TEST REPORT

CERTIFICATE OF CONFORMITY

Standard:	**47 CFR FCC Part 15, Subpart E (Section 15.407)**
Report No.:	RFBCKS-WTW-P22051021G-1
FCC ID:	TVE-3918T05646
Product:	Secured Wireless Access Point
Brand:	FORTINET
Model No.:	FAP-431G, FAP-433G
Variant Model:	FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx, FortiAP 433Gxxxxxx, FAP-433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only) (refer to item 3.1 for more details)
Received Date:	2024/3/19
Test Date:	2024/3/28 ~ 2024/4/22
Issued Date:	2024/5/17
Applicant:	Fortinet, Inc.
Address:	899 Kifer Rd. Sunnyvale CA. 94086 United States
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location(1):	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan
Test Location(2):	No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
FCC Registration / Designation Number:	788550 / TW0003 for Test Location(1) 281270 / TW0032 for Test Location(2)

Approved by: Jeremy Lin , **Date:** 2024/5/17

Jeremy Lin / Project Engineer

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Prepared by : Pettie Chen / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P22051021G-1	Original release.	2024/5/17

1 Certificate

Product:	Secured Wireless Access Point
Brand:	FORTINET
Test Model:	FAP-431G, FAP-433G
Variant Model:	FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx, FortiAP 433Gxxxxxx, FAP-433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only) (refer to item 3.1 for more details)
Sample Status:	Engineering sample
Applicant:	Fortinet, Inc.
Test Date:	2024/3/28 ~ 2024/4/22
Standard:	47 CFR FCC Part 15, Subpart E (Section 15.407)
Measurement procedure:	ANSI C63.10-2013 KDB 789033 D02 General UNII Test Procedure New Rules v02r01 KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	Pass	Refer to Note
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Refer to Note
---	Occupied Bandwidth	Pass	Refer to Note
15.407(g)	Frequency Stability	Pass	Refer to Note
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -11.83 dB at 0.59000 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.7 dB at 80.44 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 5150.00 MHz
15.203	Antenna Requirement	Pass	For internal antenna: Antenna connector is ipex(MHF) not a standard connector. For external antenna: Antenna connector is R-SMA (ANT0 ~ ANT3) & ipex (ANT4 ~ ANT7) & RPSMA plug (ANT 9~11) not a standard connector.

Note:

1. RF Output Power, Power Spectral Density, AC Power Conducted Emissions and Unwanted Emissions are performed for the addendum. Refer to original report for the other test data.
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) (±)
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.88 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 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	Secured Wireless Access Point
Brand	FORTINET
Test Model	FAP-431G, FAP-433G
Variant Model	FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx, FortiAP 433Gxxxxxx, FAP-433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or “-", or blank for software changes or marketing purposes only) (refer to item 3.1 for more details)
Model Difference	Refer to note
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from Adapter 55Vdc from PoE
Modulation Type	802.11a/n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n (HT20/40): up to 600Mbps 802.11ac (VHT20/40/80/160): up to 1733.3Mbps 802.11ax: up to 4803.9Mbps
Operating Frequency	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
Number of Channel	Radio 2: 5180 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 8 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2 802.11ac (VHT80+VHT80), 802.11ax (HE80+HE80): 1 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 802.11ac (VHT80+VHT80), 802.11ax (HE80+HE80): 1 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 Radio 3: 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 802.11ac (VHT160), 802.11ax (HE160): 1 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1

Output Power	Model: FAP-433G Radio 2: (Antenna: Omindirectional Antenna) CDD: 5.18 GHz ~ 5.24 GHz: 402.959 mW (26.05 dBm) 5.26 GHz ~ 5.32 GHz: 93.345 mW (19.70 dBm) 5.50 GHz ~ 5.72 GHz: 197.463 mW (22.95 dBm) 5.745 GHz ~ 5.825 GHz: 868.331 mW (29.39 dBm) Beamforming: 5.18 GHz ~ 5.24 GHz: 221.109 mW (23.45 dBm) 5.26 GHz ~ 5.32 GHz: 54.807 mW (17.39 dBm) 5.50 GHz ~ 5.72 GHz: 57.888 mW (17.63 dBm) 5.745 GHz ~ 5.825 GHz: 268.897 mW (24.30 dBm) Model: FAP-433G Radio 2: (Antenna: Quad Patch Antenna) CDD: 5.18 GHz ~ 5.24 GHz: 402.935 mW (26.05 dBm) 5.26 GHz ~ 5.32 GHz: 118.867 mW (20.75 dBm) 5.50 GHz ~ 5.72 GHz: 202.063 mW (23.05 dBm) 5.745 GHz ~ 5.825 GHz: 763.892 mW (28.83 dBm) Beamforming: 5.18 GHz ~ 5.24 GHz: 250.795 mW (23.99 dBm) 5.26 GHz ~ 5.32 GHz: 65.387 mW (18.15 dBm) 5.50 GHz ~ 5.72 GHz: 57.232 mW (17.58 dBm) 5.745 GHz ~ 5.825 GHz: 211.313 mW (23.25 dBm)
EUT Category	Indoor Access Point

Note:

1. This report is prepared for FCC class II permissive change. This report is issued as a supplementary report to the original BV CPS report no.: RFBCKS-WTW-P22051021C-3. The difference is adding 3 antennas (ANT 9 ~ 11) for Model: FAP-433G. Only RF Output Power, Power Spectral Density, AC Power Conducted Emissions and Unwanted Emissions were performed for this addendum.
2. The following models are provided to this EUT. The model FAP-431G, FAP-433G were chosen for final test.

Brand	Test Model	Series Model	Difference
Fortinet	FAP-431G	FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	internal antenna
	FAP-433G	FortiAP 433Gxxxxxx, FAP-433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	external antenna

3. The EUT consumes power from the following adapter and POE.

Adapter (support units only)	
Brand	Asian Power Devices Inc.
Model	WA-48A12R
Input Power	100-240Vac~50-60Hz, 1.5A Max
Output Power	12.0Vdc, 4.0A, 48.0W
Power Line	1.47m cable without core attached on adapter

POE (support units only)	
Brand	Microsemi
Model	PD-9501-10GC/AC
Input Power	100-240Vac~50-60Hz, 1.5A Max
Output Power	55Vdc, 1.1A

4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.
5. Radio 1, Radio 2, Radio 3 (5G_H) and Radio 4 can transmit simultaneously.
   But Radio 2 (5G), Radio 3 (5G_H) cannot transmit in the same band simultaneously.
   Radio 4 (BLE) and Radio 4 (Zigbee) cannot transmit simultaneously.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Model	Radio	Chip	Mode	Antennas	Ant. Type	Bands Supported
FAP-433G	Radio 1	QCN-5124	4x4 MIMO	ANT 0/1/2/3/9/10/11	External	2.4GHz WLAN
	Radio 2	QCN-5154	4x4 MIMO	ANT 0/1/2/3/9/10/11	External	U-NII-1, 2A, 2C, 3 WLAN up to 80MHz+80MHz
	Radio 3_6G	QCN-9074	4x4 MIMO	ANT 4/5/6/7	Integrated (Non-detachable external antenna)	6GHz WLAN
	Radio 3_5GH	QCN-9074	4x4 MIMO	ANT 4/5/6/7	Integrated (Non-detachable external antenna)	U-NII-2C, 3, 4 WLAN up to 160MHz
	Radio 3 _Scanning	QCN-9074	2x2 MIMO	ANT 4/6	Integrated (Non-detachable external antenna)	2.4GHz WLAN, U-NII-1, 3, 4 WLAN, 6GHz WLAN (TX/RX), U-NII-2A, 2C (Receiver only)
	Radio 4	EFR32MG21	-	ANT 8	Integrated	BT / Zigbee
FAP-431G	Radio 1	QCN-5124	4x4 MIMO	ANT 0/1/2/3	Integrated	2.4GHz WLAN
	Radio 2	QCN-5154	4x4 MIMO	ANT 0/1/2/3	Integrated	U-NII-1, 2A, 2C, 3, 4 WLAN up to 80MHz+80MHz
	Radio 3_6G	QCN-9074	4x4 MIMO	ANT 4/5/6/7	Integrated	6GHz WLAN
	Radio 3_5GH	QCN-9074	4x4 MIMO	ANT 4/5/6/7	Integrated	U-NII-2C, 3 WLAN up to 160MHz U-NII-4 WLAN up to 160 MHz
	Radio 3 _Scanning	QCN-9074	2x2 MIMO	ANT 4/6	Integrated	2.4GHz WLAN, U-NII-1, 3, 4 WLAN, 6GHz WLAN (TX/RX), U-NII-2A, 2C (Receiver only)
	Radio 4	EFR32MG21	-	ANT 8	Integrated	BT / Zigbee

Model: FAP-431G

Antenna Type		PIFA			
Connector Type		ipex(MHF)			
Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain (dBi)	Frequency range
ANT0(DB4)	Rdaio1 2G CH0 Rdaio2 5G CH0 Rdaio2 5GL CH0	WNC	FortiAP-431G	1.41	2.4~2.4835GHz
				4.62	5.15~5.25GHz
				4.62	5.25~5.35GHz
				4.35	5.47~5.725GHz
				3.91	5.725~5.85GHz
				3.91	5.85~5.895GHz
ANT1(DB3)	Rdaio1 2G CH1 Rdaio2 5G CH1 Rdaio2 5GL CH1	WNC	FortiAP-431G	1.72	2.4~2.4835GHz
				3.38	5.15~5.25GHz
				3.61	5.25~5.35GHz
				3.72	5.47~5.725GHz
				3.72	5.725~5.85GHz
				3.72	5.85~5.895GHz
ANT2(DB1)	Rdaio1 2G CH2 Rdaio2 5G CH2 Rdaio2 5GL CH2	WNC	FortiAP-431G	1.54	2.4~2.4835GHz
				4.85	5.15~5.25GHz
				4.85	5.25~5.35GHz
				4.51	5.47~5.725GHz
				4.30	5.725~5.85GHz
				4.30	5.85~5.895GHz
ANT3(DB2)	Rdaio1 2G CH3 Rdaio2 5G CH3 Rdaio2 5GL CH3	WNC	FortiAP-431G	2.38	2.4~2.4835GHz
				3.48	5.15~5.25GHz
				3.52	5.25~5.35GHz
				3.58	5.47~5.725GHz
				3.55	5.725~5.85GHz
				3.55	5.85~5.895GHz
ANT4(TB4)	Radio3 5GH CH0 Radio3 6G CH0 Radio 3 Scanning 2/5/6G CH0 (U-NII-2A, 2C receiver only)	WNC	FortiAP-431G	3.50	2.4~2.4835GHz
				4.98	5.15~5.25GHz
				4.98	5.25~5.35GHz
				4.98	5.47~5.725GHz
				4.50	5.725~5.85GHz
				4.50	5.85~5.895GHz
				4.80	5.925~6.425GHz
				4.80	6.425~6.525GHz
				5.50	6.525~6.875GHz
				5.50	6.875~7.125GHz
ANT5(TB1)	Rdaio3 5GH CH1 Rdaio3 6G CH1	WNC	FortiAP-431G	4.76	5.47~5.725GHz
				4.38	5.725~5.85GHz
				4.38	5.85~5.895GHz
				4.32	5.925~6.425GHz
				4.32	6.425~6.525GHz
				4.84	6.525~6.875GHz
				4.84	6.875~7.125GHz

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain (dBi)	Frequency range
ANT6(TB2)	Radio3 5GH CH2 Radio3 6G CH2 Radio 3 Scanning 2/5/6G CH1 (U-NII-2A, 2C receiver only)	WNC	FortiAP-431G	2.58	2.4~2.4835GHz
				4.47	5.15~5.25GHz
				4.81	5.25~5.35GHz
				5.30	5.47~5.725GHz
				5.30	5.725~5.85GHz
				5.30	5.85~5.895GHz
				4.60	5.925~6.425GHz
				4.60	6.425~6.525GHz
				5.20	6.525~6.875GHz
				5.20	6.875~7.125GHz
ANT7(TB3)	Rdaio3 5GH CH3 Rdaio3 6G CH3	WNC	FortiAP-431G	5.09	5.47~5.725GHz
				5.09	5.725~5.85GHz
				5.09	5.85~5.895GHz
				4.20	5.925~6.425GHz
				3.94	6.425~6.525GHz
				4.50	6.525~6.875GHz
				4.50	6.875~7.125GHz

Radio 1

Frequency Range	Directional Gain (dBi)
2400~2483.5MHz	6.37

Radio 2

Frequency Range	Directional Gain (dBi)
5150~5250MHz	6.94
5250~5350MHz	6.98
5470~5725MHz	6.06
5725~5850MHz	6.31
5850~5895MHz	6.03

For 802.11ac (VHT80+VHT80) and 802.11ax (HE80+ HE80)

Chan.	Chan. Freq. (MHz)	Directional Gain (dBi)
42+58(L)	5210	4.36
42+58(H)	5290	4.39
106+122(L)	5530	4.03
106+122(H)	5610	3.92

Radio 3

Frequency Range	Directional Gain (dBi)
5470~5725MHz	7.11
5725~5850MHz	6.91
5850~5895MHz	6.61
5925~6425MHz	6.37
6425~6525MHz	6.98
6525~6875MHz	7.11
6875~7125MHz	7.62

Model: FAP-433G

Antenna Type		Dipole			
Connector Type		R-SMA (ANT0 ~ ANT3); ipex (ANT4 ~ ANT7)			
Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency range
ANT0	Radio 1 2G CH0 Radio 2 5G CH0 Radio 2 5GL CH0	MAGLAYERS	EDA-1410-6G0R2-A3	5.65	2.4~2.4835GHz
				5.31	5.15~5.25GHz
				5.37	5.25~5.35GHz
				5.94	5.47~5.725GHz
				5.45	5.725~5.85GHz
ANT1	Radio 1 2G CH1 Radio 2 5G CH1 Radio 2 5GL CH1	MAGLAYERS	EDA-1410-6G0R2-A3	5.65	2.4~2.4835GHz
				5.31	5.15~5.25GHz
				5.37	5.25~5.35GHz
				5.94	5.47~5.725GHz
				5.45	5.725~5.85GHz
ANT2	Radio 1 2G CH2 Radio 2 5G CH2 Radio 2 5GL CH2	MAGLAYERS	EDA-1410-6G0R2-A3	5.65	2.4~2.4835GHz
				5.31	5.15~5.25GHz
				5.37	5.25~5.35GHz
				5.94	5.47~5.725GHz
				5.45	5.725~5.85GHz
ANT3	Radio 1 2G CH3 Radio 2 5G CH3 Radio 2 5GL CH3	MAGLAYERS	EDA-1410-6G0R2-A3	5.65	2.4~2.4835GHz
				5.31	5.15~5.25GHz
				5.37	5.25~5.35GHz
				5.94	5.47~5.725GHz
				5.45	5.725~5.85GHz
ANT4	Radio 3 5GH CH0 Radio 3 6G CH0 2/5/6G CH0 (U-NII-2A, 2C receiver only)	MAGLAYERS	BTEAWT14136G0C1A02	3.11	2.4~2.4835GHz
				2.27	5.15~5.25GHz
				2.27	5.25~5.35GHz
				2.81	5.47~5.725GHz
				2.81	5.725~5.85GHz
				2.81	5.85~5.895GHz
				2.55	5.925~6.425GHz
				2.55	6.425~6.525GHz
				2.74	6.525~6.875GHz
				2.74	6.875~7.125GHz

Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency range
ANT5	Radio 3 5GH CH1 Radio 3 6G CH1	MAGLAYERS	BTEAWT14136G0C1A02	2.81	5.47~5.725GHz
				2.81	5.725~5.85GHz
				2.81	5.85~5.895GHz
				2.55	5.925~6.425GHz
				2.55	6.425~6.525GHz
				2.74	6.525~6.875GHz
				2.74	6.875~7.125GHz
ANT6	Radio 3 5GH CH2 Radio 3 6G CH2 2/5/6G CH1 (U-NII-2A, 2C receiver only)	MAGLAYERS	BTEAWT14136G0C1A01	2.81	2.4~2.4835GHz
				2.39	5.15~5.25GHz
				2.39	5.25~5.35GHz
				2.39	5.47~5.725GHz
				2.39	5.725~5.85GHz
				2.21	5.85~5.895GHz
				2.71	5.925~6.425GHz
				2.71	6.425~6.525GHz
				2.61	6.525~6.875GHz
				2.61	6.875~7.125GHz
ANT7	Radio 3 5GH CH3 Radio 3 6G CH3	MAGLAYERS	BTEAWT14136G0C1A01	2.39	5.47~5.725GHz
				2.39	5.725~5.85GHz
				2.21	5.85~5.895GHz
				2.71	5.925~6.425GHz
				2.71	6.425~6.525GHz
				2.61	6.525~6.875GHz
				2.61	6.875~7.125GHz

Radio 1

Antenna Gain	Directional Gain (dBi)
2400~2483.5MHz	6.59

Radio 2

Antenna Gain	Directional Gain (dBi)
5150~5250MHz	7.06
5250~5350MHz	7.16
5470~5725MHz	7.52
5725~5850MHz	7.16

For 802.11ac (VHT80+VHT80) and 802.11ax (HE80+ HE80)

Chan.	Chan. Freq. (MHz)	Directional Gain (dBi)
42+58(L)	5210	5.16
42+58(H)	5290	5.13
106+122(L)	5530	5.44
106+122(H)	5610	5.46

Radio 3

Antenna Gain	Directional Gain (dBi)
5470~5725MHz	8.35
5725~5850MHz	8.26
5850~5895MHz	8.10
5925~6425MHz	7.12
6425~6525MHz	7.29
6525~6875MHz	7.33
6875~7125MHz	7.43

Antenna Type		Omindirectional Antenna			
Connector Type		RPSMA plug			
Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency range
ANT9 (New 1)	Chain 0	TERRAWAVE	FANT-04ABGN-0606-O-R (M6060060MO1D43620)	6.11	2400~2500Mhz
	Chain 1			6.30	2400~2500Mhz
	Chain 2			6.34	2400~2500Mhz
	Chain 3			5.94	2400~2500Mhz
	Chain 0			5.49	5.15~5.25GHz
				5.49	5.25~5.35GHz
				5.80	5.47~5.725GHz
				5.40	5.725~5.85GHz
	Chain 1			6.51	5.15~5.25GHz
				6.58	5.25~5.35GHz
				6.54	5.47~5.725GHz
				5.60	5.725~5.85GHz
	Chain 2			6.34	5.15~5.25GHz
				6.31	5.25~5.35GHz
				6.02	5.47~5.725GHz
				5.01	5.725~5.85GHz
	Chain 3			7.61	5.15~5.25GHz
				7.76	5.25~5.35GHz
				6.93	5.47~5.725GHz
				6.45	5.725~5.85GHz
ANT10 (New 2)	Chain 0	TERRAWAVE	FANT-04ABGN-2504-O-R (M6025040O3D420MW)	3.97	2400~2500Mhz
	Chain 1			3.76	2400~2500Mhz
	Chain 2			3.99	2400~2500Mhz
	Chain 3			3.77	2400~2500Mhz
	Chain 0			4.23	5.15~5.25GHz
				4.18	5.25~5.35GHz
				4.81	5.47~5.725GHz
				4.52	5.725~5.85GHz
	Chain 1			4.00	5.15~5.25GHz
				4.78	5.25~5.35GHz
				5.32	5.47~5.725GHz
				4.31	5.725~5.85GHz
	Chain 2			4.03	5.15~5.25GHz
				4.42	5.25~5.35GHz
				4.83	5.47~5.725GHz
				4.75	5.725~5.85GHz
	Chain 3			3.76	5.15~5.25GHz
				4.58	5.25~5.35GHz
				5.35	5.47~5.725GHz
				5.09	5.725~5.85GHz

* Ant 9 and Ant 10 are the same type of antenna. Ant. 9 has larger gain, therefore it was chosen for the final test.

Antenna Type		Quad Patch Antenna			
Connector Type		RPSMA plug			
Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency range
ANT11 (New 3)	Chain 0	TERRAWAVE	FANT-04ABGN-0606-P-R (M6060060MP1D43620)	4.81	2400~2500Mhz
	Chain 1			4.13	2400~2500Mhz
	Chain 2			4.77	2400~2500Mhz
	Chain 3			4.26	2400~2500Mhz
	Chain 0			5.71	5.15~5.25GHz
				5.71	5.25~5.35GHz
				6.13	5.47~5.725GHz
				6.14	5.725~5.85GHz
	Chain 1			5.81	5.15~5.25GHz
				5.77	5.25~5.35GHz
				6.78	5.47~5.725GHz
				6.40	5.725~5.85GHz
	Chain 2			6.28	5.15~5.25GHz
				5.69	5.25~5.35GHz
				6.31	5.47~5.725GHz
				7.09	5.725~5.85GHz
	Chain 3			6.08	5.15~5.25GHz
				6.08	5.25~5.35GHz
				6.05	5.47~5.725GHz
				7.16	5.725~5.85GHz

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

2. The EUT incorporates a MIMO function:

5 GHz Band		
Radio 2		
Modulation Mode	TX & RX Configuration	
802.11a	4TX	4RX
802.11n (HT20)	4TX	4RX
802.11n (HT40)	4TX	4RX
802.11ac (VHT20)	4TX	4RX
802.11ac (VHT40)	4TX	4RX
802.11ac (VHT80)	4TX	4RX
802.11ac (VHT80+VHT80)	2TX+2TX	2RX+2RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	4TX	4RX
802.11ax (HE80+HE80)	2TX+2TX	2RX+2RX
Note: 1. All of modulation mode support beamforming function except 802.11a modulation mode. 2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.		
Radio 3		
Modulation Mode	TX & RX Configuration	
802.11a	4TX	4RX
802.11n (HT20)	4TX	4RX
802.11n (HT40)	4TX	4RX
802.11ac (VHT20)	4TX	4RX
802.11ac (VHT40)	4TX	4RX
802.11ac (VHT80)	4TX	4RX
802.11ac (VHT160)	4TX	4RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	4TX	4RX
802.11ax (HE160)	4TX	4RX
Note: 1. All of modulation mode support beamforming function except 802.11a modulation mode. 2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.		

Radio 3_Scanning Radio (For UNII-1/3)		
Modulation Mode	TX & RX Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX

Radio 3_Scanning Radio (For UNII-2A/2C)		
Modulation Mode	TX & RX Configuration	
802.11a	-	2RX
802.11n (HT20)	-	2RX
802.11n (HT40)	-	2RX
802.11ac (VHT20)	-	2RX
802.11ac (VHT40)	-	2RX
802.11ac (VHT80)	-	2RX
802.11ax (HE20)	-	2RX
802.11ax (HE40)	-	2RX
802.11ax (HE80)	-	2RX

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz
54	5270 MHz	62	5310 MHz

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

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

Channel	Frequency
50	5250 MHz

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

Channel	Frequency
42+58	5210 MHz + 5290 MHz

FOR 5500 ~ 5720 MHz

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

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

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

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

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

Channel	Frequency
114	5570 MHz

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

Channel	Frequency
106+122	5530 MHz + 5610 MHz

FOR 5745 ~ 5825 MHz:

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

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The Power Souce has the following models: AC Adapter/PoE. Pre-scan these models of Power Source and find the worst case as a representative test condition. 2. The antenna of EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 3. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. PoE 2. Omindirectional Antenna: Z-Axis & Quad Patch Antenna: Z-Axis (90 degree)

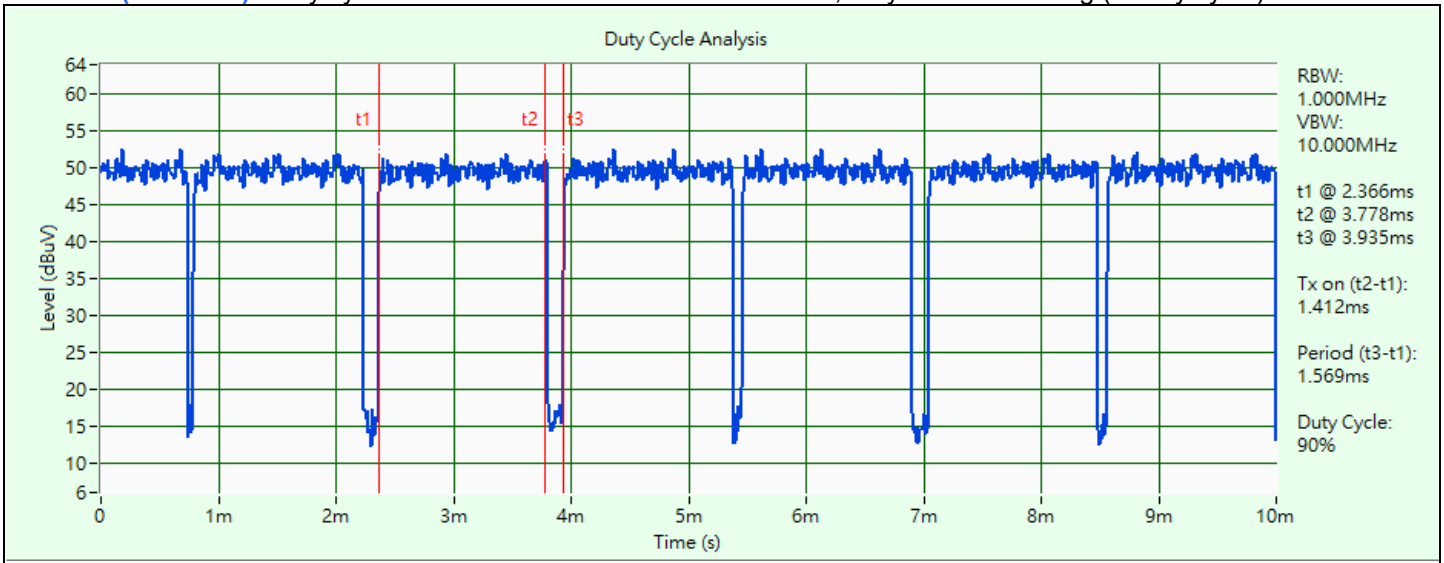
Following channel(s) was (were) selected for the final test as listed below:

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	A, B	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11n (HT20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11n (HT40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ac (VHT20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ac (VHT40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ac (VHT80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ac (VHT80+VHT80)	CDD & Beamforming	42+58, 106+122	BPSK	MCS0
		802.11ax (HE20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE80+HE80)	CDD & Beamforming	42+58, 106+122	BPSK	MCS0

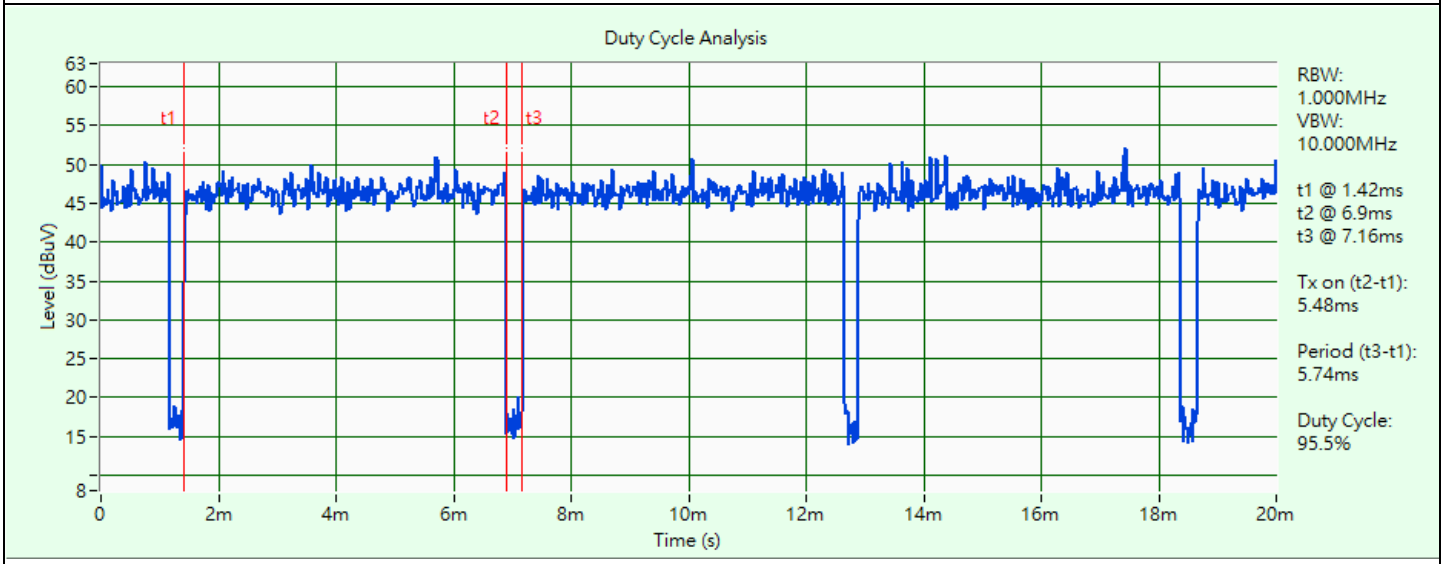
Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Power Spectral Density	A, B	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE80+HE80)	CDD	42+58, 106+122	BPSK	MCS0
AC Power Conducted Emissions	A	802.11a	CDD	149	BPSK	6Mb/s
	B	802.11ax (HE40)	CDD	151	BPSK	MCS0
Unwanted Emissions below 1 GHz	A	802.11a	CDD	149	BPSK	6Mb/s
	B	802.11ax (HE40)	CDD	151	BPSK	MCS0
Unwanted Emissions above 1 GHz	A, B	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE80+HE80)	CDD	42+58, 106+122	BPSK	MCS0
EUT Configure Mode:	A	EUT (FAP-433G) with Omindirectional Antenna: FANT-04ABGN-0606-O-R				
	B	EUT (FAP-433G) with Quad Patch Antenna: FANT-04ABGN-0606-P-R				
Note1: Partial RU (resource unit) mechanism is not supported. Note2: Newly Antennas only support on Radio 1 and Radio 2 for FAP-433G.						

3.5 Duty Cycle of Test Signal

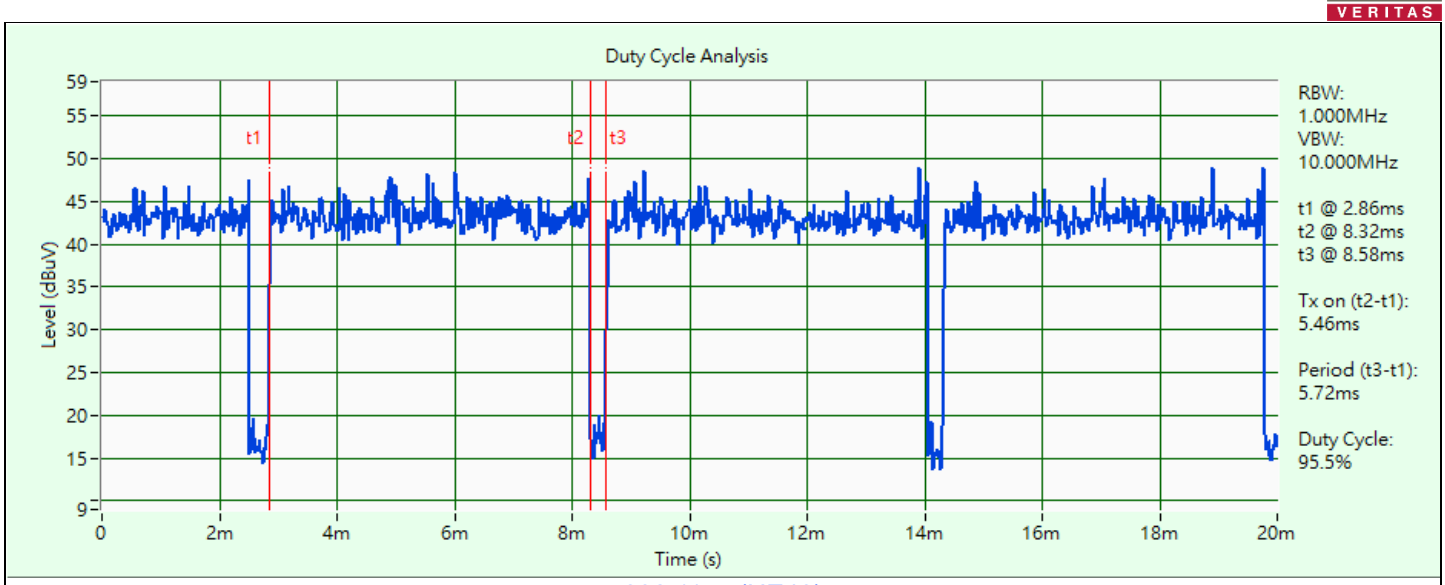
802.11a: Duty cycle = 1.412 ms / 1.569 ms x 100% = 90.0%, duty factor = 10 * log (1/Duty cycle) = 0.46 dB
802.11ax (HE20): Duty cycle = 5.48 ms / 5.74 ms x 100% = 95.5%, duty factor = 10 * log (1/Duty cycle) = 0.20 dB
802.11ax (HE40): Duty cycle = 5.46 ms / 5.72 ms x 100% = 95.5%, duty factor = 10 * log (1/Duty cycle) = 0.20 dB
802.11ax (HE80): Duty cycle = 5.48 ms / 5.78 ms x 100% = 94.8%, duty factor = 10 * log (1/Duty cycle) = 0.23 dB
802.11ax (HE80+80): Duty cycle = 5.48 ms / 5.78 ms x 100% = 94.8%, duty factor = 10 * log (1/Duty cycle) = 0.23 dB



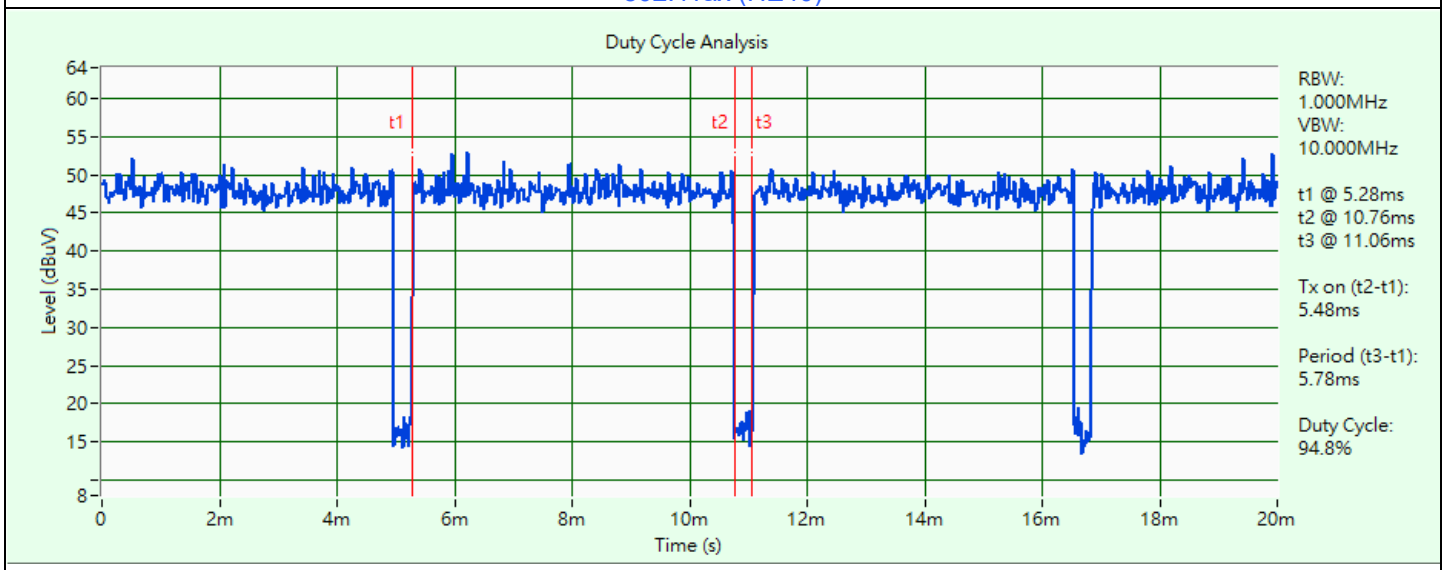
802.11a



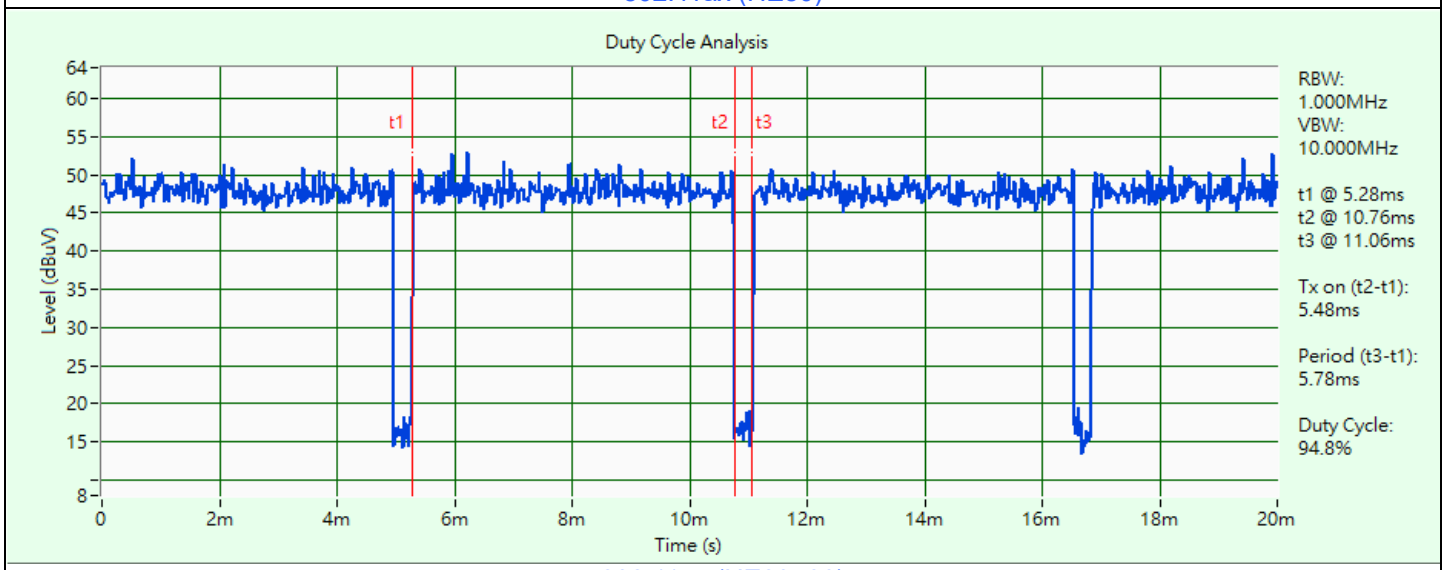
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



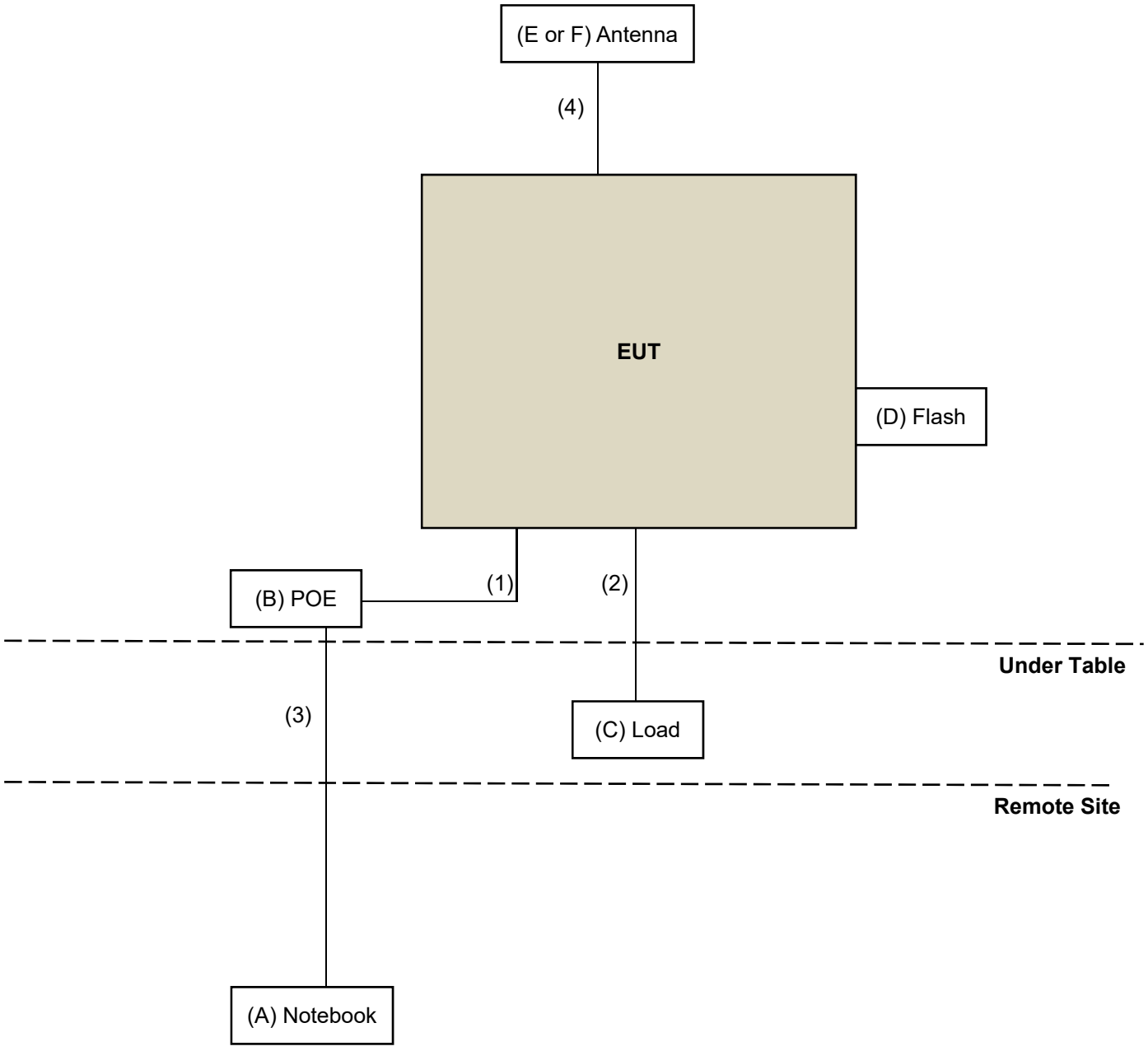
802.11ax (HE80+80)

3.6 Test Program Used and Operation Descriptions

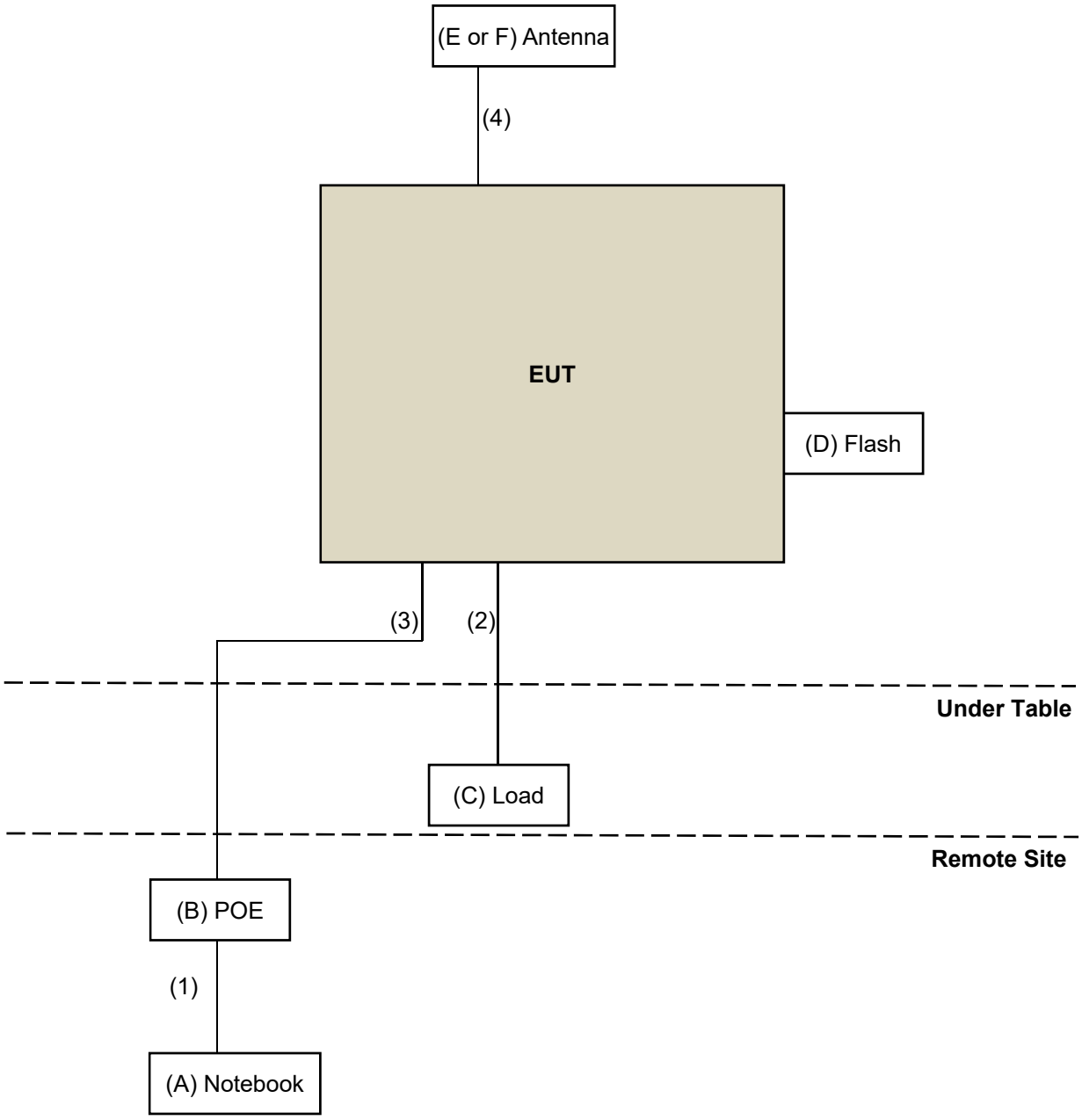
Controlling software QSPR V5.0.188.0 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

AC Power Conducted Emissions



Unwanted Emissions



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Notebook	Lenovo	L470	N/A	N/A	Provided by Lab
B	POE	Microsemi	PD-9501-10GC/AC	N/A	N/A	Supplied by applicant
C	Load	N/A	N/A	N/A	N/A	Provided by Lab
D	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
E	Antenna	TERRAWAVE	FANT-04ABGN-0606-O-R	N/A	N/A	Supplied by applicant
F	Antenna	TERRAWAVE	FANT-04ABGN-0606-P-R	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	1	2	N	0	Provided by Lab
2	RJ-45 Cable	2	2	N	0	Provided by Lab
3	RJ-45 Cable	1	10	N	0	Provided by Lab
4	RF Cable	4	0.5	N	0	Supplied by applicant

4 Test Instruments

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

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer Keysight	8990B	MY51000485	2024/1/21	2025/1/20
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Wideband Power Sensor Keysight	N1923A	MY58020002	2024/1/18	2025/1/17
		MY58140009	2024/1/18	2025/1/17

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/4/20 ~ 2024/4/22

4.2 Power Spectral Density

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

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/4/20 ~ 2024/4/22

4.3 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance HUBER+SUHNER	E1-011315	13	2023/11/22	2024/11/21
50 ohm terminal resistance	E1-011279	04	2023/11/22	2024/11/21
	E1-011280	05	2023/11/22	2024/11/21
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2023/11/7	2024/11/6
EMI Test Receiver R&S	ESCI	100613	2023/12/4	2024/12/3
Fixed Attenuator Mini-Circuits	HAT-10+	PAD-COND1-01	2024/1/6	2025/1/5
LISN R&S	ESH3-Z5	100311	2023/9/6	2024/9/5
		100312	2023/9/12	2024/9/11
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2024/1/6	2025/1/5
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2023/8/31	2024/8/30

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2024/4/8

4.4 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1213	2023/10/13	2024/10/12
EMI Test Receiver R&S	ESR3	102782	2023/12/7	2024/12/6
Loop Antenna Electro-Metrics	EM-6879	269	2023/9/23	2024/9/22
Loop Antenna TESEQ	HLA 6121	45745	2023/8/8	2024/8/7
MXA Signal Analyzer Keysight	N9020B	MY60110513	2023/12/22	2024/12/21
Preamplifier EMCI	EMC330N	980782	2024/1/15	2025/1/14
	EMC001340	980201	2023/9/27	2024/9/26
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201233	2024/1/15	2025/1/14
	EMCCFD400-NM-NM-3000	201235	2024/1/15	2025/1/14
	EMCCFD400-NM-NM-9000	201236(with PAD)	2024/1/15	2025/1/14
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2024/3/30

4.5 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
EMI Test Receiver R&S	ESR3	102782	2023/12/7	2024/12/6
Horn Antenna RFSPIN	DRH18-E	210103A18E	2023/11/12	2024/11/11
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2023/11/12	2024/11/11
MXA Signal Analyzer Keysight	N9020B	MY60110513	2023/12/22	2024/12/21
Preamplifier EMCI	EMC118A45SE	980808	2023/12/28	2024/12/27
	EMC184045SE	980788	2024/1/15	2025/1/14
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2024/1/15	2025/1/14
	EMC101G-KM-KM-3000	201258	2024/1/15	2025/1/14
	EMC101G-KM-KM-5000	201261	2024/1/15	2025/1/14
	EMC104-SM-SM-1000	210102	2024/1/15	2025/1/14
	EMC104-SM-SM-3000	201231	2024/1/15	2025/1/14
	EMC104-SM-SM-9000	201243	2024/1/15	2025/1/14
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2024/3/28 ~ 2024/4/12

5 Limits of Test Items

5.1 RF Output Power

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Point	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Mobile and Portable client device	250mW (24 dBm)

Operation Band	Limit
U-NII-2A	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

5.2 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Point	
	Indoor Access Point	
	Mobile and Portable client device	11 dBm/MHz

Operation Band	Limit
U-NII-2A	11 dBm/MHz
U-NII-2C	11 dBm/MHz
U-NII-3	30 dBm/500 kHz

5.3 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.

5.4 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).

5.5 Unwanted Emissions above 1 GHz

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

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedure New Rules v02r01	Field Strength at 3 m	
	PK: 74 (dBµV/m)	AV: 54 (dBµV/m)

For transmitters operating in the 5.15-5.25 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)

For transmitters operating in the 5.25-5.35 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)

For transmitters operating in the 5.47-5.725 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) [*1] PK: 10 (dBm/MHz) [*2] PK: 15.6 (dBm/MHz) [*3] PK: 27 (dBm/MHz) [*4]	PK: 68.2 (dBµV/m) [*1] PK: 105.2 (dBµV/m) [*2] PK: 110.8 (dBµV/m) [*3] PK: 122.2 (dBµV/m) [*4]
[*1] beyond 75 MHz or more above of the band edge. [*2] below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. [*3] below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. [*4] from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

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

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup

For channel straddling:

6.1.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

For channel straddling:

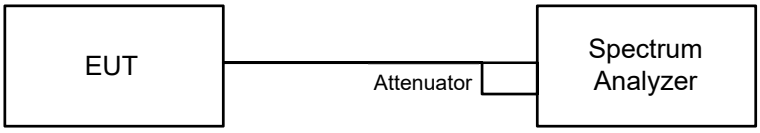
Method SA-2A

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
d. Manually set sweep time ≥ 10 × (number of points in sweep) × (total on/off period of the transmitted signal).
e. Perform a single sweep.
f. Record the max value and add 10 log (1/duty cycle).

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

6.2 Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-2

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
d. Sweep time = auto, trigger set to “free run”.
e. Trace average at least 100 traces in power averaging mode.
f. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
g. Record the max value and add 10 log (1/duty cycle).

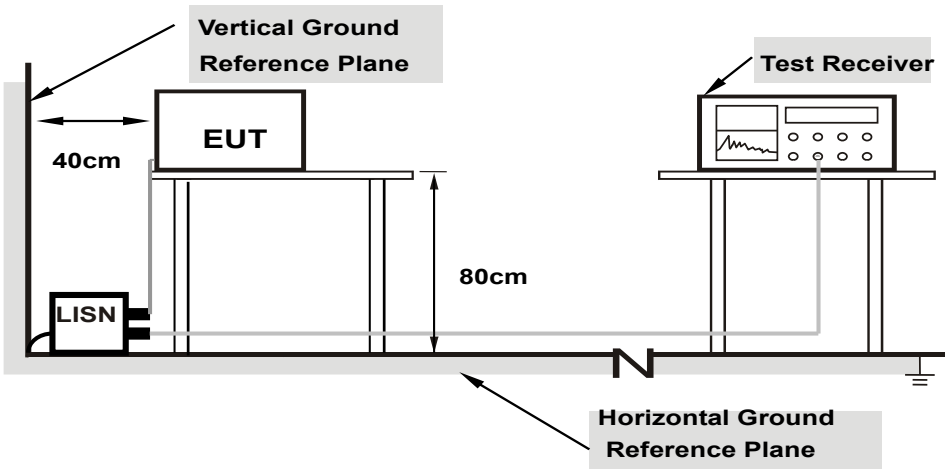
For specified measurement bandwidth 500 kHz:

Method SA-2

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
c. Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500 kHz/300 kHz)
d. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
e. Sweep time = auto, trigger set to “free run”.
f. Trace average at least 100 traces in power averaging mode.
g. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
h. Record the max value and add 10 log (1/duty cycle).

6.3 AC Power Conducted Emissions

6.3.1 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).

6.3.2 Test Procedure

a. 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.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

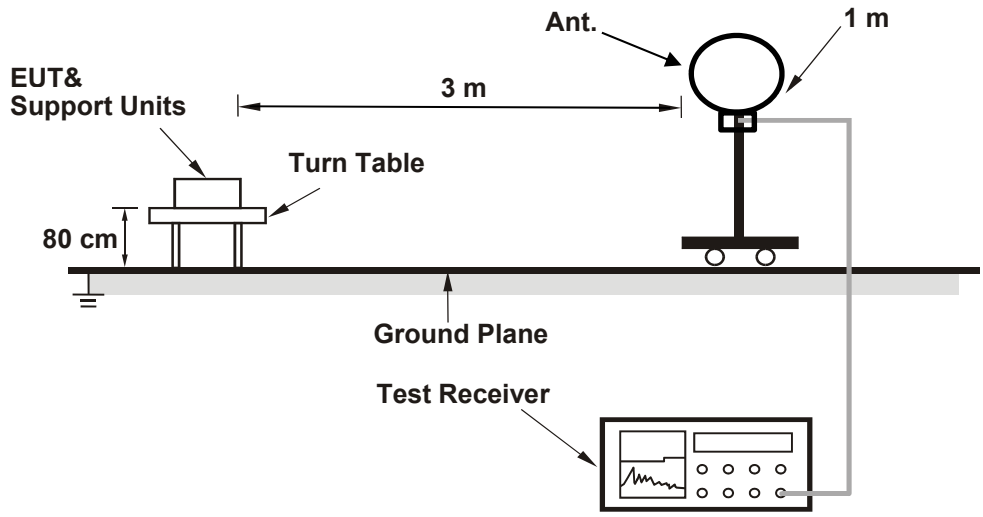
c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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.

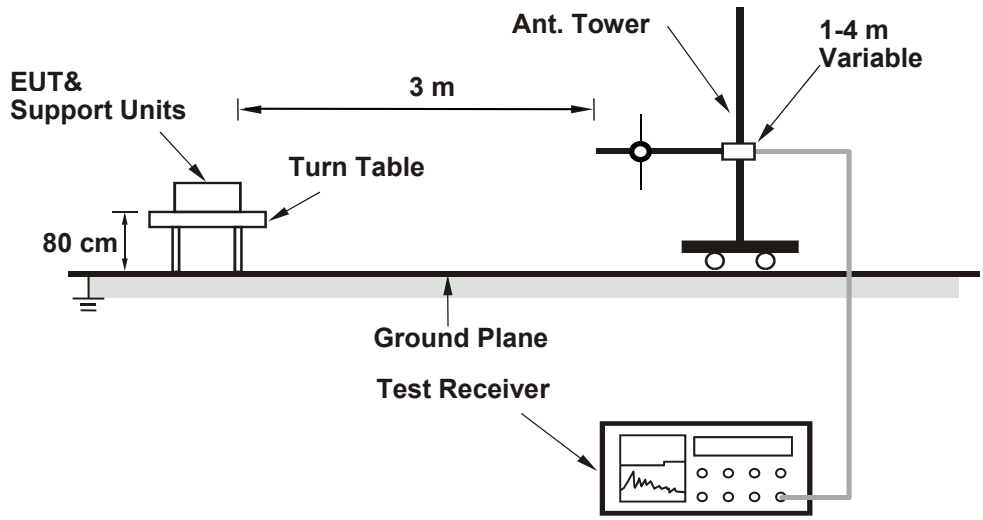
6.4 Unwanted Emissions below 1 GHz

6.4.1 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).

6.4.2 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.

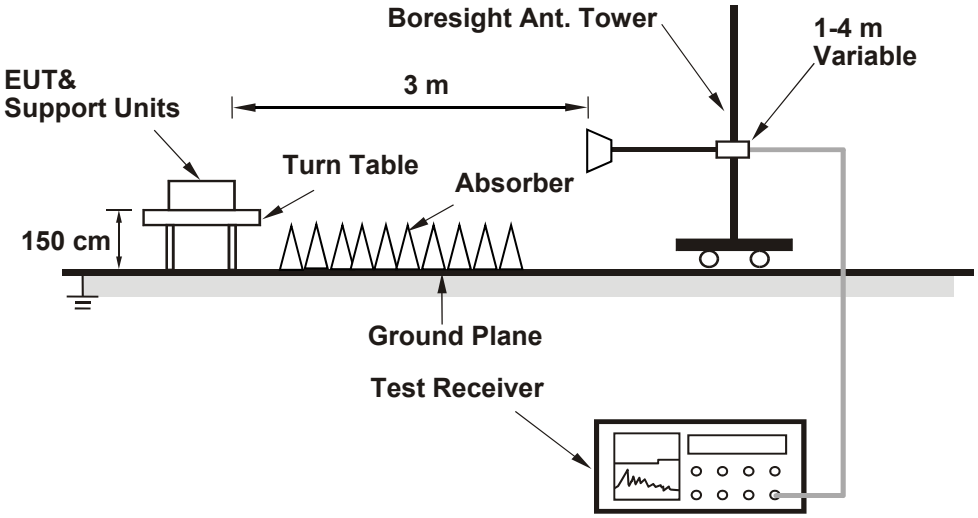
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

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.

6.5 Unwanted Emissions above 1 GHz

6.5.1 Test Setup



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

6.5.2 Test Procedure

a. 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.

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 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:

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

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	55 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang

Mode A

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.66	16.90	17.45	17.12	214.436	23.31	28.39	Pass
40	5200	17.01	16.67	17.33	16.80	198.624	22.98	28.39	Pass
48	5240	17.47	16.86	17.41	16.92	208.661	23.19	28.39	Pass
52	5260	11.30	10.59	11.16	10.24	48.575	16.86	22.17	Pass
60	5300	11.23	11.05	11.03	10.40	49.65	16.96	22.16	Pass
64	5320	11.42	10.98	10.90	10.48	49.87	16.98	22.13	Pass
100	5500	11.47	11.21	11.45	11.32	54.757	17.38	22.89	Pass
116	5580	11.63	11.62	11.48	10.73	54.967	17.40	22.91	Pass
140	5700	11.55	11.30	11.47	10.70	53.556	17.29	22.98	Pass
*144 (U-NII-2C)	5720	10.78	10.18	9.74	10.24	47.09	16.73	21.79	Pass
*144 (U-NII-3)	5720	4.34	3.73	3.29	3.80	10.677	10.28	29.55	Pass
149	5745	23.54	23.45	23.40	23.06	868.331	29.39	29.55	Pass
157	5785	23.51	23.22	23.48	22.16	821.563	29.15	29.55	Pass
165	5825	23.22	22.83	23.23	22.90	807.123	29.07	29.55	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 7.61 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.
4. For U-NII-2A, the maximum gain is 7.76 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.76-6)].
5. For U-NII-2C, the maximum gain is 6.93 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.93-6)].
6. For U-NII-3, the maximum gain is 6.45 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.45-6) = 29.55 dBm.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.60	16.78	17.36	17.06	210.453	23.23	28.39	Pass
40	5200	16.94	16.51	17.61	16.70	198.653	22.98	28.39	Pass
48	5240	15.92	15.48	16.51	15.50	154.655	21.89	28.39	Pass
52	5260	10.77	10.62	11.50	10.51	48.846	16.89	22.24	Pass
60	5300	10.98	10.63	11.51	10.54	49.574	16.95	22.24	Pass
64	5320	11.03	10.60	11.08	10.45	48.073	16.82	22.24	Pass
100	5500	11.13	11.05	11.30	11.36	52.874	17.23	23.07	Pass
116	5580	11.28	10.92	11.45	10.38	50.665	17.05	23.07	Pass
140	5700	11.64	11.24	11.18	11.01	53.633	17.29	23.07	Pass
*144 (U-NII-2C)	5720	10.51	10.03	10.53	10.06	44.781	16.51	22.02	Pass
*144 (U-NII-3)	5720	5.02	4.55	5.02	4.58	12.648	11.02	29.55	Pass
149	5745	23.03	22.80	23.27	22.71	790.418	28.98	29.55	Pass
157	5785	23.27	22.74	22.95	22.48	774.509	28.89	29.55	Pass
165	5825	23.28	22.70	23.34	22.83	806.664	29.07	29.55	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 7.61 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.
4. For U-NII-2A, the maximum gain is 7.76 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.76-6)].
5. For U-NII-2C, the maximum gain is 6.93 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.93-6)].
6. For U-NII-3, the maximum gain is 6.45 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.45-6) = 29.55 dBm.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.82	16.95	17.60	17.17	219.743	23.42	28.39	Pass
46	5230	20.45	19.55	20.34	19.48	397.934	26.00	28.39	Pass
54	5270	14.02	13.18	14.29	12.85	92.16	19.65	22.24	Pass
62	5310	12.35	11.52	12.10	11.30	61.077	17.86	22.24	Pass
102	5510	14.41	13.68	14.20	13.57	99.994	20.00	23.07	Pass
110	5550	14.20	13.81	14.39	13.31	99.254	19.97	23.07	Pass
134	5670	14.51	13.50	14.27	12.54	95.313	19.79	23.07	Pass
*142 (U-NII-2C)	5710	14.31	13.22	13.20	12.18	89.445	19.52	23.07	Pass
*142 (U-NII-3)	5710	4.55	3.51	3.48	2.45	9.514	9.78	29.55	Pass
151	5755	23.57	23.02	23.74	22.21	830.89	29.20	29.55	Pass
159	5795	23.91	22.65	23.58	21.57	801.697	29.04	29.55	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 7.61 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.
4. For U-NII-2A, the maximum gain is 7.76 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.76-6)].
5. For U-NII-2C, the maximum gain is 6.93 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.93-6)].
6. For U-NII-3, the maximum gain is 6.45 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.45-6) = 29.55 dBm.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.63	16.80	17.38	17.08	211.558	23.25	28.39	Pass
40	5200	16.97	16.53	17.63	16.73	199.792	23.01	28.39	Pass
48	5240	15.94	15.51	16.53	15.52	155.451	21.92	28.39	Pass
52	5260	10.79	10.64	11.52	10.53	49.071	16.91	22.24	Pass
60	5300	11.01	10.65	11.54	10.56	49.865	16.98	22.24	Pass
64	5320	11.06	10.62	11.11	10.48	48.38	16.85	22.24	Pass
100	5500	11.16	11.08	11.32	11.38	53.177	17.26	23.07	Pass
116	5580	11.30	10.94	11.47	10.41	50.924	17.07	23.07	Pass
140	5700	11.68	11.27	11.21	11.03	54.009	17.32	23.07	Pass
*144 (U-NII-2C)	5720	10.54	10.06	10.55	10.08	45.039	16.54	22.02	Pass
*144 (U-NII-3)	5720	5.04	4.56	5.04	4.60	12.7	11.04	29.55	Pass
149	5745	23.07	22.85	23.30	22.76	798.116	29.02	29.55	Pass
157	5785	23.31	22.80	23.97	22.51	832.532	29.20	29.55	Pass
165	5825	23.34	22.74	23.37	22.85	813.729	29.10	29.55	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 7.61 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.
4. For U-NII-2A, the maximum gain is 7.76 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.76-6)].
5. For U-NII-2C, the maximum gain is 6.93 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.93-6)].
6. For U-NII-3, the maximum gain is 6.45 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.45-6) = 29.55 dBm.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.88	16.99	17.66	17.23	222.569	23.47	28.39	Pass
46	5230	20.48	19.58	20.37	19.51	400.692	26.03	28.39	Pass
54	5270	14.06	13.21	14.31	12.87	92.751	19.67	22.24	Pass
62	5310	12.40	11.60	12.15	11.35	61.884	17.92	22.24	Pass
102	5510	14.43	13.71	14.23	13.61	100.676	20.03	23.07	Pass
110	5550	14.23	13.83	14.42	13.33	99.837	19.99	23.07	Pass
134	5670	14.53	13.52	14.30	12.57	95.857	19.82	23.07	Pass
*142 (U-NII-2C)	5710	14.34	13.29	13.27	12.23	90.554	19.57	23.07	Pass
*142 (U-NII-3)	5710	4.63	3.57	3.56	2.53	9.68	9.86	29.55	Pass
151	5755	23.65	23.10	23.84	22.32	848.624	29.29	29.55	Pass
159	5795	23.96	22.71	23.62	21.60	810.212	29.09	29.55	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 7.61 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.
4. For U-NII-2A, the maximum gain is 7.76 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.76-6)].
5. For U-NII-2C, the maximum gain is 6.93 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.93-6)].
6. For U-NII-3, the maximum gain is 6.45 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.45-6) = 29.55 dBm.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.27	15.54	16.06	15.55	154.431	21.89	28.39	Pass
58	5290	11.94	11.00	11.71	10.79	55.041	17.41	22.24	Pass
106	5530	16.13	15.30	15.84	14.90	144.179	21.59	23.07	Pass
122	5610	17.41	16.75	17.33	15.81	194.578	22.89	23.07	Pass
*138 (U-NII-2C)	5690	17.07	16.33	17.00	16.03	194.17	22.88	23.07	Pass
*138 (U-NII-3)	5690	3.02	2.36	3.03	2.08	7.752	8.89	29.55	Pass
155	5775	20.21	19.74	20.09	18.78	376.746	25.76	29.55	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 7.61 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.
4. For U-NII-2A, the maximum gain is 7.76 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.76-6)].
5. For U-NII-2C, the maximum gain is 6.93 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.93-6)].
6. For U-NII-3, the maximum gain is 6.45 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.45-6) = 29.55 dBm.

802.11ac (VHT80+VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42+58(L)	5210	13.27	12.87	-	-	40.597	16.08	29.49	Pass
42+58(H)	5290	-	-	13.43	12.60	40.226	16.05	22.24	Pass
106+122(L)	5530	15.87	14.17	-	-	122.515	20.88	23.07	Pass
106+122(H)	5610	-	-	14.90	14.29				

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 7.61 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.
3. For U-NII-2A, the maximum gain is 7.76 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.76-6)].
4. For U-NII-2C, the maximum gain is 6.93 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.93-6)].

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.66	16.82	17.40	17.11	212.787	23.28	28.39	Pass
40	5200	17.00	16.55	17.65	16.75	200.83	23.03	28.39	Pass
48	5240	15.98	15.54	16.55	15.54	156.433	21.94	28.39	Pass
52	5260	10.82	10.67	11.55	10.56	49.411	16.94	22.24	Pass
60	5300	11.04	10.68	11.55	10.58	50.118	17.00	22.24	Pass
64	5320	11.09	10.64	11.14	10.52	48.714	16.88	22.24	Pass
100	5500	11.20	11.11	11.35	11.42	53.608	17.29	23.07	Pass
116	5580	11.32	10.97	11.50	10.42	51.195	17.09	23.07	Pass
140	5700	11.72	11.30	11.25	11.05	54.419	17.36	23.07	Pass
*144 (U-NII-2C)	5720	10.57	10.08	10.58	10.10	45.302	16.56	22.02	Pass
*144 (U-NII-3)	5720	5.07	4.59	5.07	4.62	12.781	11.07	29.55	Pass
149	5745	23.12	22.90	23.35	22.79	806.48	29.07	29.55	Pass
157	5785	23.35	22.84	24.00	22.55	839.657	29.24	29.55	Pass
165	5825	23.37	22.77	23.41	22.89	820.321	29.14	29.55	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 7.61 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.
4. For U-NII-2A, the maximum gain is 7.76 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.76-6)].
5. For U-NII-2C, the maximum gain is 6.93 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.93-6)].
6. For U-NII-3, the maximum gain is 6.45 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.45-6) = 29.55 dBm.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.92	17.03	17.69	17.26	224.37	23.51	28.39	Pass
46	5230	20.50	19.61	20.39	19.54	402.959	26.05	28.39	Pass
54	5270	14.09	13.23	14.34	12.90	93.345	19.70	22.24	Pass
62	5310	12.44	11.65	12.19	11.41	62.554	17.96	22.24	Pass
102	5510	14.46	13.74	14.25	13.62	101.206	20.05	23.07	Pass
110	5550	14.25	13.85	14.45	13.35	100.362	20.02	23.07	Pass
134	5670	14.56	13.55	14.32	12.60	96.459	19.84	23.07	Pass
*142 (U-NII-2C)	5710	14.36	13.30	13.29	12.26	90.961	19.59	23.07	Pass
*142 (U-NII-3)	5710	4.65	3.59	3.58	2.56	9.729	9.88	29.55	Pass
151	5755	23.71	23.26	23.91	22.41	867.017	29.38	29.55	Pass
159	5795	24.01	22.77	23.69	21.63	820.432	29.14	29.55	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 7.61 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.
4. For U-NII-2A, the maximum gain is 7.76 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.76-6)].
5. For U-NII-2C, the maximum gain is 6.93 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.93-6)].
6. For U-NII-3, the maximum gain is 6.45 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.45-6) = 29.55 dBm.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.32	15.60	16.12	15.62	156.564	21.95	28.39	Pass
58	5290	11.98	11.05	11.78	10.85	55.739	17.46	22.24	Pass
106	5530	16.20	15.35	15.90	14.94	146.057	21.65	23.07	Pass
122	5610	17.46	16.81	17.42	15.85	197.359	22.95	23.07	Pass
*138 (U-NII-2C)	5690	17.10	16.45	17.03	16.16	197.463	22.95	23.07	Pass
*138 (U-NII-3)	5690	3.04	2.58	3.05	2.11	7.878	8.96	29.55	Pass
155	5775	20.25	19.80	20.12	18.84	380.786	25.81	29.55	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 7.61 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.
4. For U-NII-2A, the maximum gain is 7.76 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.76-6)].
5. For U-NII-2C, the maximum gain is 6.93 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.93-6)].
6. For U-NII-3, the maximum gain is 6.45 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.45-6) = 29.55 dBm.

802.11ax (HE80+HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42+58(L)	5210	13.30	12.91	-	-	40.923	16.12	29.49	Pass
42+58(H)	5290	-	-	13.50	12.64	40.753	16.10	22.24	Pass
106+122(L)	5530	15.90	14.22	-	-	123.879	20.93	23.07	Pass
106+122(H)	5610	-	-	14.95	14.36				

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 7.61 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.61-6) = 28.39 dBm.
3. For U-NII-2A, the maximum gain is 7.76 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.76-6)].
4. For U-NII-2C, the maximum gain is 6.93 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.93-6)].

802.11n (HT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.60	16.78	17.36	17.06	210.453	23.23	23.46	Pass
40	5200	16.94	16.51	17.61	16.70	198.653	22.98	23.46	Pass
48	5240	15.92	15.48	16.51	15.50	154.655	21.89	23.46	Pass
52	5260	10.77	10.62	11.50	10.51	48.846	16.89	17.41	Pass
60	5300	10.98	10.63	11.51	10.54	49.574	16.95	17.41	Pass
64	5320	11.03	10.60	11.08	10.45	48.073	16.82	17.41	Pass
100	5500	11.13	11.05	11.30	11.36	52.874	17.23	17.65	Pass
116	5580	11.28	10.92	11.45	10.38	50.665	17.05	17.65	Pass
140	5700	11.64	11.24	11.18	11.01	53.633	17.29	17.65	Pass
*144 (U-NII-2C)	5720	10.51	10.03	10.53	10.06	44.781	16.51	16.6	Pass
*144 (U-NII-3)	5720	5.02	4.55	5.02	4.58	12.648	11.02	24.35	Pass
149	5745	18.06	17.82	18.29	17.71	250.98	24.00	24.35	Pass
157	5785	18.28	17.79	18.92	17.48	261.374	24.17	24.35	Pass
165	5825	18.30	17.71	18.34	17.82	255.396	24.07	24.35	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 12.54 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.54-6) = 23.46 dBm.
4. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.59-6)].
5. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.35-6)].
6. For U-NII-3, the directional gain is 11.65 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.65-6) = 24.35 dBm.

802.11n (HT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.36	16.58	17.18	16.83	200.383	23.02	23.46	Pass
46	5230	17.84	16.97	17.73	16.84	218.186	23.39	23.46	Pass
54	5270	11.51	10.65	11.76	10.30	51.484	17.12	17.41	Pass
62	5310	11.82	11.00	11.58	10.78	54.15	17.34	17.41	Pass
102	5510	11.85	11.16	11.66	11.06	55.792	17.47	17.65	Pass
110	5550	11.68	11.26	11.87	10.73	55.301	17.43	17.65	Pass
134	5670	11.94	10.97	11.73	10.02	53.074	17.25	17.65	Pass
*142 (U-NII-2C)	5710	12.28	11.26	11.20	10.23	56.568	17.53	17.65	Pass
*142 (U-NII-3)	5710	2.58	1.54	1.51	0.51	6.052	7.82	24.35	Pass
151	5755	18.61	18.03	18.80	17.23	264.846	24.23	24.35	Pass
159	5795	18.90	17.64	18.57	16.53	252.624	24.02	24.35	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 12.54 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.54-6) = 23.46 dBm.
4. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.59-6)].
5. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.35-6)].
6. For U-NII-3, the directional gain is 11.65 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.65-6) = 24.35 dBm.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.63	16.80	17.38	17.08	211.558	23.25	23.46	Pass
40	5200	16.97	16.53	17.63	16.73	199.792	23.01	23.46	Pass
48	5240	15.94	15.51	16.53	15.52	155.451	21.92	23.46	Pass
52	5260	10.79	10.64	11.52	10.53	49.071	16.91	17.41	Pass
60	5300	11.01	10.65	11.54	10.56	49.865	16.98	17.41	Pass
64	5320	11.06	10.62	11.11	10.48	48.38	16.85	17.41	Pass
100	5500	11.16	11.08	11.32	11.38	53.177	17.26	17.65	Pass
116	5580	11.30	10.94	11.47	10.41	50.924	17.07	17.65	Pass
140	5700	11.68	11.27	11.21	11.03	54.009	17.32	17.65	Pass
*144 (U-NII-2C)	5720	10.54	10.06	10.55	10.08	45.039	16.54	16.6	Pass
*144 (U-NII-3)	5720	5.04	4.56	5.04	4.60	12.7	11.04	24.35	Pass
149	5745	18.08	17.84	18.31	17.74	252.276	24.02	24.35	Pass
157	5785	18.31	17.80	18.94	17.51	262.727	24.20	24.35	Pass
165	5825	18.32	17.73	18.36	17.84	256.575	24.09	24.35	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 12.54 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.54-6) = 23.46 dBm.
4. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.59-6)].
5. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.35-6)].
6. For U-NII-3, the directional gain is 11.65 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.65-6) = 24.35 dBm.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.38	16.60	17.21	16.85	201.429	23.04	23.46	Pass
46	5230	17.88	17.00	17.75	16.87	219.702	23.42	23.46	Pass
54	5270	11.53	10.68	11.78	10.32	51.749	17.14	17.41	Pass
62	5310	11.84	11.03	11.60	10.81	54.457	17.36	17.41	Pass
102	5510	11.88	11.19	11.68	11.09	56.145	17.49	17.65	Pass
110	5550	11.70	11.28	11.90	10.76	55.619	17.45	17.65	Pass
134	5670	11.97	11.00	11.76	10.04	53.418	17.28	17.65	Pass
*142 (U-NII-2C)	5710	12.30	11.28	11.23	10.24	56.836	17.55	17.65	Pass
*142 (U-NII-3)	5710	2.60	1.57	1.53	0.54	6.087	7.84	24.35	Pass
151	5755	18.63	18.06	18.83	17.27	266.636	24.26	24.35	Pass
159	5795	18.93	17.67	18.60	16.55	254.271	24.05	24.35	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 12.54 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.54-6) = 23.46 dBm.
4. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.59-6)].
5. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.35-6)].
6. For U-NII-3, the directional gain is 11.65 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.65-6) = 24.35 dBm.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.27	15.54	16.06	15.55	154.431	21.89	23.46	Pass
58	5290	11.50	10.65	11.40	10.47	50.687	17.05	17.41	Pass
106	5530	12.13	11.32	11.84	10.92	57.518	17.60	17.65	Pass
122	5610	11.91	11.30	11.88	10.33	55.22	17.42	17.65	Pass
*138 (U-NII-2C)	5690	11.63	11.00	11.61	10.71	56.331	17.51	17.65	Pass
*138 (U-NII-3)	5690	-2.48	-2.94	-2.49	-3.44	2.204	3.43	24.35	Pass
155	5775	18.70	18.27	18.57	17.31	267.046	24.27	24.35	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 12.54 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.54-6) = 23.46 dBm.
4. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.59-6)].
5. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.35-6)].
6. For U-NII-3, the directional gain is 11.65 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.65-6) = 24.35 dBm.

802.11ac (VHT80+VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42+58(L)	5210	13.27	12.87	-	-	40.597	16.08	26.97	Pass
42+58(H)	5290	-	-	13.43	12.60	40.226	16.05	19.92	Pass
106+122(L)	5530	12.37	10.67	-	-	54.876	17.39	17.65	Pass
106+122(H)	5610	-	-	11.43	10.81				

Notes:

1. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
2. For U-NII-1, the directional gain is 12.54 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.54-6) = 23.46 dBm.
3. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.59-6)].
4. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.35-6)].

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.66	16.82	17.40	17.11	212.787	23.28	23.46	Pass
40	5200	17.00	16.55	17.65	16.75	200.83	23.03	23.46	Pass
48	5240	15.98	15.54	16.55	15.54	156.433	21.94	23.46	Pass
52	5260	10.82	10.67	11.55	10.56	49.411	16.94	17.41	Pass
60	5300	11.04	10.68	11.55	10.58	50.118	17.00	17.41	Pass
64	5320	11.09	10.64	11.14	10.52	48.714	16.88	17.41	Pass
100	5500	11.20	11.11	11.35	11.42	53.608	17.29	17.65	Pass
116	5580	11.32	10.97	11.50	10.42	51.195	17.09	17.65	Pass
140	5700	11.72	11.30	11.25	11.05	54.419	17.36	17.65	Pass
*144 (U-NII-2C)	5720	10.57	10.08	10.58	10.10	45.302	16.56	16.6	Pass
*144 (U-NII-3)	5720	5.07	4.59	5.07	4.62	12.781	11.07	24.35	Pass
149	5745	18.10	17.87	18.34	17.76	253.738	24.04	24.35	Pass
157	5785	18.34	17.82	18.97	17.53	264.278	24.22	24.35	Pass
165	5825	18.34	17.75	18.38	17.87	257.9	24.11	24.35	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 12.54 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.54-6) = 23.46 dBm.
4. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.59-6)].
5. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.35-6)].
6. For U-NII-3, the directional gain is 11.65 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.65-6) = 24.35 dBm.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.41	16.62	17.23	16.88	202.598	23.07	23.46	Pass
46	5230	17.91	17.02	17.78	16.90	221.109	23.45	23.46	Pass
54	5270	11.55	10.71	11.80	10.34	52.015	17.16	17.41	Pass
62	5310	11.87	11.06	11.63	10.83	54.807	17.39	17.41	Pass
102	5510	11.90	11.21	11.71	11.11	56.438	17.52	17.65	Pass
110	5550	11.73	11.30	11.92	10.79	55.938	17.48	17.65	Pass
134	5670	12.00	11.02	11.78	10.07	53.725	17.30	17.65	Pass
*142 (U-NII-2C)	5710	12.34	11.30	11.26	10.26	57.213	17.57	17.65	Pass
*142 (U-NII-3)	5710	2.62	1.59	1.56	0.56	6.118	7.87	24.35	Pass
151	5755	18.65	18.08	18.84	17.30	267.814	24.28	24.35	Pass
159	5795	18.96	17.70	18.62	16.58	255.866	24.08	24.35	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 12.54 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.54-6) = 23.46 dBm.
4. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.59-6)].
5. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.35-6)].
6. For U-NII-3, the directional gain is 11.65 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.65-6) = 24.35 dBm.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.32	15.60	16.12	15.62	156.564	21.95	23.46	Pass
58	5290	11.53	10.68	11.42	10.49	50.98	17.07	17.41	Pass
106	5530	12.16	11.35	11.87	10.94	57.888	17.63	17.65	Pass
122	5610	11.93	11.31	11.90	10.35	55.444	17.44	17.65	Pass
*138 (U-NII-2C)	5690	11.70	11.02	11.63	10.73	56.77	17.54	17.65	Pass
*138 (U-NII-3)	5690	-2.46	-2.92	-2.47	-3.42	2.2142	3.45	24.35	Pass
155	5775	18.73	18.30	18.60	17.34	268.897	24.30	24.35	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 12.54 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.54-6) = 23.46 dBm.
4. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.59-6)].
5. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.35-6)].
6. For U-NII-3, the directional gain is 11.65 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.65-6) = 24.35 dBm.

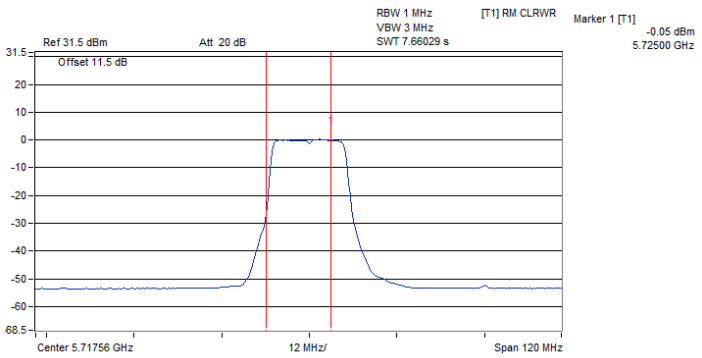
802.11ax (HE80+HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42+58(L)	5210	13.30	12.91	-	-	40.923	16.12	26.97	Pass
42+58(H)	5290	-	-	13.50	12.64	40.753	16.10	19.92	Pass
106+122(L)	5530	12.40	10.70	-	-	55.197	17.42	17.65	Pass
106+122(H)	5610	-	-	11.45	10.83				

Notes:

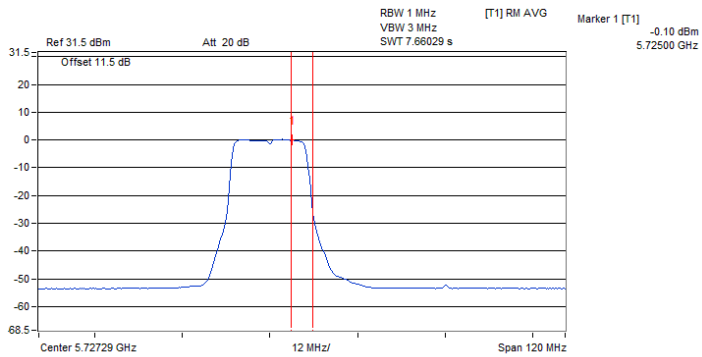
1. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
2. For U-NII-1, the directional gain is 12.54 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.54-6) = 23.46 dBm.
3. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.59-6)].
4. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.35-6)].

Spectrum Plot for channel straddling



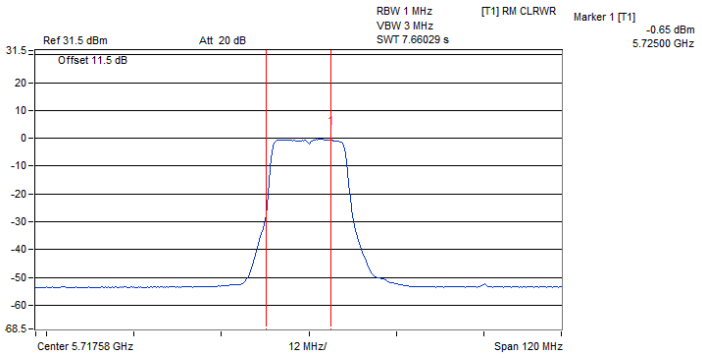
TX Channel Bandwidth 14.88 MHz Power 10.78 dBm

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



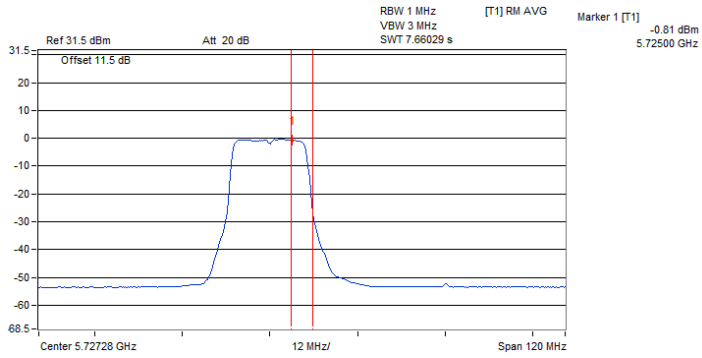
TX Channel Bandwidth 4.57 MHz Power 4.34 dBm

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



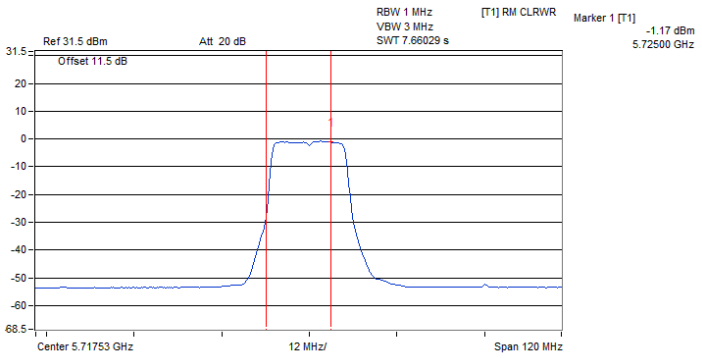
TX Channel Bandwidth 14.84 MHz Power 10.18 dBm

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



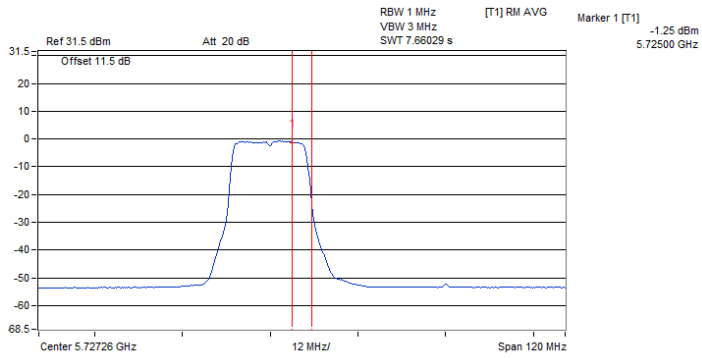
TX Channel Bandwidth 4.56 MHz Power 3.73 dBm

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



TX Channel Bandwidth 14.93 MHz Power 9.74 dBm

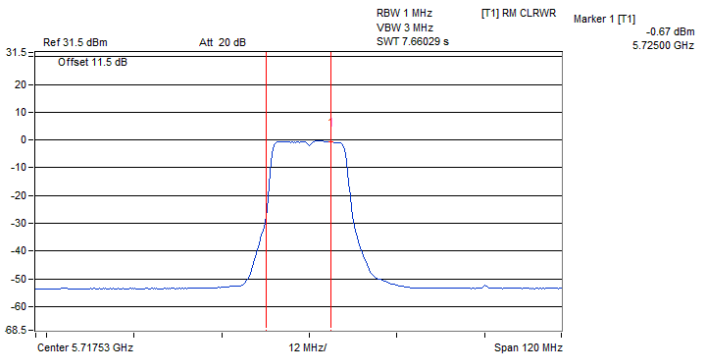
802.11a / Chain 2 : CH 144 (U-NII-2C)



TX Channel Bandwidth 4.53 MHz Power 3.29 dBm

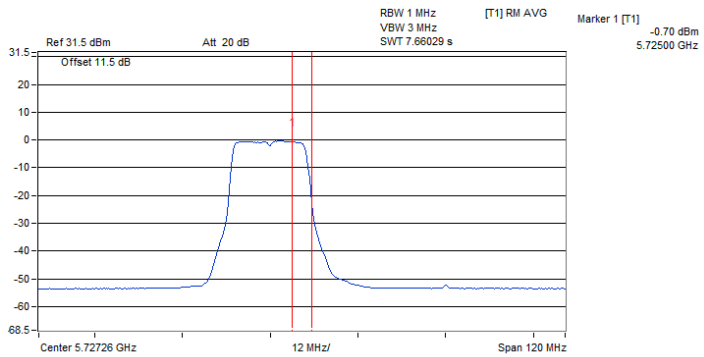
802.11a / Chain 2 : CH 144 (U-NII-3)

Spectrum Plot for channel straddling



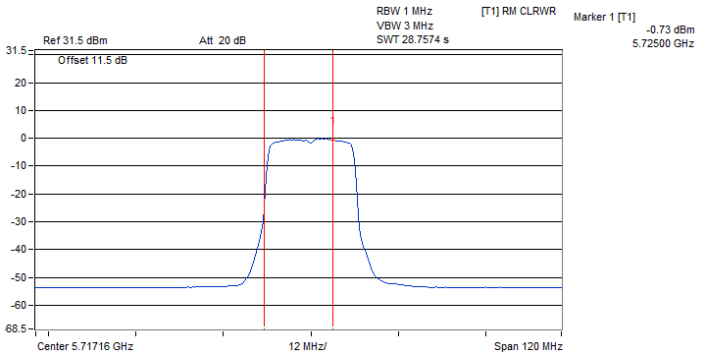
TX Channel Bandwidth 14.93 MHz Power 10.24 dBm

802.11a / Chain 3 : CH 144 (U-NII-2C)



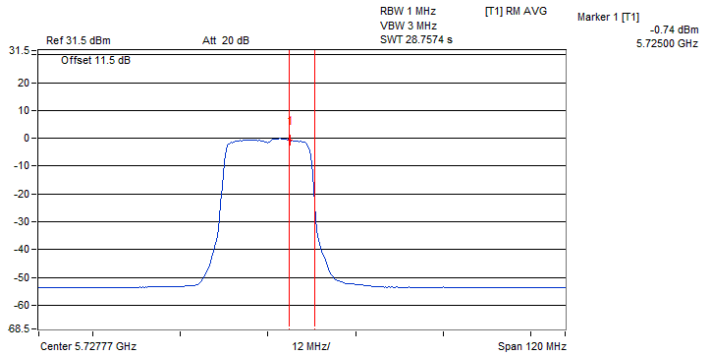
TX Channel Bandwidth 4.51 MHz Power 3.8 dBm

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



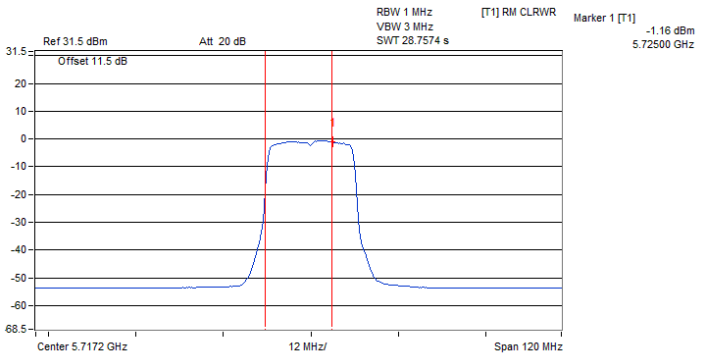
TX Channel Bandwidth 15.68 MHz Power 10.57 dBm

802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)



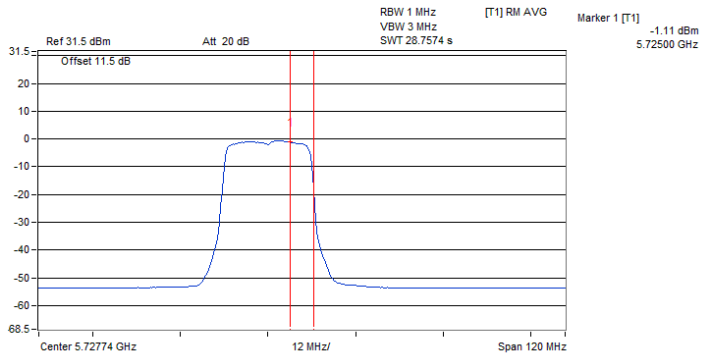
TX Channel Bandwidth 5.54 MHz Power 5.07 dBm

802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)



TX Channel Bandwidth 15.6 MHz Power 10.08 dBm

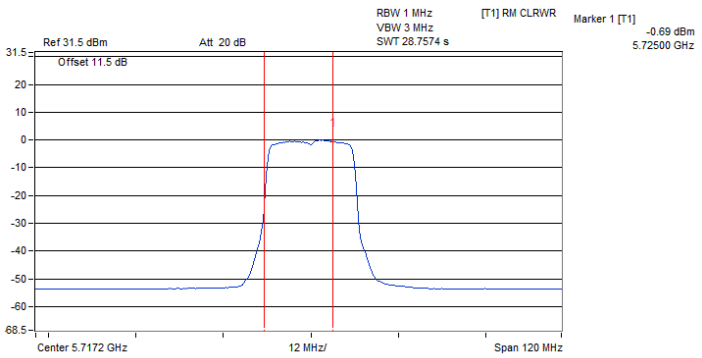
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)



TX Channel Bandwidth 5.49 MHz Power 4.59 dBm

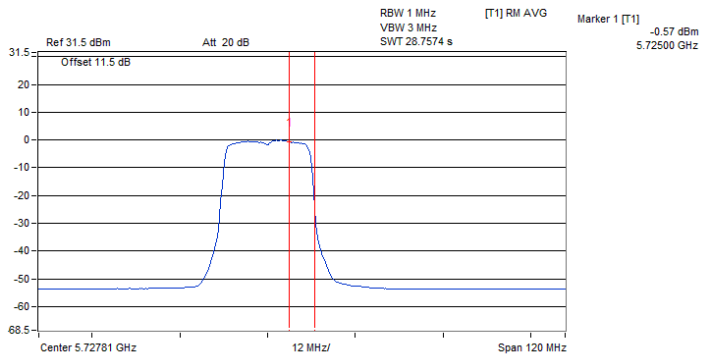
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)

Spectrum Plot for channel straddling



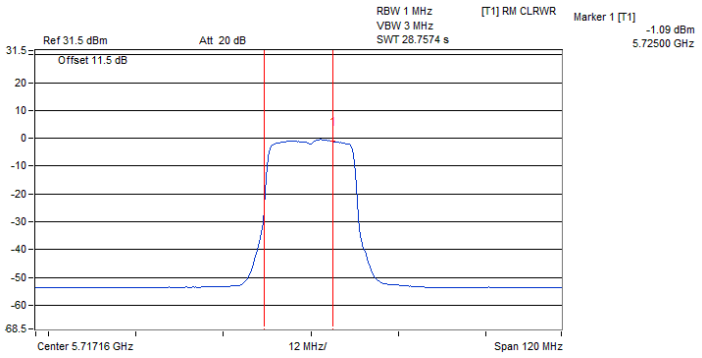
TX Channel Bandwidth 15.61 MHz Power 10.58 dBm

802.11ax (HE20) / Chain 2 : CH 144 (U-NII-2C)



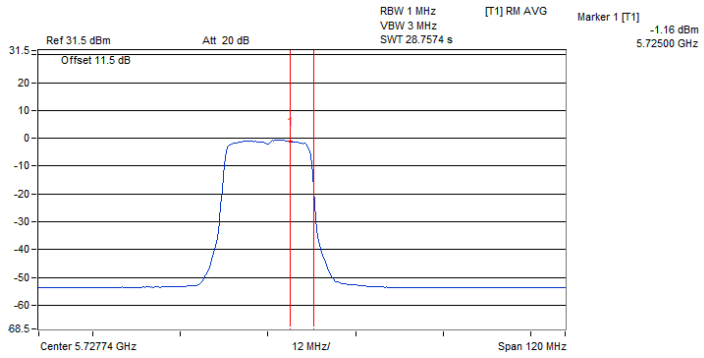
TX Channel Bandwidth 5.61 MHz Power 5.07 dBm

802.11ax (HE20) / Chain 2 : CH 144 (U-NII-3)



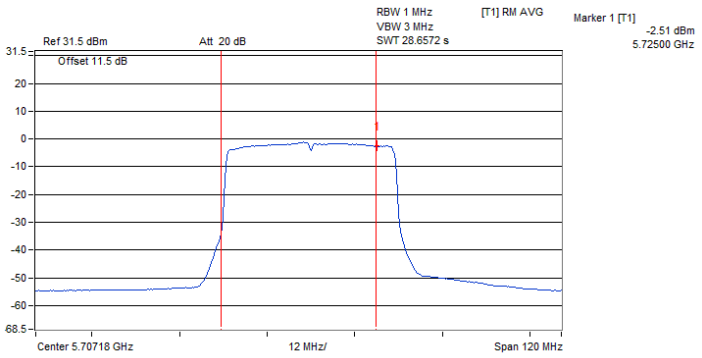
TX Channel Bandwidth 15.67 MHz Power 10.1 dBm

802.11ax (HE20) / Chain 3 : CH 144 (U-NII-2C)



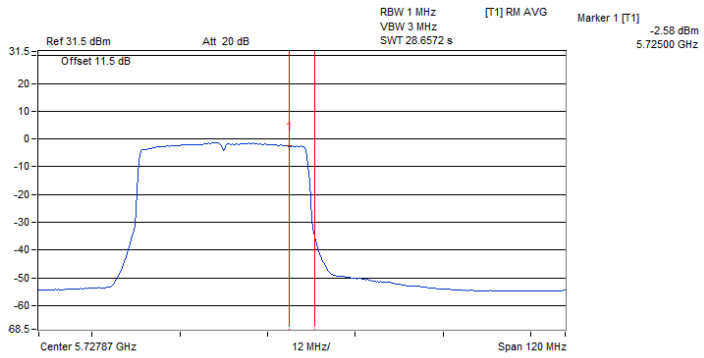
TX Channel Bandwidth 5.48 MHz Power 4.62 dBm

802.11ax (HE20) / Chain 3 : CH 144 (U-NII-3)



TX Channel Bandwidth 35.63 MHz Power 14.36 dBm

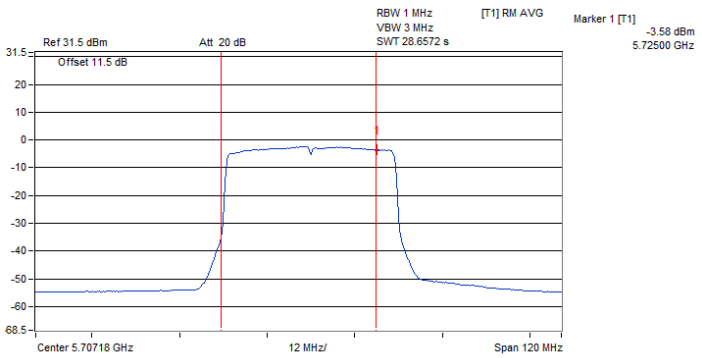
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)



TX Channel Bandwidth 5.74 MHz Power 4.65 dBm

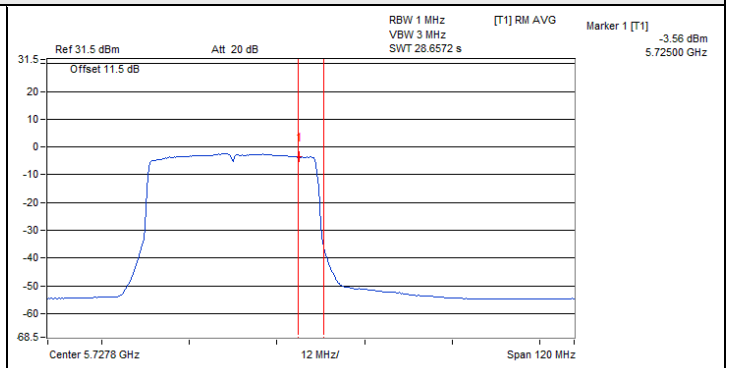
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)

Spectrum Plot for channel straddling



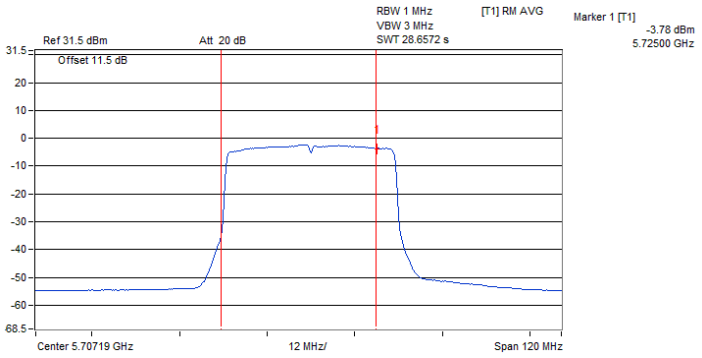
TX Channel Bandwidth 35.64 MHz Power 13.3 dBm

802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)



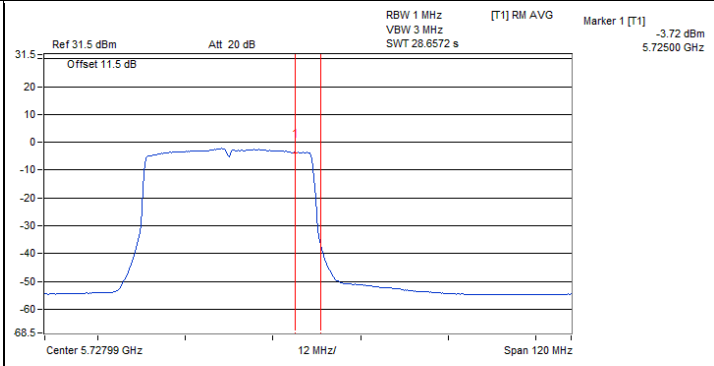
TX Channel Bandwidth 5.59 MHz Power 3.59 dBm

802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)



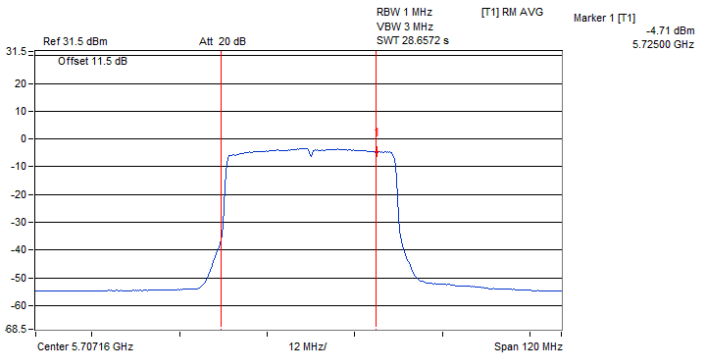
TX Channel Bandwidth 35.62 MHz Power 13.29 dBm

802.11ax (HE40) / Chain 2 : CH 142 (U-NII-2C)



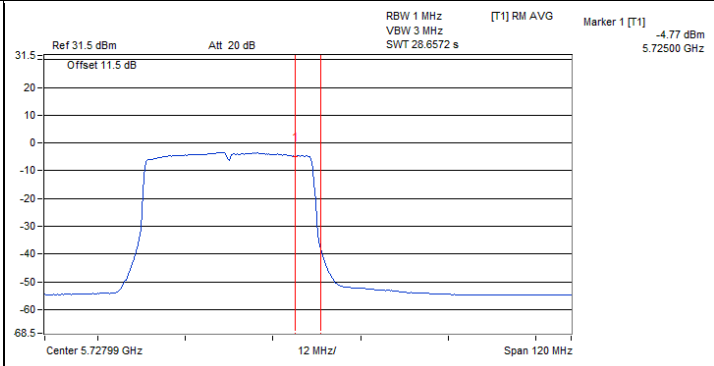
TX Channel Bandwidth 5.97 MHz Power 3.58 dBm

802.11ax (HE40) / Chain 2 : CH 142 (U-NII-3)



TX Channel Bandwidth 35.69 MHz Power 12.26 dBm

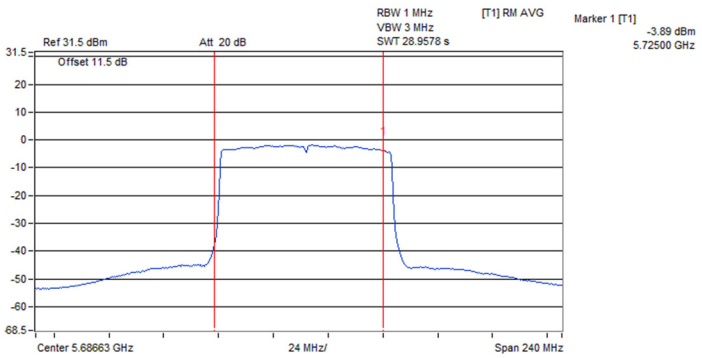
802.11ax (HE40) / Chain 3 : CH 142 (U-NII-2C)



TX Channel Bandwidth 5.98 MHz Power 2.56 dBm

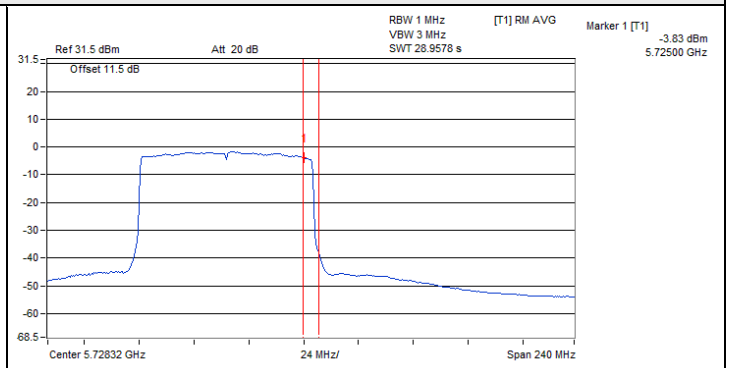
802.11ax (HE40) / Chain 3 : CH 142 (U-NII-3)

Spectrum Plot for channel straddling



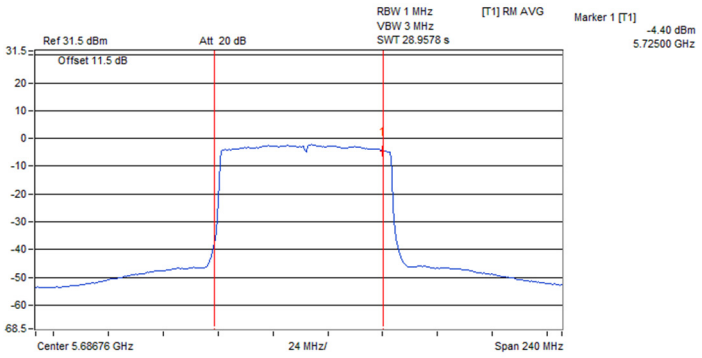
TX Channel Bandwidth 76.74 MHz Power 17.1 dBm

802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



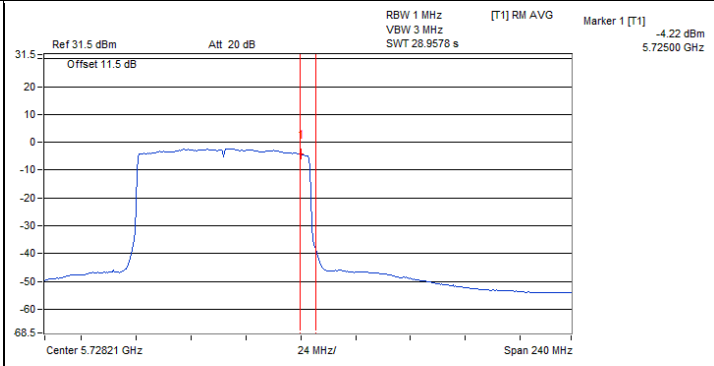
TX Channel Bandwidth 6.63 MHz Power 3.04 dBm

802.11ax (HE80) / Chain 0 : CH 138 (U-NII-3)



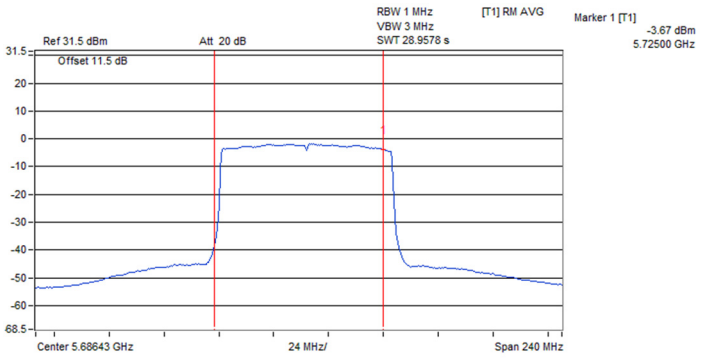
TX Channel Bandwidth 76.47 MHz Power 16.45 dBm

802.11ax (HE80) / Chain 1 : CH 138 (U-NII-2C)



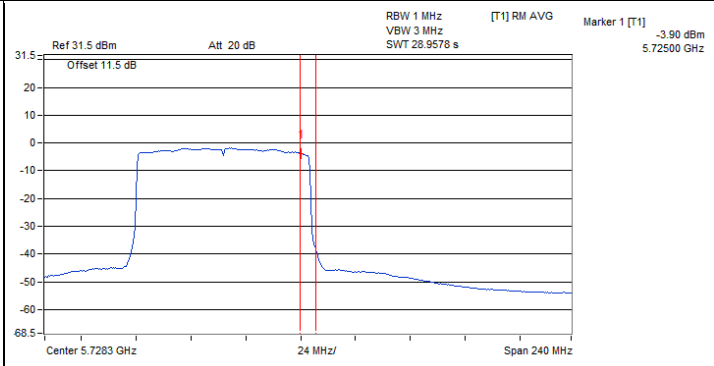
TX Channel Bandwidth 6.43 MHz Power 2.58 dBm

802.11ax (HE80) / Chain 1 : CH 138 (U-NII-3)



TX Channel Bandwidth 77.13 MHz Power 17.03 dBm

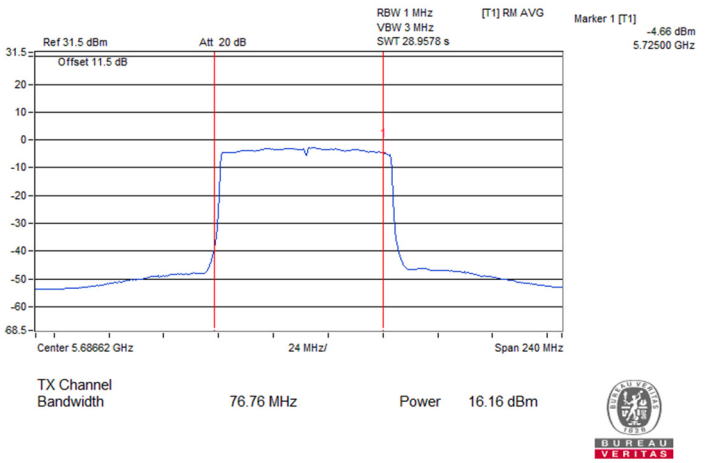
802.11ax (HE80) / Chain 2 : CH 138 (U-NII-2C)



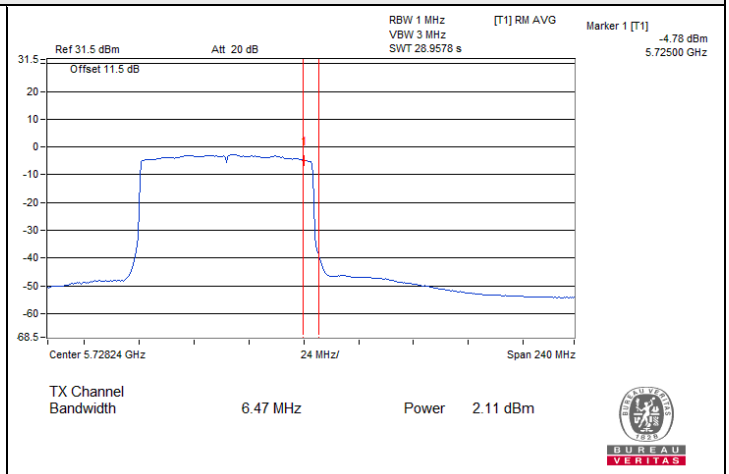
TX Channel Bandwidth 6.61 MHz Power 3.05 dBm

802.11ax (HE80) / Chain 2 : CH 138 (U-NII-3)

Spectrum Plot for channel straddling



802.11ax (HE80) / Chain 3 : CH 138 (U-NII-2C)



802.11ax (HE80) / Chain 3 : CH 138 (U-NII-3)

Input Power:	55 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang

Mode B

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	18.10	17.41	17.92	17.58	238.87	23.78	29.72	Pass
40	5200	17.51	17.17	17.83	17.30	222.86	23.48	29.72	Pass
48	5240	17.97	17.36	17.91	17.42	234.121	23.69	29.72	Pass
52	5260	12.30	11.59	12.16	11.24	61.152	17.86	23.85	Pass
60	5300	12.23	12.05	12.03	11.40	62.506	17.96	23.84	Pass
64	5320	12.42	11.98	11.90	11.48	62.783	17.98	23.81	Pass
100	5500	11.47	11.21	11.45	11.32	54.757	17.38	23.04	Pass
116	5580	11.63	11.62	11.48	10.73	54.967	17.40	23.06	Pass
140	5700	11.55	11.30	11.47	10.70	53.556	17.29	23.13	Pass
*144 (U-NII-2C)	5720	10.78	10.18	9.74	10.24	47.09	16.73	21.94	Pass
*144 (U-NII-3)	5720	4.34	3.73	3.29	3.80	10.677	10.28	28.84	Pass
149	5745	22.94	22.90	22.81	22.58	763.892	28.83	28.84	Pass
157	5785	23.01	22.72	22.98	21.66	732.219	28.65	28.84	Pass
165	5825	22.72	22.33	22.73	22.40	719.349	28.57	28.84	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 6.28 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.28-6) = 29.72 dBm.
4. For U-NII-2A, the maximum gain is 6.08 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
5. For U-NII-2C, the maximum gain is 6.78 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.78-6)].
6. For U-NII-3, the maximum gain is 7.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.16-6) = 28.84 dBm.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.60	16.77	17.35	17.06	210.218	23.23	29.72	Pass
40	5200	17.46	17.01	18.10	17.20	222.999	23.48	29.72	Pass
48	5240	17.44	17.00	18.02	17.00	219.087	23.41	29.72	Pass
52	5260	11.28	11.12	12.00	11.01	54.837	17.39	23.92	Pass
60	5300	11.48	11.13	12.03	11.03	55.668	17.46	23.92	Pass
64	5320	12.03	11.60	12.07	11.47	60.548	17.82	23.92	Pass
100	5500	11.15	11.05	11.28	11.37	52.903	17.23	23.22	Pass
116	5580	11.27	10.91	11.46	10.37	50.613	17.04	23.22	Pass
140	5700	11.84	11.03	10.90	11.12	53.197	17.26	23.22	Pass
*144 (U-NII-2C)	5720	9.94	9.43	9.93	9.48	39.116	15.92	22.17	Pass
*144 (U-NII-3)	5720	4.64	4.13	4.62	4.12	11.499	10.61	28.84	Pass
149	5745	22.55	22.41	22.79	22.26	712.443	28.53	28.84	Pass
157	5785	22.76	22.36	22.45	22.00	695.268	28.42	28.84	Pass
165	5825	22.80	22.24	22.84	22.29	719.783	28.57	28.84	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 6.28 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.28-6) = 29.72 dBm.
4. For U-NII-2A, the maximum gain is 6.08 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
5. For U-NII-2C, the maximum gain is 6.78 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.78-6)].
6. For U-NII-3, the maximum gain is 7.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.16-6) = 28.84 dBm.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.30	16.45	17.01	16.61	193.909	22.88	29.72	Pass
46	5230	20.41	19.52	20.25	19.42	392.861	25.94	29.72	Pass
54	5270	14.97	14.18	15.41	13.87	116.719	20.67	23.92	Pass
62	5310	13.81	13.12	13.50	12.81	86.041	19.35	23.92	Pass
102	5510	14.36	13.72	14.22	13.58	100.068	20.00	23.22	Pass
110	5550	14.20	13.81	14.41	13.30	99.332	19.97	23.22	Pass
134	5670	15.01	14.01	14.77	13.06	107.094	20.30	23.22	Pass
*142 (U-NII-2C)	5710	14.30	13.23	13.25	12.20	89.764	19.53	23.22	Pass
*142 (U-NII-3)	5710	4.61	3.54	3.53	2.51	9.624	9.83	28.84	Pass
151	5755	23.03	22.65	23.25	21.81	748.04	28.74	28.84	Pass
159	5795	23.41	22.21	23.05	21.07	715.397	28.55	28.84	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 6.28 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.28-6) = 29.72 dBm.
4. For U-NII-2A, the maximum gain is 6.08 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
5. For U-NII-2C, the maximum gain is 6.78 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.78-6)].
6. For U-NII-3, the maximum gain is 7.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.16-6) = 28.84 dBm.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.63	16.80	17.38	17.08	211.558	23.25	29.72	Pass
40	5200	17.48	17.03	18.13	17.23	224.299	23.51	29.72	Pass
48	5240	17.46	17.02	18.04	17.02	220.098	23.43	29.72	Pass
52	5260	11.30	11.14	12.03	11.04	55.156	17.42	23.92	Pass
60	5300	11.51	11.16	12.04	11.06	55.98	17.48	23.92	Pass
64	5320	12.06	11.62	12.11	11.50	60.971	17.85	23.92	Pass
100	5500	11.18	11.08	11.31	11.40	53.27	17.26	23.22	Pass
116	5580	11.30	10.94	11.48	10.39	50.906	17.07	23.22	Pass
140	5700	11.87	11.06	10.92	11.14	53.507	17.28	23.22	Pass
*144 (U-NII-2C)	5720	9.97	9.46	9.96	9.50	39.366	15.95	22.17	Pass
*144 (U-NII-3)	5720	4.67	4.16	4.65	4.15	11.579	10.64	28.84	Pass
149	5745	22.60	22.46	22.86	22.31	721.58	28.58	28.84	Pass
157	5785	22.81	22.38	23.51	22.04	748.311	28.74	28.84	Pass
165	5825	22.84	22.30	22.92	22.35	729.809	28.63	28.84	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 6.28 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.28-6) = 29.72 dBm.
4. For U-NII-2A, the maximum gain is 6.08 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
5. For U-NII-2C, the maximum gain is 6.78 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.78-6)].
6. For U-NII-3, the maximum gain is 7.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.16-6) = 28.84 dBm.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.33	16.50	17.07	16.70	196.45	22.93	29.72	Pass
46	5230	20.45	19.58	20.31	19.47	397.61	25.99	29.72	Pass
54	5270	15.00	14.21	15.43	13.90	117.447	20.70	23.92	Pass
62	5310	13.88	13.19	13.55	12.88	87.335	19.41	23.92	Pass
102	5510	14.38	13.74	14.24	13.61	100.582	20.03	23.22	Pass
110	5550	14.23	13.83	14.43	13.32	99.851	19.99	23.22	Pass
134	5670	15.03	14.03	14.80	13.08	107.658	20.32	23.22	Pass
*142 (U-NII-2C)	5710	14.33	13.27	13.26	12.23	90.335	19.56	23.22	Pass
*142 (U-NII-3)	5710	4.63	3.56	3.55	2.53	9.669	9.85	28.84	Pass
151	5755	23.05	22.71	23.27	21.88	754.969	28.78	28.84	Pass
159	5795	23.46	22.25	23.10	21.11	722.996	28.59	28.84	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 6.28 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.28-6) = 29.72 dBm.
4. For U-NII-2A, the maximum gain is 6.08 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
5. For U-NII-2C, the maximum gain is 6.78 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.78-6)].
6. For U-NII-3, the maximum gain is 7.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.16-6) = 28.84 dBm.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.29	15.54	16.05	15.57	154.699	21.89	29.72	Pass
58	5290	11.94	11.00	11.73	10.81	55.165	17.42	23.92	Pass
106	5530	16.70	15.52	16.38	15.36	160.225	22.05	23.22	Pass
122	5610	17.41	16.75	17.33	15.81	194.578	22.89	23.22	Pass
*138 (U-NII-2C)	5690	17.17	16.53	17.10	16.23	200.781	23.03	23.22	Pass
*138 (U-NII-3)	5690	3.02	2.56	3.03	2.07	7.834	8.94	28.84	Pass
155	5775	19.14	18.55	18.88	17.78	290.897	24.64	28.84	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 6.28 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.28-6) = 29.72 dBm.
4. For U-NII-2A, the maximum gain is 6.08 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
5. For U-NII-2C, the maximum gain is 6.78 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.78-6)].
6. For U-NII-3, the maximum gain is 7.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.16-6) = 28.84 dBm.

802.11ac (VHT80+VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42+58(L)	5210	13.27	12.87	-	-	40.597	16.08	30	Pass
42+58(H)	5290	-	-	13.43	12.60	40.226	16.05	23.92	Pass
106+122(L)	5530	15.87	14.17	-	-	122.515	20.88	23.22	Pass
106+122(H)	5610	-	-	14.90	14.29				

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 6.28 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.28-6) = 29.72 dBm.
3. For U-NII-2A, the maximum gain is 6.08 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
4. For U-NII-2C, the maximum gain is 6.78 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.78-6)].

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.66	16.82	17.40	17.11	212.787	23.28	29.72	Pass
40	5200	17.50	17.05	18.15	17.25	225.335	23.53	29.72	Pass
48	5240	17.48	17.04	18.05	17.04	220.967	23.44	29.72	Pass
52	5260	11.32	11.17	12.05	11.06	55.441	17.44	23.92	Pass
60	5300	11.54	11.18	12.05	11.08	56.234	17.50	23.92	Pass
64	5320	12.09	11.64	12.14	11.52	61.328	17.88	23.92	Pass
100	5500	11.20	11.11	11.35	11.42	53.608	17.29	23.22	Pass
116	5580	11.32	10.97	11.50	10.42	51.195	17.09	23.22	Pass
140	5700	11.90	11.09	10.94	11.17	53.849	17.31	23.22	Pass
*144 (U-NII-2C)	5720	9.99	9.49	9.99	9.52	39.593	15.98	22.17	Pass
*144 (U-NII-3)	5720	4.69	4.19	4.68	4.18	11.652	10.66	28.84	Pass
149	5745	22.65	22.51	22.88	22.35	728.195	28.62	28.84	Pass
157	5785	22.85	22.41	23.56	22.09	755.728	28.78	28.84	Pass
165	5825	22.90	22.35	22.97	22.41	739.109	28.69	28.84	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 6.28 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.28-6) = 29.72 dBm.
4. For U-NII-2A, the maximum gain is 6.08 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
5. For U-NII-2C, the maximum gain is 6.78 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.78-6)].
6. For U-NII-3, the maximum gain is 7.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.16-6) = 28.84 dBm.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.41	16.55	17.14	16.74	199.233	22.99	29.72	Pass
46	5230	20.51	19.64	20.37	19.52	402.935	26.05	29.72	Pass
54	5270	15.12	14.23	15.46	13.93	118.867	20.75	23.92	Pass
62	5310	13.95	13.24	13.62	12.94	88.611	19.47	23.92	Pass
102	5510	14.40	13.77	14.27	13.64	101.216	20.05	23.22	Pass
110	5550	14.25	13.85	14.45	13.35	100.362	20.02	23.22	Pass
134	5670	15.06	14.05	14.82	13.10	108.229	20.34	23.22	Pass
*142 (U-NII-2C)	5710	14.36	13.30	13.29	12.26	90.961	19.59	23.22	Pass
*142 (U-NII-3)	5710	4.65	3.59	3.58	2.56	9.729	9.88	28.84	Pass
151	5755	23.11	22.76	23.32	21.92	763.823	28.83	28.84	Pass
159	5795	23.52	22.28	23.15	21.14	730.505	28.64	28.84	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 6.28 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.28-6) = 29.72 dBm.
4. For U-NII-2A, the maximum gain is 6.08 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
5. For U-NII-2C, the maximum gain is 6.78 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.78-6)].
6. For U-NII-3, the maximum gain is 7.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.16-6) = 28.84 dBm.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.32	15.60	16.10	15.62	156.376	21.94	29.72	Pass
58	5290	11.98	11.05	11.78	10.85	55.739	17.46	23.92	Pass
106	5530	16.77	15.56	16.44	15.40	162.238	22.10	23.22	Pass
122	5610	17.46	16.81	17.42	15.85	197.359	22.95	23.22	Pass
*138 (U-NII-2C)	5690	17.20	16.55	17.13	16.26	202.063	23.05	23.22	Pass
*138 (U-NII-3)	5690	3.04	2.58	3.05	2.11	7.878	8.96	28.84	Pass
155	5775	19.18	18.62	18.96	17.85	295.23	24.70	28.84	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 6.28 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.28-6) = 29.72 dBm.
4. For U-NII-2A, the maximum gain is 6.08 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
5. For U-NII-2C, the maximum gain is 6.78 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.78-6)].
6. For U-NII-3, the maximum gain is 7.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.16-6) = 28.84 dBm.

802.11ax (HE80+HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42+58(L)	5210	13.30	12.91	-	-	40.923	16.12	30	Pass
42+58(H)	5290	-	-	13.50	12.64	40.753	16.10	23.92	Pass
106+122(L)	5530	15.90	14.22	-	-	123.879	20.93	23.22	Pass
106+122(H)	5610	-	-	14.95	14.36				

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 6.28 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.28-6) = 29.72 dBm.
3. For U-NII-2A, the maximum gain is 6.08 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
4. For U-NII-2C, the maximum gain is 6.78 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.78-6)].

802.11n (HT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.60	16.77	17.35	17.06	210.218	23.23	24.01	Pass
40	5200	17.46	17.01	18.10	17.20	222.999	23.48	24.01	Pass
48	5240	17.44	17.00	18.02	17.00	219.087	23.41	24.01	Pass
52	5260	11.28	11.12	12.00	11.01	54.837	17.39	18.17	Pass
60	5300	11.48	11.13	12.03	11.03	55.668	17.46	18.17	Pass
64	5320	12.03	11.60	12.07	11.47	60.548	17.82	18.17	Pass
100	5500	11.15	11.05	11.28	11.37	52.903	17.23	17.66	Pass
116	5580	11.27	10.91	11.46	10.37	50.613	17.04	17.66	Pass
140	5700	11.84	11.03	10.90	11.12	53.197	17.26	17.66	Pass
*144 (U-NII-2C)	5720	9.94	9.43	9.93	9.48	39.116	15.92	16.61	Pass
*144 (U-NII-3)	5720	4.64	4.13	4.62	4.12	11.499	10.61	23.27	Pass
149	5745	17.10	16.94	17.33	16.78	202.436	23.06	23.27	Pass
157	5785	17.26	16.83	17.97	16.50	208.735	23.20	23.27	Pass
165	5825	17.34	16.78	17.43	16.82	205.262	23.12	23.27	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[($10^{Chain0/20}$ + $10^{Chain1/20}$ + $10^{Chain2/20}$ + $10^{Chain3/20}$)^2 / 4]
3. For U-NII-1, the directional gain is 11.99 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.99-6) = 24.01 dBm.
4. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.83-6)].
5. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.34-6)].
6. For U-NII-3, the directional gain is 12.73 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.73-6) = 23.27 dBm.

802.11n (HT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.30	16.45	17.01	16.61	193.909	22.88	24.01	Pass
46	5230	18.37	17.56	18.22	17.43	247.433	23.93	24.01	Pass
54	5270	12.48	11.62	12.80	11.28	64.704	18.11	18.17	Pass
62	5310	12.40	11.67	12.03	11.36	61.703	17.90	18.17	Pass
102	5510	11.83	11.18	11.70	11.08	55.977	17.48	17.66	Pass
110	5550	11.68	11.27	11.87	10.78	55.469	17.44	17.66	Pass
134	5670	12.10	11.03	11.88	10.21	54.807	17.39	17.66	Pass
*142 (U-NII-2C)	5710	12.28	11.21	11.23	10.18	56.377	17.51	17.66	Pass
*142 (U-NII-3)	5710	2.58	1.52	1.51	0.48	6.037	7.81	23.27	Pass
151	5755	17.48	17.16	17.65	16.31	208.942	23.20	23.27	Pass
159	5795	17.93	16.73	17.58	15.60	202.772	23.07	23.27	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 11.99 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.99-6) = 24.01 dBm.
4. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.83-6)].
5. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.34-6)].
6. For U-NII-3, the directional gain is 12.73 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.73-6) = 23.27 dBm.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.63	16.80	17.38	17.08	211.558	23.25	24.01	Pass
40	5200	17.48	17.03	18.13	17.23	224.299	23.51	24.01	Pass
48	5240	17.46	17.02	18.04	17.02	220.098	23.43	24.01	Pass
52	5260	11.30	11.14	12.03	11.04	55.156	17.42	18.17	Pass
60	5300	11.51	11.16	12.04	11.06	55.98	17.48	18.17	Pass
64	5320	12.06	11.62	12.11	11.50	60.971	17.85	18.17	Pass
100	5500	11.18	11.08	11.31	11.40	53.27	17.26	17.66	Pass
116	5580	11.30	10.94	11.48	10.39	50.906	17.07	17.66	Pass
140	5700	11.87	11.06	10.92	11.14	53.507	17.28	17.66	Pass
*144 (U-NII-2C)	5720	9.97	9.46	9.96	9.50	39.366	15.95	16.61	Pass
*144 (U-NII-3)	5720	4.67	4.16	4.65	4.15	11.579	10.64	23.27	Pass
149	5745	17.13	16.97	17.35	16.81	203.714	23.09	23.27	Pass
157	5785	17.28	16.86	18.00	16.52	209.956	23.22	23.27	Pass
165	5825	17.37	16.80	17.45	16.84	206.335	23.15	23.27	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 11.99 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.99-6) = 24.01 dBm.
4. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.83-6)].
5. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.34-6)].
6. For U-NII-3, the directional gain is 12.73 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.73-6) = 23.27 dBm.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.33	16.50	17.07	16.70	196.45	22.93	24.01	Pass
46	5230	18.40	17.58	18.24	17.46	248.862	23.96	24.01	Pass
54	5270	12.50	11.63	12.83	11.31	65.045	18.13	18.17	Pass
62	5310	12.42	11.70	12.06	11.38	62.059	17.93	18.17	Pass
102	5510	11.85	11.21	11.72	11.10	56.266	17.50	17.66	Pass
110	5550	11.71	11.31	11.90	10.81	55.884	17.47	17.66	Pass
134	5670	12.13	11.06	11.91	10.23	55.163	17.42	17.66	Pass
*142 (U-NII-2C)	5710	12.33	11.27	11.26	10.23	56.998	17.56	17.66	Pass
*142 (U-NII-3)	5710	2.63	1.56	1.55	0.53	6.1	7.85	23.27	Pass
151	5755	17.51	17.18	17.68	16.32	210.072	23.22	23.27	Pass
159	5795	17.94	16.75	17.61	15.62	203.697	23.09	23.27	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 11.99 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.99-6) = 24.01 dBm.
4. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.83-6)].
5. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.34-6)].
6. For U-NII-3, the directional gain is 12.73 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.73-6) = 23.27 dBm.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.29	15.54	16.05	15.57	154.699	21.89	24.01	Pass
58	5290	11.94	11.00	11.73	10.81	55.165	17.42	18.17	Pass
106	5530	11.80	10.61	11.53	10.64	52.455	17.20	17.66	Pass
122	5610	11.91	11.29	11.87	10.33	55.153	17.42	17.66	Pass
*138 (U-NII-2C)	5690	11.64	11.00	11.57	10.71	56.227	17.50	17.66	Pass
*138 (U-NII-3)	5690	-2.53	-2.94	-2.52	-3.49	2.1876	3.40	23.27	Pass
155	5775	17.61	17.07	17.41	16.31	206.447	23.15	23.27	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 11.99 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.99-6) = 24.01 dBm.
4. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.83-6)].
5. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.34-6)].
6. For U-NII-3, the directional gain is 12.73 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.73-6) = 23.27 dBm.

802.11ac (VHT80+VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42+58(L)	5210	13.27	12.87	-	-	40.597	16.08	27.23	Pass
42+58(H)	5290	-	-	13.43	12.60	40.226	16.05	21.1	Pass
106+122(L)	5530	12.36	10.68	-	-	54.827	17.39	17.66	Pass
106+122(H)	5610	-	-	11.41	10.82				

Notes:

1. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
2. For U-NII-1, the directional gain is 11.99 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.99-6) = 24.01 dBm.
3. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.83-6)].
4. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.34-6)].

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.66	16.82	17.40	17.11	212.787	23.28	24.01	Pass
40	5200	17.50	17.05	18.15	17.25	225.335	23.53	24.01	Pass
48	5240	17.48	17.04	18.05	17.04	220.967	23.44	24.01	Pass
52	5260	11.32	11.17	12.05	11.06	55.441	17.44	18.17	Pass
60	5300	11.54	11.18	12.05	11.08	56.234	17.50	18.17	Pass
64	5320	12.09	11.64	12.14	11.52	61.328	17.88	18.17	Pass
100	5500	11.20	11.11	11.35	11.42	53.608	17.29	17.66	Pass
116	5580	11.32	10.97	11.50	10.42	51.195	17.09	17.66	Pass
140	5700	11.90	11.09	10.94	11.17	53.849	17.31	17.66	Pass
*144 (U-NII-2C)	5720	9.99	9.49	9.99	9.52	39.593	15.98	16.61	Pass
*144 (U-NII-3)	5720	4.69	4.19	4.68	4.18	11.652	10.66	23.27	Pass
149	5745	17.15	17.00	17.38	16.83	204.895	23.12	23.27	Pass
157	5785	17.31	16.88	18.02	16.54	211.048	23.24	23.27	Pass
165	5825	17.40	16.82	17.47	16.88	207.638	23.17	23.27	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 11.99 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.99-6) = 24.01 dBm.
4. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.83-6)].
5. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.34-6)].
6. For U-NII-3, the directional gain is 12.73 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.73-6) = 23.27 dBm.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.41	16.55	17.14	16.74	199.233	22.99	24.01	Pass
46	5230	18.43	17.61	18.30	17.47	250.795	23.99	24.01	Pass
54	5270	12.52	11.64	12.86	11.34	65.387	18.15	18.17	Pass
62	5310	12.43	11.72	12.10	11.41	62.412	17.95	18.17	Pass
102	5510	11.88	11.24	11.74	11.13	56.621	17.53	17.66	Pass
110	5550	11.73	11.34	11.92	10.83	56.174	17.50	17.66	Pass
134	5670	12.16	11.09	11.93	10.25	55.485	17.44	17.66	Pass
*142 (U-NII-2C)	5710	12.34	11.29	11.26	10.28	57.232	17.58	17.66	Pass
*142 (U-NII-3)	5710	2.66	1.61	1.61	0.58	6.166	7.90	23.27	Pass
151	5755	17.53	17.20	17.72	16.34	211.313	23.25	23.27	Pass
159	5795	17.97	16.78	17.63	15.64	204.891	23.12	23.27	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 11.99 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.99-6) = 24.01 dBm.
4. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.83-6)].
5. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.34-6)].
6. For U-NII-3, the directional gain is 12.73 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.73-6) = 23.27 dBm.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.32	15.60	16.10	15.62	156.376	21.94	24.01	Pass
58	5290	11.98	11.05	11.78	10.85	55.739	17.46	18.17	Pass
106	5530	11.83	10.63	11.54	10.67	52.726	17.22	17.66	Pass
122	5610	11.93	11.31	11.90	10.35	55.444	17.44	17.66	Pass
*138 (U-NII-2C)	5690	11.70	11.02	11.63	10.73	56.77	17.54	17.66	Pass
*138 (U-NII-3)	5690	-2.46	-2.92	-2.51	-3.42	2.2087	3.44	23.27	Pass
155	5775	17.63	17.10	17.43	16.33	207.518	23.17	23.27	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 11.99 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.99-6) = 24.01 dBm.
4. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.83-6)].
5. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.34-6)].
6. For U-NII-3, the directional gain is 12.73 dBi > 6 dBi, so the output power limit shall be reduced to 30-(12.73-6) = 23.27 dBm.

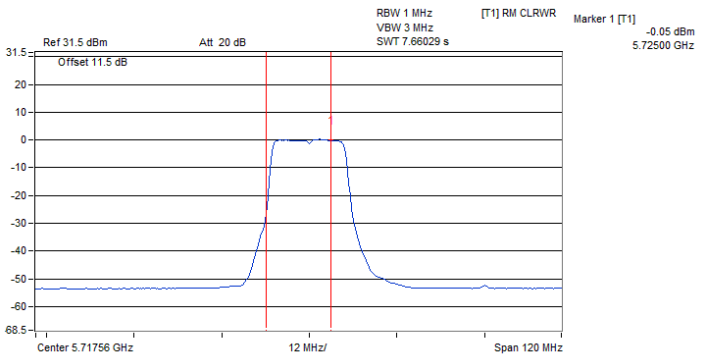
802.11ax (HE80+HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42+58(L)	5210	13.30	12.91	-	-	40.923	16.12	27.23	Pass
42+58(H)	5290	-	-	13.50	12.64	40.753	16.10	21.1	Pass
106+122(L)	5530	12.38	10.71	-	-	55.08	17.41	17.66	Pass
106+122(H)	5610	-	-	11.43	10.83				

Notes:

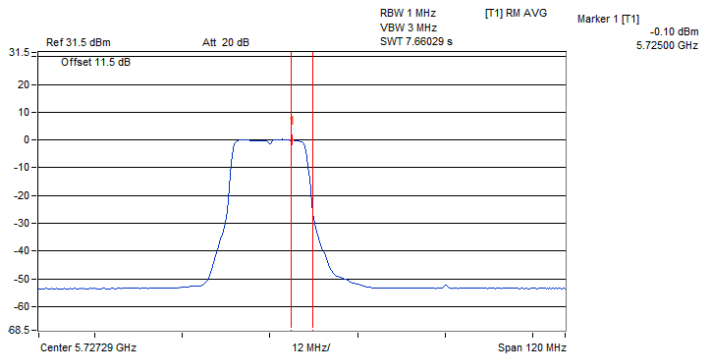
1. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
2. For U-NII-1, the directional gain is 11.99 dBi > 6 dBi, so the output power limit shall be reduced to 30-(11.99-6) = 24.01 dBm.
3. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.83-6)].
4. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(12.34-6)].

Spectrum Plot for channel straddling



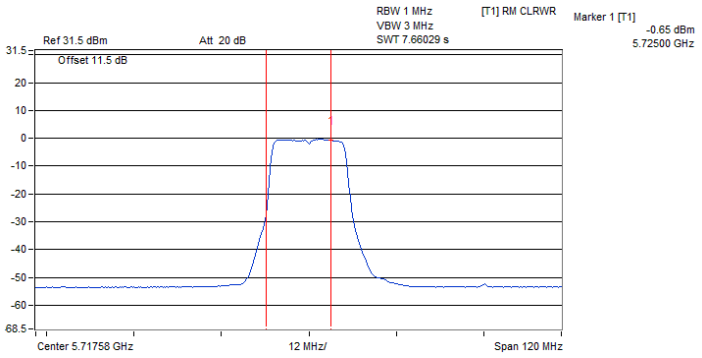
TX Channel Bandwidth 14.88 MHz Power 10.78 dBm

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



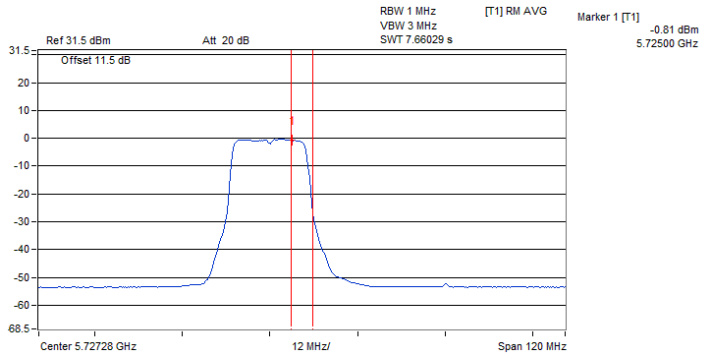
TX Channel Bandwidth 4.57 MHz Power 4.34 dBm

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



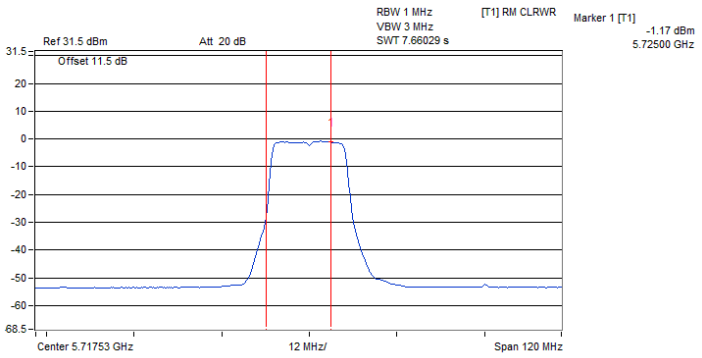
TX Channel Bandwidth 14.84 MHz Power 10.18 dBm

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



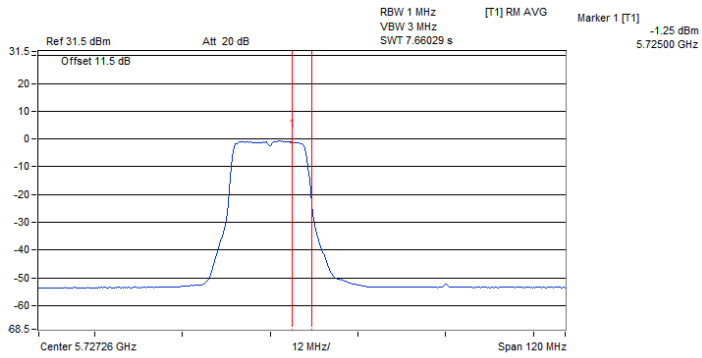
TX Channel Bandwidth 4.56 MHz Power 3.73 dBm

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



TX Channel Bandwidth 14.93 MHz Power 9.74 dBm

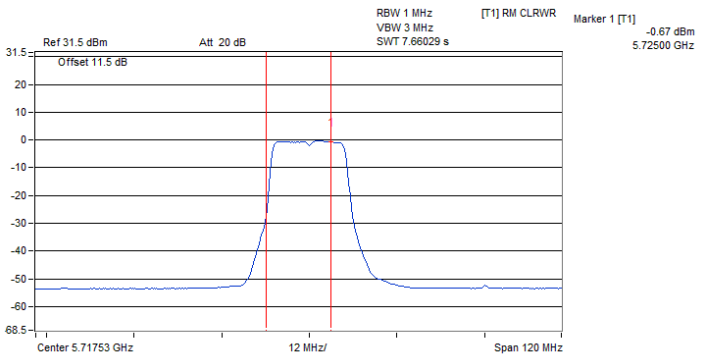
802.11a / Chain 2 : CH 144 (U-NII-2C)



TX Channel Bandwidth 4.53 MHz Power 3.29 dBm

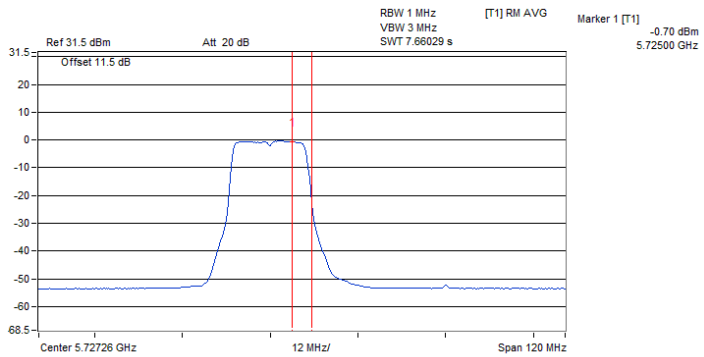
802.11a / Chain 2 : CH 144 (U-NII-3)

Spectrum Plot for channel straddling



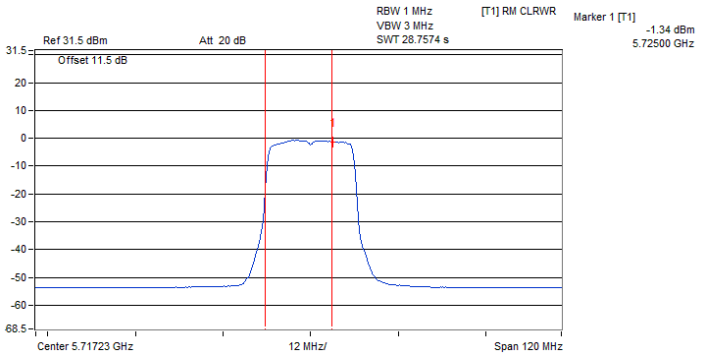
TX Channel Bandwidth 14.93 MHz Power 10.24 dBm

802.11a / Chain 3 : CH 144 (U-NII-2C)



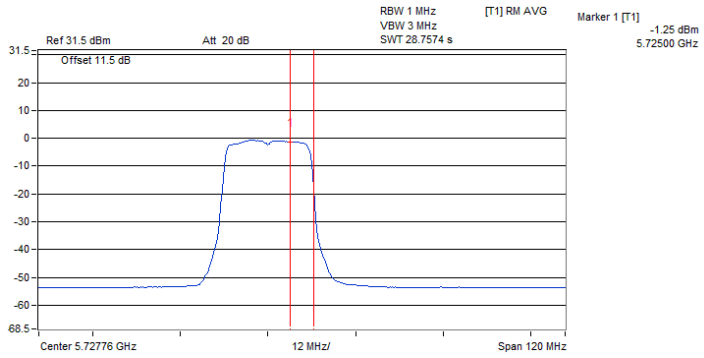
TX Channel Bandwidth 4.51 MHz Power 3.8 dBm

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



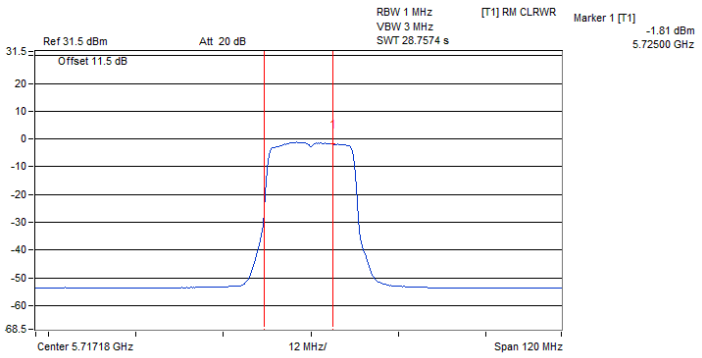
TX Channel Bandwidth 15.55 MHz Power 9.99 dBm

802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)



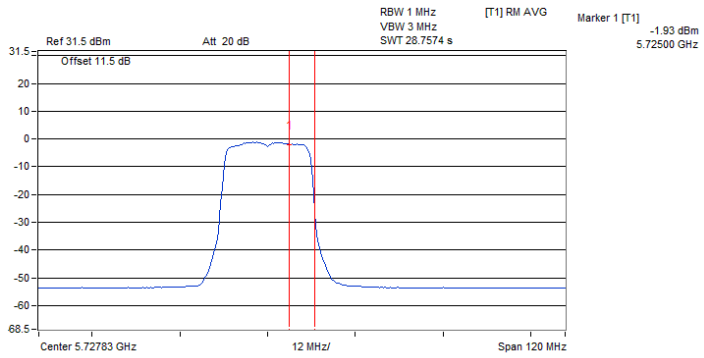
TX Channel Bandwidth 5.51 MHz Power 4.69 dBm

802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)



TX Channel Bandwidth 15.65 MHz Power 9.49 dBm

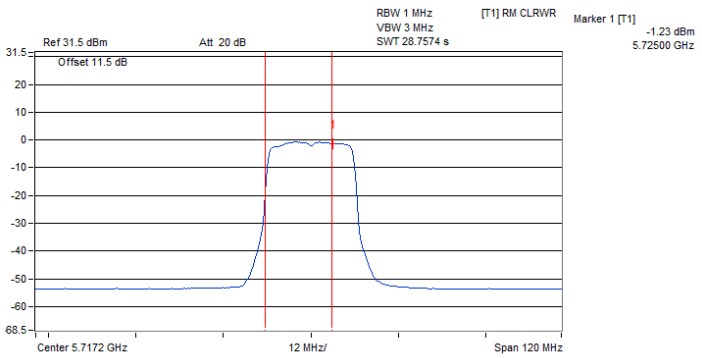
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)



TX Channel Bandwidth 5.67 MHz Power 4.19 dBm

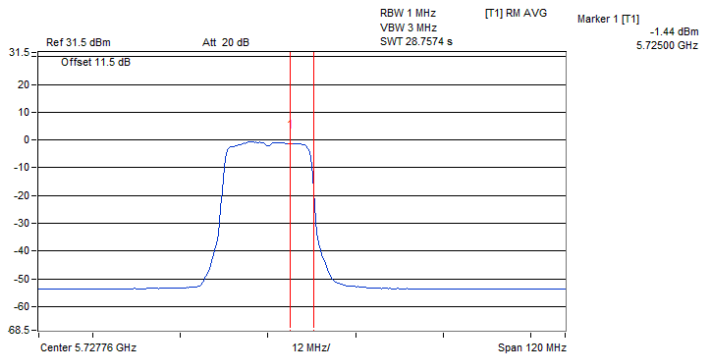
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)

Spectrum Plot for channel straddling



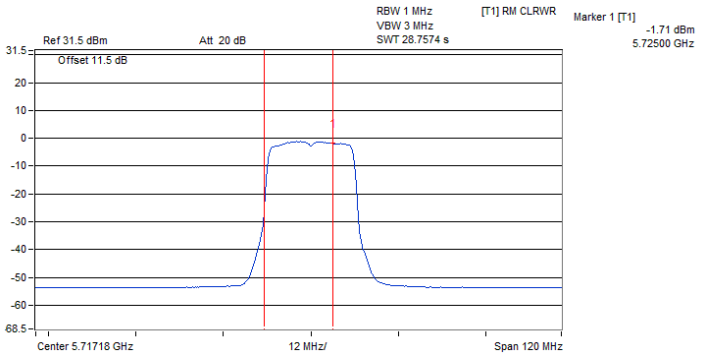
TX Channel Bandwidth 15.6 MHz Power 9.99 dBm

802.11ax (HE20) / Chain 2 : CH 144 (U-NII-2C)



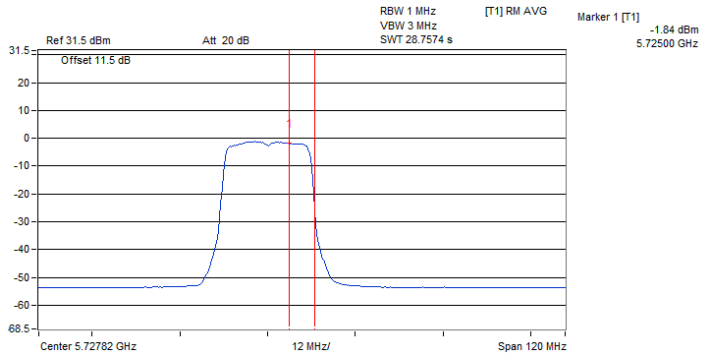
TX Channel Bandwidth 5.51 MHz Power 4.68 dBm

802.11ax (HE20) / Chain 2 : CH 144 (U-NII-3)



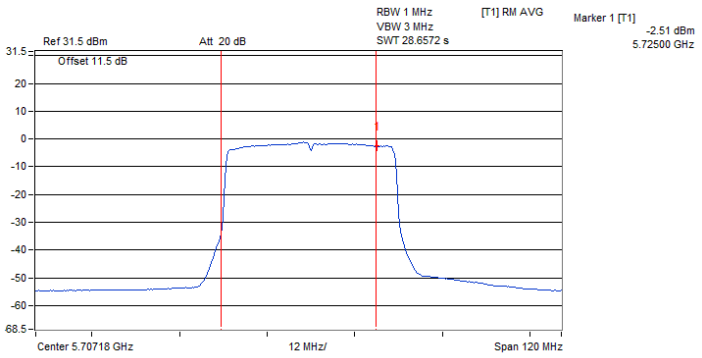
TX Channel Bandwidth 15.65 MHz Power 9.52 dBm

802.11ax (HE20) / Chain 3 : CH 144 (U-NII-2C)



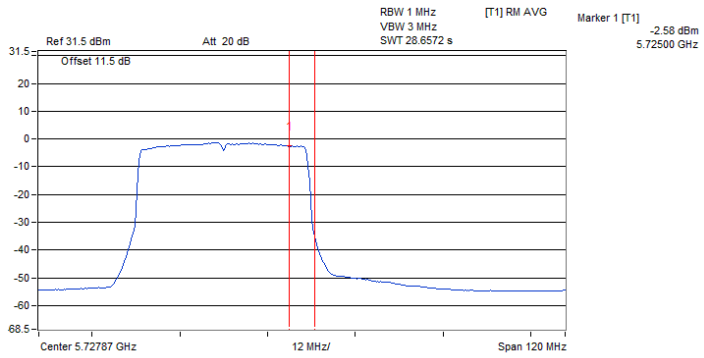
TX Channel Bandwidth 5.64 MHz Power 4.18 dBm

802.11ax (HE20) / Chain 3 : CH 144 (U-NII-3)



TX Channel Bandwidth 35.63 MHz Power 14.36 dBm

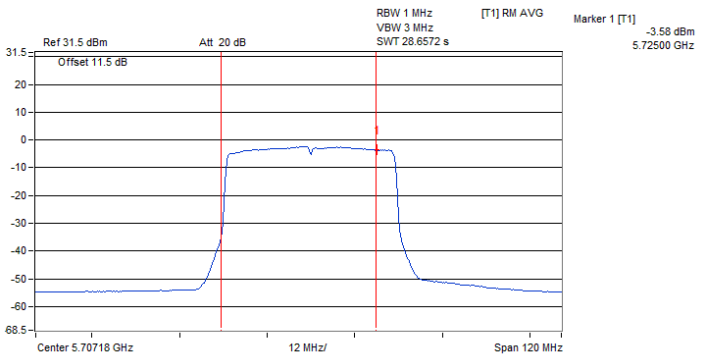
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)



TX Channel Bandwidth 5.74 MHz Power 4.65 dBm

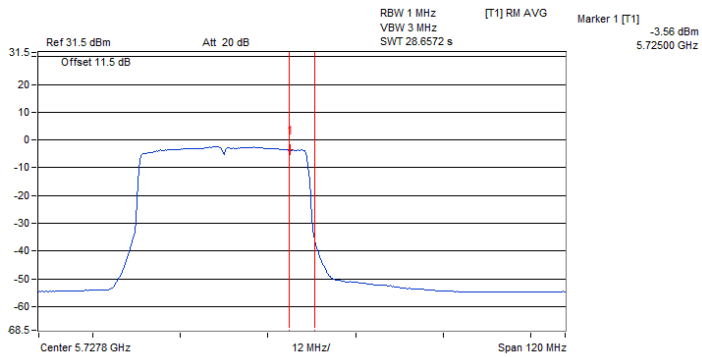
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)

Spectrum Plot for channel straddling



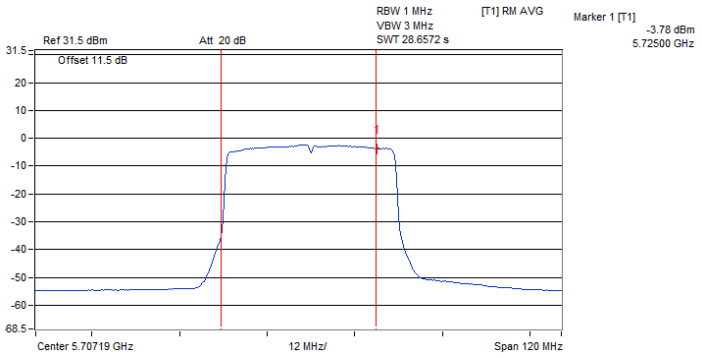
TX Channel Bandwidth 35.64 MHz Power 13.3 dBm

802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)



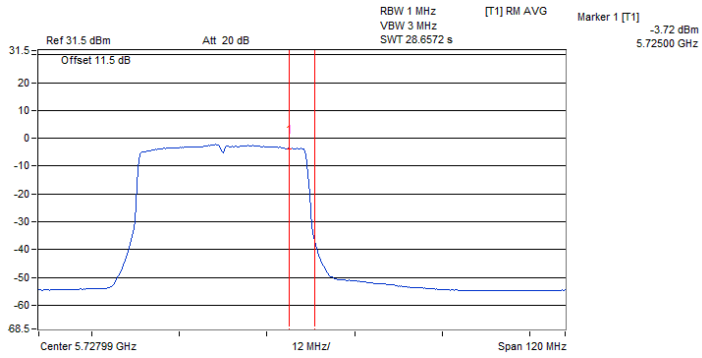
TX Channel Bandwidth 5.59 MHz Power 3.59 dBm

802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)



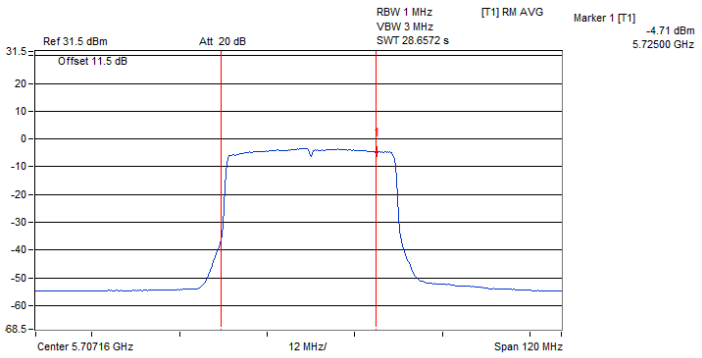
TX Channel Bandwidth 35.62 MHz Power 13.29 dBm

802.11ax (HE40) / Chain 2 : CH 142 (U-NII-2C)



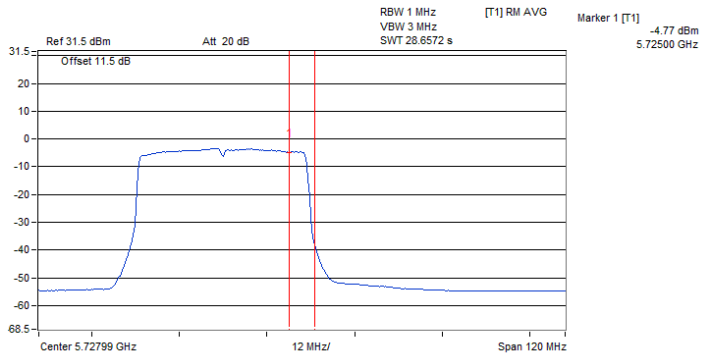
TX Channel Bandwidth 5.97 MHz Power 3.58 dBm

802.11ax (HE40) / Chain 2 : CH 142 (U-NII-3)



TX Channel Bandwidth 35.69 MHz Power 12.26 dBm

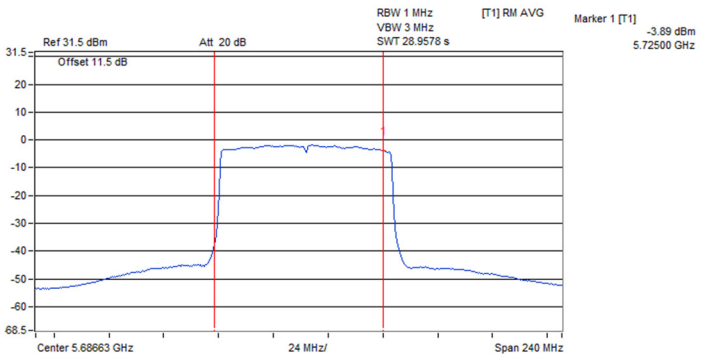
802.11ax (HE40) / Chain 3 : CH 142 (U-NII-2C)



TX Channel Bandwidth 5.98 MHz Power 2.56 dBm

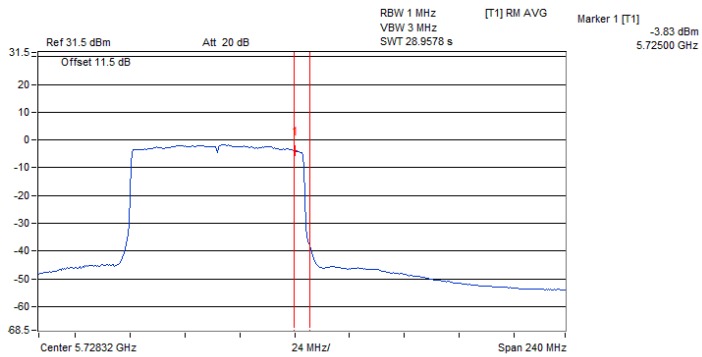
802.11ax (HE40) / Chain 3 : CH 142 (U-NII-3)

Spectrum Plot for channel straddling



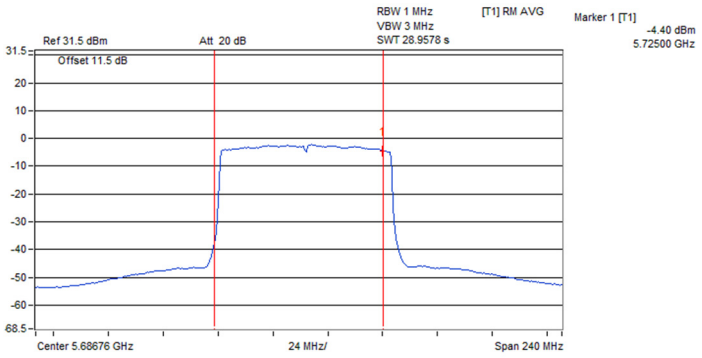
TX Channel Bandwidth 76.74 MHz Power 17.20 dBm

802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



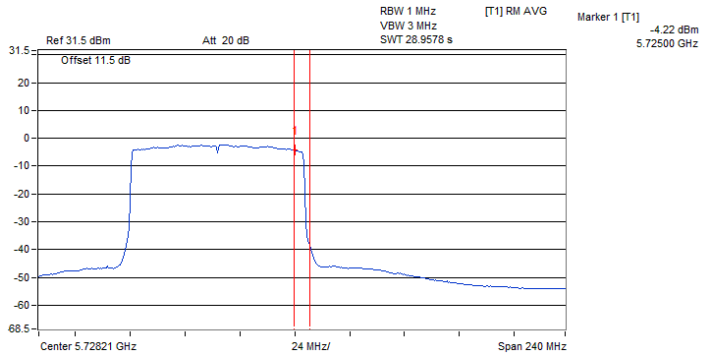
TX Channel Bandwidth 6.63 MHz Power 3.04 dBm

802.11ax (HE80) / Chain 0 : CH 138 (U-NII-3)



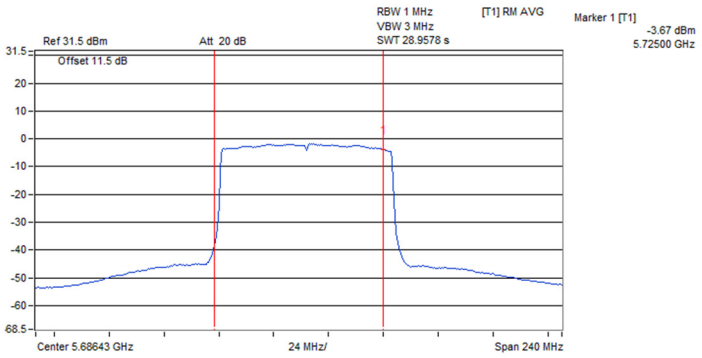
TX Channel Bandwidth 76.47 MHz Power 16.55 dBm

802.11ax (HE80) / Chain 1 : CH 138 (U-NII-2C)



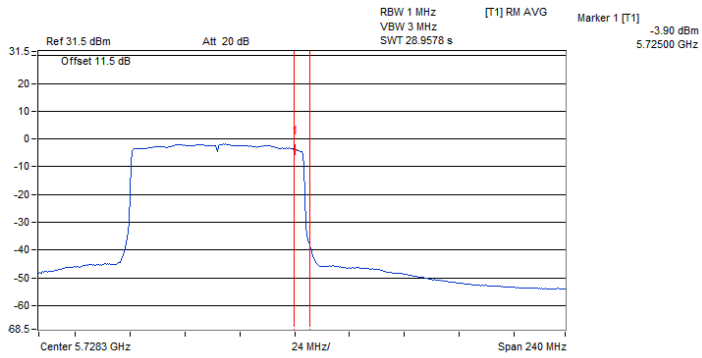
TX Channel Bandwidth 6.43 MHz Power 2.58 dBm

802.11ax (HE80) / Chain 1 : CH 138 (U-NII-3)



TX Channel Bandwidth 77.13 MHz Power 17.13 dBm

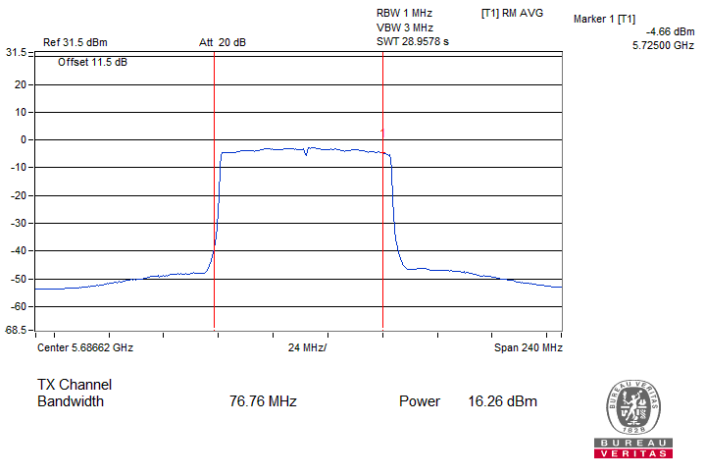
802.11ax (HE80) / Chain 2 : CH 138 (U-NII-2C)



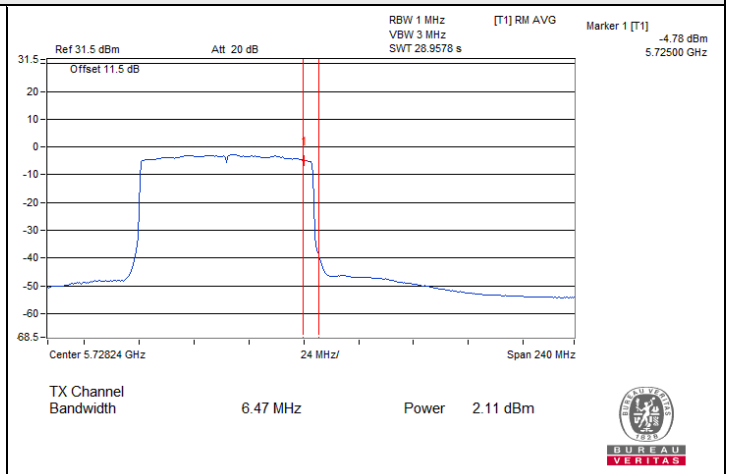
TX Channel Bandwidth 6.61 MHz Power 3.05 dBm

802.11ax (HE80) / Chain 2 : CH 138 (U-NII-3)

Spectrum Plot for channel straddling



802.11ax (HE80) / Chain 3 : CH 138 (U-NII-2C)



802.11ax (HE80) / Chain 3 : CH 138 (U-NII-3)

7.2 Power Spectral Density

Input Power:	55 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang

Mode A

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	4.21	3.38	4.05	3.94	0.46	10.39	10.46	Pass
40	5200	4.00	3.39	4.05	3.55	0.46	10.24	10.46	Pass
48	5240	4.15	3.81	4.33	3.53	0.46	10.45	10.46	Pass
52	5260	-1.80	-2.48	-2.25	-2.85	0.46	4.15	4.41	Pass
60	5300	-1.90	-1.95	-2.20	-2.72	0.46	4.30	4.41	Pass
64	5320	-1.66	-2.14	-2.09	-2.60	0.46	4.37	4.41	Pass
100	5500	-1.71	-2.32	-1.80	-1.92	0.46	4.55	4.65	Pass
116	5580	-1.45	-1.57	-2.02	-2.49	0.46	4.62	4.65	Pass
140	5700	-1.48	-1.89	-1.89	-2.38	0.46	4.58	4.65	Pass
144 (U-NII-2C)	5720	-1.53	-1.66	-2.40	-1.89	0.46	4.62	4.65	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (4 of TX antenna elements)
3. For U-NII-1, the directional gain is 12.54 dBi > 6dBi, so the power density limit shall be reduced to 17-(12.54-6) = 10.46 dBm/MHz.
4. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.59-6) = 4.41 dBm/MHz.
5. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.35-6) = 4.65 dBm/MHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	3.73	3.50	4.37	4.07	0.20	10.15	10.46	Pass
40	5200	3.32	3.15	4.16	4.68	0.20	10.09	10.46	Pass
48	5240	3.73	3.84	4.70	3.23	0.20	10.13	10.46	Pass
52	5260	-2.31	-2.45	-1.69	-2.88	0.20	3.91	4.41	Pass
60	5300	-2.18	-2.50	-1.84	-2.98	0.20	3.87	4.41	Pass
64	5320	-2.66	-3.81	-1.85	-1.50	0.20	3.85	4.41	Pass
100	5500	-2.05	-2.27	-1.84	-2.09	0.20	4.16	4.65	Pass
116	5580	-1.77	-2.75	-1.77	-2.12	0.20	4.14	4.65	Pass
140	5700	-1.78	-3.09	-1.87	-2.23	0.20	4.01	4.65	Pass
144 (U-NII-2C)	5720	-1.23	-2.38	-1.83	-2.07	0.20	4.36	4.65	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 12.54 dBi > 6dBi, so the power density limit shall be reduced to 17-(12.54-6) = 10.46 dBm/MHz.
4. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.59-6) = 4.41 dBm/MHz.
5. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.35-6) = 4.65 dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	0.02	1.85	0.07	1.54	0.20	7.17	10.46	Pass
46	5230	3.69	4.27	2.72	3.99	0.20	9.93	10.46	Pass
54	5270	-3.21	-2.32	-2.89	-1.97	0.20	3.65	4.41	Pass
62	5310	-4.27	-4.33	-4.74	-3.83	0.20	1.94	4.41	Pass
102	5510	-2.66	-1.51	-2.40	-2.50	0.20	3.98	4.65	Pass
110	5550	-2.21	-2.23	-2.31	-2.61	0.20	3.88	4.65	Pass
134	5670	-2.50	-2.19	-2.82	-1.72	0.20	3.93	4.65	Pass
142 (U-NII-2C)	5710	-3.88	-1.27	-1.97	-2.22	0.20	3.99	4.65	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 12.54 dBi > 6dBi, so the power density limit shall be reduced to 17-(12.54-6) = 10.46 dBm/MHz.
4. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.59-6) = 4.41 dBm/MHz.
5. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.35-6) = 4.65 dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	-2.84	-3.21	-3.50	-3.47	0.23	3.00	10.46	Pass
58	5290	-6.92	-8.36	-7.27	-8.76	0.23	-1.51	4.41	Pass
106	5530	-3.33	-4.18	-3.57	-4.78	0.23	2.32	4.65	Pass
122	5610	-1.81	-2.68	-1.56	-3.82	0.23	3.87	4.65	Pass
138 (U-NII-2C)	5690	-2.35	-2.38	-2.61	-3.49	0.23	3.57	4.65	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 12.54 dBi > 6dBi, so the power density limit shall be reduced to 17-(12.54-6) = 10.46 dBm/MHz.
4. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.59-6) = 4.41 dBm/MHz.
5. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.35-6) = 4.65 dBm/MHz.

802.11ax (HE80+HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42+58(L)	5210	-5.70	-5.99	-	-	0.23	-2.60	13.97	Pass
42+58(H)	5290	-	-	-5.47	-6.46	0.23	-2.70	6.92	Pass
106+122(L)	5530	-3.30	-5.20	-	-	0.23	-0.91	4.65	Pass
106+122(H)	5610	-	-	-4.16	-4.84	0.23	-1.25	4.65	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 12.54 dBi > 6dBi, so the power density limit shall be reduced to 17-(12.54-6) = 10.46 dBm/MHz.
4. For U-NII-2A, the directional gain is 12.59 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.59-6) = 4.41 dBm/MHz.
5. For U-NII-2C, the directional gain is 12.35 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.35-6) = 4.65 dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
144 (U-NII-3)	5720	-9.97	-10.66	-11.23	-10.53	-4.55	0.46	-1.87	24.35	Pass
149	5745	2.84	2.08	1.46	1.97	8.14	0.46	10.82	24.35	Pass
157	5785	2.47	2.18	1.51	0.95	7.84	0.46	10.52	24.35	Pass
165	5825	2.03	1.96	0.99	1.14	7.58	0.46	10.26	24.35	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (4 of TX antenna elements)
3. For U-NII-3, the directional gain is 11.65 dBi > 6 dBi, so the power density limit shall be reduced to 30-(11.65-6) = 24.35 dBm/500kHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
144 (U-NII-3)	5720	-11.40	-12.06	-11.63	-11.88	-5.71	0.2	-3.29	24.35	Pass
149	5745	0.20	0.52	0.34	0.06	6.3	0.2	8.72	24.35	Pass
157	5785	0.73	1.34	0.20	-0.47	6.52	0.2	8.94	24.35	Pass
165	5825	0.39	0.81	0.10	-0.18	6.32	0.2	8.74	24.35	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-3, the directional gain is 11.65 dBi > 6 dBi, so the power density limit shall be reduced to 30-(11.65-6) = 24.35 dBm/500kHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
142 (U-NII-3)	5710	-11.93	-12.79	-12.97	-13.89	-6.82	0.2	-4.40	24.35	Pass
151	5755	-1.88	-1.12	-2.08	-3.41	3.97	0.2	6.39	24.35	Pass
159	5795	-1.69	-1.72	-2.60	-4.03	3.61	0.2	6.03	24.35	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-3, the directional gain is 11.65 dBi > 6 dBi, so the power density limit shall be reduced to 30-(11.65-6) = 24.35 dBm/500kHz.

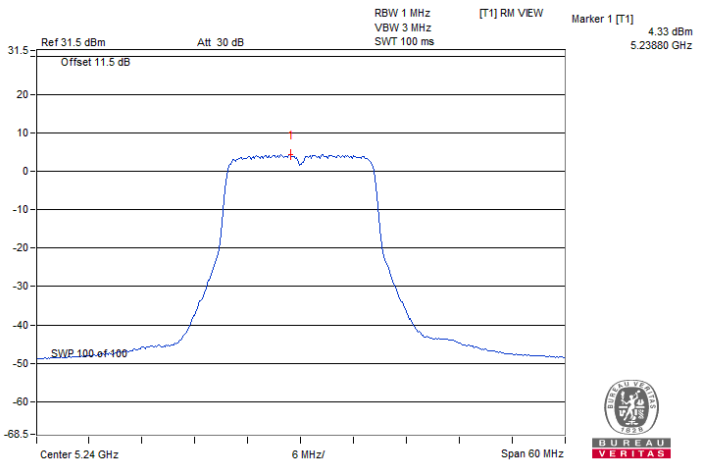
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
138 (U-NII-3)	5690	-12.96	-12.91	-12.70	-12.70	-6.8	0.23	-4.35	24.35	Pass
155	5775	-8.94	-8.80	-9.88	-9.66	-3.28	0.23	-0.83	24.35	Pass

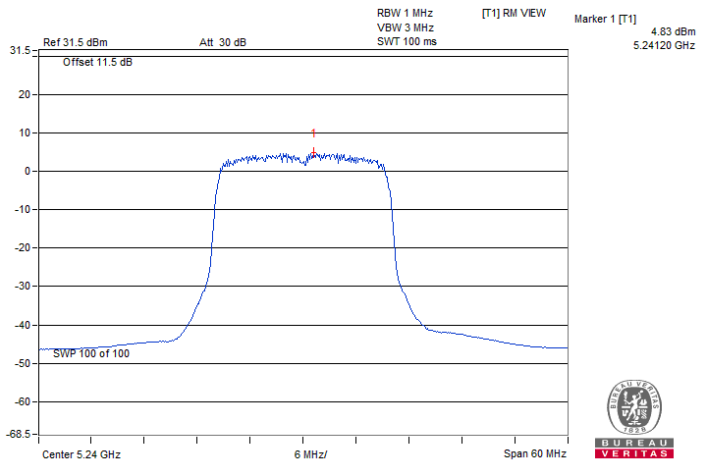
Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-3, the directional gain is 11.65 dBi > 6 dBi, so the power density limit shall be reduced to 30-(11.65-6) = 24.35 dBm/500kHz.

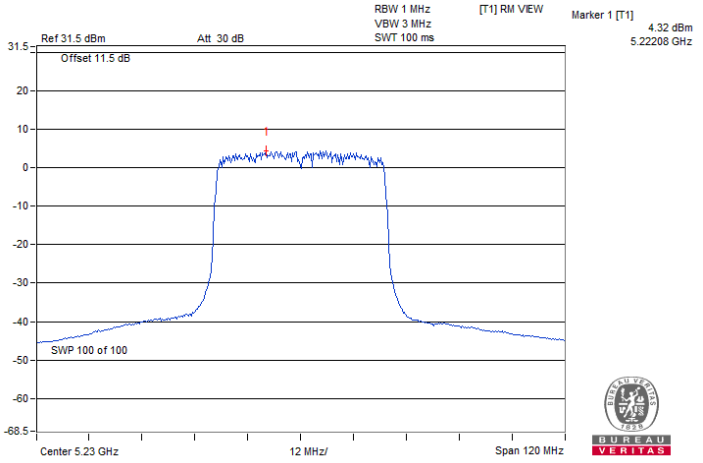
Spectrum Plot of Maximum Value



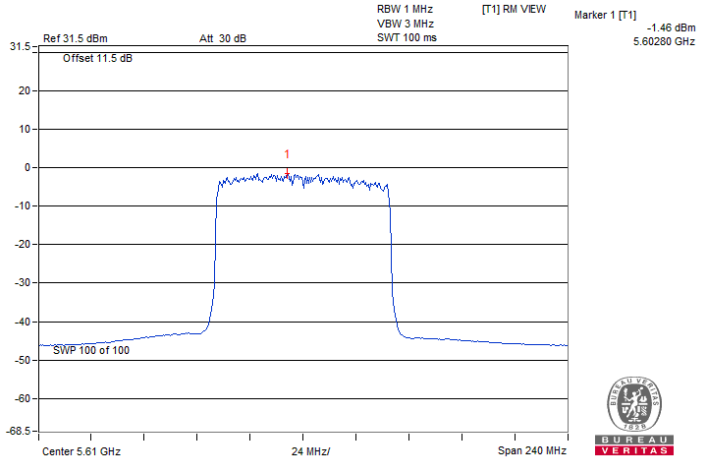
802.11a / Chain 2 : CH 48



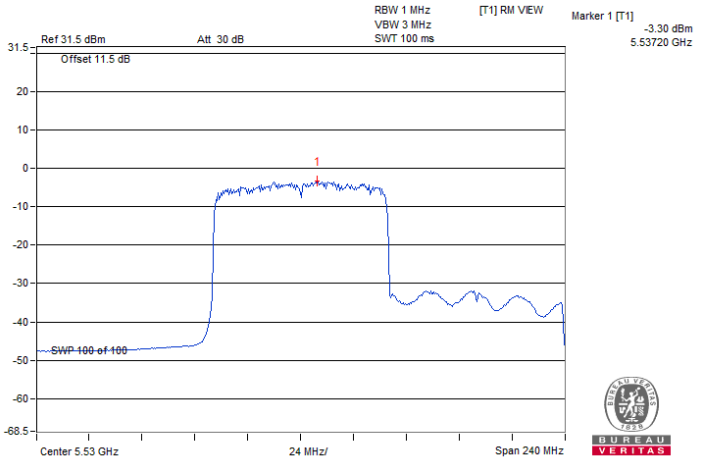
802.11ax (HE20) / Chain 2 : CH 48



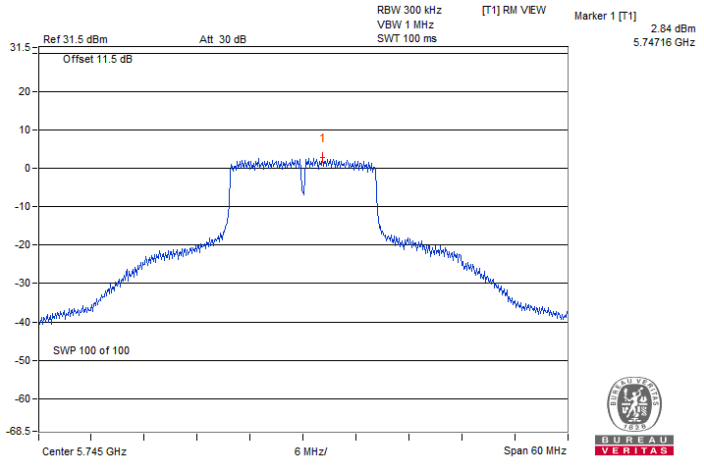
802.11ax (HE40) / Chain 1 : CH 46



802.11ax (HE80) / Chain 2 : CH 122

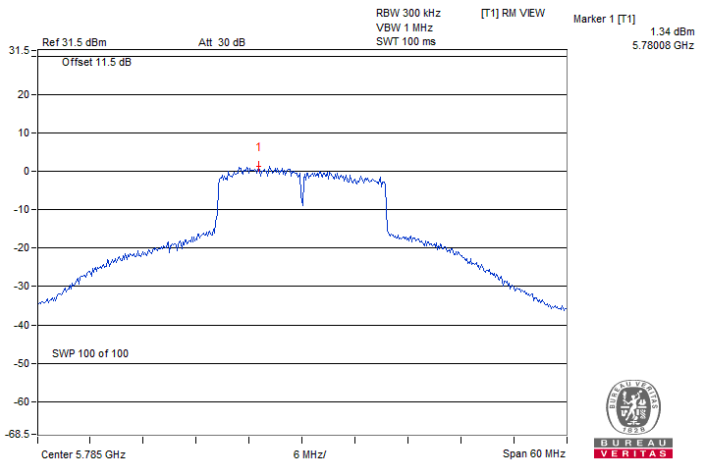


802.11ax (HE80+HE80) / Chain 0 : CH 106+122(L)

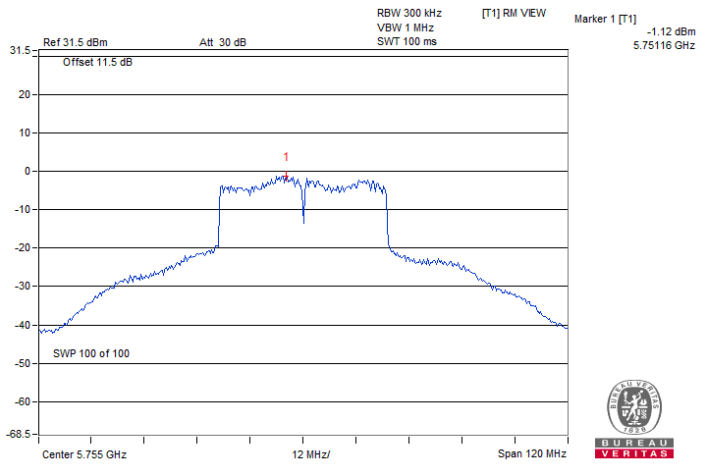


802.11a / Chain 0 : CH 149

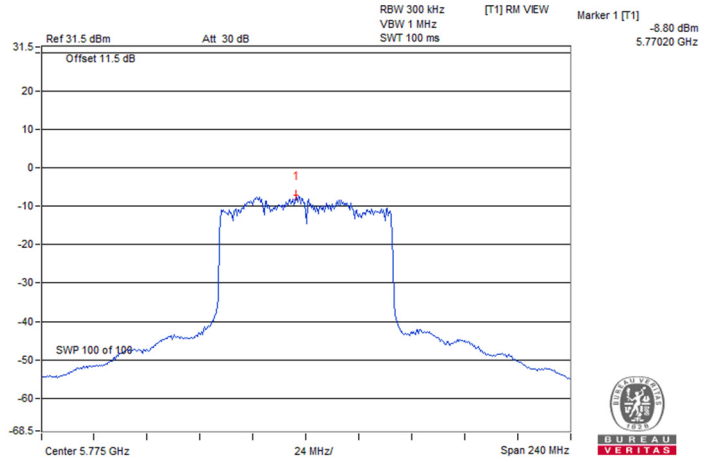
Spectrum Plot of Maximum Value



802.11ax (HE20) / Chain 1 : CH 157



802.11ax (HE40) / Chain 1 : CH 151



802.11ax (HE80) / Chain 1 : CH 155

Input Power:	55 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang

Mode B

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	5.05	4.02	4.41	4.32	0.46	10.95	11.01	Pass
40	5200	4.29	3.95	4.82	4.30	0.46	10.83	11.01	Pass
48	5240	4.87	4.20	4.63	4.34	0.46	11.00	11.01	Pass
52	5260	-0.76	-1.37	-1.80	-1.85	0.46	5.06	5.17	Pass
60	5300	-1.06	-1.06	-1.94	-2.03	0.46	4.98	5.17	Pass
64	5320	-1.02	-1.31	-1.45	-1.70	0.46	5.12	5.17	Pass
100	5500	-1.71	-2.32	-1.80	-1.92	0.46	4.55	4.66	Pass
116	5580	-1.45	-1.57	-2.02	-2.49	0.46	4.62	4.66	Pass
140	5700	-1.48	-1.89	-1.89	-2.38	0.46	4.58	4.66	Pass
144 (U-NII-2C)	5720	-1.53	-1.66	-2.40	-1.89	0.46	4.62	4.66	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (4 of TX antenna elements)
3. For U-NII-1, the directional gain is 11.99 dBi > 6dBi, so the power density limit shall be reduced to 17-(11.99-6) = 11.01 dBm/MHz.
4. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the power density limit shall be reduced to 11-(11.83-6) = 5.17 dBm/MHz.
5. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.34-6) = 4.66 dBm/MHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	3.73	3.50	4.37	4.07	0.20	10.15	11.01	Pass
40	5200	3.56	3.76	4.97	4.20	0.20	10.38	11.01	Pass
48	5240	4.25	3.46	4.78	3.80	0.20	10.32	11.01	Pass
52	5260	-2.18	-1.80	-1.02	-2.60	0.20	4.36	5.17	Pass
60	5300	-1.64	-1.80	-1.26	-1.84	0.20	4.59	5.17	Pass
64	5320	-0.99	-1.93	-1.26	-1.47	0.20	4.82	5.17	Pass
100	5500	-2.05	-2.27	-1.84	-2.09	0.20	4.16	4.66	Pass
116	5580	-1.77	-2.75	-1.77	-2.12	0.20	4.14	4.66	Pass
140	5700	-1.78	-3.09	-1.87	-2.23	0.20	4.01	4.66	Pass
144 (U-NII-2C)	5720	-2.24	-2.26	-1.96	-2.76	0.20	3.93	4.66	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 11.99 dBi > 6dBi, so the power density limit shall be reduced to 17-(11.99-6) = 11.01 dBm/MHz.
4. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the power density limit shall be reduced to 11-(11.83-6) = 5.17 dBm/MHz.
5. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.34-6) = 4.66 dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	1.34	1.25	1.16	-0.36	0.20	7.12	11.01	Pass
46	5230	3.69	4.27	2.72	3.99	0.20	9.93	11.01	Pass
54	5270	-0.76	-2.63	-1.13	-2.60	0.20	4.52	5.17	Pass
62	5310	-2.50	-2.84	-3.03	-3.01	0.20	3.38	5.17	Pass
102	5510	-2.66	-1.51	-2.40	-2.50	0.20	3.98	4.66	Pass
110	5550	-2.21	-2.23	-2.31	-2.61	0.20	3.88	4.66	Pass
134	5670	-1.23	-2.72	-1.26	-3.48	0.20	4.15	4.66	Pass
142 (U-NII-2C)	5710	-3.88	-1.27	-1.97	-2.22	0.20	3.99	4.66	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 11.99 dBi > 6dBi, so the power density limit shall be reduced to 17-(11.99-6) = 11.01 dBm/MHz.
4. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the power density limit shall be reduced to 11-(11.83-6) = 5.17 dBm/MHz.
5. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.34-6) = 4.66 dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	-3.49	-3.51	-3.07	-3.54	0.23	2.85	11.01	Pass
58	5290	-6.92	-8.36	-7.27	-8.76	0.23	-1.51	5.17	Pass
106	5530	-2.45	-3.68	-3.25	-2.51	0.23	3.31	4.66	Pass
122	5610	-1.81	-2.68	-1.56	-3.82	0.23	3.87	4.66	Pass
138 (U-NII-2C)	5690	-2.35	-2.38	-2.61	-3.49	0.23	3.57	4.66	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 11.99 dBi > 6dBi, so the power density limit shall be reduced to 17-(11.99-6) = 11.01 dBm/MHz.
4. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the power density limit shall be reduced to 11-(11.83-6) = 5.17 dBm/MHz.
5. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.34-6) = 4.66 dBm/MHz.

802.11ax (HE80+HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42+58(L)	5210	-5.70	-5.99	-	-	0.23	-2.60	14.23	Pass
42+58(H)	5290	-	-	-5.47	-6.46	0.23	-2.70	8.1	Pass
106+122(L)	5530	-3.30	-5.20	-	-	0.23	-0.91	4.66	Pass
106+122(H)	5610	-	-	-4.16	-4.84	0.23	-1.25	4.66	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-1, the directional gain is 11.99 dBi > 6dBi, so the power density limit shall be reduced to 17-(11.99-6) = 11.01 dBm/MHz.
4. For U-NII-2A, the directional gain is 11.83 dBi > 6 dBi, so the power density limit shall be reduced to 11-(11.83-6) = 5.17 dBm/MHz.
5. For U-NII-2C, the directional gain is 12.34 dBi > 6 dBi, so the power density limit shall be reduced to 11-(12.34-6) = 4.66 dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
144 (U-NII-3)	5720	-9.97	-10.66	-11.23	-10.53	-4.55	0.46	-1.87	23.27	Pass
149	5745	2.70	2.56	2.50	1.66	8.39	0.46	11.07	23.27	Pass
157	5785	2.36	2.05	1.57	1.95	8.01	0.46	10.69	23.27	Pass
165	5825	1.80	2.13	2.00	1.15	7.81	0.46	10.49	23.27	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (4 of TX antenna elements)
3. For U-NII-3, the directional gain is 12.73 dBi > 6 dBi, so the power density limit shall be reduced to 30-(12.73-6) = 23.27 dBm/500kHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
144 (U-NII-3)	5720	-12.08	-12.49	-12.16	-12.84	-6.36	0.2	-3.94	23.27	Pass
149	5745	0.06	0.08	0.03	-1.06	5.82	0.2	8.24	23.27	Pass
157	5785	0.58	0.03	0.04	-1.16	5.94	0.2	8.36	23.27	Pass
165	5825	0.33	0.03	0.01	-0.85	5.92	0.2	8.34	23.27	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-3, the directional gain is 12.73 dBi > 6 dBi, so the power density limit shall be reduced to 30-(12.73-6) = 23.27 dBm/500kHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
142 (U-NII-3)	5710	-11.93	-12.79	-12.97	-13.89	-6.82	0.2	-4.40	23.27	Pass
151	5755	-2.44	-2.19	-2.74	-4.25	3.18	0.2	5.60	23.27	Pass
159	5795	-2.92	-2.66	-2.92	-4.17	2.89	0.2	5.31	23.27	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-3, the directional gain is 12.73 dBi > 6 dBi, so the power density limit shall be reduced to 30-(12.73-6) = 23.27 dBm/500kHz.

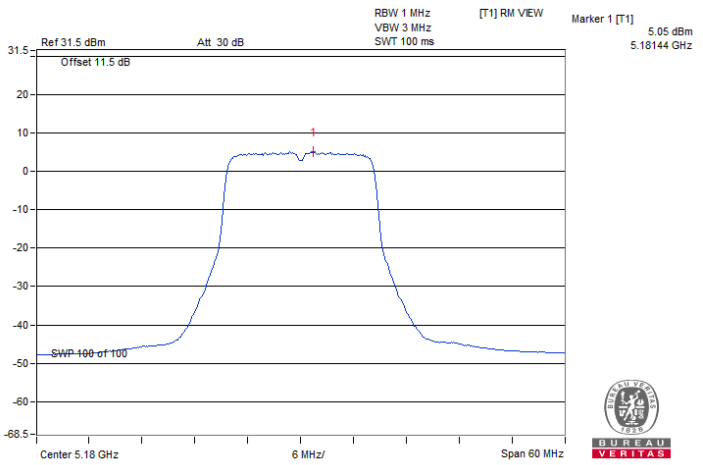
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
138 (U-NII-3)	5690	-12.96	-12.91	-12.70	-12.70	-6.8	0.23	-4.35	23.27	Pass
155	5775	-9.81	-9.94	-9.86	-10.44	-3.98	0.23	-1.53	23.27	Pass

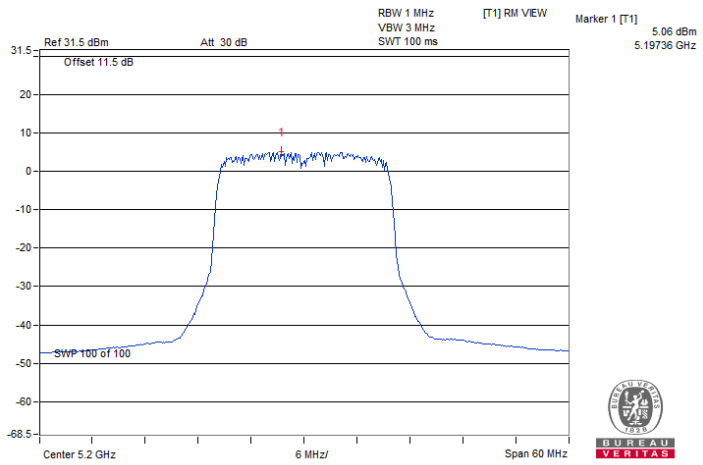
Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20} + 10^{Chain2/20} + 10^{Chain3/20})^2$ / 4]
3. For U-NII-3, the directional gain is 12.73 dBi > 6 dBi, so the power density limit shall be reduced to 30-(12.73-6) = 23.27 dBm/500kHz.

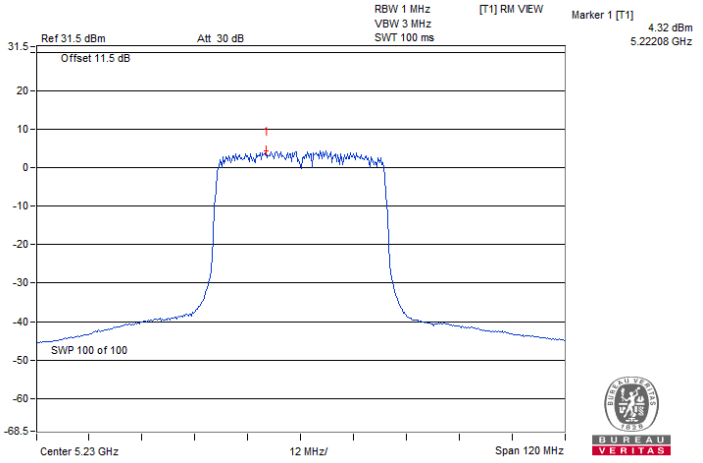
Spectrum Plot of Maximum Value



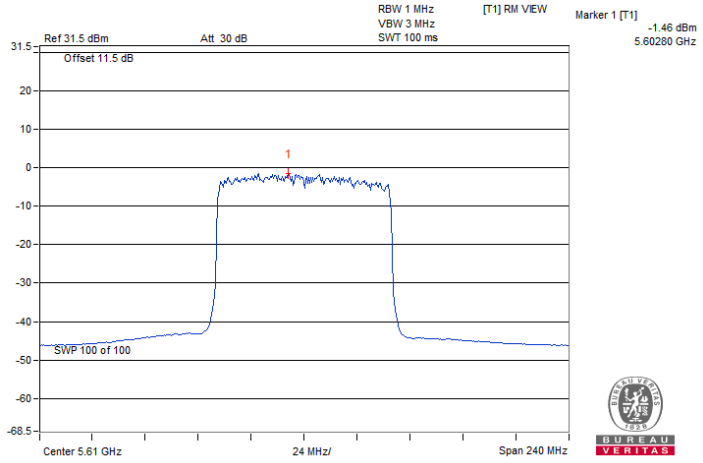
802.11a / Chain 0 : CH 36



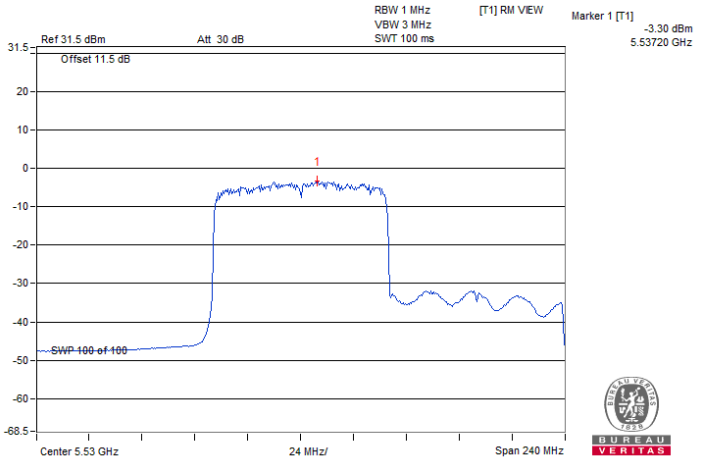
802.11ax (HE20) / Chain 2 : CH 40



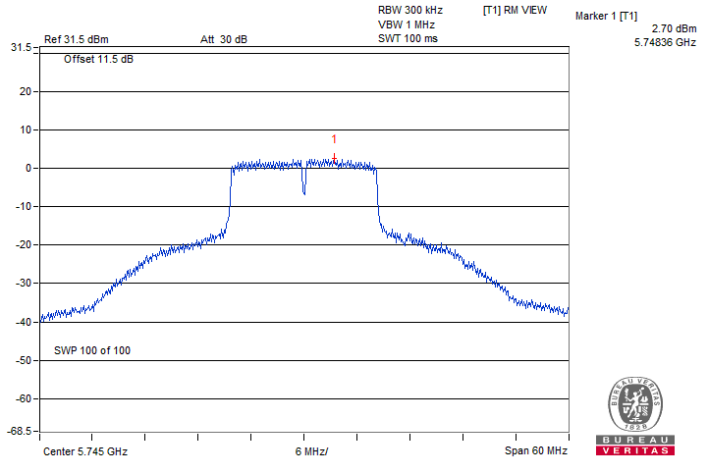
802.11ax (HE40) / Chain 1 : CH 46



802.11ax (HE80) / Chain 2 : CH 122

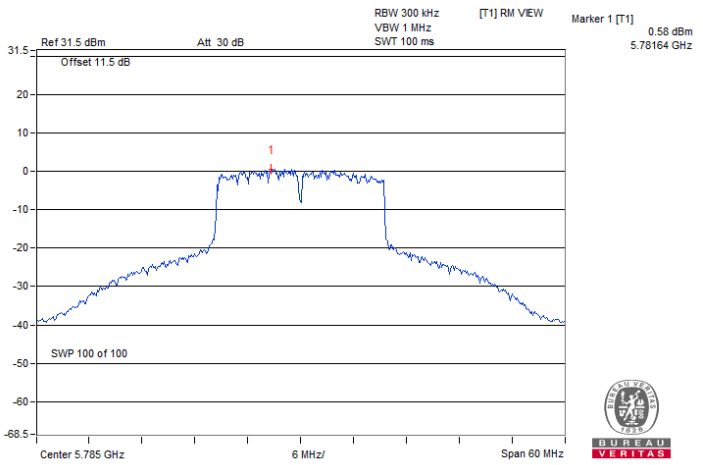


802.11ax (HE80+HE80) / Chain 0 : CH 106+122(L)

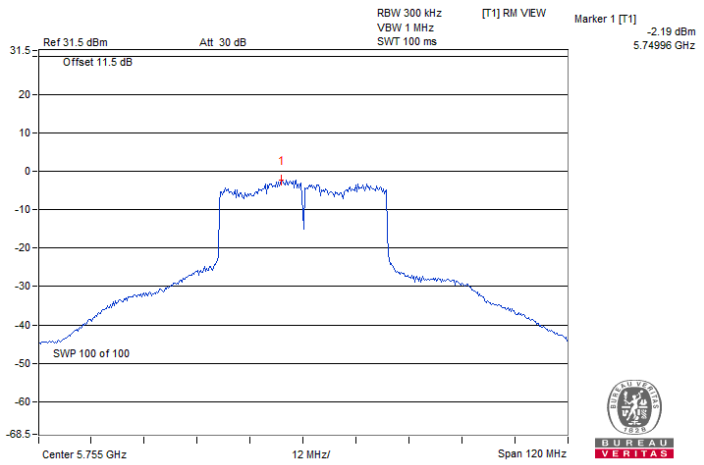


802.11a / Chain 0 : CH 149

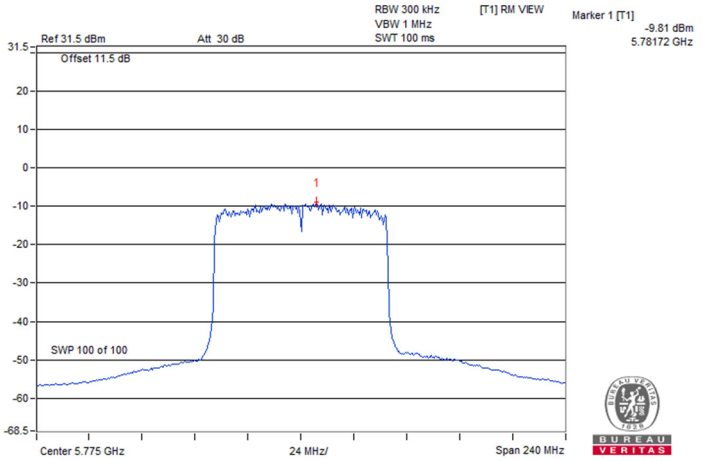
Spectrum Plot of Maximum Value



802.11ax (HE20) / Chain 0 : CH 157



802.11ax (HE40) / Chain 1 : CH 151



802.11ax (HE80) / Chain 0 : CH 155

7.3 AC Power Conducted Emissions

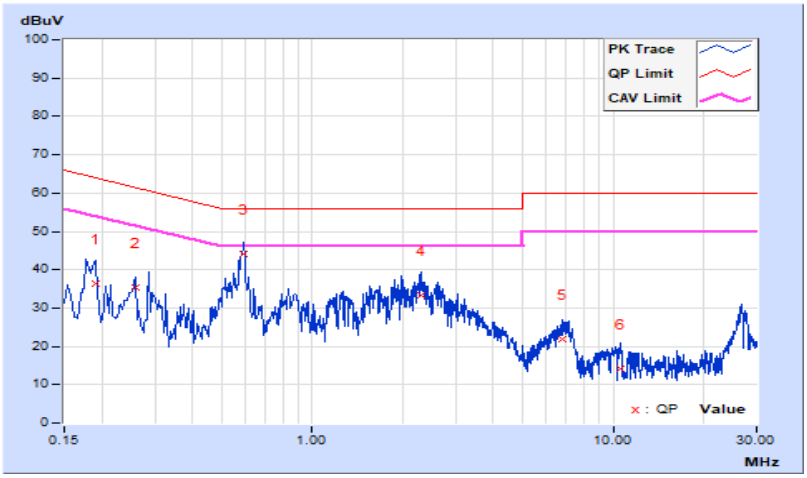
Mode A

RF Mode	802.11a	Channel	CH 149：5745 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Karl Li		

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	0.19000	9.66	26.79	16.95	36.45	26.61	64.04	54.04	-27.59	-27.43
2	0.25800	9.67	25.75	13.00	35.42	22.67	61.50	51.50	-26.08	-28.83
3	0.59000	9.70	34.46	16.33	44.16	26.03	56.00	46.00	-11.84	-19.97
4	2.31800	9.77	23.56	5.82	33.33	15.59	56.00	46.00	-22.67	-30.41
5	6.76200	9.82	12.17	-0.79	21.99	9.03	60.00	50.00	-38.01	-40.97
6	10.58600	9.88	4.18	-3.99	14.06	5.89	60.00	50.00	-45.94	-44.11

Remarks:

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

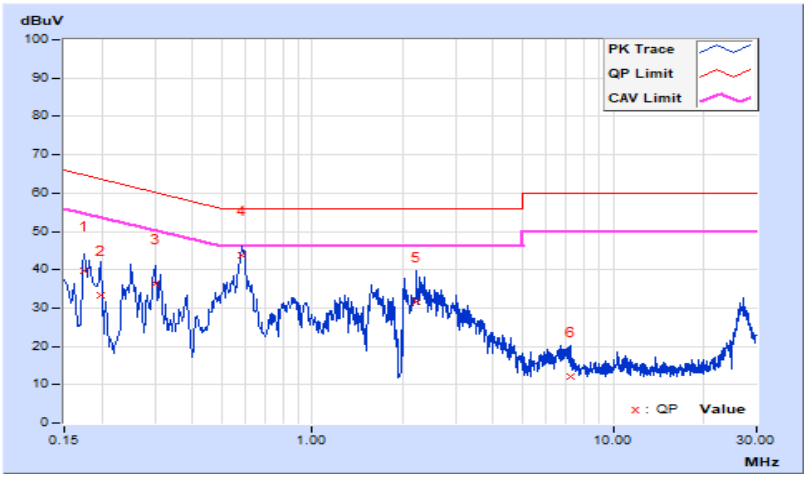


RF Mode	802.11a	Channel	CH 149：5745 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Karl Li		

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	0.17400	9.64	30.24	19.48	39.88	29.12	64.77	54.77	-24.89	-25.65
2	0.19800	9.65	23.82	8.07	33.47	17.72	63.69	53.69	-30.22	-35.97
3	0.30200	9.68	26.53	14.07	36.21	23.75	60.19	50.19	-23.98	-26.44
4	0.58565	9.72	34.14	16.01	43.86	25.73	56.00	46.00	-12.14	-20.27
5	2.22600	9.76	21.79	4.15	31.55	13.91	56.00	46.00	-24.45	-32.09
6	7.21800	9.87	2.34	-4.00	12.21	5.87	60.00	50.00	-47.79	-44.13

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



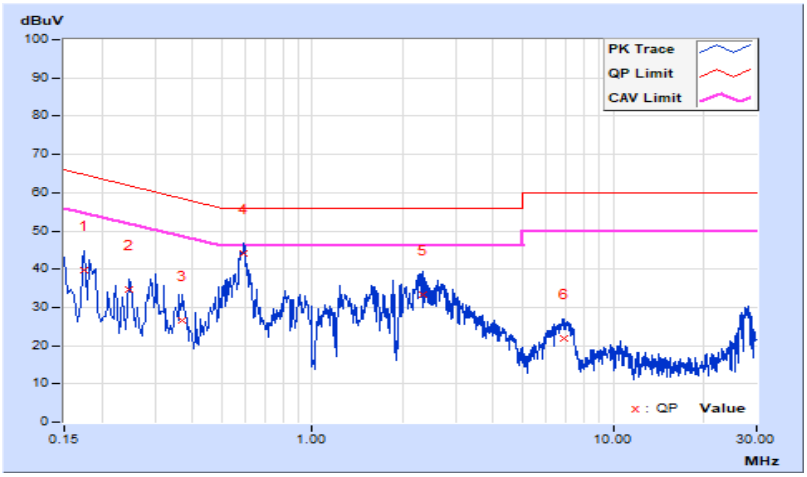
Mode B

RF Mode	802.11ax (HE40)	Channel	CH 151：5755 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Karl Li		

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	0.17384	9.67	30.11	19.28	39.78	28.95	64.77	54.77	-24.99	-25.82
2	0.24600	9.67	24.92	15.27	34.59	24.94	61.89	51.89	-27.30	-26.95
3	0.37000	9.69	17.06	6.41	26.75	16.10	58.50	48.50	-31.75	-32.40
4	**0.59000**	**9.70**	**34.47**	**16.30**	**44.17**	**26.00**	**56.00**	**46.00**	**-11.83**	**-20.00**
5	2.33400	9.77	23.58	5.73	33.35	15.50	56.00	46.00	-22.65	-30.50
6	6.89000	9.82	12.00	-0.87	21.82	8.95	60.00	50.00	-38.18	-41.05

Remarks:

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

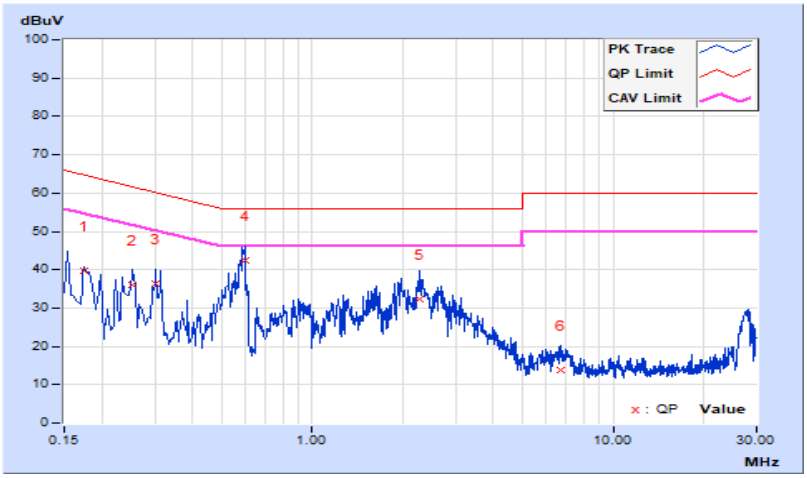


RF Mode	802.11ax (HE40)	Channel	CH 151：5755 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Karl Li		

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	0.17400	9.64	30.24	19.41	39.88	29.05	64.77	54.77	-24.89	-25.72
2	0.25400	9.67	26.21	14.60	35.88	24.27	61.63	51.63	-25.75	-27.36
3	0.30200	9.68	26.66	14.04	36.34	23.72	60.19	50.19	-23.85	-26.47
4	0.59800	9.72	32.68	13.78	42.40	23.50	56.00	46.00	-13.60	-22.50
5	2.26600	9.76	22.63	4.81	32.39	14.57	56.00	46.00	-23.61	-31.43
6	6.72600	9.85	4.00	-3.37	13.85	6.48	60.00	50.00	-46.15	-43.52

Remarks:

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



7.4 Unwanted Emissions below 1 GHz

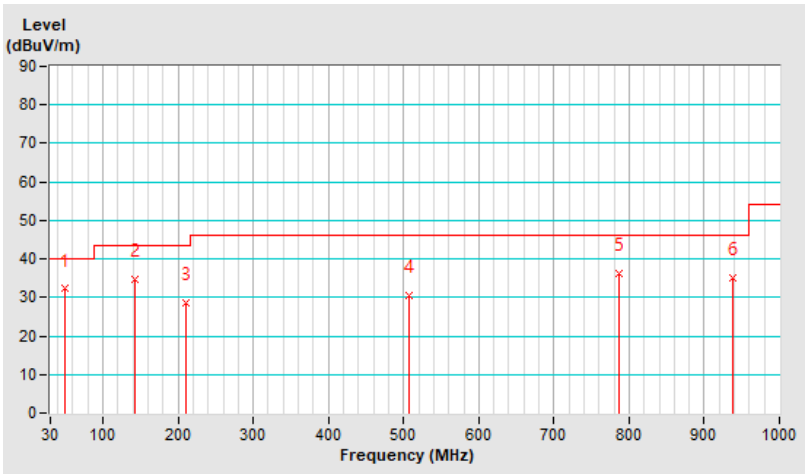
Mode A

RF Mode	802.11a	**Channel**	CH 149：5745 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 67% RH
Tested By	Karl Lee		

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	50.26	32.2 QP	40.0	-7.8	1.49 H	253	45.3	-13.1
2	142.25	34.7 QP	43.5	-8.8	1.66 H	174	48.0	-13.3
3	209.63	28.7 QP	43.5	-14.8	2.89 H	122	45.5	-16.8
4	506.38	30.6 QP	46.0	-15.4	1.57 H	225	38.1	-7.5
5	786.09	36.3 QP	46.0	-9.7	2.33 H	192	38.6	-2.3
6	938.14	35.2 QP	46.0	-10.8	1.12 H	43	35.5	-0.3

Remarks:

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

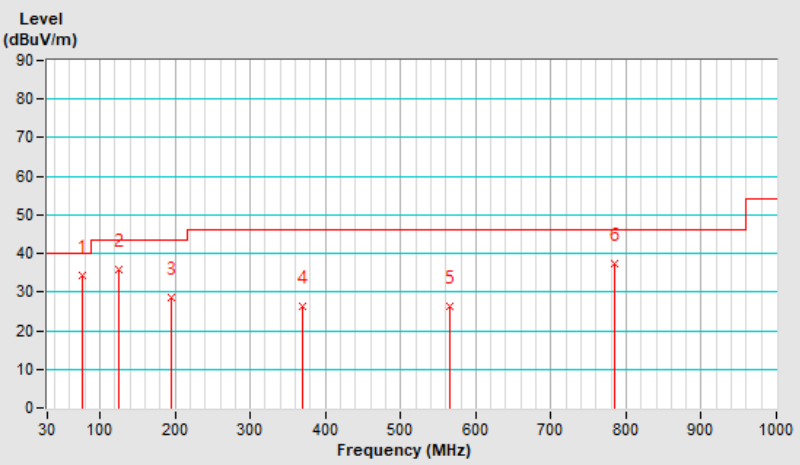


RF Mode	802.11a	Channel	CH 149：5745 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	75.82	34.3 QP	40.0	-5.7	1.92 V	224	51.3	-17.0
2	124.26	35.8 QP	43.5	-7.7	1.27 V	250	50.8	-15.0
3	194.86	28.7 QP	43.5	-14.8	1.55 V	342	45.1	-16.4
4	368.61	26.5 QP	46.0	-19.5	2.74 V	122	37.4	-10.9
5	565.29	26.3 QP	46.0	-19.7	1.91 V	58	32.8	-6.5
6	785.02	37.5 QP	46.0	-8.5	1.66 V	149	39.8	-2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit 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.



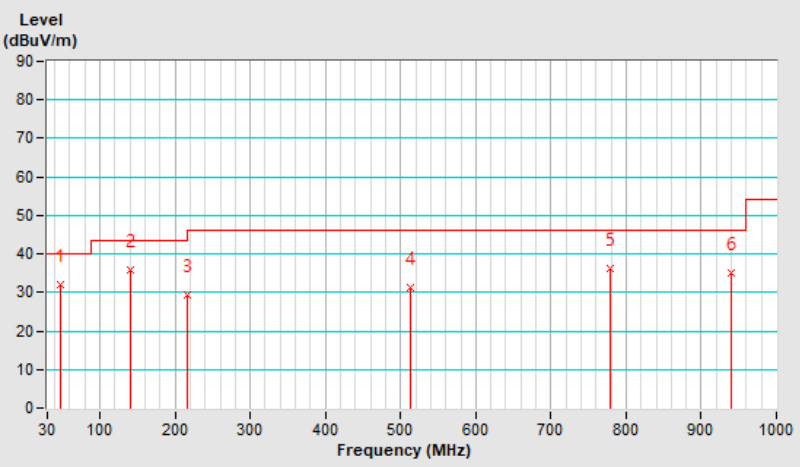
Mode B

RF Mode	802.11ax (HE40)	Channel	CH 151：5755 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	46.62	32.2 QP	40.0	-7.8	1.09 H	312	45.3	-13.1
2	141.16	35.8 QP	43.5	-7.7	1.47 H	132	49.2	-13.4
3	215.62	29.4 QP	43.5	-14.1	1.77 H	351	46.0	-16.6
4	512.69	31.1 QP	46.0	-14.9	1.17 H	239	38.6	-7.5
5	779.26	36.2 QP	46.0	-9.8	1.62 H	302	38.7	-2.5
6	939.23	35.1 QP	46.0	-10.9	2.23 H	72	35.5	-0.4

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 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.

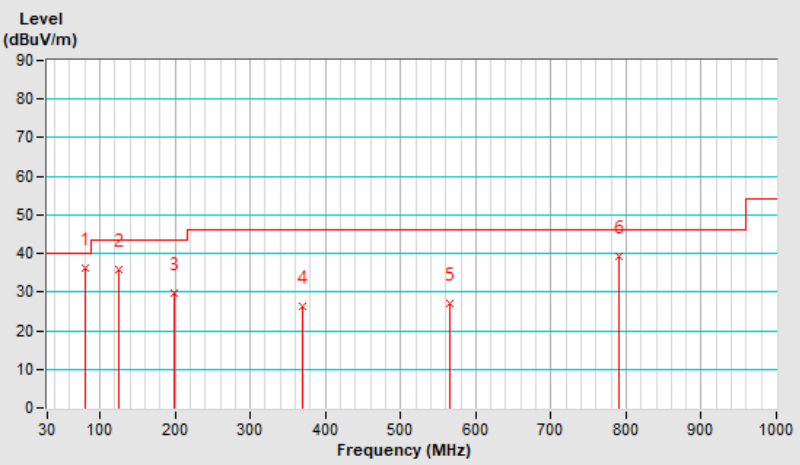


RF Mode	802.11ax (HE40)	Channel	CH 151：5755 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	**80.44**	**36.3 QP**	**40.0**	**-3.7**	**1.49 V**	**21**	**54.4**	**-18.1**
2	124.59	35.8 QP	43.5	-7.7	2.25 V	226	50.8	-15.0
3	198.53	29.6 QP	43.5	-13.9	1.19 V	147	46.3	-16.7
4	368.69	26.3 QP	46.0	-19.7	2.25 V	187	37.2	-10.9
5	566.15	27.1 QP	46.0	-18.9	1.35 V	352	33.6	-6.5
6	790.42	39.2 QP	46.0	-6.8	1.96 V	321	41.6	-2.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit 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.



7.5 Unwanted Emissions above 1 GHz

Mode A

RF Mode	802.11a	Channel	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.9 PK	74.0	-14.1	1.36 H	159	57.1	2.8
2	5150.00	47.1 AV	54.0	-6.9	1.36 H	159	44.3	2.8
3	*5180.00	112.2 PK			1.27 H	186	71.8	40.4
4	*5180.00	102.8 AV			1.27 H	186	62.4	40.4
5	#10360.00	58.9 PK	68.2	-9.3	2.63 H	155	49.6	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.5 PK	74.0	-9.5	1.56 V	311	61.7	2.8
2	5150.00	53.5 AV	54.0	-0.5	1.56 V	311	50.7	2.8
3	*5180.00	123.5 PK			1.40 V	323	83.1	40.4
4	*5180.00	114.2 AV			1.40 V	323	73.8	40.4
5	#10360.00	59.4 PK	68.2	-8.8	2.53 V	196	50.1	9.3

Remarks:

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

RF Mode	802.11a	Channel	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.6 PK	74.0	-14.4	1.35 H	124	56.8	2.8
2	5150.00	47.0 AV	54.0	-7.0	1.35 H	124	44.2	2.8
3	*5200.00	114.5 PK			1.27 H	184	74.2	40.3
4	*5200.00	104.9 AV			1.27 H	184	64.6	40.3
5	5350.00	59.1 PK	74.0	-14.9	1.27 H	184	56.5	2.6
6	5350.00	46.6 AV	54.0	-7.4	1.27 H	184	44.0	2.6
7	#10400.00	59.7 PK	68.2	-8.5	1.42 H	182	50.4	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.7 PK	74.0	-10.3	1.79 V	251	60.9	2.8
2	5150.00	51.0 AV	54.0	-3.0	1.79 V	251	48.2	2.8
3	*5200.00	124.9 PK			1.79 V	317	84.6	40.3
4	*5200.00	115.7 AV			1.79 V	317	75.4	40.3
5	5350.00	60.7 PK	74.0	-13.3	1.79 V	251	58.1	2.6
6	5350.00	49.0 AV	54.0	-5.0	1.79 V	251	46.4	2.6
7	#10400.00	58.8 PK	68.2	-9.4	1.53 V	229	49.5	9.3

Remarks:

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

RF Mode	802.11a	Channel	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	115.6 PK			1.20 H	187	75.2	40.4
2	*5240.00	105.8 AV			1.20 H	187	65.4	40.4
3	5350.00	58.9 PK	74.0	-15.1	1.16 H	169	56.3	2.6
4	5350.00	46.4 AV	54.0	-7.6	1.16 H	169	43.8	2.6
5	#10480.00	58.6 PK	68.2	-9.6	1.53 H	204	49.3	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	125.8 PK			1.69 V	344	85.4	40.4
2	*5240.00	116.4 AV			1.69 V	344	76.0	40.4
3	5350.00	61.1 PK	74.0	-12.9	1.59 V	322	58.5	2.6
4	5350.00	48.3 AV	54.0	-5.7	1.59 V	322	45.7	2.6
5	#10480.00	59.0 PK	68.2	-9.2	1.31 V	281	49.7	9.3

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	59.2 PK	74.0	-14.8	1.18 H	210	56.4	2.8
2	5150.00	48.5 AV	54.0	-5.5	1.18 H	210	45.7	2.8
3	*5180.00	113.3 PK			1.27 H	199	72.9	40.4
4	*5180.00	100.8 AV			1.27 H	199	60.4	40.4
5	#10360.00	59.6 PK	68.2	-8.6	1.93 H	61	50.3	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	68.3 PK	74.0	-5.7	1.61 V	319	65.5	2.8
2	5150.00	53.8 AV	54.0	-0.2	1.61 V	319	51.0	2.8
3	*5180.00	123.7 PK			1.61 V	320	83.3	40.4
4	*5180.00	110.7 AV			1.61 V	320	70.3	40.4
5	#10360.00	59.1 PK	68.2	-9.1	2.28 V	51	49.8	9.3

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.2 PK	74.0	-14.8	1.27 H	165	56.4	2.8
2	5150.00	47.2 AV	54.0	-6.8	1.27 H	165	44.4	2.8
3	*5200.00	116.5 PK			1.27 H	184	76.2	40.3
4	*5200.00	104.2 AV			1.27 H	184	63.9	40.3
5	5350.00	59.1 PK	74.0	-14.9	1.35 H	189	56.5	2.6
6	5350.00	46.9 AV	54.0	-7.1	1.35 H	189	44.3	2.6
7	#10400.00	58.9 PK	68.2	-9.3	2.14 H	38	49.6	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.8 PK	74.0	-8.2	1.84 V	252	63.0	2.8
2	5150.00	52.6 AV	54.0	-1.4	1.84 V	252	49.8	2.8
3	*5200.00	126.4 PK			1.80 V	250	86.1	40.3
4	*5200.00	113.8 AV			1.80 V	250	73.5	40.3
5	5350.00	60.4 PK	74.0	-13.6	1.84 V	252	57.8	2.6
6	5350.00	48.7 AV	54.0	-5.3	1.84 V	252	46.1	2.6
7	#10400.00	58.8 PK	68.2	-9.4	1.31 V	249	49.5	9.3

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	116.1 PK			1.19 H	187	75.7	40.4
2	*5240.00	103.5 AV			1.19 H	187	63.1	40.4
3	5350.00	59.7 PK	74.0	-14.3	1.16 H	201	57.1	2.6
4	5350.00	46.4 AV	54.0	-7.6	1.16 H	201	43.8	2.6
5	#10480.00	58.9 PK	68.2	-9.3	2.53 H	124	49.6	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	126.9 PK			1.66 V	324	86.5	40.4
2	*5240.00	114.1 AV			1.66 V	324	73.7	40.4
3	5350.00	60.9 PK	74.0	-13.1	1.66 V	309	58.3	2.6
4	5350.00	48.1 AV	54.0	-5.9	1.66 V	309	45.5	2.6
5	#10480.00	58.4 PK	68.2	-9.8	1.64 V	250	49.1	9.3

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 38：5190 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.7 PK	74.0	-14.3	1.54 H	184	56.9	2.8
2	5150.00	47.9 AV	54.0	-6.1	1.54 H	184	45.1	2.8
3	*5190.00	111.4 PK			1.27 H	199	71.0	40.4
4	*5190.00	97.8 AV			1.27 H	199	57.4	40.4
5	5350.00	59.0 PK	74.0	-15.0	1.27 H	199	56.4	2.6
6	5350.00	46.5 AV	54.0	-7.5	1.27 H	199	43.9	2.6
7	#10380.00	59.0 PK	68.2	-9.2	2.67 H	185	49.6	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.4 PK	74.0	-6.6	2.06 V	315	64.6	2.8
2	5150.00	53.8 AV	54.0	-0.2	2.06 V	315	51.0	2.8
3	*5190.00	120.3 PK			1.99 V	314	79.9	40.4
4	*5190.00	107.4 AV			1.99 V	314	67.0	40.4
5	5350.00	59.4 PK	74.0	-14.6	1.99 V	314	56.8	2.6
6	5350.00	47.3 AV	54.0	-6.7	1.99 V	314	44.7	2.6
7	#10380.00	59.6 PK	68.2	-8.6	2.45 V	127	50.2	9.4

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 46：5230 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.2 PK	74.0	-14.8	1.27 H	192	56.4	2.8
2	5150.00	47.6 AV	54.0	-6.4	1.27 H	192	44.8	2.8
3	*5230.00	113.6 PK			1.27 H	199	73.2	40.4
4	*5230.00	101.0 AV			1.27 H	199	60.6	40.4
5	5350.00	59.0 PK	74.0	-15.0	1.42 H	212	56.4	2.6
6	5350.00	46.5 AV	54.0	-7.5	1.42 H	212	43.9	2.6
7	#10460.00	59.4 PK	68.2	-8.8	2.36 H	157	50.1	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.6 PK	74.0	-8.4	1.85 V	248	62.8	2.8
2	5150.00	53.3 AV	54.0	-0.7	1.85 V	248	50.5	2.8
3	*5230.00	124.0 PK			1.85 V	252	83.6	40.4
4	*5230.00	111.6 AV			1.85 V	252	71.2	40.4
5	5350.00	65.1 PK	74.0	-8.9	1.85 V	248	62.5	2.6
6	5350.00	49.1 AV	54.0	-4.9	1.85 V	248	46.5	2.6
7	#10460.00	59.2 PK	68.2	-9.0	1.97 V	235	49.9	9.3

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 42：5210 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.4 PK	74.0	-14.6	1.30 H	200	56.6	2.8
2	5150.00	48.1 AV	54.0	-5.9	1.30 H	200	45.3	2.8
3	*5210.00	106.8 PK			1.27 H	200	66.5	40.3
4	*5210.00	94.4 AV			1.27 H	200	54.1	40.3
5	5350.00	58.8 PK	74.0	-15.2	1.33 H	206	56.2	2.6
6	5350.00	46.7 AV	54.0	-7.3	1.33 H	206	44.1	2.6
7	#10420.00	59.2 PK	68.2	-9.0	2.53 H	104	49.8	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	66.4 PK	74.0	-7.6	1.80 V	316	63.6	2.8
2	**5150.00**	**53.9 AV**	**54.0**	**-0.1**	**1.80 V**	**316**	**51.1**	**2.8**
3	*5210.00	116.8 PK			1.80 V	335	76.5	40.3
4	*5210.00	103.5 AV			1.80 V	335	63.2	40.3
5	5350.00	60.0 PK	74.0	-14.0	1.94 V	320	57.4	2.6
6	5350.00	47.7 AV	54.0	-6.3	1.94 V	320	45.1	2.6
7	#10420.00	58.8 PK	68.2	-9.4	2.13 V	311	49.4	9.4

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 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.2 PK	74.0	-13.8	1.12 H	198	56.5	3.7
2	5150.00	47.9 AV	54.0	-6.1	1.12 H	198	44.2	3.7
3	*5260.00	109.5 PK			1.08 H	198	68.3	41.2
4	*5260.00	99.7 AV			1.08 H	198	58.5	41.2
5	#10520.00	58.0 PK	68.2	-10.2	1.85 H	112	48.9	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.7 PK	74.0	-13.3	1.59 V	238	57.0	3.7
2	5150.00	48.7 AV	54.0	-5.3	1.59 V	238	45.0	3.7
3	*5260.00	120.9 PK			1.78 V	256	79.7	41.2
4	*5260.00	111.4 AV			1.78 V	256	70.2	41.2
5	#10520.00	58.5 PK	68.2	-9.7	1.69 V	222	49.4	9.1

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 60：5300 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5300.00	110.2 PK			1.17 H	206	68.9	41.3
2	*5300.00	100.3 AV			1.17 H	206	59.0	41.3
3	10600.00	58.1 PK	74.0	-15.9	1.26 H	213	48.9	9.2
4	10600.00	44.8 AV	54.0	-9.2	1.26 H	213	35.6	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	121.4 PK			1.94 V	247	80.1	41.3
2	*5300.00	111.9 AV			1.94 V	247	70.6	41.3
3	10600.00	59.5 PK	74.0	-14.5	1.88 V	324	50.3	9.2
4	10600.00	46.1 AV	54.0	-7.9	1.88 V	324	36.9	9.2

Remarks:

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

RF Mode	802.11a	Channel	CH 64：5320 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5320.00	109.8 PK			4.00 H	202	68.6	41.2
2	*5320.00	100.4 AV			4.00 H	202	59.2	41.2
3	5350.00	59.8 PK	74.0	-14.2	1.11 H	204	56.3	3.5
4	5350.00	47.4 AV	54.0	-6.6	1.11 H	204	43.9	3.5
5	10640.00	58.6 PK	74.0	-15.4	1.88 H	245	49.7	8.9
6	10640.00	45.3 AV	54.0	-8.7	1.88 H	245	36.4	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	120.9 PK			1.68 V	256	79.7	41.2
2	*5320.00	111.1 AV			1.68 V	256	69.9	41.2
3	5350.00	61.5 PK	74.0	-12.5	1.59 V	232	58.0	3.5
4	5350.00	49.6 AV	54.0	-4.4	1.59 V	232	46.1	3.5
5	10640.00	58.5 PK	74.0	-15.5	1.98 V	102	49.6	8.9
6	10640.00	42.1 AV	54.0	-11.9	1.98 V	102	33.2	8.9

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.6 PK	74.0	-13.4	1.25 H	194	56.9	3.7
2	5150.00	48.0 AV	54.0	-6.0	1.25 H	194	44.3	3.7
3	*5260.00	110.5 PK			1.08 H	214	69.3	41.2
4	*5260.00	99.5 AV			1.08 H	214	58.3	41.2
5	#10520.00	59.5 PK	68.2	-8.7	1.77 H	218	50.4	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.4 PK	74.0	-13.6	1.78 V	239	56.7	3.7
2	5150.00	48.5 AV	54.0	-5.5	1.78 V	239	44.8	3.7
3	*5260.00	122.5 PK			1.78 V	256	81.3	41.2
4	*5260.00	119.4 AV			1.78 V	256	78.2	41.2
5	#10520.00	58.5 PK	68.2	-9.7	1.72 V	264	49.4	9.1

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 60：5300 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5300.00	111.1 PK			1.17 H	206	69.8	41.3
2	*5300.00	100.0 AV			1.17 H	206	58.7	41.3
3	10600.00	58.7 PK	74.0	-15.3	2.55 H	81	49.5	9.2
4	10600.00	45.4 AV	54.0	-8.6	2.55 H	81	36.2	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	123.2 PK			1.94 V	247	81.9	41.3
2	*5300.00	120.0 AV			1.94 V	247	78.7	41.3
3	10600.00	58.4 PK	74.0	-15.6	1.78 V	211	49.2	9.2
4	10600.00	45.0 AV	54.0	-9.0	1.78 V	211	35.8	9.2

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 64：5320 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5320.00	110.9 PK			1.08 H	199	69.7	41.2
2	*5320.00	98.4 AV			1.08 H	199	57.2	41.2
3	5350.00	60.6 PK	74.0	-13.4	1.16 H	221	57.1	3.5
4	5350.00	47.5 AV	54.0	-6.5	1.16 H	221	44.0	3.5
5	10640.00	59.1 PK	74.0	-14.9	2.80 H	51	50.2	8.9
6	10640.00	45.7 AV	54.0	-8.3	2.80 H	51	36.8	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	122.7 PK			1.68 V	256	81.5	41.2
2	*5320.00	109.9 AV			1.68 V	256	68.7	41.2
3	5350.00	60.7 PK	74.0	-13.3	1.75 V	231	57.2	3.5
4	5350.00	49.1 AV	54.0	-4.9	1.75 V	231	45.6	3.5
5	10640.00	58.5 PK	74.0	-15.5	1.71 V	135	49.6	8.9
6	10640.00	45.2 AV	54.0	-8.8	1.71 V	135	36.3	8.9

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 54：5270 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.2 PK	74.0	-13.8	1.07 H	265	56.5	3.7
2	5150.00	47.9 AV	54.0	-6.1	1.07 H	265	44.2	3.7
3	*5270.00	110.2 PK			1.07 H	290	69.0	41.2
4	*5270.00	98.2 AV			1.07 H	290	57.0	41.2
5	5350.00	59.8 PK	74.0	-14.2	1.25 H	286	56.3	3.5
6	5350.00	47.5 AV	54.0	-6.5	1.25 H	286	44.0	3.5
7	#10540.00	58.3 PK	68.2	-9.9	1.35 H	112	49.2	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.8 PK	74.0	-12.2	1.63 V	256	58.1	3.7
2	5150.00	48.9 AV	54.0	-5.1	1.63 V	256	45.2	3.7
3	*5270.00	121.9 PK			1.78 V	256	80.7	41.2
4	*5270.00	109.1 AV			1.78 V	256	67.9	41.2
5	5350.00	61.8 PK	74.0	-12.2	1.54 V	238	58.3	3.5
6	5350.00	49.3 AV	54.0	-4.7	1.54 V	238	45.8	3.5
7	#10540.00	58.7 PK	68.2	-9.5	2.44 V	127	49.6	9.1

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 62：5310 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.7 PK	74.0	-13.3	1.16 H	288	57.0	3.7
2	5150.00	47.9 AV	54.0	-6.1	1.16 H	288	44.2	3.7
3	*5310.00	106.5 PK			1.16 H	288	65.3	41.2
4	*5310.00	93.9 AV			1.16 H	288	52.7	41.2
5	5350.00	59.8 PK	74.0	-14.2	1.21 H	265	56.3	3.5
6	5350.00	48.0 AV	54.0	-6.0	1.21 H	265	44.5	3.5
7	10620.00	58.4 PK	74.0	-15.6	1.08 H	315	49.4	9.0
8	10620.00	45.1 AV	54.0	-8.9	1.08 H	315	36.1	9.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.8 PK	74.0	-13.2	1.82 V	256	57.1	3.7
2	5150.00	48.3 AV	54.0	-5.7	1.82 V	256	44.6	3.7
3	*5310.00	117.1 PK			1.84 V	216	75.9	41.2
4	*5310.00	104.5 AV			1.84 V	216	63.3	41.2
5	5350.00	67.1 PK	74.0	-6.9	1.84 V	216	63.6	3.5
6	5350.00	53.3 AV	54.0	-0.7	1.84 V	216	49.8	3.5
7	10620.00	58.7 PK	74.0	-15.3	1.64 V	229	49.7	9.0
8	10620.00	45.5 AV	54.0	-8.5	1.64 V	229	36.5	9.0

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 58：5290 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.2 PK	74.0	-13.8	1.40 H	288	56.5	3.7
2	5150.00	47.8 AV	54.0	-6.2	1.40 H	288	44.1	3.7
3	*5290.00	101.9 PK			1.40 H	288	60.6	41.3
4	*5290.00	89.6 AV			1.40 H	288	48.3	41.3
5	5350.00	59.5 PK	74.0	-14.5	1.40 H	288	56.0	3.5
6	5350.00	48.0 AV	54.0	-6.0	1.40 H	288	44.5	3.5
7	#10580.00	58.8 PK	68.2	-9.4	1.61 H	293	49.7	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.1 PK	74.0	-12.9	1.77 V	211	57.4	3.7
2	5150.00	48.3 AV	54.0	-5.7	1.77 V	211	44.6	3.7
3	*5290.00	114.4 PK			1.77 V	254	73.1	41.3
4	*5290.00	102.0 AV			1.77 V	254	60.7	41.3
5	5350.00	66.6 PK	74.0	-7.4	1.77 V	242	63.1	3.5
6	5350.00	53.5 AV	54.0	-0.5	1.77 V	242	50.0	3.5
7	#10580.00	59.3 PK	68.2	-8.9	2.42 V	196	50.2	9.1

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 (HE80+HE80)	Channel	CH 42：5210 MHz+ CH 58：5290 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.2 PK	74.0	-13.8	1.96 H	253	56.5	3.7
2	5150.00	47.9 AV	54.0	-6.1	1.96 H	253	44.2	3.7
3	*5210.00	99.1 PK			2.02 H	229	57.9	41.2
4	*5210.00	86.0 AV			2.02 H	229	44.8	41.2
5	*5290.00	102.9 PK			2.02 H	229	61.6	41.3
6	*5290.00	89.8 AV			2.02 H	229	48.5	41.3
7	5350.00	60.5 PK	74.0	-13.5	2.41 H	199	57.0	3.5
8	5350.00	48.3 AV	54.0	-5.7	2.41 H	199	44.8	3.5
9	#10420.00	58.0 PK	68.2	-10.2	1.62 H	51	48.8	9.2
10	#10580.00	57.7 PK	68.2	-10.5	3.31 H	192	48.6	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.2 PK	74.0	-12.8	1.84 V	219	57.5	3.7
2	5150.00	52.5 AV	54.0	-1.5	1.84 V	219	48.8	3.7
3	*5210.00	111.9 PK			1.65 V	132	70.7	41.2
4	*5210.00	99.4 AV			1.65 V	132	58.2	41.2
5	*5290.00	112.9 PK			1.65 V	132	71.6	41.3
6	*5290.00	100.4 AV			1.65 V	132	59.1	41.3
7	5350.00	65.3 PK	74.0	-8.7	1.79 V	249	61.8	3.5
8	5350.00	53.6 AV	54.0	-0.4	1.79 V	249	50.1	3.5
9	#10420.00	58.2 PK	68.2	-10.0	1.66 V	196	49.0	9.2
10	#10580.00	57.8 PK	68.2	-10.4	1.83 V	226	48.7	9.1

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 100：5500 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	61.2 PK	74.0	-12.8	2.66 H	298	57.5	3.7
2	5460.00	47.6 AV	54.0	-6.4	2.66 H	298	43.9	3.7
3	#5470.00	60.3 PK	68.2	-7.9	2.75 H	253	56.6	3.7
4	*5500.00	112.3 PK			2.70 H	302	71.0	41.3
5	*5500.00	102.7 AV			2.70 H	302	61.4	41.3
6	11000.00	59.3 PK	74.0	-14.7	1.06 H	296	49.8	9.5
7	11000.00	46.0 AV	54.0	-8.0	1.06 H	296	36.5	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.7 PK	74.0	-12.3	1.84 V	246	58.0	3.7
2	5460.00	50.2 AV	54.0	-3.8	1.84 V	246	46.5	3.7
3	#5470.00	61.6 PK	68.2	-6.6	1.91 V	252	57.9	3.7
4	*5500.00	121.6 PK			1.73 V	252	80.3	41.3
5	*5500.00	112.1 AV			1.73 V	252	70.8	41.3
6	11000.00	60.1 PK	74.0	-13.9	1.77 V	261	50.6	9.5
7	11000.00	46.8 AV	54.0	-7.2	1.77 V	261	37.3	9.5

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	802.11a	Channel	CH 116：5580 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5580.00	113.1 PK			2.68 H	305	71.1	42.0
2	*5580.00	103.6 AV			2.68 H	305	61.6	42.0
3	11160.00	59.1 PK	74.0	-14.9	1.85 H	29	49.9	9.2
4	11160.00	45.9 AV	54.0	-8.1	1.85 H	29	36.7	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	122.5 PK			1.64 V	257	80.5	42.0
2	*5580.00	113.0 AV			1.64 V	257	71.0	42.0
3	11160.00	58.7 PK	74.0	-15.3	1.65 V	114	49.5	9.2
4	11160.00	45.4 AV	54.0	-8.6	1.65 V	114	36.2	9.2

Remarks:

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

RF Mode	802.11a	Channel	CH 140：5700 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5700.00	112.2 PK			2.79 H	211	69.6	42.6
2	*5700.00	102.5 AV			2.79 H	211	59.9	42.6
3	#5725.00	61.7 PK	68.2	-6.5	2.65 H	152	56.8	4.9
4	11400.00	59.8 PK	74.0	-14.2	1.23 H	291	50.3	9.5
5	11400.00	46.5 AV	54.0	-7.5	1.23 H	291	37.0	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	122.2 PK			1.81 V	263	79.6	42.6
2	*5700.00	112.3 AV			1.81 V	263	69.7	42.6
3	#5725.00	66.6 PK	68.2	-1.6	1.81 V	310	61.7	4.9
4	11400.00	59.2 PK	74.0	-14.8	1.86 V	311	49.7	9.5
5	11400.00	46.0 AV	54.0	-8.0	1.86 V	311	36.5	9.5

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	802.11a	Channel	CH 144：5720 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	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg 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	5460.00	57.7 PK	74.0	-16.3	1.72 H	102	54.9	2.8
2	5460.00	44.6 AV	54.0	-9.4	1.72 H	102	41.8	2.8
3	#5470.00	58.7 PK	68.2	-9.5	1.72 H	102	55.9	2.8
4	*5720.00	109.0 PK			1.77 H	102	67.2	41.8
5	*5720.00	99.5 AV			1.77 H	102	57.7	41.8
6	#5850.00	59.8 PK	68.2	-8.4	1.72 H	102	55.4	4.4
7	11440.00	58.5 PK	74.0	-15.5	1.87 H	114	48.9	9.6
8	11440.00	44.9 AV	54.0	-9.1	1.87 H	114	35.3	9.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.9 PK	74.0	-15.1	1.48 V	2	56.1	2.8
2	5460.00	45.4 AV	54.0	-8.6	1.48 V	2	42.6	2.8
3	#5470.00	59.0 PK	68.2	-9.2	1.48 V	2	56.2	2.8
4	*5720.00	118.9 PK			1.48 V	2	77.1	41.8
5	*5720.00	109.0 AV			1.48 V	2	67.2	41.8
6	#5850.00	60.0 PK	68.2	-8.2	1.48 V	2	55.6	4.4
7	11440.00	58.5 PK	74.0	-15.5	1.91 V	99	48.9	9.6
8	11440.00	45.1 AV	54.0	-8.9	1.91 V	99	35.5	9.6

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 100：5500 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	60.1 PK	74.0	-13.9	2.68 H	296	56.4	3.7
2	5460.00	47.7 AV	54.0	-6.3	2.68 H	296	44.0	3.7
3	#5470.00	60.1 PK	68.2	-8.1	2.71 H	305	56.4	3.7
4	*5500.00	112.9 PK			2.70 H	302	71.6	41.3
5	*5500.00	100.2 AV			2.70 H	302	58.9	41.3
6	11000.00	58.7 PK	74.0	-15.3	1.72 H	223	49.2	9.5
7	11000.00	45.3 AV	54.0	-8.7	1.72 H	223	35.8	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.9 PK	74.0	-12.1	1.65 V	285	58.2	3.7
2	5460.00	49.4 AV	54.0	-4.6	1.65 V	285	45.7	3.7
3	#5470.00	62.9 PK	68.2	-5.3	1.90 V	270	59.2	3.7
4	*5500.00	122.7 PK			1.78 V	270	81.4	41.3
5	*5500.00	109.2 AV			1.78 V	270	67.9	41.3
6	11000.00	58.8 PK	74.0	-15.2	1.75 V	223	49.3	9.5
7	11000.00	45.6 AV	54.0	-8.4	1.75 V	223	36.1	9.5

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)	Channel	CH 116：5580 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5580.00	113.9 PK			2.68 H	305	71.9	42.0
2	*5580.00	101.2 AV			2.68 H	305	59.2	42.0
3	11160.00	58.7 PK	74.0	-15.3	2.56 H	174	49.5	9.2
4	11160.00	45.4 AV	54.0	-8.6	2.56 H	174	36.2	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	123.7 PK			1.64 V	257	81.7	42.0
2	*5580.00	110.2 AV			1.64 V	257	68.2	42.0
3	11160.00	58.8 PK	74.0	-15.2	1.95 V	12	49.6	9.2
4	11160.00	45.5 AV	54.0	-8.5	1.95 V	12	36.3	9.2

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 140：5700 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5700.00	115.6 PK			2.79 H	211	73.0	42.6
2	*5700.00	102.7 AV			2.79 H	211	60.1	42.6
3	#5725.00	61.7 PK	68.2	-6.5	2.94 H	216	56.8	4.9
4	11400.00	58.2 PK	74.0	-15.8	1.63 H	322	48.7	9.5
5	11400.00	45.0 AV	54.0	-9.0	1.63 H	322	35.5	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	130.3 PK			1.81 V	267	87.7	42.6
2	*5700.00	111.7 AV			1.81 V	267	69.1	42.6
3	#5725.00	67.9 PK	68.2	-0.3	1.81 V	276	63.0	4.9
4	11400.00	59.1 PK	74.0	-14.9	2.24 V	191	49.6	9.5
5	11400.00	45.8 AV	54.0	-8.2	2.24 V	191	36.3	9.5

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)	Channel	CH 144：5720 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	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg 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	5460.00	58.8 PK	74.0	-15.2	1.68 H	178	56.0	2.8
2	5460.00	44.6 AV	54.0	-9.4	1.68 H	178	41.8	2.8
3	#5470.00	57.8 PK	68.2	-10.4	1.68 H	178	55.0	2.8
4	*5720.00	112.4 PK			1.68 H	178	70.6	41.8
5	*5720.00	99.4 AV			1.68 H	178	57.6	41.8
6	#5850.00	60.0 PK	68.2	-8.2	1.68 H	178	55.6	4.4
7	11440.00	58.3 PK	74.0	-15.7	1.93 H	129	48.7	9.6
8	11440.00	45.2 AV	54.0	-8.8	1.93 H	129	35.6	9.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.6 PK	74.0	-15.4	1.63 V	307	55.8	2.8
2	5460.00	45.4 AV	54.0	-8.6	1.63 V	307	42.6	2.8
3	#5470.00	59.6 PK	68.2	-8.6	1.63 V	307	56.8	2.8
4	*5720.00	122.9 PK			1.63 V	307	81.1	41.8
5	*5720.00	109.2 AV			1.63 V	307	67.4	41.8
6	#5850.00	60.1 PK	68.2	-8.1	1.63 V	307	55.7	4.4
7	11440.00	58.9 PK	74.0	-15.1	1.83 V	129	49.3	9.6
8	11440.00	44.8 AV	54.0	-9.2	1.83 V	129	35.2	9.6

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 102：5510 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	60.4 PK	74.0	-13.6	2.59 H	255	56.7	3.7
2	5460.00	47.8 AV	54.0	-6.2	2.59 H	255	44.1	3.7
3	#5470.00	59.7 PK	68.2	-8.5	2.59 H	263	56.0	3.7
4	*5510.00	111.0 PK			2.66 H	287	69.7	41.3
5	*5510.00	97.5 AV			2.66 H	287	56.2	41.3
6	#5725.00	61.7 PK	68.2	-6.5	2.66 H	287	56.8	4.9
7	11020.00	58.8 PK	74.0	-15.2	1.82 H	120	49.3	9.5
8	11020.00	45.6 AV	54.0	-8.4	1.82 H	120	36.1	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.5 PK	74.0	-10.5	1.74 V	230	59.8	3.7
2	5460.00	49.4 AV	54.0	-4.6	1.74 V	230	45.7	3.7
3	#5470.00	67.8 PK	68.2	-0.4	1.82 V	212	64.1	3.7
4	*5510.00	120.0 PK			1.78 V	215	78.7	41.3
5	*5510.00	108.0 AV			1.78 V	215	66.7	41.3
6	#5725.00	62.9 PK	68.2	-5.3	1.78 V	215	58.0	4.9
7	11020.00	59.3 PK	74.0	-14.7	1.05 V	131	49.8	9.5
8	11020.00	46.1 AV	54.0	-7.9	1.05 V	131	36.6	9.5

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 (HE40)	Channel	CH 110：5550 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5550.00	112.6 PK			2.74 H	302	70.9	41.7
2	*5550.00	99.3 AV			2.74 H	302	57.6	41.7
3	11100.00	59.6 PK	74.0	-14.4	2.24 H	126	50.2	9.4
4	11100.00	46.4 AV	54.0	-7.6	2.24 H	126	37.0	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	121.7 PK			1.62 V	244	80.0	41.7
2	*5550.00	109.8 AV			1.62 V	244	68.1	41.7
3	11100.00	59.0 PK	74.0	-15.0	1.15 V	294	49.6	9.4
4	11100.00	45.6 AV	54.0	-8.4	1.15 V	294	36.2	9.4

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.

RF Mode	802.11ax (HE40)	Channel	CH 134：5670 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	60.8 PK	74.0	-13.2	2.65 H	209	57.1	3.7
2	5460.00	47.7 AV	54.0	-6.3	2.65 H	209	44.0	3.7
3	#5470.00	59.9 PK	68.2	-8.3	2.79 H	211	56.2	3.7
4	*5670.00	111.5 PK			2.79 H	211	69.0	42.5
5	*5670.00	98.5 AV			2.79 H	211	56.0	42.5
6	#5725.00	62.4 PK	68.2	-5.8	2.53 H	204	57.5	4.9
7	11340.00	59.6 PK	74.0	-14.4	1.82 H	25	50.3	9.3
8	11340.00	46.2 AV	54.0	-7.8	1.82 H	25	36.9	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.8 PK	74.0	-13.2	1.70 V	325	57.1	3.7
2	5460.00	48.4 AV	54.0	-5.6	1.70 V	325	44.7	3.7
3	#5470.00	62.6 PK	68.2	-5.6	1.70 V	325	58.9	3.7
4	*5670.00	121.5 PK			1.70 V	325	79.0	42.5
5	*5670.00	108.0 AV			1.70 V	325	65.5	42.5
6	#5725.00	66.3 PK	68.2	-1.9	1.70 V	304	61.4	4.9
7	11340.00	58.8 PK	74.0	-15.2	1.93 V	323	49.5	9.3
8	11340.00	45.4 AV	54.0	-8.6	1.93 V	323	36.1	9.3

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 142：5710 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	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg 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	5460.00	58.6 PK	74.0	-15.4	1.62 H	190	55.8	2.8
2	5460.00	44.7 AV	54.0	-9.3	1.62 H	190	41.9	2.8
3	#5470.00	59.2 PK	68.2	-9.0	1.62 H	190	56.4	2.8
4	*5710.00	109.5 PK			1.62 H	190	67.7	41.8
5	*5710.00	96.7 AV			1.62 H	190	54.9	41.8
6	#5850.00	59.2 PK	68.2	-9.0	1.62 H	190	54.8	4.4
7	11420.00	58.9 PK	74.0	-15.1	1.94 H	127	49.2	9.7
8	11420.00	45.4 AV	54.0	-8.6	1.94 H	127	35.7	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.4 PK	74.0	-15.6	1.71 V	238	55.6	2.8
2	5460.00	45.8 AV	54.0	-8.2	1.71 V	238	43.0	2.8
3	#5470.00	58.9 PK	68.2	-9.3	1.71 V	238	56.1	2.8
4	*5710.00	119.2 PK			1.71 V	238	77.4	41.8
5	*5710.00	106.8 AV			1.71 V	238	65.0	41.8
6	#5850.00	59.8 PK	68.2	-8.4	1.71 V	238	55.4	4.4
7	11420.00	58.9 PK	74.0	-15.1	1.81 V	118	49.2	9.7
8	11420.00	45.4 AV	54.0	-8.6	1.81 V	118	35.7	9.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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 106：5530 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	60.8 PK	74.0	-13.2	2.70 H	302	57.1	3.7
2	5460.00	48.1 AV	54.0	-5.9	2.70 H	302	44.4	3.7
3	#5470.00	60.9 PK	68.2	-7.3	2.65 H	295	57.2	3.7
4	*5530.00	109.3 PK			2.70 H	302	67.7	41.6
5	*5530.00	96.4 AV			2.70 H	302	54.8	41.6
6	#5725.00	61.9 PK	68.2	-6.3	2.54 H	296	57.0	4.9
7	11060.00	60.0 PK	74.0	-14.0	2.74 H	112	50.6	9.4
8	11060.00	46.6 AV	54.0	-7.4	2.74 H	112	37.2	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	67.2 PK	74.0	-6.8	1.62 V	276	63.5	3.7
2	5460.00	51.8 AV	54.0	-2.2	1.62 V	276	48.1	3.7
3	#5470.00	67.7 PK	68.2	-0.5	1.62 V	273	64.0	3.7
4	*5530.00	118.0 PK			1.62 V	275	76.4	41.6
5	*5530.00	105.7 AV			1.62 V	275	64.1	41.6
6	#5725.00	61.8 PK	68.2	-6.4	1.78 V	251	56.9	4.9
7	11060.00	59.8 PK	74.0	-14.2	1.95 V	156	50.4	9.4
8	11060.00	46.6 AV	54.0	-7.4	1.95 V	156	37.2	9.4

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 122：5610 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	60.2 PK	74.0	-13.8	2.70 H	302	56.5	3.7
2	5460.00	46.8 AV	54.0	-7.2	2.70 H	302	43.1	3.7
3	#5470.00	59.9 PK	68.2	-8.3	2.70 H	302	56.2	3.7
4	*5610.00	111.6 PK			2.70 H	302	69.4	42.2
5	*5610.00	98.6 AV			2.70 H	302	56.4	42.2
6	#5725.00	61.8 PK	68.2	-6.4	2.70 H	302	56.9	4.9
7	11220.00	59.3 PK	74.0	-14.7	1.35 H	274	50.4	8.9
8	11220.00	46.0 AV	54.0	-8.0	1.35 H	274	37.1	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.6 PK	74.0	-12.4	1.78 V	326	57.9	3.7
2	5460.00	48.8 AV	54.0	-5.2	1.78 V	326	45.1	3.7
3	#5470.00	61.2 PK	68.2	-7.0	1.78 V	326	57.5	3.7
4	*5610.00	120.7 PK			1.78 V	326	78.5	42.2
5	*5610.00	108.1 AV			1.78 V	326	65.9	42.2
6	#5725.00	63.7 PK	68.2	-4.5	1.78 V	326	58.8	4.9
7	11220.00	58.4 PK	74.0	-15.6	2.43 V	81	49.5	8.9
8	11220.00	45.2 AV	54.0	-8.8	2.43 V	81	36.3	8.9

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 138：5690 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	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg 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	5460.00	58.7 PK	74.0	-15.3	1.62 H	191	55.9	2.8
2	5460.00	44.8 AV	54.0	-9.2	1.62 H	191	42.0	2.8
3	#5470.00	59.4 PK	68.2	-8.8	1.62 H	191	56.6	2.8
4	*5690.00	107.0 PK			1.62 H	191	65.3	41.7
5	*5690.00	93.3 AV			1.62 H	191	51.6	41.7
6	#5850.00	59.7 PK	68.2	-8.5	1.62 H	191	55.3	4.4
7	11380.00	58.5 PK	74.0	-15.5	1.84 H	113	48.8	9.7
8	11380.00	44.3 AV	54.0	-9.7	1.84 H	113	34.6	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.8 PK	74.0	-14.2	1.43 V	179	57.0	2.8
2	5460.00	45.6 AV	54.0	-8.4	1.43 V	179	42.8	2.8
3	#5470.00	60.4 PK	68.2	-7.8	1.43 V	179	57.6	2.8
4	*5690.00	116.0 PK			1.43 V	179	74.3	41.7
5	*5690.00	103.1 AV			1.43 V	179	61.4	41.7
6	#5850.00	59.2 PK	68.2	-9.0	1.43 V	179	54.8	4.4
7	11380.00	58.4 PK	74.0	-15.6	1.79 V	131	48.7	9.7
8	11380.00	44.3 AV	54.0	-9.7	1.79 V	131	34.6	9.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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+HE80)	Channel	CH 106：5530 MHz+ CH 122：5610 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	60.8 PK	74.0	-13.2	1.93 H	257	57.1	3.7
2	5460.00	47.9 AV	54.0	-6.1	1.93 H	257	44.2	3.7
3	#5470.00	60.4 PK	68.2	-7.8	1.93 H	257	56.7	3.7
4	*5530.00	100.7 PK			1.93 H	257	59.1	41.6
5	*5530.00	89.0 AV			1.93 H	257	47.4	41.6
6	*5610.00	113.4 PK			2.01 H	247	71.2	42.2
7	*5610.00	91.5 AV			2.01 H	247	49.3	42.2
8	#5725.00	63.8 PK	68.2	-4.4	2.01 H	247	58.9	4.9
9	11060.00	58.0 PK	74.0	-16.0	1.72 H	103	48.6	9.4
10	11060.00	44.6 AV	54.0	-9.4	1.72 H	103	35.2	9.4
11	11220.00	57.5 PK	74.0	-16.5	1.67 H	113	48.6	8.9
12	11220.00	44.6 AV	54.0	-9.4	1.67 H	113	35.7	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.7 PK	74.0	-10.3	1.65 V	226	60.0	3.7
2	5460.00	51.3 AV	54.0	-2.7	1.65 V	226	47.6	3.7
3	#5470.00	62.9 PK	68.2	-5.3	1.80 V	264	59.2	3.7
4	*5530.00	111.0 PK			1.77 V	238	69.4	41.6
5	*5530.00	99.2 AV			1.77 V	238	57.6	41.6
6	*5610.00	113.3 PK			1.77 V	238	71.1	42.2
7	*5610.00	101.2 AV			1.77 V	238	59.0	42.2
8	#5725.00	66.8 PK	68.2	-1.4	1.52 V	238	61.9	4.9
9	11060.00	58.1 PK	74.0	-15.9	1.63 V	196	48.7	9.4
10	11060.00	44.8 AV	54.0	-9.2	1.63 V	196	35.4	9.4
11	11220.00	58.1 PK	74.0	-15.9	1.96 V	126	49.2	8.9
12	11220.00	44.9 AV	54.0	-9.1	1.96 V	126	36.0	8.9

Remarks:

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

RF Mode	802.11a	Channel	CH 149：5745 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	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg 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	#5640.00	58.7 PK	68.2	-9.5	3.53 H	199	54.9	3.8
2	*5745.00	115.9 PK			3.53 H	199	74.0	41.9
3	*5745.00	106.0 AV			3.53 H	199	64.1	41.9
4	#5999.60	59.8 PK	68.2	-8.4	3.53 H	199	55.0	4.8
5	11490.00	58.7 PK	74.0	-15.3	1.77 H	103	49.1	9.6
6	11490.00	45.5 AV	54.0	-8.5	1.77 H	103	35.9	9.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5600.00	60.6 PK	68.2	-7.6	1.78 V	326	57.0	3.6
2	*5745.00	125.7 PK			1.78 V	326	83.8	41.9
3	*5745.00	116.1 AV			1.78 V	326	74.2	41.9
4	#5992.00	58.8 PK	68.2	-9.4	1.78 V	326	54.1	4.7
5	11490.00	58.9 PK	74.0	-15.1	1.79 V	152	49.3	9.6
6	11490.00	46.0 AV	54.0	-8.0	1.79 V	152	36.4	9.6

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.

RF Mode	802.11a	Channel	CH 157：5785 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	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg 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	#5637.20	59.2 PK	68.2	-9.0	2.83 H	218	55.5	3.7
2	*5785.00	114.8 PK			2.83 H	218	72.7	42.1
3	*5785.00	105.4 AV			2.83 H	218	63.3	42.1
4	#5995.60	59.6 PK	68.2	-8.6	2.83 H	218	54.8	4.8
5	11570.00	59.0 PK	74.0	-15.0	2.81 H	63	49.2	9.8
6	11570.00	45.9 AV	54.0	-8.1	2.81 H	63	36.1	9.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5602.80	59.5 PK	68.2	-8.7	1.77 V	218	55.9	3.6
2	*5785.00	125.8 PK			1.77 V	218	83.7	42.1
3	*5785.00	116.2 AV			1.77 V	218	74.1	42.1
4	#5962.80	59.4 PK	68.2	-8.8	1.77 V	218	54.8	4.6
5	11570.00	59.3 PK	74.0	-14.7	1.79 V	146	49.5	9.8
6	11570.00	46.1 AV	54.0	-7.9	1.79 V	146	36.3	9.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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 165：5825 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	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg 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	#5642.00	58.2 PK	68.2	-10.0	2.79 H	214	54.4	3.8
2	*5825.00	115.5 PK			2.79 H	214	73.4	42.1
3	*5825.00	105.9 AV			2.79 H	214	63.8	42.1
4	#5990.00	59.4 PK	68.2	-8.8	2.79 H	214	54.8	4.6
5	11650.00	58.6 PK	74.0	-15.4	2.97 H	61	48.9	9.7
6	11650.00	45.9 AV	54.0	-8.1	2.97 H	61	36.2	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5619.60	59.8 PK	68.2	-8.4	1.83 V	219	56.2	3.6
2	*5825.00	126.2 PK			1.83 V	219	84.1	42.1
3	*5825.00	116.5 AV			1.83 V	219	74.4	42.1
4	#5992.00	59.4 PK	68.2	-8.8	1.83 V	219	54.7	4.7
5	11650.00	59.4 PK	74.0	-14.6	1.74 V	138	49.7	9.7
6	11650.00	46.1 AV	54.0	-7.9	1.74 V	138	36.4	9.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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 149：5745 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5624.00	59.0 PK	68.2	-9.2	3.40 H	205	55.4	3.6
2	*5745.00	117.0 PK			3.40 H	205	75.1	41.9
3	*5745.00	104.1 AV			3.40 H	205	62.2	41.9
4	#5992.00	59.3 PK	68.2	-8.9	3.40 H	205	54.6	4.7
5	11490.00	59.2 PK	74.0	-14.8	2.33 H	193	49.6	9.6
6	11490.00	45.8 AV	54.0	-8.2	2.33 H	193	36.2	9.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.80	61.2 PK	68.2	-7.0	1.78 V	215	57.4	3.8
2	*5745.00	125.2 PK			1.78 V	215	83.3	41.9
3	*5745.00	113.9 AV			1.78 V	215	72.0	41.9
4	#5990.40	60.6 PK	68.2	-7.6	1.78 V	215	56.0	4.6
5	11490.00	59.2 PK	74.0	-14.8	1.69 V	234	49.6	9.6
6	11490.00	45.8 AV	54.0	-8.2	1.69 V	234	36.2	9.6

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 157：5785 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	#5637.60	59.4 PK	68.2	-8.8	3.00 H	222	55.7	3.7
2	*5785.00	116.5 PK			3.00 H	222	74.4	42.1
3	*5785.00	103.8 AV			3.00 H	222	61.7	42.1
4	#5984.40	60.2 PK	68.2	-8.0	3.00 H	222	55.6	4.6
5	11570.00	59.0 PK	74.0	-15.0	2.06 H	115	49.2	9.8
6	11570.00	45.7 AV	54.0	-8.3	2.06 H	115	35.9	9.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5611.20	60.3 PK	68.2	-7.9	1.63 V	317	56.6	3.7
2	*5785.00	126.1 PK			1.63 V	317	84.0	42.1
3	*5785.00	113.8 AV			1.63 V	317	71.7	42.1
4	#5972.00	59.5 PK	68.2	-8.7	1.63 V	317	54.9	4.6
5	11570.00	59.6 PK	74.0	-14.4	2.63 V	112	49.8	9.8
6	11570.00	46.3 AV	54.0	-7.7	2.63 V	112	36.5	9.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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 165：5825 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	#5600.40	59.0 PK	68.2	-9.2	2.19 H	205	55.4	3.6
2	*5825.00	115.2 PK			2.19 H	205	73.1	42.1
3	*5825.00	103.2 AV			2.19 H	205	61.1	42.1
4	#5992.40	59.8 PK	68.2	-8.4	2.19 H	205	55.0	4.8
5	11650.00	59.4 PK	74.0	-14.6	1.62 H	336	49.7	9.7
6	11650.00	46.2 AV	54.0	-7.8	1.62 H	336	36.5	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.20	60.6 PK	68.2	-7.6	1.71 V	135	56.8	3.8
2	*5825.00	126.4 PK			1.71 V	135	84.3	42.1
3	*5825.00	114.3 AV			1.71 V	135	72.2	42.1
4	#5991.20	60.2 PK	68.2	-8.0	1.71 V	135	55.5	4.7
5	11650.00	59.9 PK	74.0	-14.1	1.48 V	263	50.2	9.7
6	11650.00	46.6 AV	54.0	-7.4	1.48 V	263	36.9	9.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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 151：5755 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.60	59.4 PK	68.2	-8.8	3.08 H	205	55.6	3.8
2	*5755.00	112.7 PK			3.08 H	205	70.7	42.0
3	*5755.00	99.6 AV			3.08 H	205	57.6	42.0
4	#5980.40	59.6 PK	68.2	-8.6	3.08 H	205	55.0	4.6
5	11510.00	58.8 PK	74.0	-15.2	1.78 H	333	49.2	9.6
6	11510.00	45.4 AV	54.0	-8.6	1.78 H	333	35.8	9.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.00	66.0 PK	68.2	-2.2	1.78 V	215	62.2	3.8
2	*5755.00	122.9 PK			1.78 V	215	80.9	42.0
3	*5755.00	109.9 AV			1.78 V	215	67.9	42.0
4	#5997.20	59.7 PK	68.2	-8.5	1.78 V	215	54.9	4.8
5	11510.00	59.2 PK	74.0	-14.8	2.69 V	195	49.6	9.6
6	11510.00	46.0 AV	54.0	-8.0	2.69 V	195	36.4	9.6

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 159：5795 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.80	58.9 PK	68.2	-9.3	2.19 H	286	55.1	3.8
2	*5795.00	113.2 PK			2.19 H	286	71.1	42.1
3	*5795.00	101.2 AV			2.19 H	286	59.1	42.1
4	#5995.60	59.8 PK	68.2	-8.4	2.19 H	286	55.0	4.8
5	11590.00	59.4 PK	74.0	-14.6	1.96 H	75	49.5	9.9
6	11590.00	46.1 AV	54.0	-7.9	1.96 H	75	36.2	9.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.20	61.1 PK	68.2	-7.1	1.70 V	145	57.3	3.8
2	*5795.00	123.3 PK			1.70 V	145	81.2	42.1
3	*5795.00	110.3 AV			1.70 V	145	68.2	42.1
4	#5960.00	59.1 PK	68.2	-9.1	1.70 V	145	54.5	4.6
5	11590.00	59.3 PK	74.0	-14.7	2.50 V	163	49.4	9.9
6	11590.00	46.0 AV	54.0	-8.0	2.50 V	163	36.1	9.9

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 155：5775 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	#5644.40	59.1 PK	68.2	-9.1	3.00 H	222	55.3	3.8
2	*5775.00	106.8 PK			3.00 H	222	64.7	42.1
3	*5775.00	94.2 AV			3.00 H	222	52.1	42.1
4	#5971.60	59.7 PK	68.2	-8.5	3.00 H	222	55.1	4.6
5	11550.00	60.1 PK	74.0	-13.9	1.35 H	344	50.4	9.7
6	11550.00	46.8 AV	54.0	-7.2	1.35 H	344	37.1	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.40	67.7 PK	68.2	-0.5	1.44 V	359	63.9	3.8
2	*5775.00	115.3 PK			1.63 V	307	73.2	42.1
3	*5775.00	103.1 AV			1.63 V	307	61.0	42.1
4	#5981.20	60.5 PK	68.2	-7.7	1.44 V	359	55.9	4.6
5	11550.00	59.3 PK	74.0	-14.7	1.82 V	193	49.6	9.7
6	11550.00	46.0 AV	54.0	-8.0	1.82 V	193	36.3	9.7

Remarks:

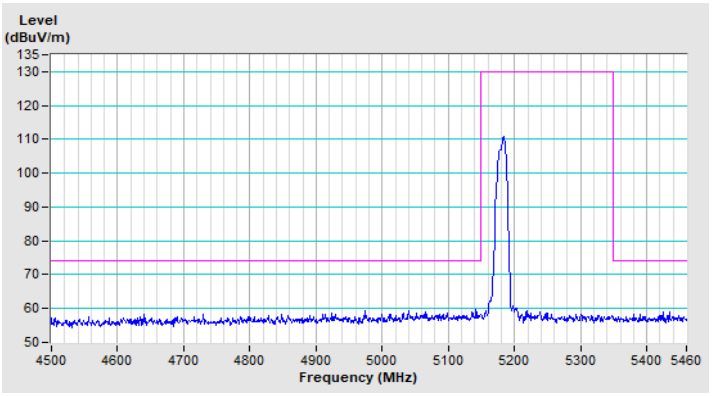
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

Mode A

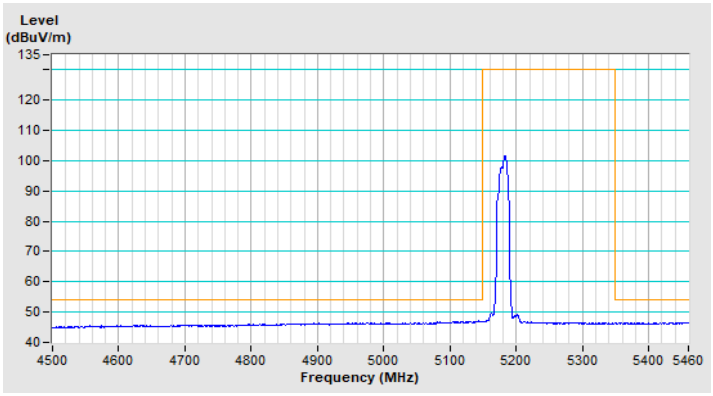
Plot of Band Edge

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

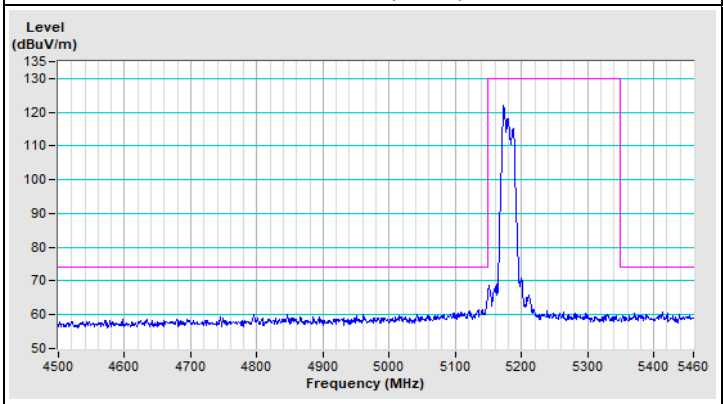
802.11a Channel 36



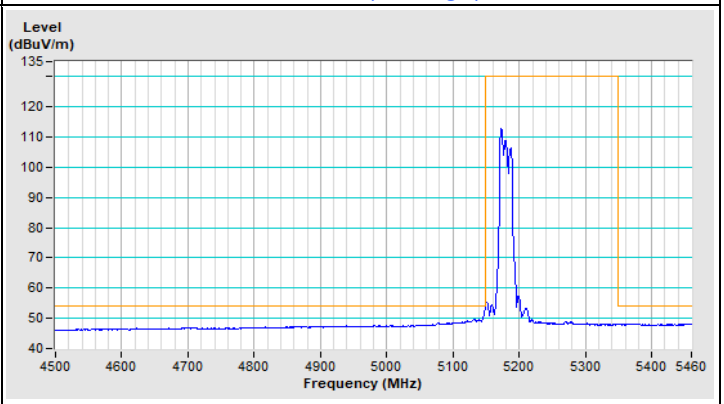
Horizontal (Peak)



Horizontal (Average)

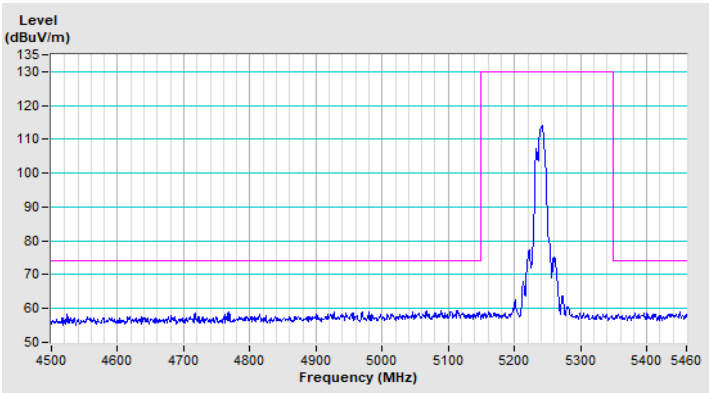


Vertical (Peak)

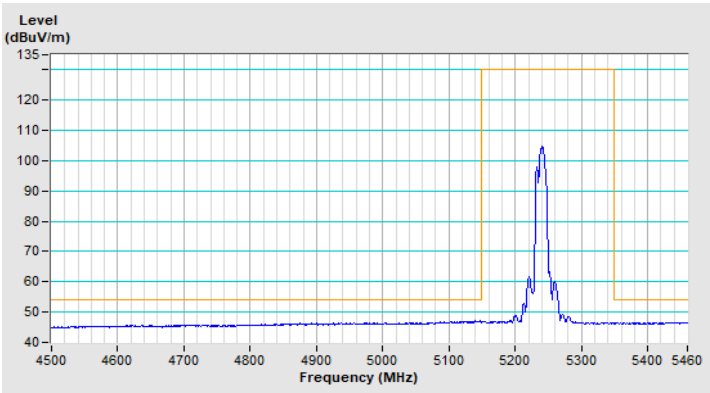


Vertical (Average)

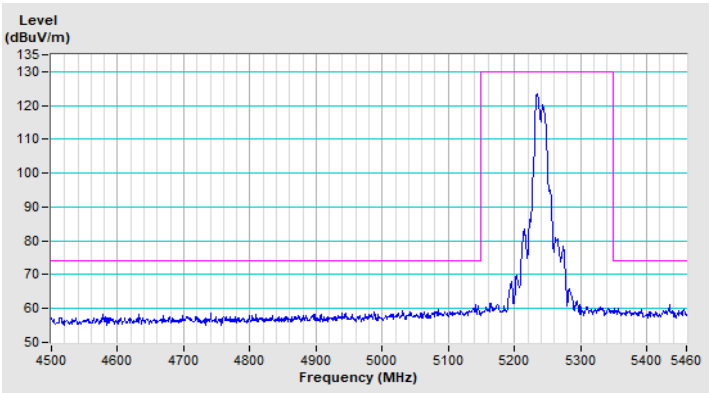
802.11a Channel 48



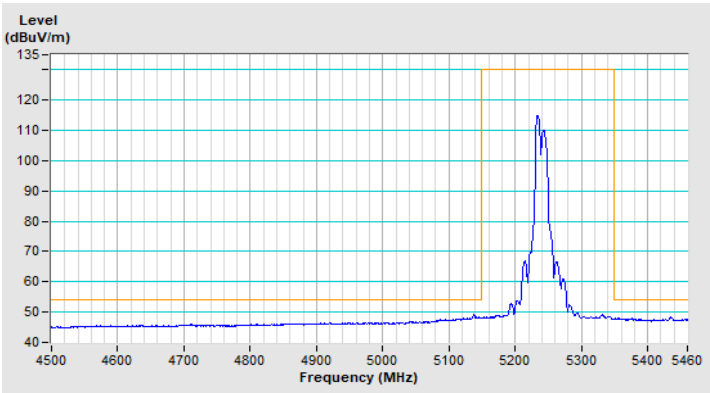
Horizontal (Peak)



Horizontal (Average)



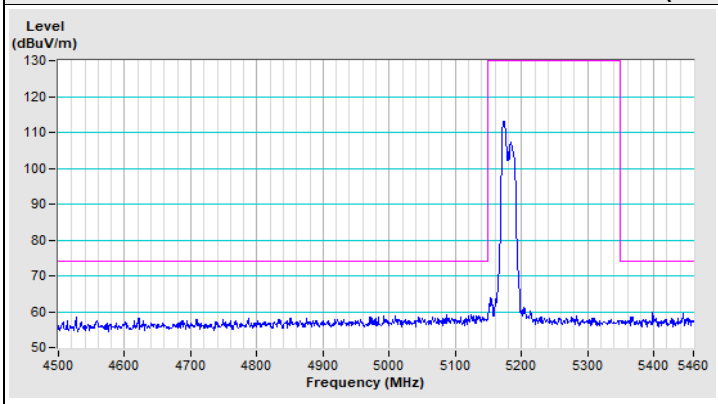
Vertical (Peak)



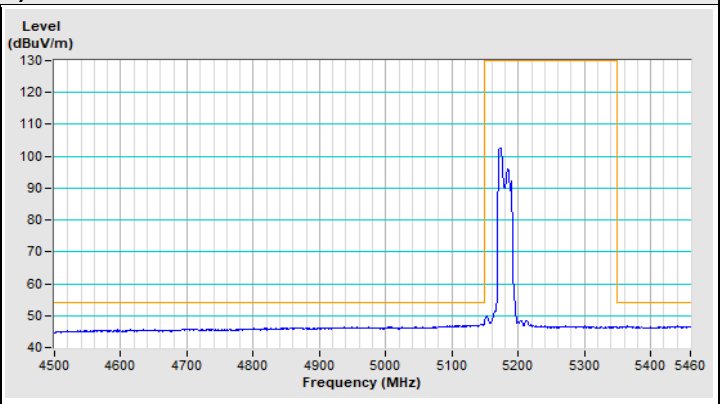
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

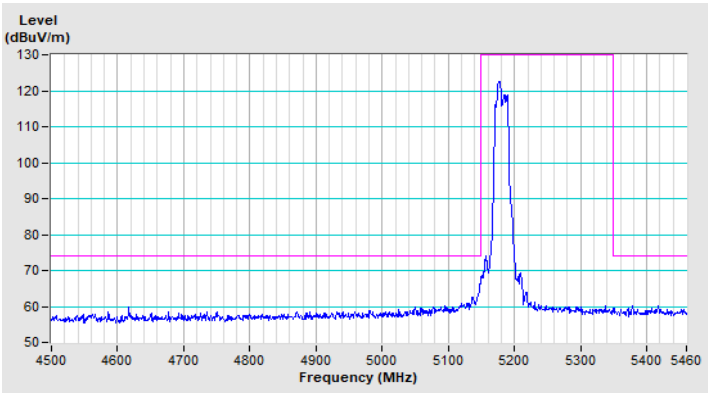
802.11ax (HE20) Channel 36



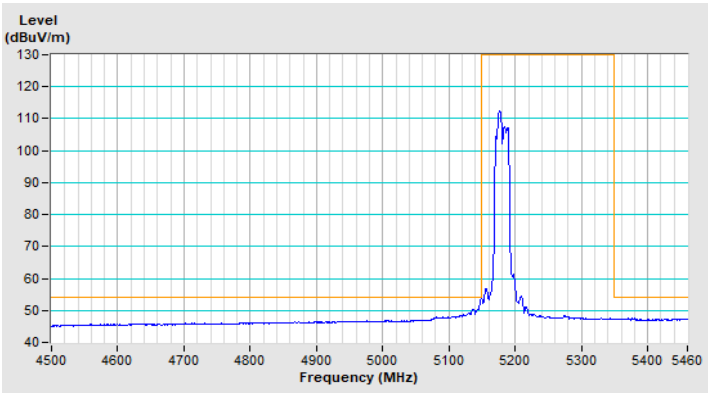
Horizontal (Peak)



Horizontal (Average)

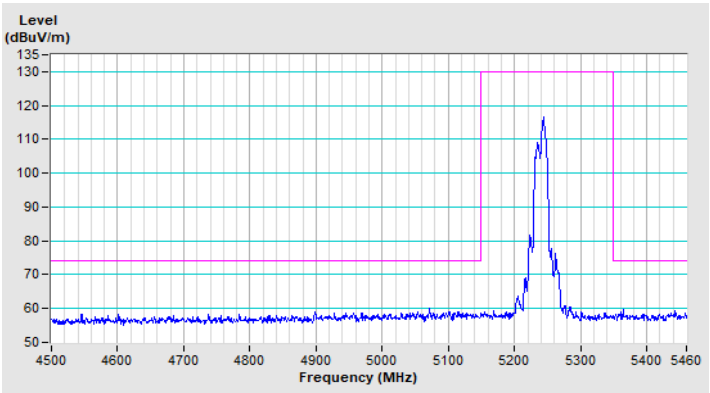


Vertical (Peak)

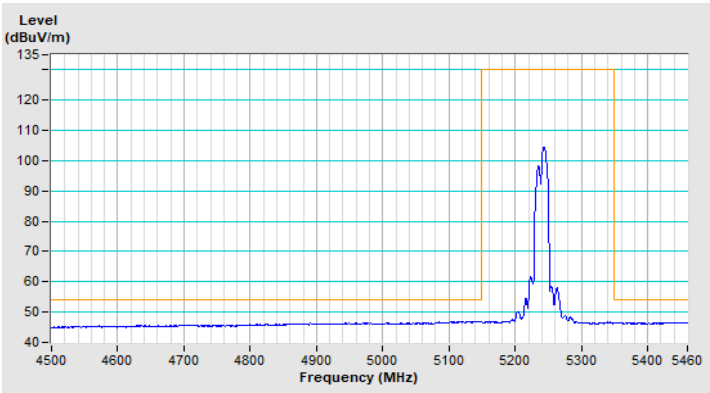


Vertical (Average)

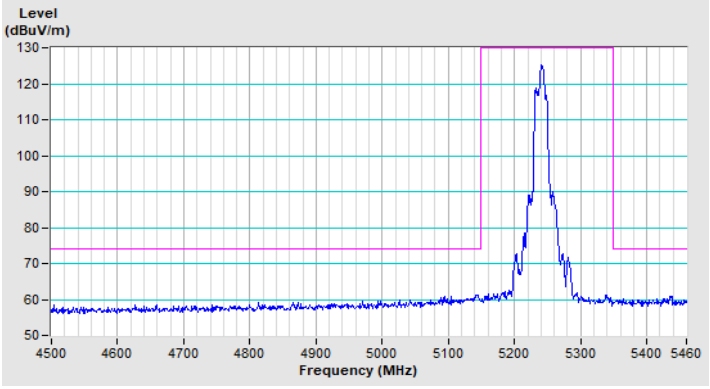
802.11ax (HE20) Channel 48



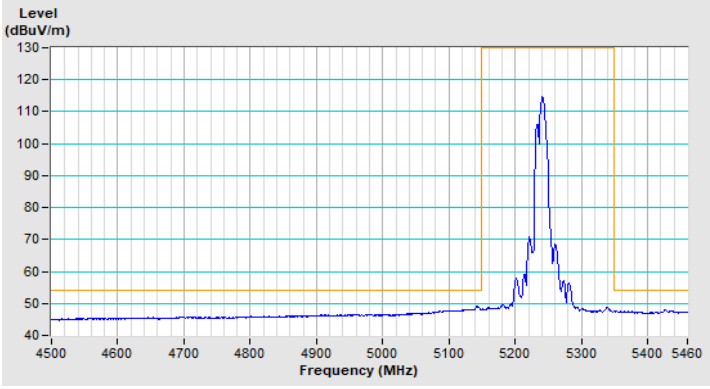
Horizontal (Peak)



Horizontal (Average)



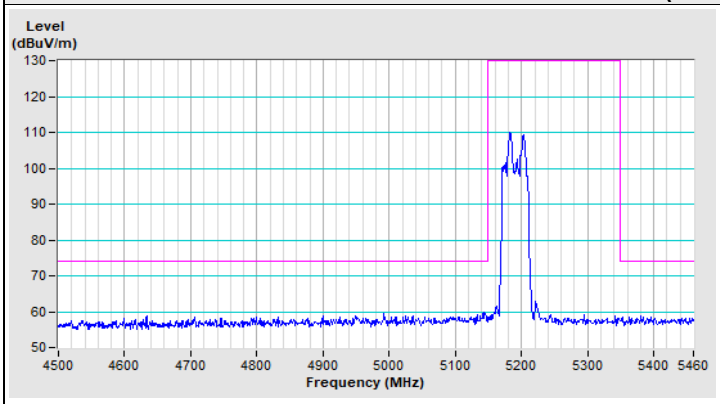
Vertical (Peak)



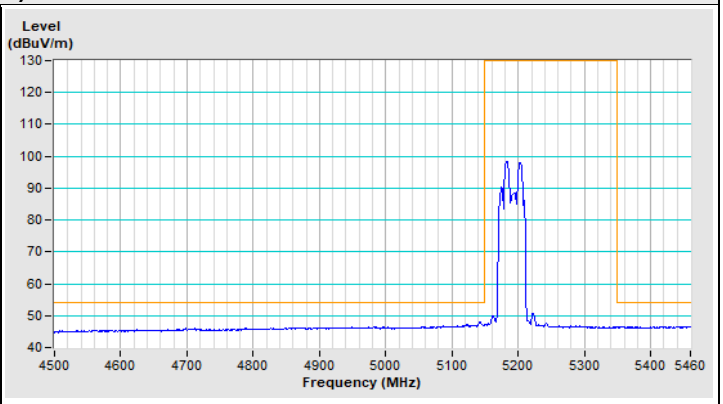
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

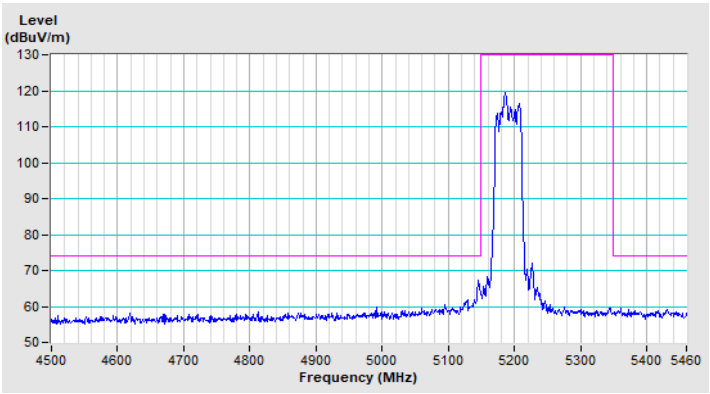
802.11ax (HE40) Channel 38



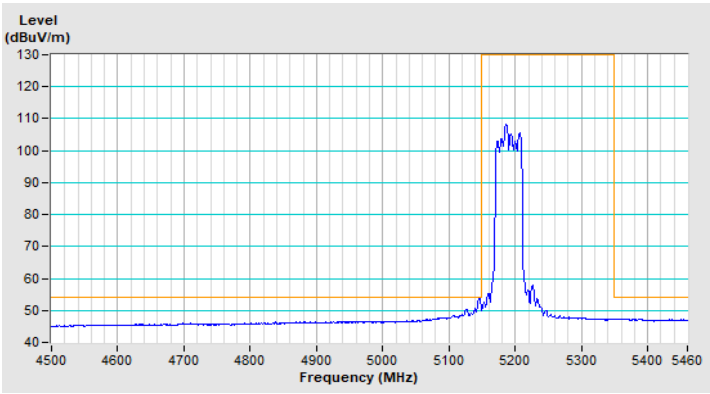
Horizontal (Peak)



Horizontal (Average)

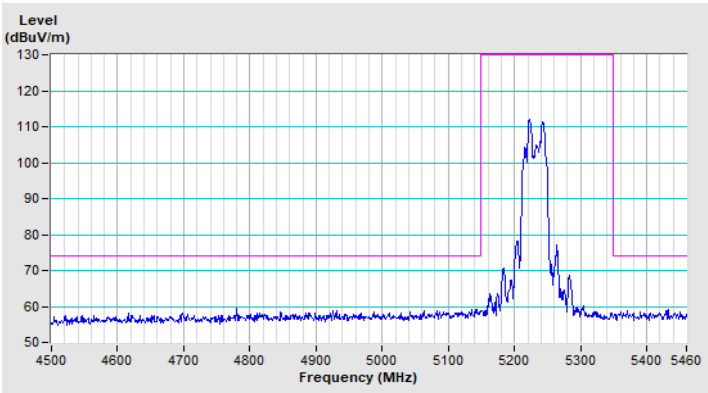


Vertical (Peak)

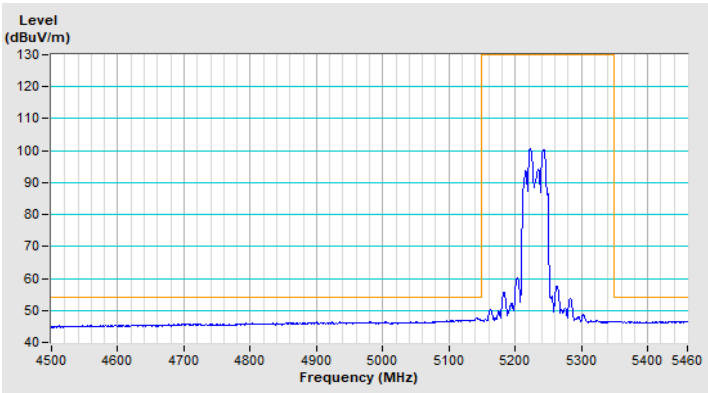


Vertical (Average)

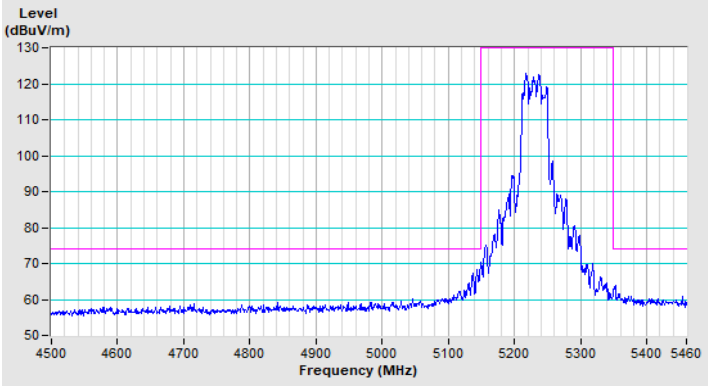
802.11ax (HE40) Channel 46



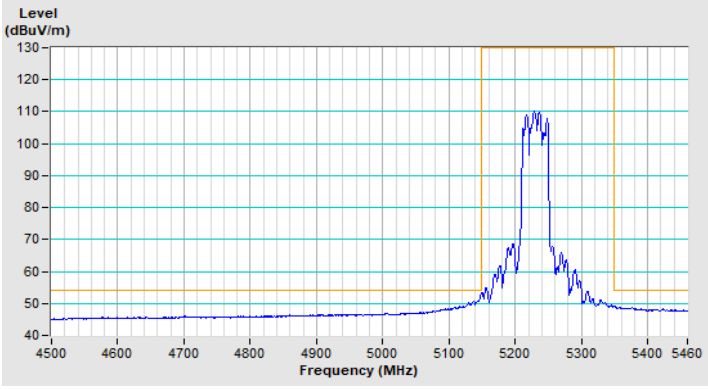
Horizontal (Peak)



Horizontal (Average)



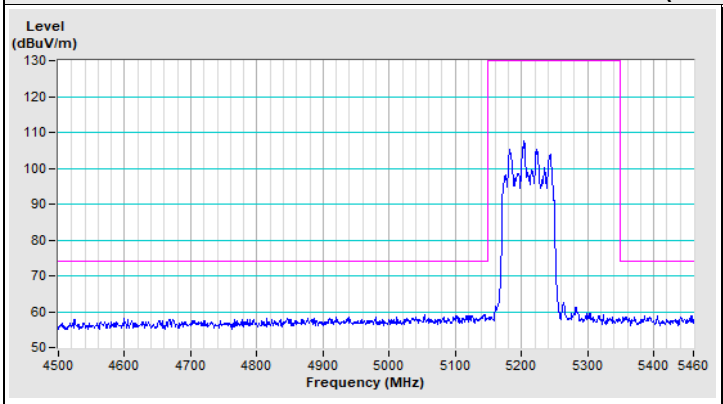
Vertical (Peak)



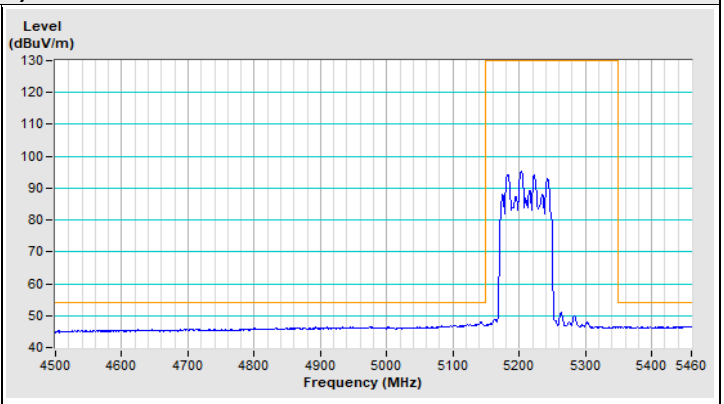
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

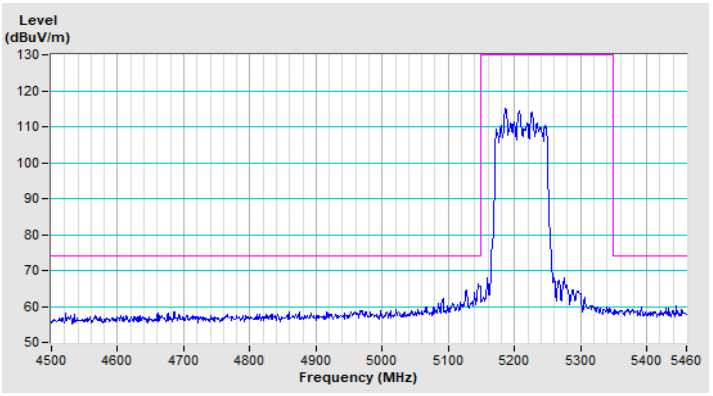
802.11ax (HE80) Channel 42



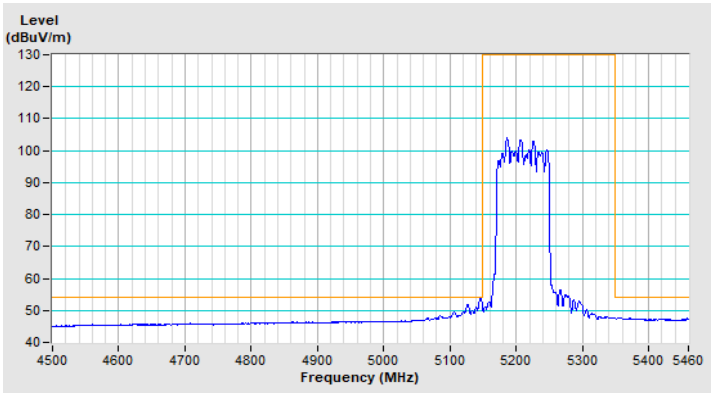
Horizontal (Peak)



Horizontal (Average)



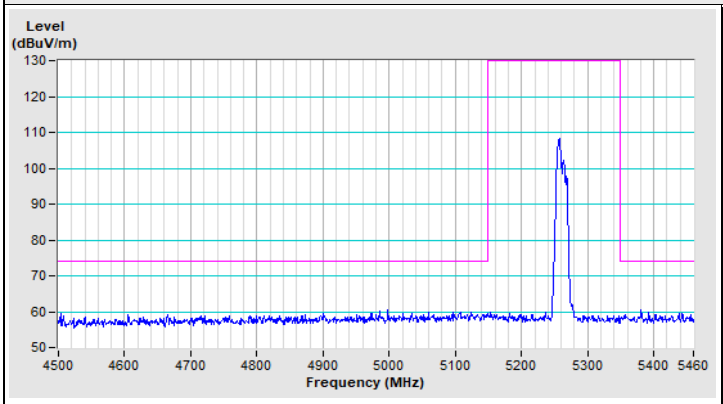
Vertical (Peak)



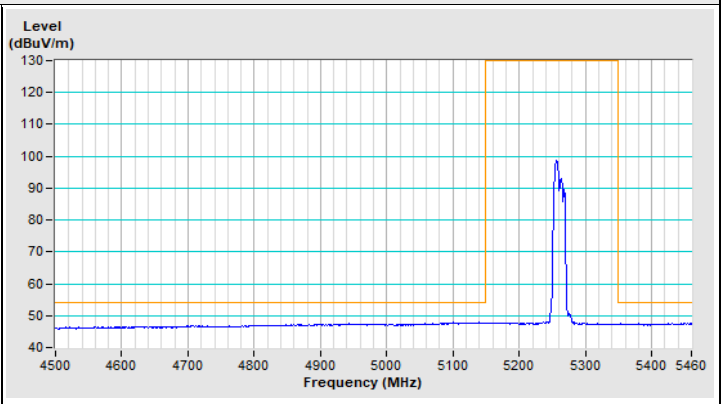
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

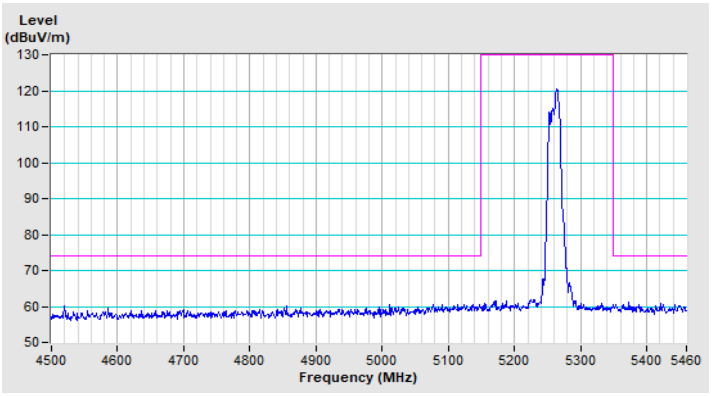
802.11a Channel 52



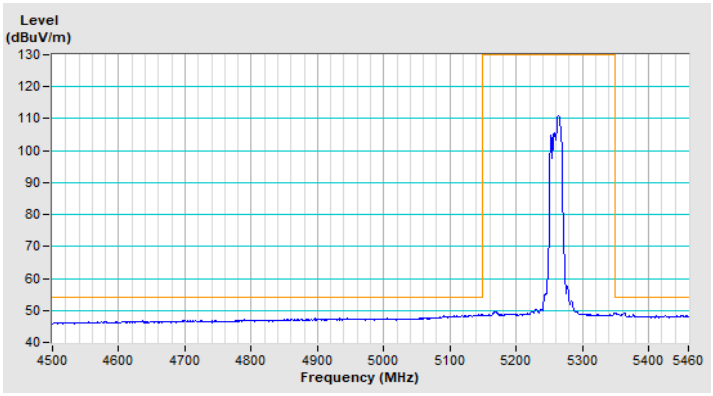
Horizontal (Peak)



Horizontal (Average)

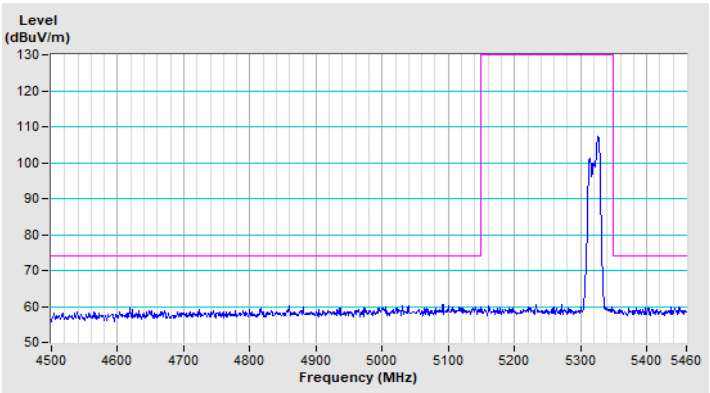


Vertical (Peak)

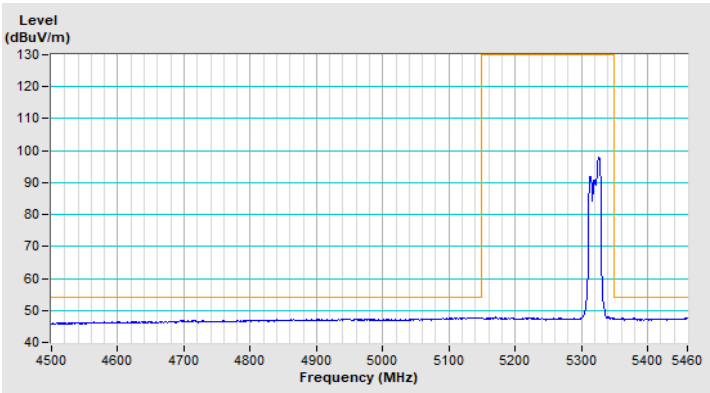


Vertical (Average)

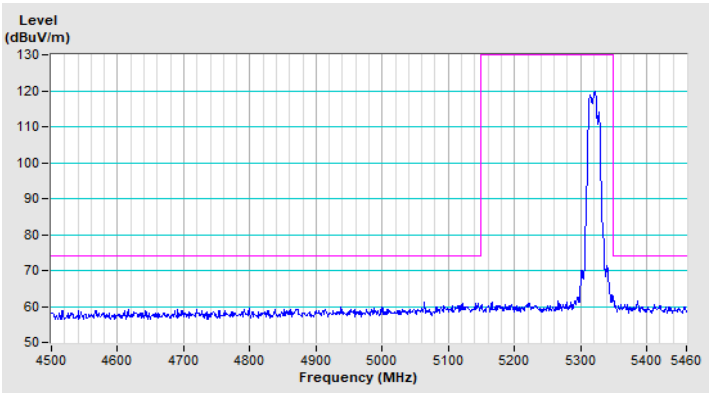
802.11a Channel 64



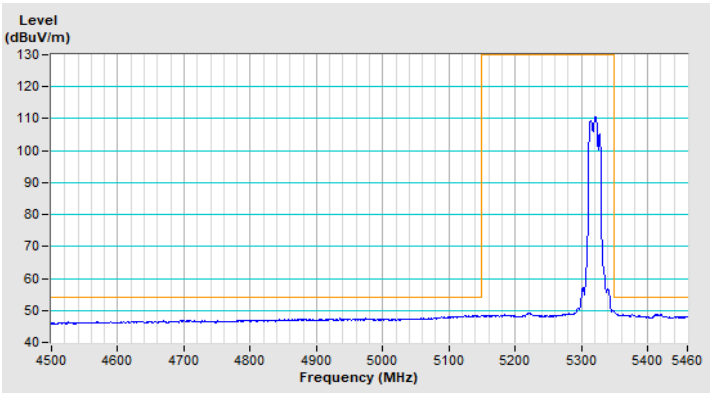
Horizontal (Peak)



Horizontal (Average)



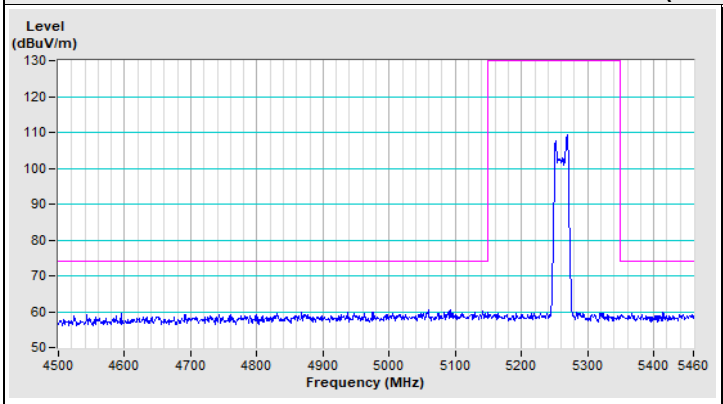
Vertical (Peak)



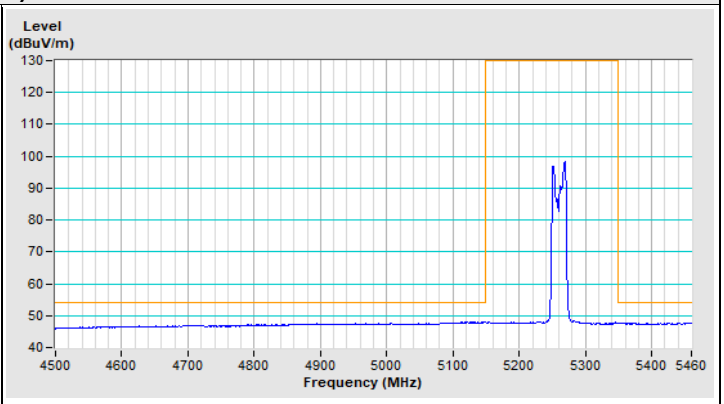
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

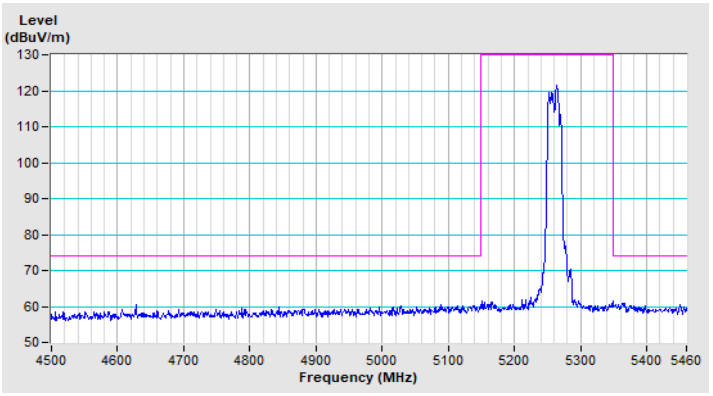
802.11ax (HE20) Channel 52



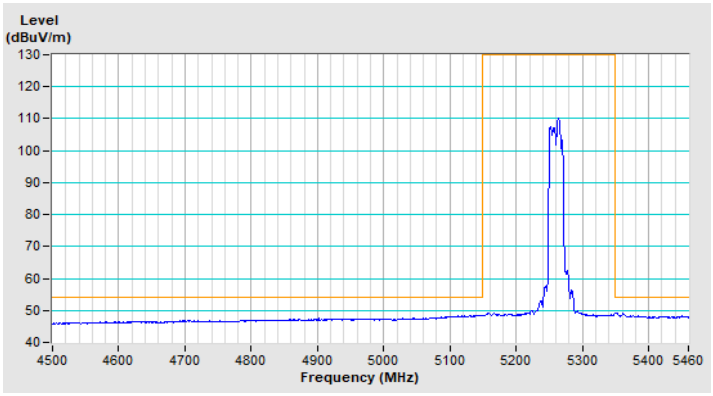
Horizontal (Peak)



Horizontal (Average)

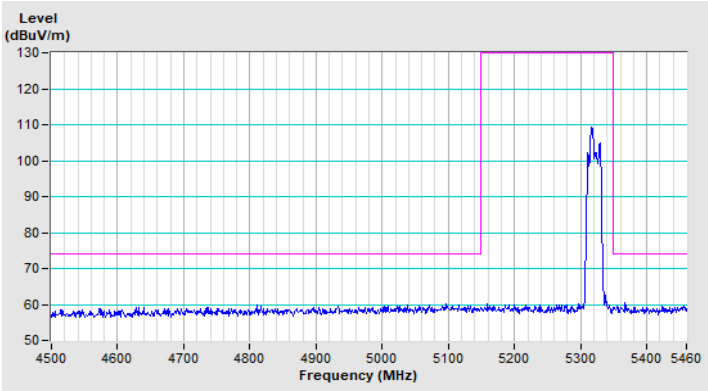


Vertical (Peak)

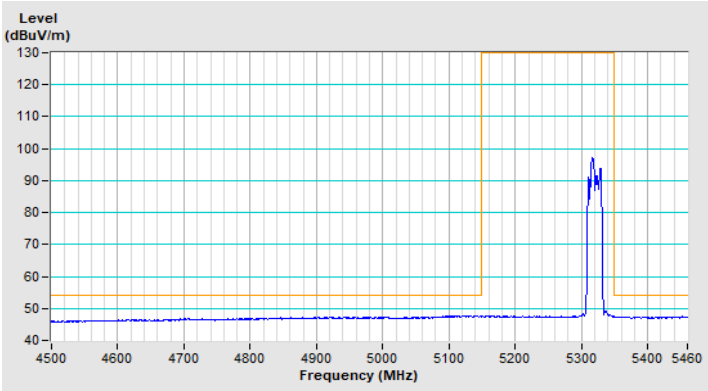


Vertical (Average)

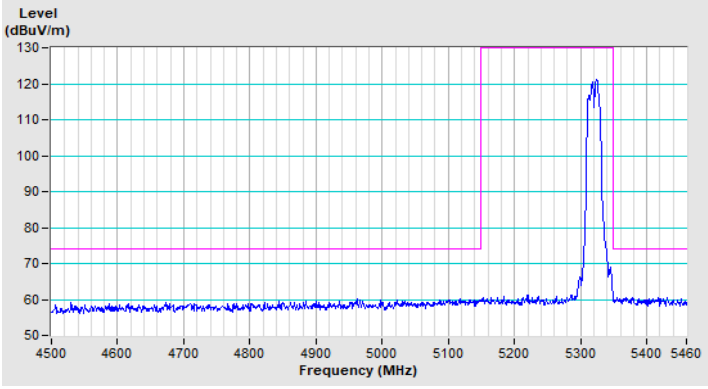
802.11ax (HE20) Channel 64



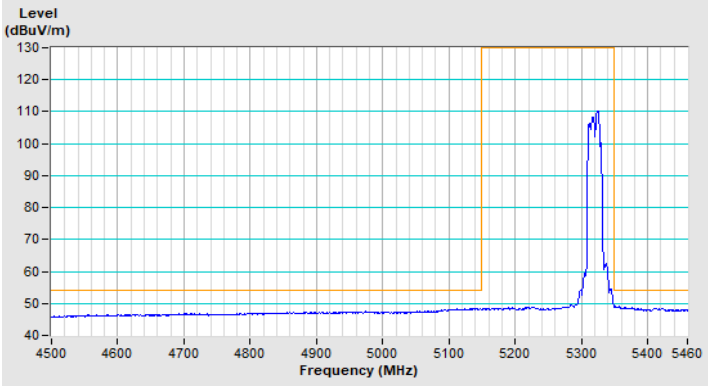
Horizontal (Peak)



Horizontal (Average)



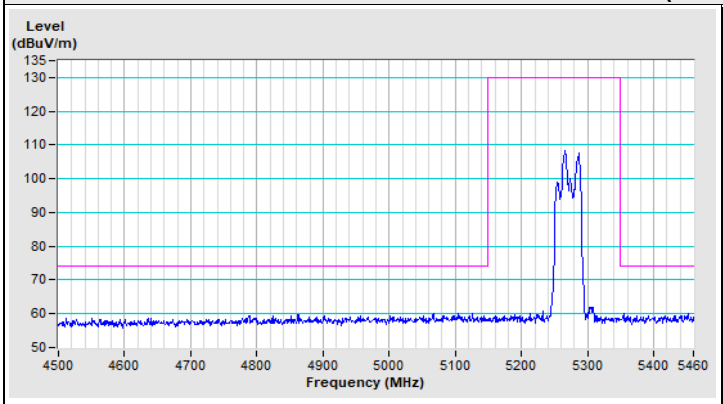
Vertical (Peak)



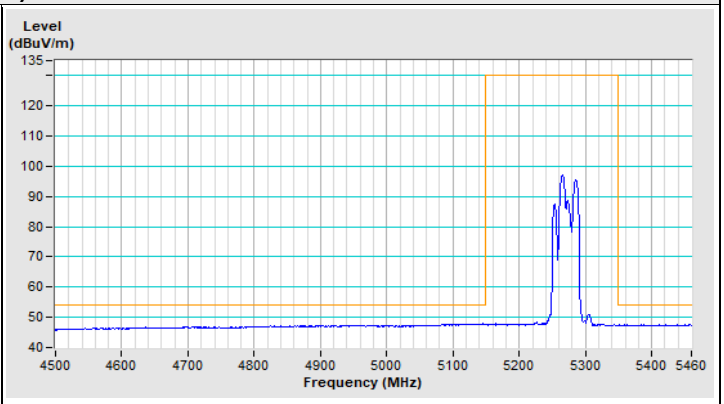
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

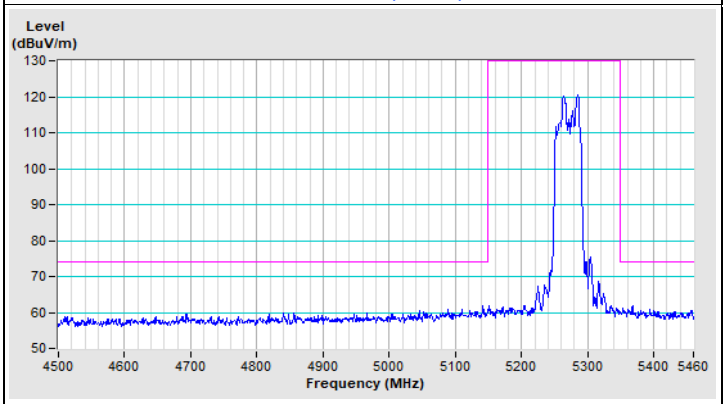
802.11ax (HE40) Channel 54



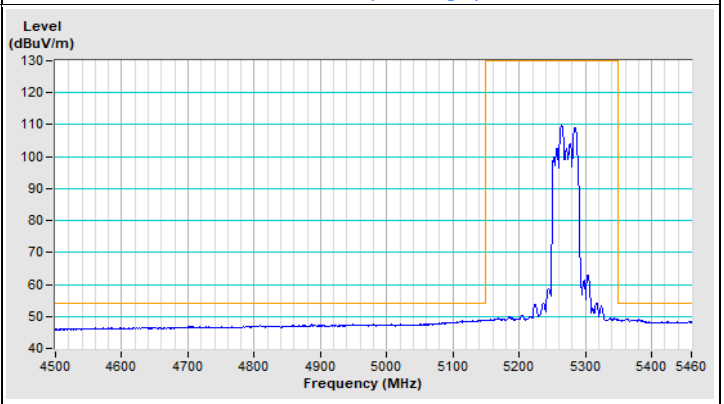
Horizontal (Peak)



Horizontal (Average)

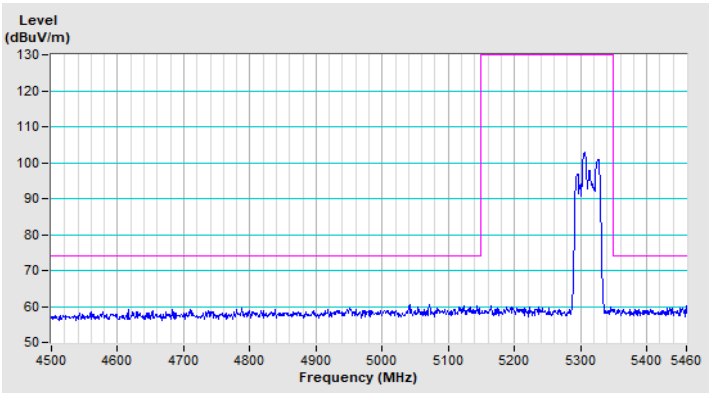


Vertical (Peak)

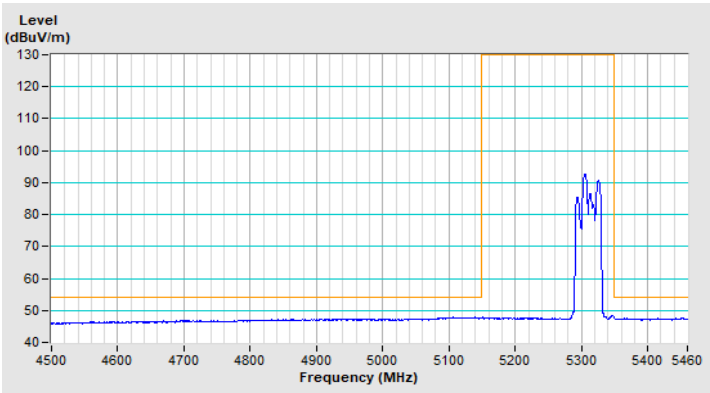


Vertical (Average)

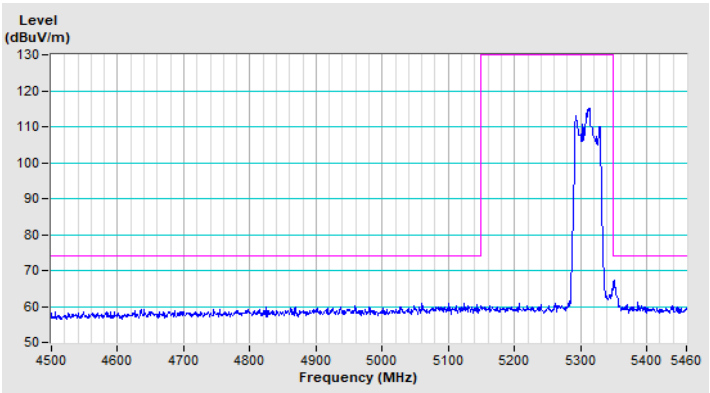
802.11ax (HE40) Channel 62



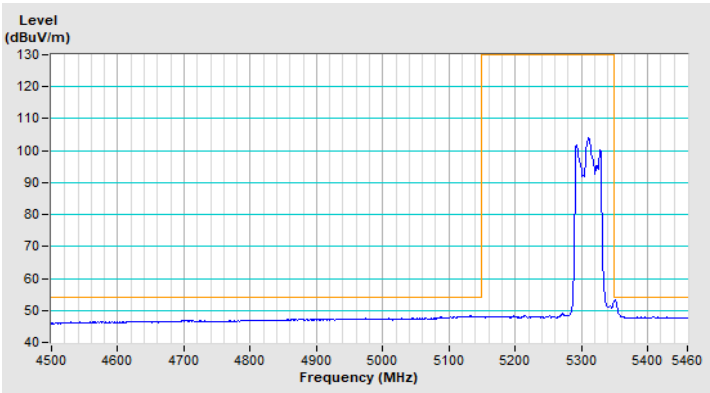
Horizontal (Peak)



Horizontal (Average)



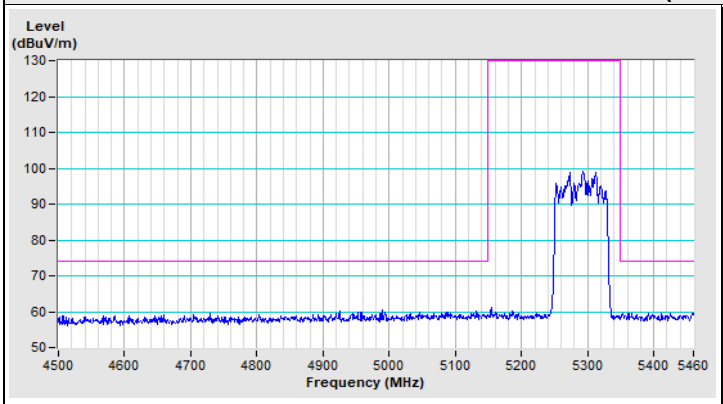
Vertical (Peak)



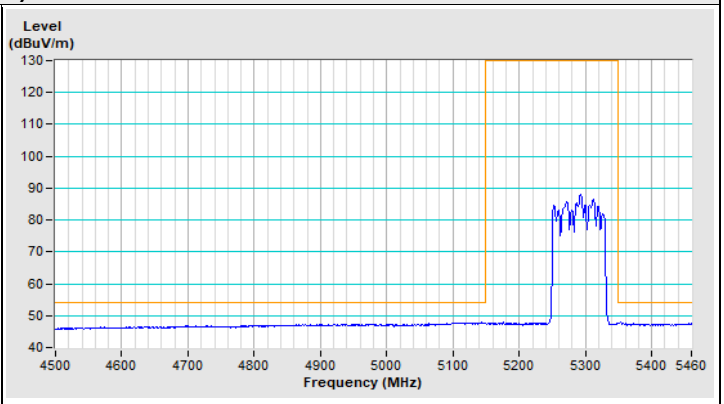
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

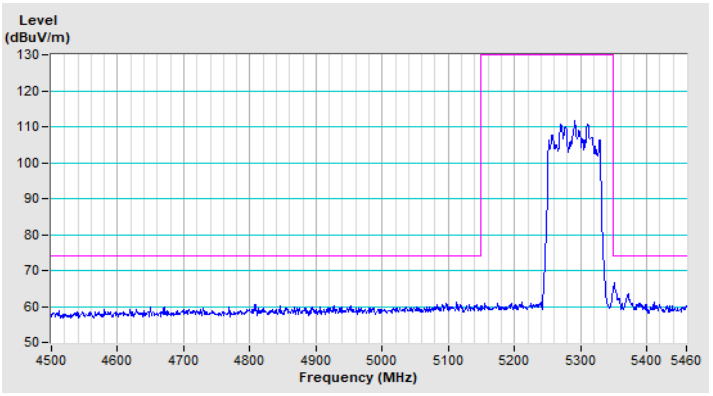
802.11ax (HE80) Channel 58



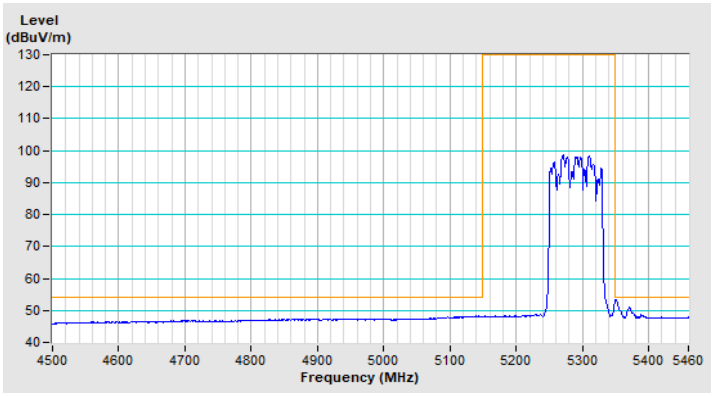
Horizontal (Peak)



Horizontal (Average)

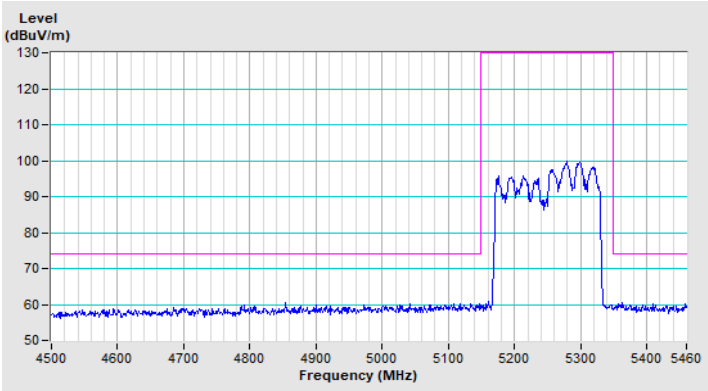


Vertical (Peak)

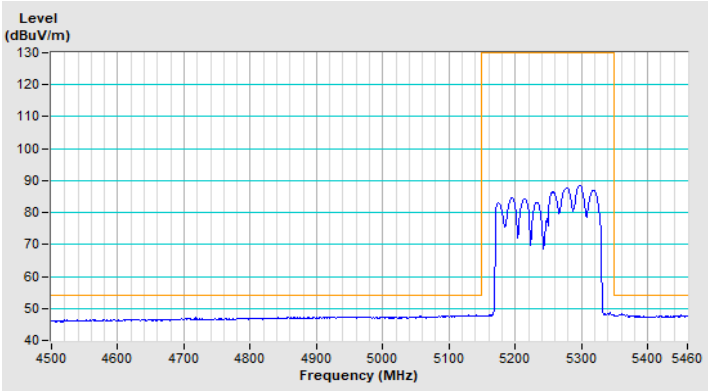


Vertical (Average)

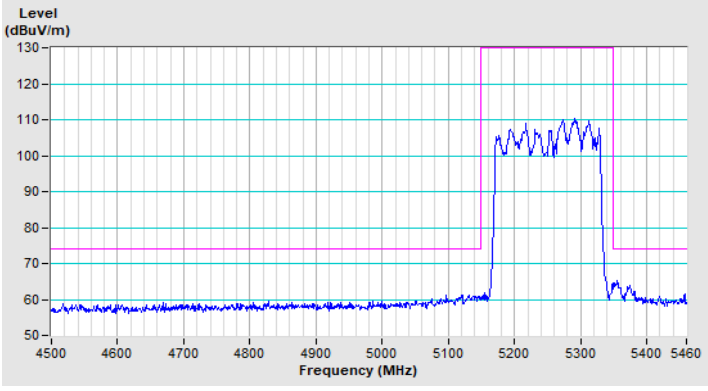
802.11ax (HE80+HE80) Channel 42+58



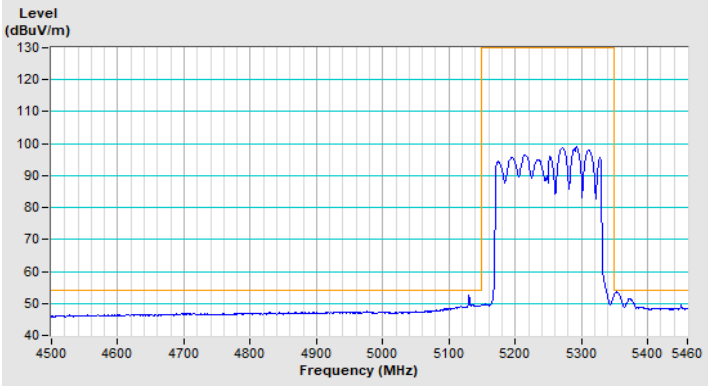
Horizontal (Peak)



Horizontal (Average)



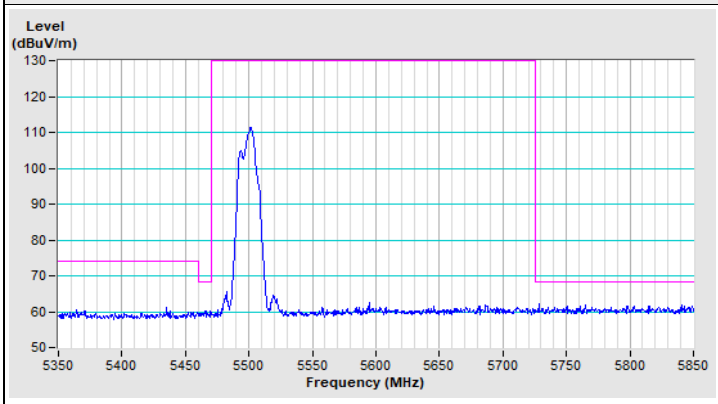
Vertical (Peak)



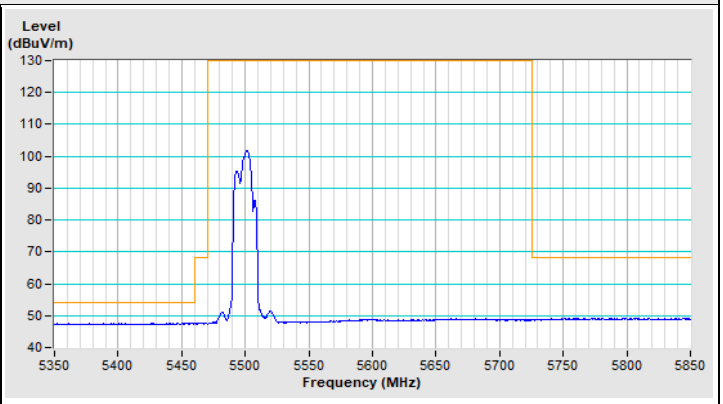
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

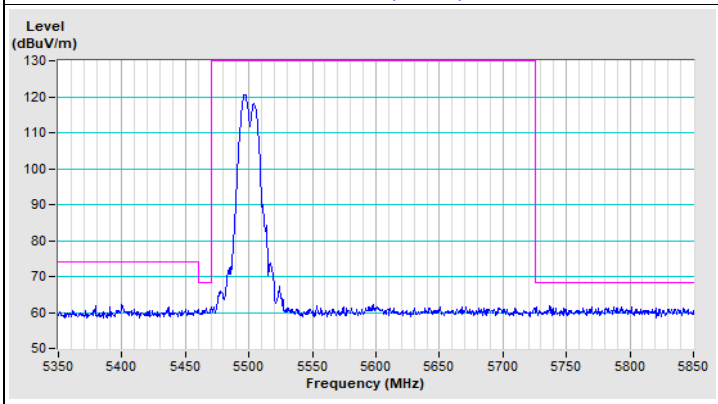
802.11a Channel 100



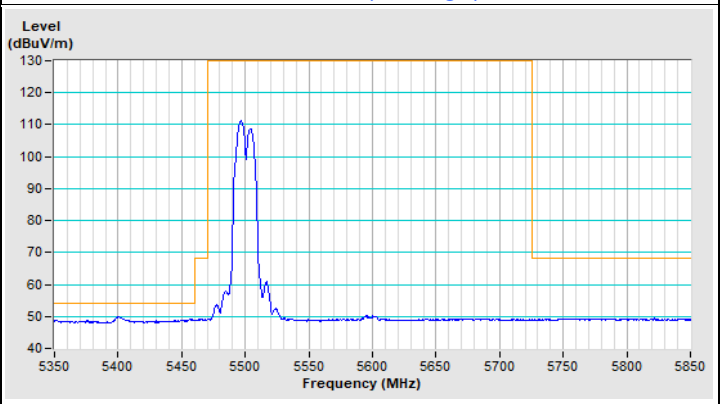
Horizontal (Peak)



Horizontal (Average)

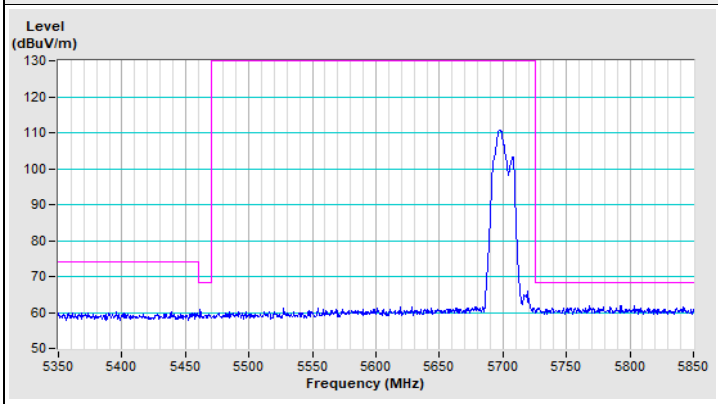


Vertical (Peak)

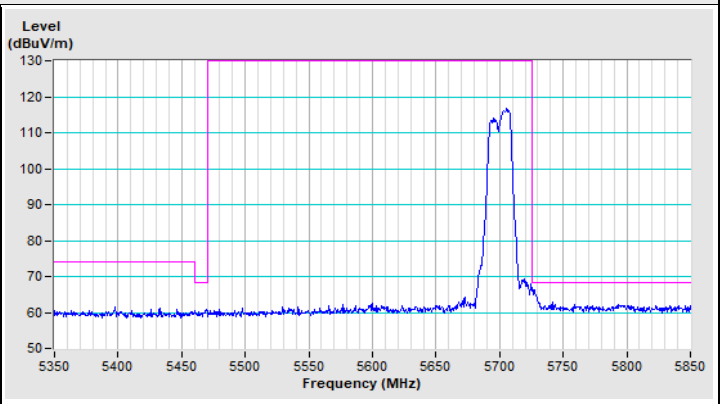


Vertical (Average)

802.11a Channel 140



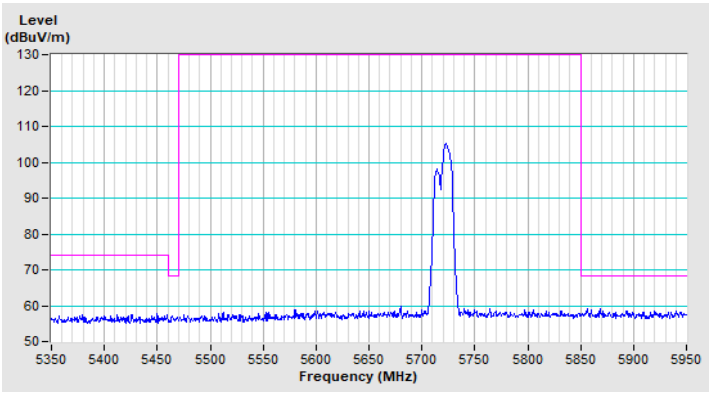
Horizontal (Peak)



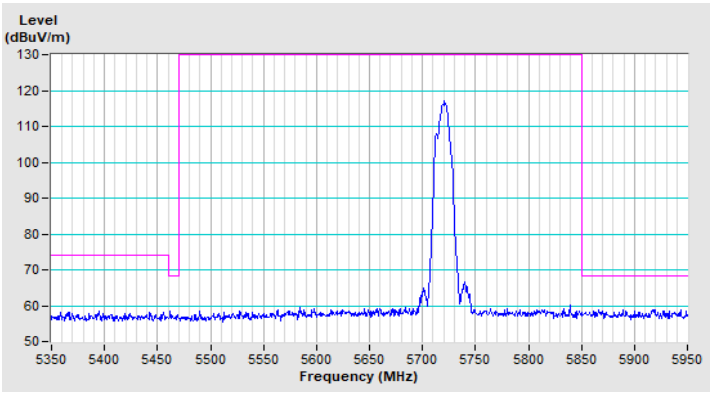
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11a Channel 144



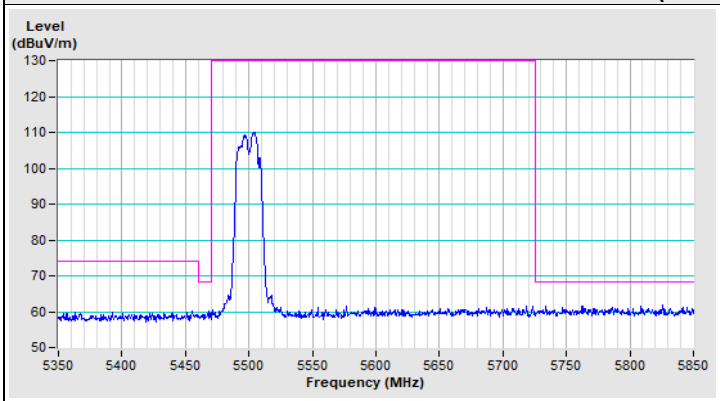
Horizontal (Peak)



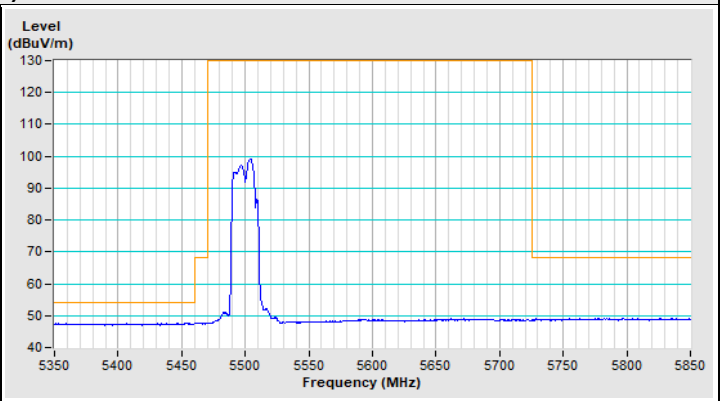
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

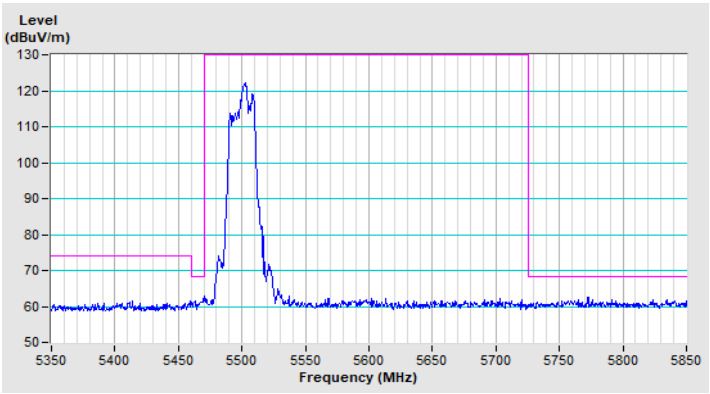
802.11ax (HE20) Channel 100



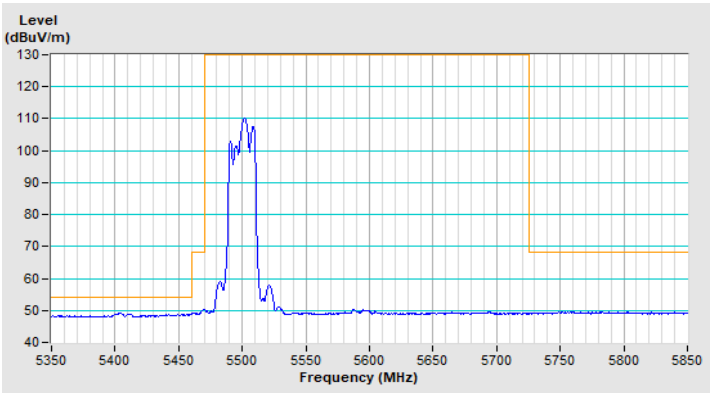
Horizontal (Peak)



Horizontal (Average)

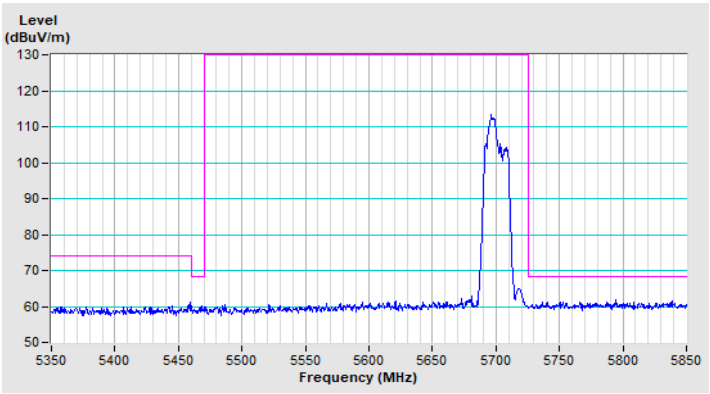


Vertical (Peak)

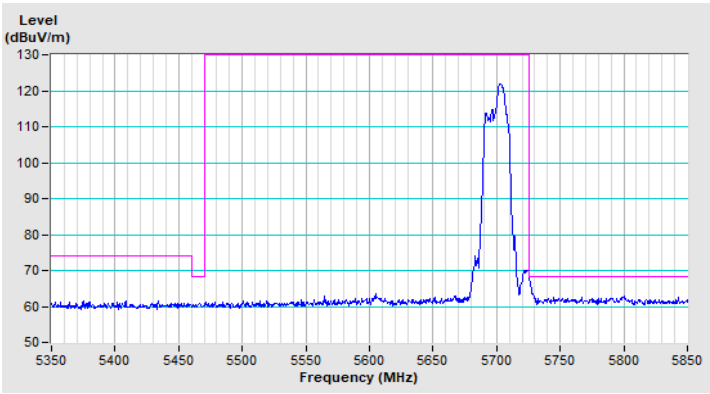


Vertical (Average)

802.11ax (HE20) Channel 140



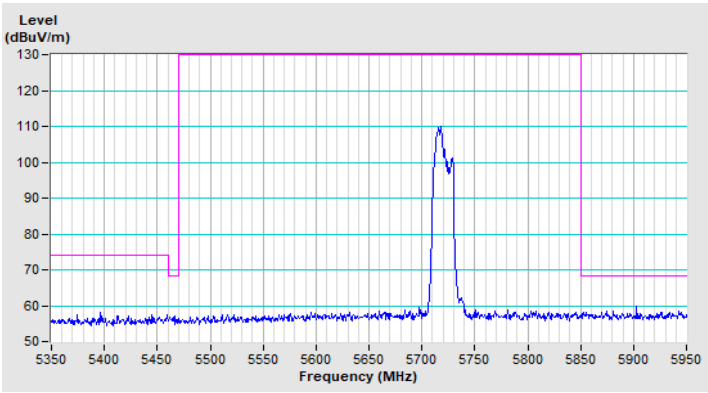
Horizontal (Peak)



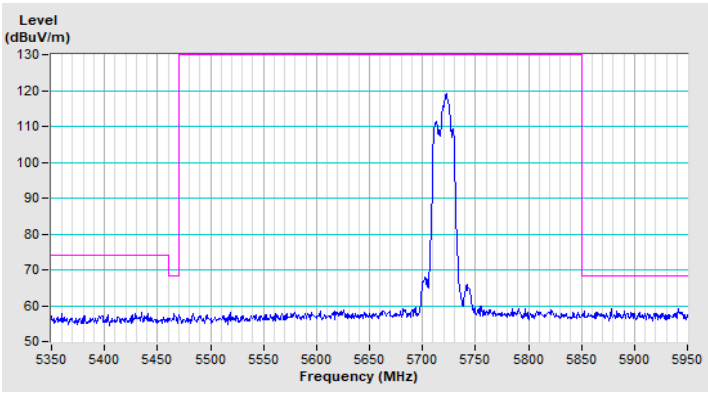
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11ax (HE20) Channel 144



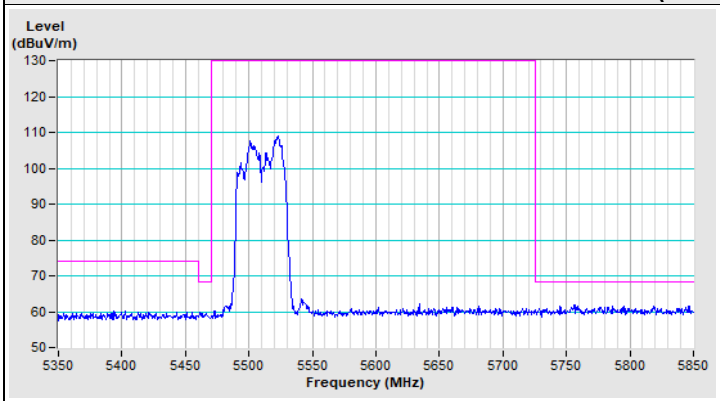
Horizontal (Peak)



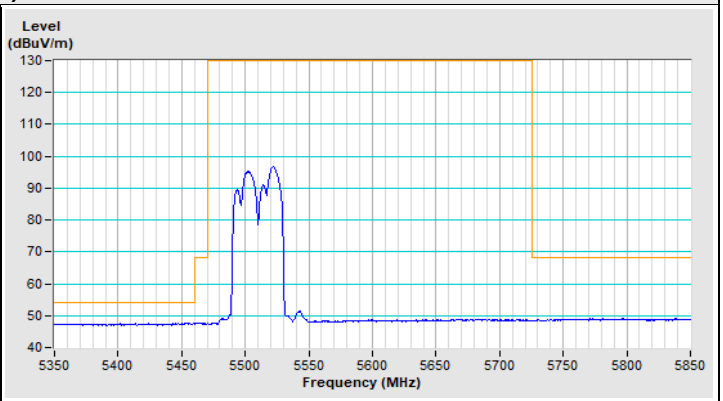
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

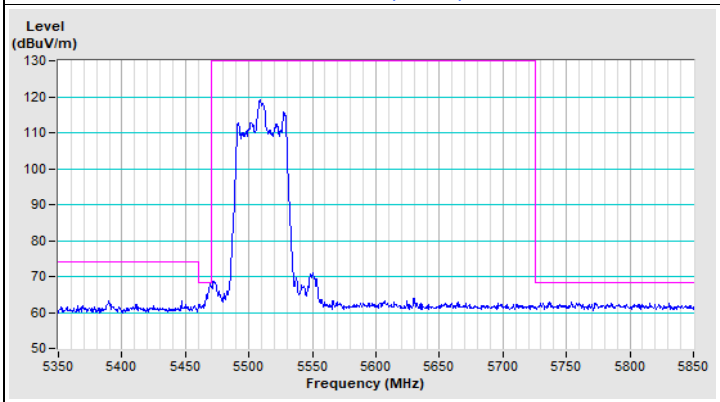
802.11ax (HE40) Channel 102



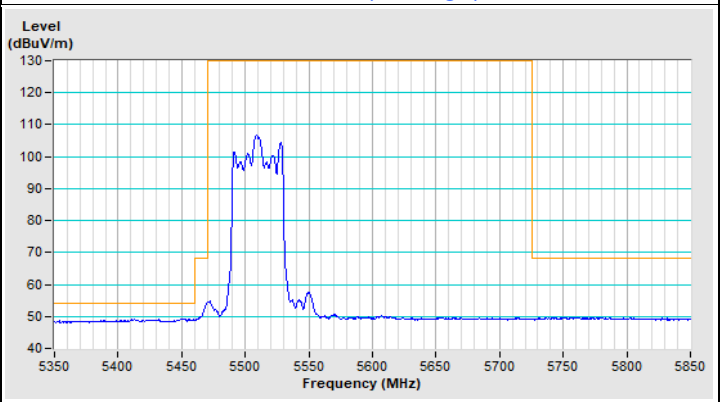
Horizontal (Peak)



Horizontal (Average)

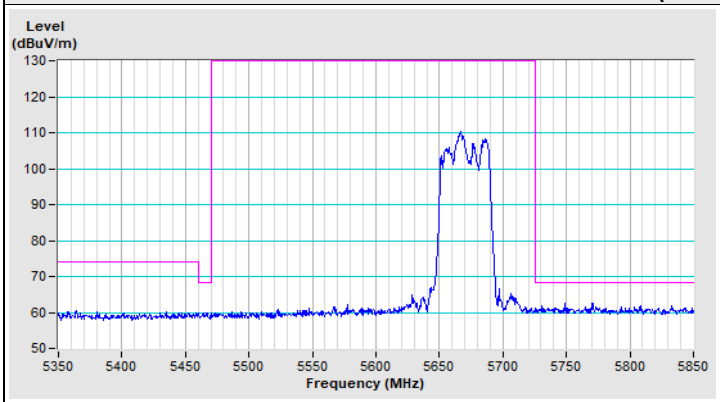


Vertical (Peak)

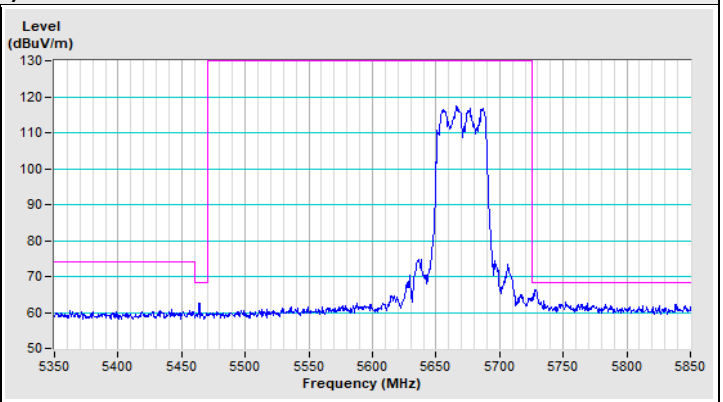


Vertical (Average)

802.11ax (HE40) Channel 134

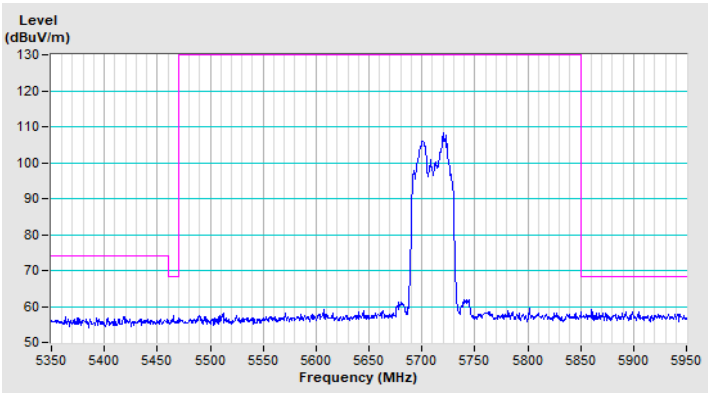


Horizontal (Peak)

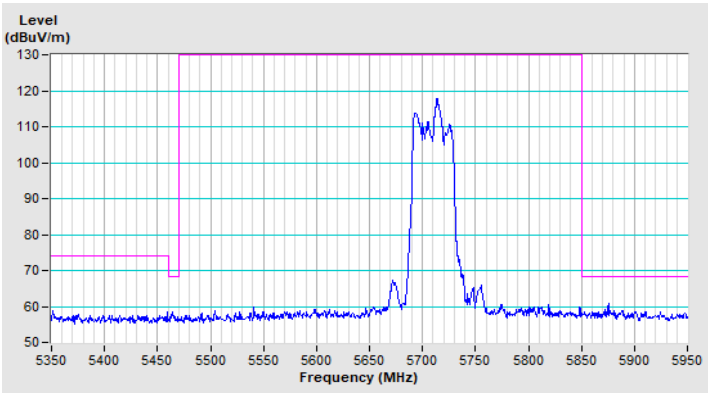


Vertical (Peak)

802.11ax (HE40) Channel 142



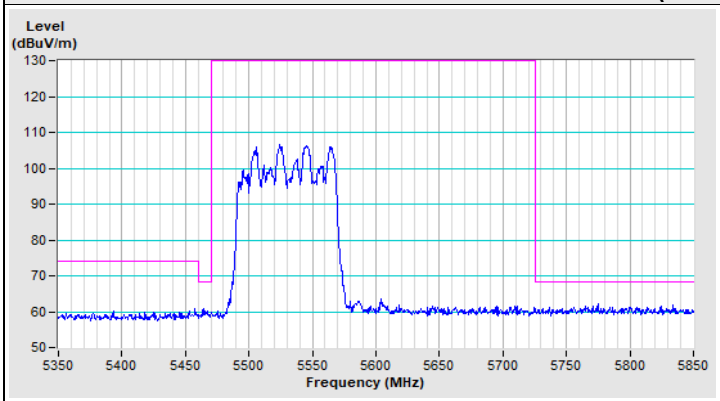
Horizontal (Peak)



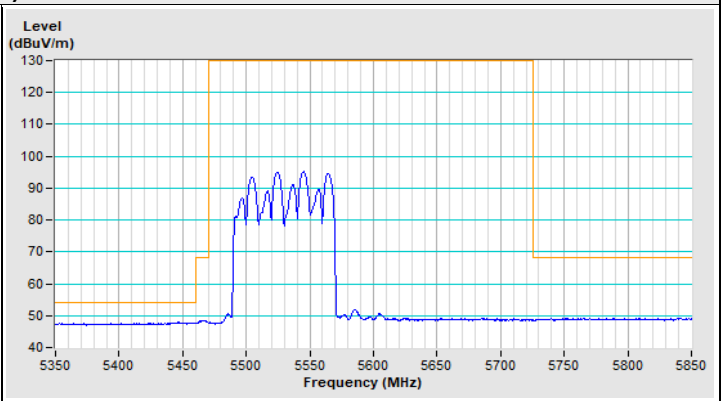
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

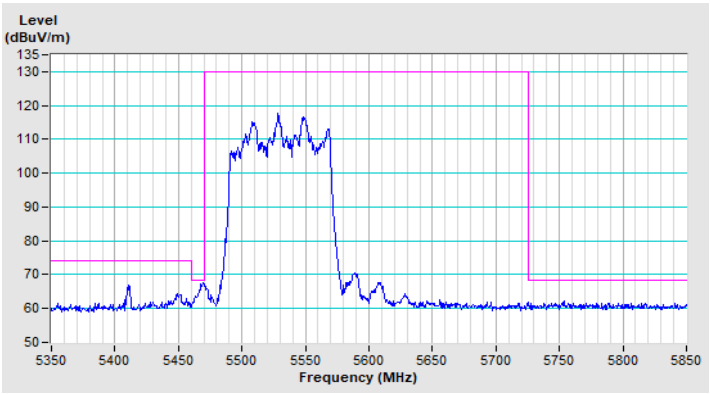
802.11ax (HE80) Channel 106



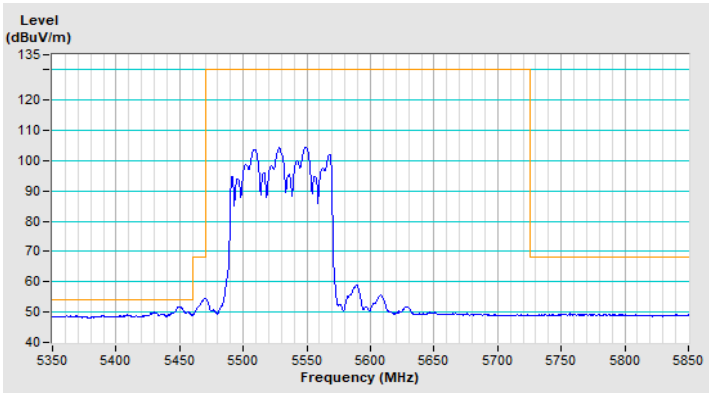
Horizontal (Peak)



Horizontal (Average)

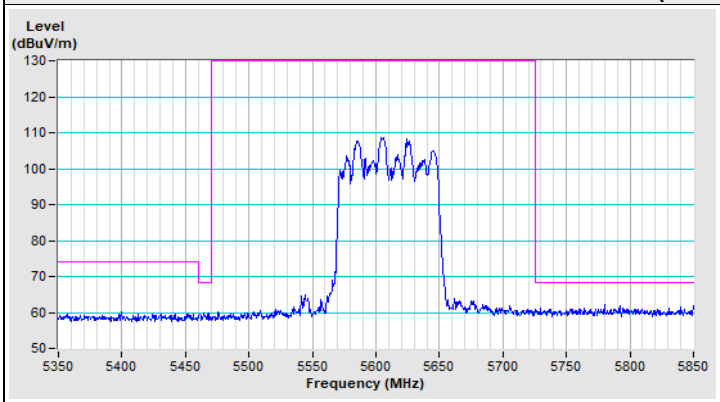


Vertical (Peak)

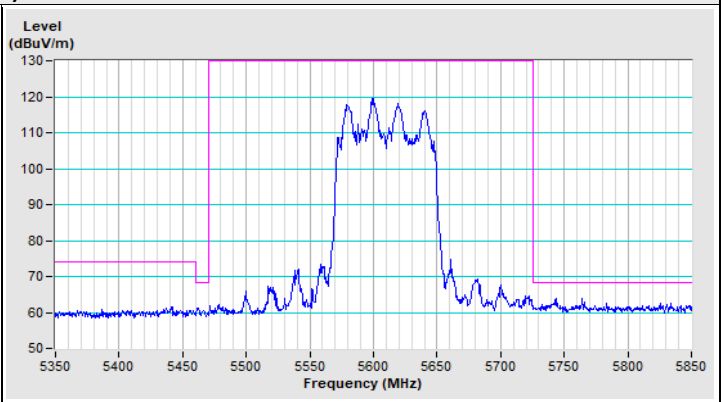


Vertical (Average)

802.11ax (HE80) Channel 122



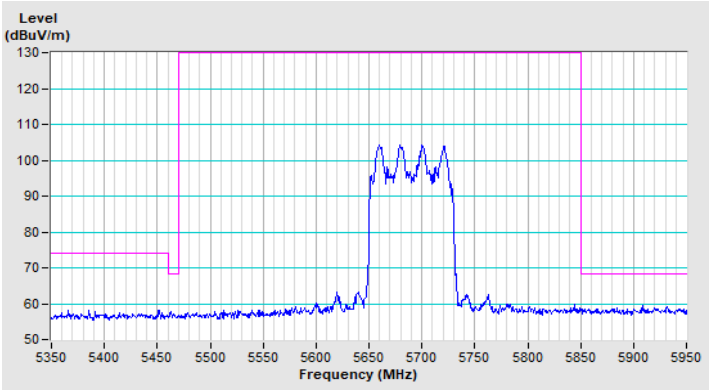
Horizontal (Peak)



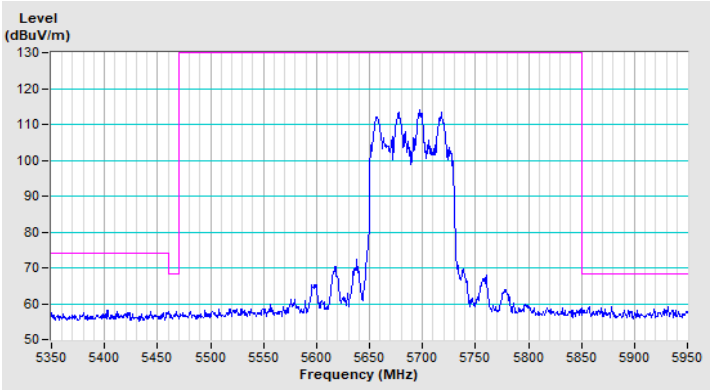
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11ax (HE80) Channel 138



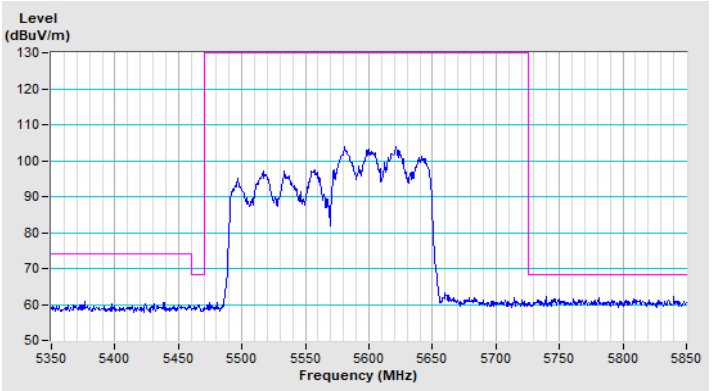
Horizontal (Peak)



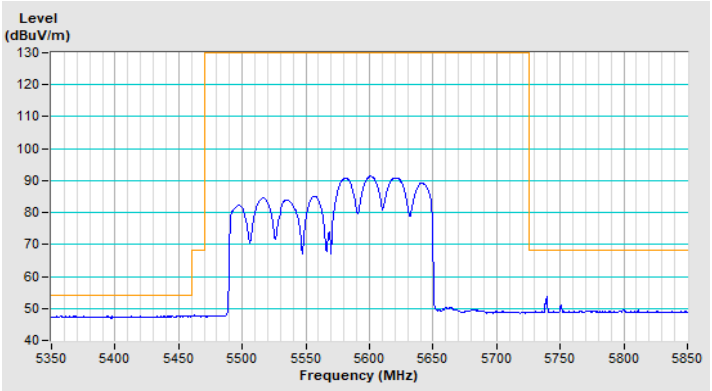
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

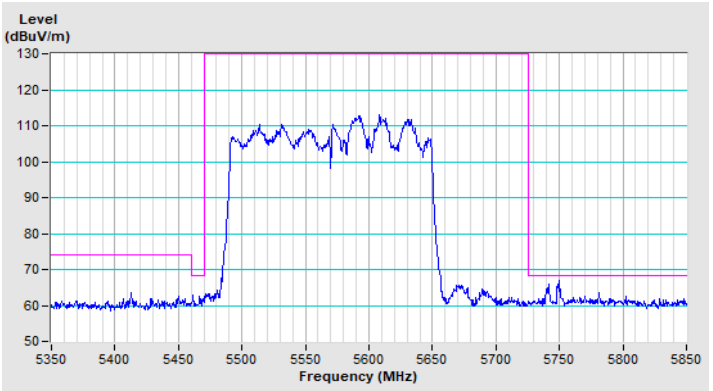
802.11ax (HE80+HE80) Channel 106+122



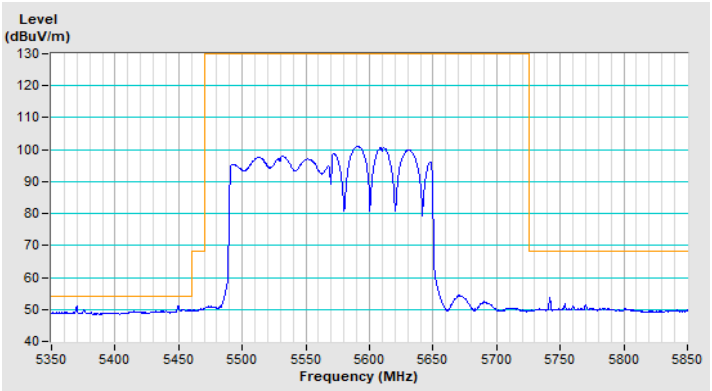
Horizontal (Peak)



Horizontal (Average)



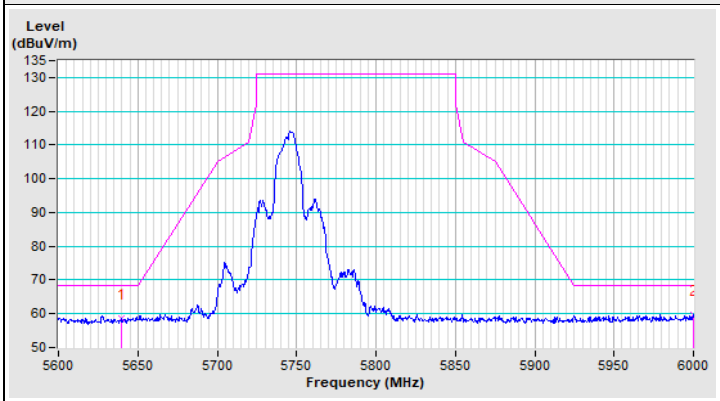
Vertical (Peak)



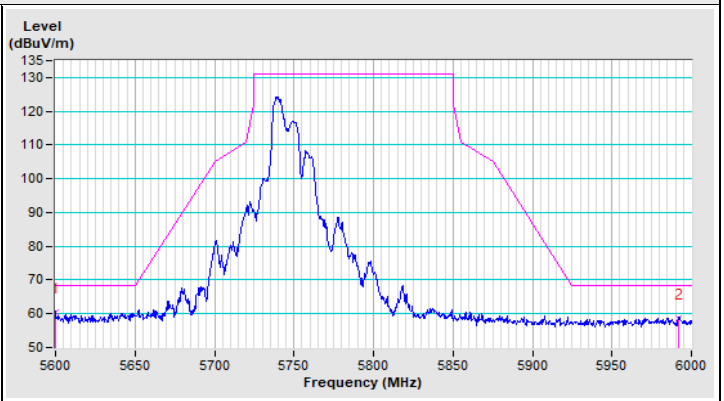
Vertical (Average)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11a Channel 149

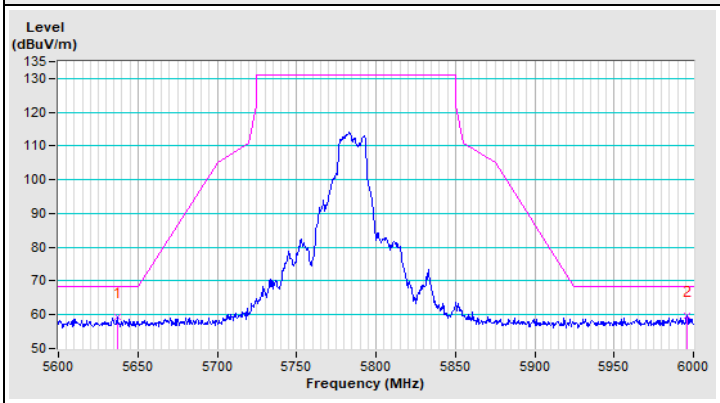


Horizontal (Peak)

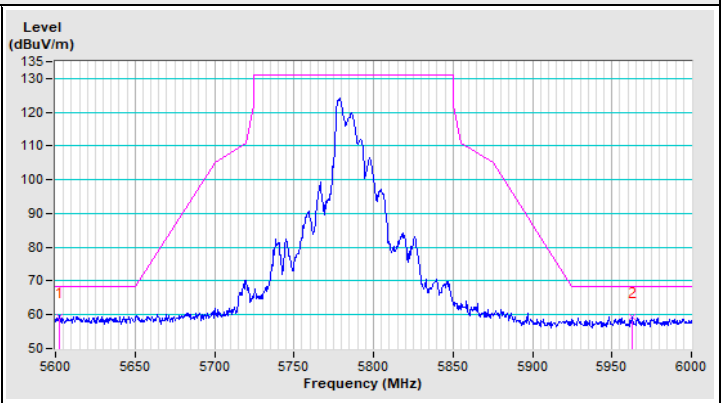


Vertical (Peak)

802.11a Channel 157

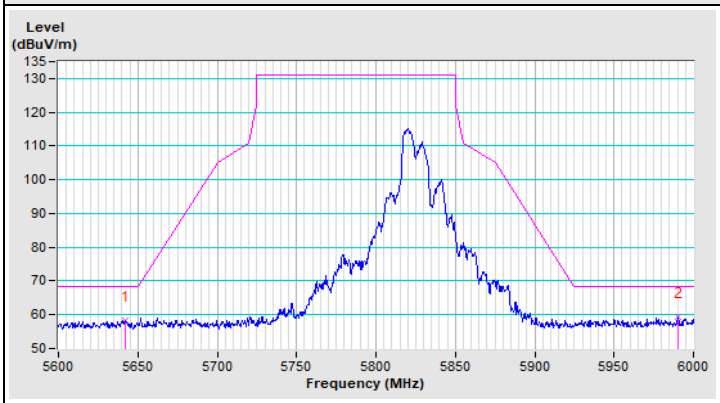


Horizontal (Peak)

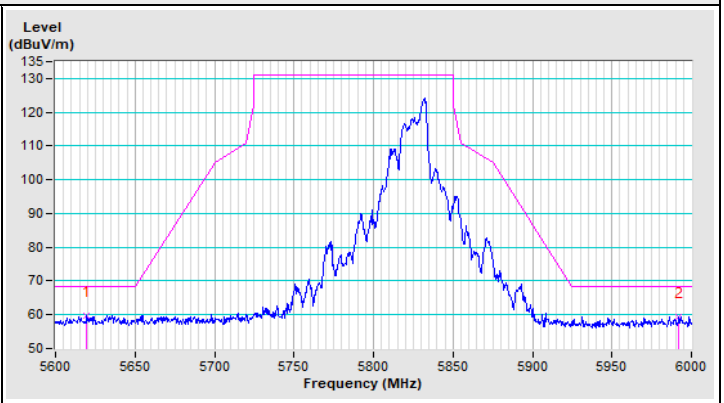


Vertical (Peak)

802.11a Channel 165



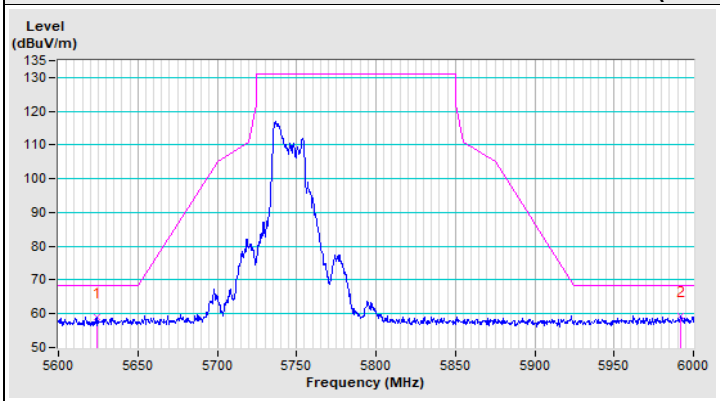
Horizontal (Peak)



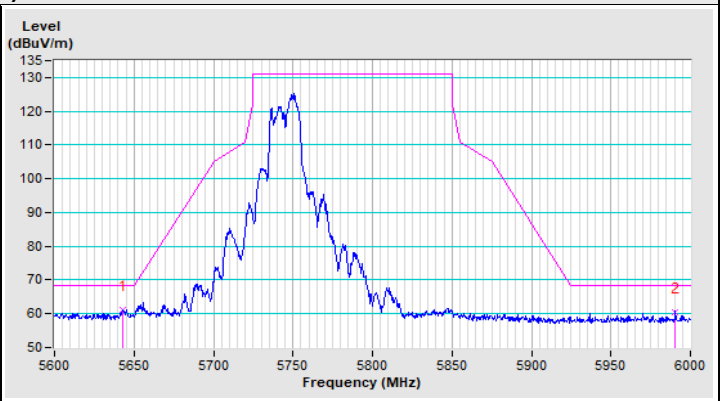
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11ax (HE20) Channel 149

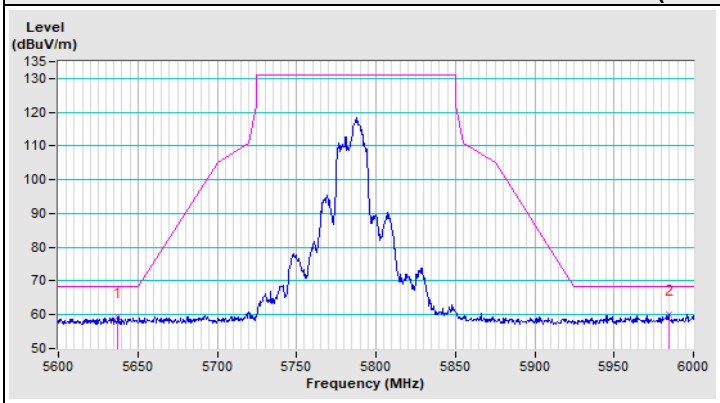


Horizontal (Peak)

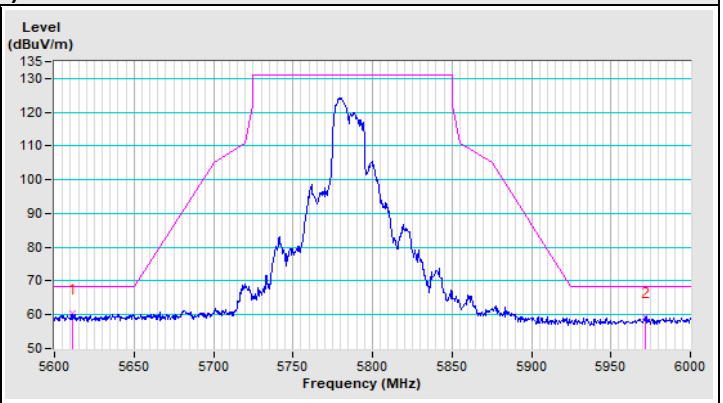


Vertical (Peak)

802.11ax (HE20) Channel 157

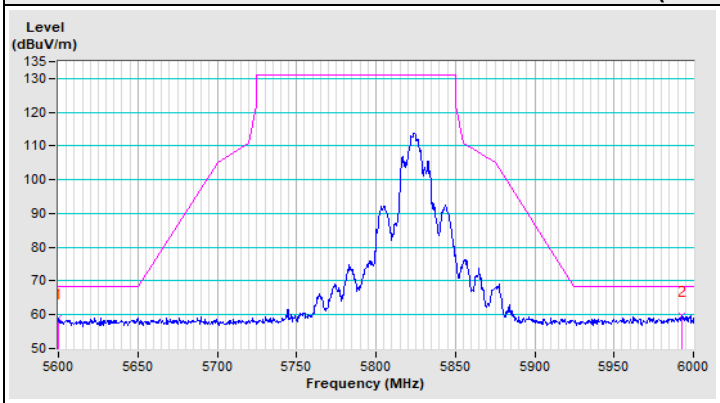


Horizontal (Peak)

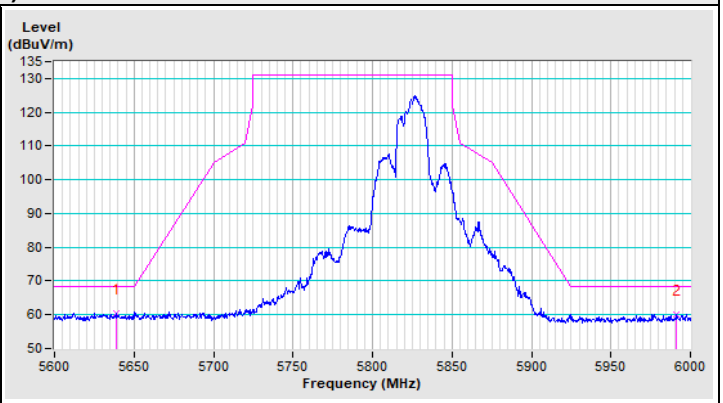


Vertical (Peak)

802.11ax (HE20) Channel 165



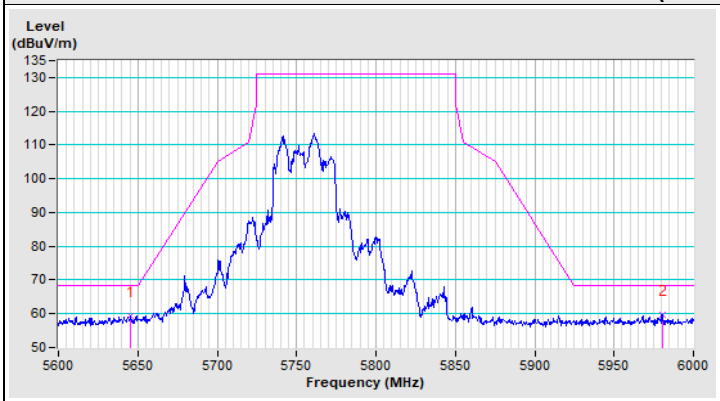
Horizontal (Peak)



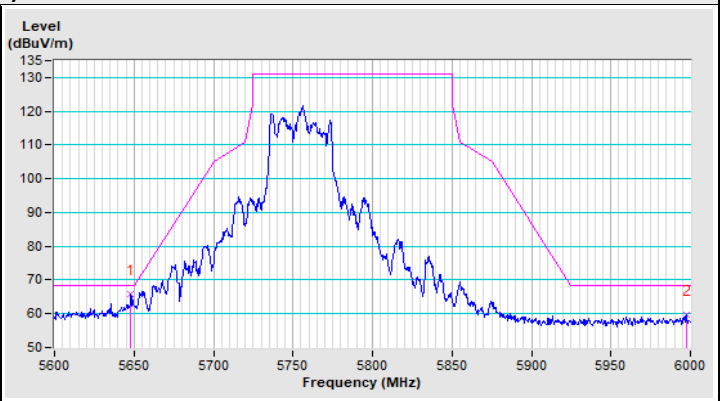
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11ax (HE40) Channel 151

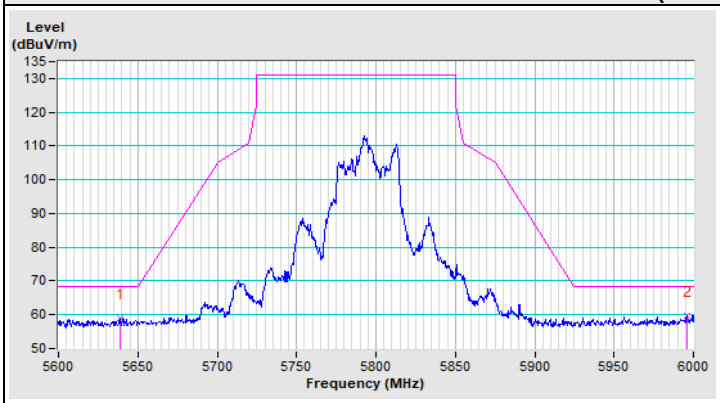


Horizontal (Peak)

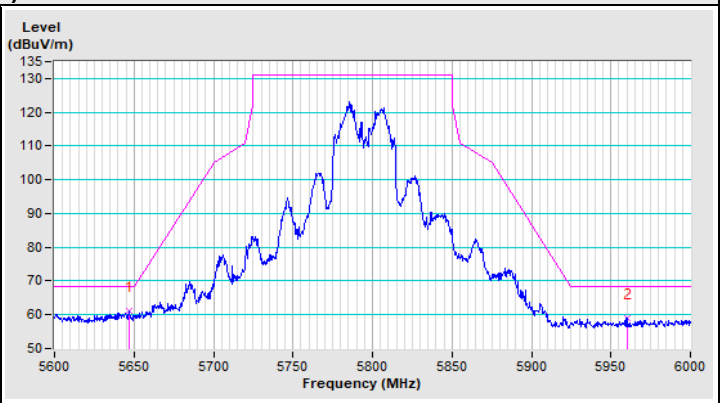


Vertical (Peak)

802.11ax (HE40) Channel 159



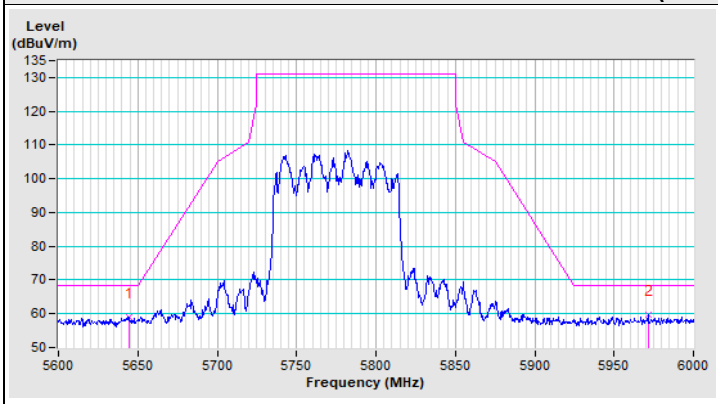
Horizontal (Peak)



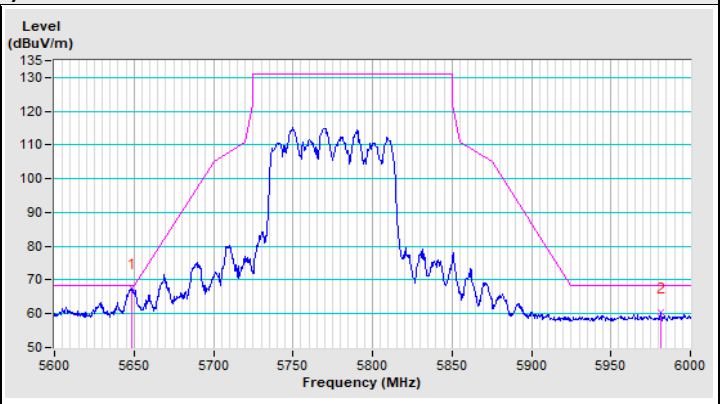
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11ax (HE80) Channel 155



Horizontal (Peak)



Vertical (Peak)

Mode B

RF Mode	802.11a	Channel	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.2 PK	74.0	-9.8	1.94 H	236	60.5	3.7
2	5150.00	51.4 AV	54.0	-2.6	1.94 H	236	47.7	3.7
3	*5180.00	121.3 PK			2.09 H	124	80.0	41.3
4	*5180.00	111.9 AV			2.09 H	124	70.6	41.3
5	#10360.00	57.3 PK	68.2	-10.9	1.42 H	59	48.2	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.9 PK	74.0	-6.1	1.50 V	174	64.2	3.7
2	5150.00	53.7 AV	54.0	-0.3	1.50 V	174	50.0	3.7
3	*5180.00	125.1 PK			1.65 V	189	83.8	41.3
4	*5180.00	115.0 AV			1.65 V	189	73.7	41.3
5	#10360.00	57.6 PK	68.2	-10.6	2.54 V	192	48.5	9.1

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 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.3 PK	74.0	-12.7	2.06 H	142	57.6	3.7
2	5150.00	48.7 AV	54.0	-5.3	2.06 H	142	45.0	3.7
3	*5200.00	122.8 PK			2.13 H	141	81.6	41.2
4	*5200.00	113.7 AV			2.13 H	141	72.5	41.2
5	5350.00	60.1 PK	74.0	-13.9	2.21 H	185	56.6	3.5
6	5350.00	46.7 AV	54.0	-7.3	2.21 H	185	43.2	3.5
7	#10400.00	57.0 PK	68.2	-11.2	2.63 H	111	47.9	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.8 PK	74.0	-12.2	1.75 V	163	58.1	3.7
2	5150.00	49.1 AV	54.0	-4.9	1.75 V	163	45.4	3.7
3	*5200.00	126.2 PK			1.89 V	189	85.0	41.2
4	*5200.00	117.0 AV			1.89 V	189	75.8	41.2
5	5350.00	59.5 PK	74.0	-14.5	1.69 V	201	56.0	3.5
6	5350.00	47.9 AV	54.0	-6.1	1.69 V	201	44.4	3.5
7	#10400.00	57.8 PK	68.2	-10.4	1.19 V	304	48.7	9.1

Remarks:

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

RF Mode	802.11a	Channel	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	122.9 PK			2.16 H	133	81.6	41.3
2	*5240.00	113.8 AV			2.16 H	133	72.5	41.3
3	5350.00	59.0 PK	74.0	-15.0	2.16 H	105	55.5	3.5
4	5350.00	47.0 AV	54.0	-7.0	2.16 H	105	43.5	3.5
5	#10480.00	57.4 PK	68.2	-10.8	1.23 H	128	48.3	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	126.3 PK			1.59 V	186	85.0	41.3
2	*5240.00	116.9 AV			1.59 V	186	75.6	41.3
3	5350.00	60.0 PK	74.0	-14.0	1.54 V	186	56.5	3.5
4	5350.00	47.4 AV	54.0	-6.6	1.54 V	186	43.9	3.5
5	#10480.00	57.1 PK	68.2	-11.1	1.36 V	261	48.0	9.1

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 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	65.2 PK	74.0	-8.8	2.04 H	155	61.5	3.7
2	5150.00	51.4 AV	54.0	-2.6	2.04 H	155	47.7	3.7
3	*5180.00	121.3 PK			2.09 H	124	80.0	41.3
4	*5180.00	109.0 AV			2.09 H	124	67.7	41.3
5	#10360.00	57.0 PK	68.2	-11.2	1.61 H	193	47.9	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	66.2 PK	74.0	-7.8	3.74 V	174	62.5	3.7
2	5150.00	53.7 AV	54.0	-0.3	3.74 V	174	50.0	3.7
3	*5180.00	125.2 PK			2.18 V	186	83.9	41.3
4	*5180.00	112.1 AV			2.18 V	186	70.8	41.3
5	#10360.00	57.6 PK	68.2	-10.6	1.56 V	314	48.5	9.1

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 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.8 PK	74.0	-11.2	2.08 H	142	59.1	3.7
2	5150.00	50.3 AV	54.0	-3.7	2.08 H	142	46.6	3.7
3	*5200.00	124.0 PK			2.13 H	141	82.8	41.2
4	*5200.00	111.4 AV			2.13 H	141	70.2	41.2
5	5350.00	60.8 PK	74.0	-13.2	2.08 H	128	57.3	3.5
6	5350.00	48.0 AV	54.0	-6.0	2.08 H	128	44.5	3.5
7	#10400.00	57.7 PK	68.2	-10.5	1.66 H	321	48.6	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.1 PK	74.0	-7.9	1.72 V	187	62.4	3.7
2	5150.00	53.4 AV	54.0	-0.6	1.72 V	187	49.7	3.7
3	*5200.00	127.2 PK			1.72 V	175	86.0	41.2
4	*5200.00	114.8 AV			1.72 V	175	73.6	41.2
5	5350.00	61.5 PK	74.0	-12.5	1.72 V	187	58.0	3.5
6	5350.00	49.9 AV	54.0	-4.1	1.72 V	187	46.4	3.5
7	#10400.00	57.3 PK	68.2	-10.9	1.46 V	328	48.2	9.1

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 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	122.9 PK			2.16 H	133	81.6	41.3
2	*5240.00	113.8 AV			2.16 H	133	72.5	41.3
3	5350.00	59.7 PK	74.0	-14.3	2.15 H	108	56.2	3.5
4	5350.00	48.7 AV	54.0	-5.3	2.15 H	108	45.2	3.5
5	#10480.00	57.7 PK	68.2	-10.5	1.18 H	293	48.6	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	125.9 PK			1.59 V	186	84.6	41.3
2	*5240.00	116.6 AV			1.59 V	186	75.3	41.3
3	5350.00	61.2 PK	74.0	-12.8	1.53 V	192	57.7	3.5
4	5350.00	49.5 AV	54.0	-4.5	1.53 V	192	46.0	3.5
5	#10480.00	56.8 PK	68.2	-11.4	2.31 V	182	47.7	9.1

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 38：5190 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.1 PK	74.0	-10.9	2.66 H	94	59.4	3.7
2	5150.00	52.2 AV	54.0	-1.8	2.66 H	94	48.5	3.7
3	*5190.00	118.1 PK			2.75 H	116	76.8	41.3
4	*5190.00	104.9 AV			2.75 H	116	63.6	41.3
5	5350.00	60.4 PK	74.0	-13.6	2.75 H	116	56.9	3.5
6	5350.00	47.9 AV	54.0	-6.1	2.75 H	116	44.4	3.5
7	#10380.00	57.4 PK	68.2	-10.8	2.55 H	314	48.2	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.4 PK	74.0	-8.6	2.48 V	192	61.7	3.7
2	**5150.00**	**53.9 AV**	**54.0**	**-0.1**	**2.48 V**	**192**	**50.2**	**3.7**
3	*5190.00	121.5 PK			2.18 V	180	80.2	41.3
4	*5190.00	108.3 AV			2.18 V	180	67.0	41.3
5	5350.00	60.6 PK	74.0	-13.4	2.18 V	180	57.1	3.5
6	5350.00	48.6 AV	54.0	-5.4	2.18 V	180	45.1	3.5
7	#10380.00	56.9 PK	68.2	-11.3	1.29 V	153	47.7	9.2

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 46：5230 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.3 PK	74.0	-7.7	2.09 H	201	62.6	3.7
2	5150.00	51.7 AV	54.0	-2.3	2.09 H	201	48.0	3.7
3	*5230.00	121.1 PK			2.16 H	137	79.8	41.3
4	*5230.00	108.0 AV			2.16 H	137	66.7	41.3
5	5350.00	65.0 PK	74.0	-9.0	2.16 H	174	61.5	3.5
6	5350.00	48.8 AV	54.0	-5.2	2.16 H	174	45.3	3.5
7	#10460.00	57.2 PK	68.2	-11.0	1.30 H	217	48.1	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.0 PK	74.0	-6.0	2.42 V	193	64.3	3.7
2	**5150.00**	**53.9 AV**	**54.0**	**-0.1**	**2.42 V**	**193**	**50.2**	**3.7**
3	*5230.00	124.0 PK			2.02 V	193	82.7	41.3
4	*5230.00	111.0 AV			2.02 V	193	69.7	41.3
5	5350.00	67.4 PK	74.0	-6.6	2.39 V	193	63.9	3.5
6	5350.00	49.6 AV	54.0	-4.4	2.39 V	193	46.1	3.5
7	#10460.00	57.4 PK	68.2	-10.8	2.69 V	124	48.3	9.1

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 (HE80)	Channel	CH 42：5210 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.4 PK	74.0	-10.6	2.09 H	118	59.7	3.7
2	5150.00	51.9 AV	54.0	-2.1	2.09 H	118	48.2	3.7
3	*5210.00	114.8 PK			2.15 H	155	73.6	41.2
4	*5210.00	101.9 AV			2.15 H	155	60.7	41.2
5	5350.00	60.8 PK	74.0	-13.2	2.15 H	150	57.3	3.5
6	5350.00	48.2 AV	54.0	-5.8	2.15 H	150	44.7	3.5
7	#10420.00	56.8 PK	68.2	-11.4	1.26 H	304	47.6	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.9 PK	74.0	-8.1	2.02 V	179	62.2	3.7
2	5150.00	52.9 AV	54.0	-1.1	2.02 V	179	49.2	3.7
3	*5210.00	118.3 PK			2.00 V	178	77.1	41.2
4	*5210.00	104.7 AV			2.00 V	178	63.5	41.2
5	5350.00	61.3 PK	74.0	-12.7	2.04 V	165	57.8	3.5
6	5350.00	48.8 AV	54.0	-5.2	2.04 V	165	45.3	3.5
7	#10420.00	57.7 PK	68.2	-10.5	3.11 V	172	48.5	9.2

Remarks:

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

RF Mode	802.11a	Channel	CH 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.2 PK	74.0	-13.8	2.24 H	106	56.5	3.7
2	5150.00	48.4 AV	54.0	-5.6	2.24 H	106	44.7	3.7
3	*5260.00	120.4 PK			2.24 H	109	79.2	41.2
4	*5260.00	110.0 AV			2.24 H	109	68.8	41.2
5	#10520.00	56.9 PK	68.2	-11.3	2.53 H	71	47.8	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.8 PK	74.0	-13.2	1.96 V	186	57.1	3.7
2	5150.00	48.4 AV	54.0	-5.6	1.96 V	186	44.7	3.7
3	*5260.00	122.8 PK			2.09 V	186	81.6	41.2
4	*5260.00	113.1 AV			2.09 V	186	71.9	41.2
5	#10520.00	57.4 PK	68.2	-10.8	1.62 V	63	48.3	9.1

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 60：5300 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5300.00	120.3 PK			2.26 H	96	79.0	41.3
2	*5300.00	110.5 AV			2.26 H	96	69.2	41.3
3	10600.00	56.8 PK	74.0	-17.2	1.15 H	195	47.6	9.2
4	10600.00	42.4 AV	54.0	-11.6	1.15 H	195	33.2	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	123.5 PK			2.49 V	187	82.2	41.3
2	*5300.00	113.8 AV			2.49 V	187	72.5	41.3
3	10600.00	57.8 PK	74.0	-16.2	1.29 V	234	48.6	9.2
4	10600.00	43.5 AV	54.0	-10.5	1.29 V	234	34.3	9.2

Remarks:

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

RF Mode	802.11a	Channel	CH 64：5320 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5320.00	118.8 PK			2.31 H	73	77.6	41.2
2	*5320.00	109.6 AV			2.31 H	73	68.4	41.2
3	5350.00	61.2 PK	74.0	-12.8	2.31 H	101	57.7	3.5
4	5350.00	48.7 AV	54.0	-5.3	2.31 H	101	45.2	3.5
5	10640.00	56.8 PK	74.0	-17.2	2.82 H	170	47.9	8.9
6	10640.00	42.6 AV	54.0	-11.4	2.82 H	170	33.7	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	123.0 PK			2.79 V	166	81.8	41.2
2	*5320.00	112.8 AV			2.79 V	166	71.6	41.2
3	5350.00	61.9 PK	74.0	-12.1	2.53 V	141	58.4	3.5
4	5350.00	49.7 AV	54.0	-4.3	2.53 V	141	46.2	3.5
5	10640.00	57.7 PK	74.0	-16.3	1.82 V	53	48.8	8.9
6	10640.00	43.4 AV	54.0	-10.6	1.82 V	53	34.5	8.9

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	60.4 PK	74.0	-13.6	2.16 H	109	56.7	3.7
2	5150.00	48.5 AV	54.0	-5.5	2.16 H	109	44.8	3.7
3	*5260.00	120.7 PK			2.24 H	109	79.5	41.2
4	*5260.00	107.7 AV			2.24 H	109	66.5	41.2
5	#10520.00	57.4 PK	68.2	-10.8	1.88 H	250	48.3	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	60.8 PK	74.0	-13.2	2.04 V	184	57.1	3.7
2	5150.00	48.6 AV	54.0	-5.4	2.04 V	184	44.9	3.7
3	*5260.00	124.1 PK			2.33 V	186	82.9	41.2
4	*5260.00	110.8 AV			2.33 V	186	69.6	41.2
5	#10520.00	56.8 PK	68.2	-11.4	1.26 V	48	47.7	9.1

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 60：5300 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5300.00	119.5 PK			2.26 H	96	78.2	41.3
2	*5300.00	106.2 AV			2.26 H	96	64.9	41.3
3	10600.00	57.3 PK	74.0	-16.7	1.54 H	182	48.1	9.2
4	10600.00	43.2 AV	54.0	-10.8	1.54 H	182	34.0	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	122.6 PK			2.49 V	187	81.3	41.3
2	*5300.00	109.4 AV			2.49 V	187	68.1	41.3
3	10600.00	56.8 PK	74.0	-17.2	1.29 V	337	47.6	9.2
4	10600.00	42.5 AV	54.0	-11.5	1.29 V	337	33.3	9.2

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 64：5320 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5320.00	120.0 PK			2.31 H	73	78.8	41.2
2	*5320.00	107.2 AV			2.31 H	73	66.0	41.2
3	5350.00	60.4 PK	74.0	-13.6	2.31 H	68	56.9	3.5
4	5350.00	48.5 AV	54.0	-5.5	2.31 H	68	45.0	3.5
5	10640.00	57.7 PK	74.0	-16.3	2.13 H	292	48.8	8.9
6	10640.00	43.5 AV	54.0	-10.5	2.13 H	292	34.6	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	122.9 PK			2.74 V	164	81.7	41.2
2	*5320.00	110.4 AV			2.74 V	164	69.2	41.2
3	5350.00	62.9 PK	74.0	-11.1	2.66 V	139	59.4	3.5
4	5350.00	49.7 AV	54.0	-4.3	2.66 V	139	46.2	3.5
5	10640.00	57.4 PK	74.0	-16.6	1.47 V	209	48.5	8.9
6	10640.00	43.1 AV	54.0	-10.9	1.47 V	209	34.2	8.9

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 54：5270 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.2 PK	74.0	-13.8	2.29 H	131	56.5	3.7
2	5150.00	48.6 AV	54.0	-5.4	2.29 H	131	44.9	3.7
3	*5270.00	117.5 PK			2.24 H	115	76.3	41.2
4	*5270.00	104.7 AV			2.24 H	115	63.5	41.2
5	5350.00	60.6 PK	74.0	-13.4	2.31 H	106	57.1	3.5
6	5350.00	48.0 AV	54.0	-6.0	2.31 H	106	44.5	3.5
7	#10540.00	58.0 PK	68.2	-10.2	1.17 H	53	48.9	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.8 PK	74.0	-13.2	2.06 V	177	57.1	3.7
2	5150.00	48.6 AV	54.0	-5.4	2.06 V	177	44.9	3.7
3	*5270.00	120.3 PK			2.02 V	192	79.1	41.2
4	*5270.00	107.9 AV			2.02 V	192	66.7	41.2
5	5350.00	63.2 PK	74.0	-10.8	1.87 V	203	59.7	3.5
6	5350.00	49.0 AV	54.0	-5.0	1.87 V	203	45.5	3.5
7	#10540.00	56.7 PK	68.2	-11.5	1.99 V	347	47.6	9.1

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 62：5310 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.2 PK	74.0	-17.8	2.26 H	73	52.5	3.7
2	5150.00	48.2 AV	54.0	-5.8	2.26 H	73	44.5	3.7
3	*5310.00	114.2 PK			2.31 H	73	73.0	41.2
4	*5310.00	101.8 AV			2.31 H	73	60.6	41.2
5	5350.00	62.1 PK	74.0	-11.9	2.46 H	59	58.6	3.5
6	5350.00	51.1 AV	54.0	-2.9	2.46 H	59	47.6	3.5
7	10620.00	57.3 PK	74.0	-16.7	1.25 H	173	48.3	9.0
8	10620.00	43.0 AV	54.0	-11.0	1.25 H	173	34.0	9.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.3 PK	74.0	-13.7	2.97 V	189	56.6	3.7
2	5150.00	48.2 AV	54.0	-5.8	2.97 V	189	44.5	3.7
3	*5310.00	117.7 PK			2.97 V	178	76.5	41.2
4	*5310.00	104.7 AV			2.97 V	178	63.5	41.2
5	5350.00	67.6 PK	74.0	-6.4	2.97 V	195	64.1	3.5
6	5350.00	53.6 AV	54.0	-0.4	2.97 V	195	50.1	3.5
7	10620.00	57.5 PK	74.0	-16.5	1.66 V	356	48.5	9.0
8	10620.00	43.2 AV	54.0	-10.8	1.66 V	356	34.2	9.0

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 58：5290 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.3 PK	74.0	-13.7	2.23 H	91	56.6	3.7
2	5150.00	48.2 AV	54.0	-5.8	2.23 H	91	44.5	3.7
3	*5290.00	109.8 PK			2.26 H	86	68.5	41.3
4	*5290.00	97.5 AV			2.26 H	86	56.2	41.3
5	5350.00	61.3 PK	74.0	-12.7	1.96 H	92	57.8	3.5
6	5350.00	50.5 AV	54.0	-3.5	1.96 H	92	47.0	3.5
7	#10580.00	57.8 PK	68.2	-10.4	2.32 H	174	48.7	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.2 PK	74.0	-12.8	1.76 V	184	57.5	3.7
2	5150.00	48.1 AV	54.0	-5.9	1.76 V	184	44.4	3.7
3	*5290.00	112.7 PK			1.98 V	191	71.4	41.3
4	*5290.00	100.6 AV			1.98 V	191	59.3	41.3
5	5350.00	65.9 PK	74.0	-8.1	1.99 V	191	62.4	3.5
6	5350.00	53.8 AV	54.0	-0.2	1.99 V	191	50.3	3.5
7	#10580.00	57.7 PK	68.2	-10.5	1.22 V	274	48.6	9.1

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 (HE80+HE80)	**Channel**	CH 42：5210 MHz CH 58：5290 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	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	61.6 PK	74.0	-12.4	1.39 H	321	57.9	3.7
2	5150.00	49.2 AV	54.0	-4.8	1.39 H	321	45.5	3.7
3	*5210.00	108.3 PK			1.42 H	345	67.1	41.2
4	*5210.00	95.9 AV			1.42 H	345	54.7	41.2
5	*5290.00	104.6 PK			1.42 H	345	63.3	41.3
6	*5290.00	92.1 AV			1.42 H	345	50.8	41.3
7	5350.00	62.4 PK	74.0	-11.6	1.56 H	329	58.9	3.5
8	5350.00	49.6 AV	54.0	-4.4	1.56 H	329	46.1	3.5
9	#10420.00	57.6 PK	68.2	-10.6	1.31 H	275	48.4	9.2
10	#10580.00	57.7 PK	68.2	-10.5	1.26 H	344	48.6	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	62.5 PK	74.0	-11.5	1.77 V	26	58.8	3.7
2	5150.00	49.8 AV	54.0	-4.2	1.77 V	26	46.1	3.7
3	*5210.00	111.8 PK			1.77 V	0	70.6	41.2
4	*5210.00	99.3 AV			1.77 V	0	58.1	41.2
5	*5290.00	111.4 PK			1.77 V	0	70.1	41.3
6	*5290.00	99.0 AV			1.77 V	0	57.7	41.3
7	5350.00	66.2 PK	74.0	-7.8	1.77 V	18	62.7	3.5
8	5350.00	52.8 AV	54.0	-1.2	1.77 V	18	49.3	3.5
9	#10420.00	58.2 PK	68.2	-10.0	2.65 V	52	49.0	9.2
10	#10580.00	58.4 PK	68.2	-9.8	1.36 V	173	49.3	9.1

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 100：5500 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	61.5 PK	74.0	-12.5	2.29 H	101	57.8	3.7
2	5460.00	49.1 AV	54.0	-4.9	2.29 H	101	45.4	3.7
3	#5470.00	60.4 PK	68.2	-7.8	2.51 H	49	56.7	3.7
4	*5500.00	116.3 PK			2.36 H	63	75.0	41.3
5	*5500.00	106.6 AV			2.36 H	63	65.3	41.3
6	11000.00	58.6 PK	74.0	-15.4	2.24 H	206	49.1	9.5
7	11000.00	45.4 AV	54.0	-8.6	2.24 H	206	35.9	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.3 PK	74.0	-12.7	2.79 V	165	57.6	3.7
2	5460.00	50.0 AV	54.0	-4.0	2.79 V	165	46.3	3.7
3	#5470.00	60.2 PK	68.2	-8.0	2.87 V	201	56.5	3.7
4	*5500.00	119.4 PK			2.87 V	177	78.1	41.3
5	*5500.00	109.8 AV			2.87 V	177	68.5	41.3
6	11000.00	59.0 PK	74.0	-15.0	2.41 V	236	49.5	9.5
7	11000.00	46.4 AV	54.0	-7.6	2.41 V	236	36.9	9.5

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	802.11a	Channel	CH 116：5580 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5580.00	118.7 PK			2.55 H	72	76.7	42.0
2	*5580.00	108.9 AV			2.55 H	72	66.9	42.0
3	11160.00	58.3 PK	74.0	-15.7	1.66 H	340	49.1	9.2
4	11160.00	45.1 AV	54.0	-8.9	1.66 H	340	35.9	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	121.9 PK			1.03 V	185	79.9	42.0
2	*5580.00	112.1 AV			1.03 V	185	70.1	42.0
3	11160.00	58.1 PK	74.0	-15.9	1.82 V	37	48.9	9.2
4	11160.00	44.9 AV	54.0	-9.1	1.82 V	37	35.7	9.2

Remarks:

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

RF Mode	802.11a	Channel	CH 140：5700 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5700.00	117.2 PK			2.53 H	59	74.6	42.6
2	*5700.00	107.7 AV			2.53 H	59	65.1	42.6
3	#5725.00	65.2 PK	68.2	-3.0	2.26 H	42	60.3	4.9
4	11400.00	58.4 PK	74.0	-15.6	2.16 H	124	48.9	9.5
5	11400.00	45.1 AV	54.0	-8.9	2.16 H	124	35.6	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	120.4 PK			1.00 V	189	77.8	42.6
2	*5700.00	110.7 AV			1.00 V	189	68.1	42.6
3	#5725.00	67.4 PK	68.2	-0.8	2.50 V	189	62.5	4.9
4	11400.00	58.9 PK	74.0	-15.1	1.51 V	20	49.4	9.5
5	11400.00	45.7 AV	54.0	-8.3	1.51 V	20	36.2	9.5

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	802.11a	Channel	CH 144：5720 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	60.5 PK	74.0	-13.5	2.37 H	58	56.8	3.7
2	5460.00	48.2 AV	54.0	-5.8	2.37 H	58	44.5	3.7
3	#5470.00	59.7 PK	68.2	-8.5	2.37 H	58	56.0	3.7
4	*5720.00	118.8 PK			2.37 H	58	76.1	42.7
5	*5720.00	109.1 AV			2.37 H	58	66.4	42.7
6	11440.00	58.2 PK	74.0	-15.8	1.72 H	336	48.8	9.4
7	11440.00	44.9 AV	54.0	-9.1	1.72 H	336	35.5	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.0 PK	74.0	-13.0	1.12 V	190	57.3	3.7
2	5460.00	48.4 AV	54.0	-5.6	1.12 V	190	44.7	3.7
3	#5470.00	60.6 PK	68.2	-7.6	1.12 V	190	56.9	3.7
4	*5720.00	122.0 PK			1.12 V	190	79.3	42.7
5	*5720.00	112.4 AV			1.12 V	190	69.7	42.7
6	11440.00	58.7 PK	74.0	-15.3	2.26 V	185	49.3	9.4
7	11440.00	45.5 AV	54.0	-8.5	2.26 V	185	36.1	9.4

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 100：5500 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	61.9 PK	74.0	-12.1	2.26 H	59	58.2	3.7
2	5460.00	49.2 AV	54.0	-4.8	2.26 H	59	45.5	3.7
3	#5470.00	61.3 PK	68.2	-6.9	2.44 H	95	57.6	3.7
4	*5500.00	117.2 PK			2.36 H	63	75.9	41.3
5	*5500.00	106.3 AV			2.36 H	63	65.0	41.3
6	11000.00	58.3 PK	74.0	-15.7	2.41 H	264	48.8	9.5
7	11000.00	45.1 AV	54.0	-8.9	2.41 H	264	35.6	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.0 PK	74.0	-11.0	2.51 V	184	59.3	3.7
2	5460.00	50.1 AV	54.0	-3.9	2.51 V	184	46.4	3.7
3	#5470.00	62.2 PK	68.2	-6.0	2.76 V	182	58.5	3.7
4	*5500.00	122.6 PK			2.87 V	177	81.3	41.3
5	*5500.00	109.8 AV			2.87 V	177	68.5	41.3
6	11000.00	58.8 PK	74.0	-15.2	1.52 V	102	49.3	9.5
7	11000.00	45.6 AV	54.0	-8.4	1.52 V	102	36.1	9.5

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)	Channel	CH 116：5580 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5580.00	118.7 PK			2.55 H	72	76.7	42.0
2	*5580.00	106.3 AV			2.55 H	72	64.3	42.0
3	11160.00	58.3 PK	74.0	-15.7	2.16 H	184	49.1	9.2
4	11160.00	45.0 AV	54.0	-9.0	2.16 H	184	35.8	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	121.9 PK			1.03 V	185	79.9	42.0
2	*5580.00	109.4 AV			1.03 V	185	67.4	42.0
3	11160.00	58.7 PK	74.0	-15.3	1.96 V	253	49.5	9.2
4	11160.00	45.3 AV	54.0	-8.7	1.96 V	253	36.1	9.2

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 140：5700 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	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 67% RH
Tested By	Karl Lee		

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	*5700.00	119.7 PK			2.53 H	59	77.1	42.6
2	*5700.00	106.7 AV			2.53 H	59	64.1	42.6
3	#5725.00	63.9 PK	68.2	-4.3	2.44 H	83	59.0	4.9
4	11400.00	58.1 PK	74.0	-15.9	1.56 H	311	48.6	9.5
5	11400.00	45.0 AV	54.0	-9.0	1.56 H	311	35.5	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5700.00	122.9 PK			1.09 V	186	80.3	42.6
2	*5700.00	109.8 AV			1.09 V	186	67.2	42.6
3	#5725.00	66.9 PK	68.2	-1.3	1.12 V	194	62.0	4.9
4	11400.00	58.9 PK	74.0	-15.1	1.49 V	141	49.4	9.5
5	11400.00	45.7 AV	54.0	-8.3	1.49 V	141	36.2	9.5

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)	Channel	CH 144：5720 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	60.9 PK	74.0	-13.1	2.37 H	58	57.2	3.7
2	5460.00	48.0 AV	54.0	-6.0	2.37 H	58	44.3	3.7
3	#5470.00	59.4 PK	68.2	-8.8	2.37 H	58	55.7	3.7
4	*5720.00	121.7 PK			2.37 H	58	79.0	42.7
5	*5720.00	108.5 AV			2.37 H	58	65.8	42.7
6	11440.00	58.4 PK	74.0	-15.6	2.26 H	175	49.0	9.4
7	11440.00	45.3 AV	54.0	-8.7	2.26 H	175	35.9	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.9 PK	74.0	-12.1	1.12 V	187	58.2	3.7
2	5460.00	48.4 AV	54.0	-5.6	1.12 V	187	44.7	3.7
3	#5470.00	60.8 PK	68.2	-7.4	1.12 V	187	57.1	3.7
4	*5720.00	125.9 PK			1.12 V	187	83.2	42.7
5	*5720.00	113.2 AV			1.12 V	187	70.5	42.7
6	11440.00	57.9 PK	74.0	-16.1	1.12 V	341	48.5	9.4
7	11440.00	44.6 AV	54.0	-9.4	1.12 V	341	35.2	9.4

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 102：5510 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	62.2 PK	74.0	-11.8	2.29 H	61	58.5	3.7
2	5460.00	48.9 AV	54.0	-5.1	2.29 H	61	45.2	3.7
3	#5470.00	62.2 PK	68.2	-6.0	2.41 H	84	58.5	3.7
4	*5510.00	116.0 PK			2.40 H	63	74.7	41.3
5	*5510.00	103.3 AV			2.40 H	63	62.0	41.3
6	#5725.00	62.6 PK	68.2	-5.6	2.40 H	63	57.7	4.9
7	11020.00	58.1 PK	74.0	-15.9	1.47 H	311	48.6	9.5
8	11020.00	44.8 AV	54.0	-9.2	1.47 H	311	35.3	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.3 PK	74.0	-10.7	1.82 V	193	59.6	3.7
2	5460.00	49.6 AV	54.0	-4.4	1.82 V	193	45.9	3.7
3	#5470.00	67.7 PK	68.2	-0.5	1.97 V	195	64.0	3.7
4	*5510.00	119.2 PK			1.81 V	195	77.9	41.3
5	*5510.00	106.3 AV			1.81 V	195	65.0	41.3
6	#5725.00	62.4 PK	68.2	-5.8	1.81 V	195	57.5	4.9
7	11020.00	58.7 PK	74.0	-15.3	1.62 V	310	49.2	9.5
8	11020.00	45.5 AV	54.0	-8.5	1.62 V	310	36.0	9.5

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 (HE40)	Channel	CH 110：5550 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	*5550.00	116.5 PK			2.63 H	65	74.8	41.7
2	*5550.00	104.6 AV			2.63 H	65	62.9	41.7
3	11100.00	58.8 PK	74.0	-15.2	1.12 H	158	49.4	9.4
4	11100.00	45.6 AV	54.0	-8.4	1.12 H	158	36.2	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	119.6 PK			1.00 V	185	77.9	41.7
2	*5550.00	107.7 AV			1.00 V	185	66.0	41.7
3	11100.00	58.5 PK	74.0	-15.5	1.98 V	125	49.1	9.4
4	11100.00	45.3 AV	54.0	-8.7	1.98 V	125	35.9	9.4

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.

RF Mode	802.11ax (HE40)	Channel	CH 134：5670 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	60.7 PK	74.0	-13.3	2.56 H	101	57.0	3.7
2	5460.00	48.4 AV	54.0	-5.6	2.56 H	101	44.7	3.7
3	#5470.00	60.1 PK	68.2	-8.1	2.56 H	101	56.4	3.7
4	*5670.00	118.1 PK			2.56 H	101	75.6	42.5
5	*5670.00	105.6 AV			2.56 H	101	63.1	42.5
6	#5725.00	65.0 PK	68.2	-3.2	2.33 H	152	60.1	4.9
7	11340.00	58.1 PK	74.0	-15.9	2.13 H	184	48.8	9.3
8	11340.00	45.9 AV	54.0	-8.1	2.13 H	184	36.6	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.9 PK	74.0	-12.1	1.00 V	185	58.2	3.7
2	5460.00	48.4 AV	54.0	-5.6	1.00 V	185	44.7	3.7
3	#5470.00	60.6 PK	68.2	-7.6	1.00 V	185	56.9	3.7
4	*5670.00	121.6 PK			1.00 V	185	79.1	42.5
5	*5670.00	108.7 AV			1.00 V	185	66.2	42.5
6	#5725.00	66.2 PK	68.2	-2.0	1.09 V	182	61.3	4.9
7	11340.00	58.6 PK	74.0	-15.4	1.88 V	148	49.3	9.3
8	11340.00	45.5 AV	54.0	-8.5	1.88 V	148	36.2	9.3

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 142：5710 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	61.5 PK	74.0	-12.5	2.37 H	61	57.8	3.7
2	5460.00	48.5 AV	54.0	-5.5	2.37 H	61	44.8	3.7
3	#5470.00	60.9 PK	68.2	-7.3	2.37 H	61	57.2	3.7
4	*5710.00	118.3 PK			2.37 H	61	75.6	42.7
5	*5710.00	106.2 AV			2.37 H	61	63.5	42.7
6	11420.00	58.9 PK	74.0	-15.1	1.99 H	305	49.4	9.5
7	11420.00	45.7 AV	54.0	-8.3	1.99 H	305	36.2	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.1 PK	74.0	-12.9	1.00 V	186	57.4	3.7
2	5460.00	48.3 AV	54.0	-5.7	1.00 V	186	44.6	3.7
3	#5470.00	60.3 PK	68.2	-7.9	1.00 V	186	56.6	3.7
4	*5710.00	122.6 PK			1.00 V	186	79.9	42.7
5	*5710.00	109.2 AV			1.00 V	186	66.5	42.7
6	11420.00	58.4 PK	74.0	-15.6	2.11 V	182	48.9	9.5
7	11420.00	45.2 AV	54.0	-8.8	2.11 V	182	35.7	9.5

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 (HE80)	Channel	CH 106：5530 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	61.6 PK	74.0	-12.4	2.06 H	75	57.9	3.7
2	5460.00	48.8 AV	54.0	-5.2	2.06 H	75	45.1	3.7
3	#5470.00	63.3 PK	68.2	-4.9	1.94 H	56	59.6	3.7
4	*5530.00	114.5 PK			2.28 H	59	72.9	41.6
5	*5530.00	101.5 AV			2.28 H	59	59.9	41.6
6	#5725.00	61.7 PK	68.2	-6.5	2.28 H	59	56.8	4.9
7	11060.00	58.9 PK	74.0	-15.1	1.47 H	259	49.5	9.4
8	11060.00	45.6 AV	54.0	-8.4	1.47 H	259	36.2	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	66.1 PK	74.0	-7.9	1.47 V	196	62.4	3.7
2	5460.00	52.0 AV	54.0	-2.0	1.47 V	196	48.3	3.7
3	#5470.00	65.0 PK	68.2	-3.2	1.61 V	196	61.3	3.7
4	*5530.00	117.8 PK			1.63 V	196	76.2	41.6
5	*5530.00	104.8 AV			1.63 V	196	63.2	41.6
6	#5825.00	63.2 PK	68.2	-5.0	1.63 V	196	58.0	5.2
7	11060.00	58.7 PK	74.0	-15.3	2.88 V	341	49.3	9.4
8	11060.00	45.5 AV	54.0	-8.5	2.88 V	341	36.1	9.4

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 122：5610 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	61.4 PK	74.0	-12.6	2.49 H	88	57.7	3.7
2	5460.00	48.5 AV	54.0	-5.5	2.49 H	88	44.8	3.7
3	#5470.00	60.2 PK	68.2	-8.0	2.49 H	88	56.5	3.7
4	*5610.00	116.5 PK			2.49 H	88	74.3	42.2
5	*5610.00	103.5 AV			2.49 H	88	61.3	42.2
6	#5825.00	64.6 PK	68.2	-3.6	2.20 H	121	59.4	5.2
7	11220.00	57.7 PK	74.0	-16.3	1.33 H	129	48.8	8.9
8	11220.00	44.6 AV	54.0	-9.4	1.33 H	129	35.7	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.2 PK	74.0	-12.8	1.72 V	192	57.5	3.7
2	5460.00	48.7 AV	54.0	-5.3	1.72 V	192	45.0	3.7
3	#5470.00	61.8 PK	68.2	-6.4	1.68 V	192	58.1	3.7
4	*5610.00	120.5 PK			1.68 V	192	78.3	42.2
5	*5610.00	106.6 AV			1.68 V	192	64.4	42.2
6	#5725.00	65.4 PK	68.2	-2.8	1.59 V	192	60.5	4.9
7	11220.00	57.5 PK	74.0	-16.5	2.60 V	115	48.6	8.9
8	11220.00	44.2 AV	54.0	-9.8	2.60 V	115	35.3	8.9

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 138：5690 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	61.2 PK	74.0	-12.8	2.37 H	46	57.5	3.7
2	5460.00	48.4 AV	54.0	-5.6	2.37 H	46	44.7	3.7
3	#5470.00	60.2 PK	68.2	-8.0	2.37 H	46	56.5	3.7
4	*5690.00	114.8 PK			2.37 H	46	72.2	42.6
5	*5690.00	102.8 AV			2.37 H	46	60.2	42.6
6	11380.00	58.9 PK	74.0	-15.1	2.62 H	115	49.4	9.5
7	11380.00	45.7 AV	54.0	-8.3	2.62 H	115	36.2	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.6 PK	74.0	-12.4	1.00 V	185	57.9	3.7
2	5460.00	48.7 AV	54.0	-5.3	1.00 V	185	45.0	3.7
3	#5470.00	60.2 PK	68.2	-8.0	1.00 V	185	56.5	3.7
4	*5690.00	118.9 PK			1.00 V	185	76.3	42.6
5	*5690.00	106.0 AV			1.00 V	185	63.4	42.6
6	11380.00	58.6 PK	74.0	-15.4	1.60 V	124	49.1	9.5
7	11380.00	45.2 AV	54.0	-8.8	1.60 V	124	35.7	9.5

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 (HE80+HE80)	**Channel**	CH 106：5530 MHz CH 122：5610 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	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 67% RH
Tested By	Karl Lee		

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	5460.00	61.1 PK	74.0	-12.9	1.73 H	326	57.4	3.7
2	5460.00	49.5 AV	54.0	-4.5	1.73 H	326	45.8	3.7
3	#5470.00	60.4 PK	68.2	-7.8	1.56 H	355	56.7	3.7
4	*5530.00	102.5 PK			1.73 H	341	60.9	41.6
5	*5530.00	89.2 AV			1.73 H	341	47.6	41.6
6	*5610.00	109.8 PK			1.73 H	341	67.6	42.2
7	*5610.00	96.5 AV			1.73 H	341	54.3	42.2
8	#5725.00	64.9 PK	68.2	-3.3	1.62 H	299	60.0	4.9
9	11060.00	58.2 PK	74.0	-15.8	2.22 H	157	48.8	9.4
10	11060.00	44.9 AV	54.0	-9.1	2.22 H	157	35.5	9.4
11	11220.00	58.0 PK	74.0	-16.0	2.53 H	193	49.1	8.9
12	11220.00	44.7 AV	54.0	-9.3	2.53 H	193	35.8	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	65.0 PK	74.0	-9.0	1.53 V	16	61.3	3.7
2	5460.00	52.3 AV	54.0	-1.7	1.53 V	16	48.6	3.7
3	#5470.00	63.1 PK	68.2	-5.1	1.72 V	54	59.4	3.7
4	*5530.00	112.5 PK			1.53 V	20	70.9	41.6
5	*5530.00	98.8 AV			1.53 V	20	57.2	41.6
6	*5610.00	114.3 PK			1.53 V	20	72.1	42.2
7	*5610.00	100.4 AV			1.53 V	20	58.2	42.2
8	#5825.00	65.8 PK	68.2	-2.4	1.75 V	15	60.6	5.2
9	11060.00	58.5 PK	74.0	-15.5	2.05 V	195	49.1	9.4
10	11060.00	45.2 AV	54.0	-8.8	2.05 V	195	35.8	9.4
11	11220.00	57.7 PK	74.0	-16.3	1.63 V	201	48.8	8.9
12	11220.00	44.5 AV	54.0	-9.5	1.63 V	201	35.6	8.9

Remarks:

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

RF Mode	802.11a	Channel	CH 149：5745 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.00	61.8 PK	68.2	-6.4	2.47 H	69	57.1	4.7
2	*5745.00	125.3 PK			2.47 H	69	82.5	42.8
3	*5745.00	115.4 AV			2.47 H	69	72.6	42.8
4	#5942.40	61.6 PK	68.2	-6.6	2.47 H	69	56.2	5.4
5	11490.00	58.0 PK	74.0	-16.0	1.52 H	96	48.6	9.4
6	11490.00	44.7 AV	54.0	-9.3	1.52 H	96	35.3	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5630.40	63.3 PK	68.2	-4.9	1.00 V	174	58.7	4.6
2	*5745.00	128.3 PK			1.00 V	174	85.5	42.8
3	*5745.00	118.9 AV			1.00 V	174	76.1	42.8
4	#5932.00	62.2 PK	68.2	-6.0	1.00 V	174	56.9	5.3
5	11490.00	58.2 PK	74.0	-15.8	2.08 V	147	48.8	9.4
6	11490.00	45.0 AV	54.0	-9.0	2.08 V	147	35.6	9.4

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.

RF Mode	802.11a	Channel	CH 157：5785 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	#5614.80	62.2 PK	68.2	-6.0	2.53 H	49	57.6	4.6
2	*5785.00	125.4 PK			2.53 H	49	82.4	43.0
3	*5785.00	115.6 AV			2.53 H	49	72.6	43.0
4	#5978.00	61.5 PK	68.2	-6.7	2.53 H	49	56.0	5.5
5	11570.00	58.7 PK	74.0	-15.3	1.96 H	224	49.1	9.6
6	11570.00	45.6 AV	54.0	-8.4	1.96 H	224	36.0	9.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5624.80	63.9 PK	68.2	-4.3	1.19 V	184	59.4	4.5
2	*5785.00	129.0 PK			1.19 V	184	86.0	43.0
3	*5785.00	118.8 AV			1.19 V	184	75.8	43.0
4	#5954.00	61.5 PK	68.2	-6.7	1.19 V	184	56.0	5.5
5	11570.00	58.3 PK	74.0	-15.7	2.34 V	188	48.7	9.6
6	11570.00	44.9 AV	54.0	-9.1	2.34 V	188	35.3	9.6

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 165：5825 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	#5629.20	62.5 PK	68.2	-5.7	2.58 H	72	57.9	4.6
2	*5825.00	124.7 PK			2.58 H	72	81.7	43.0
3	*5825.00	114.7 AV			2.58 H	72	71.7	43.0
4	#5988.80	61.5 PK	68.2	-6.7	2.58 H	72	56.0	5.5
5	11650.00	58.8 PK	74.0	-15.2	1.05 H	322	49.3	9.5
6	11650.00	45.5 AV	54.0	-8.5	1.05 H	322	36.0	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5628.00	63.3 PK	68.2	-4.9	1.30 V	184	58.8	4.5
2	*5825.00	128.0 PK			1.30 V	184	85.0	43.0
3	*5825.00	118.2 AV			1.30 V	184	75.2	43.0
4	#5965.60	62.0 PK	68.2	-6.2	1.30 V	184	56.5	5.5
5	11650.00	58.7 PK	74.0	-15.3	2.27 V	156	49.2	9.5
6	11650.00	45.5 AV	54.0	-8.5	2.27 V	156	36.0	9.5

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)	Channel	CH 149：5745 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.20	62.7 PK	68.2	-5.5	2.47 H	69	58.0	4.7
2	*5745.00	125.3 PK			2.47 H	69	82.5	42.8
3	*5745.00	112.6 AV			2.47 H	69	69.8	42.8
4	#5934.00	62.0 PK	68.2	-6.2	2.47 H	69	56.7	5.3
5	11490.00	58.6 PK	74.0	-15.4	1.49 H	127	49.2	9.4
6	11490.00	45.4 AV	54.0	-8.6	1.49 H	127	36.0	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.00	65.8 PK	68.2	-2.4	1.00 V	175	61.1	4.7
2	*5745.00	128.5 PK			1.00 V	186	85.7	42.8
3	*5745.00	116.2 AV			1.00 V	186	73.4	42.8
4	#5988.40	62.7 PK	68.2	-5.5	1.00 V	175	57.2	5.5
5	11490.00	58.1 PK	74.0	-15.9	1.05 V	226	48.7	9.4
6	11490.00	45.0 AV	54.0	-9.0	1.05 V	226	35.6	9.4

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 157：5785 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.00	62.2 PK	68.2	-6.0	2.53 H	49	57.6	4.6
2	*5785.00	125.6 PK			2.53 H	49	82.6	43.0
3	*5785.00	113.2 AV			2.53 H	49	70.2	43.0
4	#5983.20	62.5 PK	68.2	-5.7	2.53 H	49	57.0	5.5
5	11570.00	58.2 PK	74.0	-15.8	1.22 H	342	48.6	9.6
6	11570.00	44.9 AV	54.0	-9.1	1.22 H	342	35.3	9.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5615.20	64.0 PK	68.2	-4.2	1.13 V	186	59.4	4.6
2	*5785.00	128.7 PK			1.13 V	186	85.7	43.0
3	*5785.00	116.3 AV			1.13 V	186	73.3	43.0
4	#5948.00	61.8 PK	68.2	-6.4	1.13 V	186	56.4	5.4
5	11570.00	58.9 PK	74.0	-15.1	1.55 V	293	49.3	9.6
6	11570.00	45.7 AV	54.0	-8.3	1.55 V	293	36.1	9.6

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 165：5825 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	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 67% RH
Tested By	Karl Lee		

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	#5616.00	62.6 PK	68.2	-5.6	2.58 H	72	58.1	4.5
2	*5825.00	125.7 PK			2.58 H	72	82.7	43.0
3	*5825.00	112.8 AV			2.58 H	72	69.8	43.0
4	#5964.40	62.3 PK	68.2	-5.9	2.58 H	72	56.8	5.5
5	11650.00	58.2 PK	74.0	-15.8	1.87 H	116	48.7	9.5
6	11650.00	45.0 AV	54.0	-9.0	1.87 H	116	35.5	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5642.80	63.5 PK	68.2	-4.7	1.30 V	177	58.8	4.7
2	*5825.00	129.1 PK			1.30 V	177	86.1	43.0
3	*5825.00	115.9 AV			1.30 V	177	72.9	43.0
4	#5965.60	61.8 PK	68.2	-6.4	1.30 V	177	56.3	5.5
5	11650.00	58.6 PK	74.0	-15.4	2.53 V	324	49.1	9.5
6	11650.00	45.4 AV	54.0	-8.6	2.53 V	324	35.9	9.5

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 (HE40)	Channel	CH 151：5755 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.80	63.9 PK	68.2	-4.3	2.51 H	55	59.3	4.6
2	*5755.00	122.9 PK			2.51 H	55	80.0	42.9
3	*5755.00	109.7 AV			2.51 H	55	66.8	42.9
4	#5960.80	61.7 PK	68.2	-6.5	2.51 H	55	56.2	5.5
5	11510.00	58.0 PK	74.0	-16.0	3.25 H	108	48.6	9.4
6	11510.00	44.6 AV	54.0	-9.4	3.25 H	108	35.2	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.00	67.7 PK	68.2	-0.5	1.00 V	186	63.1	4.6
2	*5755.00	125.5 PK			1.00 V	186	82.6	42.9
3	*5755.00	112.8 AV			1.00 V	186	69.9	42.9
4	#5981.60	61.5 PK	68.2	-6.7	1.00 V	186	56.0	5.5
5	11510.00	58.1 PK	74.0	-15.9	2.05 V	301	48.7	9.4
6	11510.00	44.8 AV	54.0	-9.2	2.05 V	301	35.4	9.4

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 159：5795 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.40	63.5 PK	68.2	-4.7	2.58 H	29	58.9	4.6
2	*5795.00	123.8 PK			2.58 H	29	80.8	43.0
3	*5795.00	111.1 AV			2.58 H	29	68.1	43.0
4	#5970.40	61.7 PK	68.2	-6.5	2.58 H	29	56.2	5.5
5	11590.00	58.4 PK	74.0	-15.6	2.37 H	132	48.7	9.7
6	11590.00	45.3 AV	54.0	-8.7	2.37 H	132	35.6	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.60	65.8 PK	68.2	-2.4	1.00 V	186	61.1	4.7
2	*5795.00	127.4 PK			1.00 V	186	84.4	43.0
3	*5795.00	114.3 AV			1.00 V	186	71.3	43.0
4	#5996.80	62.0 PK	68.2	-6.2	1.00 V	186	56.3	5.7
5	11590.00	58.9 PK	74.0	-15.1	2.56 V	138	49.2	9.7
6	11590.00	45.6 AV	54.0	-8.4	2.56 V	138	35.9	9.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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 155：5775 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	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Karl Lee		

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	#5646.40	65.6 PK	68.2	-2.6	2.49 H	57	60.9	4.7
2	*5775.00	119.2 PK			2.49 H	57	76.2	43.0
3	*5775.00	106.5 AV			2.49 H	57	63.5	43.0
4	#5985.20	62.0 PK	68.2	-6.2	2.49 H	57	56.5	5.5
5	11550.00	58.6 PK	74.0	-15.4	1.76 H	225	49.1	9.5
6	11550.00	45.2 AV	54.0	-8.8	1.76 H	225	35.7	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.40	67.6 PK	68.2	-0.6	1.00 V	186	62.9	4.7
2	*5775.00	122.3 PK			1.00 V	186	79.3	43.0
3	*5775.00	109.6 AV			1.00 V	186	66.6	43.0
4	#5946.00	62.5 PK	68.2	-5.7	1.00 V	186	57.1	5.4
5	11550.00	58.2 PK	74.0	-15.8	2.25 V	184	48.7	9.5
6	11550.00	45.0 AV	54.0	-9.0	2.25 V	184	35.5	9.5

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.

Mode B

Plot of Band Edge

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

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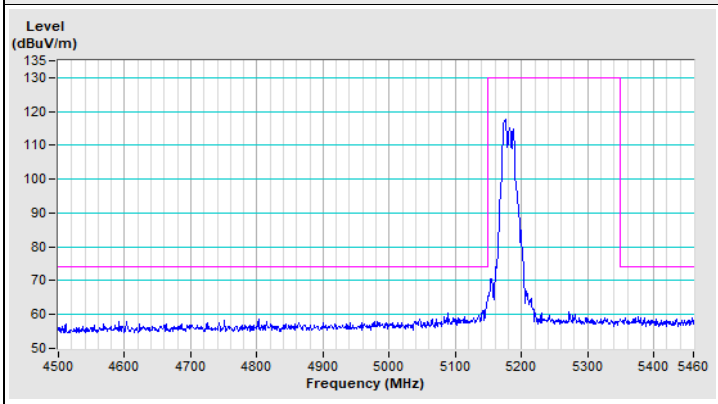
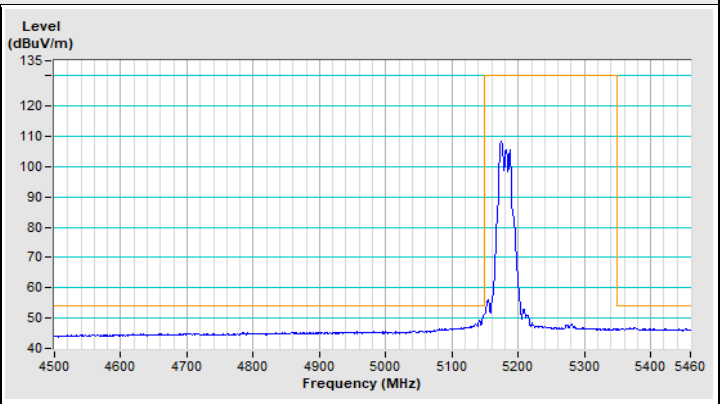
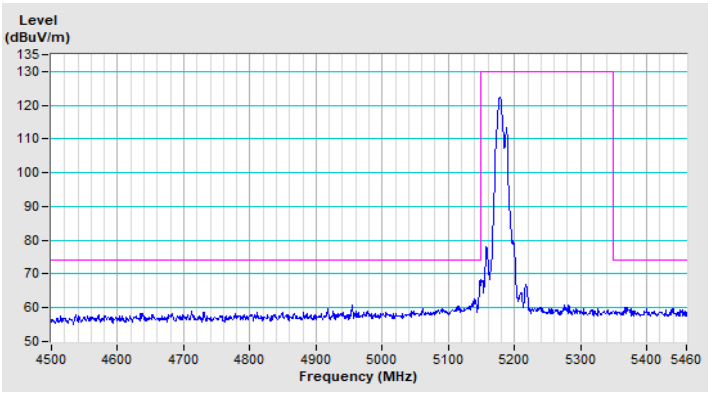


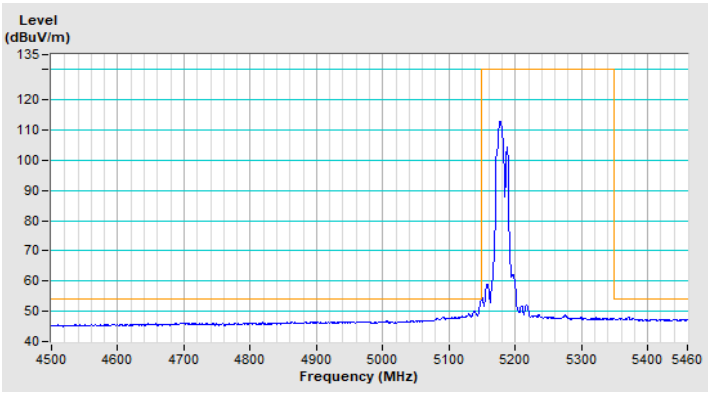
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

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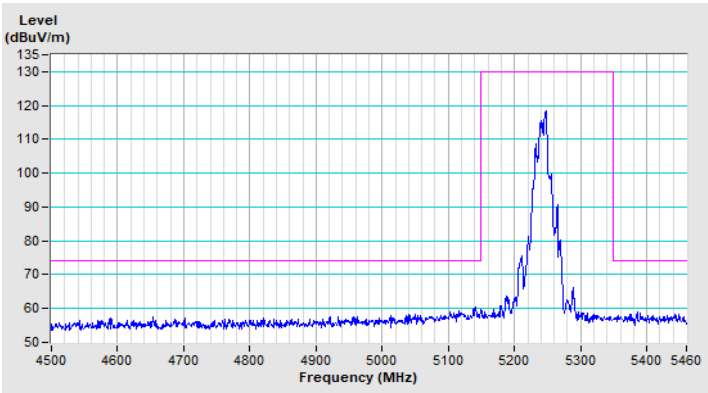
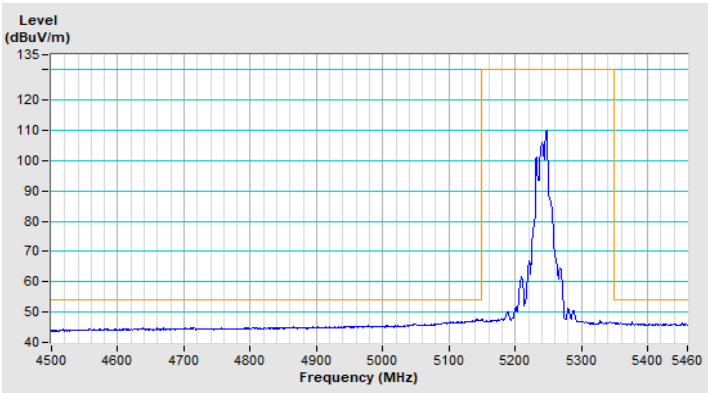
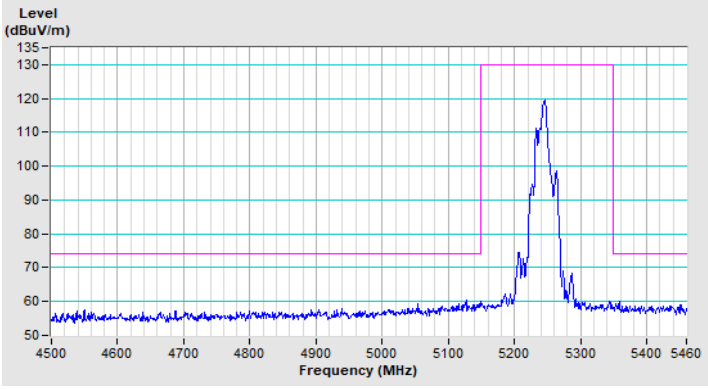


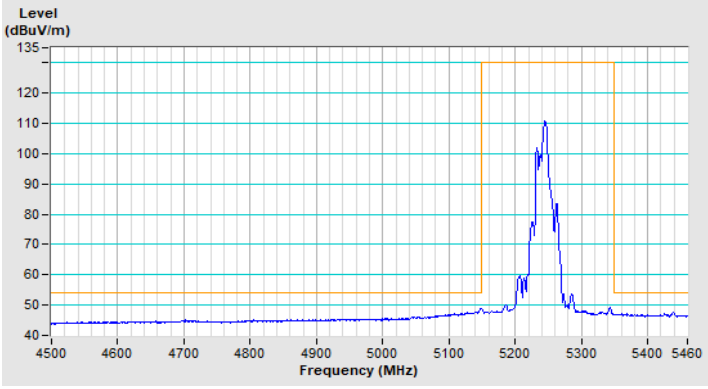
Horizontal (Peak)



Horizontal (Average)



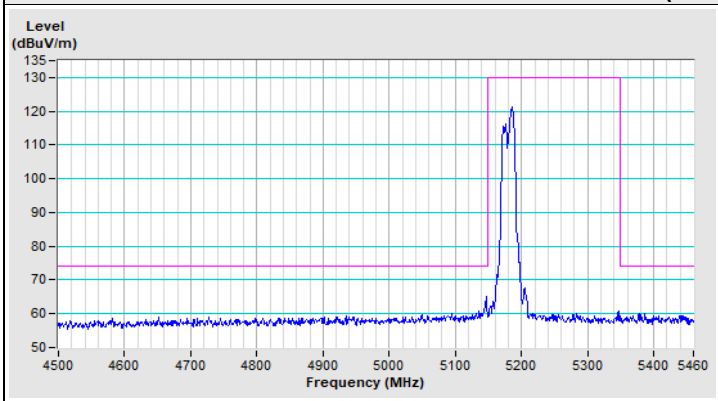
Vertical (Peak)



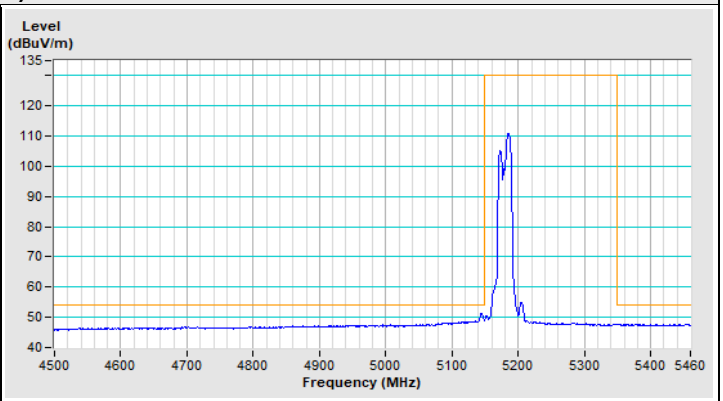
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

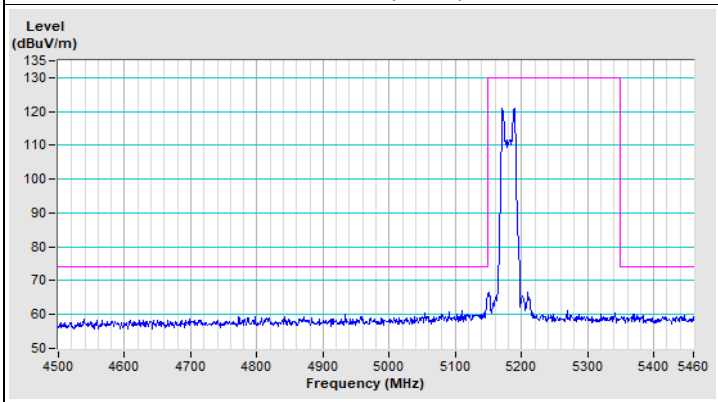
802.11ax (HE20) Channel 36



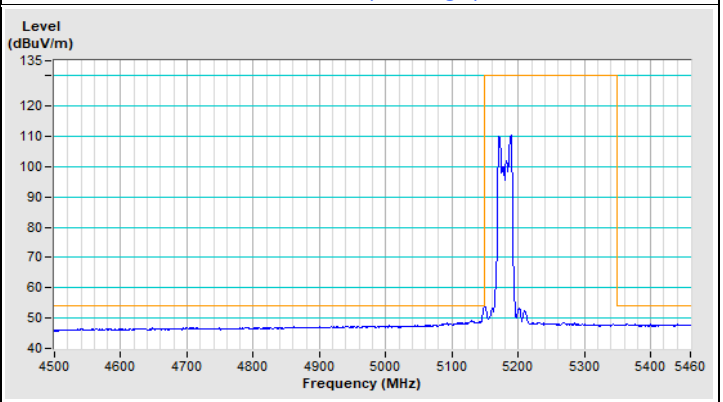
Horizontal (Peak)



Horizontal (Average)

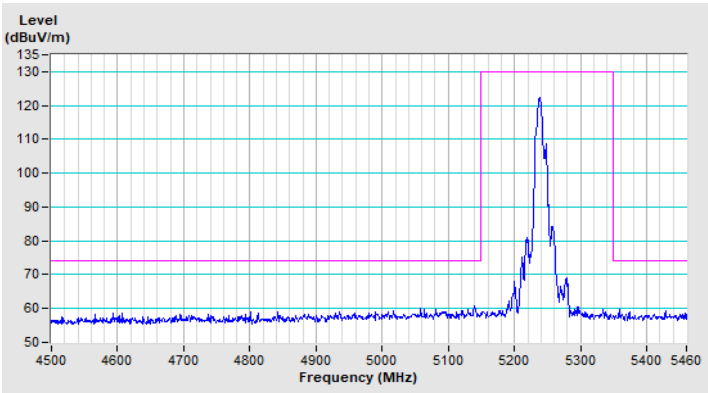


Vertical (Peak)

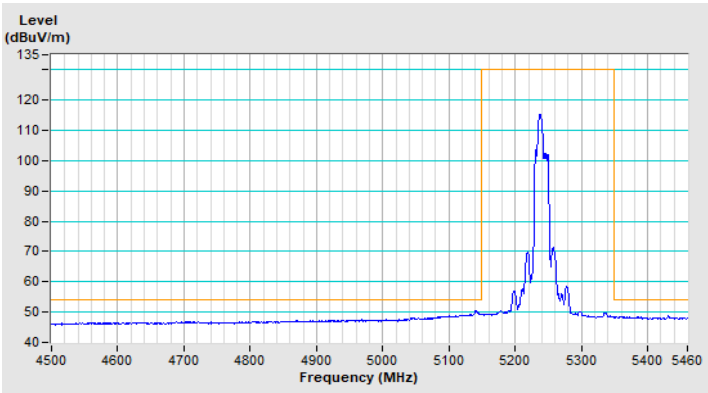


Vertical (Average)

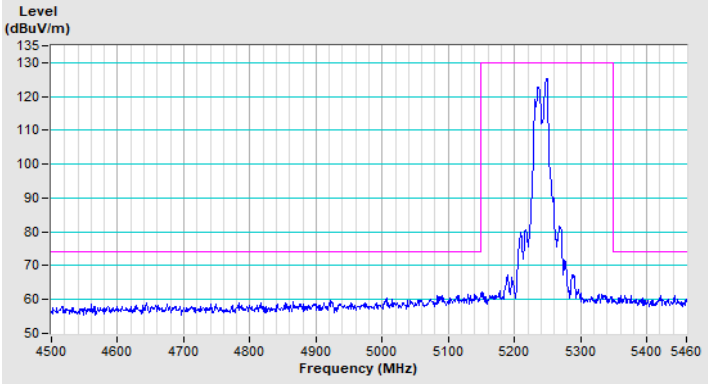
802.11ax (HE20) Channel 48



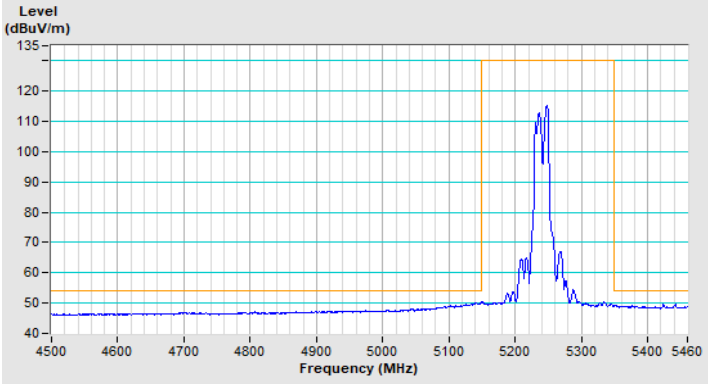
Horizontal (Peak)



Horizontal (Average)



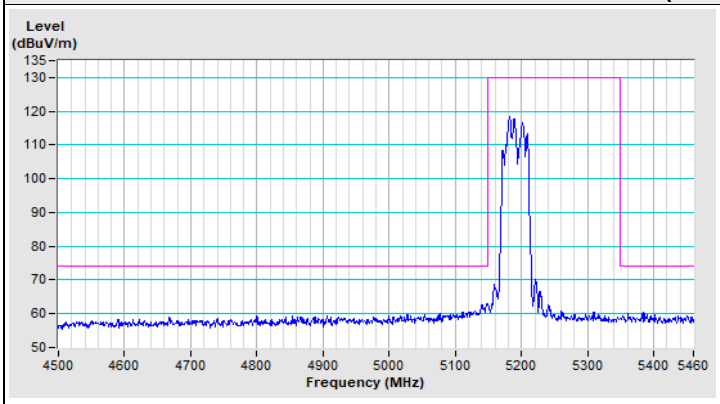
Vertical (Peak)



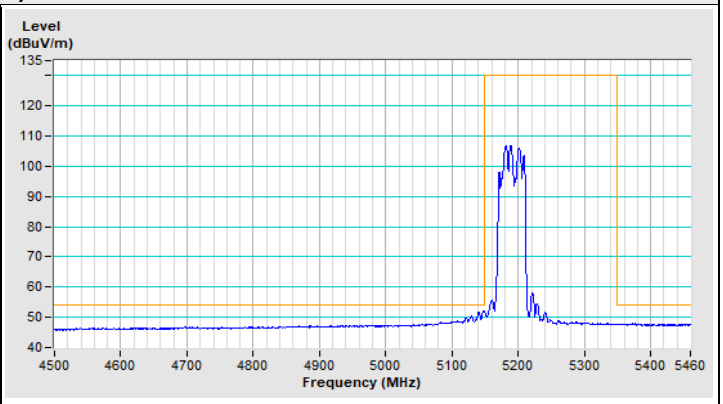
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

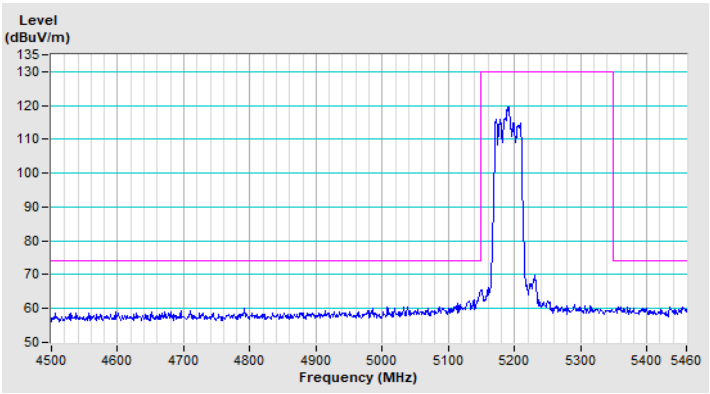
802.11ax (HE40) Channel 38



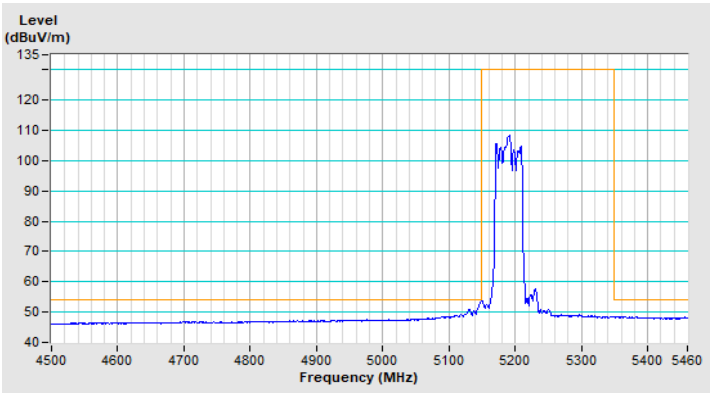
Horizontal (Peak)



Horizontal (Average)

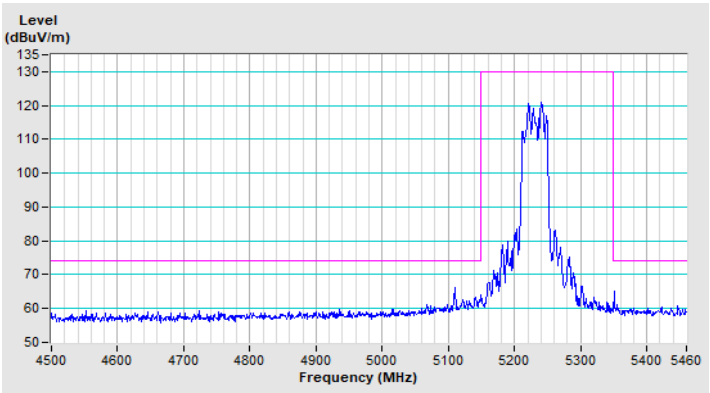


Vertical (Peak)

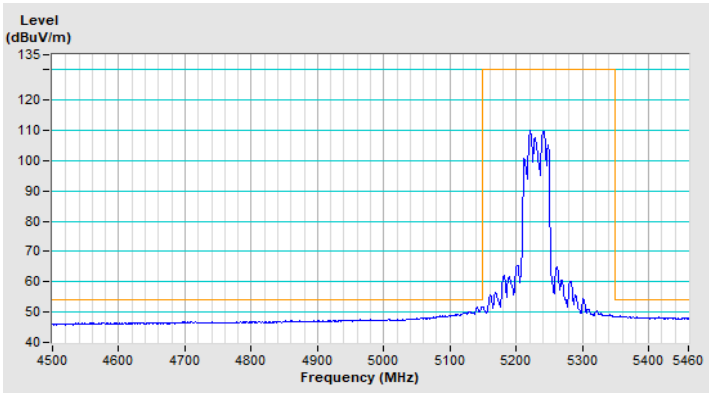


Vertical (Average)

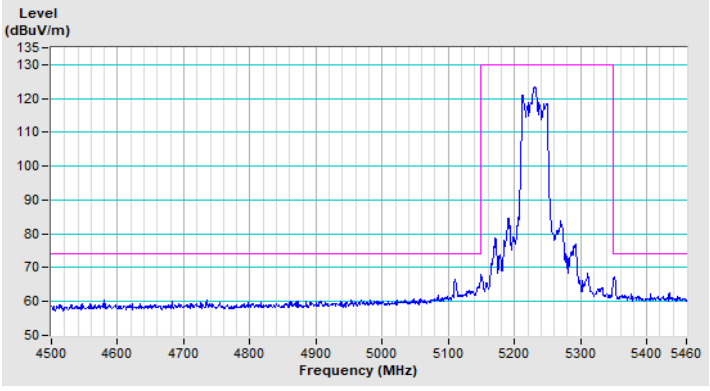
802.11ax (HE40) Channel 46



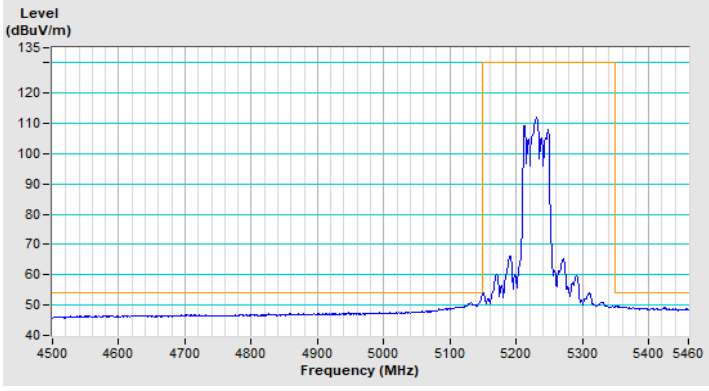
Horizontal (Peak)



Horizontal (Average)



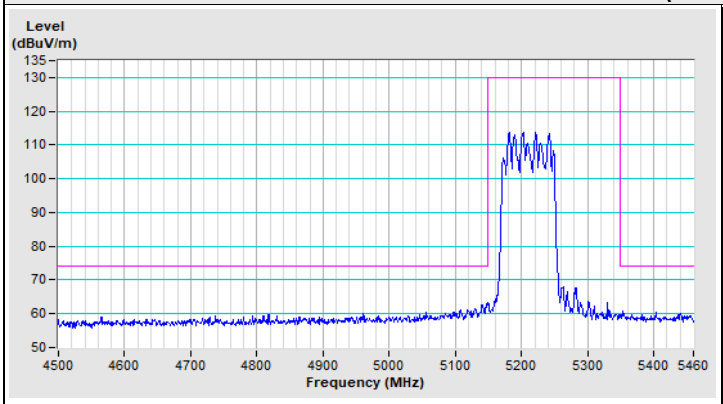
Vertical (Peak)



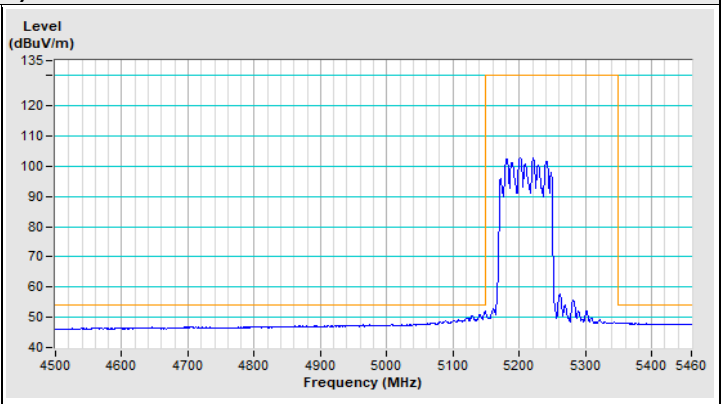
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

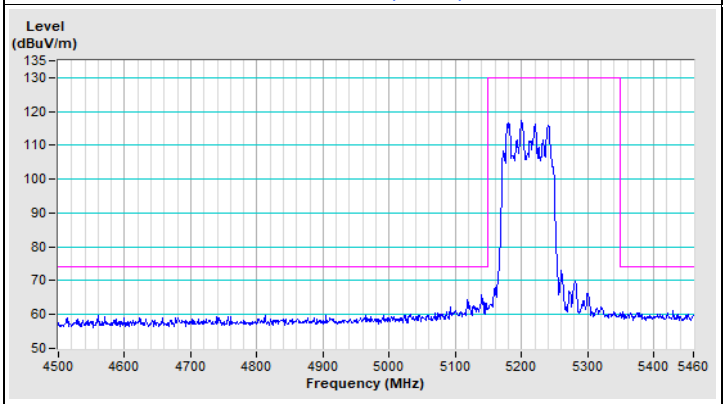
802.11ax (HE80) Channel 42



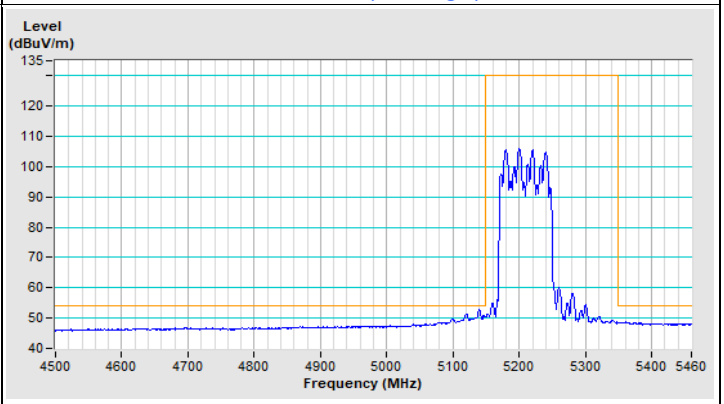
Horizontal (Peak)



Horizontal (Average)



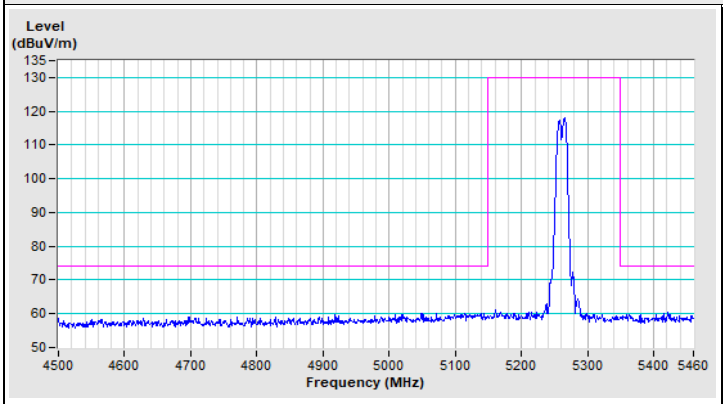
Vertical (Peak)



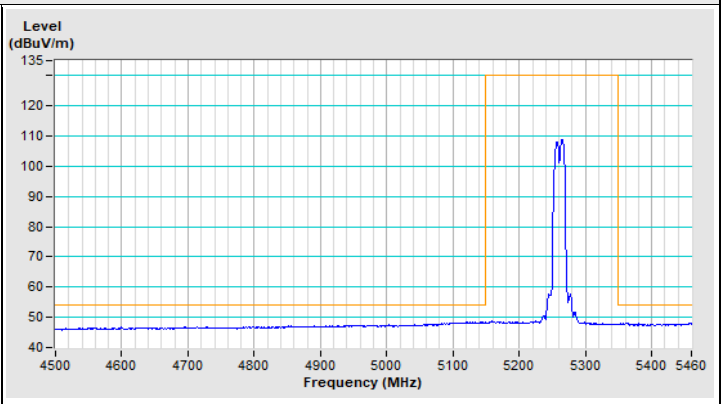
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

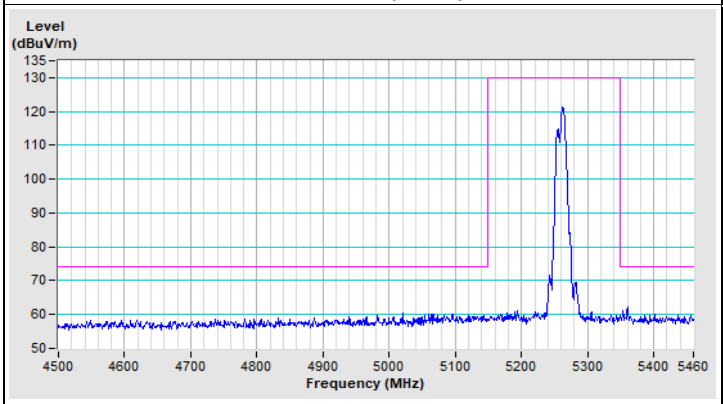
802.11a Channel 52



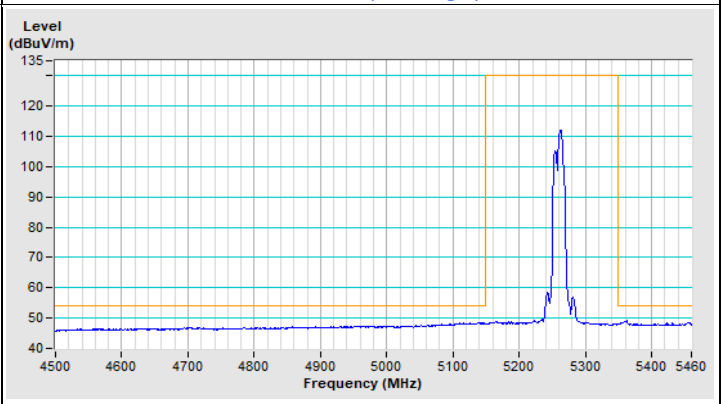
Horizontal (Peak)



Horizontal (Average)

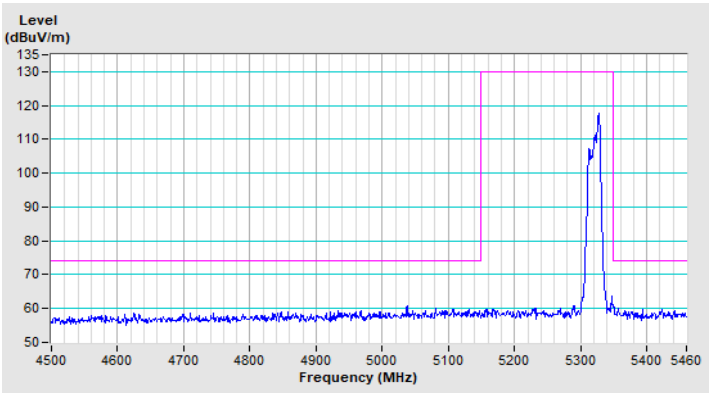


Vertical (Peak)

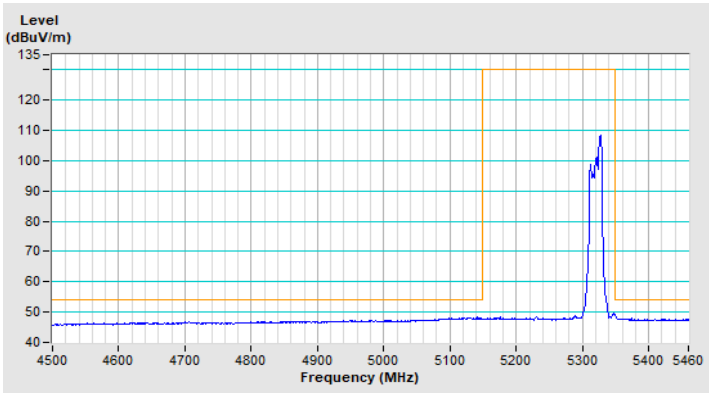


Vertical (Average)

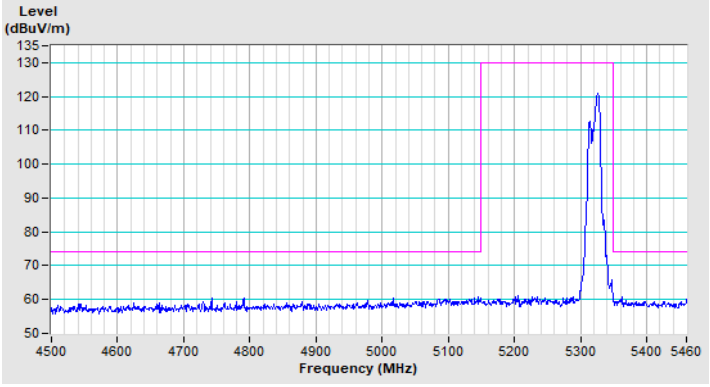
802.11a Channel 64



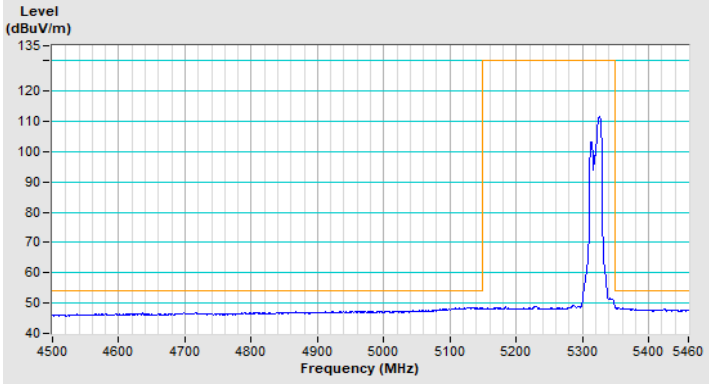
Horizontal (Peak)



Horizontal (Average)



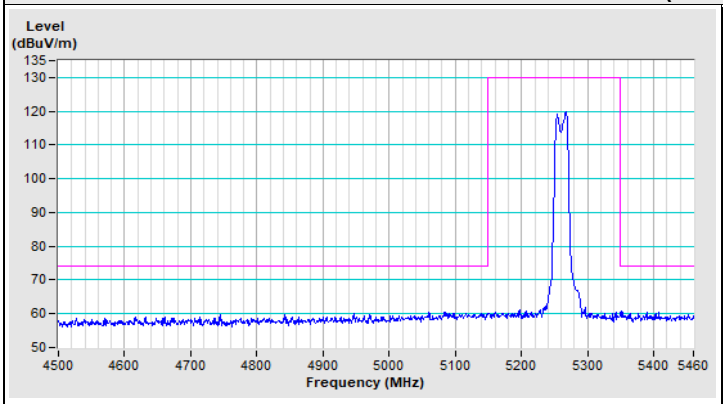
Vertical (Peak)



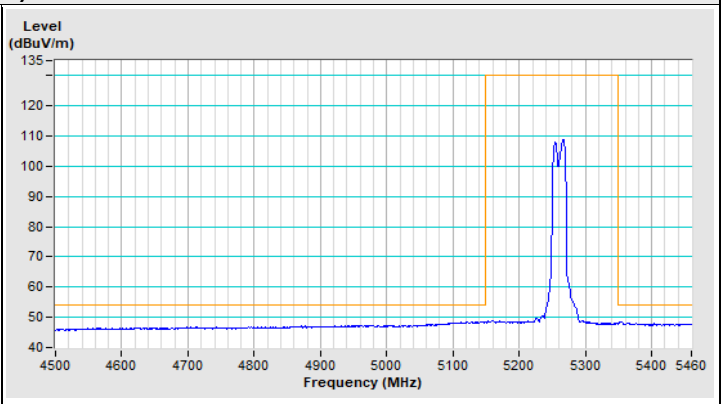
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

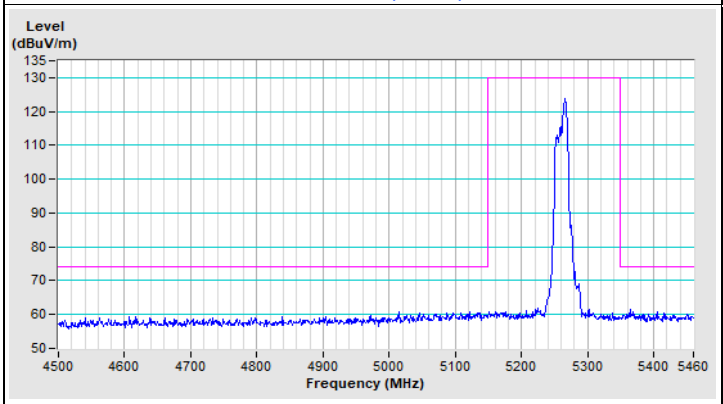
802.11ax (HE20) Channel 52



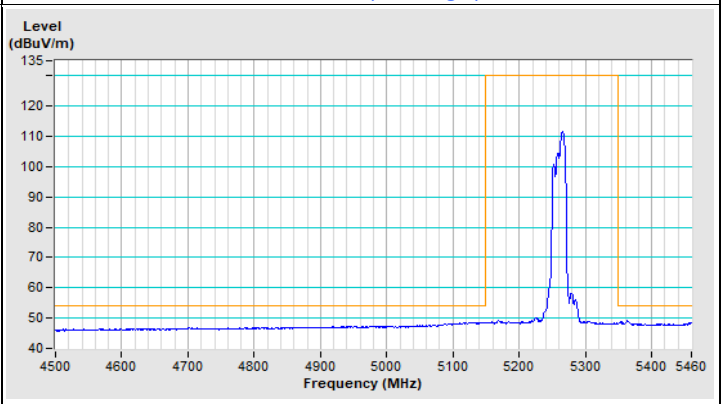
Horizontal (Peak)



Horizontal (Average)

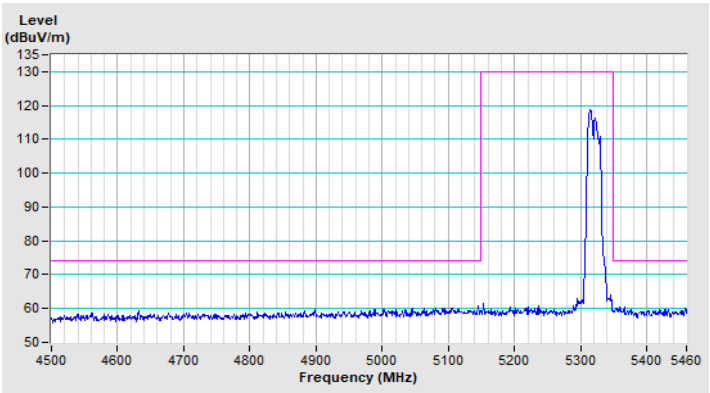


Vertical (Peak)

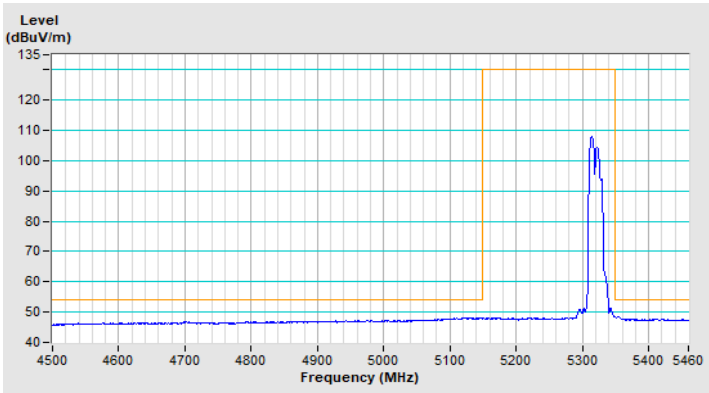


Vertical (Average)

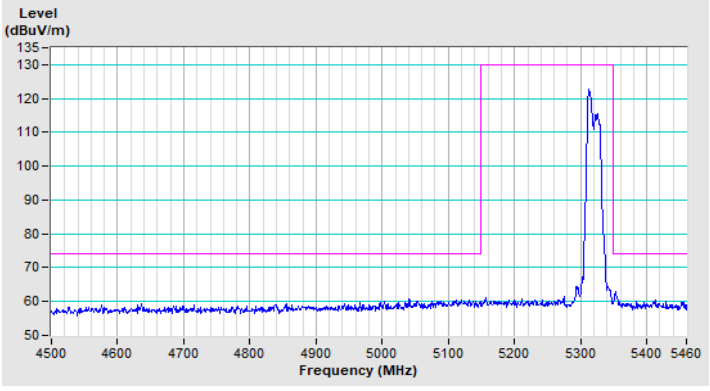
802.11ax (HE20) Channel 64



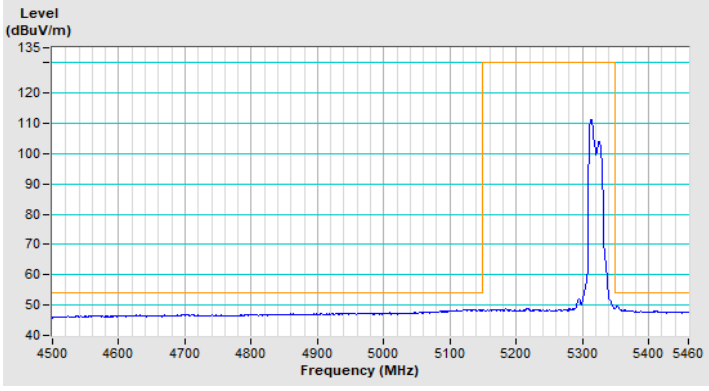
Horizontal (Peak)



Horizontal (Average)



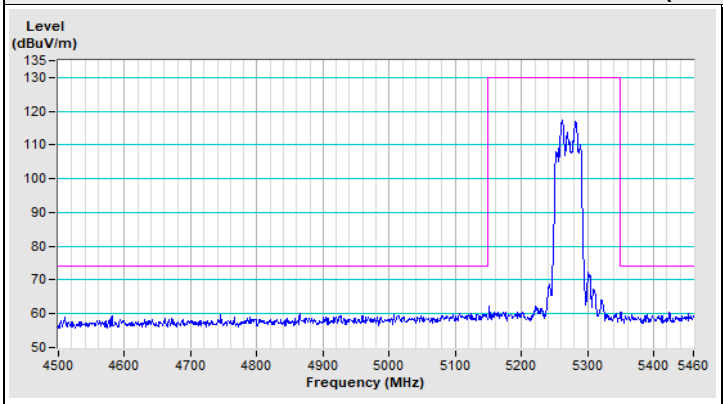
Vertical (Peak)



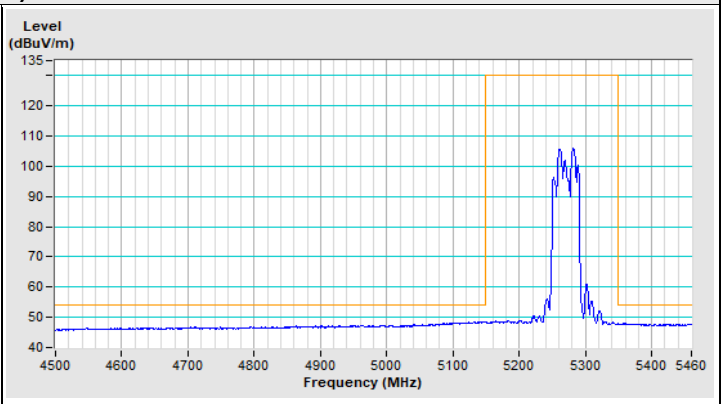
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

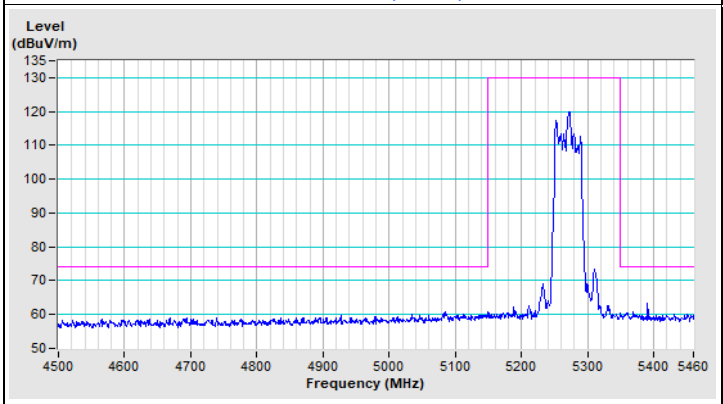
802.11ax (HE40) Channel 54



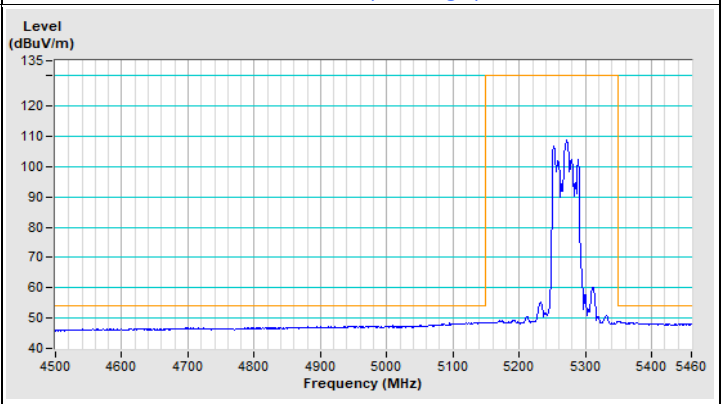
Horizontal (Peak)



Horizontal (Average)

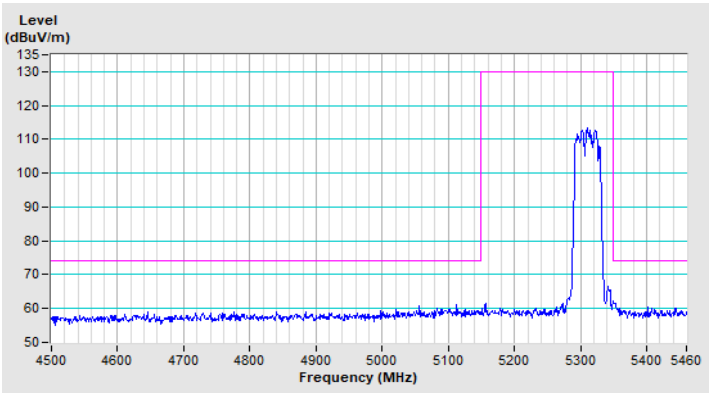


Vertical (Peak)

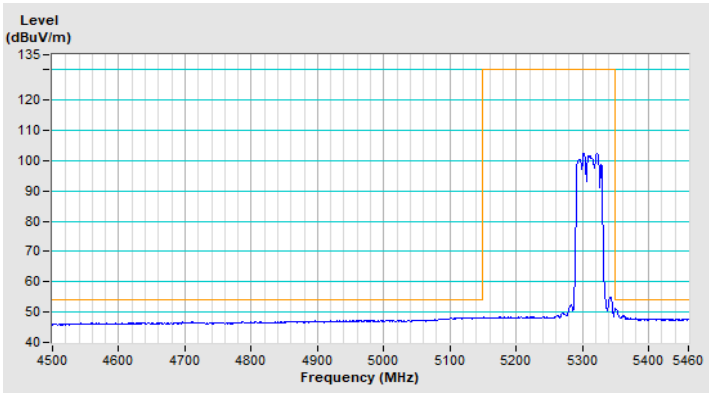


Vertical (Average)

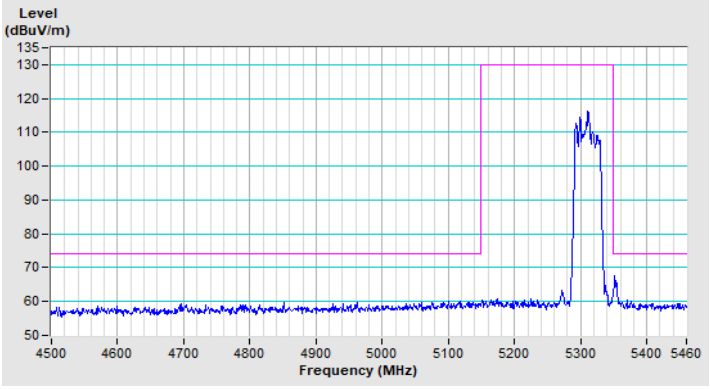
802.11ax (HE40) Channel 62



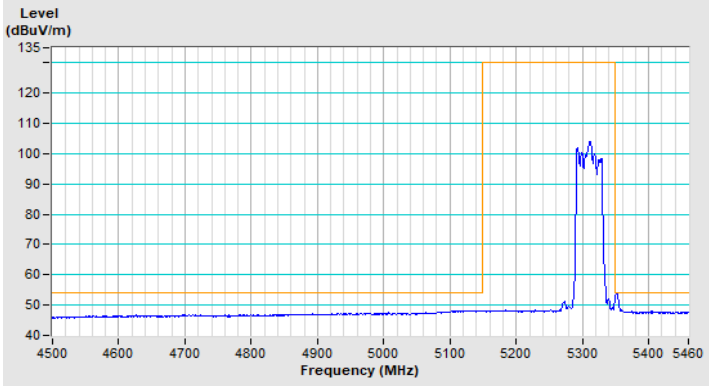
Horizontal (Peak)



Horizontal (Average)



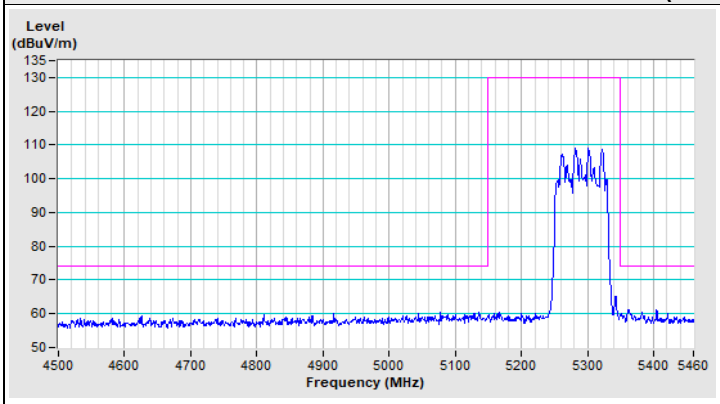
Vertical (Peak)



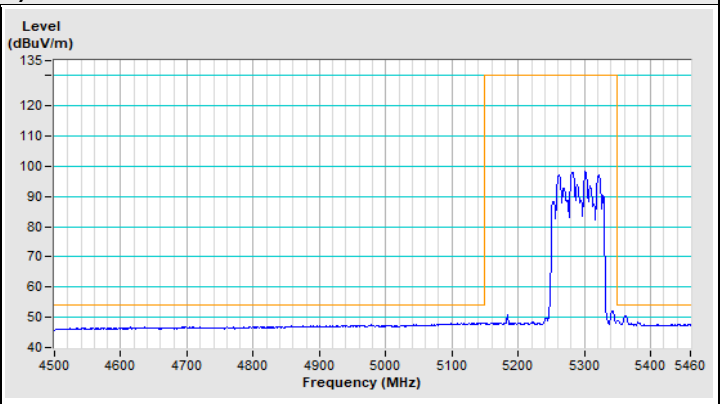
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

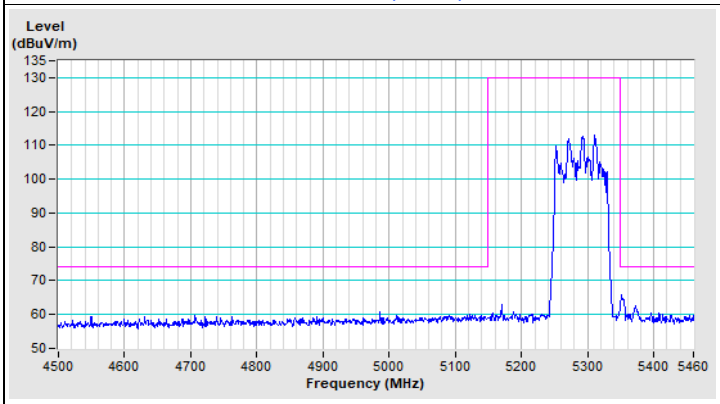
802.11ax (HE80) Channel 58



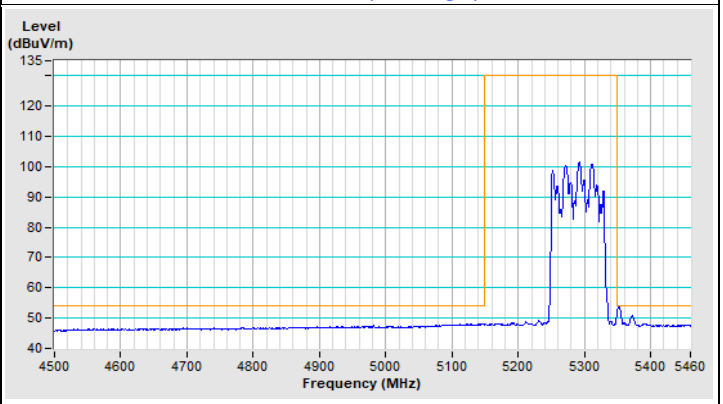
Horizontal (Peak)



Horizontal (Average)

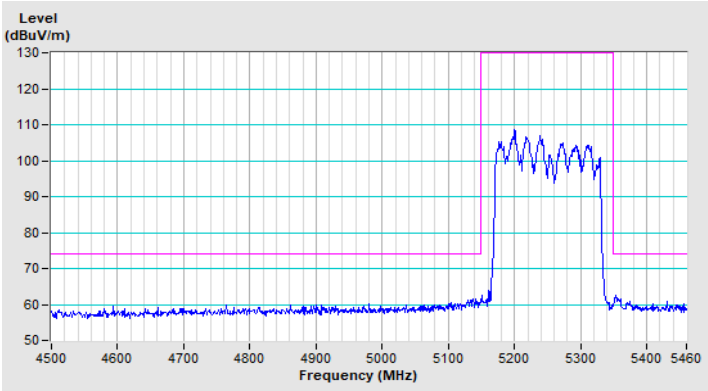


Vertical (Peak)

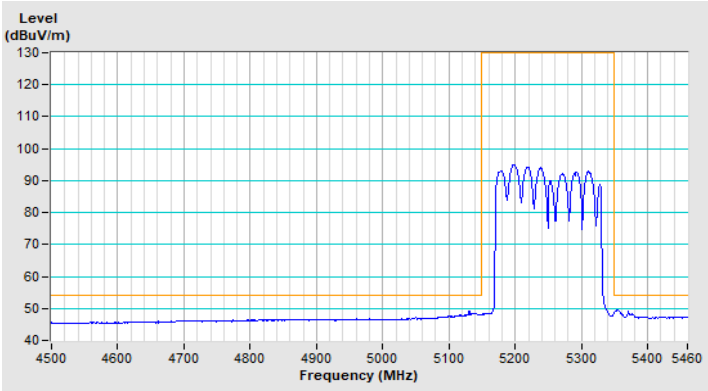


Vertical (Average)

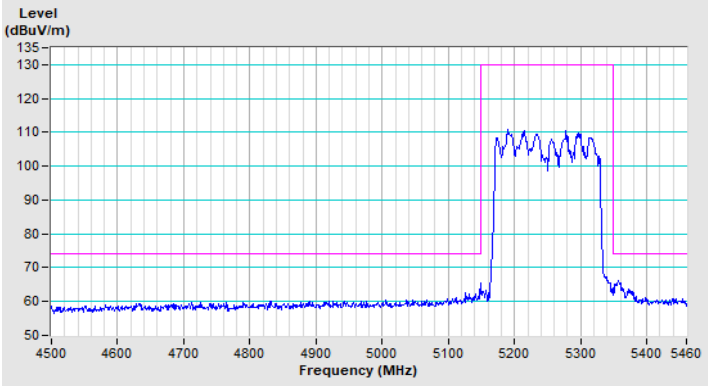
802.11ax (HE80+HE80) Channel 42+58



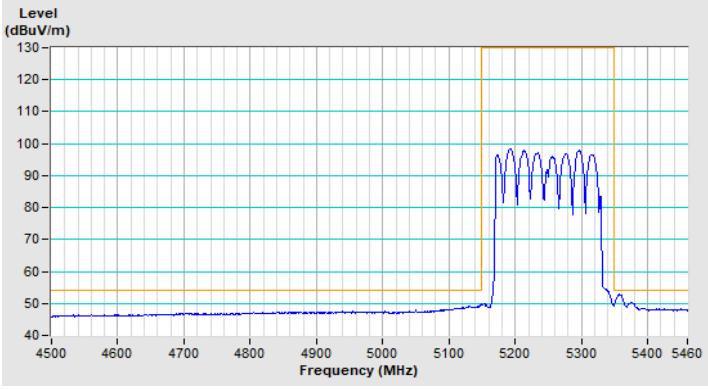
Horizontal (Peak)



Horizontal (Average)



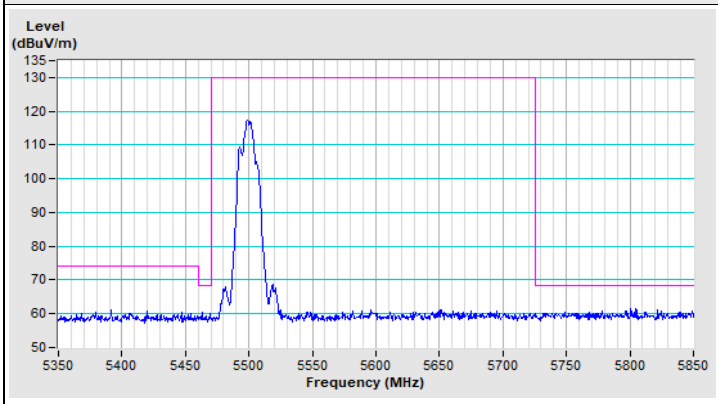
Vertical (Peak)



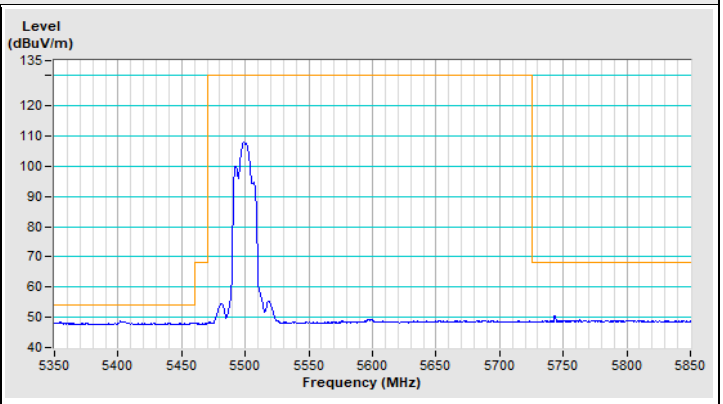
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

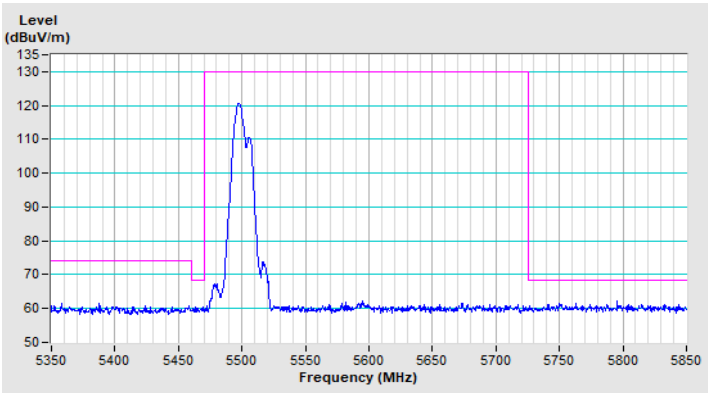
802.11a Channel 100



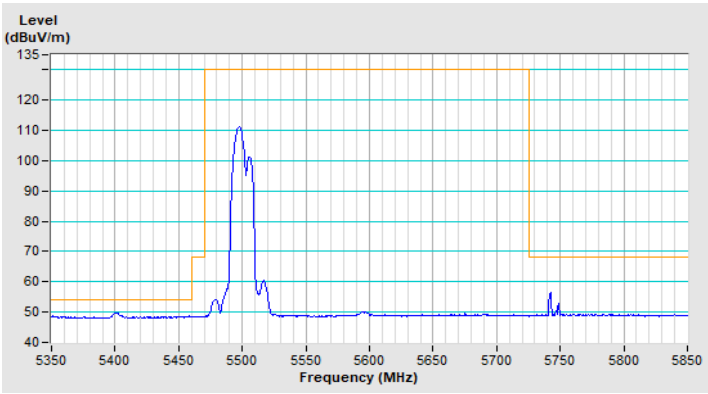
Horizontal (Peak)



Horizontal (Average)

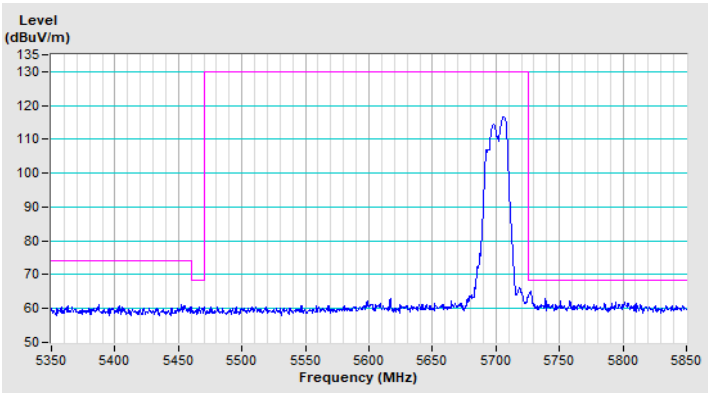


Vertical (Peak)

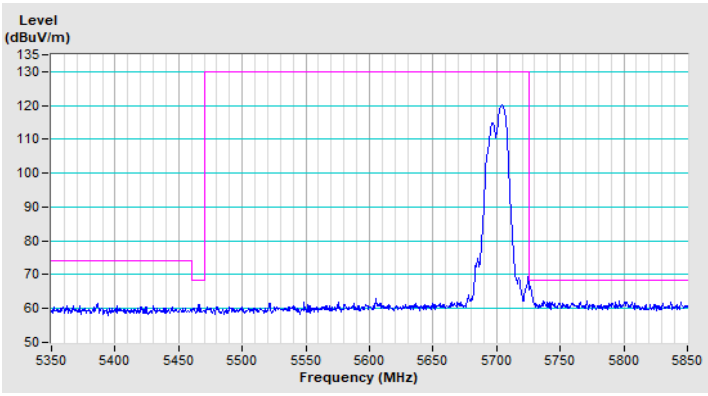


Vertical (Average)

802.11a Channel 140



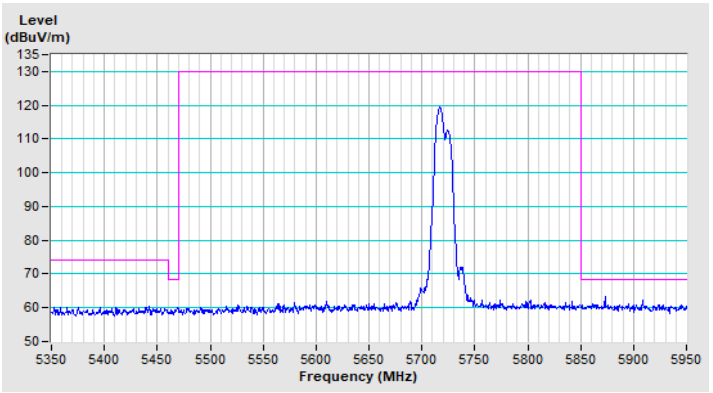
Horizontal (Peak)



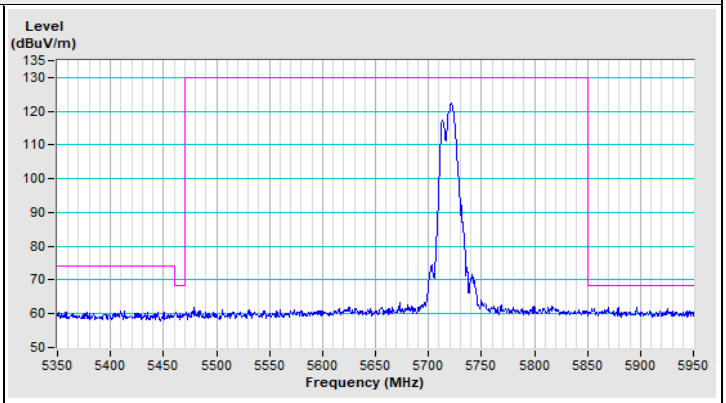
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11a Channel 144



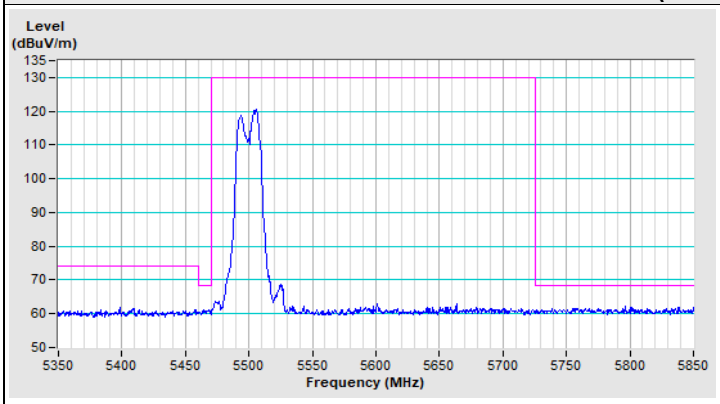
Horizontal (Peak)



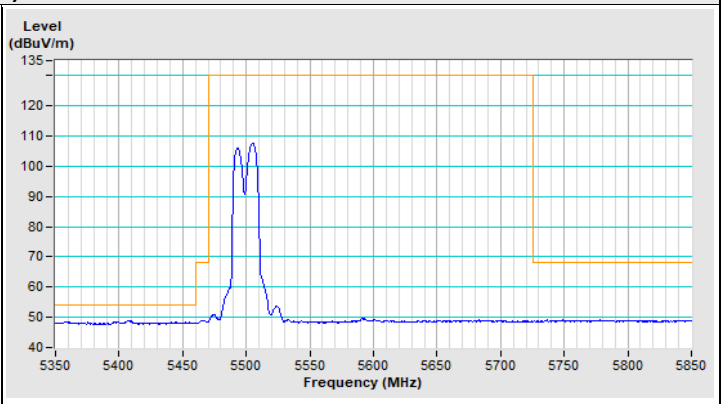
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

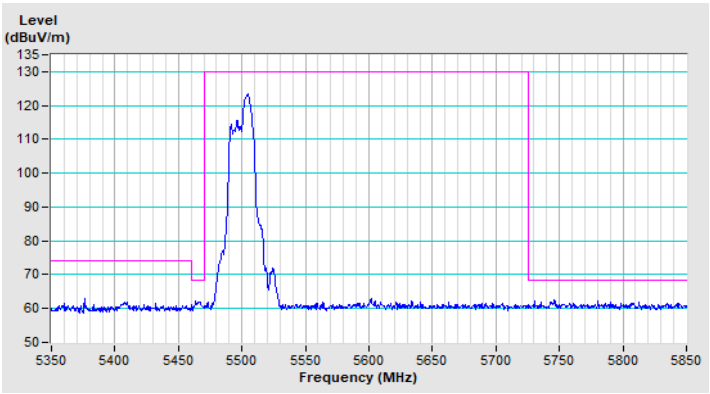
802.11ax (HE20) Channel 100



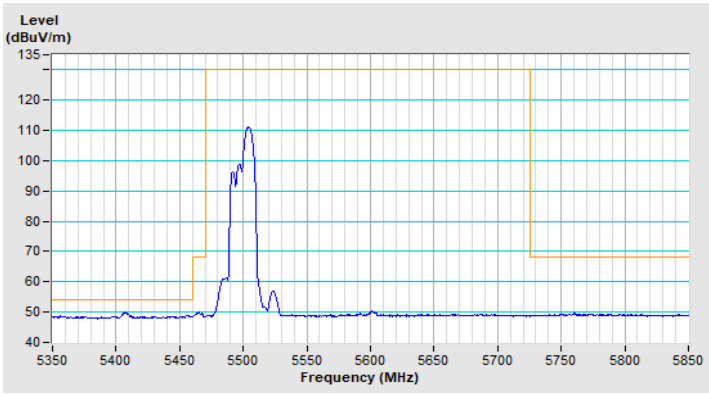
Horizontal (Peak)



Horizontal (Average)

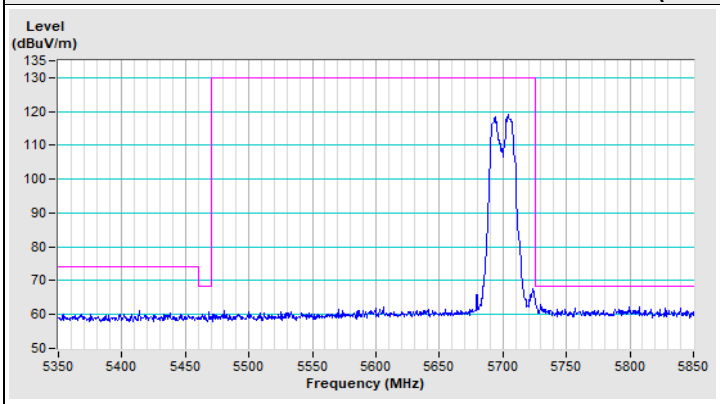


Vertical (Peak)

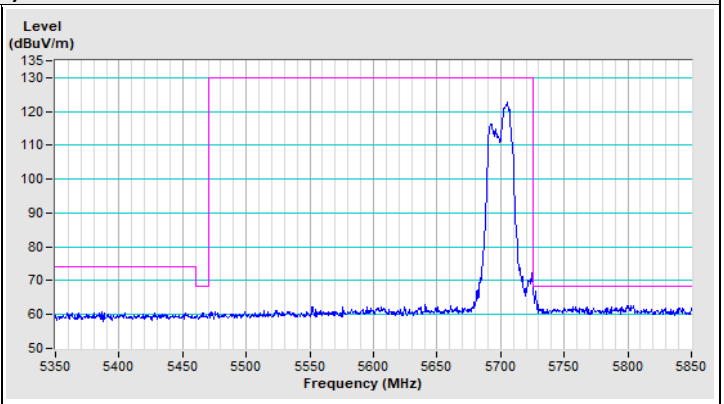


Vertical (Average)

802.11ax (HE20) Channel 140



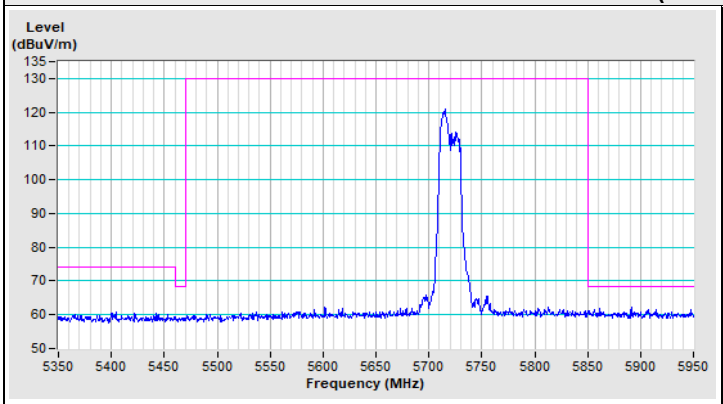
Horizontal (Peak)



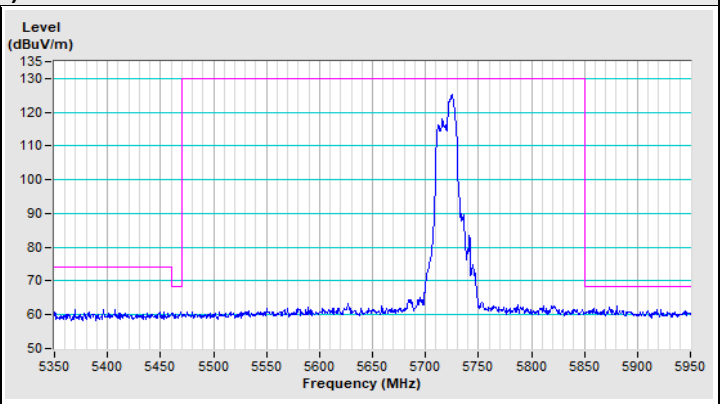
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11ax (HE20) Channel 144



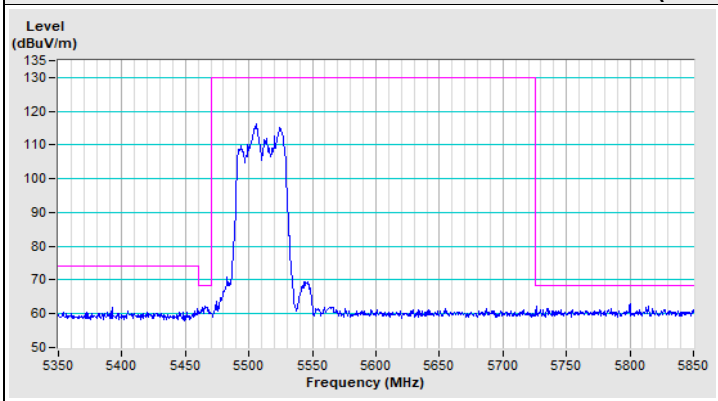
Horizontal (Peak)



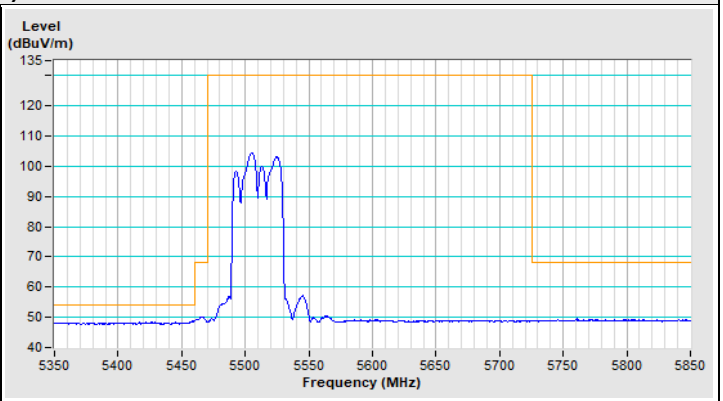
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

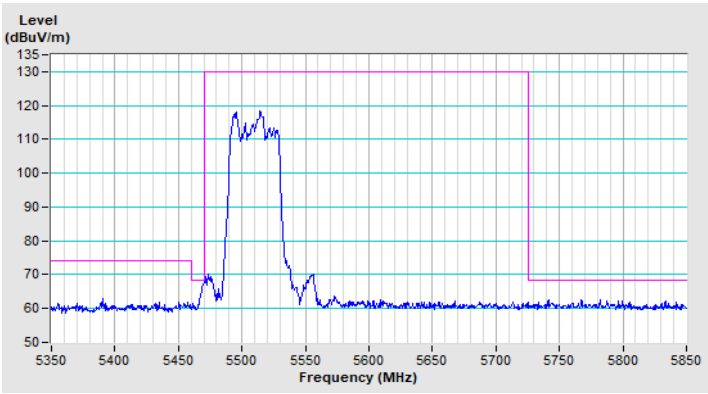
802.11ax (HE40) Channel 102



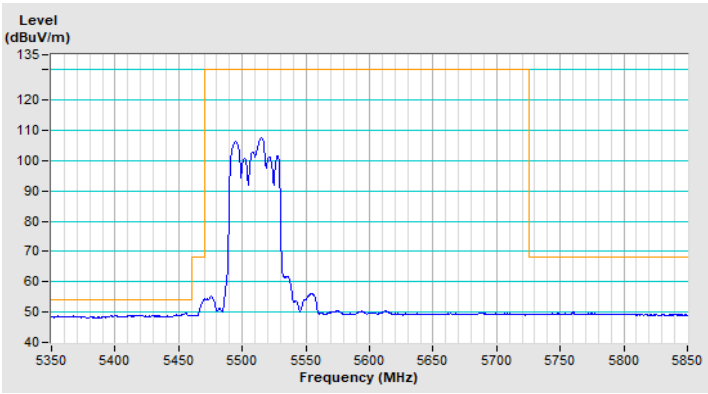
Horizontal (Peak)



Horizontal (Average)

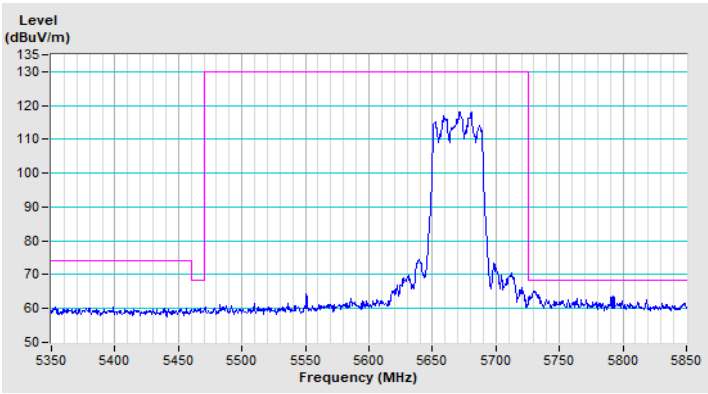


Vertical (Peak)

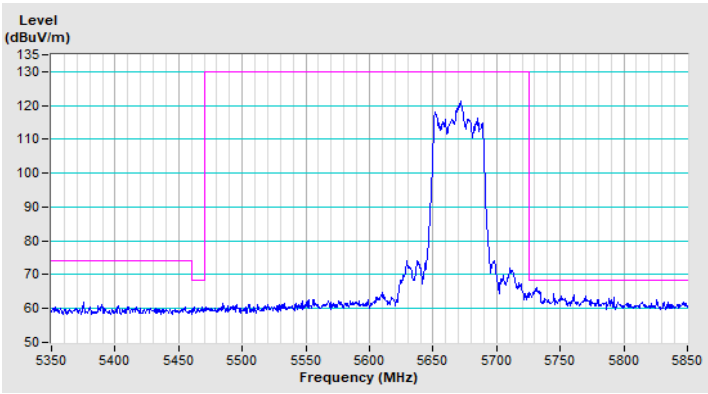


Vertical (Average)

802.11ax (HE40) Channel 134

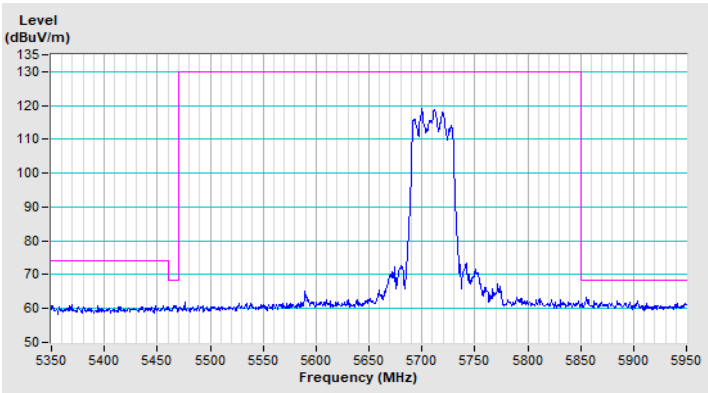


Horizontal (Peak)

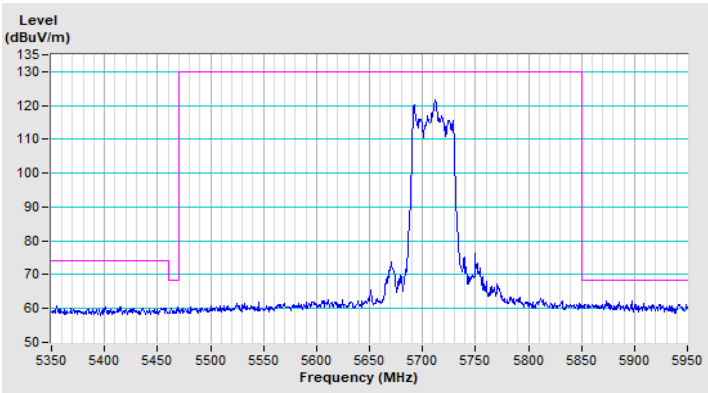


Vertical (Peak)

802.11ax (HE40) Channel 142



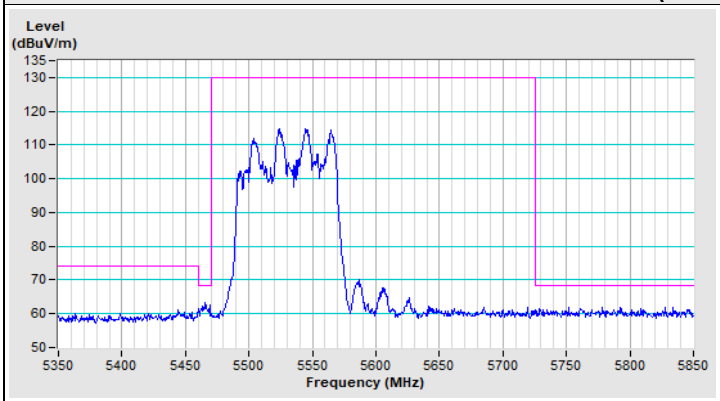
Horizontal (Peak)



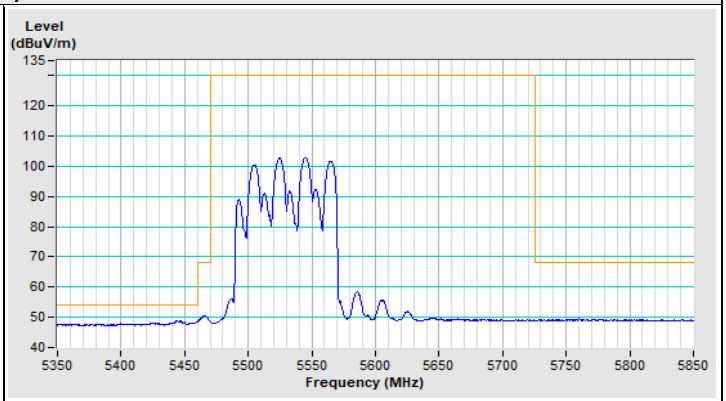
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

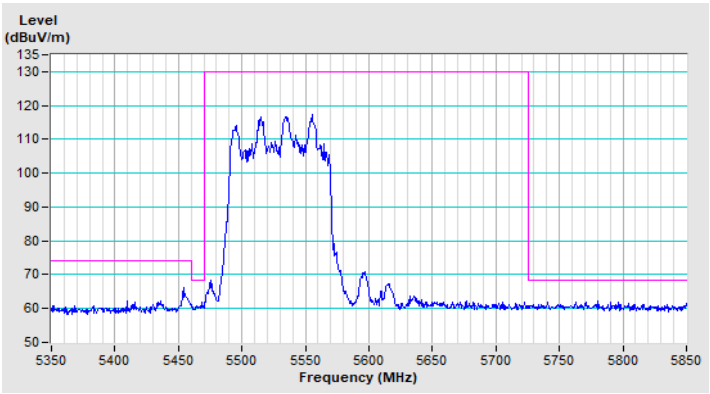
802.11ax (HE80) Channel 106



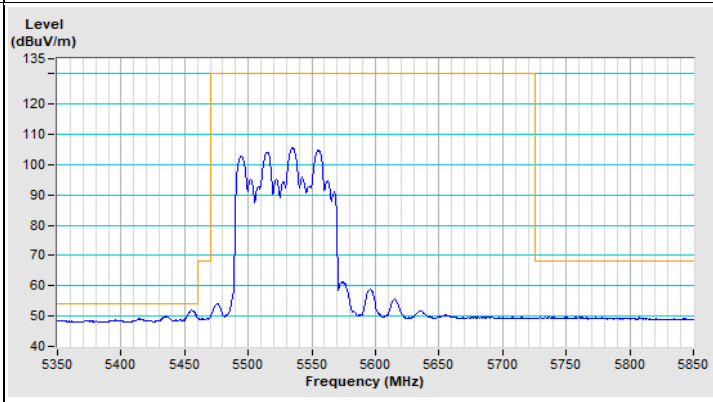
Horizontal (Peak)



Horizontal (Average)

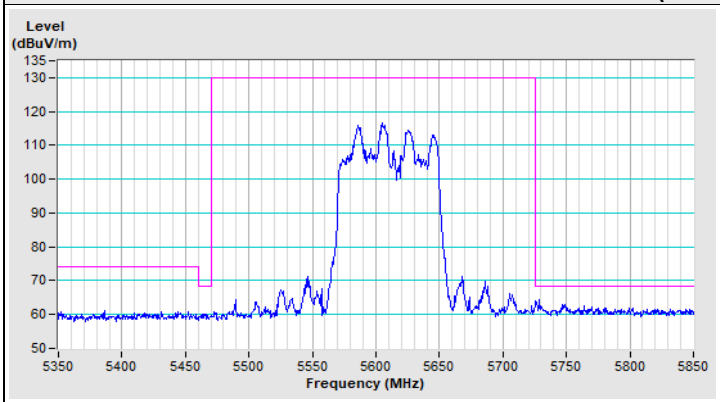


Vertical (Peak)

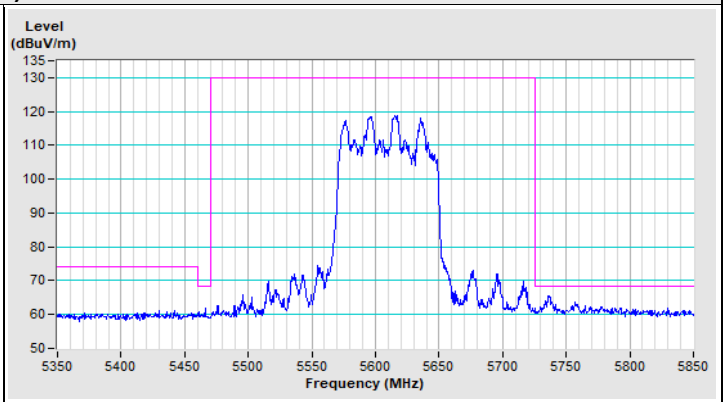


Vertical (Average)

802.11ax (HE80) Channel 122



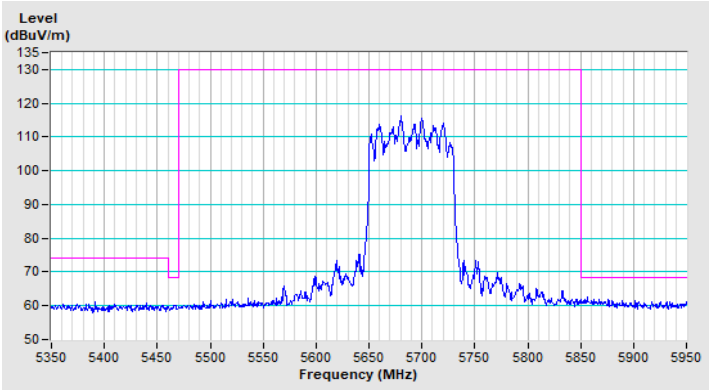
Horizontal (Peak)



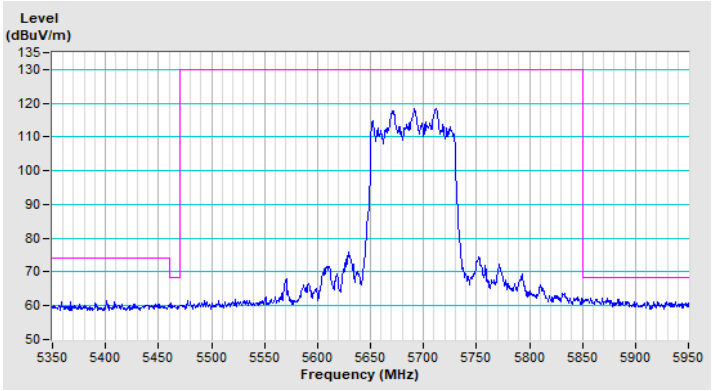
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11ax (HE80) Channel 138



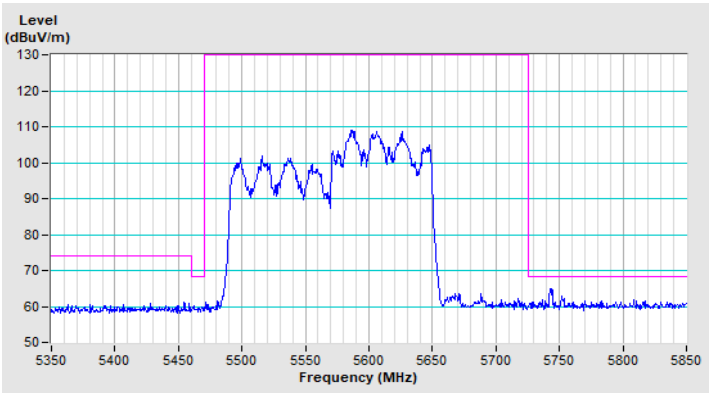
Horizontal (Peak)



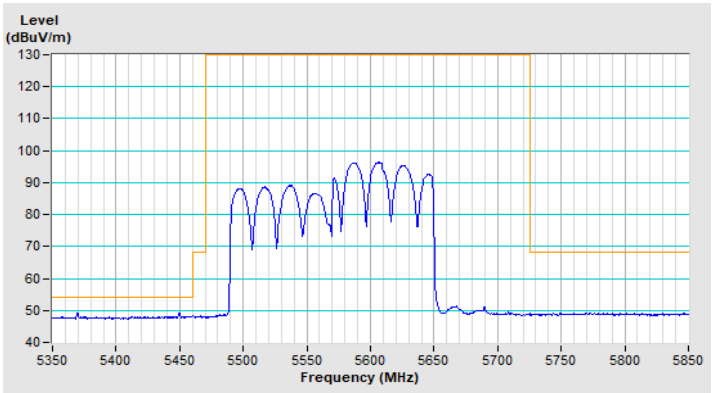
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak

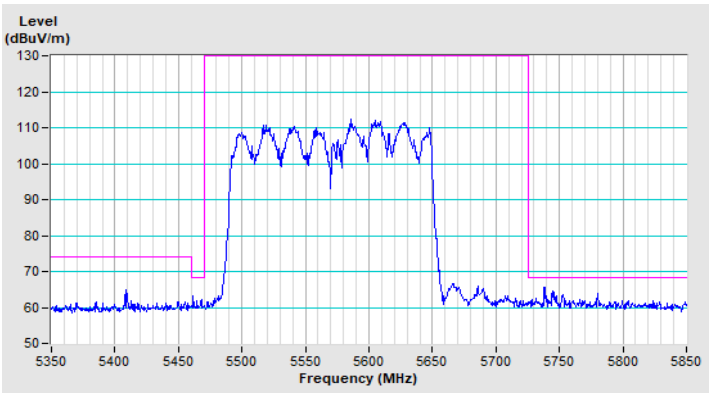
802.11ax (HE80+HE80) Channel 106+122



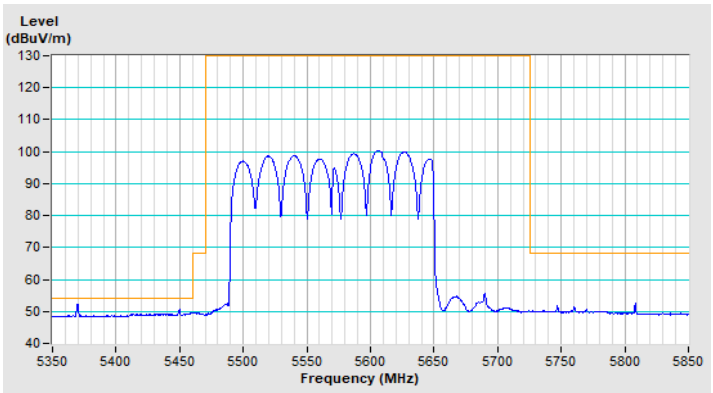
Horizontal (Peak)



Horizontal (Average)



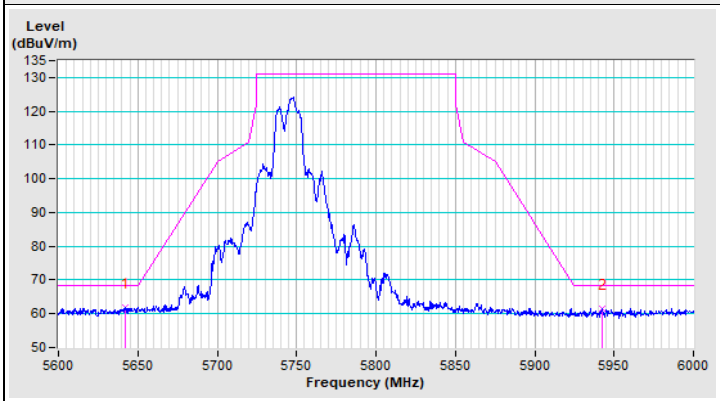
Vertical (Peak)



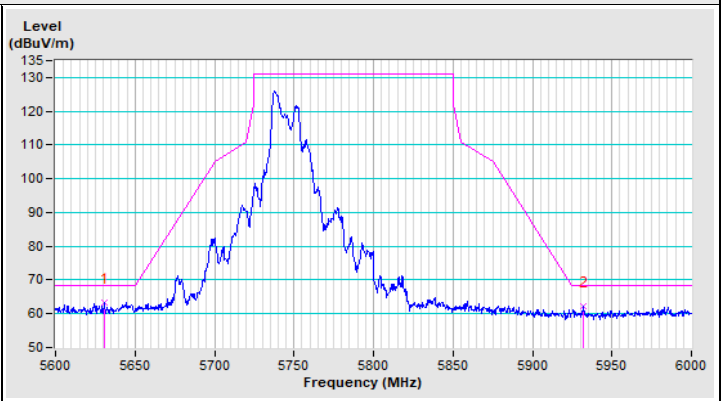
Vertical (Average)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11a Channel 149

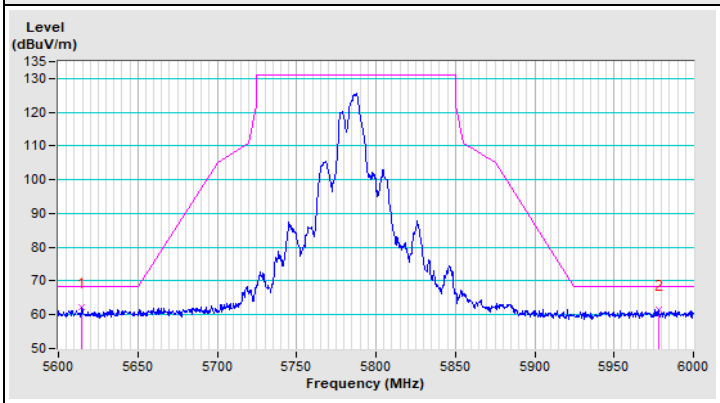


Horizontal (Peak)

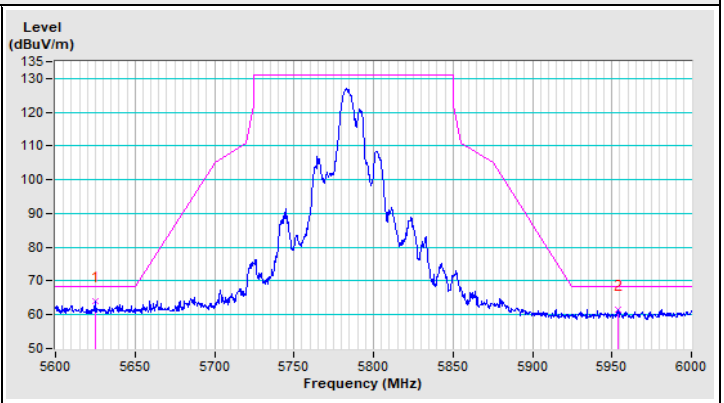


Vertical (Peak)

802.11a Channel 157

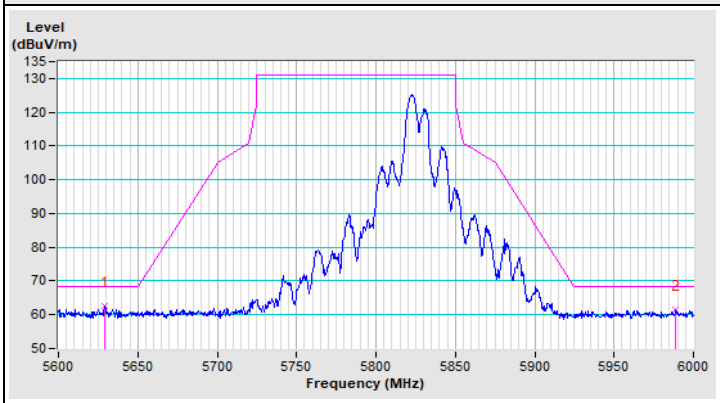


Horizontal (Peak)

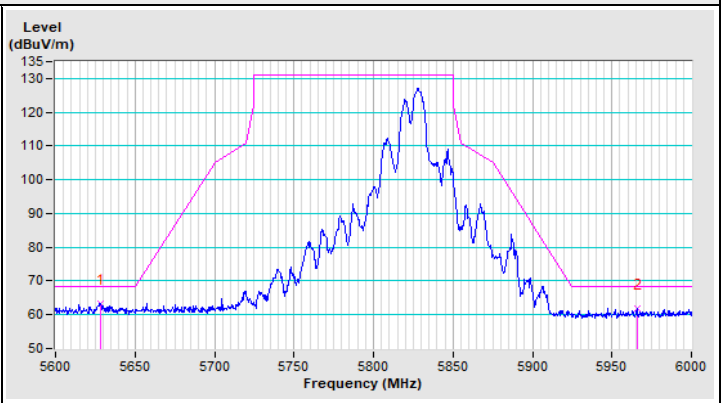


Vertical (Peak)

802.11a Channel 165



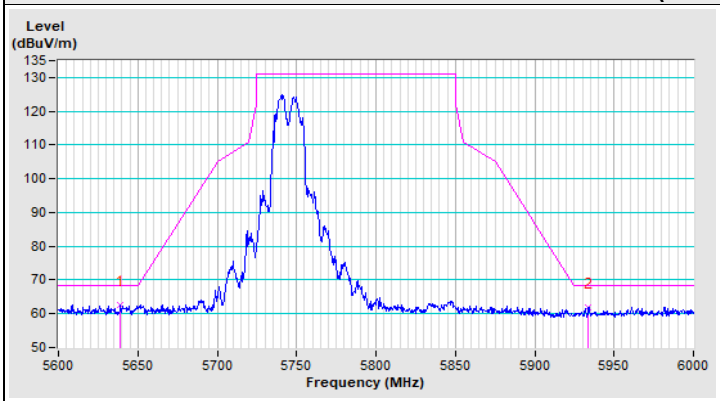
Horizontal (Peak)



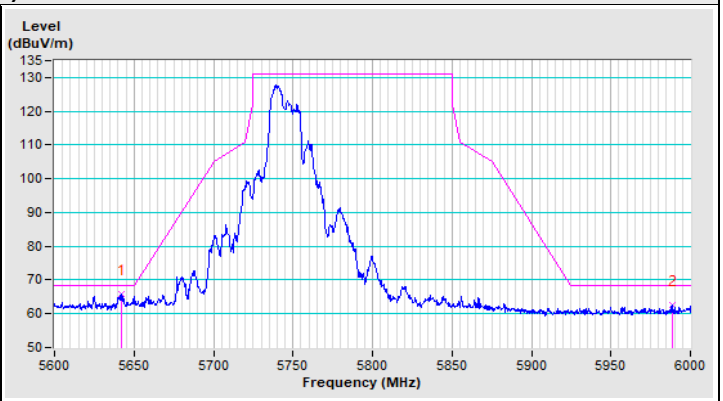
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11ax (HE20) Channel 149

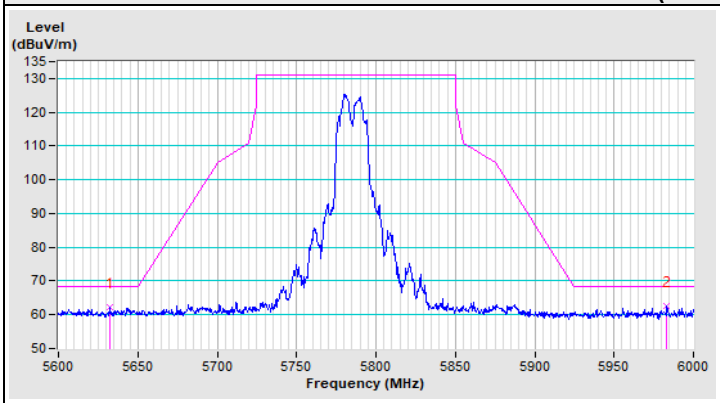


Horizontal (Peak)

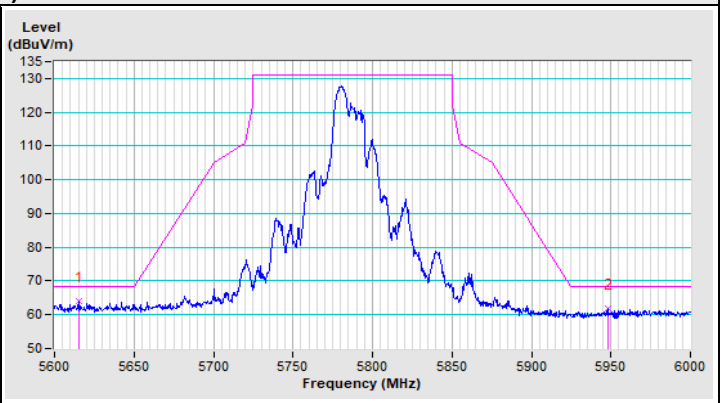


Vertical (Peak)

802.11ax (HE20) Channel 157

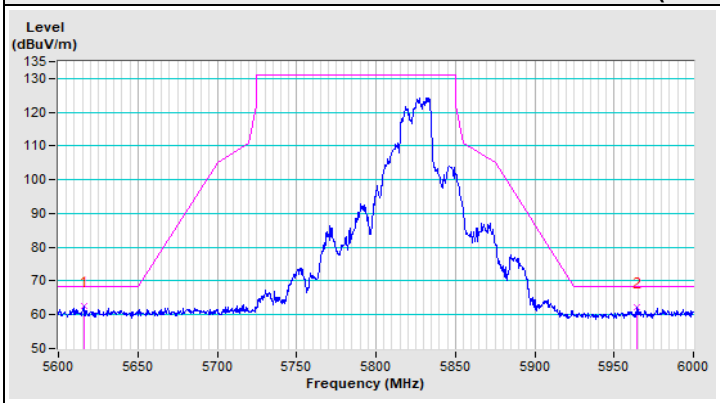


Horizontal (Peak)

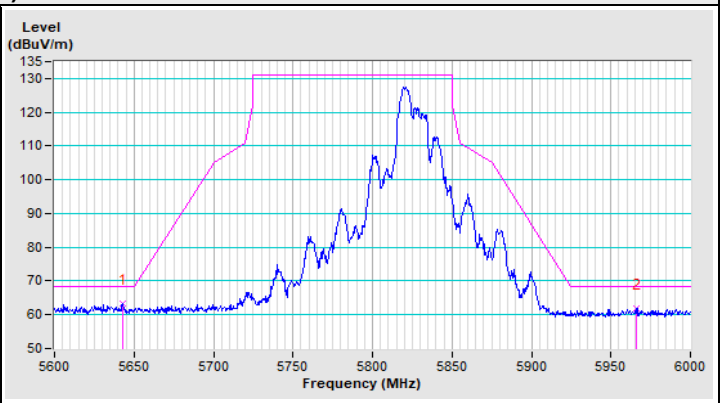


Vertical (Peak)

802.11ax (HE20) Channel 165



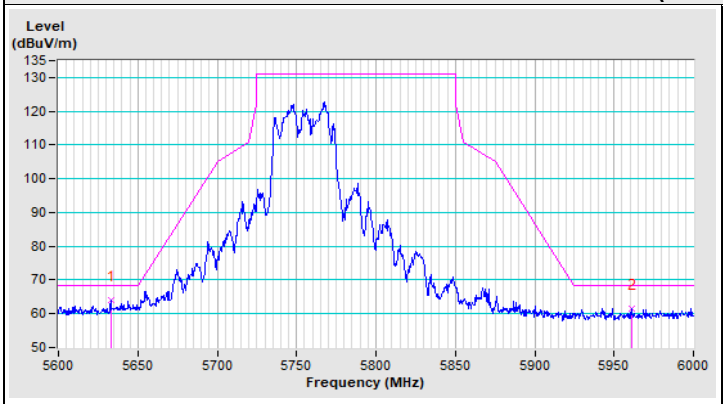
Horizontal (Peak)



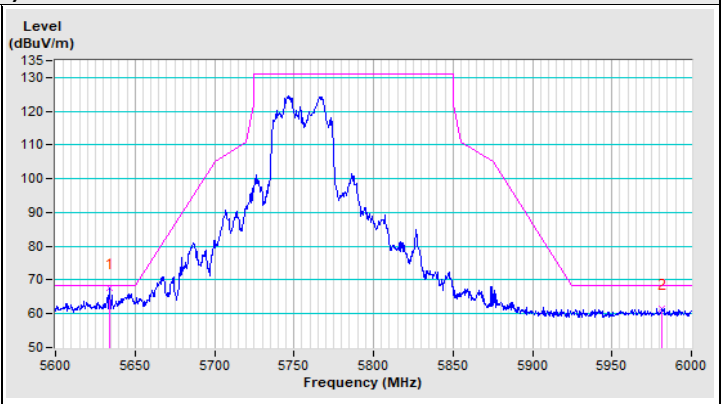
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11ax (HE40) Channel 151

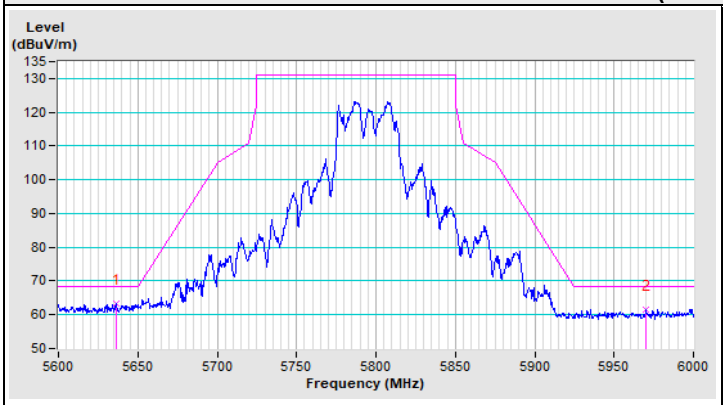


Horizontal (Peak)

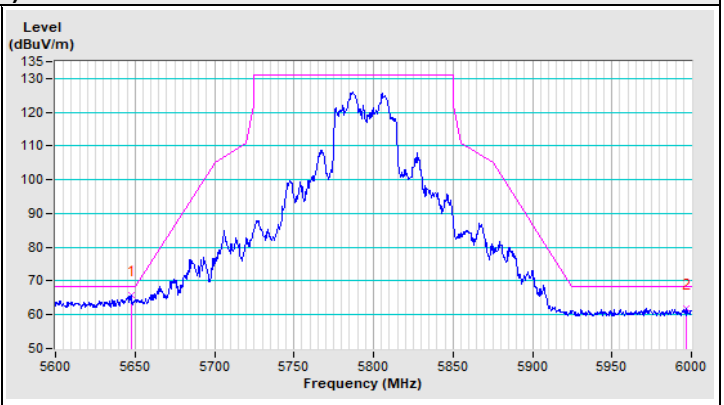


Vertical (Peak)

802.11ax (HE40) Channel 159



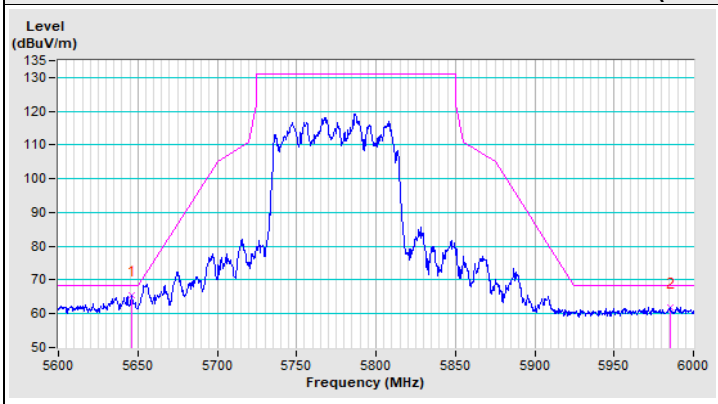
Horizontal (Peak)



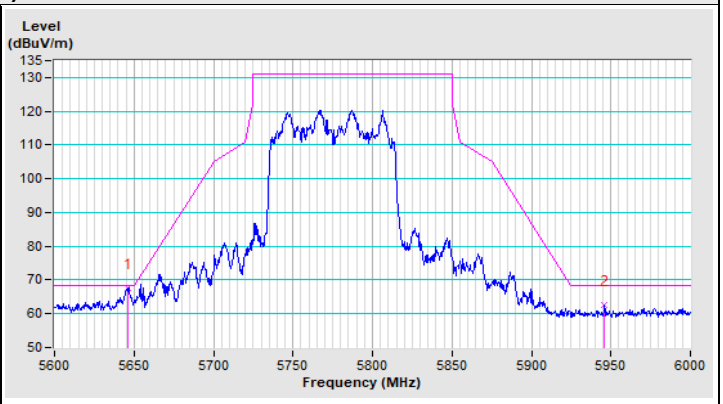
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11ax (HE80) Channel 155



Horizontal (Peak)



Vertical (Peak)

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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