

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBARR-WTW-P21060023U-5
FCC ID: RAS-MT7922A12L
Product: 2TX 11ax (WiFi6E) BW160+BT/BLE Combo Card
Brand: MediaTek
Model No.: MT7922A12L
Received Date: 2024/10/7
Test Date: 2024/11/13 ~ 2024/12/12
Issued Date: 2024/12/25
Applicant: MediaTek Inc.
Address: No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City 30078, Taiwan
Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory
Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
FCC Registration / 723255 / TW2022
Designation Number:

Approved by: _____, **Date:** 2024/12/25
May Chen / Manager

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Prepared by : Phoenix Huang / Specialist

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Table of Contents

Release Control Record	3
1 Certificate.....	4
2 Summary of Test Results	5
2.1 Measurement Uncertainty	5
2.2 Supplementary Information	5
3 General Information	6
3.1 General Description of EUT	6
3.2 Antenna Description of EUT	7
3.3 Channel List.....	9
3.4 Test Mode Applicability and Tested Channel Detail.....	10
3.5 Duty Cycle of Test Signal.....	11
3.6 Test Program Used and Operation Descriptions	14
3.7 Connection Diagram of EUT and Peripheral Devices	14
3.8 Configuration of Peripheral Devices and Cable Connections	15
4 Test Instruments	16
4.1 AC Power Conducted Emissions	16
4.2 Unwanted Emissions below 1 GHz	16
4.3 Unwanted Emissions above 1 GHz.....	17
5 Limits of Test Items.....	18
5.1 AC Power Conducted Emissions	18
5.2 Unwanted Emissions below 1 GHz	18
5.3 Unwanted Emissions above 1 GHz.....	18
6 Test Arrangements.....	19
6.1 AC Power Conducted Emissions	19
6.1.1 Test Setup	19
6.1.2 Test Procedure	19
6.2 Unwanted Emissions below 1 GHz	20
6.2.1 Test Setup	20
6.2.2 Test Procedure	21
6.3 Unwanted Emissions above 1 GHz.....	22
6.3.1 Test Setup	22
6.3.2 Test Procedure	22
7 Test Results of Test Item	23
7.1 AC Power Conducted Emissions	23
7.2 Unwanted Emissions below 1 GHz	25
7.3 Unwanted Emissions above 1 GHz.....	27
8 Pictures of Test Arrangements	79
9 Information of the Testing Laboratories	80

Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P21060023U-5	Original release.	2024/12/25

1 Certificate

Product: 2TX 11ax (WiFi6E) BW160+BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7922A12L

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: 2024/11/13 ~ 2024/12/12

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

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	N/A	Refer to Note 1 below
15.407(a)(3)	Power Spectral Density	N/A	Refer to Note 1 below
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -11.79 dB at 26.79297 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -2.5 dB at 240.20 MHz
15.407(b)(5) 15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -5.0 dB at 5650.00 MHz
15.407(e)	6 dB Bandwidth	N/A	Refer to Note 1 below
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF), IPEX-4L and ipex not a standard connector.

Note:

1. AC Power Conducted Emissions and Unwanted Emissions were performed for this addendum. The others testing data refer to original test report.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.5 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	2TX 11ax (WiFi6E) BW160+BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7922A12L
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2401.9 Mbps
Operating Frequency	5.815 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
Resource Unit (RU)	Single RU: 26-tone, 52-tone, 106-tone, 242-tone, 484-tone, 996-tone, 2 * 996-tone
Output Power	EIRP: 490.946 mW (26.91 dBm)
EUT Category	Client device

Note:

1. This report is prepared for FCC class II permissive change. The difference compared with the Report No.: RFBARR-WTW-P21060023F-7 as the following:
 - ◆ Add Monopole antennas (Refer to section 3.2).
2. According to above conditions and there is no increase in authorized power level, only AC Power Conducted Emissions and Unwanted Emissions test need to be performed. And all data are verified to meet the requirements.
3. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.
4. Simultaneously transmission combination.

Combination.	Technology	
1	WLAN (5 GHz)	Bluetooth
2	WLAN (6 GHz)	Bluetooth
3	WLAN (5.9 GHz)	Bluetooth

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

5. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.
6. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Original								
Antenna Set	RF Chain NO.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0	PSA	RFMTA340718EMLB302	3.18	2.4 ~ 2.4835	PIFA	ipex(MHF)	200
				4.92	5.15 ~ 5.895			
	Chain1	PSA	RFMTA340718EMLB302	3.18	2.4 ~ 2.4835	PIFA	ipex(MHF)	200
				4.92	5.15 ~ 5.895			
2	Chain0	PSA	RFMTA311020EMMB301	1.71	2.4 ~ 2.4835	PIFA	ipex(MHF)	200
				4.82	5.15 ~ 5.895			
				4.76	5.925 ~ 6.425			
				4.29	6.425 ~ 6.525			
				4.61	6.525 ~ 6.875			
				4.09	6.875 ~ 7.125			
	Chain1	PSA	RFMTA311020EMMB301	1.71	2.4 ~ 2.4835	PIFA	ipex(MHF)	200
				4.82	5.15 ~ 5.895			
				4.76	5.925 ~ 6.425			
				4.29	6.425 ~ 6.525			
				4.61	6.525 ~ 6.875			
				4.09	6.875 ~ 7.125			
3	Chain0	MSI	WA-P-LE-02-045 (Main)	2.24	2.4 ~ 2.4835	PIFA	IPEX-4L	190
				2.68	5.15 ~ 5.895			
				3.01	5.925 ~ 6.425			
				-1.23	6.425 ~ 6.525			
				-1.96	6.525 ~ 6.875			
				-3.68	6.875 ~ 7.125			
	Chain1	MSI	WA-P-LE-02-046 (Aux)	-2.96	2.4 ~ 2.4835	PIFA	IPEX-4L	325
				1.16	5.15 ~ 5.895			
				0.99	5.925 ~ 6.425			
				-2.31	6.425 ~ 6.525			
				-2.54	6.525 ~ 6.875			
				-7.44	6.875 ~ 7.125			
				-13.92	5.925 ~ 6.425			
				-13.91	6.425 ~ 6.525			
4	Chain0	PSA	RFMTA421230IMMB701	-13.91	6.525 ~ 6.875	PIFA	ipex	300
				-14.46	6.875 ~ 7.125			
	Chain1	PSA	RFMTA421230IMMB701	-13.92	5.925 ~ 6.425	PIFA	ipex	300
				-13.91	6.425 ~ 6.525			
				-13.91	6.525 ~ 6.875			
				-14.46	6.875 ~ 7.125			
5	Chain0	PSA	RFPCA460632IMMB701	-13.2	5.925~6.425	PIFA	ipex	300
				-13.67	6.425~6.525			
				-13.67	6.525~6.875			
				-13.09	6.875~7.125			
	Chain1	PSA	RFPCA460632IMMB701	-13.2	5.925~6.425	PIFA	ipex	300
				-13.67	6.425~6.525			
				-13.67	6.525~6.875			
				-13.09	6.875~7.125			

Newly

Antenna Set	RF Chain NO.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
6	Chain0	HongBo	260-25105	3.1	2.4 ~ 2.4835	Monopole	ipex(MHF)	486
				3.33	5.15 ~ 5.895			
				4.23	5.925 ~ 6.425			
				4.22	6.425 ~ 6.525			
				4.01	6.525 ~ 6.875			
				3.07	6.875 ~ 7.125			
	Chain1	HongBo	260-25105	3.1	2.4 ~ 2.4835	Monopole	ipex(MHF)	486
				3.33	5.15 ~ 5.895			
				4.23	5.925 ~ 6.425			
				4.22	6.425 ~ 6.525			
				4.01	6.525 ~ 6.875			
				3.07	6.875 ~ 7.125			
7	Chain0	HongBo	260-25106	4.91	5.15 ~ 5.895	Monopole	ipex(MHF)	350
				4.73	5.925 ~ 6.425			
				4.29	6.425 ~ 6.525			
				4.58	6.525 ~ 6.875			
				4.09	6.875 ~ 7.125			
	Chain1	HongBo	260-25106	4.91	5.15 ~ 5.895	Monopole	ipex(MHF)	350
				4.73	5.925 ~ 6.425			
				4.29	6.425 ~ 6.525			
				4.58	6.525 ~ 6.875			
				4.09	6.875 ~ 7.125			

Note: Above Monopole antennas, Antenna Set 7 was selected for the final test of WLAN (5 GHz).

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

2. The EUT incorporates a MIMO function:

5 GHz Band				
Modulation Mode	TX & RX Configuration		CDD mode	Beamforming
802.11a	2TX	2RX	Support	Not Support
802.11n (HT20)	2TX	2RX	Support	Not Support
802.11n (HT40)	2TX	2RX	Support	Not Support
802.11ac (VHT20)	2TX	2RX	Support	Not Support
802.11ac (VHT40)	2TX	2RX	Support	Not Support
802.11ac (VHT80)	2TX	2RX	Support	Not Support
802.11ac (VHT160)	2TX	2RX	Support	Not Support
802.11ax (HE20)	2TX	2RX	Support	Not Support
802.11ax (HE40)	2TX	2RX	Support	Not Support
802.11ax (HE80)	2TX	2RX	Support	Not Support
802.11ax (HE160)	2TX	2RX	Support	Not Support
802.11ax (RU26/52/106/242/484/996/2*996)	2TX	2RX	Support	Not Support

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

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:	1. EUT's Monopole antenna can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). 3. The worst-case Partial RU modes across all supported bandwidth modes has been determined via pre-scan.
Worst Case:	1. EUT's Monopole antenna worst condition: Y-axis

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

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
AC Power Conducted Emissions	802.11ax (HE80)	171	BPSK	MCS0	NA
Unwanted Emissions below 1 GHz	802.11ax (HE80)	171	BPSK	MCS0	NA
Unwanted Emissions above 1 GHz	802.11a	169, 173, 177	BPSK	6Mb/s	NA
	802.11ax (HE20)	169, 173, 177	BPSK	MCS0	NA
	802.11ax (HE40)	167, 175	BPSK	MCS0	NA
	802.11ax (HE80)	171	BPSK	MCS0	NA
	802.11ax (HE160)	163	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	169, 173, 177	BPSK	MCS0	0, 0, 8
	802.11ax (HE20) 52-tone RU	169, 173, 177	BPSK	MCS0	37, 37, 40
	802.11ax (HE20) 106-tone RU	169, 173, 177	BPSK	MCS0	53, 53, 54

3.5 Duty Cycle of Test Signal

802.11a:

Duty cycle = 2.565 ms / 2.592 ms x 100% = 99.0%

802.11ax (HE20):

Duty cycle = 2.86 ms / 3.388 ms x 100% = 84.4%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.74$ dB

802.11ax (HE40):

Duty cycle = 3.789 ms / 4.398 ms x 100% = 86.2%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.65$ dB

802.11ax (HE80):

Duty cycle = 1.844 ms / 2.443 ms x 100% = 75.5%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 1.22$ dB

802.11ax (HE160):

Duty cycle = 0.956 ms / 1.555 ms x 100% = 61.5%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.11$ dB

802.11ax (HE20) 26-tone RU:

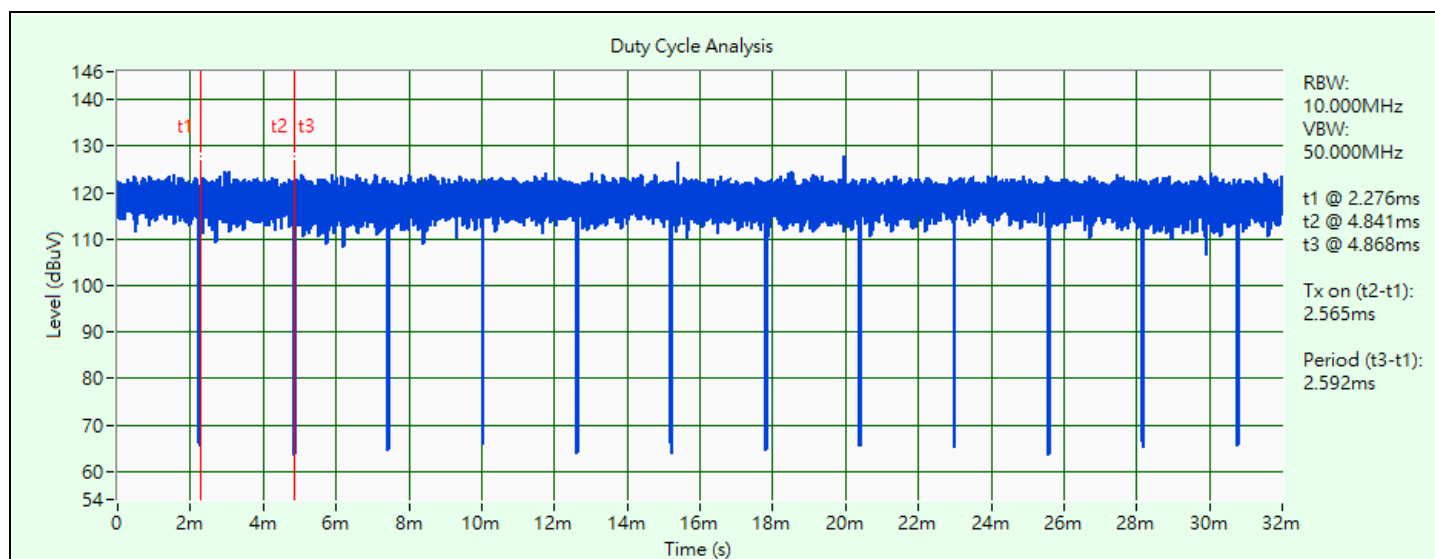
Duty cycle = 0.58 ms / 0.883 ms x 100% = 65.7%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 1.83$ dB

802.11ax (HE20) 52-tone RU:

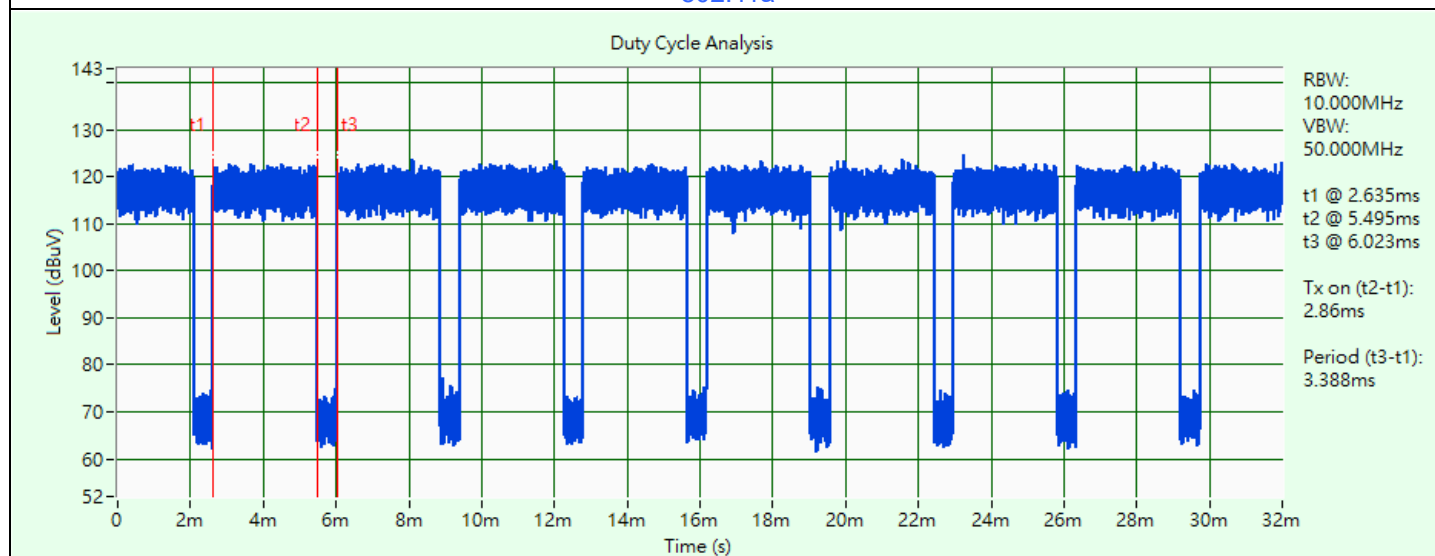
Duty cycle = 0.497 ms / 0.791 ms x 100% = 62.8%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.02$ dB

802.11ax (HE20) 106-tone RU:

Duty cycle = 0.436 ms / 0.731 ms x 100% = 59.6%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.24$ dB

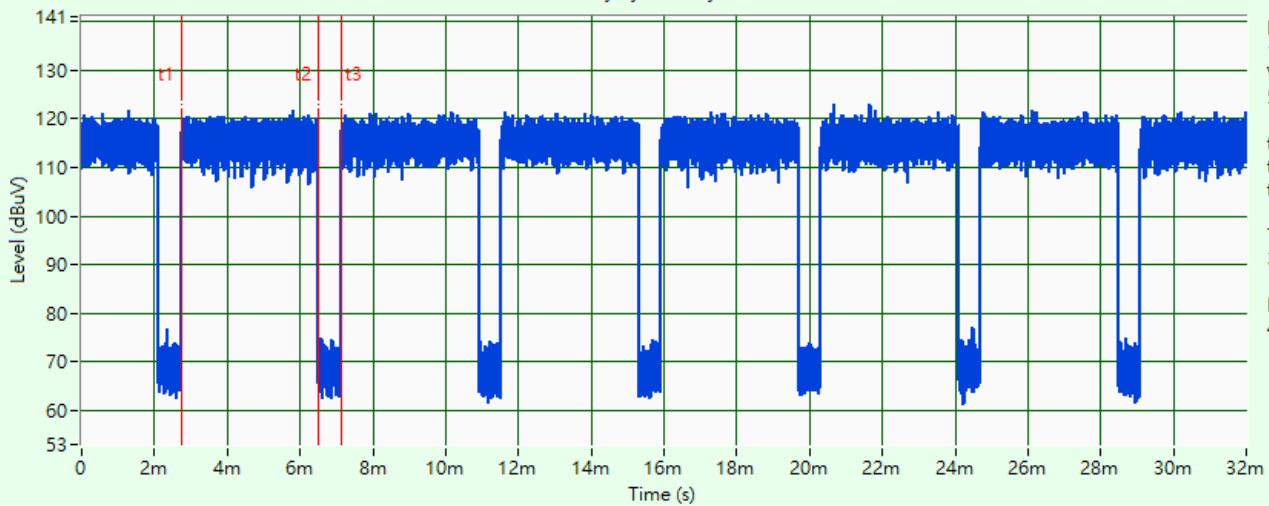


802.11a



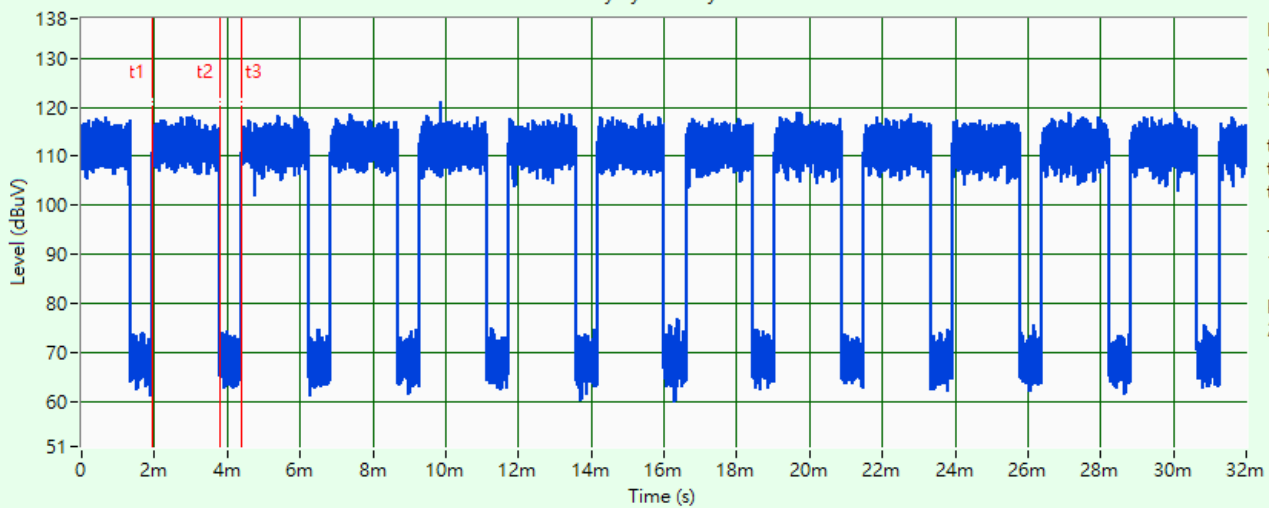
802.11ax (HE20)

Duty Cycle Analysis



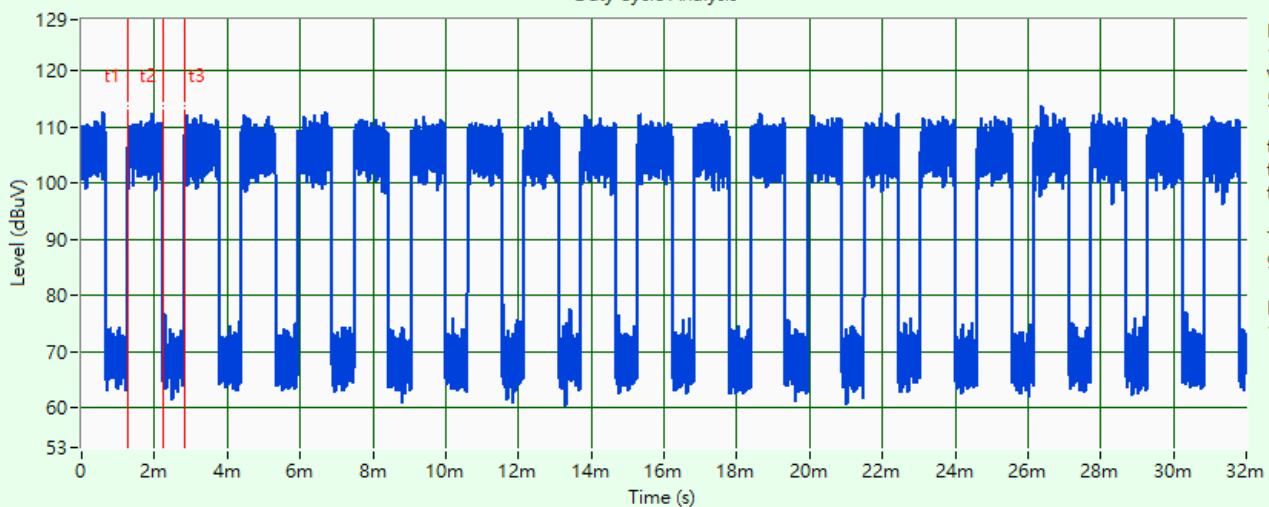
802.11ax (HE40)

Duty Cycle Analysis



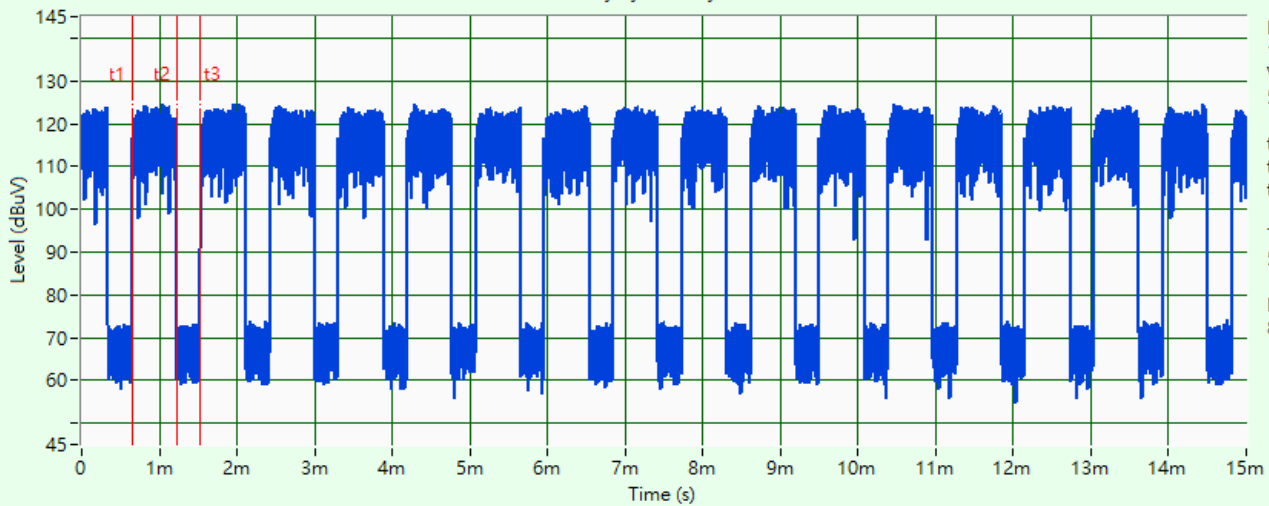
802.11ax (HE80)

Duty Cycle Analysis



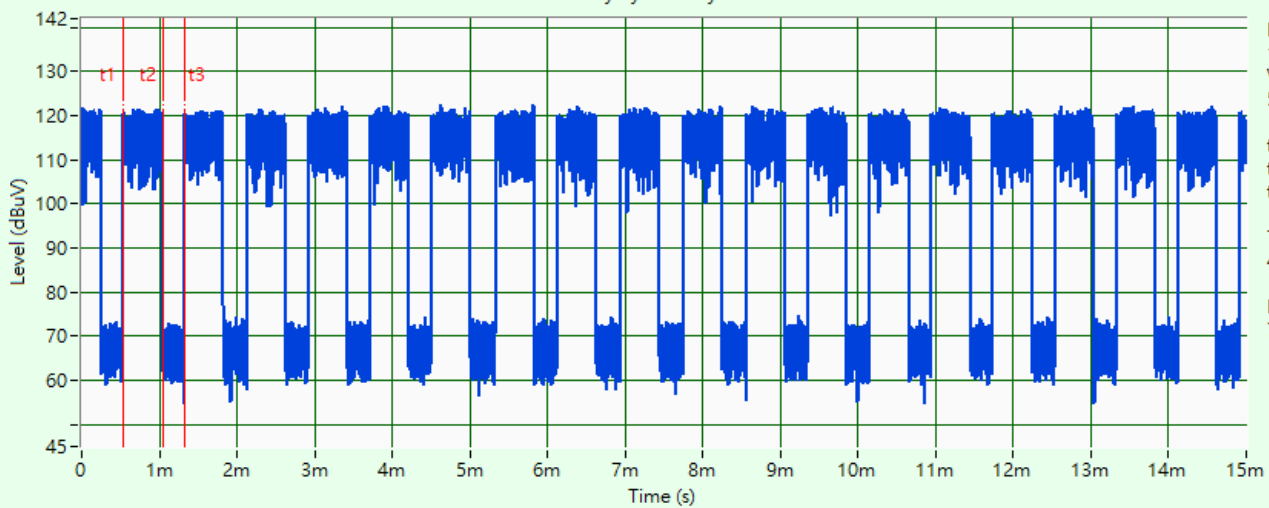
802.11ax (HE160)

Duty Cycle Analysis



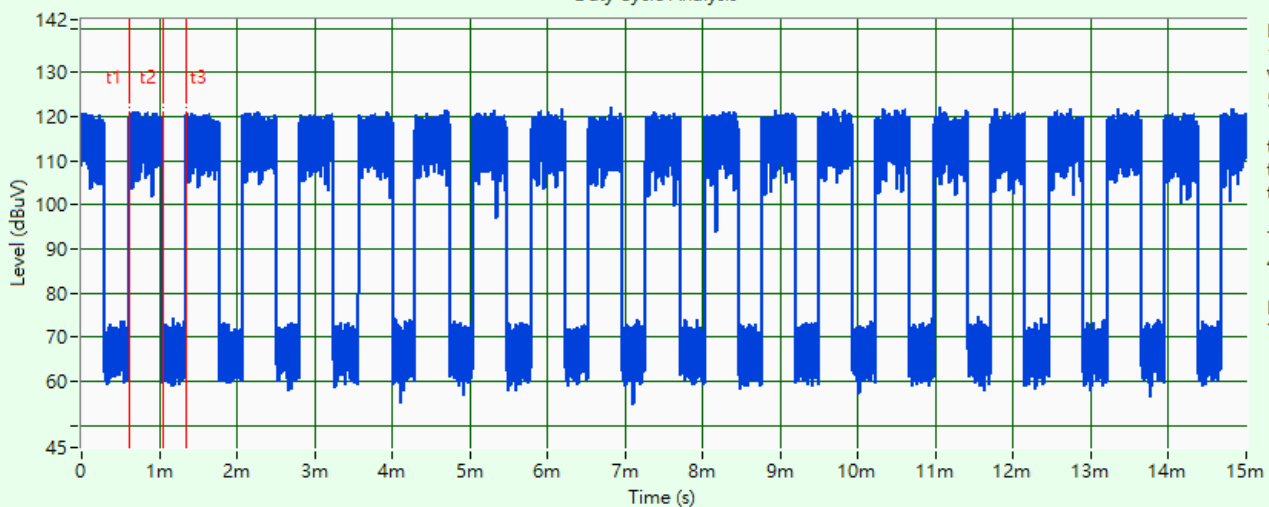
802.11ax (HE20) 26-tone RU

Duty Cycle Analysis



802.11ax (HE20) 52-tone RU

Duty Cycle Analysis



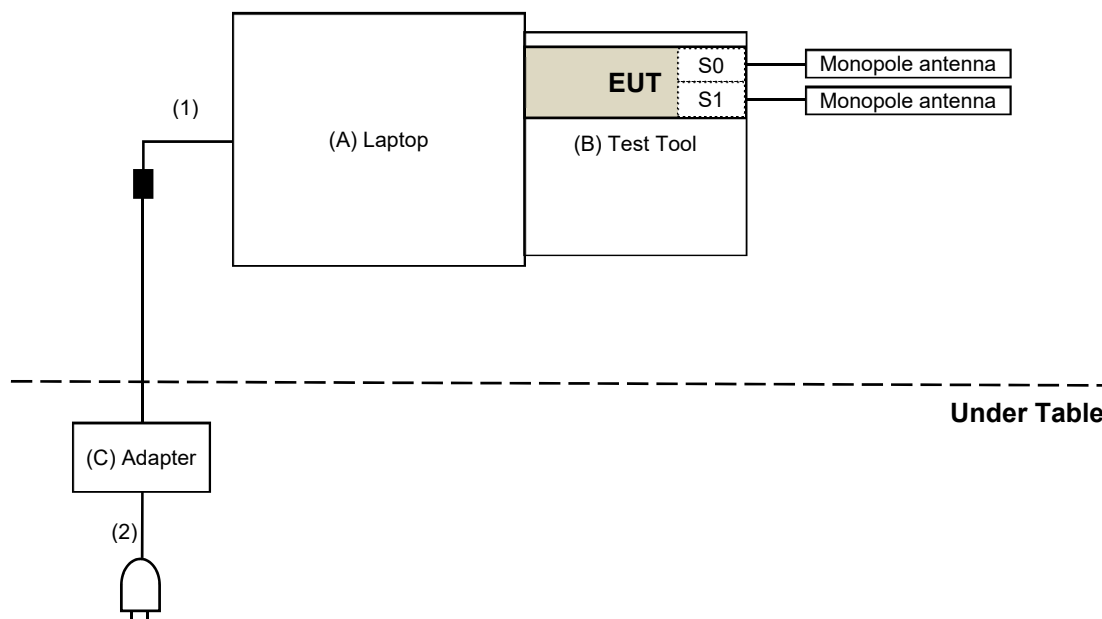
802.11ax (HE20) 106-tone RU

3.6 Test Program Used and Operation Descriptions

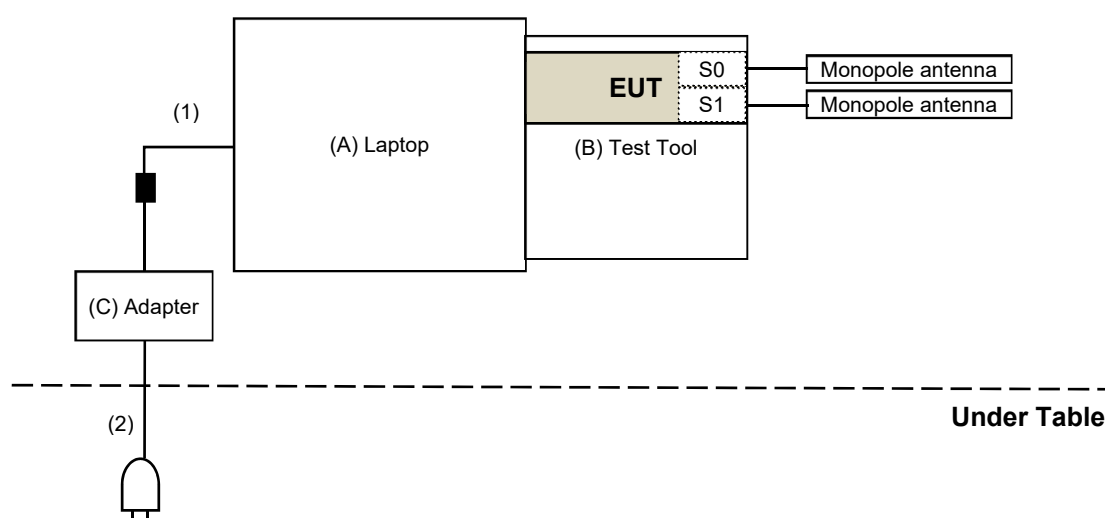
Controlling software (QATool_Ulv2.62_DLLv6.67_2021.04.16.1707_49e8620) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emissions test:



For AC Power Conducted Emission test:



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	L440	R907JXDG	N/A	Provided by Lab
B	Test Tool	Mediatek	MTK1849	N/A	N/A	Supplied by applicant
C	Adapter	Lenovo	ADLX45NCC3A	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	1	Provided by Lab
2	AC Cable	1	1.5	No	0	Provided by Lab

4 Test Instruments

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

4.1 AC Power Conducted Emissions

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

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2024/11/13

4.2 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-406	2024/10/8	2025/10/7
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2024/2/17	2025/2/16
Loop Antenna TESEQ	HLA 6121	63620	2024/10/17	2025/10/16
MXE EMI Receiver Agilent	N9038A	MY51210202	2024/7/29	2025/7/28
Preamplifier EMCI	EMC330N	980701	2024/2/17	2025/2/16
	EMC001340	980142	2024/2/19	2025/2/18
RF Coaxial Cable JYEBAO	5D-FB	LOOPCAB-001	2024/2/19	2025/2/18
		LOOPCAB-002	2024/2/19	2025/2/18
RF Coaxial Cable mTJ	100100-CFD400LW-200	CFD400-200	2024/2/17	2025/2/16
	100100-CFD400LW-400	CFD400-400	2024/2/17	2025/2/16
	100100-CFD400LW-800	CFD400-800	2024/2/17	2025/2/16
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2024/11/13

4.3 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2024/11/10	2025/11/9
	BBHA 9170	9170-739	2024/11/10	2025/11/9
MXA Signal Analyzer Keysight	N9020B	MY60112410	2024/3/13	2025/3/12
Preamplifier EMCI	EMC12630SE	980688	2024/8/8	2025/8/7
	EMC184045SE	980387	2024/8/8	2025/8/7
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2024/1/29	2025/1/28
	EMC102-KM-KM-4000	200214	2024/1/29	2025/1/28
	EMC104-SM-SM-1200	160922	2024/1/29	2025/1/28
	EMC104-SM-SM-2000	180502	2024/1/29	2025/1/28
	EMC104-SM-SM-6000	210704	2024/10/30	2025/10/29
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2024/12/10 ~ 2024/12/12

5 Limits of Test Items

5.1 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.

5.2 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).

5.3 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:

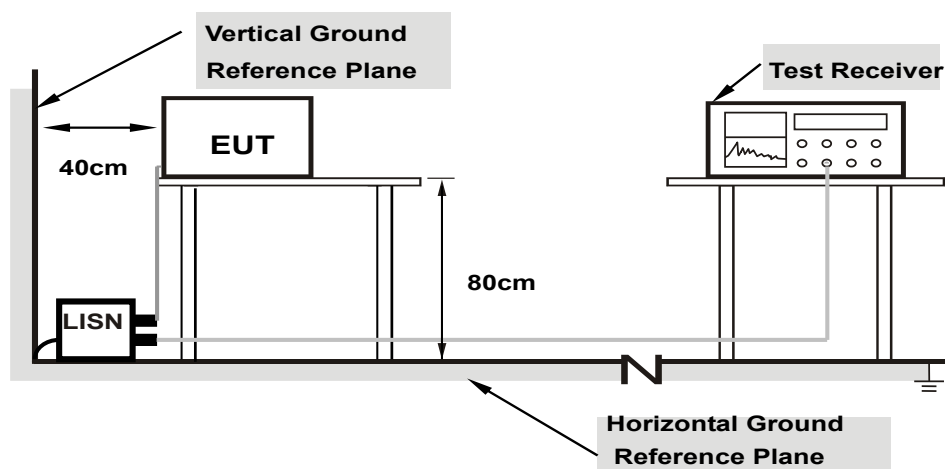
The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 AC Power Conducted Emissions

6.1.1 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).

6.1.2 Test Procedure

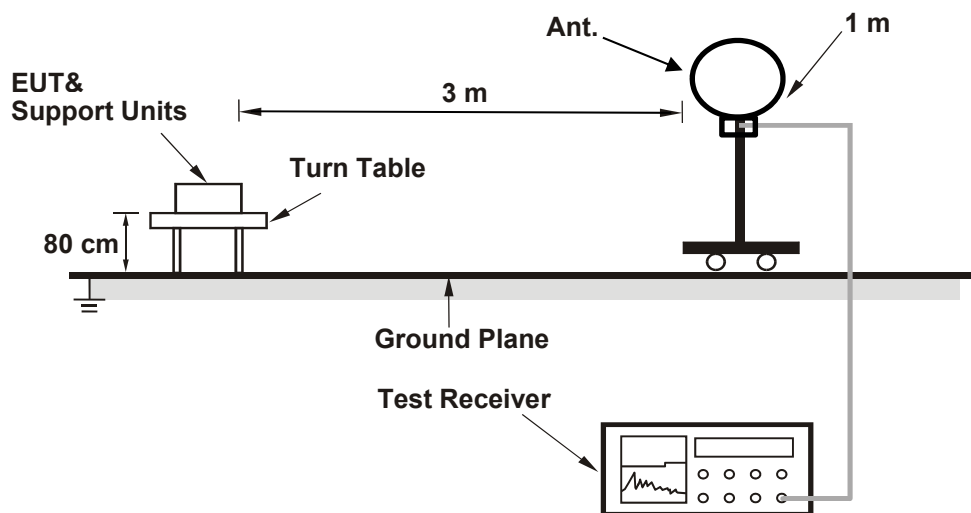
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The 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.

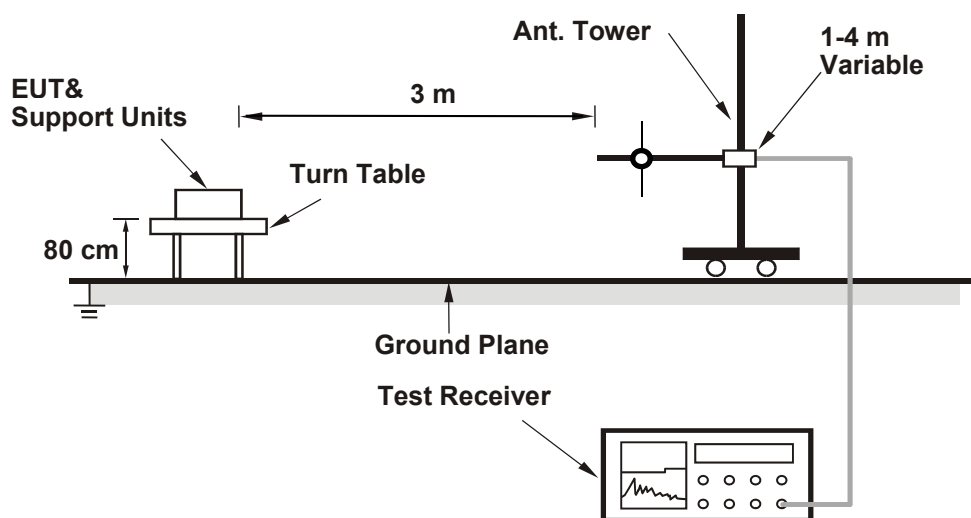
6.2 Unwanted Emissions below 1 GHz

6.2.1 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).

6.2.2 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

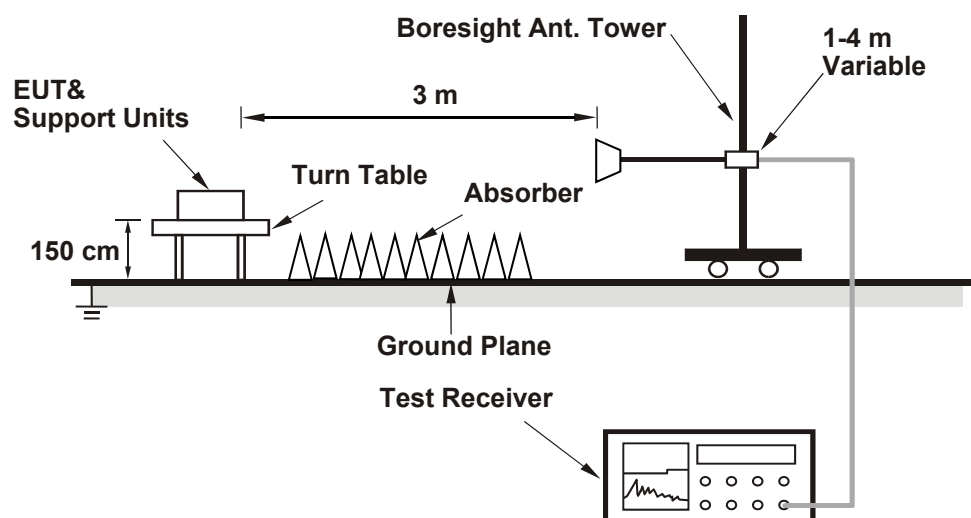
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

6.3 Unwanted Emissions above 1 GHz

6.3.1 Test Setup



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

6.3.2 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

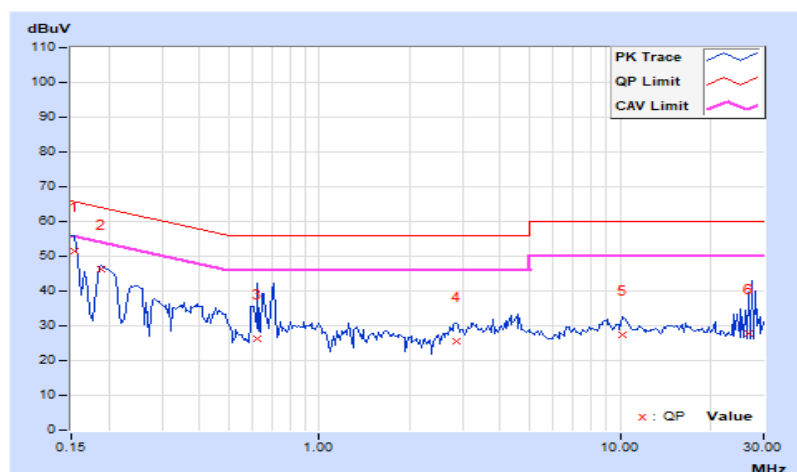
7.1 AC Power Conducted Emissions

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.02	41.50	23.48	51.52	33.50	65.79	55.79	-14.27	-22.29
2	0.18906	10.02	36.14	21.69	46.16	31.71	64.08	54.08	-17.92	-22.37
3	0.62266	10.03	16.27	4.10	26.30	14.13	56.00	46.00	-29.70	-31.87
4	2.86328	10.14	15.57	6.25	25.71	16.39	56.00	46.00	-30.29	-29.61
5	10.14063	10.52	16.85	11.91	27.37	22.43	60.00	50.00	-32.63	-27.57
6	26.70703	11.42	16.49	5.24	27.91	16.66	60.00	50.00	-32.09	-33.34

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

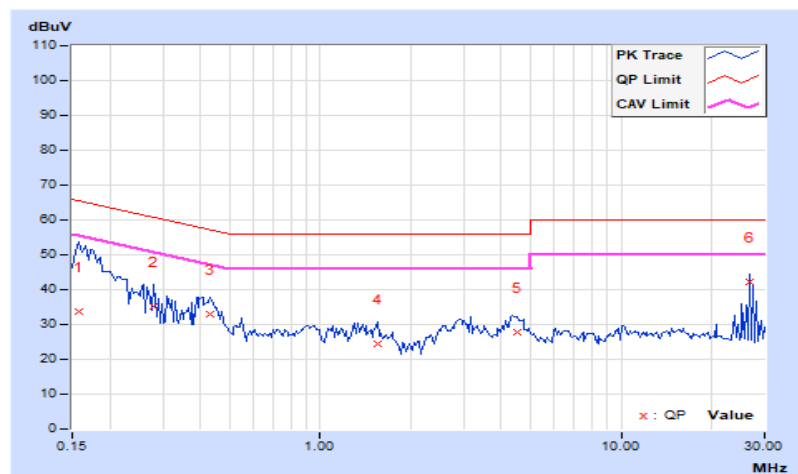


RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	0.15781	10.01	23.58	-1.49	33.59	8.52	65.58	55.58	-31.99	-47.06
2	0.27891	10.01	25.22	8.41	35.23	18.42	60.85	50.85	-25.62	-32.43
3	0.43125	10.01	23.02	11.56	33.03	21.57	57.23	47.23	-24.20	-25.66
4	1.54688	10.06	14.27	5.06	24.33	15.12	56.00	46.00	-31.67	-30.88
5	4.50781	10.18	17.46	8.87	27.64	19.05	56.00	46.00	-28.36	-26.95
6	26.79297	11.01	31.39	27.20	42.40	38.21	60.00	50.00	-17.60	-11.79

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



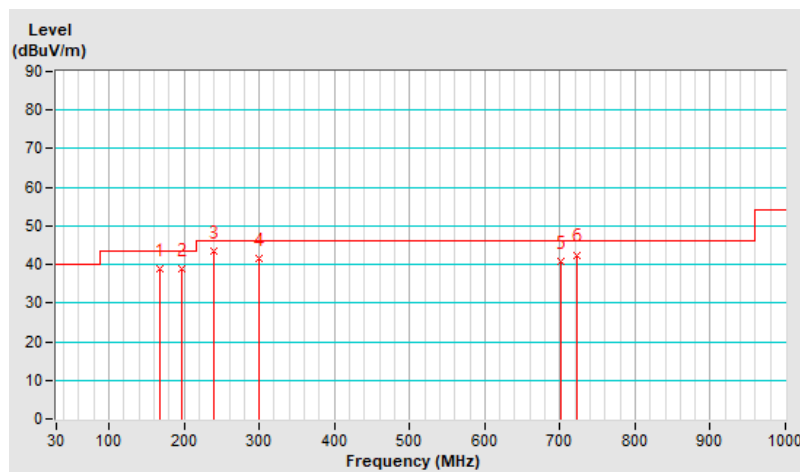
7.2 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	20 °C, 62 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	167.97	39.0 QP	43.5	-4.5	1.50 H	171	57.3	-18.3
2	197.40	38.8 QP	43.5	-4.7	2.00 H	80	60.0	-21.2
3	240.20	43.5 QP	46.0	-2.5	2.00 H	332	63.0	-19.5
4	299.61	41.7 QP	46.0	-4.3	3.00 H	333	59.0	-17.3
5	700.90	40.8 QP	46.0	-5.2	1.50 H	265	49.2	-8.4
6	723.06	42.5 QP	46.0	-3.5	1.00 H	154	50.4	-7.9

Remarks:

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

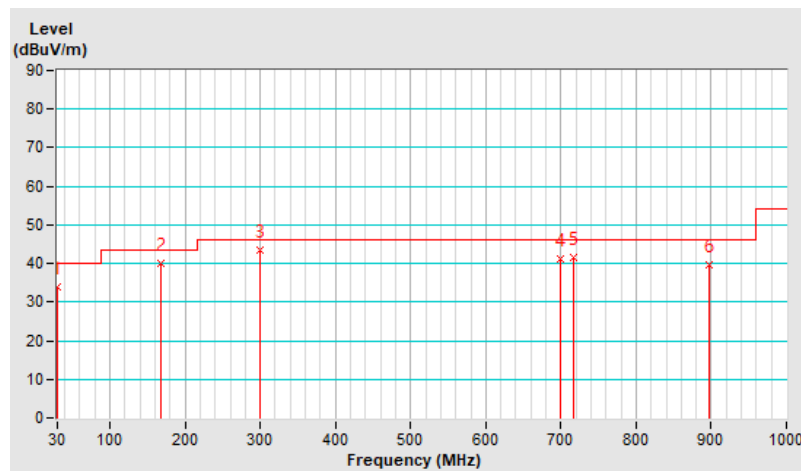


RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	20 °C, 62 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.41	33.8 QP	40.0	-6.2	1.50 V	311	52.6	-18.8
2	168.19	40.0 QP	43.5	-3.5	1.50 V	231	58.3	-18.3
3	299.02	43.3 QP	46.0	-2.7	3.00 V	323	60.7	-17.4
4	699.84	41.0 QP	46.0	-5.0	1.50 V	197	49.4	-8.4
5	715.96	41.7 QP	46.0	-4.3	2.00 V	216	49.7	-8.0
6	897.87	39.5 QP	46.0	-6.5	1.00 V	222	44.7	-5.2

Remarks:

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



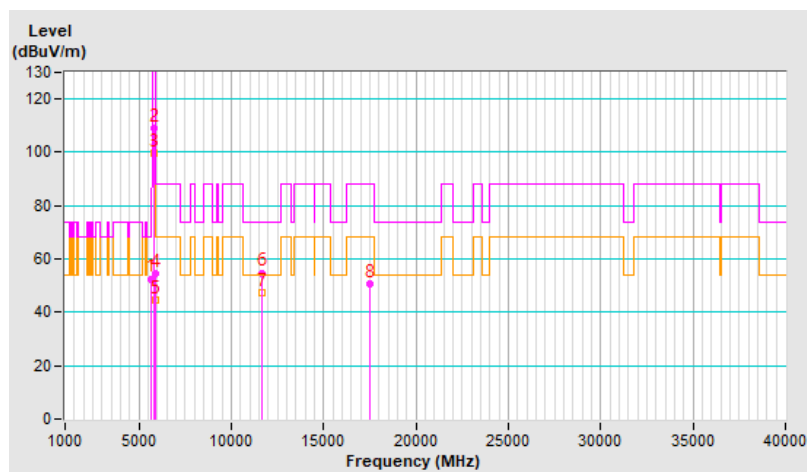
7.3 Unwanted Emissions above 1 GHz

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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	52.6 PK	68.2	-15.6	3.70 H	164	46.5	6.1
2	*5845.00	108.8 PK			3.70 H	164	102.2	6.6
3	*5845.00	99.8 AV			3.70 H	164	93.2	6.6
4	#5895.00	54.7 PK	110.2	-55.5	3.70 H	164	47.8	6.9
5	#5895.00	44.5 AV	90.2	-45.7	3.70 H	164	37.6	6.9
6	11690.00	54.8 PK	74.0	-19.2	1.58 H	50	38.1	16.7
7	11690.00	47.4 AV	54.0	-6.6	1.58 H	50	30.7	16.7
8	#17535.00	50.8 PK	88.2	-37.4	1.66 H	65	27.4	23.4

Remarks:

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

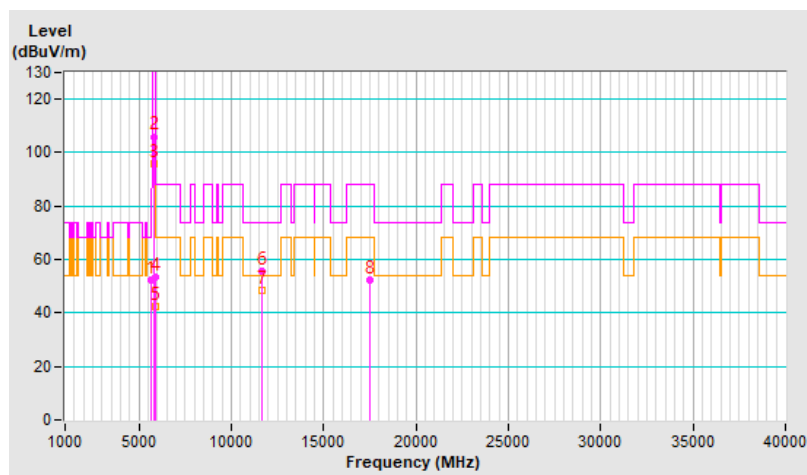


RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	52.5 PK	68.2	-15.7	1.01 V	180	46.4	6.1
2	*5845.00	106.0 PK			1.01 V	180	99.4	6.6
3	*5845.00	95.6 AV			1.01 V	180	89.0	6.6
4	#5895.00	53.6 PK	110.2	-56.6	1.01 V	180	46.7	6.9
5	#5895.00	42.3 AV	90.2	-47.9	1.01 V	180	35.4	6.9
6	11690.00	55.8 PK	74.0	-18.2	1.45 V	22	39.1	16.7
7	11690.00	48.5 AV	54.0	-5.5	1.45 V	22	31.8	16.7
8	#17535.00	52.3 PK	88.2	-35.9	1.55 V	36	28.9	23.4

Remarks:

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

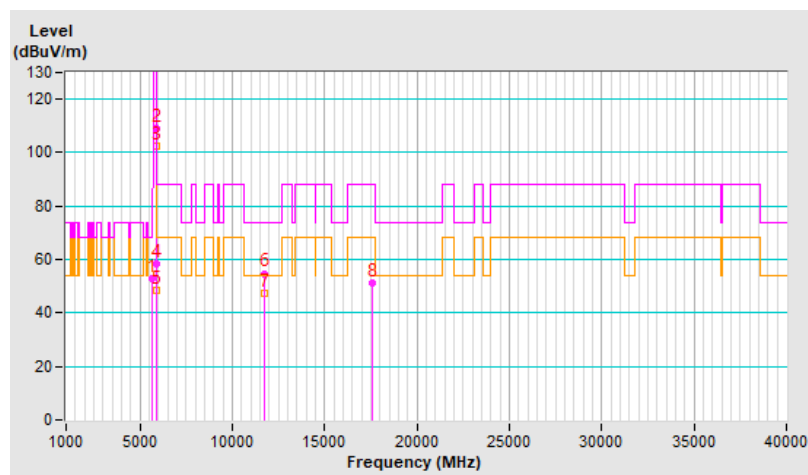


RF Mode	802.11a	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	52.9 PK	68.2	-15.3	3.72 H	180	46.8	6.1
2	*5865.00	109.3 PK			3.72 H	180	102.6	6.7
3	*5865.00	102.2 AV			3.72 H	180	95.5	6.7
4	#5895.00	58.6 PK	110.2	-51.6	3.72 H	180	51.7	6.9
5	#5895.00	48.5 AV	90.2	-41.7	3.72 H	180	41.6	6.9
6	11730.00	54.8 PK	74.0	-19.2	1.58 H	37	38.3	16.5
7	11730.00	47.2 AV	54.0	-6.8	1.58 H	37	30.7	16.5
8	#17595.00	51.0 PK	88.2	-37.2	1.61 H	67	26.9	24.1

Remarks:

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

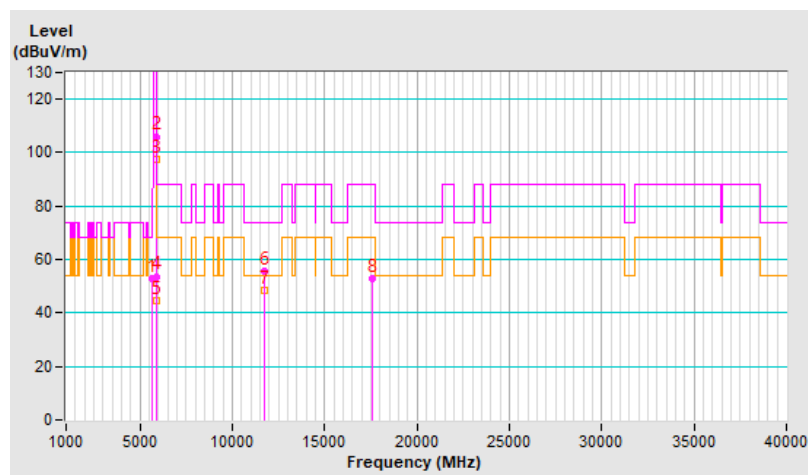


RF Mode	802.11a	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	52.7 PK	68.2	-15.5	1.06 V	182	46.6	6.1
2	*5865.00	106.0 PK			1.06 V	182	99.3	6.7
3	*5865.00	97.7 AV			1.06 V	182	91.0	6.7
4	#5895.00	53.7 PK	110.2	-56.5	1.06 V	182	46.8	6.9
5	#5895.00	44.5 AV	90.2	-45.7	1.06 V	182	37.6	6.9
6	11730.00	55.8 PK	74.0	-18.2	1.43 V	14	39.3	16.5
7	11730.00	48.5 AV	54.0	-5.5	1.43 V	14	32.0	16.5
8	#17595.00	52.8 PK	88.2	-35.4	1.60 V	38	28.7	24.1

Remarks:

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

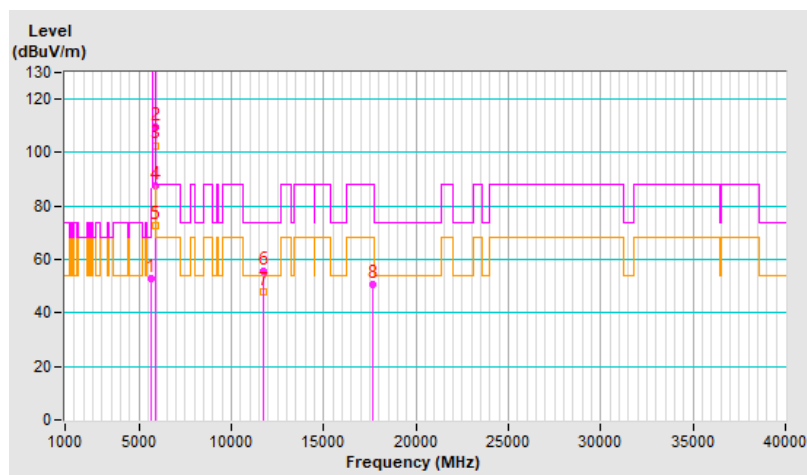


RF Mode	802.11a	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	53.0 PK	68.2	-15.2	3.45 H	179	46.9	6.1
2	*5885.00	109.5 PK			3.45 H	179	102.7	6.8
3	*5885.00	102.7 AV			3.45 H	179	95.9	6.8
4	#5895.00	87.6 PK	110.2	-22.6	3.45 H	179	80.7	6.9
5	#5895.00	72.9 AV	90.2	-17.3	3.45 H	179	66.0	6.9
6	11770.00	55.5 PK	74.0	-18.5	1.58 H	43	39.3	16.2
7	11770.00	47.8 AV	54.0	-6.2	1.58 H	43	31.6	16.2
8	#17655.00	50.9 PK	88.2	-37.3	1.69 H	74	26.3	24.6

Remarks:

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

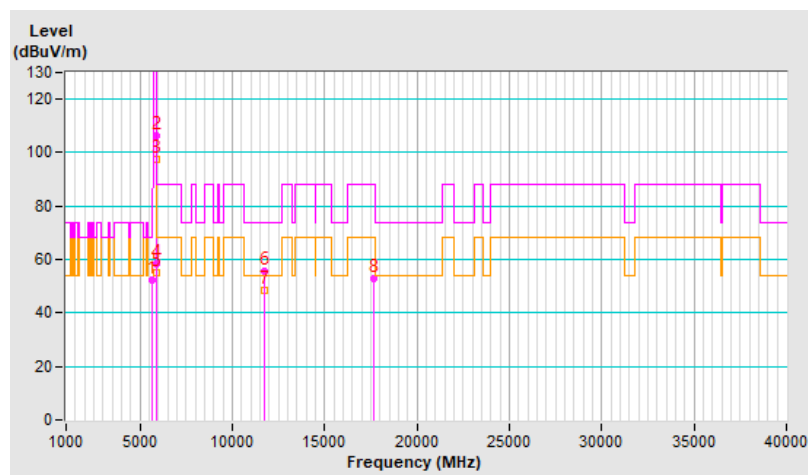


RF Mode	802.11a	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	52.1 PK	68.2	-16.1	1.05 V	182	46.0	6.1
2	*5885.00	106.5 PK			1.05 V	182	99.7	6.8
3	*5885.00	97.7 AV			1.05 V	182	90.9	6.8
4	#5895.00	58.6 PK	110.2	-51.6	1.05 V	182	51.7	6.9
5	#5895.00	54.9 AV	90.2	-35.3	1.05 V	182	48.0	6.9
6	11770.00	55.8 PK	74.0	-18.2	1.43 V	17	39.6	16.2
7	11770.00	48.3 AV	54.0	-5.7	1.43 V	17	32.1	16.2
8	#17655.00	52.8 PK	88.2	-35.4	1.57 V	33	28.2	24.6

Remarks:

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

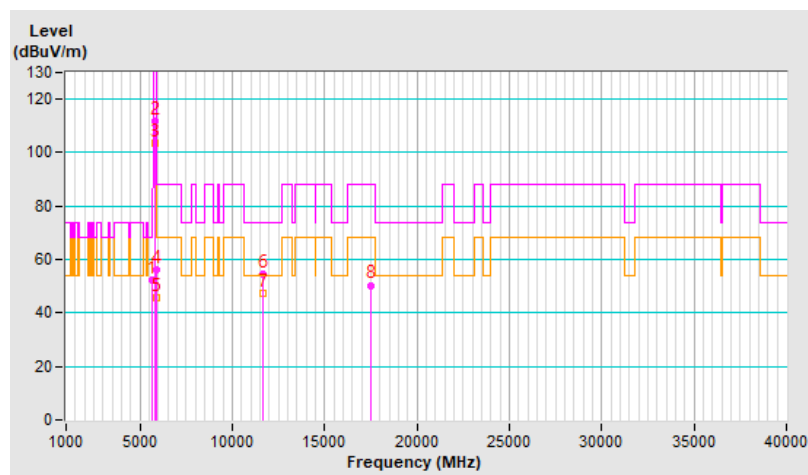


RF Mode	802.11ax (HE20)	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	52.2 PK	68.2	-16.0	3.86 H	173	46.1	6.1
2	*5845.00	111.7 PK			3.86 H	173	105.1	6.6
3	*5845.00	103.3 AV			3.86 H	173	96.7	6.6
4	#5895.00	56.1 PK	110.2	-54.1	3.86 H	173	49.2	6.9
5	#5895.00	45.9 AV	90.2	-44.3	3.86 H	173	39.0	6.9
6	11690.00	54.4 PK	74.0	-19.6	1.55 H	57	37.7	16.7
7	11690.00	47.3 AV	54.0	-6.7	1.55 H	57	30.6	16.7
8	#17535.00	50.4 PK	88.2	-37.8	1.71 H	80	27.0	23.4

Remarks:

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

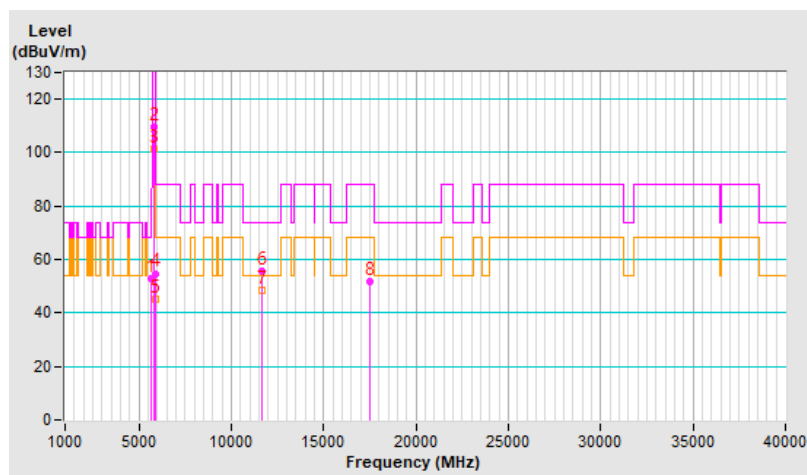


RF Mode	802.11ax (HE20)	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	52.8 PK	68.2	-15.4	1.10 V	160	46.7	6.1
2	*5845.00	109.7 PK			1.10 V	160	103.1	6.6
3	*5845.00	101.4 AV			1.10 V	160	94.8	6.6
4	#5895.00	54.8 PK	110.2	-55.4	1.10 V	160	47.9	6.9
5	#5895.00	45.3 AV	90.2	-44.9	1.10 V	160	38.4	6.9
6	11690.00	55.4 PK	74.0	-18.6	1.42 V	14	38.7	16.7
7	11690.00	48.4 AV	54.0	-5.6	1.42 V	14	31.7	16.7
8	#17535.00	51.7 PK	88.2	-36.5	1.50 V	32	28.3	23.4

Remarks:

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

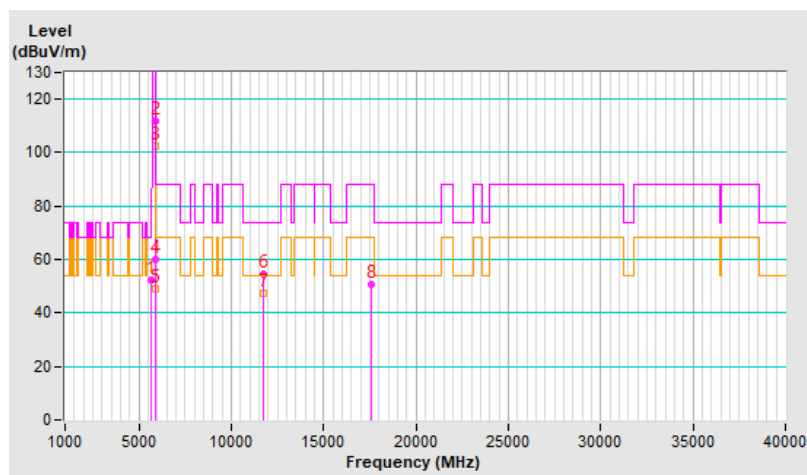


RF Mode	802.11ax (HE20)	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	52.2 PK	68.2	-16.0	3.84 H	174	46.1	6.1
2	*5865.00	111.8 PK			3.84 H	174	105.1	6.7
3	*5865.00	102.6 AV			3.84 H	174	95.9	6.7
4	#5895.00	60.2 PK	110.2	-50.0	3.84 H	174	53.3	6.9
5	#5895.00	48.8 AV	90.2	-41.4	3.84 H	174	41.9	6.9
6	11730.00	54.3 PK	74.0	-19.7	1.56 H	39	37.8	16.5
7	11730.00	47.1 AV	54.0	-6.9	1.56 H	39	30.6	16.5
8	#17595.00	50.5 PK	88.2	-37.7	1.61 H	70	26.4	24.1

Remarks:

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

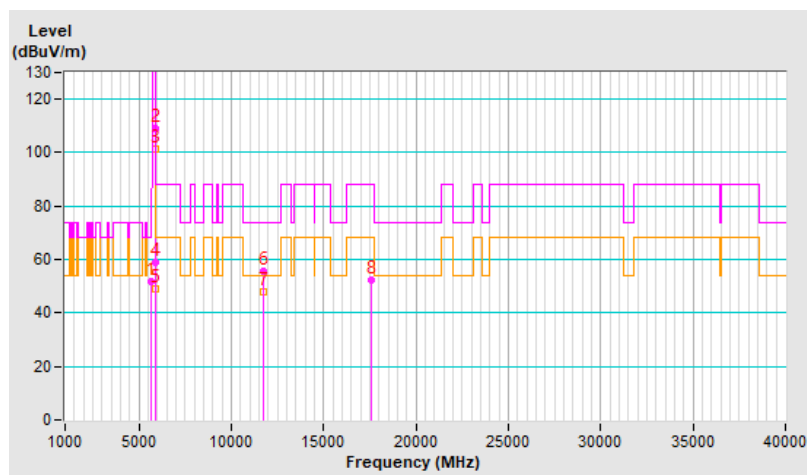


RF Mode	802.11ax (HE20)	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	52.0 PK	68.2	-16.2	1.01 V	157	45.9	6.1
2	*5865.00	109.2 PK			1.01 V	157	102.5	6.7
3	*5865.00	101.2 AV			1.01 V	157	94.5	6.7
4	#5895.00	58.9 PK	110.2	-51.3	1.01 V	157	52.0	6.9
5	#5895.00	49.2 AV	90.2	-41.0	1.01 V	157	42.3	6.9
6	11730.00	55.4 PK	74.0	-18.6	1.41 V	11	38.9	16.5
7	11730.00	48.1 AV	54.0	-5.9	1.41 V	11	31.6	16.5
8	#17595.00	52.4 PK	88.2	-35.8	1.60 V	26	28.3	24.1

Remarks:

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

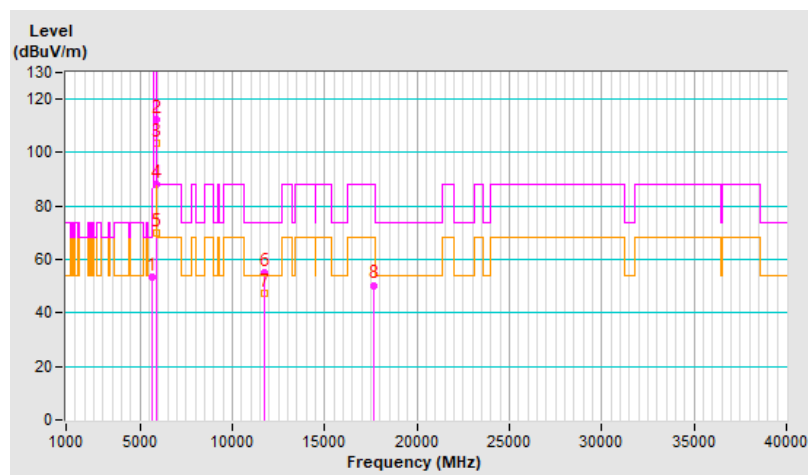


RF Mode	802.11ax (HE20)	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	53.4 PK	68.2	-14.8	3.76 H	168	47.3	6.1
2	*5885.00	112.3 PK			3.76 H	168	105.5	6.8
3	*5885.00	103.4 AV			3.76 H	168	96.6	6.8
4	#5895.00	88.3 PK	110.2	-21.9	3.76 H	168	81.4	6.9
5	#5895.00	70.0 AV	90.2	-20.2	3.76 H	168	63.1	6.9
6	11770.00	55.0 PK	74.0	-19.0	1.63 H	41	38.8	16.2
7	11770.00	47.4 AV	54.0	-6.6	1.63 H	41	31.2	16.2
8	#17655.00	50.4 PK	88.2	-37.8	1.63 H	57	25.8	24.6

Remarks:

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

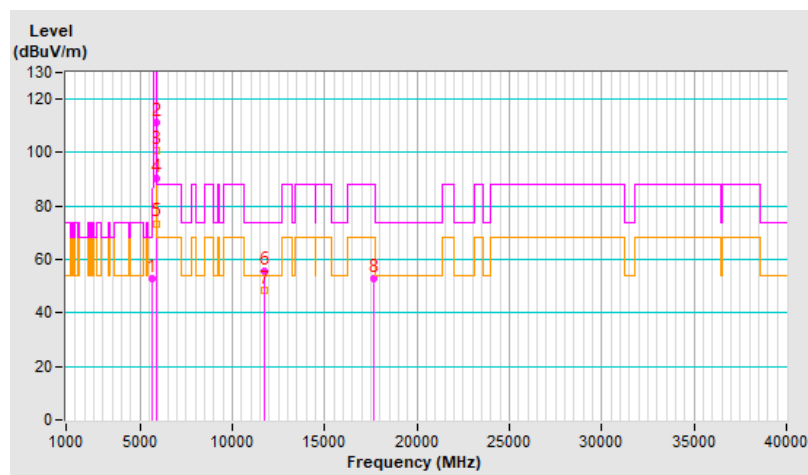


RF Mode	802.11ax (HE20)	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	53.0 PK	68.2	-15.2	1.01 V	155	46.9	6.1
2	*5885.00	111.1 PK			1.01 V	155	104.3	6.8
3	*5885.00	100.8 AV			1.01 V	155	94.0	6.8
4	#5895.00	90.5 PK	110.2	-19.7	1.01 V	155	83.6	6.9
5	#5895.00	73.5 AV	90.2	-16.7	1.01 V	155	66.6	6.9
6	11770.00	55.8 PK	74.0	-18.2	1.49 V	37	39.6	16.2
7	11770.00	48.6 AV	54.0	-5.4	1.49 V	37	32.4	16.2
8	#17655.00	52.7 PK	88.2	-35.5	1.51 V	22	28.1	24.6

Remarks:

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

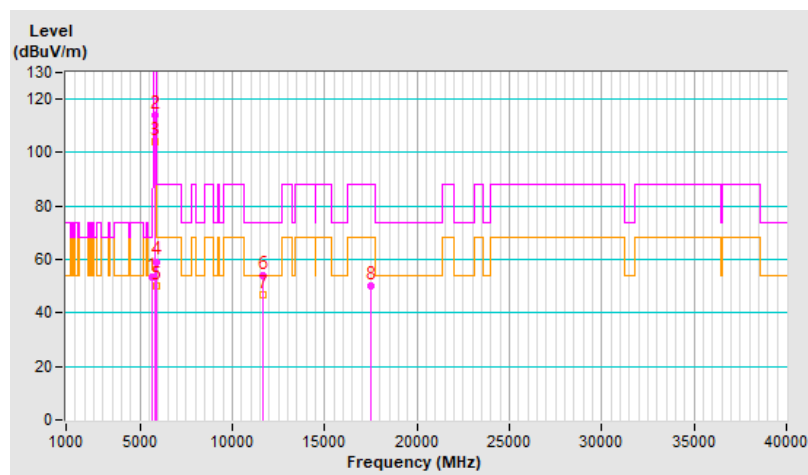


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=300 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	53.6 PK	68.2	-14.6	3.85 H	175	47.5	6.1
2	*5835.00	114.2 PK			3.85 H	175	107.6	6.6
3	*5835.00	104.0 AV			3.85 H	175	97.4	6.6
4	#5895.00	59.2 PK	110.2	-51.0	3.85 H	175	52.3	6.9
5	#5895.00	50.0 AV	90.2	-40.2	3.85 H	175	43.1	6.9
6	11670.00	54.2 PK	74.0	-19.8	1.63 H	38	37.5	16.7
7	11670.00	47.0 AV	54.0	-7.0	1.63 H	38	30.3	16.7
8	#17505.00	50.3 PK	88.2	-37.9	1.64 H	63	27.2	23.1

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.

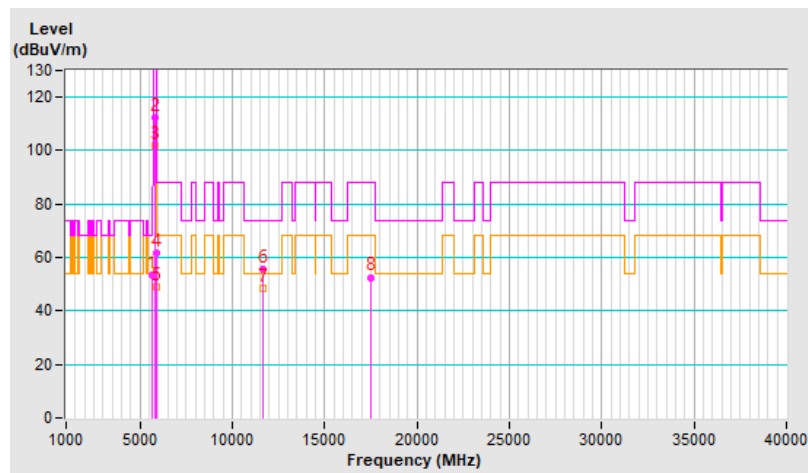


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=300 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	53.5 PK	68.2	-14.7	1.03 V	159	47.4	6.1
2	*5835.00	112.6 PK			1.03 V	159	106.0	6.6
3	*5835.00	102.1 AV			1.03 V	159	95.5	6.6
4	#5895.00	61.7 PK	110.2	-48.5	1.03 V	159	54.8	6.9
5	#5895.00	49.2 AV	90.2	-41.0	1.03 V	159	42.3	6.9
6	11670.00	55.8 PK	74.0	-18.2	1.51 V	37	39.1	16.7
7	11670.00	48.4 AV	54.0	-5.6	1.51 V	37	31.7	16.7
8	#17505.00	52.6 PK	88.2	-35.6	1.60 V	41	29.5	23.1

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.

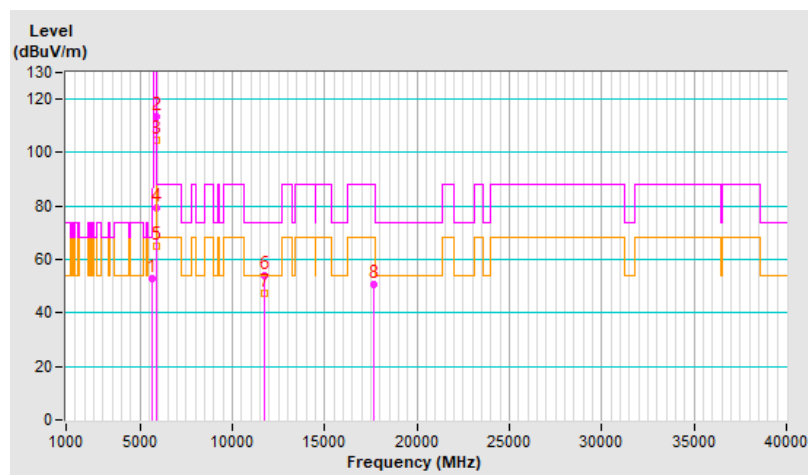


RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=300 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	53.0 PK	68.2	-15.2	3.85 H	167	46.9	6.1
2	*5875.00	113.7 PK			3.85 H	167	106.9	6.8
3	*5875.00	104.4 AV			3.85 H	167	97.6	6.8
4	#5895.00	79.1 PK	110.2	-31.1	3.85 H	167	72.2	6.9
5	#5895.00	65.1 AV	90.2	-25.1	3.85 H	167	58.2	6.9
6	11750.00	54.2 PK	74.0	-19.8	1.54 H	47	37.8	16.4
7	11750.00	47.1 AV	54.0	-6.9	1.54 H	47	30.7	16.4
8	#17625.00	50.7 PK	88.2	-37.5	1.68 H	63	26.3	24.4

Remarks:

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

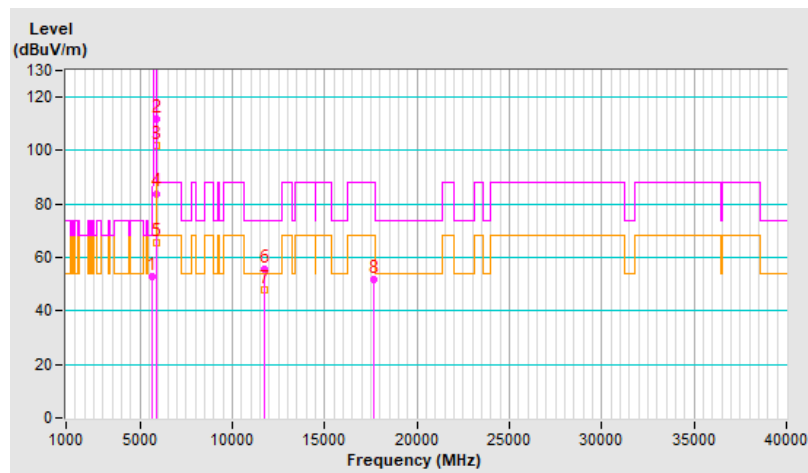


RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=300 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	53.1 PK	68.2	-15.1	1.01 V	157	47.0	6.1
2	*5875.00	111.7 PK			1.01 V	157	104.9	6.8
3	*5875.00	101.8 AV			1.01 V	157	95.0	6.8
4	#5895.00	84.0 PK	110.2	-26.2	1.01 V	157	77.1	6.9
5	#5895.00	65.5 AV	90.2	-24.7	1.01 V	157	58.6	6.9
6	11750.00	55.5 PK	74.0	-18.5	1.43 V	15	39.1	16.4
7	11750.00	48.1 AV	54.0	-5.9	1.43 V	15	31.7	16.4
8	#17625.00	51.9 PK	88.2	-36.3	1.56 V	49	27.5	24.4

Remarks:

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

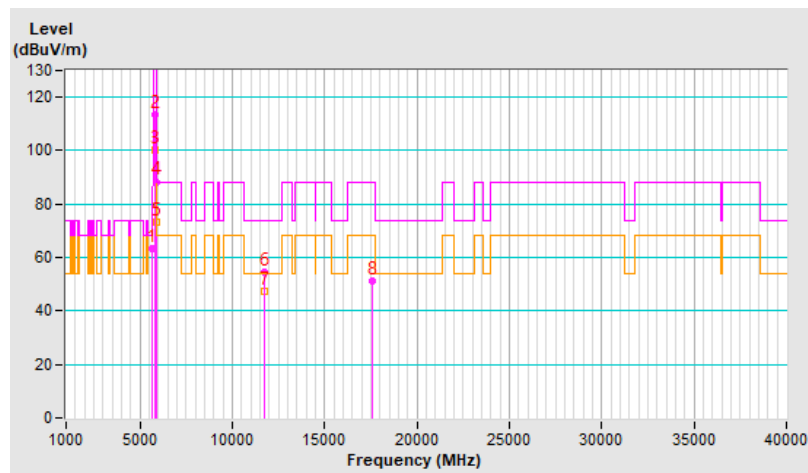


RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	63.2 PK	68.2	-5.0	3.87 H	174	57.1	6.1
2	*5855.00	113.3 PK			3.87 H	174	106.6	6.7
3	*5855.00	100.4 AV			3.87 H	174	93.7	6.7
4	#5895.00	88.4 PK	110.2	-21.8	3.87 H	174	81.5	6.9
5	#5895.00	73.0 AV	90.2	-17.2	3.87 H	174	66.1	6.9
6	11710.00	54.7 PK	74.0	-19.3	1.60 H	65	38.1	16.6
7	11710.00	47.5 AV	54.0	-6.5	1.60 H	65	30.9	16.6
8	#17565.00	51.2 PK	88.2	-37.0	1.66 H	78	27.5	23.7

Remarks:

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

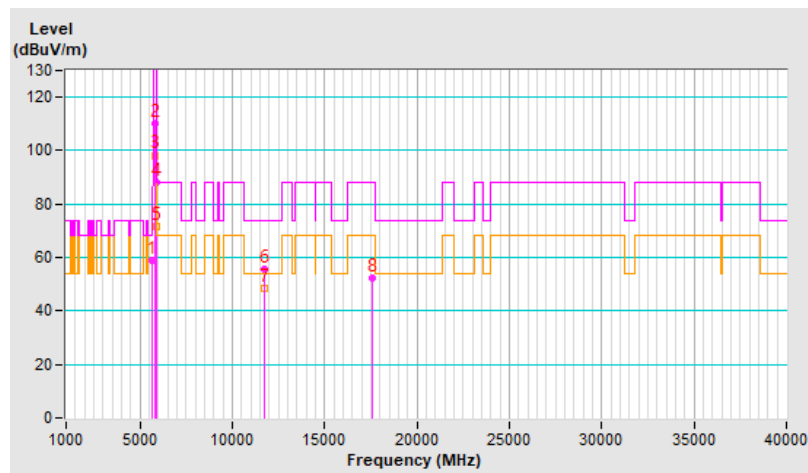


RF Mode	802.11ax (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	58.8 PK	68.2	-9.4	1.06 V	187	52.7	6.1
2	*5855.00	109.9 PK			1.06 V	187	103.2	6.7
3	*5855.00	98.3 AV			1.06 V	187	91.6	6.7
4	#5895.00	88.3 PK	110.2	-21.9	1.06 V	187	81.4	6.9
5	#5895.00	71.7 AV	90.2	-18.5	1.06 V	187	64.8	6.9
6	11710.00	55.8 PK	74.0	-18.2	1.44 V	34	39.2	16.6
7	11710.00	48.4 AV	54.0	-5.6	1.44 V	34	31.8	16.6
8	#17565.00	52.5 PK	88.2	-35.7	1.60 V	33	28.8	23.7

Remarks:

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

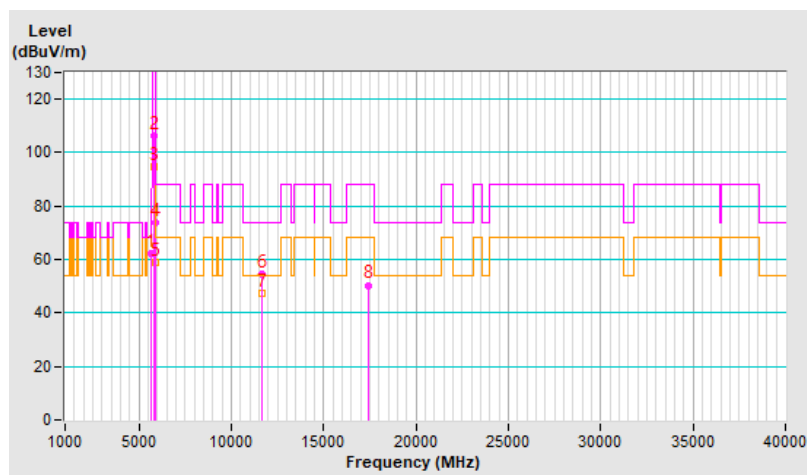


RF Mode	802.11ax (HE160)	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	62.2 PK	68.2	-6.0	3.83 H	180	56.1	6.1
2	*5815.00	106.5 PK			3.83 H	180	99.8	6.7
3	*5815.00	94.8 AV			3.83 H	180	88.1	6.7
4	#5895.00	73.6 PK	110.2	-36.6	3.83 H	180	66.7	6.9
5	#5895.00	59.1 AV	90.2	-31.1	3.83 H	180	52.2	6.9
6	11630.00	54.5 PK	74.0	-19.5	1.60 H	45	37.7	16.8
7	11630.00	47.4 AV	54.0	-6.6	1.60 H	45	30.6	16.8
8	#17445.00	50.4 PK	88.2	-37.8	1.63 H	53	27.9	22.5

Remarks:

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

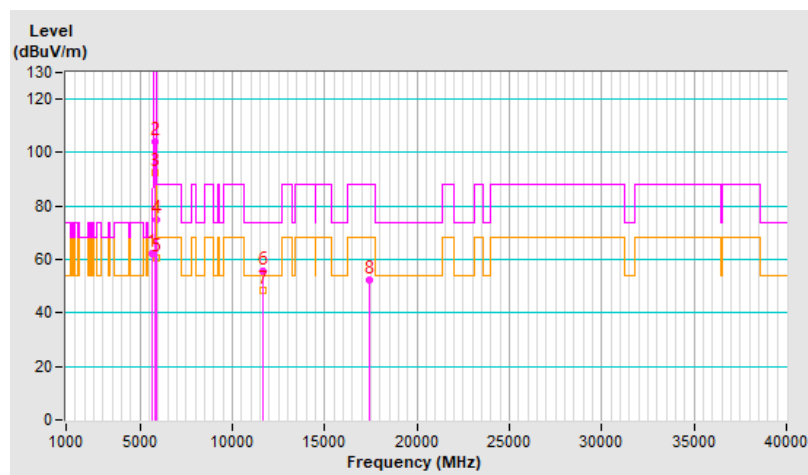


RF Mode	802.11ax (HE160)	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	62.1 PK	68.2	-6.1	1.01 V	159	56.0	6.1
2	*5815.00	104.3 PK			1.01 V	159	97.6	6.7
3	*5815.00	92.7 AV			1.01 V	159	86.0	6.7
4	#5895.00	74.9 PK	110.2	-35.3	1.01 V	159	68.0	6.9
5	#5895.00	60.7 AV	90.2	-29.5	1.01 V	159	53.8	6.9
6	11630.00	55.4 PK	74.0	-18.6	1.48 V	12	38.6	16.8
7	11630.00	48.2 AV	54.0	-5.8	1.48 V	12	31.4	16.8
8	#17445.00	52.4 PK	88.2	-35.8	1.53 V	31	29.9	22.5

Remarks:

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

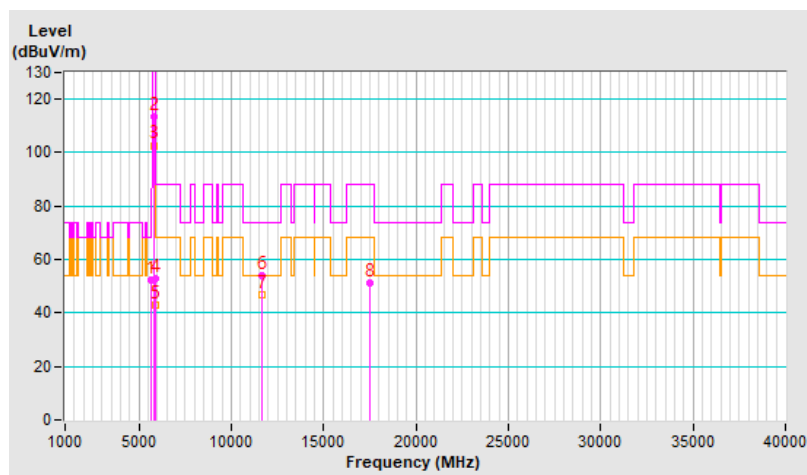


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	52.1 PK	68.2	-16.1	3.48 H	168	46.0	6.1
2	*5845.00	113.4 PK			3.48 H	168	106.8	6.6
3	*5845.00	102.7 AV			3.48 H	168	96.1	6.6
4	#5895.00	53.0 PK	110.2	-57.2	3.48 H	168	46.1	6.9
5	#5895.00	42.8 AV	90.2	-47.4	3.48 H	168	35.9	6.9
6	11690.00	54.1 PK	74.0	-19.9	1.54 H	61	37.4	16.7
7	11690.00	47.0 AV	54.0	-7.0	1.54 H	61	30.3	16.7
8	#17535.00	51.1 PK	88.2	-37.1	1.66 H	81	27.7	23.4

Remarks:

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

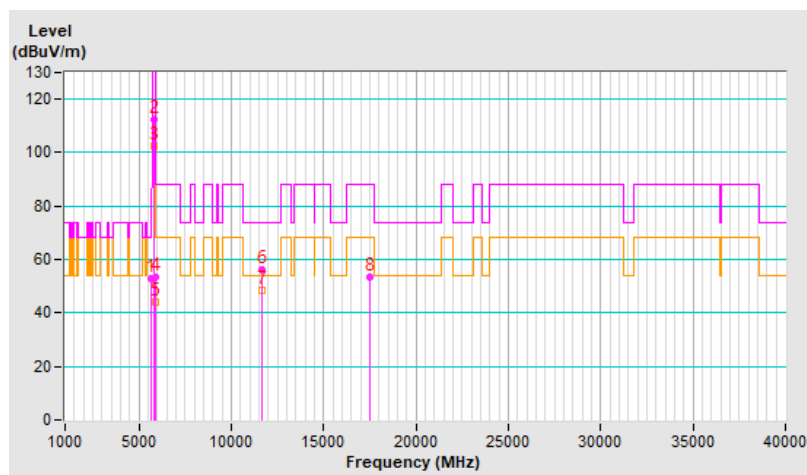


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	52.7 PK	68.2	-15.5	1.00 V	159	46.6	6.1
2	*5845.00	112.6 PK			1.00 V	159	106.0	6.6
3	*5845.00	102.5 AV			1.00 V	159	95.9	6.6
4	#5895.00	53.2 PK	110.2	-57.0	1.00 V	159	46.3	6.9
5	#5895.00	44.1 AV	90.2	-46.1	1.00 V	159	37.2	6.9
6	11690.00	56.2 PK	74.0	-17.8	1.50 V	8	39.5	16.7
7	11690.00	48.7 AV	54.0	-5.3	1.50 V	8	32.0	16.7
8	#17535.00	53.2 PK	88.2	-35.0	1.52 V	34	29.8	23.4

Remarks:

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

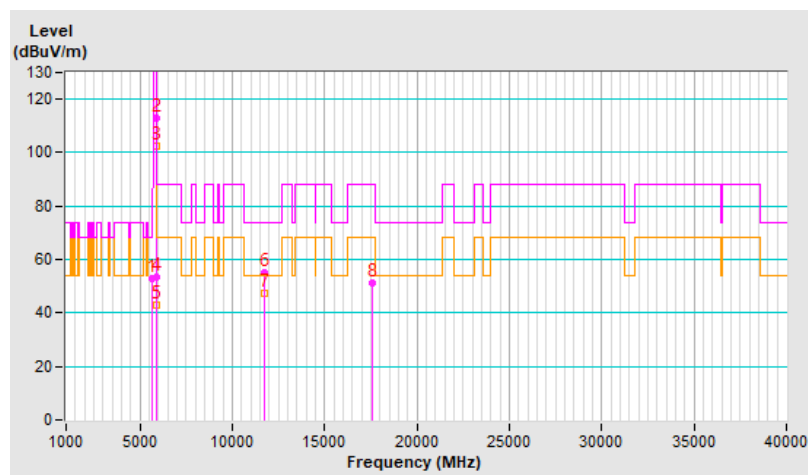


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	52.8 PK	68.2	-15.4	3.51 H	177	46.7	6.1
2	*5865.00	113.0 PK			3.51 H	177	106.3	6.7
3	*5865.00	102.4 AV			3.51 H	177	95.7	6.7
4	#5895.00	53.2 PK	110.2	-57.0	3.51 H	177	46.3	6.9
5	#5895.00	43.0 AV	90.2	-47.2	3.51 H	177	36.1	6.9
6	11730.00	54.9 PK	74.0	-19.1	1.56 H	45	38.4	16.5
7	11730.00	47.2 AV	54.0	-6.8	1.56 H	45	30.7	16.5
8	#17595.00	51.2 PK	88.2	-37.0	1.69 H	67	27.1	24.1

Remarks:

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

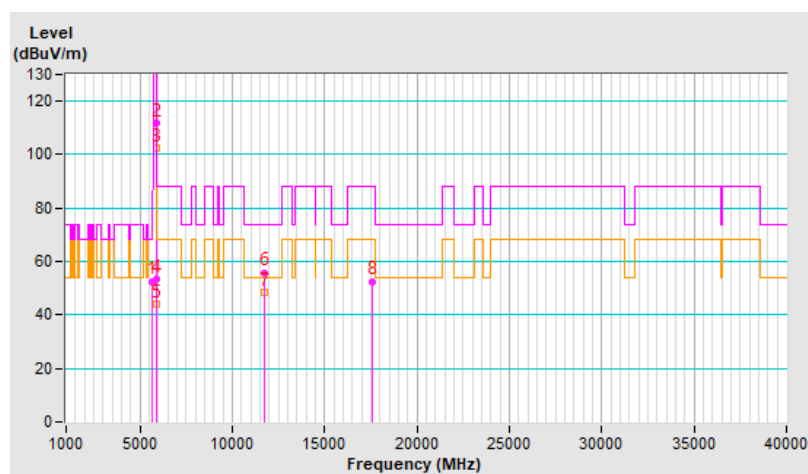


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	52.6 PK	68.2	-15.6	1.02 V	156	46.5	6.1
2	*5865.00	111.7 PK			1.02 V	156	105.0	6.7
3	*5865.00	102.4 AV			1.02 V	156	95.7	6.7
4	#5895.00	53.4 PK	110.2	-56.8	1.02 V	156	46.5	6.9
5	#5895.00	43.9 AV	90.2	-46.3	1.02 V	156	37.0	6.9
6	11730.00	55.9 PK	74.0	-18.1	1.49 V	1	39.4	16.5
7	11730.00	48.5 AV	54.0	-5.5	1.49 V	1	32.0	16.5
8	#17595.00	52.6 PK	88.2	-35.6	1.55 V	38	28.5	24.1

Remarks:

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

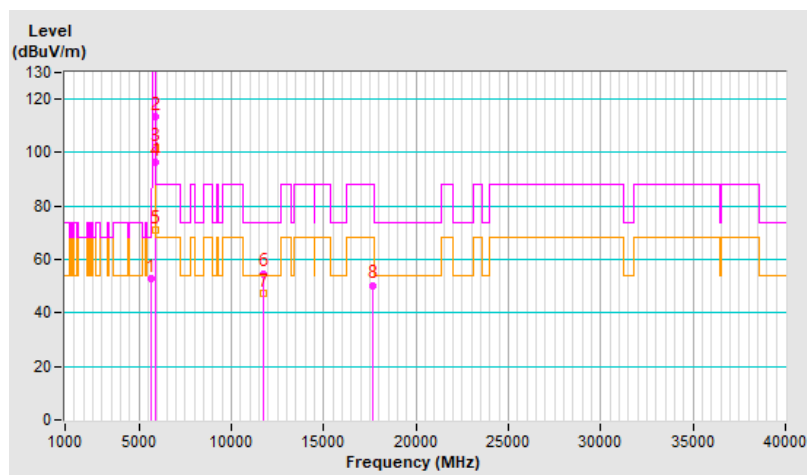


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	53.0 PK	68.2	-15.2	3.98 H	175	46.9	6.1
2	*5885.00	113.6 PK			3.98 H	175	106.8	6.8
3	*5885.00	101.9 AV			3.98 H	175	95.1	6.8
4	#5895.00	96.3 PK	110.2	-13.9	3.98 H	175	89.4	6.9
5	#5895.00	70.9 AV	90.2	-19.3	3.98 H	175	64.0	6.9
6	11770.00	54.8 PK	74.0	-19.2	1.58 H	51	38.6	16.2
7	11770.00	47.5 AV	54.0	-6.5	1.58 H	51	31.3	16.2
8	#17655.00	50.4 PK	88.2	-37.8	1.61 H	58	25.8	24.6

Remarks:

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

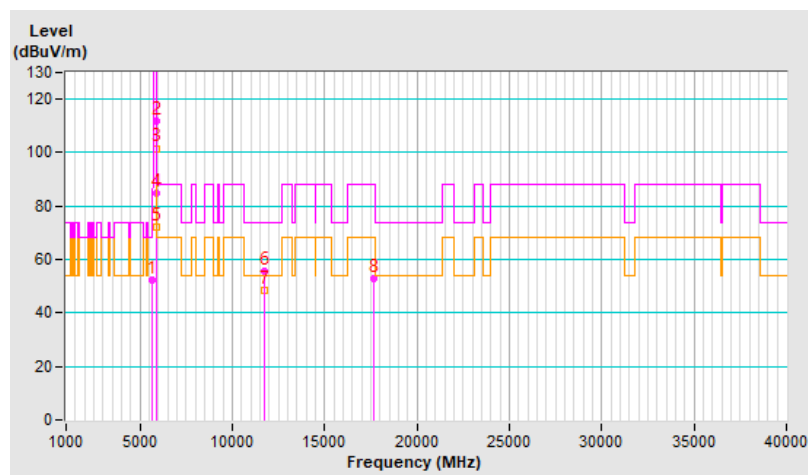


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	52.3 PK	68.2	-15.9	1.03 V	155	46.2	6.1
2	*5885.00	111.7 PK			1.03 V	155	104.9	6.8
3	*5885.00	101.6 AV			1.03 V	155	94.8	6.8
4	#5895.00	84.7 PK	110.2	-25.5	1.03 V	155	77.8	6.9
5	#5895.00	72.2 AV	90.2	-18.0	1.03 V	155	65.3	6.9
6	11770.00	55.6 PK	74.0	-18.4	1.44 V	11	39.4	16.2
7	11770.00	48.3 AV	54.0	-5.7	1.44 V	11	32.1	16.2
8	#17655.00	52.7 PK	88.2	-35.5	1.56 V	41	28.1	24.6

Remarks:

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

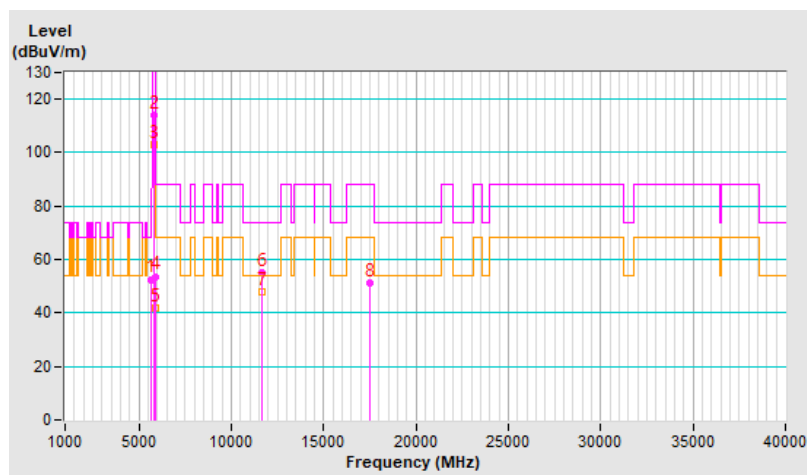


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	52.6 PK	68.2	-15.6	3.86 H	164	46.5	6.1
2	*5845.00	114.0 PK			3.86 H	164	107.4	6.6
3	*5845.00	103.1 AV			3.86 H	164	96.5	6.6
4	#5895.00	53.7 PK	110.2	-56.5	3.86 H	164	46.8	6.9
5	#5895.00	41.9 AV	90.2	-48.3	3.86 H	164	35.0	6.9
6	11690.00	55.2 PK	74.0	-18.8	1.55 H	55	38.5	16.7
7	11690.00	47.7 AV	54.0	-6.3	1.55 H	55	31.0	16.7
8	#17535.00	51.4 PK	88.2	-36.8	1.67 H	53	28.0	23.4

Remarks:

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

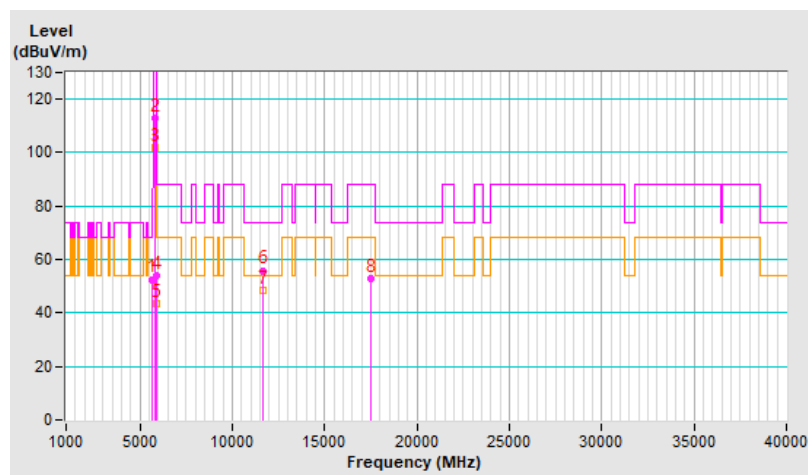


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	52.6 PK	68.2	-15.6	1.06 V	127	46.5	6.1
2	*5845.00	112.8 PK			1.06 V	127	106.2	6.6
3	*5845.00	101.9 AV			1.06 V	127	95.3	6.6
4	#5895.00	53.9 PK	110.2	-56.3	1.06 V	127	47.0	6.9
5	#5895.00	43.4 AV	90.2	-46.8	1.06 V	127	36.5	6.9
6	11690.00	55.9 PK	74.0	-18.1	1.50 V	10	39.2	16.7
7	11690.00	48.5 AV	54.0	-5.5	1.50 V	10	31.8	16.7
8	#17535.00	52.7 PK	88.2	-35.5	1.50 V	40	29.3	23.4

Remarks:

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

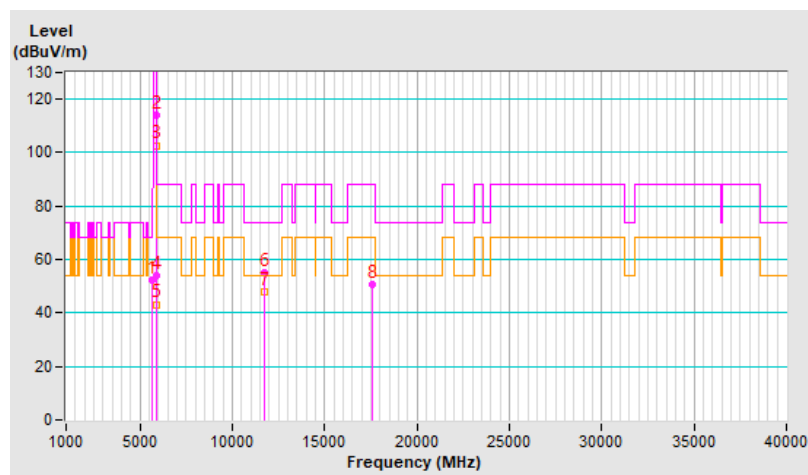


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	52.3 PK	68.2	-15.9	3.83 H	166	46.2	6.1
2	*5865.00	114.2 PK			3.83 H	166	107.5	6.7
3	*5865.00	102.7 AV			3.83 H	166	96.0	6.7
4	#5895.00	53.8 PK	110.2	-56.4	3.83 H	166	46.9	6.9
5	#5895.00	43.2 AV	90.2	-47.0	3.83 H	166	36.3	6.9
6	11730.00	55.1 PK	74.0	-18.9	1.62 H	56	38.6	16.5
7	11730.00	47.8 AV	54.0	-6.2	1.62 H	56	31.3	16.5
8	#17595.00	50.6 PK	88.2	-37.6	1.71 H	54	26.5	24.1

Remarks:

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

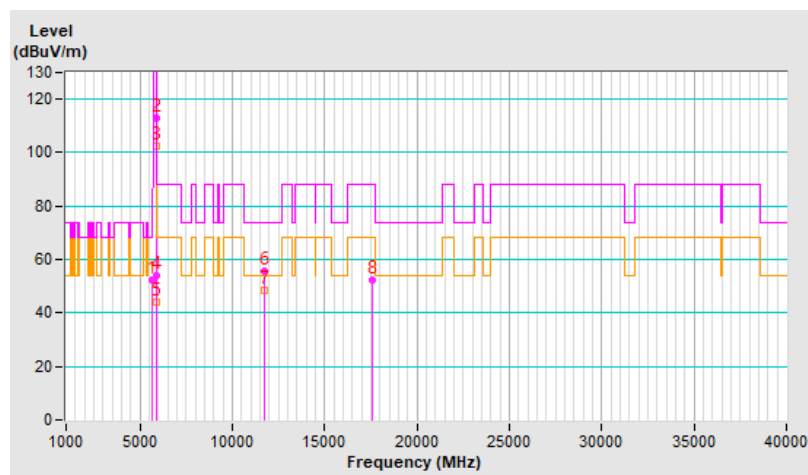


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	52.3 PK	68.2	-15.9	1.03 V	127	46.2	6.1
2	*5865.00	113.0 PK			1.03 V	127	106.3	6.7
3	*5865.00	102.2 AV			1.03 V	127	95.5	6.7
4	#5895.00	53.8 PK	110.2	-56.4	1.03 V	127	46.9	6.9
5	#5895.00	43.8 AV	90.2	-46.4	1.03 V	127	36.9	6.9
6	11730.00	55.7 PK	74.0	-18.3	1.44 V	17	39.2	16.5
7	11730.00	48.5 AV	54.0	-5.5	1.44 V	17	32.0	16.5
8	#17595.00	52.4 PK	88.2	-35.8	1.48 V	24	28.3	24.1

Remarks:

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

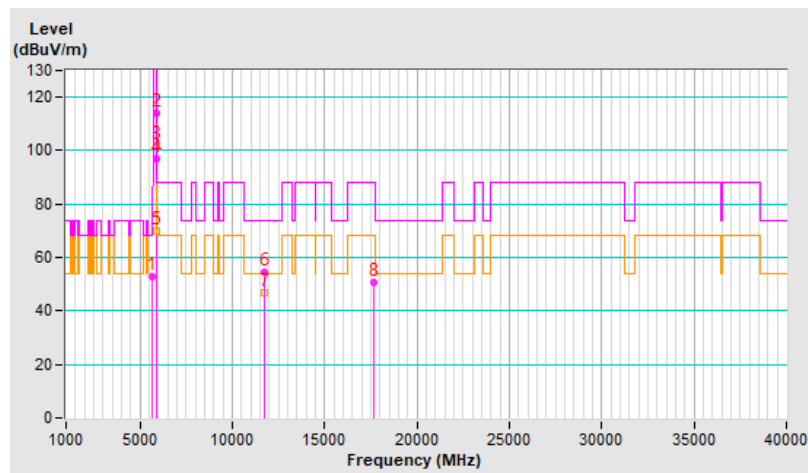


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	52.7 PK	68.2	-15.5	3.74 H	167	46.6	6.1
2	*5885.00	114.1 PK			3.74 H	167	107.3	6.8
3	*5885.00	102.1 AV			3.74 H	167	95.3	6.8
4	#5895.00	96.9 PK	110.2	-13.3	3.74 H	167	90.0	6.9
5	#5895.00	69.8 AV	90.2	-20.4	3.74 H	167	62.9	6.9
6	11770.00	54.5 PK	74.0	-19.5	1.53 H	41	38.3	16.2
7	11770.00	47.0 AV	54.0	-7.0	1.53 H	41	30.8	16.2
8	#17655.00	50.8 PK	88.2	-37.4	1.65 H	64	26.2	24.6

Remarks:

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

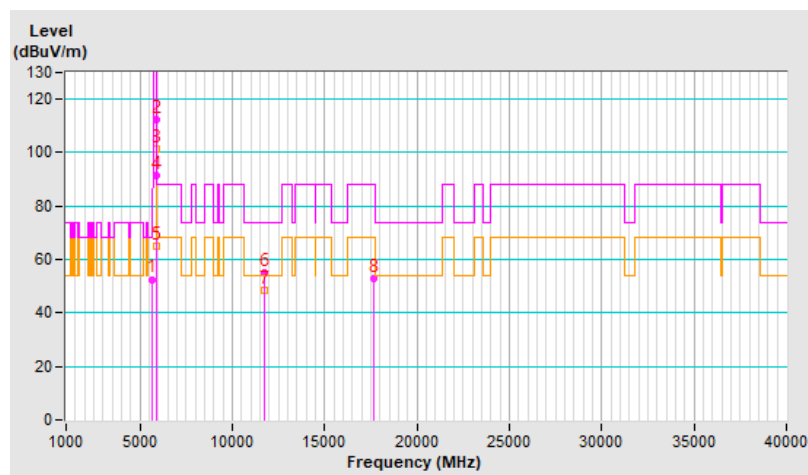


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	52.6 PK	68.2	-15.6	1.04 V	157	46.5	6.1
2	*5885.00	112.5 PK			1.04 V	157	105.7	6.8
3	*5885.00	101.1 AV			1.04 V	157	94.3	6.8
4	#5895.00	91.6 PK	110.2	-18.6	1.04 V	157	84.7	6.9
5	#5895.00	65.2 AV	90.2	-25.0	1.04 V	157	58.3	6.9
6	11770.00	55.3 PK	74.0	-18.7	1.44 V	11	39.1	16.2
7	11770.00	48.2 AV	54.0	-5.8	1.44 V	11	32.0	16.2
8	#17655.00	52.7 PK	88.2	-35.5	1.57 V	43	28.1	24.6

Remarks:

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

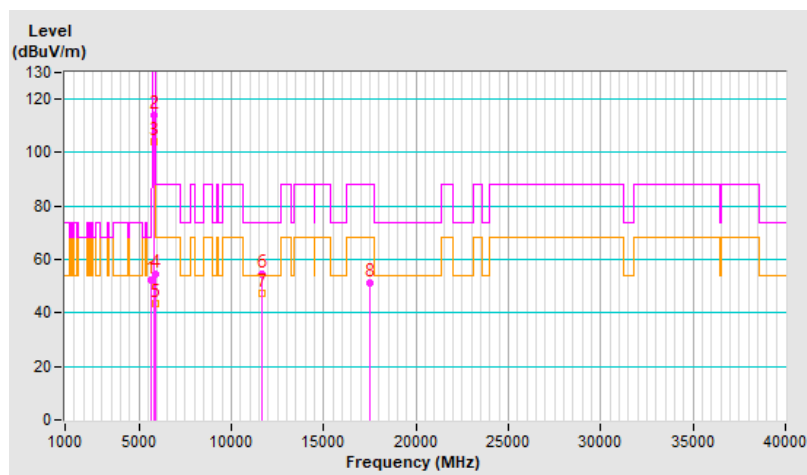


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	52.2 PK	68.2	-16.0	3.34 H	175	46.1	6.1
2	*5845.00	113.8 PK			3.34 H	175	107.2	6.6
3	*5845.00	104.3 AV			3.34 H	175	97.7	6.6
4	#5895.00	54.4 PK	110.2	-55.8	3.34 H	175	47.5	6.9
5	#5895.00	43.7 AV	90.2	-46.5	3.34 H	175	36.8	6.9
6	11690.00	54.7 PK	74.0	-19.3	1.55 H	37	38.0	16.7
7	11690.00	47.3 AV	54.0	-6.7	1.55 H	37	30.6	16.7
8	#17535.00	51.1 PK	88.2	-37.1	1.60 H	62	27.7	23.4

Remarks:

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

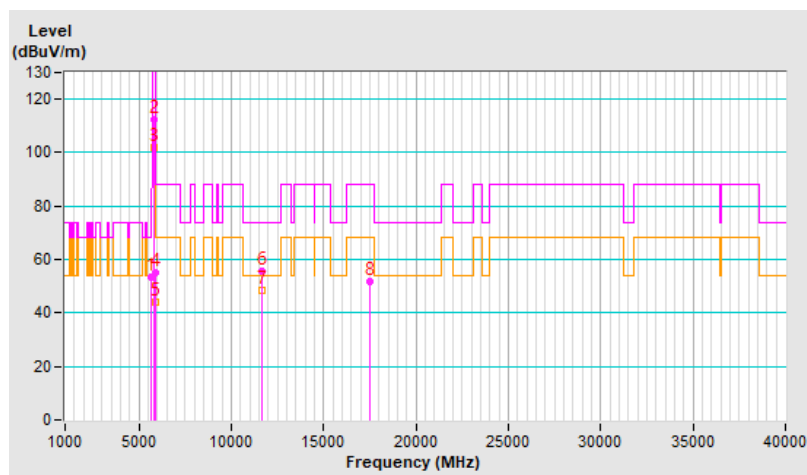


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	53.2 PK	68.2	-15.0	1.09 V	159	47.1	6.1
2	*5845.00	112.1 PK			1.09 V	159	105.5	6.6
3	*5845.00	101.7 AV			1.09 V	159	95.1	6.6
4	#5895.00	55.1 PK	110.2	-55.1	1.09 V	159	48.2	6.9
5	#5895.00	43.8 AV	90.2	-46.4	1.09 V	159	36.9	6.9
6	11690.00	55.4 PK	74.0	-18.6	1.44 V	13	38.7	16.7
7	11690.00	48.2 AV	54.0	-5.8	1.44 V	13	31.5	16.7
8	#17535.00	51.6 PK	88.2	-36.6	1.53 V	36	28.2	23.4

Remarks:

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

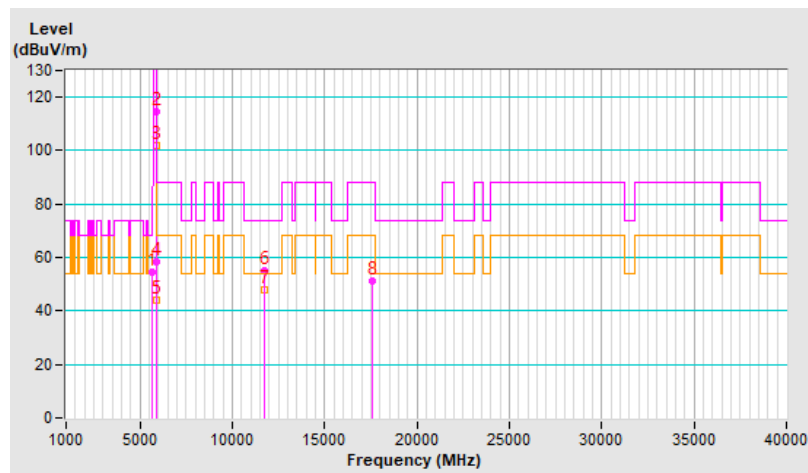


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	54.7 PK	68.2	-13.5	3.71 H	179	48.6	6.1
2	*5865.00	114.5 PK			3.71 H	179	107.8	6.7
3	*5865.00	102.1 AV			3.71 H	179	95.4	6.7
4	#5895.00	58.6 PK	110.2	-51.6	3.71 H	179	51.7	6.9
5	#5895.00	43.8 AV	90.2	-46.4	3.71 H	179	36.9	6.9
6	11730.00	55.0 PK	74.0	-19.0	1.62 H	64	38.5	16.5
7	11730.00	47.7 AV	54.0	-6.3	1.62 H	64	31.2	16.5
8	#17595.00	51.4 PK	88.2	-36.8	1.61 H	59	27.3	24.1

Remarks:

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

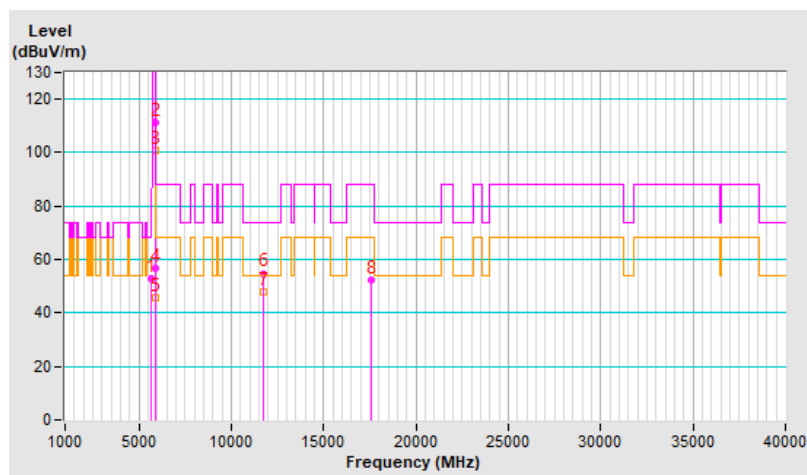


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	52.8 PK	68.2	-15.4	1.11 V	157	46.7	6.1
2	*5865.00	111.5 PK			1.11 V	157	104.8	6.7
3	*5865.00	101.0 AV			1.11 V	157	94.3	6.7
4	#5895.00	56.5 PK	110.2	-53.7	1.11 V	157	49.6	6.9
5	#5895.00	45.6 AV	90.2	-44.6	1.11 V	157	38.7	6.9
6	11730.00	54.8 PK	74.0	-19.2	1.46 V	16	38.3	16.5
7	11730.00	47.9 AV	54.0	-6.1	1.46 V	16	31.4	16.5
8	#17595.00	52.5 PK	88.2	-35.7	1.50 V	20	28.4	24.1

Remarks:

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

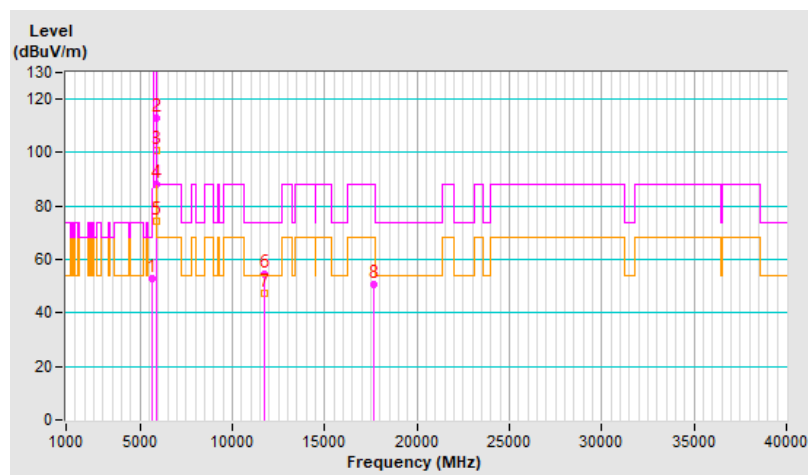


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	52.9 PK	68.2	-15.3	3.98 H	167	46.8	6.1
2	*5885.00	112.9 PK			3.98 H	167	106.1	6.8
3	*5885.00	100.9 AV			3.98 H	167	94.1	6.8
4	#5895.00	88.1 PK	110.2	-22.1	3.98 H	167	81.2	6.9
5	#5895.00	74.1 AV	90.2	-16.1	3.98 H	167	67.2	6.9
6	11770.00	54.6 PK	74.0	-19.4	1.53 H	51	38.4	16.2
7	11770.00	47.5 AV	54.0	-6.5	1.53 H	51	31.3	16.2
8	#17655.00	50.9 PK	88.2	-37.3	1.61 H	70	26.3	24.6

Remarks:

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

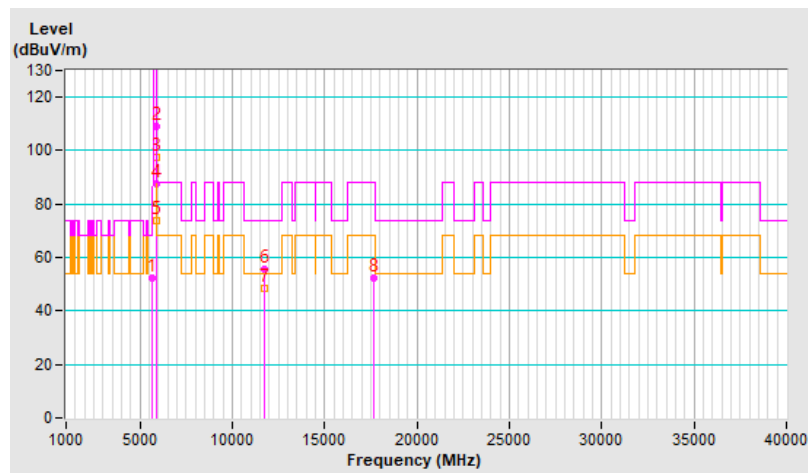


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 61 % RH
Tested By	Willy Lin		

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	#5650.00	52.3 PK	68.2	-15.9	1.02 V	156	46.2	6.1
2	*5885.00	108.9 PK			1.02 V	156	102.1	6.8
3	*5885.00	97.7 AV			1.02 V	156	90.9	6.8
4	#5895.00	87.8 PK	110.2	-22.4	1.02 V	156	80.9	6.9
5	#5895.00	73.9 AV	90.2	-16.3	1.02 V	156	67.0	6.9
6	11770.00	55.7 PK	74.0	-18.3	1.49 V	9	39.5	16.2
7	11770.00	48.3 AV	54.0	-5.7	1.49 V	9	32.1	16.2
8	#17655.00	52.3 PK	88.2	-35.9	1.49 V	25	27.7	24.6

Remarks:

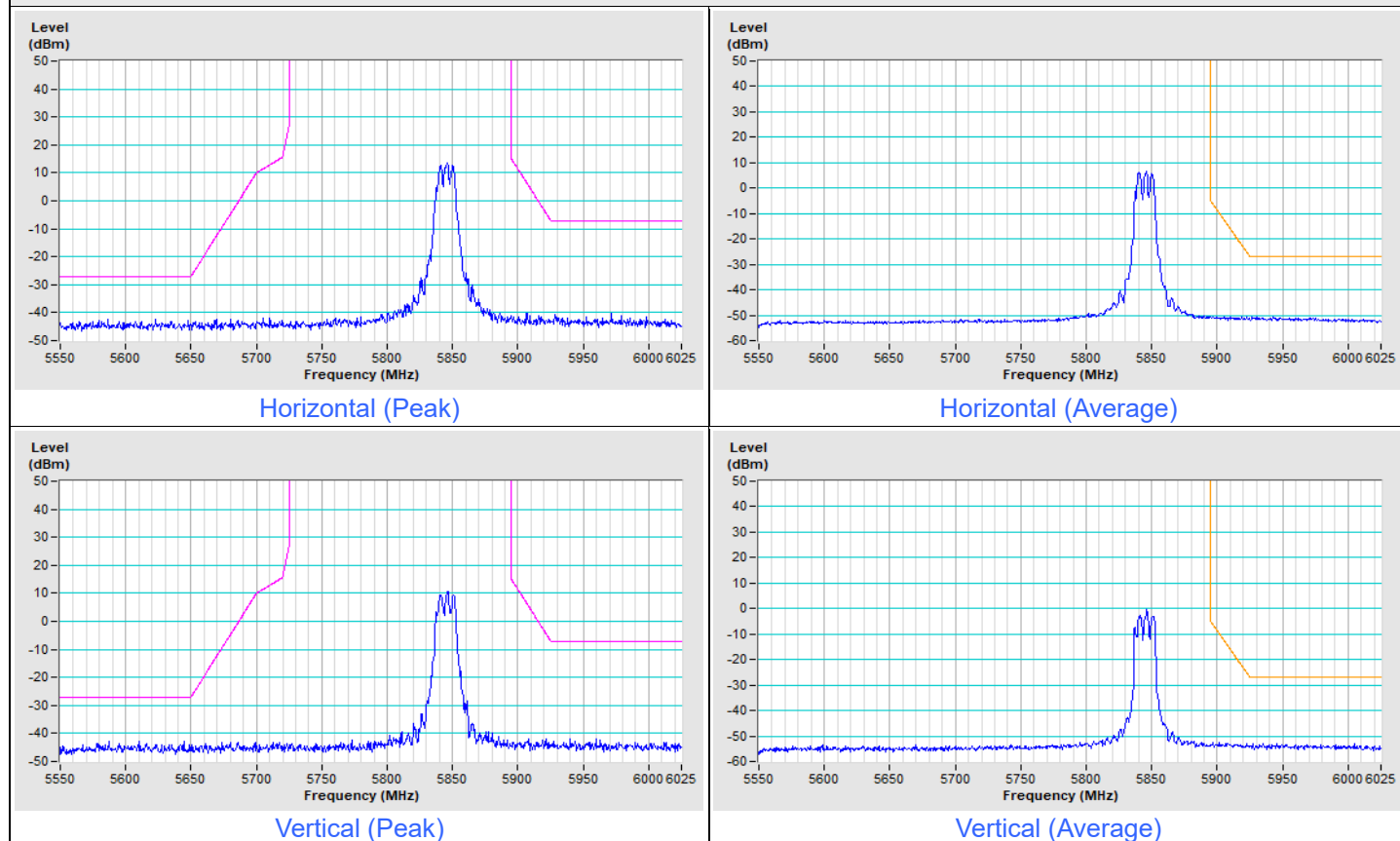
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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



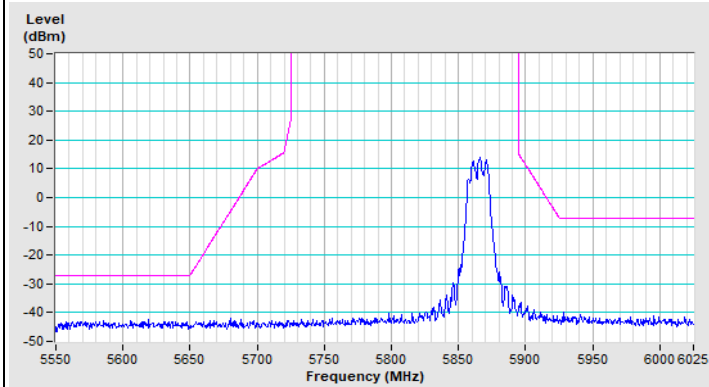
Plot of Band Edge

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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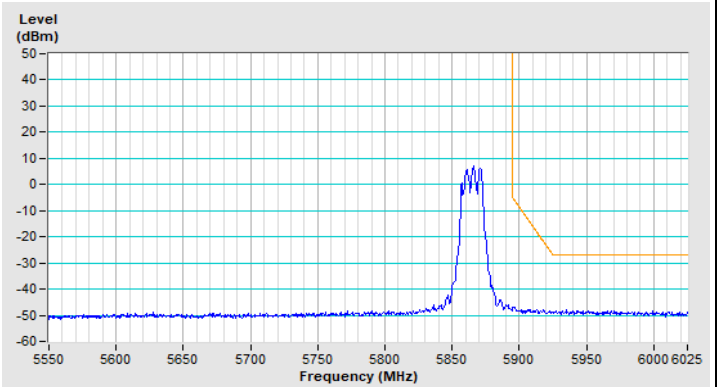
802.11a Channel 169



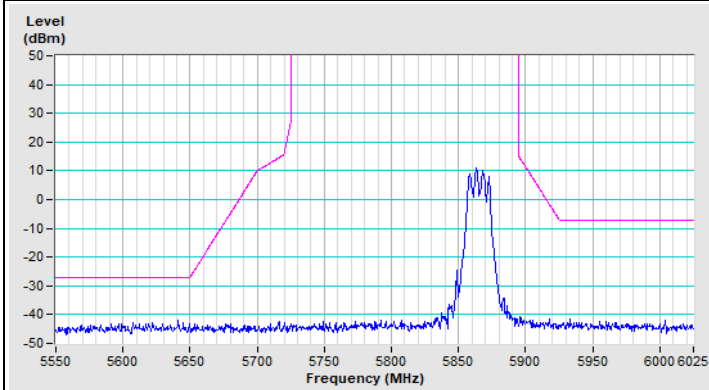
802.11a Channel 173



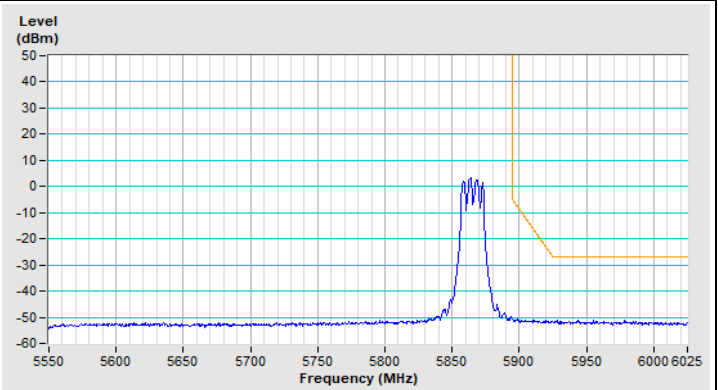
Horizontal (Peak)



Horizontal (Average)

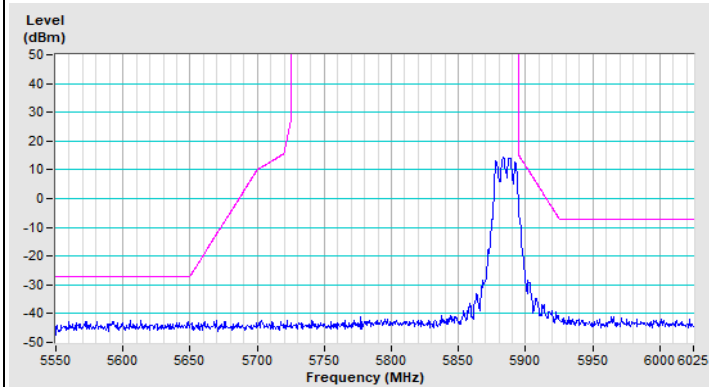


Vertical (Peak)

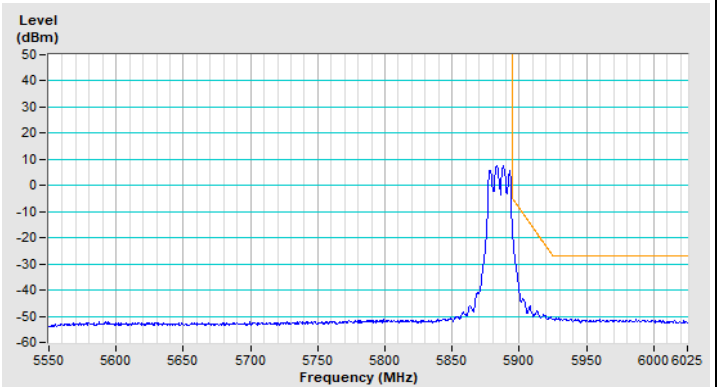


Vertical (Average)

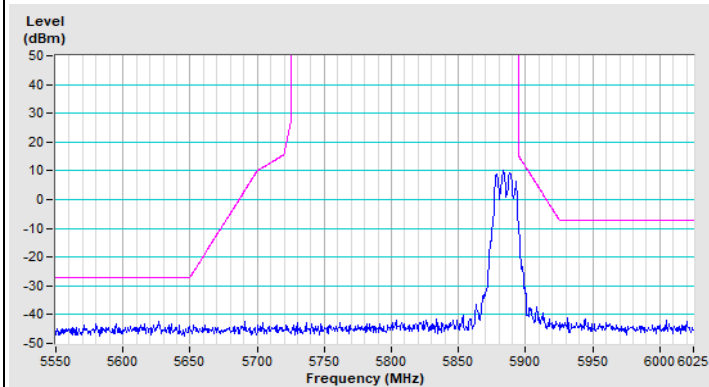
802.11a Channel 177



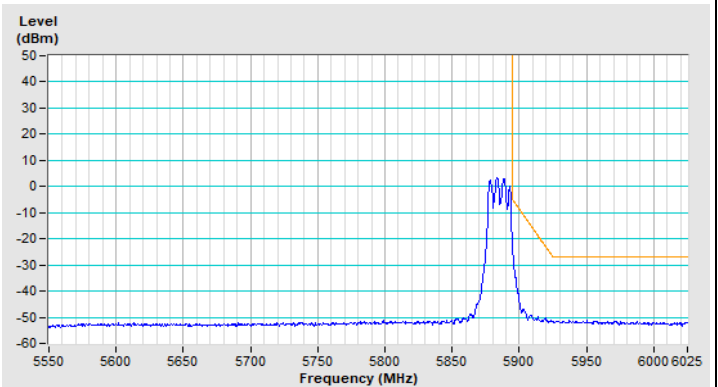
Horizontal (Peak)



Horizontal (Average)



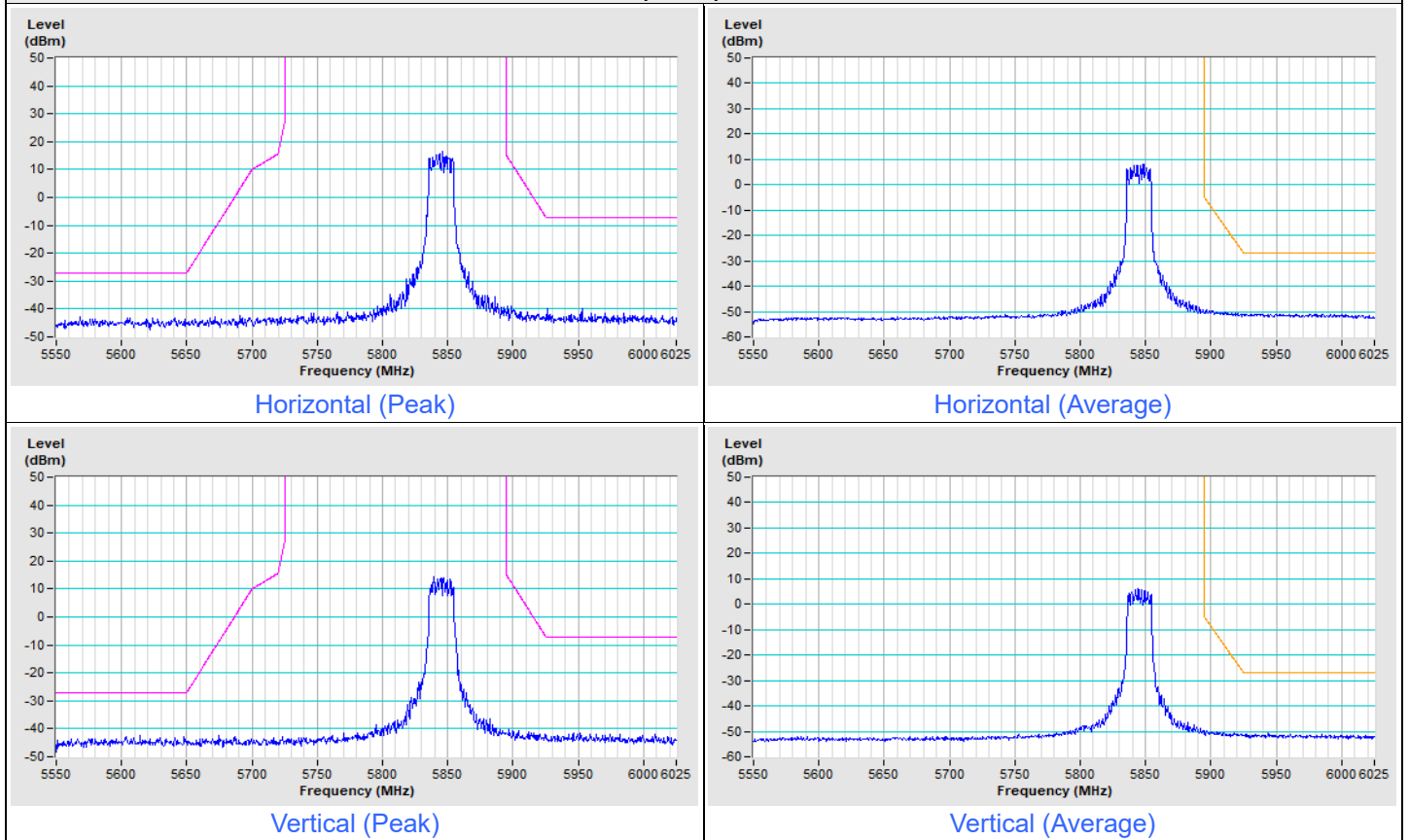
Vertical (Peak)



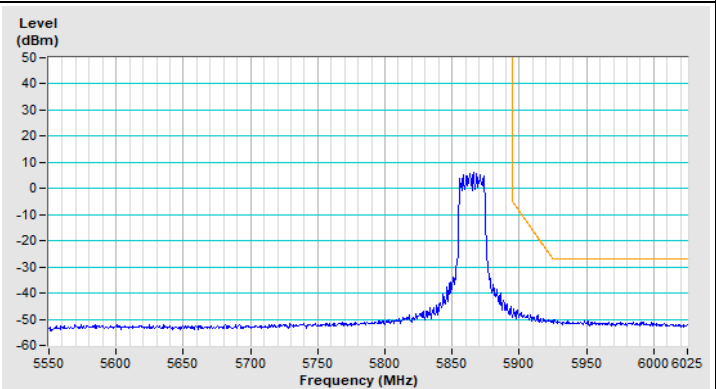
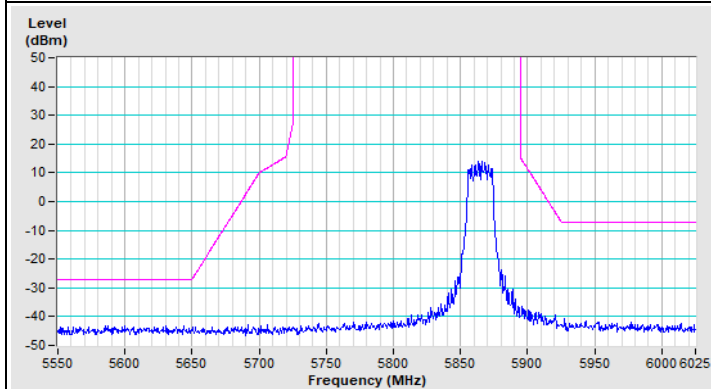
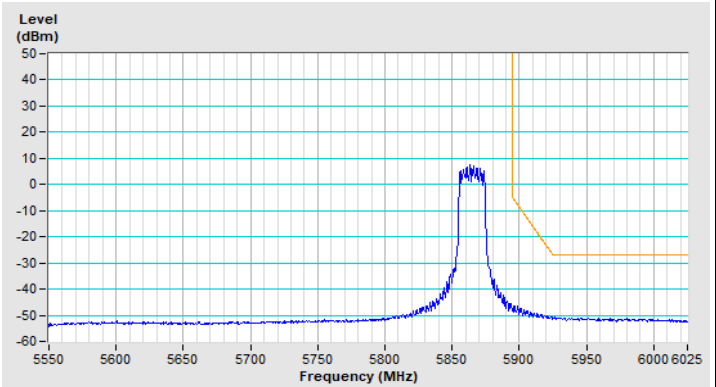
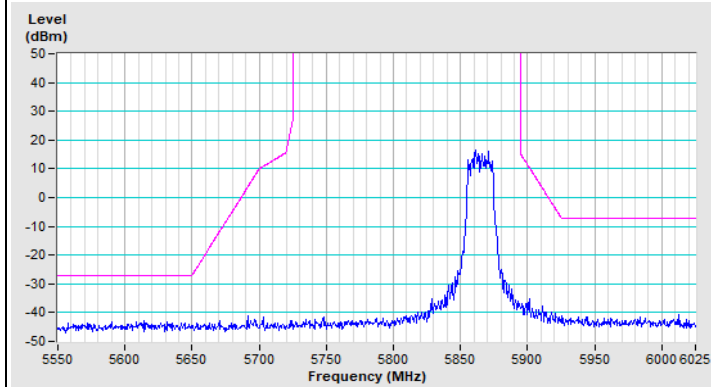
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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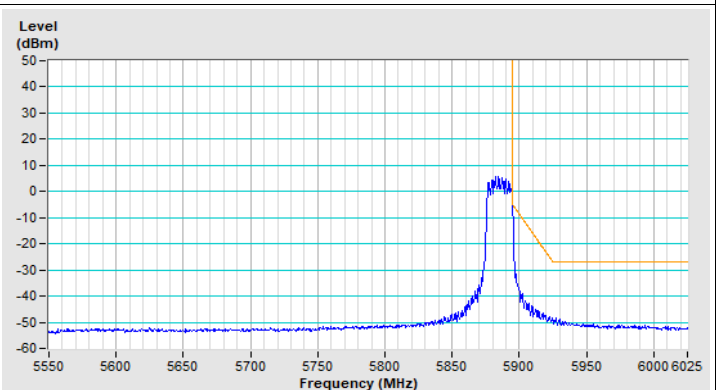
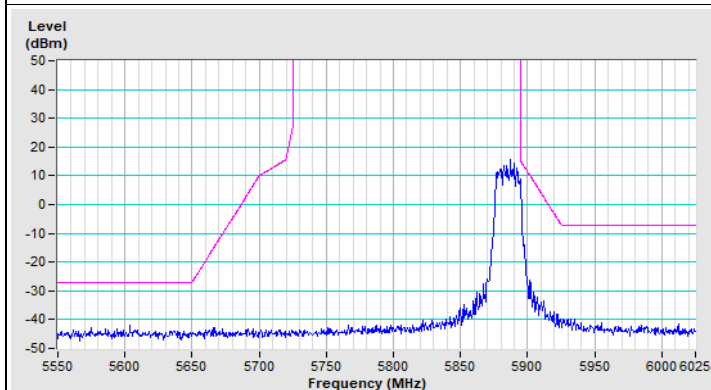
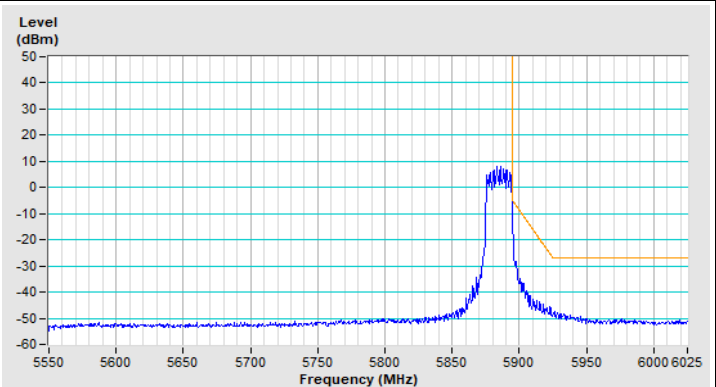
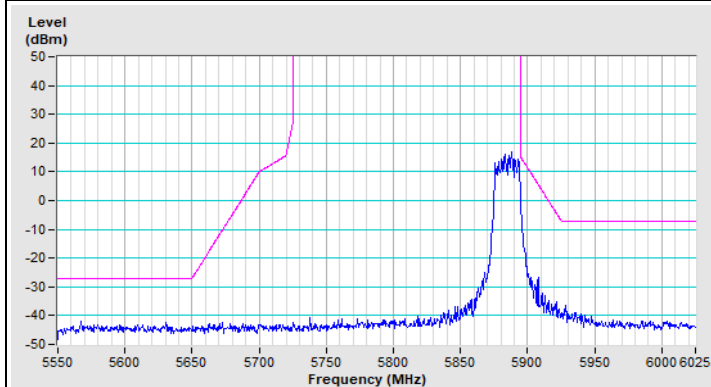
802.11ax (HE20) Channel 169



802.11ax (HE20) Channel 173

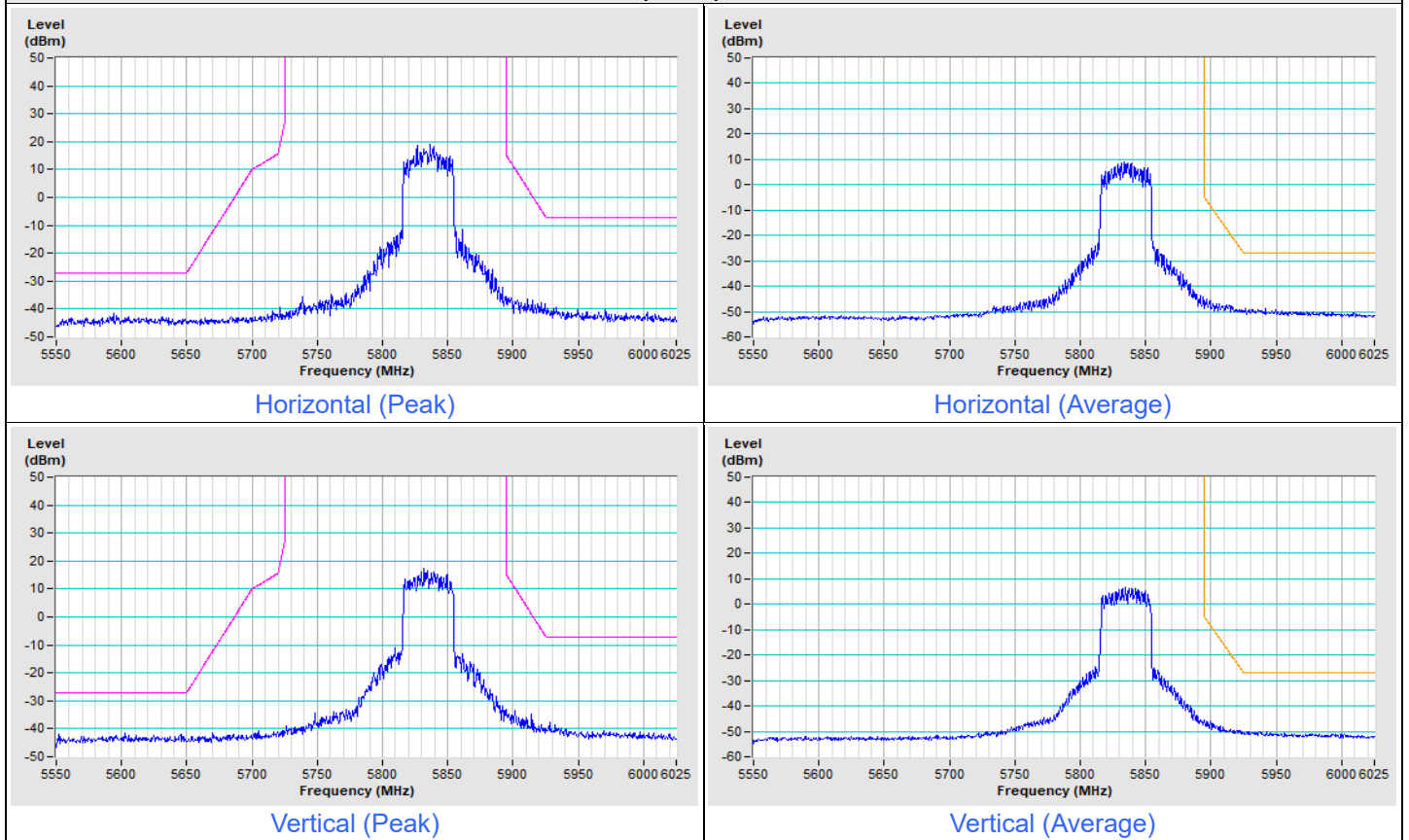


802.11ax (HE20) Channel 177

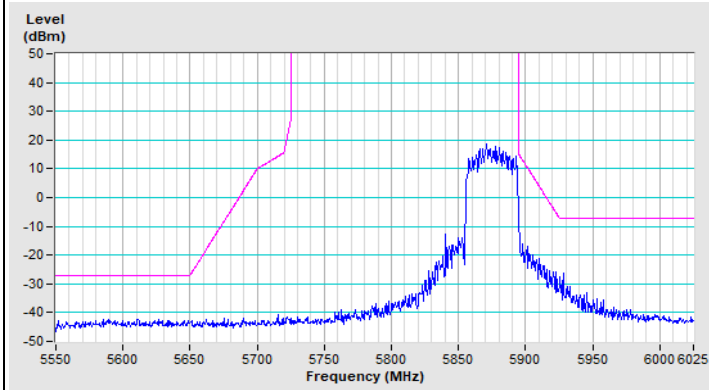


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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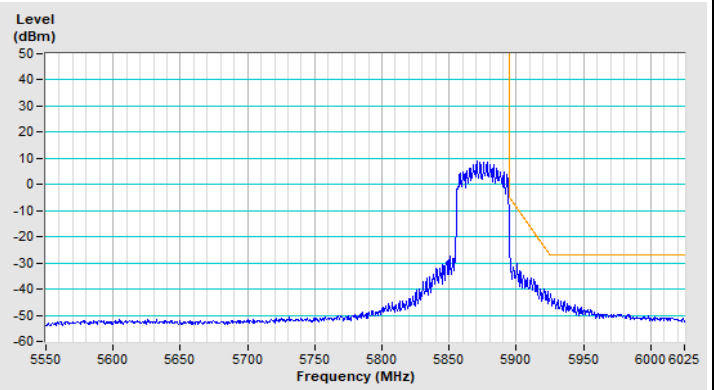
802.11ax (HE40) Channel 167



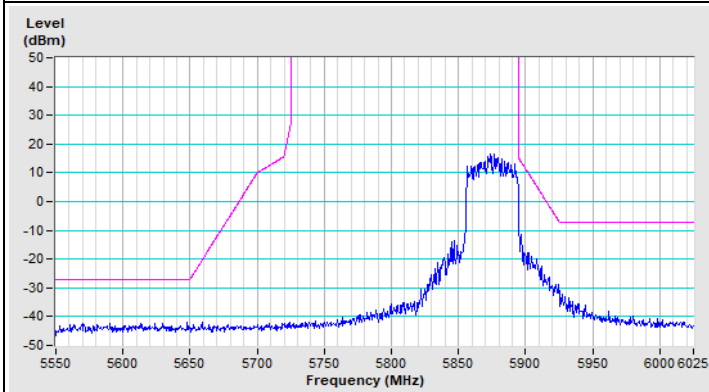
802.11ax (HE40) Channel 175



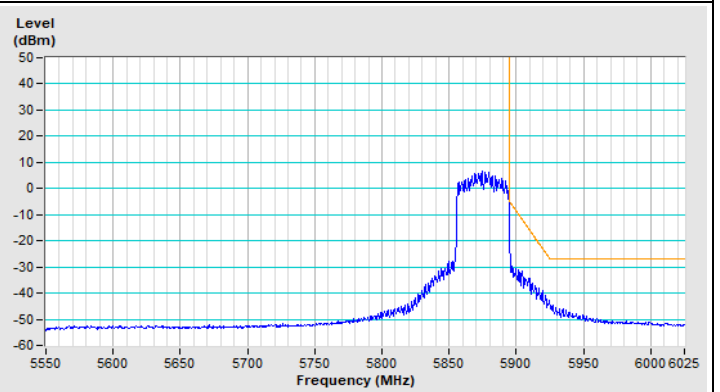
Horizontal (Peak)



Horizontal (Average)



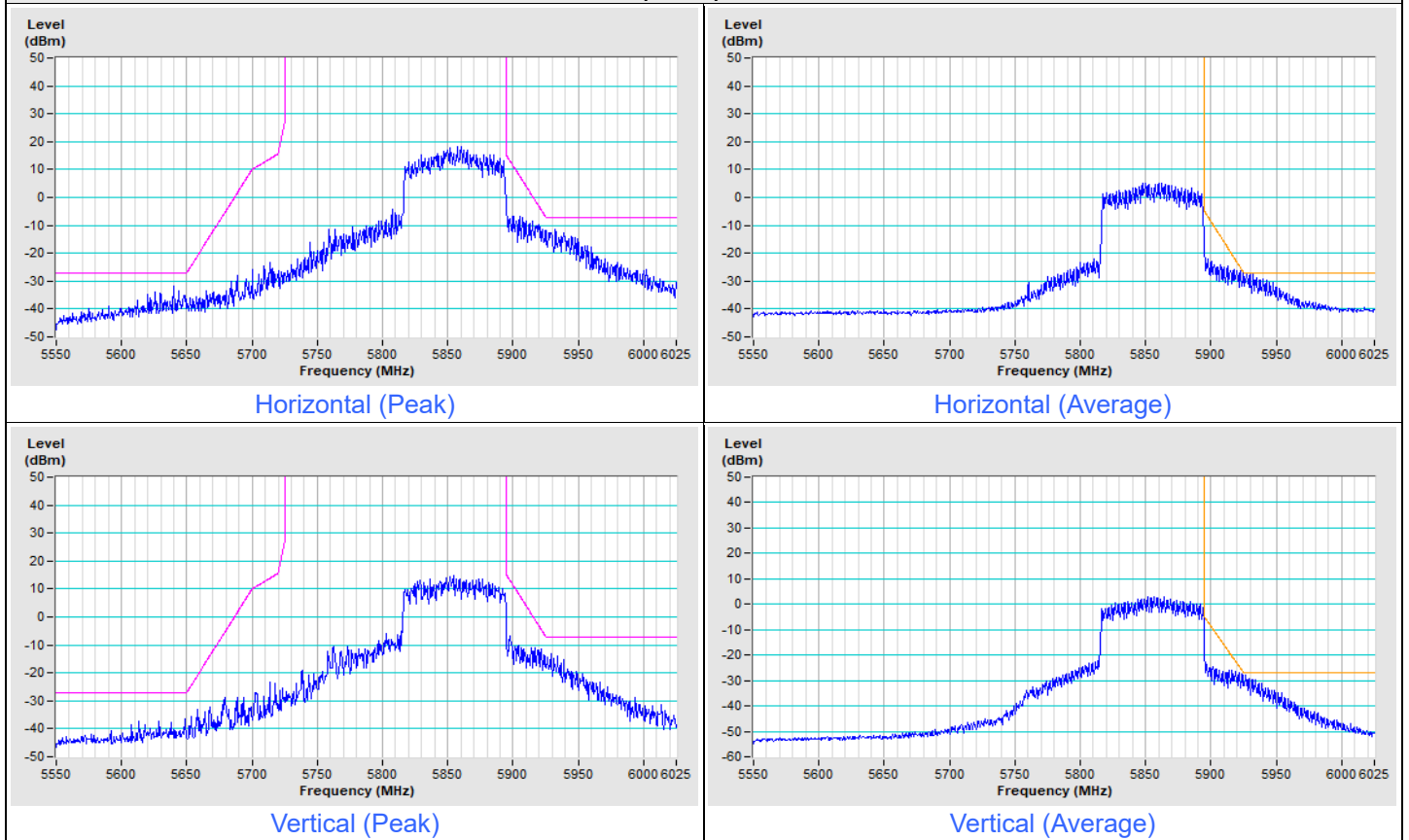
Vertical (Peak)



Vertical (Average)

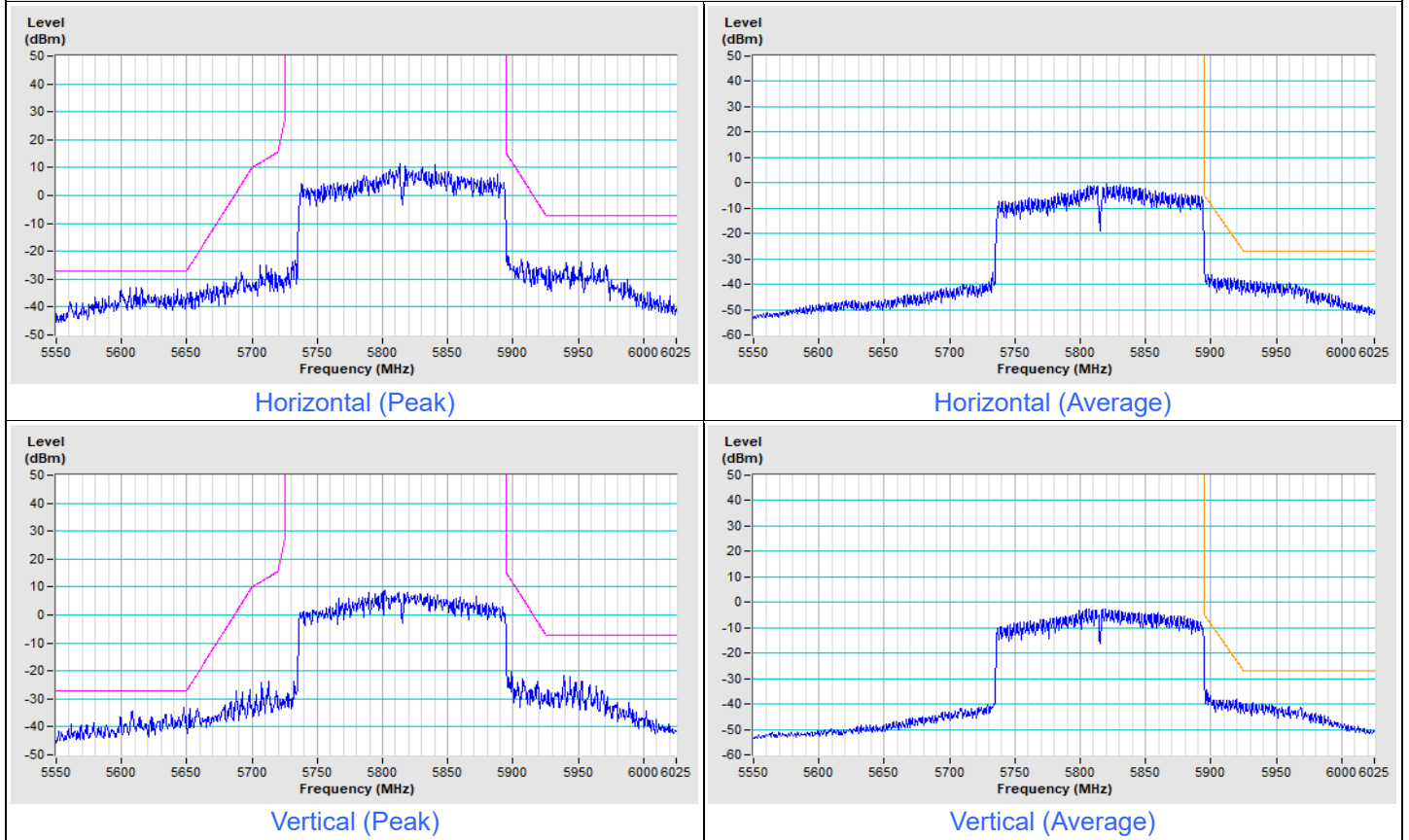
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11ax (HE80) Channel 171



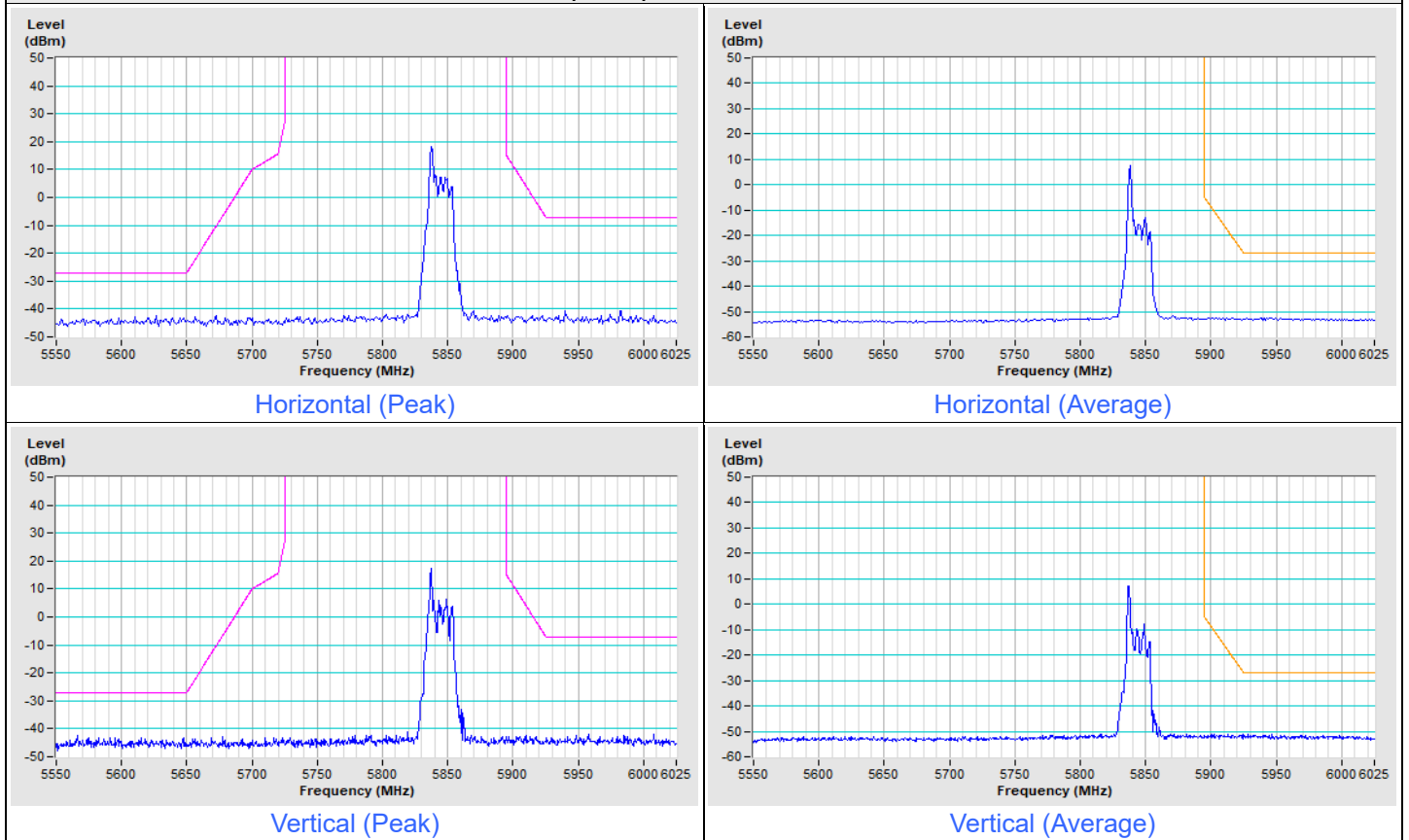
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11ax (HE160) Channel 163

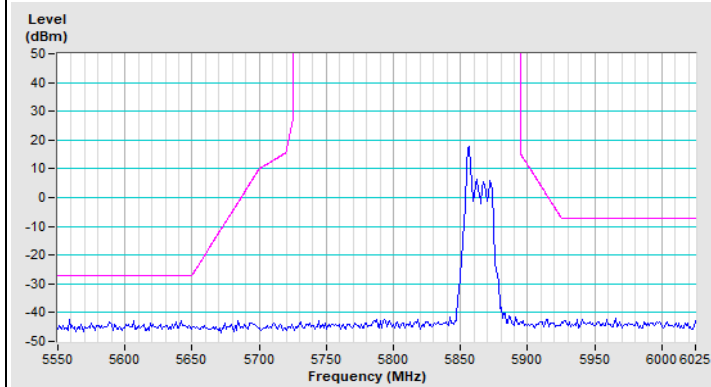


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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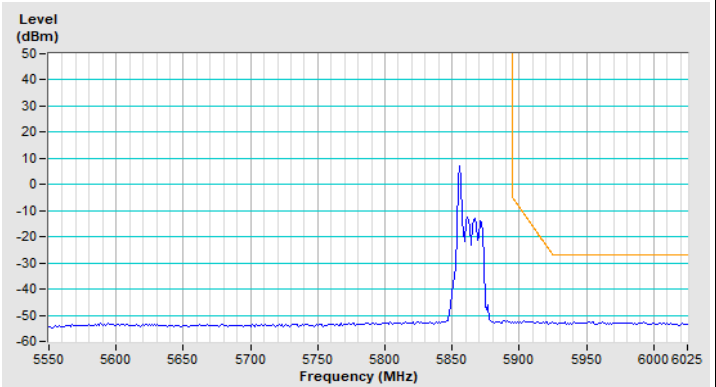
802.11ax (HE20) 26-tone RU Channel 169



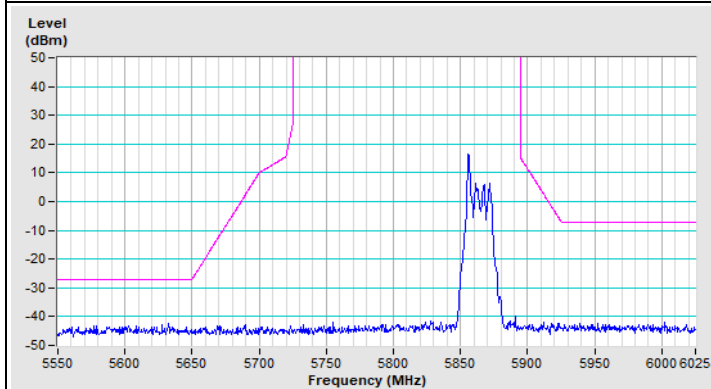
802.11ax (HE20) 26-tone RU Channel 173



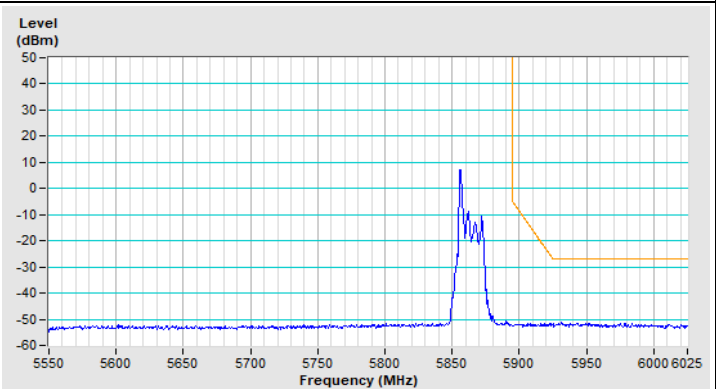
Horizontal (Peak)



Horizontal (Average)

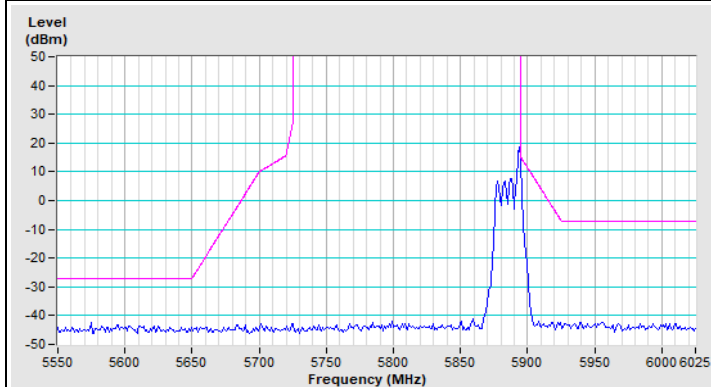


Vertical (Peak)

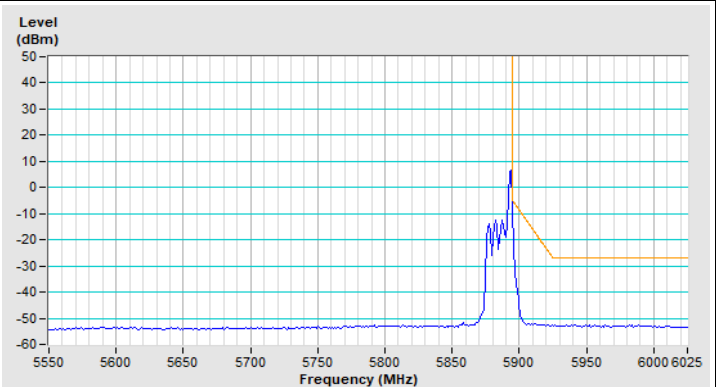


Vertical (Average)

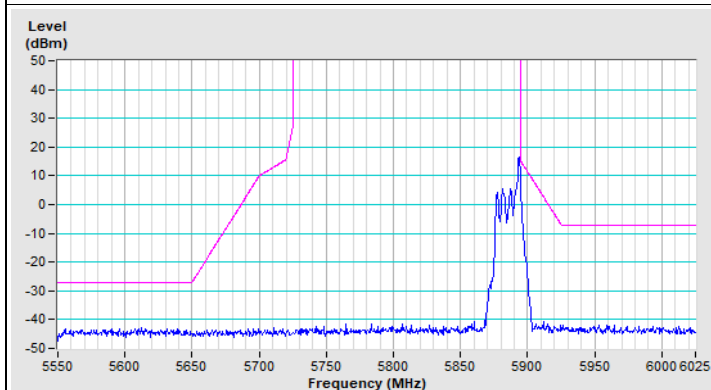
802.11ax (HE20) 26-tone RU Channel 177



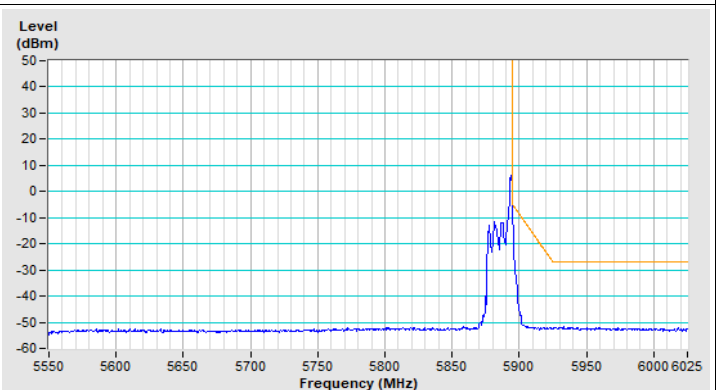
Horizontal (Peak)



Horizontal (Average)



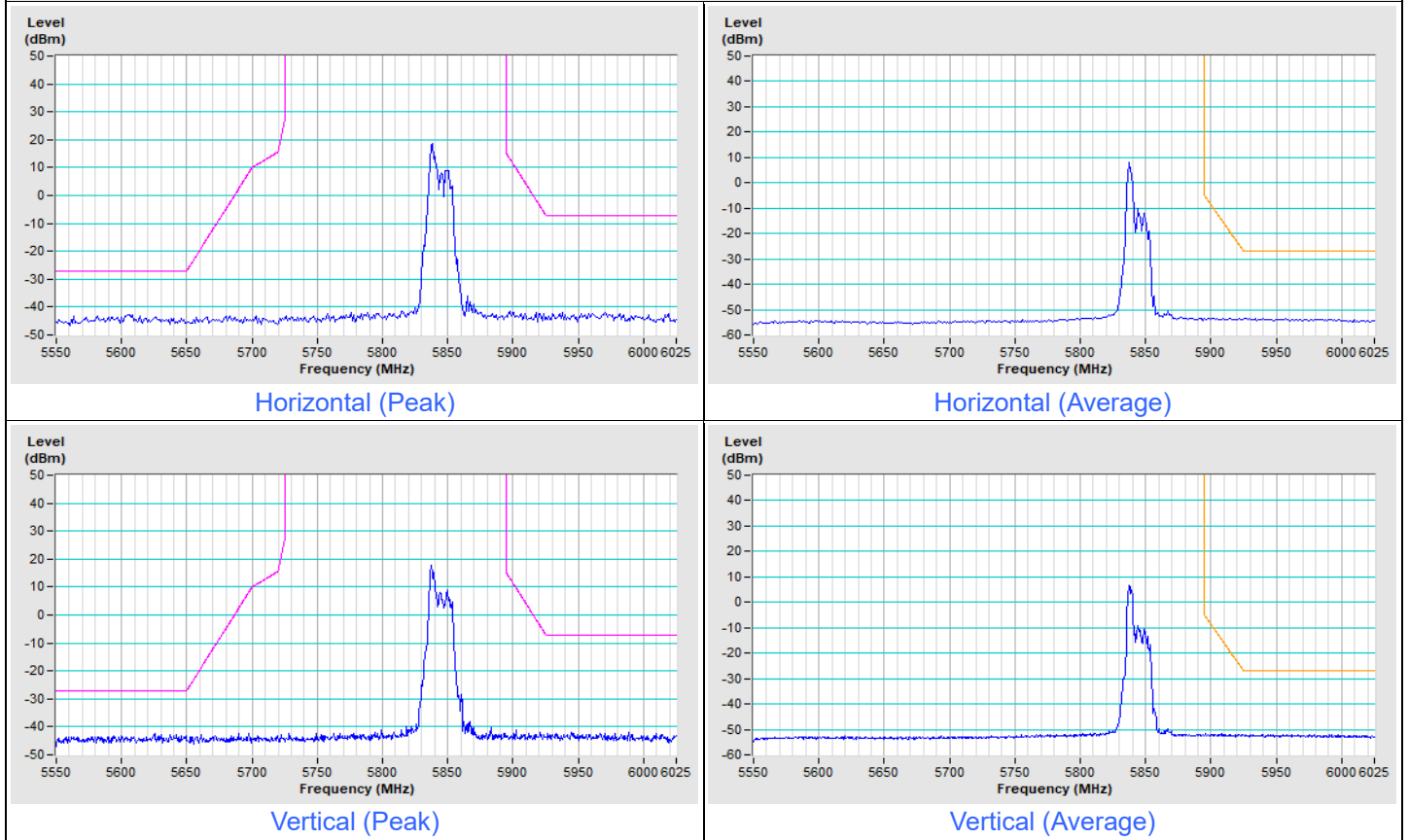
Vertical (Peak)



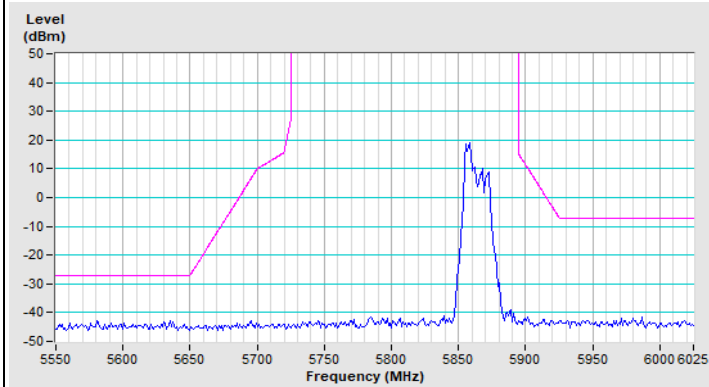
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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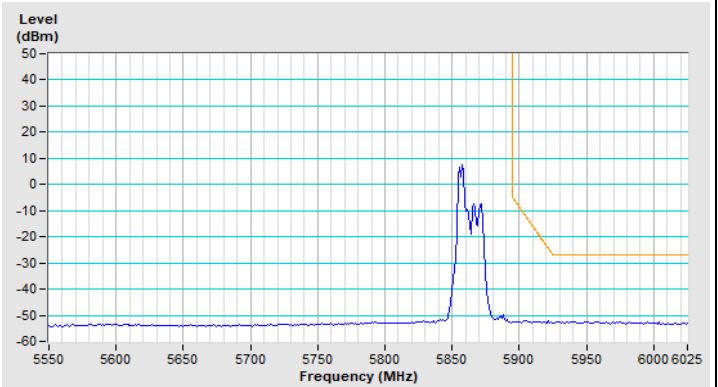
802.11ax (HE20) 52-tone RU Channel 169



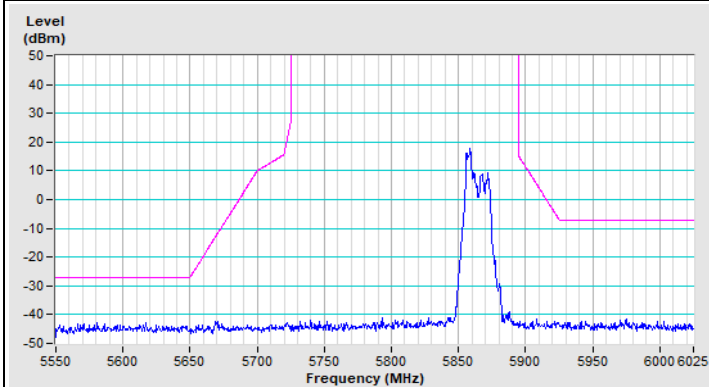
802.11ax (HE20) 52-tone RU Channel 173



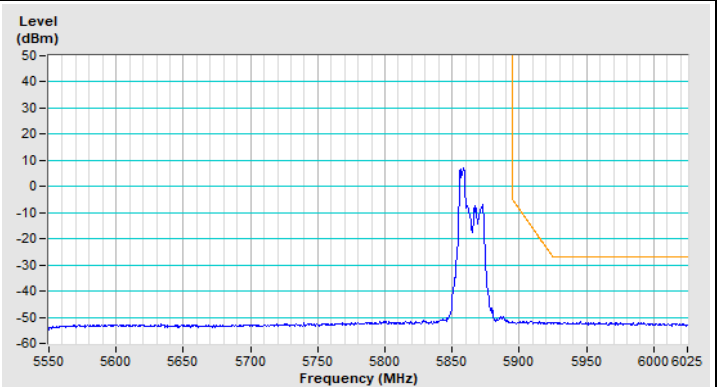
Horizontal (Peak)



Horizontal (Average)

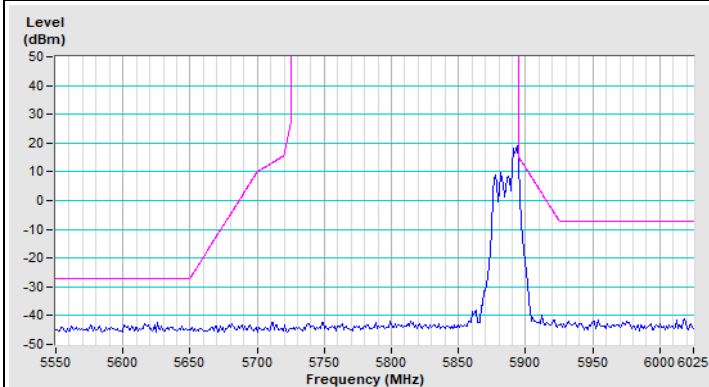


Vertical (Peak)

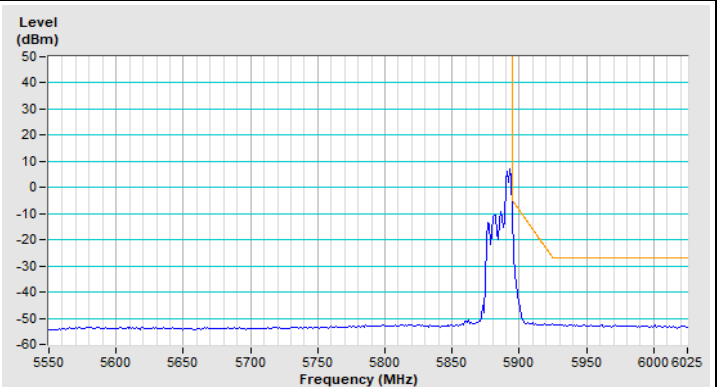


Vertical (Average)

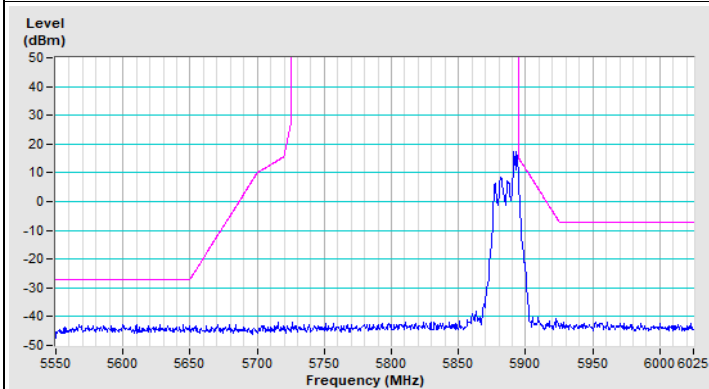
802.11ax (HE20) 52-tone RU Channel 177



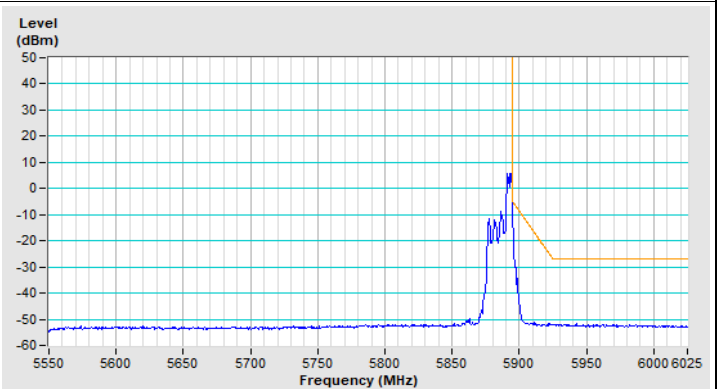
Horizontal (Peak)



Horizontal (Average)



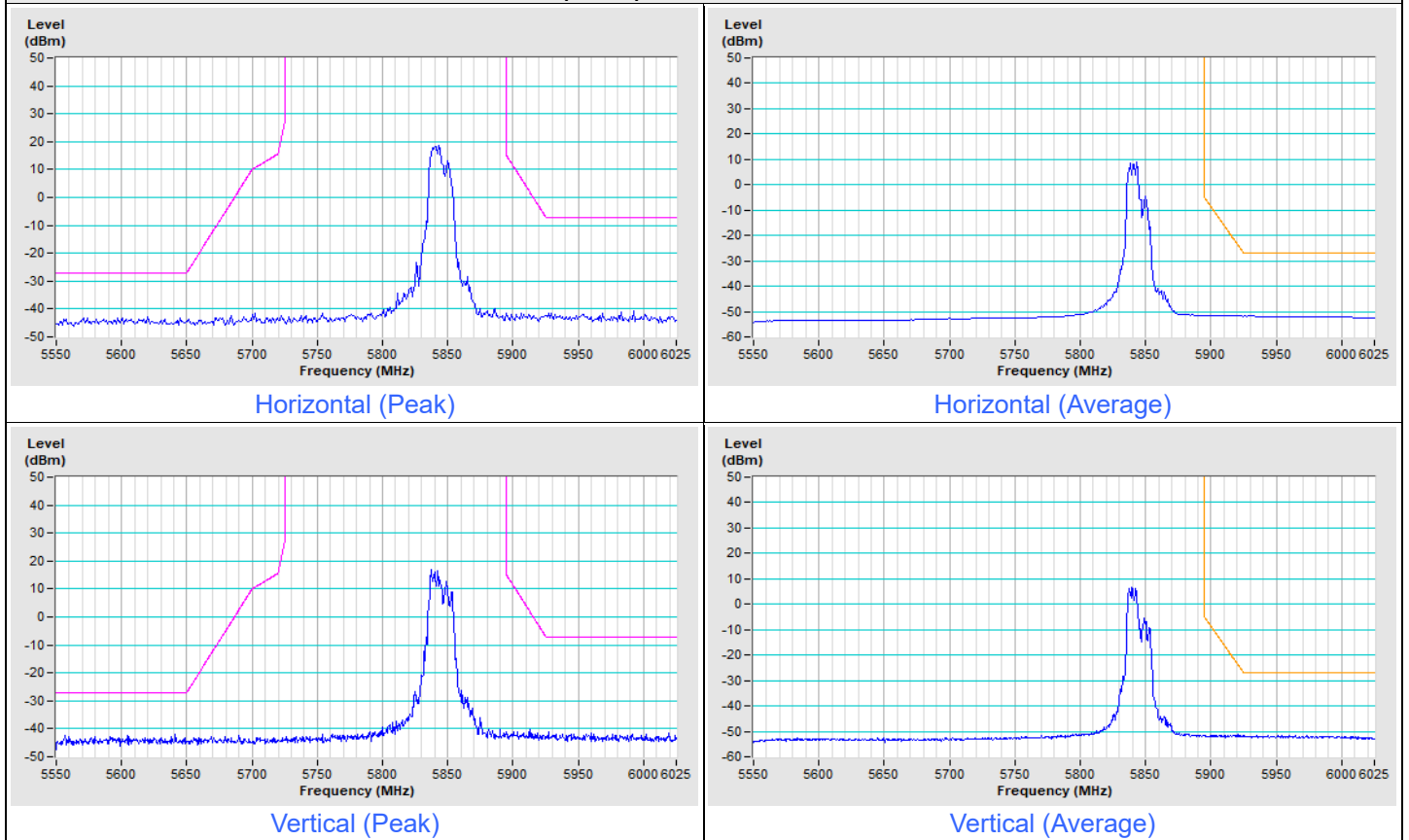
Vertical (Peak)



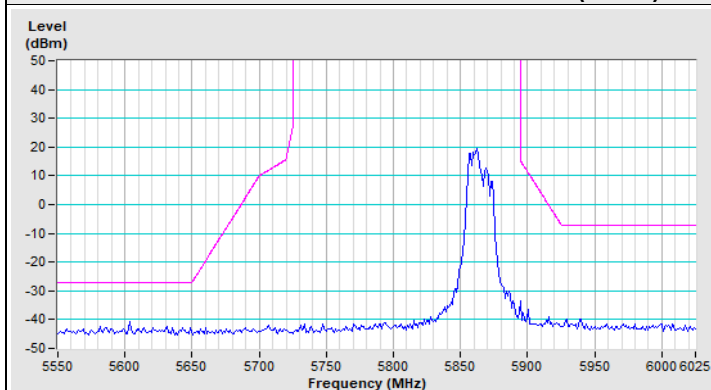
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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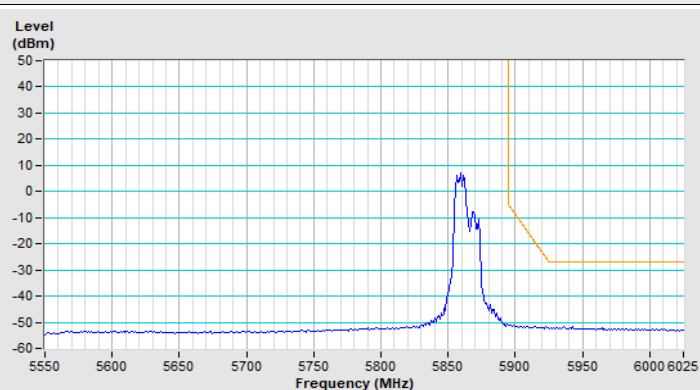
802.11ax (HE20) 106-tone RU Channel 169



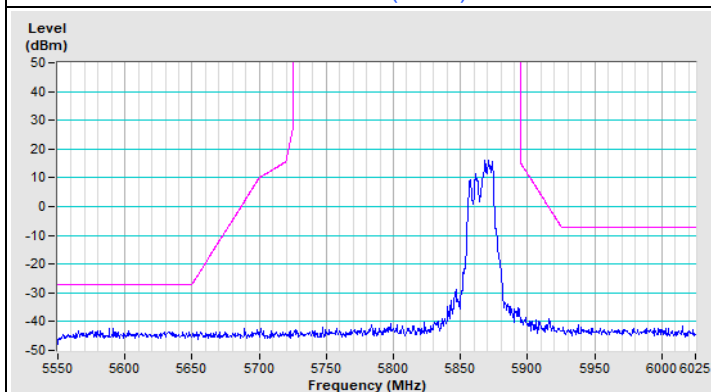
802.11ax (HE20) 106-tone RU Channel 173



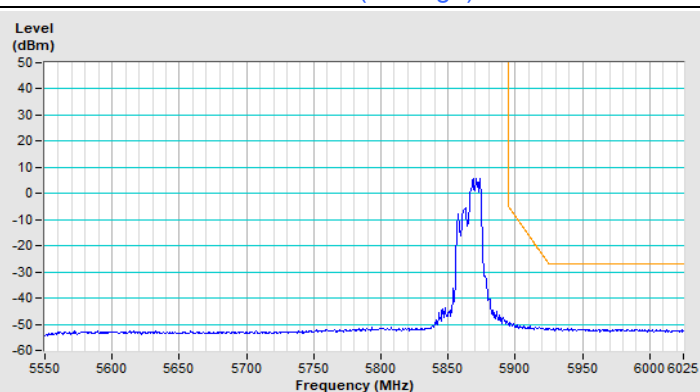
Horizontal (Peak)



Horizontal (Average)

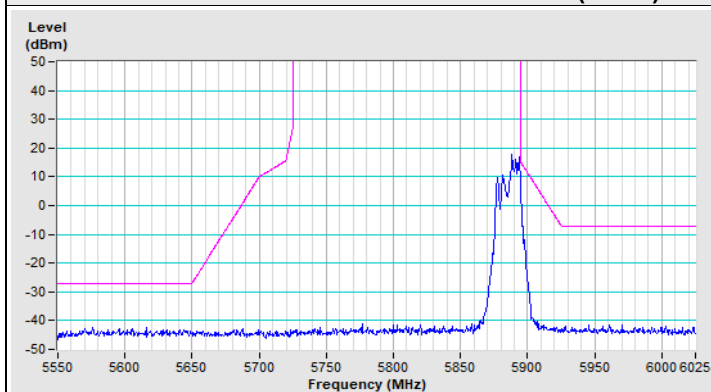


Vertical (Peak)

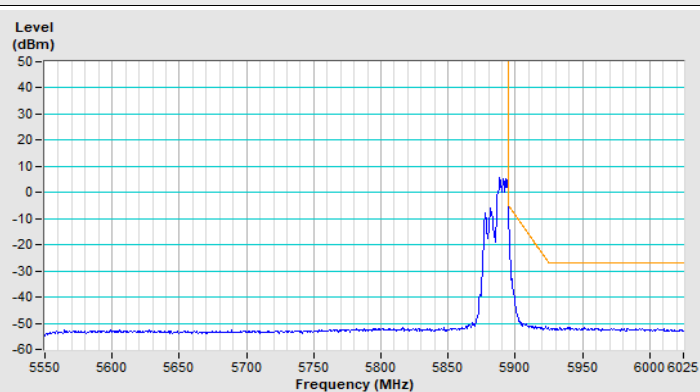


Vertical (Average)

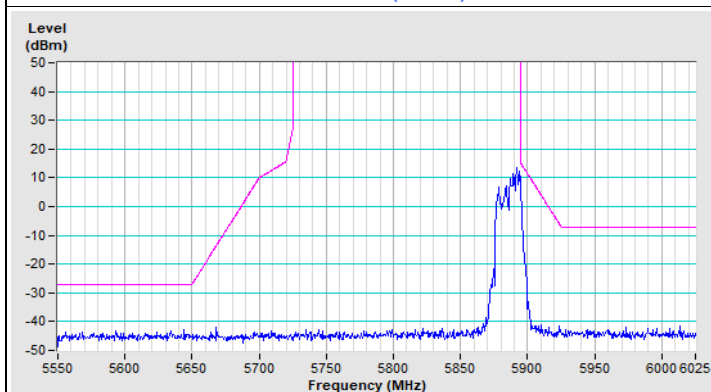
802.11ax (HE20) 106-tone RU Channel 177



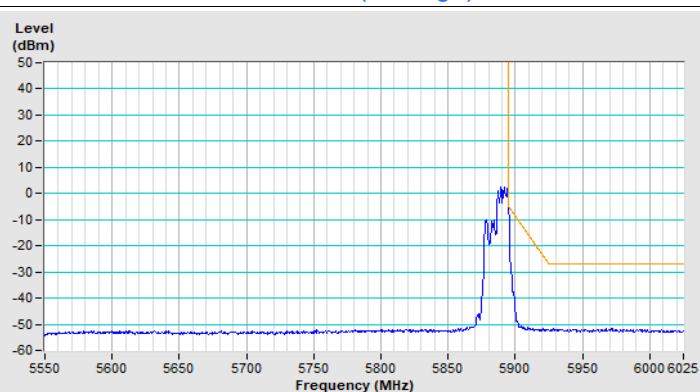
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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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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