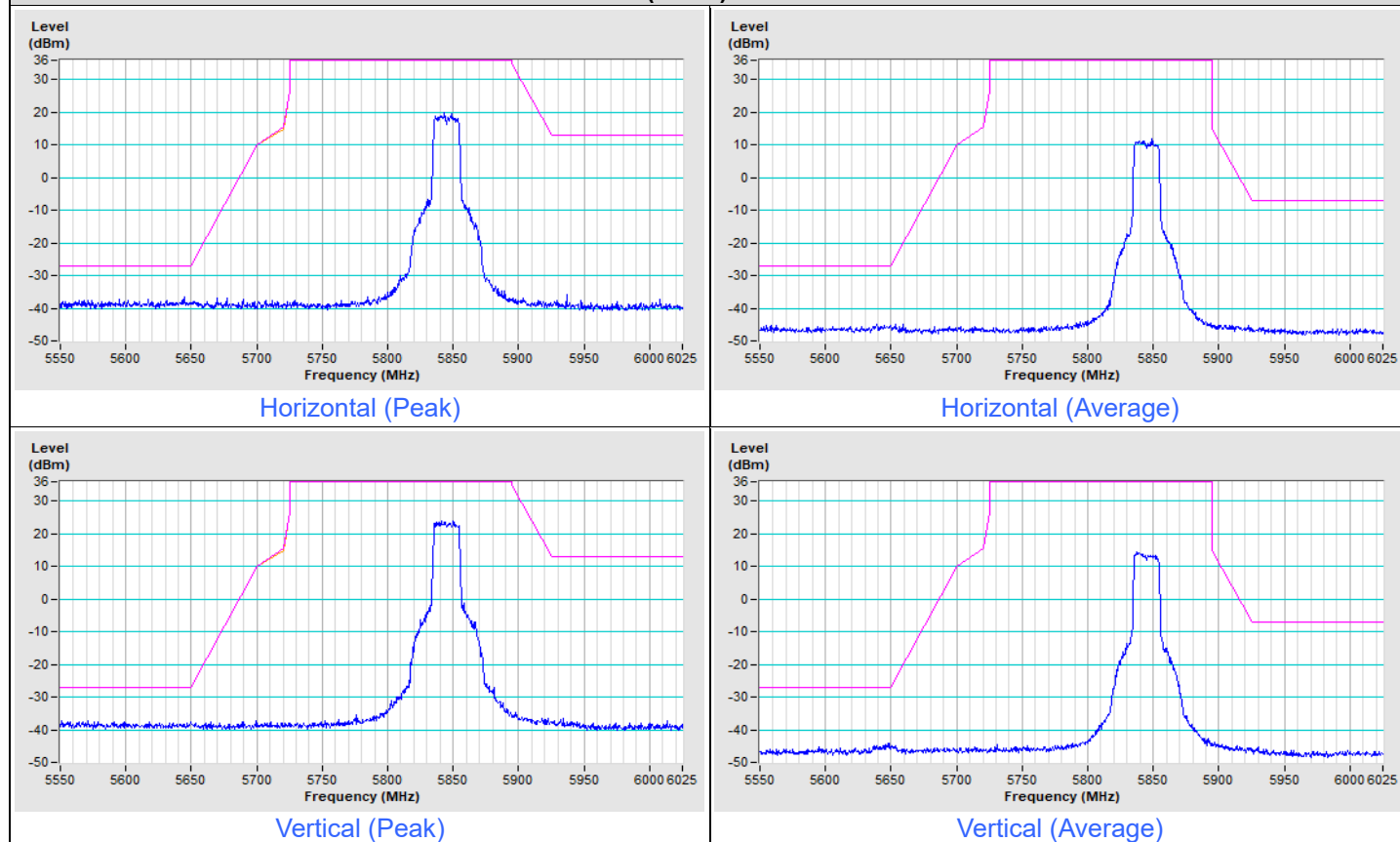


Vertical (Average)

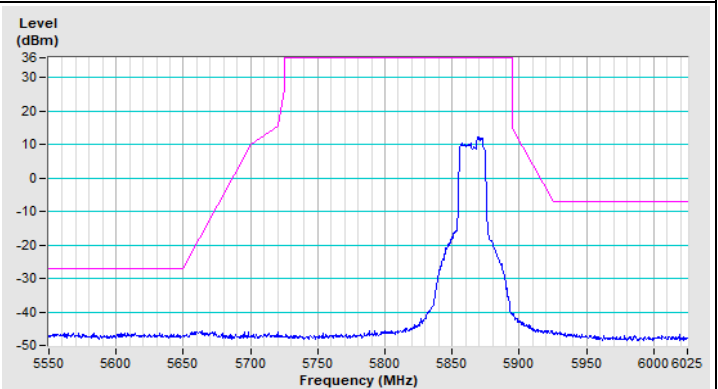
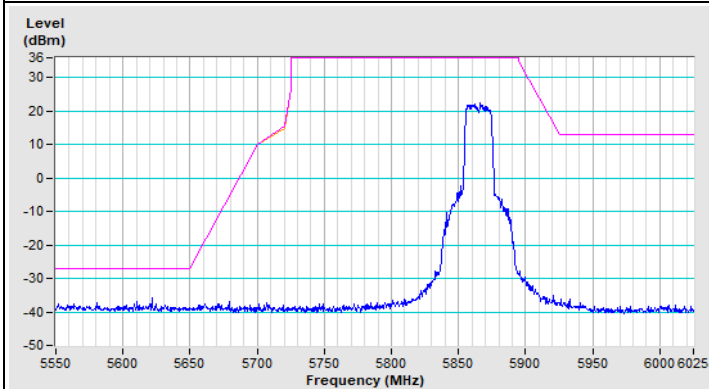
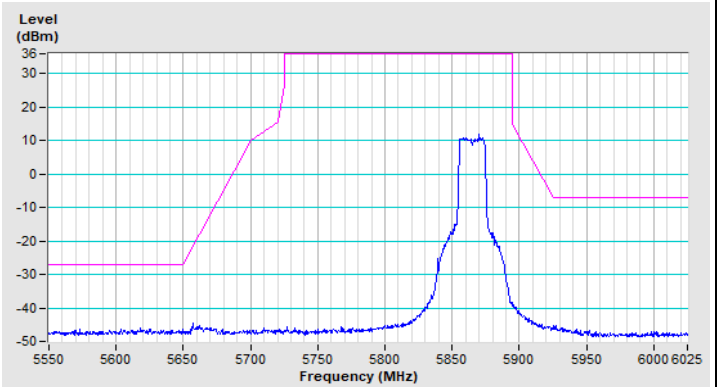
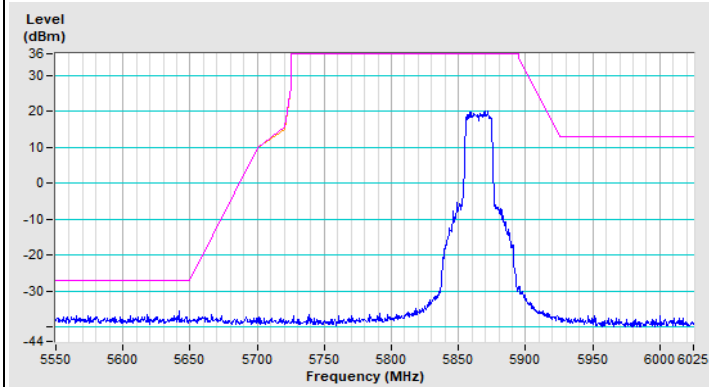
Test Mode B (Beamforming Mode)

Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 MHz (RMS)
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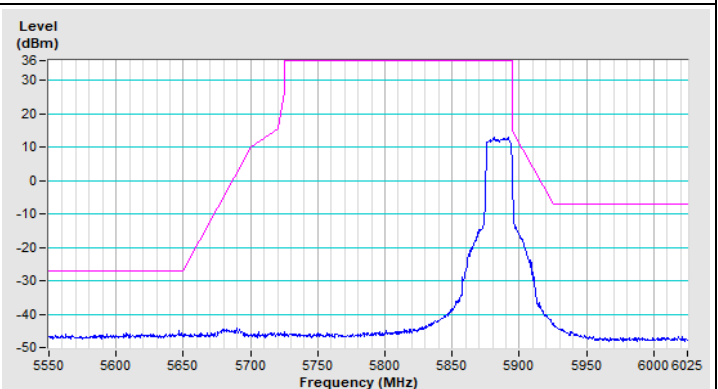
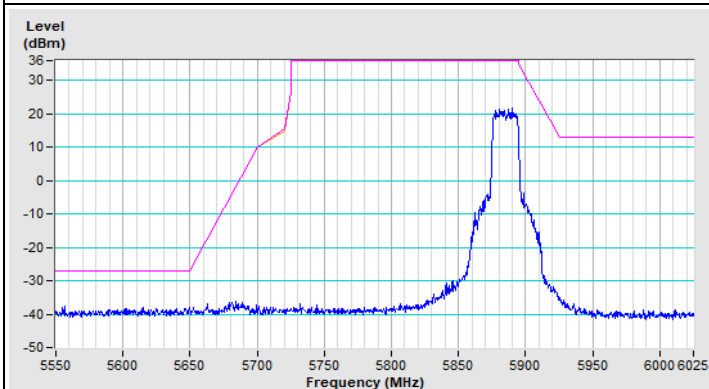
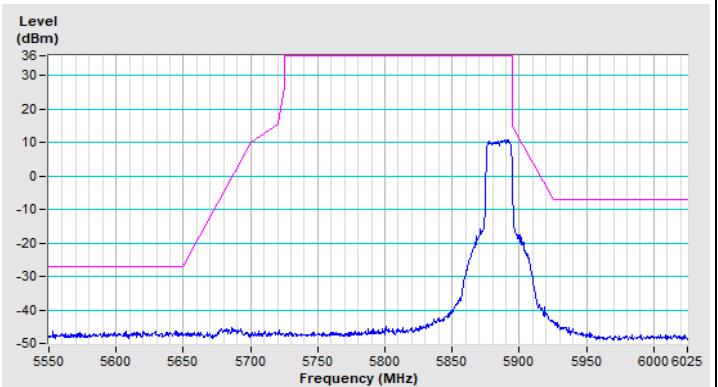
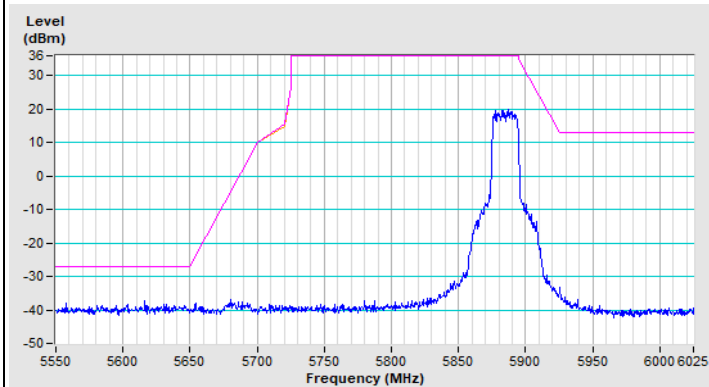
802.11ax (HE20) Channel 169



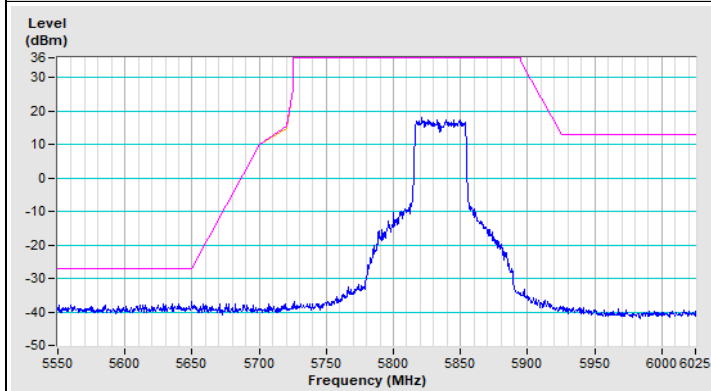
802.11ax (HE20) Channel 173



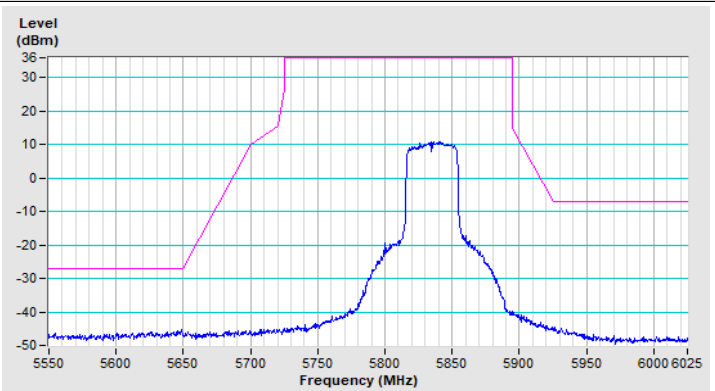
802.11ax (HE20) Channel 177



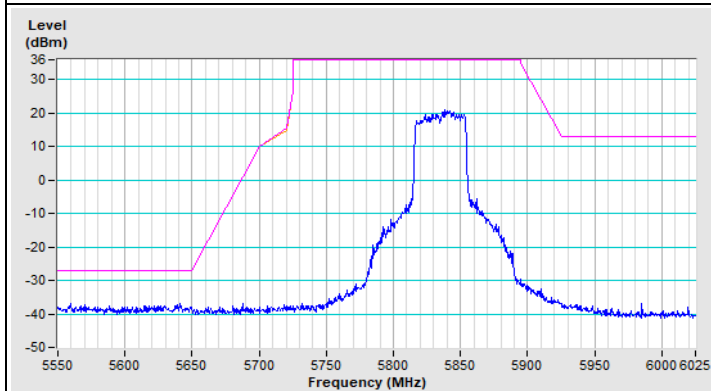
802.11ax (HE40) Channel 167



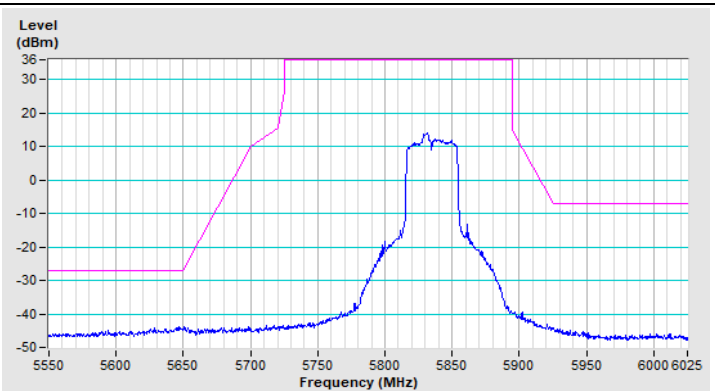
Horizontal (Peak)



Horizontal (Average)

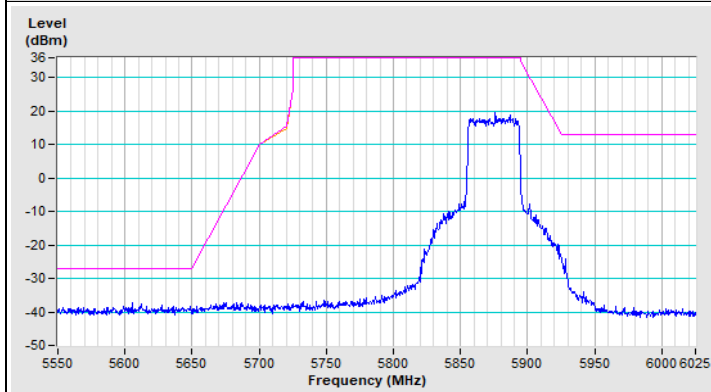


Vertical (Peak)

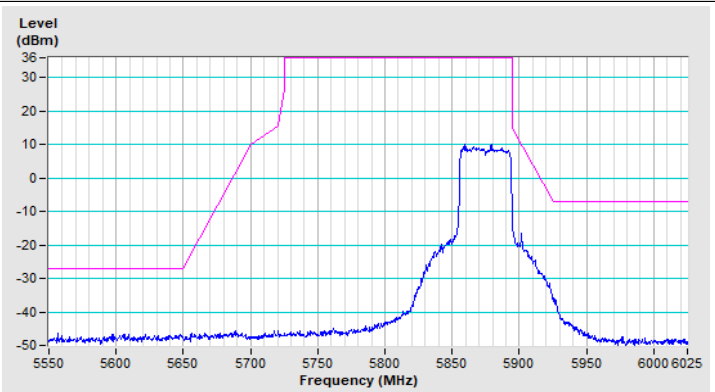


Vertical (Average)

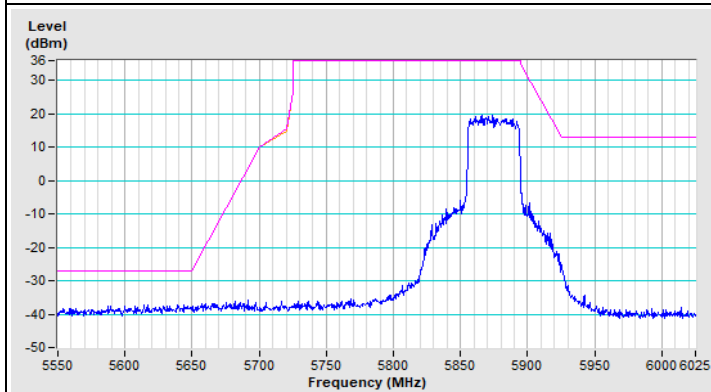
802.11ax (HE40) Channel 175



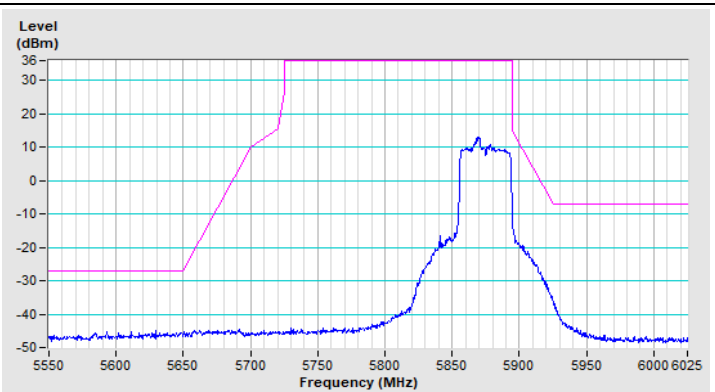
Horizontal (Peak)



Horizontal (Average)

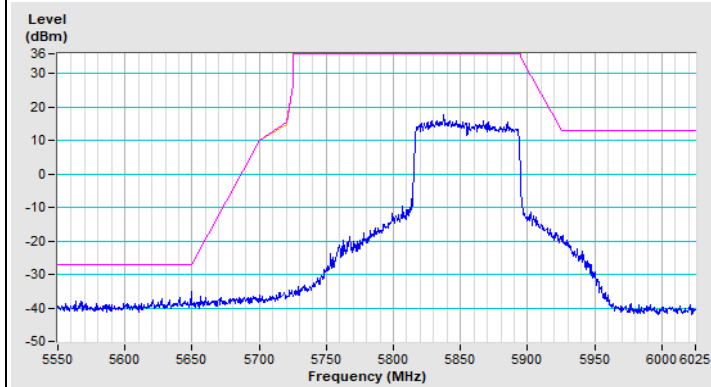


Vertical (Peak)

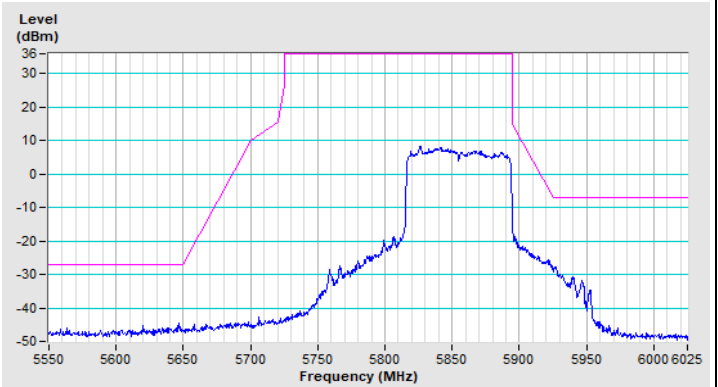


Vertical (Average)

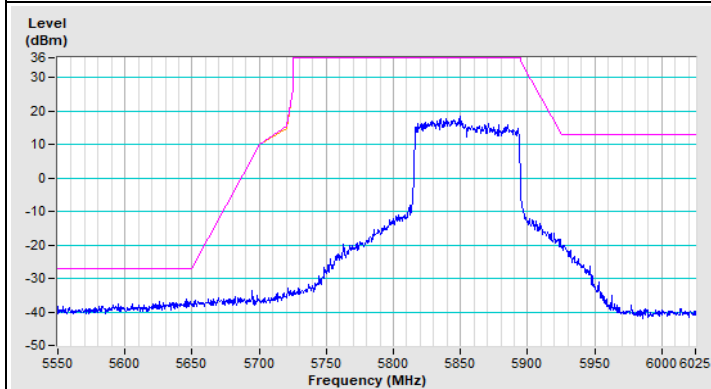
802.11ax (HE80) Channel 171



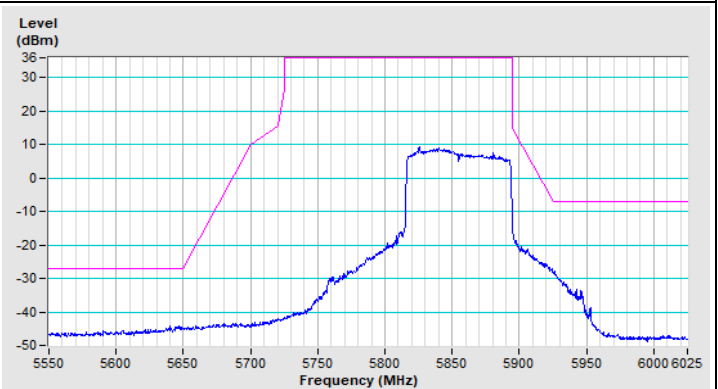
Horizontal (Peak)



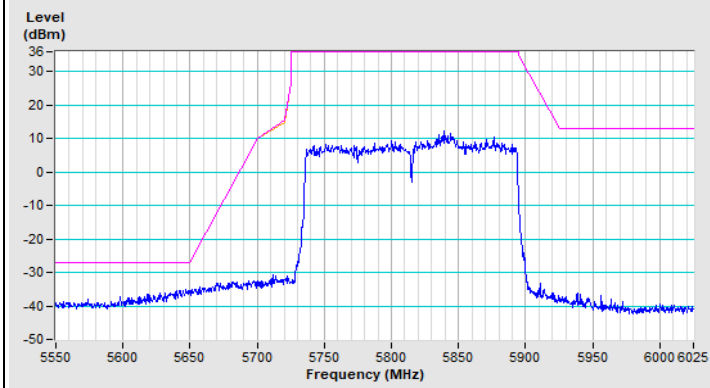
Horizontal (Average)



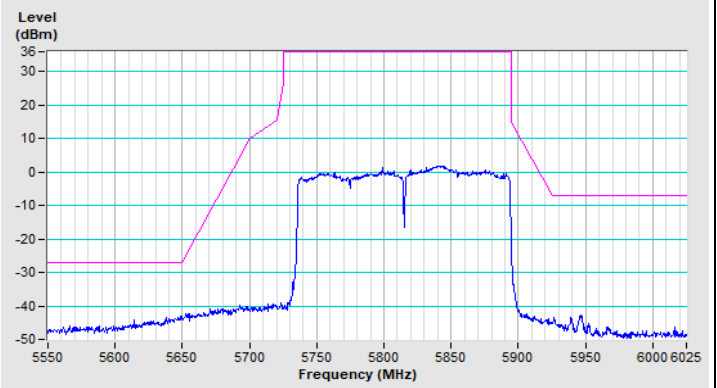
Vertical (Peak)



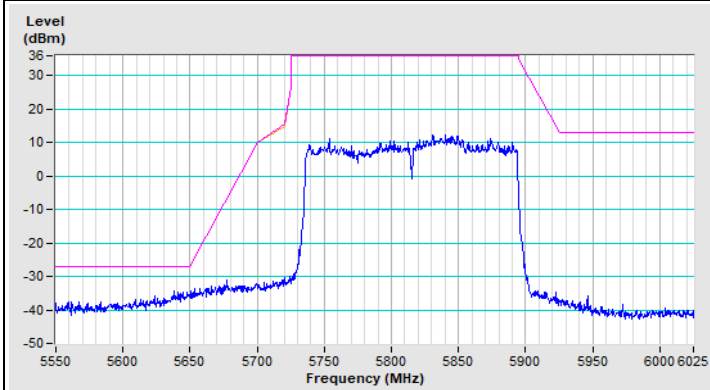
Vertical (Average)

802.11ax (HE160) Channel 163

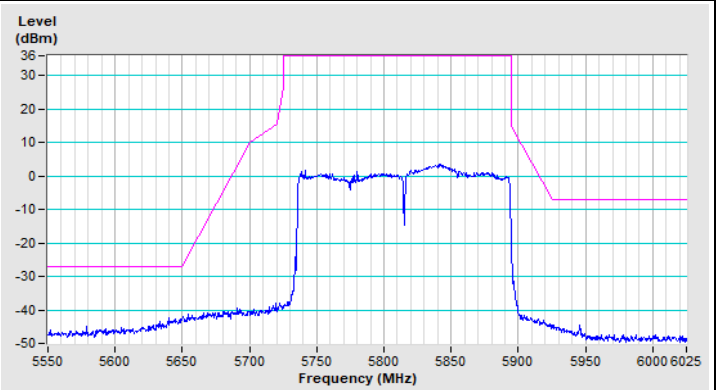
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

8 Operational Restrictions for 5.85-5.895GHz U-NII Devices

For Indoor Access Point operates in the 5.850-5.895 GHz band, is supplied power from a wired connection, has an integrated antenna, is not battery powered, and does not have a weatherized enclosure. Indoor access point devices must bear the following statement in a conspicuous location on the device and in the user's manual: FCC regulations restrict operation of this device to indoor use only.

Device is a Indoor access point, all restrictions are meet the §15.403 requirements. Please refer to the Attestation letter exhibit supplied within this application.

9 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

10 Information of the Testing Laboratories

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

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

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Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

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

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