

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBDDZ-WTW-P24050150-3

FCC ID: 2AA3N-RTR01

Product: PELOTON SCREEN

Brand: Peloton

Model No.: PLTN-RTR01

Received Date: 2024/5/8

Test Date: 2024/5/28 ~ 2024/7/8

Issued Date: 2025/4/17

Applicant: Peloton Interactive Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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Test Location(2): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan

Test Location(3): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

FCC Registration / Test Location:198487 / TW2021 for Test Location(1)

Designation Number: 788550 / TW0003 for Test Location(2)
281270 / TW0032 for Test Location(3)

Approved by:

Jeremy Lin

, Date:

2025/4/17

Jeremy Lin / Project Engineer

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Prepared by : Gina Liu / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBDDZ-WTW-P24050150-3	Original release.	2025/4/17

1 Certificate

Product: PELOTON SCREEN

Brand: Peloton

Test Model: PLTN-RTR01

Sample Status: Engineering sample

Applicant: Peloton Interactive Inc.

Test Date: 2024/5/28 ~ 2024/7/8

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

Measurement ANSI C63.10-2013

procedure: 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	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
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	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -15.77 dB at 0.29000 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -4.2 dB at 39.70 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 -0.2 dB at 5460.00 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The "Dynamic Frequency Selection measurement" was recorded in DFS test report.

2.1 Measurement Uncertainty

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

Parameter	Specification	Uncertainty (±)
26 dB Bandwidth	-	960 Hz
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	960 Hz
Occupied Bandwidth	-	960 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 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	PELTON SCREEN
Brand	Peloton
Test Model	PLTN-RTR01
Status of EUT	Engineering sample
Power Supply Rating	20 Vdc, 3.25A (adapter of Peloton Bike+)
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 1201.0 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.7 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 24 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 11 802.11ac (VHT80), 802.11ax (HE80): 5
Output Power	5.18 GHz ~ 5.24 GHz : 219.31 mW (23.41 dBm) 5.26 GHz ~ 5.32 GHz : 213.825 mW (23.3 dBm) 5.5 GHz ~ 5.7 GHz : 232.835 mW (23.67 dBm) 5.745 GHz ~ 5.825 GHz : 240.734 mW (23.82 dBm)
EUT Category	Client device

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	Brand	Model	Gain (dBi)				Antenna Type	Connector Type
			5.15~5.25GHz	5.25~5.35GHz	5.47~5.725GHz	5.725~5.85GHz		
1	AWAN	DQ610001501	2.65	2.65	1.98	3.46	Dipole	ipex(MHF)
2	AWAN	DQ610001600	3.1	3.1	2.86	2.79	Dipole	ipex(MHF)

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

2. The EUT incorporates a MIMO (CDD) function:

5 GHz Band		
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

Note:

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

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5700 MHz

11 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		

5 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		

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

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	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. 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:	The EUT is designed to be positioned on the Z-axis only.

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
26 dB Bandwidth	A	802.11a	CDD	52, 60, 64, 100, 116, 140	BPSK	6Mb/s
		802.11ax (HE20)	CDD	52, 60, 64, 100, 116, 140	BPSK	MCS0
		802.11ax (HE40)	CDD	54, 62, 102, 110, 134	BPSK	MCS0
		802.11ax (HE80)	CDD	58, 106, 122	BPSK	MCS0
RF Output Power	A	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 155	BPSK	MCS0
Power Spectral Density	A	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 155	BPSK	MCS0
6 dB Bandwidth	A	802.11a	CDD	149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	155	BPSK	MCS0
Occupied Bandwidth	A	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 155	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Frequency Stability	A	802.11a	CDD	36	unmodulated	-
AC Power Conducted Emissions	B	802.11a	CDD	149	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	B	802.11a	CDD	149	BPSK	6Mb/s
Unwanted Emissions above 1 GHz	A	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 155	BPSK	MCS0
EUT Configure Mode:	A	EUT without Peloton Bike+				
	B	EUT with Peloton Bike+				

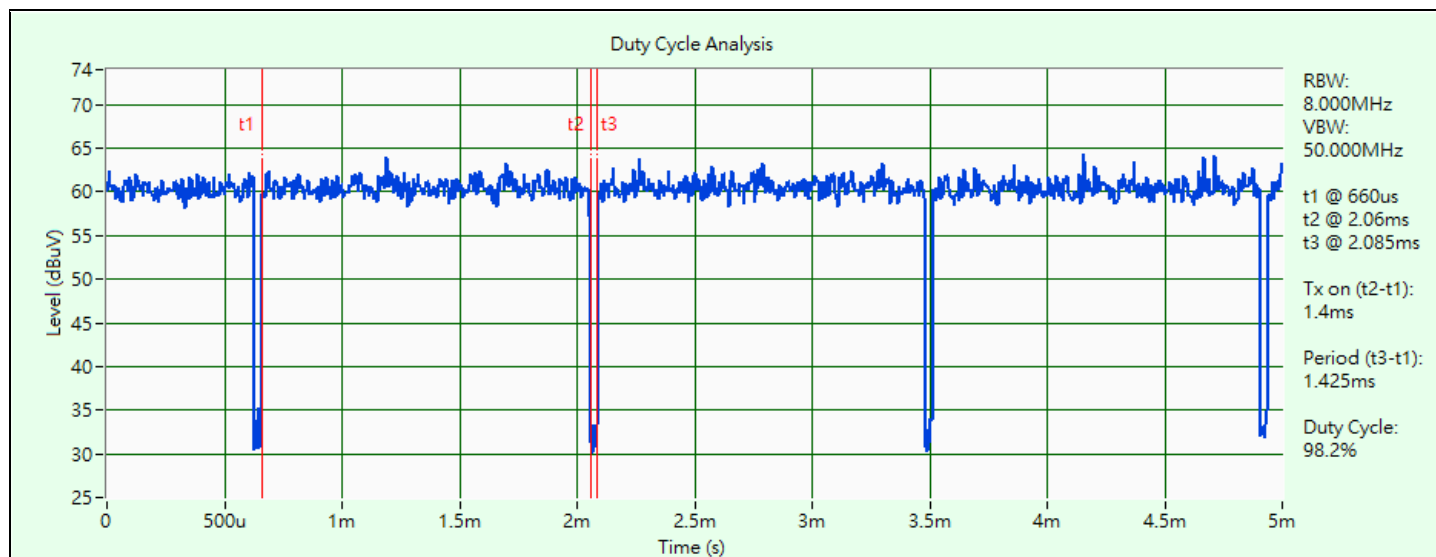
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 1.4 ms / 1.425 ms x 100% = 98.2%

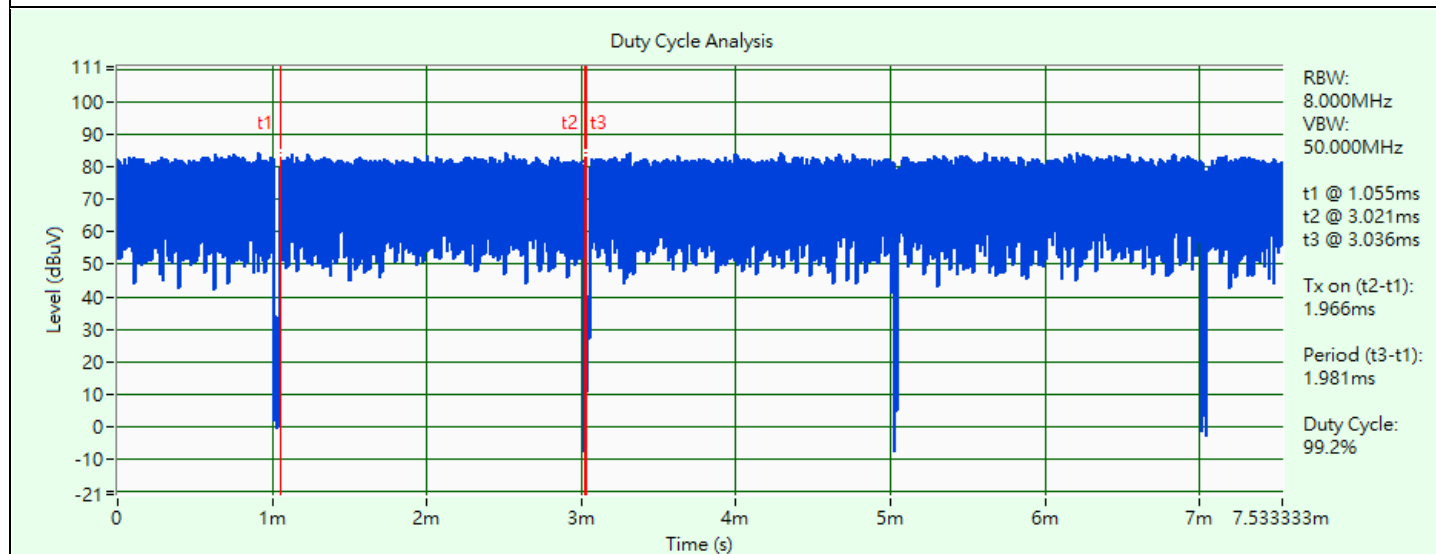
802.11ax (HE20): Duty cycle = 1.966 ms / 1.981 ms x 100% = 99.2%

802.11ax (HE40): Duty cycle = 3.88 ms / 3.9 ms x 100% = 99.5%

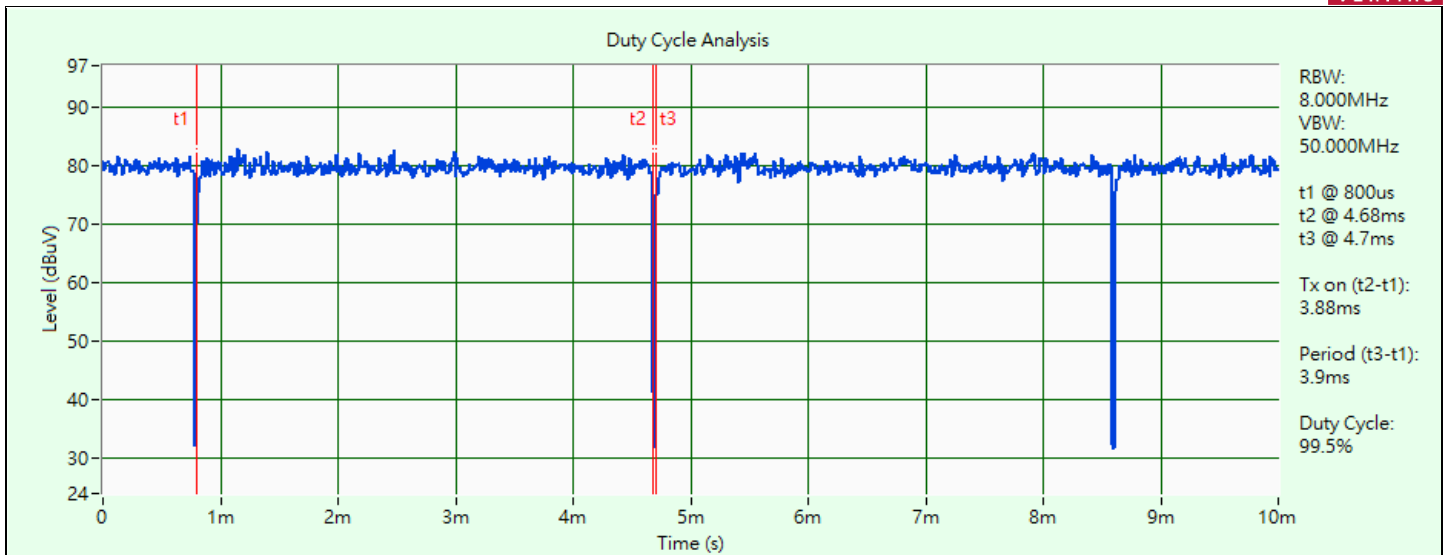
802.11ax (HE80): Duty cycle = 1.885 ms / 1.91 ms x 100% = 98.7%



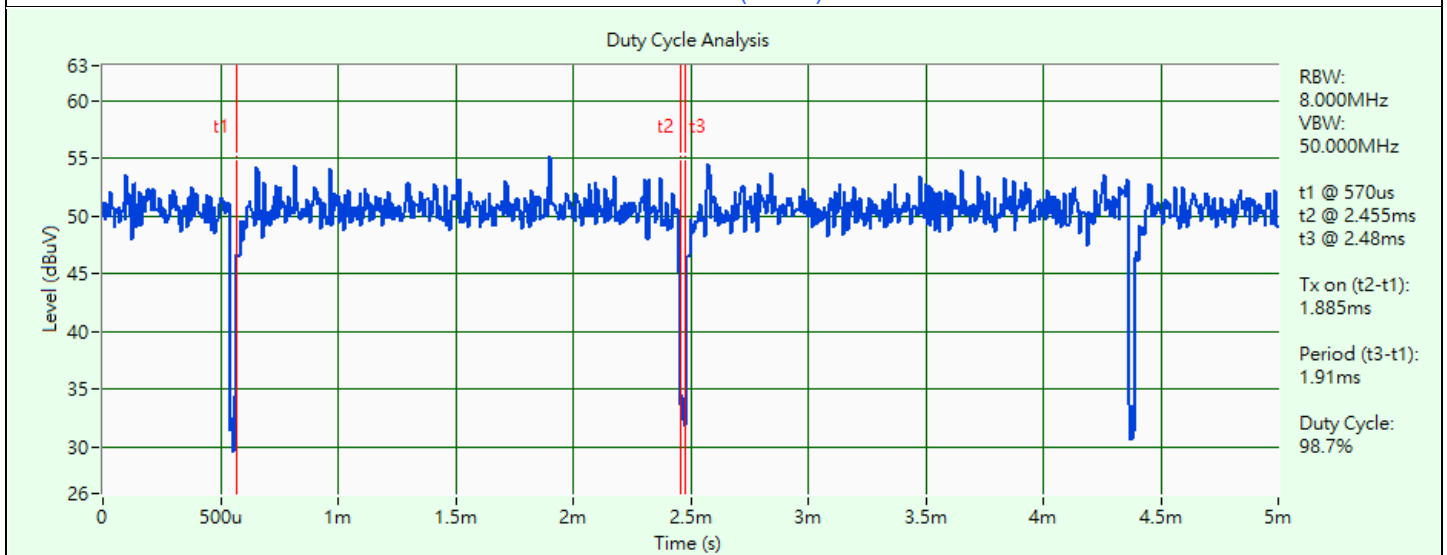
802.11a



802.11ax (HE20)



802.11ax (HE40)



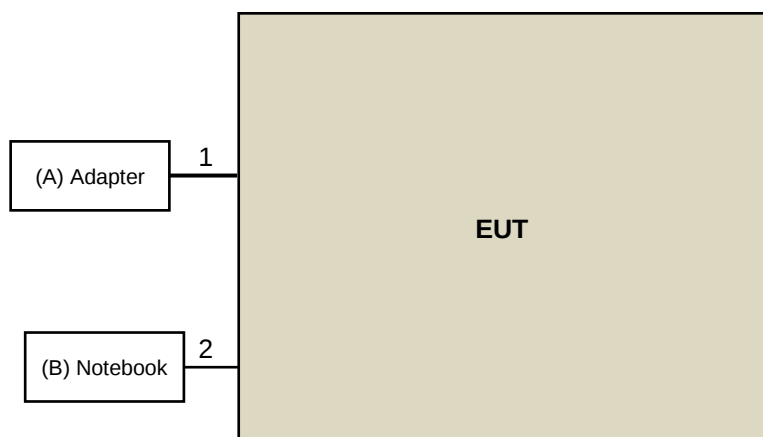
802.11ax (HE80)

3.6 Test Program Used and Operation Descriptions

Controlling software telnet v4.71 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

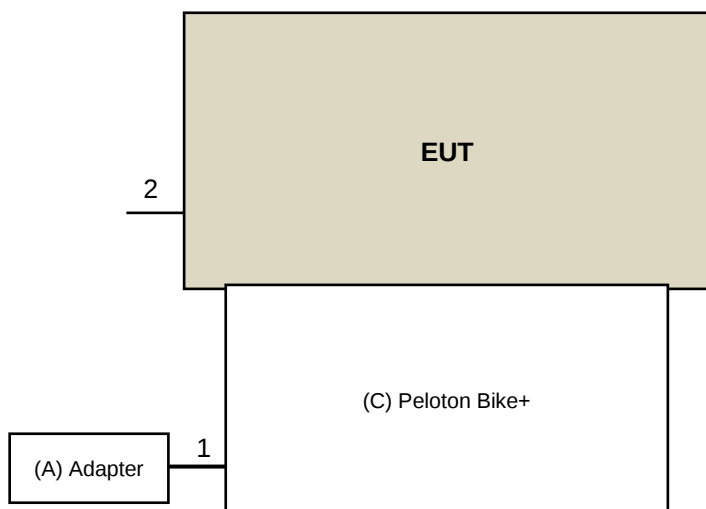
Mode A



----- **Under Table**

----- **Remote Site**

Mode B



Under Table

Remote Site

3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	Peloton	FSP065-APDC8R01	N/A	N/A	Supplied by applicant
B	Notesbook	Lenovo	L470	N/A	N/A	Provided by Lab
C	Peloton Bike+	Peloton	PL-02	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	AC Cable	1	2	No	0	Supplied by applicant
2	USB type C Cable	1	1	Yes	0	Provided by Lab

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030A	MY54490260	2023/7/13	2024/7/12
Signal Analyzer R&S	FSV40	101042	2023/9/5	2024/9/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2024/6/25

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Pulse Power Sensor Anritsu	MA2411B	0738404	2024/5/13	2025/5/12
RF Power Meter Anritsu	ML2495A	0842014	2024/5/13	2025/5/12
USB Wideband Power Sensor Keysight	U2021XA	U2021XA_001	2024/6/7	2025/6/6

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2024/6/25

4.3 Power Spectral Density

Refer to section 4.1 to get the tested date and information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Source Schaffner	Proflin2105- 208NSG1007	55616	N/A	N/A
PXA Signal Analyzer Keysight	N9030A	MY54490260	2023/7/13	2024/7/12
Signal Analyzer R&S	FSV40	101042	2023/9/5	2024/9/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	MHU-225AU	920409	2024/6/24	2025/6/23

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2024/6/25

4.7 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	ENV216	101826	2024/3/25	2025/3/24
	ESH3-Z5	100311	2023/9/6	2024/9/5
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: 2024/7/8

4.8 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: 2024/5/31

4.9 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: 2024/5/28 ~ 2024/5/30

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 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.

5.3 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

5.4 6 dB Bandwidth

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

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

5.7 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.

5.8 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).

5.9 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: 68.2 (dBμV/m) ^{*1}
	PK: 10 (dBm/MHz) ^{*2}	PK: 105.2 (dBμV/m) ^{*2}
	PK: 15.6 (dBm/MHz) ^{*3}	PK: 110.8 (dBμV/m) ^{*3}
	PK: 27 (dBm/MHz) ^{*4}	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.

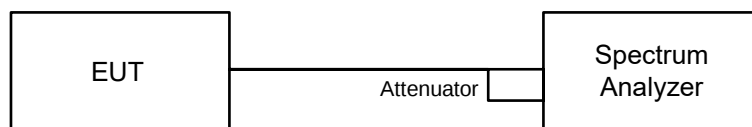
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

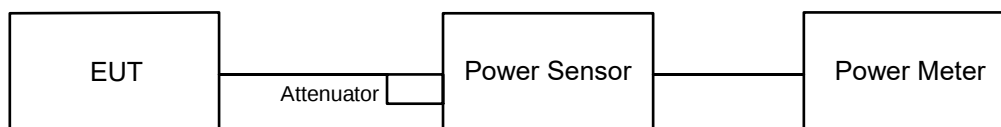


6.1.2 Test Procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6.2 RF Output Power

6.2.1 Test Setup

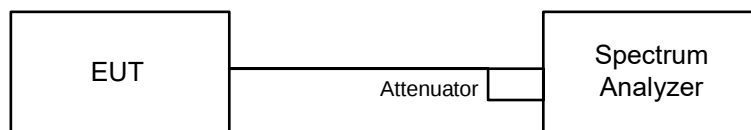


6.2.2 Test Procedure

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.

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

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

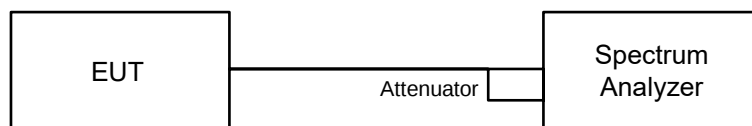
For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- 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 $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

6.4 6 dB Bandwidth

6.4.1 Test Setup

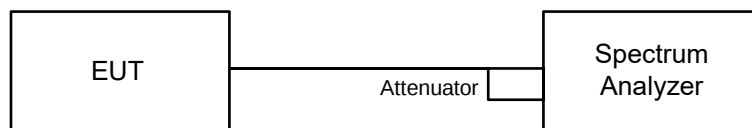


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

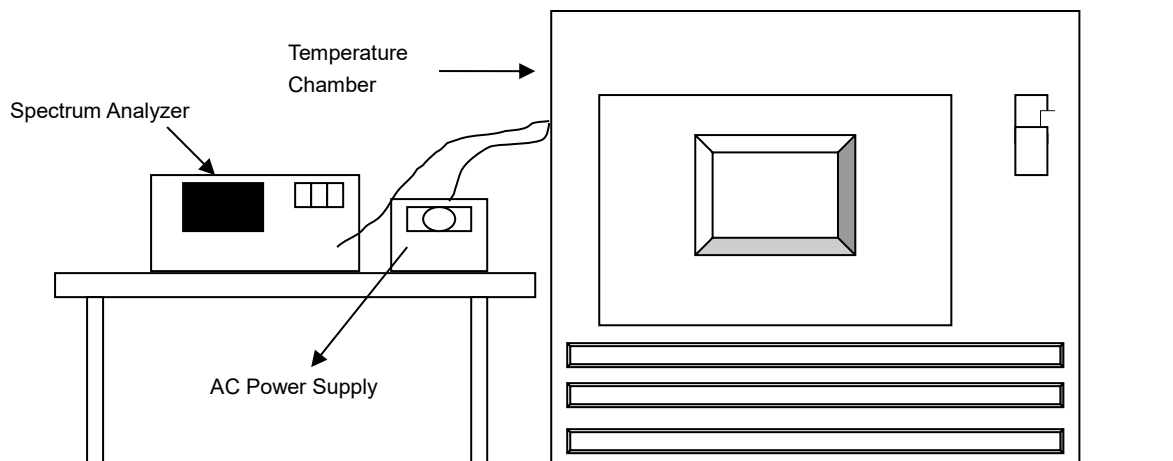


6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

6.6 Frequency Stability

6.6.1 Test Setup

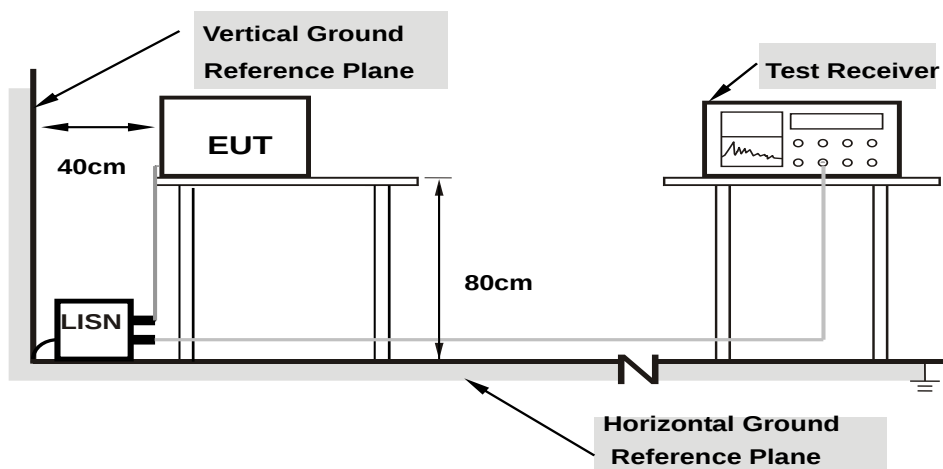


6.6.2 Test Procedure

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

6.7 AC Power Conducted Emissions

6.7.1 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).

6.7.2 Test Procedure

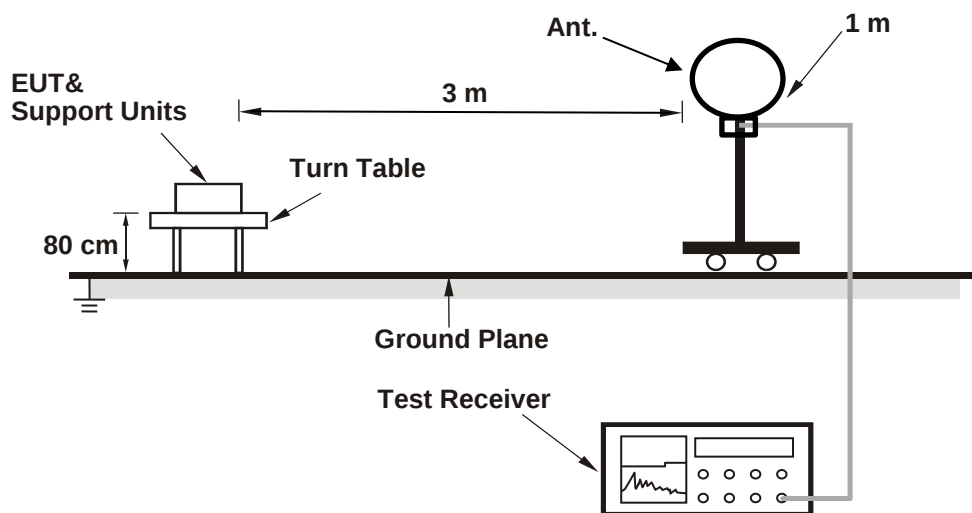
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

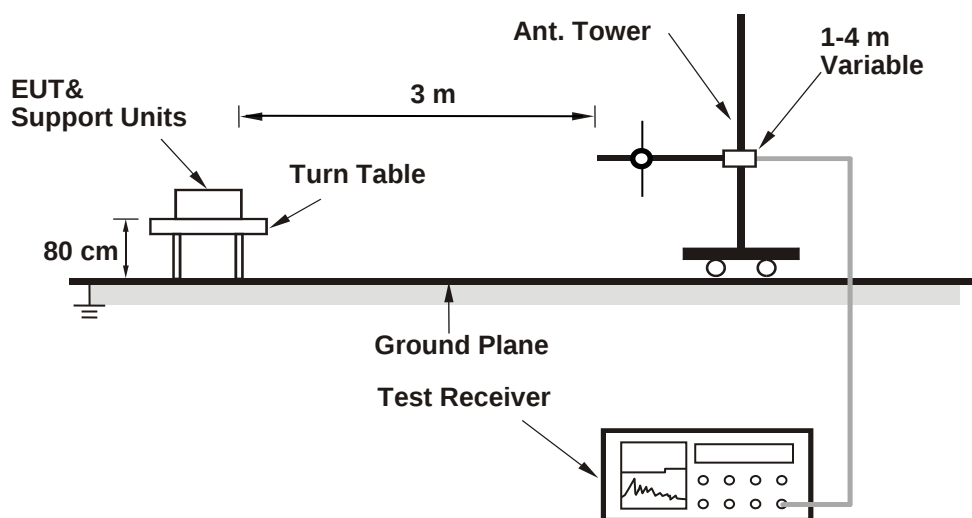
6.8 Unwanted Emissions below 1 GHz

6.8.1 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).

6.8.2 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

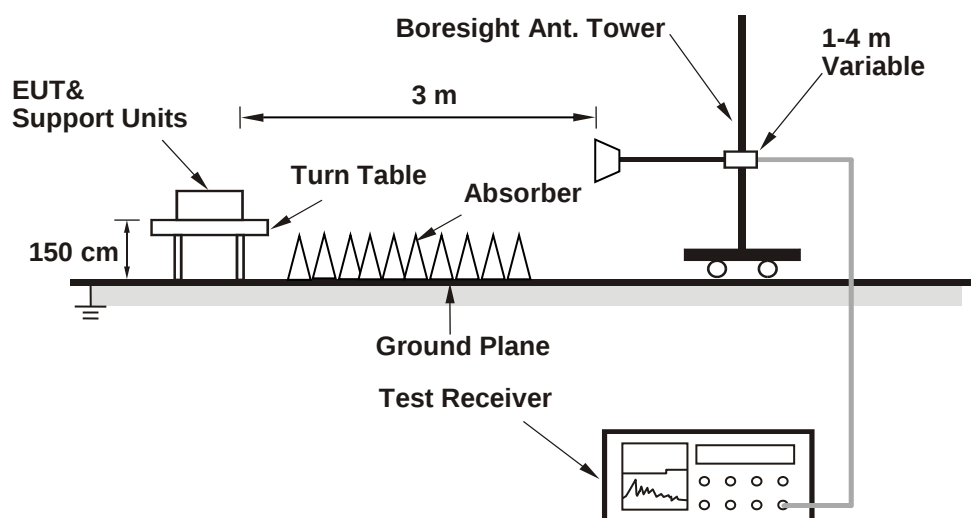
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



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

6.9.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	30.02	28.92
60	5300	26.81	26.50
64	5320	27.31	26.90
100	5500	28.48	27.07
116	5580	33.91	33.38
140	5700	27.19	27.47

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	28.92	25.61 > 24
60	5300	26.50	25.23 > 24
64	5320	26.90	25.29 > 24
100	5500	27.07	25.32 > 24
116	5580	33.38	26.23 > 24
140	5700	27.19	25.34 > 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	26.18	22.78
60	5300	23.14	22.60
64	5320	22.04	23.65
100	5500	22.03	23.82
116	5580	31.55	32.83
140	5700	22.55	22.97

Determined Output Power Limit				
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)	
52	5260	22.78	24.57	> 24
60	5300	22.60	24.54	> 24
64	5320	22.04	24.43	> 24
100	5500	22.03	24.43	> 24
116	5580	31.55	25.98	> 24
140	5700	22.55	24.53	> 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	40.09	40.02
62	5310	39.96	40.07
102	5510	40.01	39.96
110	5550	39.95	40.06
134	5670	40.03	40.07

Determined Output Power Limit				
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)	
54	5270	40.02	27.02	> 24
62	5310	39.96	27.01	> 24
102	5510	39.96	27.01	> 24
110	5550	39.95	27.01	> 24
134	5670	40.03	27.02	> 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE80)

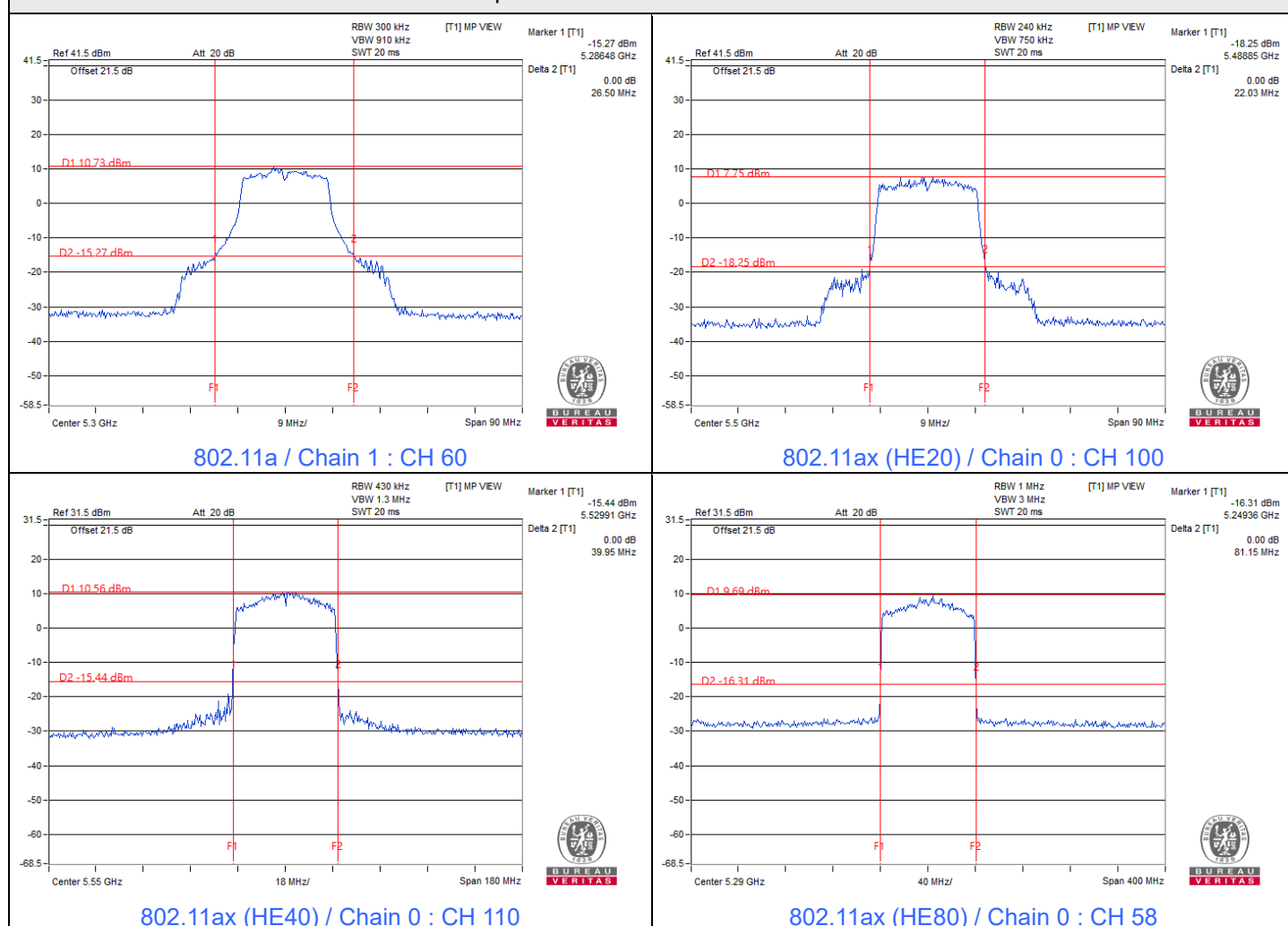
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	81.15	81.21
106	5530	81.30	81.35
122	5610	81.26	81.32

Determined Output Power Limit

Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)	
58	5290	81.15	30.09	> 24
106	5530	81.30	30.1	> 24
122	5610	81.26	30.09	> 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

Spectrum Plot of Minimum Value



7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	17.49	17.66	114.449	20.59	24	Pass
40	5200	17.84	18.03	124.347	20.95	24	Pass
48	5240	20.45	20.35	219.31	23.41	24	Pass
52	5260	20.34	20.24	213.825	23.30	24	Pass
60	5300	19.24	18.74	158.763	22.01	24	Pass
64	5320	16.40	16.58	89.15	19.50	24	Pass
100	5500	15.16	15.34	67.007	18.26	24	Pass
116	5580	20.70	20.62	232.835	23.67	24	Pass
140	5700	19.26	19.42	171.832	22.35	24	Pass
149	5745	20.83	20.78	240.734	23.82	30	Pass
157	5785	20.77	20.68	236.349	23.74	30	Pass
165	5825	20.78	20.72	237.706	23.76	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 2.86 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.46 dBi < 6 dBi, so the output power limit shall not be reduced.

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				
36	5180	16.58	16.74	92.705	19.67	24	Pass
40	5200	16.87	17.03	99.107	19.96	24	Pass
48	5240	19.46	19.38	175.004	22.43	24	Pass
52	5260	19.40	19.34	172.998	22.38	24	Pass
60	5300	16.40	16.57	89.046	19.50	24	Pass
64	5320	15.46	15.63	71.716	18.56	24	Pass
100	5500	15.99	16.12	80.645	19.07	24	Pass
116	5580	20.57	20.68	230.975	23.64	24	Pass
140	5700	17.50	17.67	114.713	20.60	24	Pass
149	5745	19.67	19.61	184.094	22.65	30	Pass
157	5785	20.05	19.98	200.698	23.03	30	Pass
165	5825	19.72	19.63	185.589	22.69	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 2.86 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.46 dBi < 6 dBi, so the output power limit shall not be reduced.

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				
38	5190	15.93	16.10	79.912	19.03	24	Pass
46	5230	18.10	18.28	131.863	21.20	24	Pass
54	5270	19.16	19.41	169.711	22.30	24	Pass
62	5310	14.94	15.11	63.623	18.04	24	Pass
102	5510	16.00	16.13	80.831	19.08	24	Pass
110	5550	17.75	17.90	121.226	20.84	24	Pass
134	5670	18.68	18.86	150.703	21.78	24	Pass
151	5755	19.70	19.62	184.947	22.67	30	Pass
159	5795	20.16	20.08	205.612	23.13	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 2.86 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.46 dBi < 6 dBi, so the output power limit shall not be reduced.

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				
42	5210	14.93	15.08	63.328	18.02	24	Pass
58	5290	14.40	14.94	58.731	17.69	24	Pass
106	5530	15.03	14.78	61.903	17.92	24	Pass
122	5610	17.64	17.82	118.611	20.74	24	Pass
155	5775	19.99	20.17	203.762	23.09	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 2.86 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.46 dBi < 6 dBi, so the output power limit shall not be reduced.

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	4.86	5.20	8.04	11	Pass
40	5200	4.93	5.42	8.19	11	Pass
48	5240	6.85	6.46	9.67	11	Pass
52	5260	6.10	6.32	9.22	11	Pass
60	5300	5.97	6.42	9.21	11	Pass
64	5320	3.96	4.40	7.20	11	Pass
100	5500	2.93	3.30	6.13	11	Pass
116	5580	7.74	6.82	10.31	11	Pass
140	5700	5.73	5.98	8.87	11	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.89 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.89 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.44 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	3.21	3.22	6.23	11	Pass
40	5200	3.69	3.81	6.76	11	Pass
48	5240	5.35	5.15	8.26	11	Pass
52	5260	5.18	5.07	8.14	11	Pass
60	5300	3.86	3.87	6.88	11	Pass
64	5320	2.73	2.82	5.79	11	Pass
100	5500	3.38	3.35	6.38	11	Pass
116	5580	5.75	5.77	8.77	11	Pass
140	5700	4.17	4.36	7.28	11	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.89 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.89 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.44 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	0.51	0.51	3.52	11	Pass
46	5230	2.58	2.62	5.61	11	Pass
54	5270	4.18	4.26	7.23	11	Pass
62	5310	0.00	0.01	3.02	11	Pass
102	5510	0.62	0.69	3.67	11	Pass
110	5550	1.83	1.87	4.86	11	Pass
134	5670	3.45	3.55	6.51	11	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.89 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.89 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.44 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	-3.79	-3.72	-0.74	11	Pass
58	5290	-3.64	-3.72	-0.67	11	Pass
106	5530	-2.84	-2.98	0.10	11	Pass
122	5610	0.54	0.39	3.48	11	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.89 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.89 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.44 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11a

Tx chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	149	5745	-1.19	1.03	3.01	4.04	29.86	Pass
	157	5785	-1.25	0.97	3.01	3.98	29.86	Pass
	165	5825	-1.22	1	3.01	4.01	29.86	Pass
Chain 1	149	5745	-1.29	0.93	3.01	3.94	29.86	Pass
	157	5785	-0.9	1.32	3.01	4.33	29.86	Pass
	165	5825	-1.49	0.73	3.01	3.74	29.86	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 6.14 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.14 - 6) = 29.86$ dBm/500kHz.

802.11ax (HE20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	149	5745	-3.18	-0.96	3.01	2.05	29.86	Pass
	157	5785	-2.85	-0.63	3.01	2.38	29.86	Pass
	165	5825	-3.21	-0.99	3.01	2.02	29.86	Pass
Chain 1	149	5745	-3.12	-0.9	3.01	2.11	29.86	Pass
	157	5785	-3.12	-0.9	3.01	2.11	29.86	Pass
	165	5825	-3.2	-0.98	3.01	2.03	29.86	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}})^2 / 2]$
3. For U-NII-3, the directional gain is 6.14 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.14 - 6) = 29.86$ dBm/500kHz.

802.11ax (HE40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	151	5755	-5.05	-2.83	3.01	0.18	29.86	Pass
	159	5795	-5.13	-2.91	3.01	0.1	29.86	Pass
Chain 1	151	5755	-5.18	-2.96	3.01	0.05	29.86	Pass
	159	5795	-4.9	-2.68	3.01	0.33	29.86	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}})^2 / 2]$
3. For U-NII-3, the directional gain is 6.14 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.14 - 6) = 29.86$ dBm/500kHz.

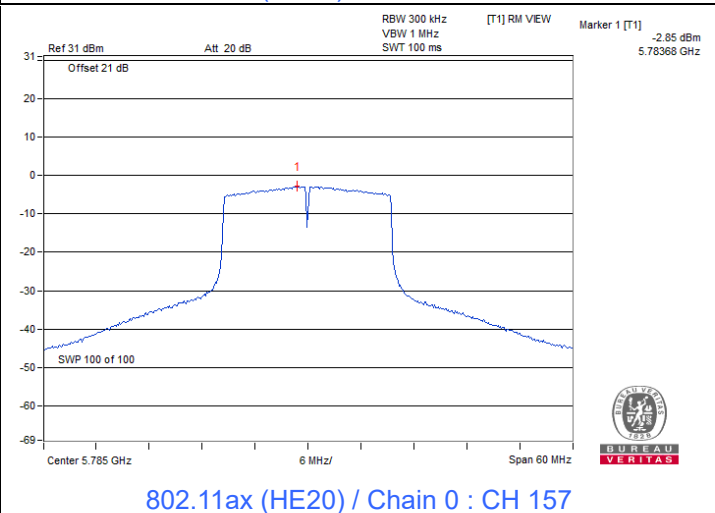
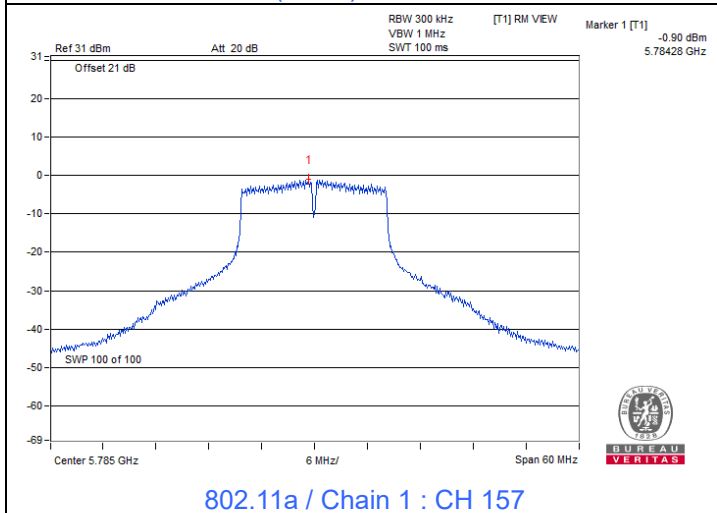
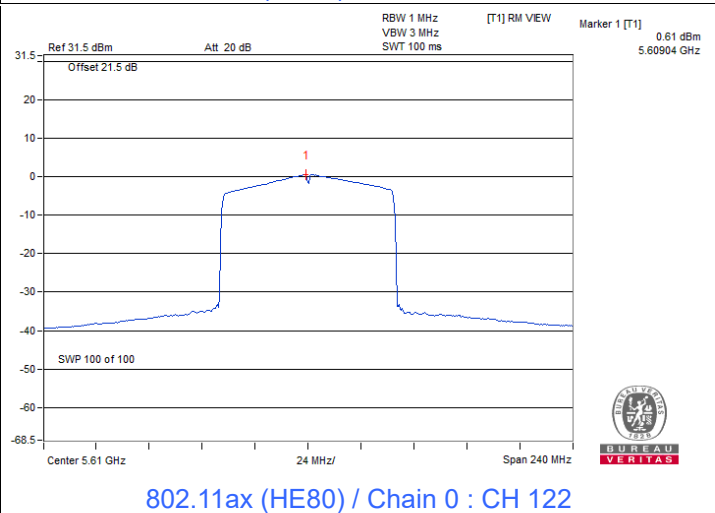
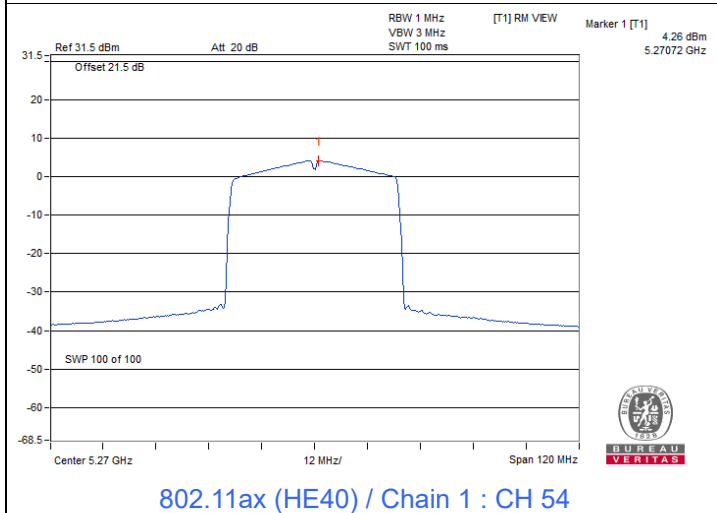
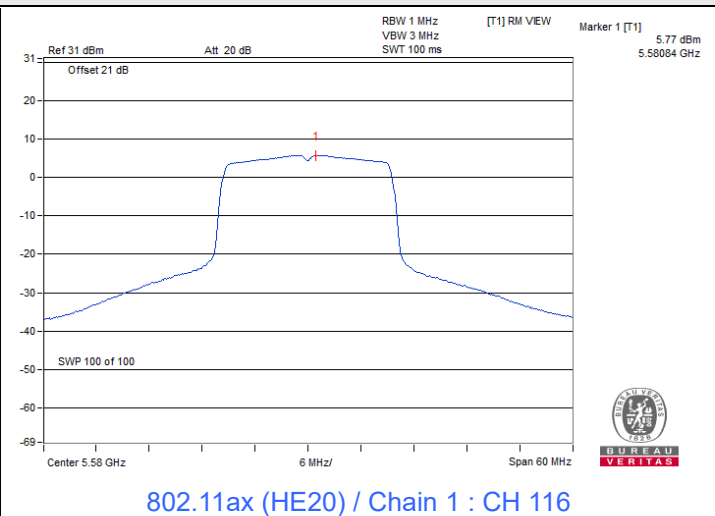
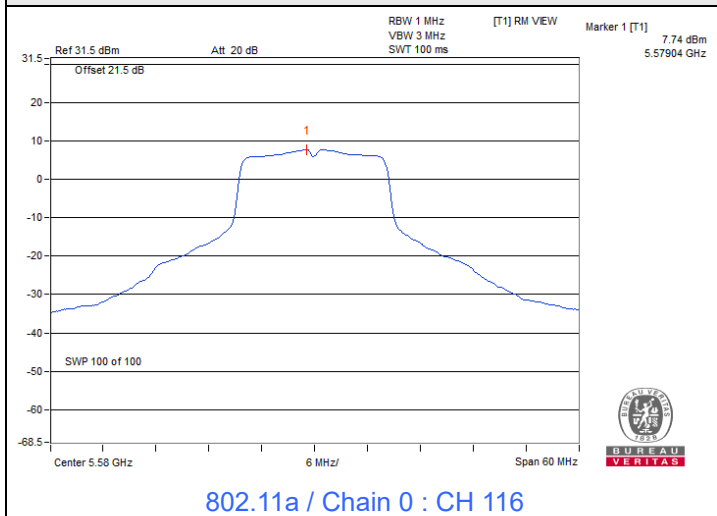
802.11ax (HE80)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	155	5775	-8.43	-6.21	3.01	-3.2	29.86	Pass
Chain 1	155	5775	-8.28	-6.06	3.01	-3.05	29.86	Pass

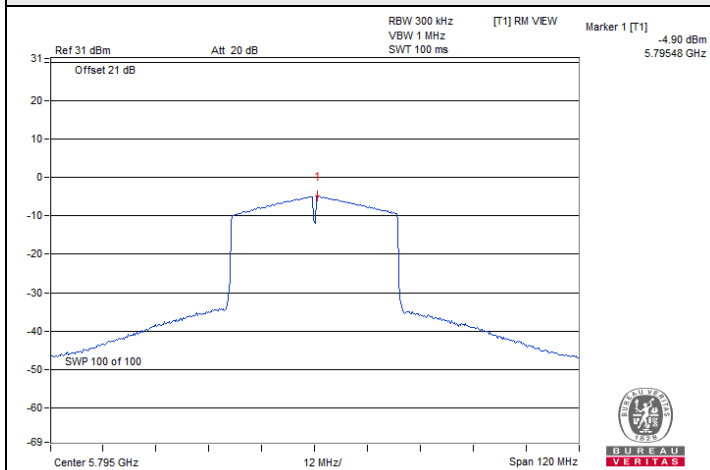
Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}})^2 / 2]$
3. For U-NII-3, the directional gain is 6.14 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.14 - 6) = 29.86$ dBm/500kHz.

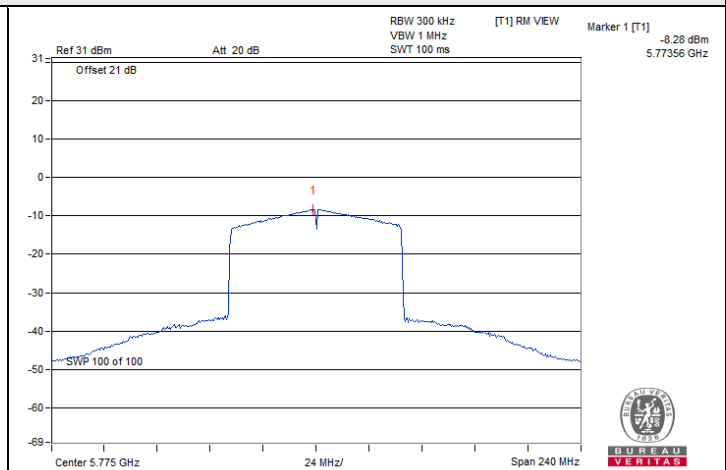
Spectrum Plot of Maximum Value



Spectrum Plot of Maximum Value



802.11ax (HE40) / Chain 1 : CH 159



802.11ax (HE80) / Chain 1 : CH 155

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	16.08	16.11	0.5	Pass
157	5785	16.12	16.11	0.5	Pass
165	5825	16.11	16.14	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	18.92	18.90	0.5	Pass
157	5785	18.94	18.93	0.5	Pass
165	5825	18.92	18.99	0.5	Pass

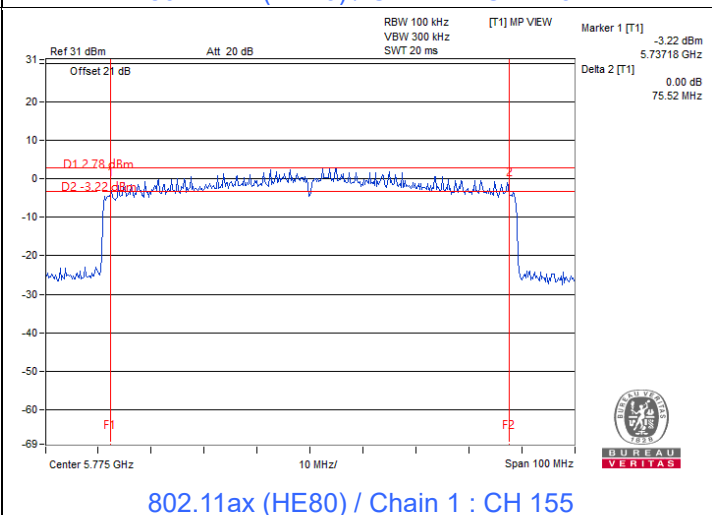
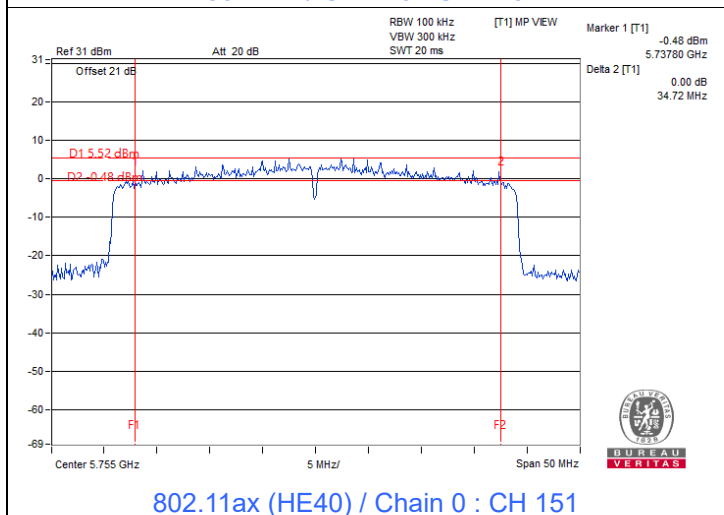
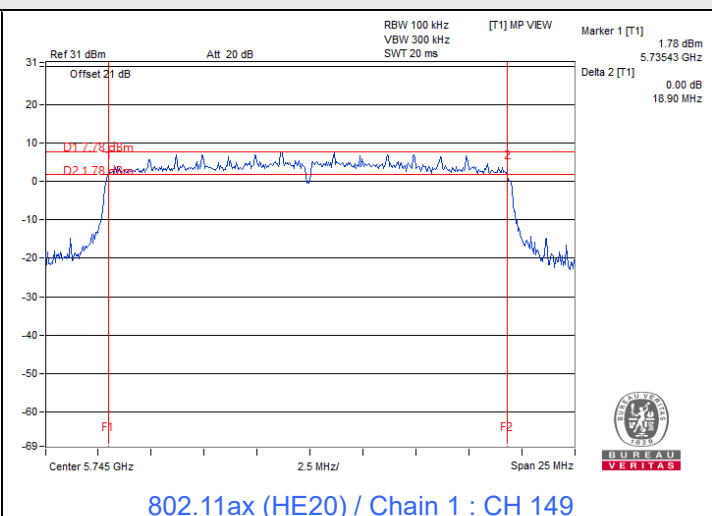
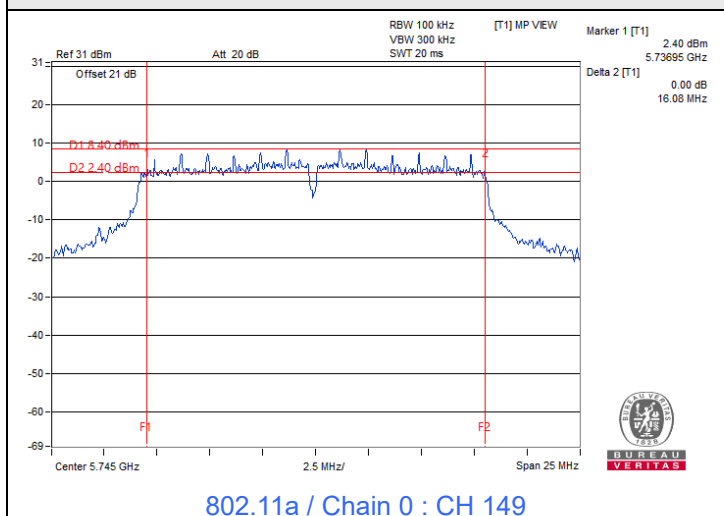
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
151	5755	34.72	35.46	0.5	Pass
159	5795	35.31	35.55	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
155	5775	75.56	75.52	0.5	Pass

Spectrum Plot of Minimum Value



7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.76	17.88
40	5200	18.00	17.88
48	5240	17.16	17.16
52	5260	18.12	18.12
60	5300	18.00	18.12
64	5320	18.12	18.12
100	5500	18.00	18.00
116	5580	19.08	18.60
140	5700	17.88	18.00
149	5745	18.52	18.48
157	5785	18.84	18.72
165	5825	18.72	18.36

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.20	19.08
40	5200	19.20	18.96
48	5240	18.96	18.96
52	5260	19.20	19.20
60	5300	19.08	19.20
64	5320	19.08	19.08
100	5500	19.08	19.08
116	5580	19.20	19.20
140	5700	19.20	19.20
149	5745	19.20	19.08
157	5785	19.20	19.20
165	5825	19.20	19.20

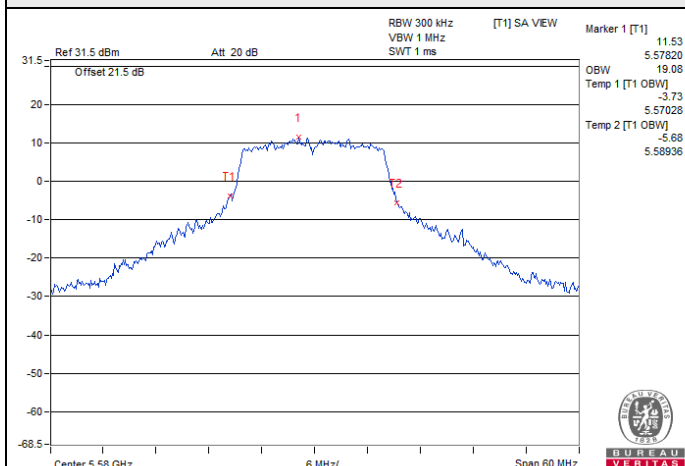
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	38.16	38.16
46	5230	37.68	37.68
54	5270	37.68	37.68
62	5310	38.16	38.16
102	5510	38.16	38.16
110	5550	38.16	37.68
134	5670	38.64	37.92
151	5755	37.92	38.16
159	5795	37.92	38.16

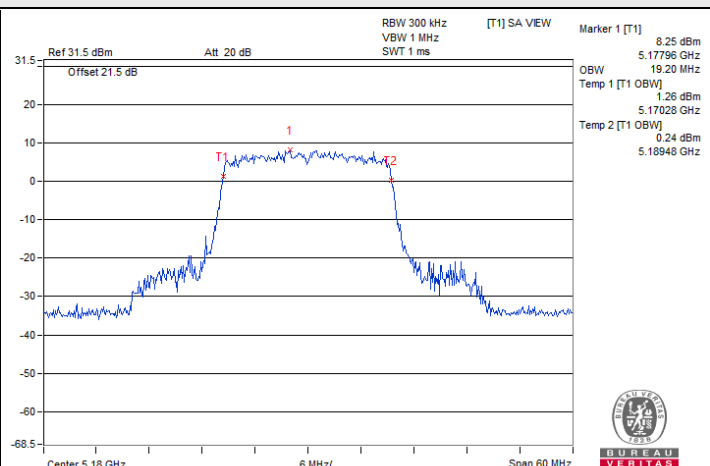
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	78.24	76.80
58	5290	76.80	77.28
106	5530	76.80	77.28
122	5610	77.28	76.80
155	5775	77.28	77.76

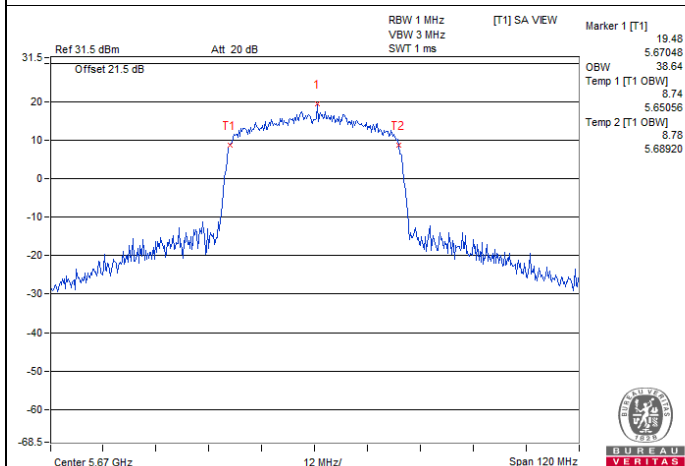
Spectrum Plot of Maximum Value



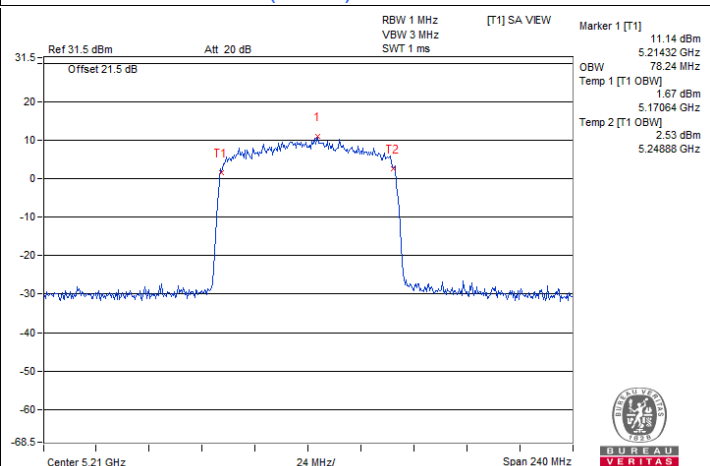
802.11a / Chain 0 : CH 116



802.11ax (HE20) / Chain 0 : CH 36

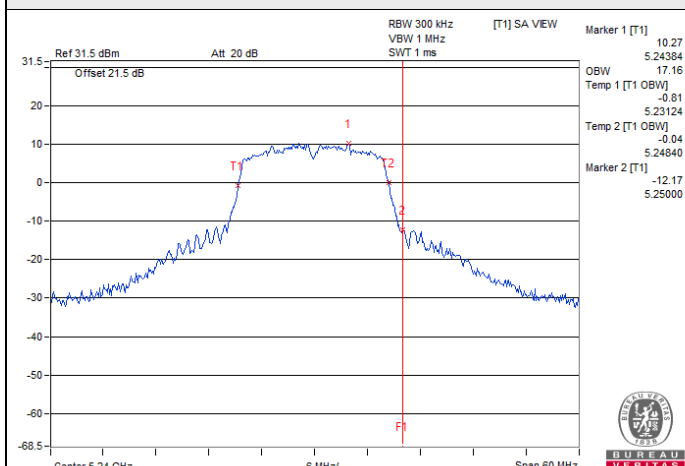


802.11ax (HE40) / Chain 0 : CH 134

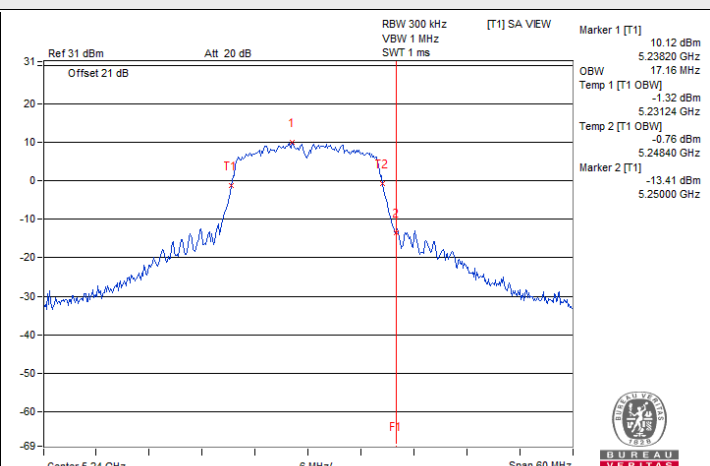


802.11ax (HE80) / Chain 0 : CH 42

Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)

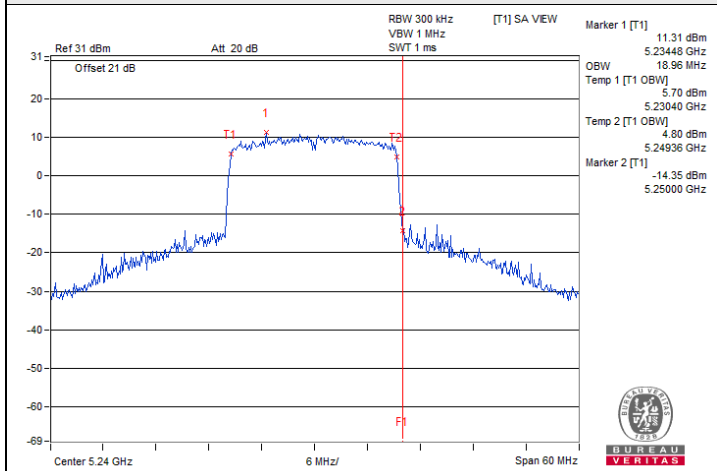


802.11a / Chain 0 : CH 48

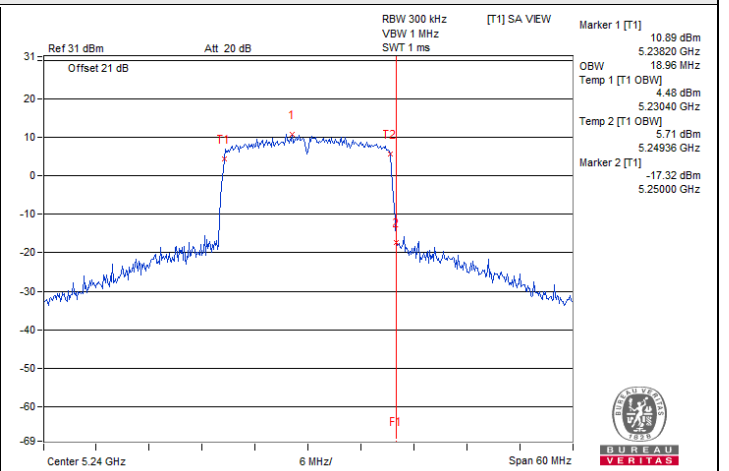


802.11a / Chain 1 : CH 48

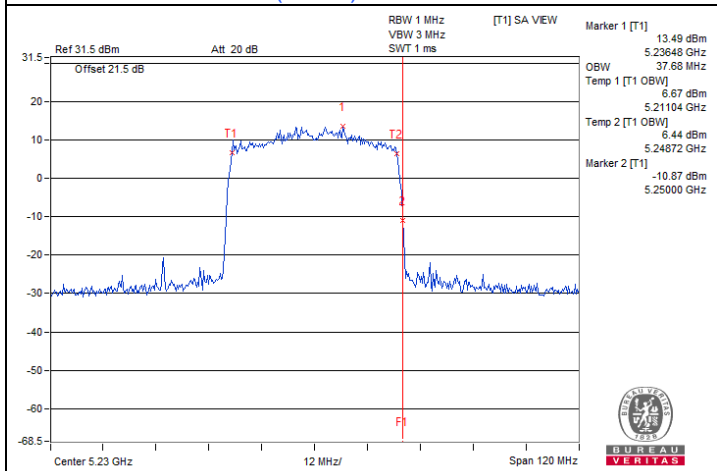
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



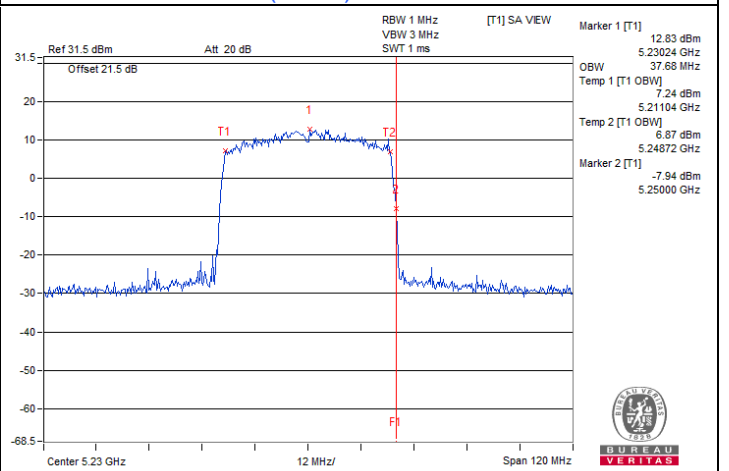
802.11ax (HE20) / Chain 0 : CH 48



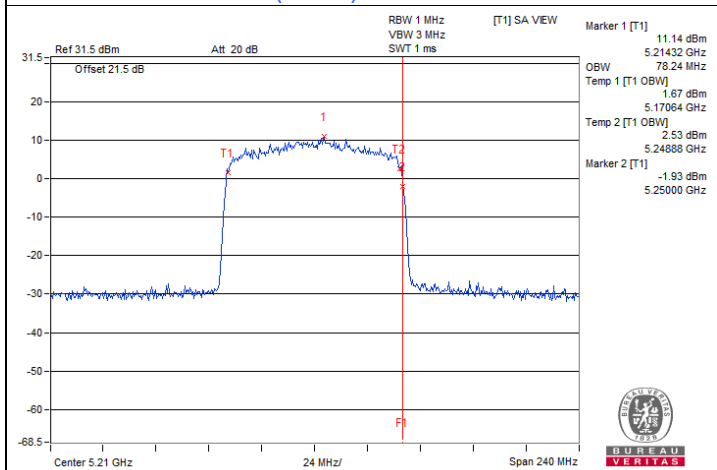
802.11ax (HE20) / Chain 1 : CH 48



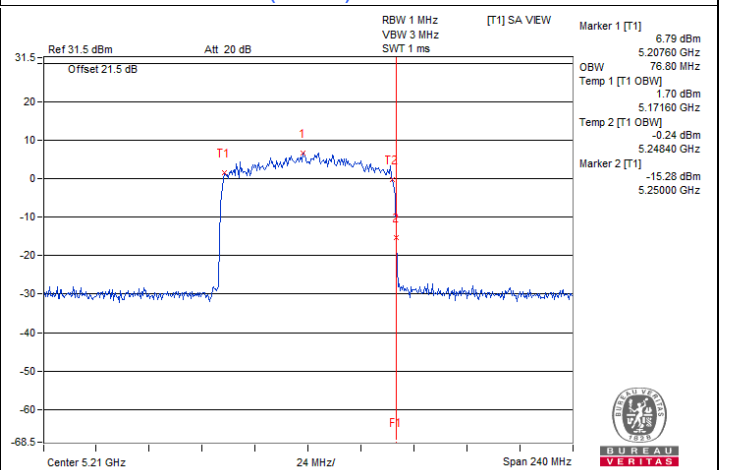
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46

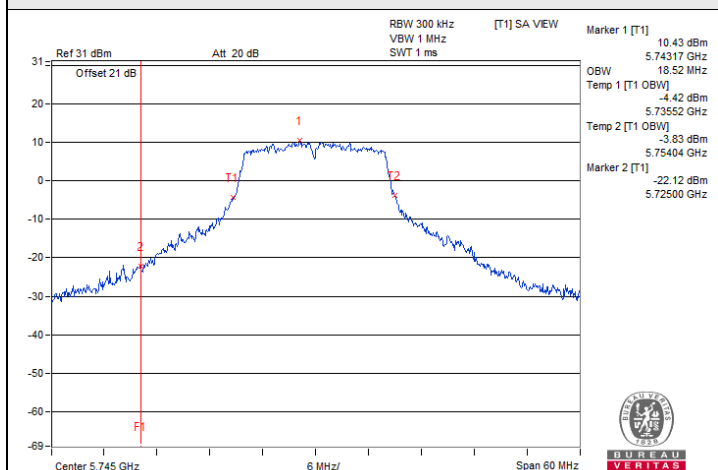


802.11ax (HE80) / Chain 0 : CH 42

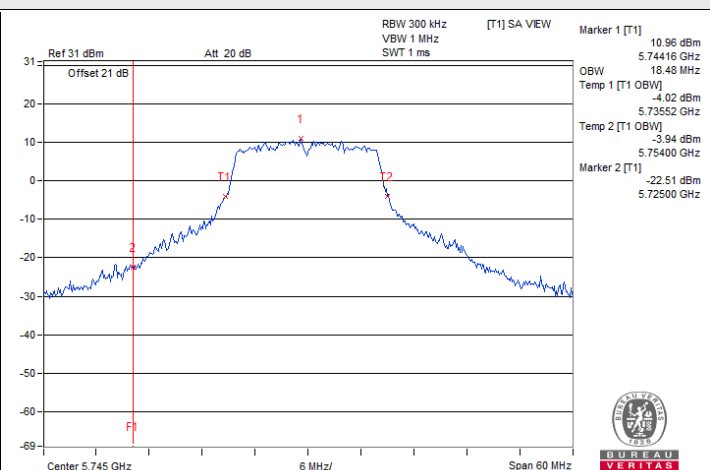


802.11ax (HE80) / Chain 1 : CH 42

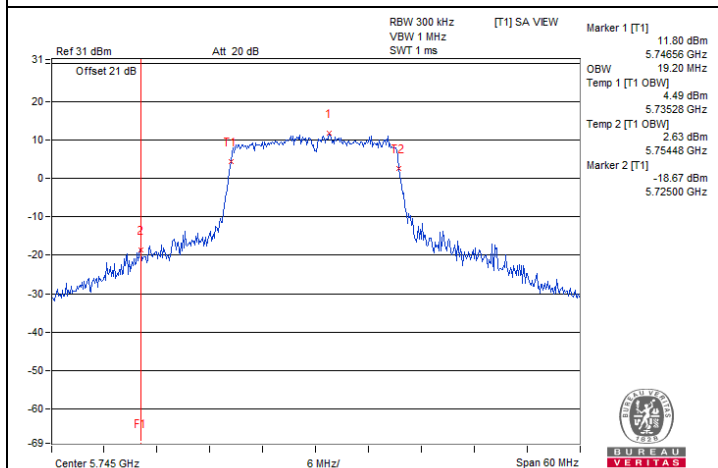
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



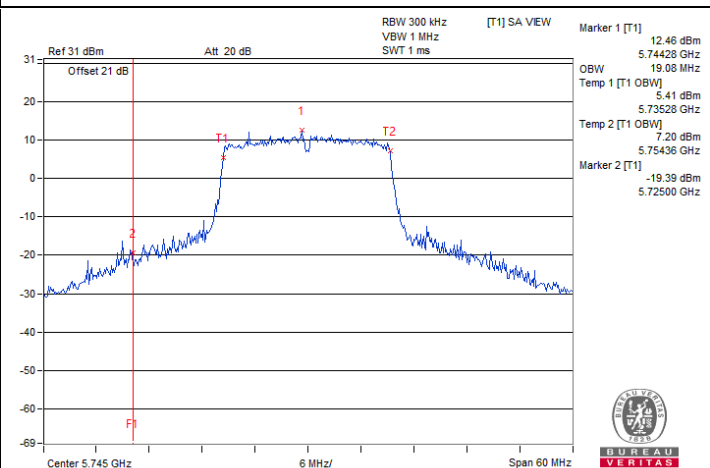
802.11a / Chain 0 : CH 149



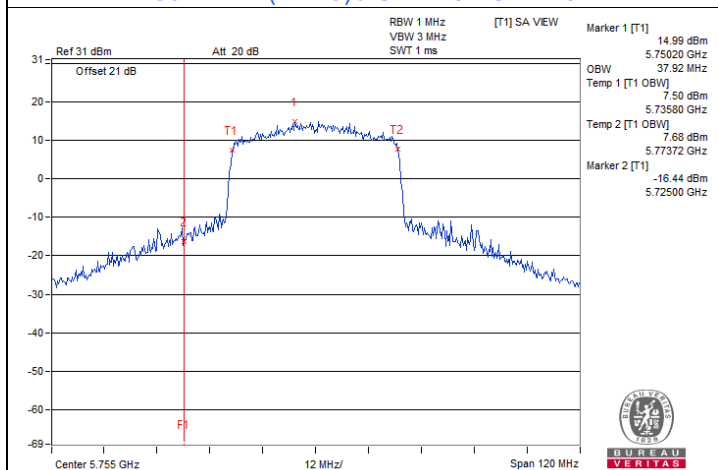
802.11a / Chain 1 : CH 149



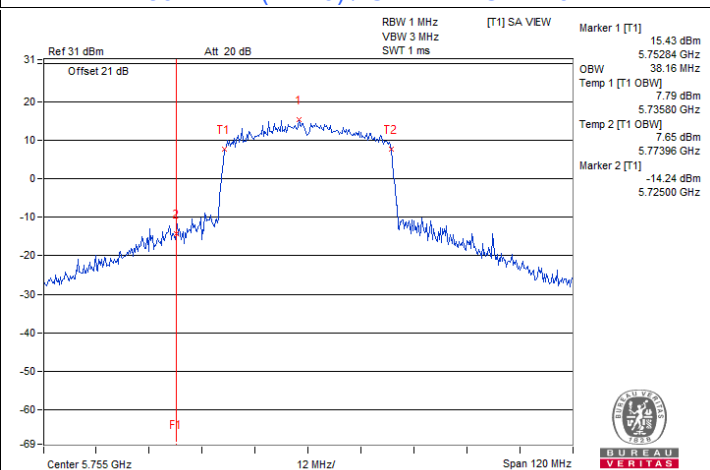
802.11ax (HE20) / Chain 0 : CH 149



802.11ax (HE20) / Chain 1 : CH 149

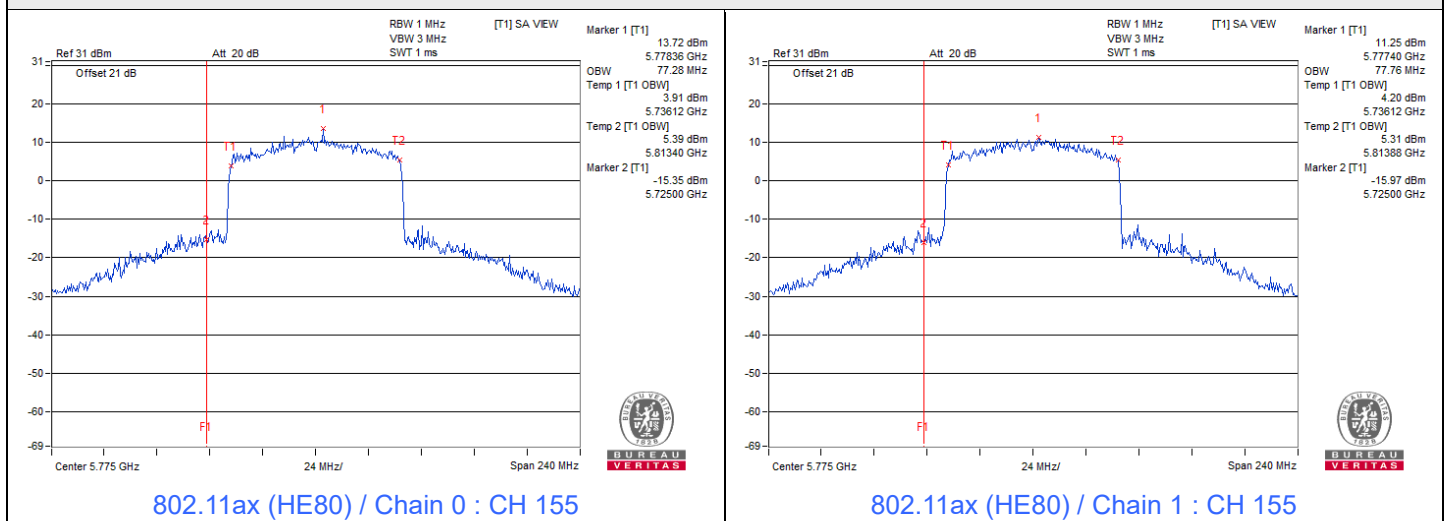


802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151

Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
40	120	5180.0013	Pass	5180.0023	Pass	5180.0017	Pass	5179.9995	Pass
30	120	5180.0049	Pass	5180.0069	Pass	5180.0089	Pass	5180.0083	Pass
20	120	5179.9951	Pass	5179.996	Pass	5179.9961	Pass	5179.9997	Pass
10	120	5179.9776	Pass	5179.9769	Pass	5179.9776	Pass	5179.9755	Pass
0	120	5180.0051	Pass	5180.0067	Pass	5180.0071	Pass	5180.0022	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5180.0014	Pass	5180.0029	Pass	5180.0022	Pass	5180.0006	Pass
	120	5179.9951	Pass	5179.996	Pass	5179.9961	Pass	5179.9997	Pass
	102	5180.0037	Pass	5180.0006	Pass	5180.0034	Pass	5180.0039	Pass

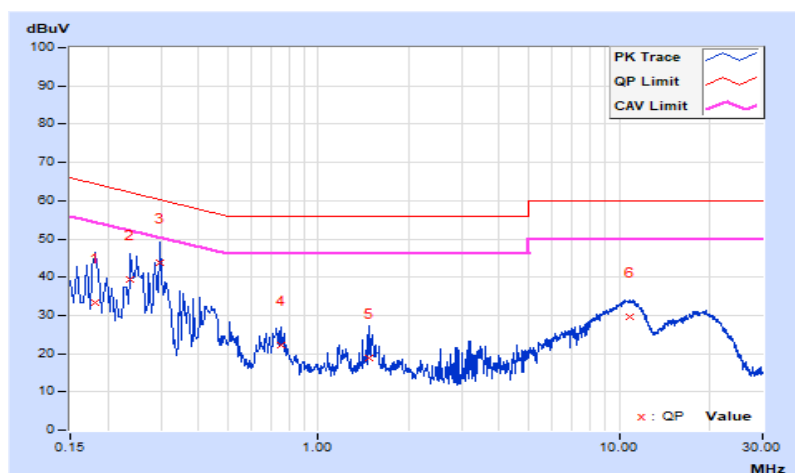
7.7 AC Power Conducted Emissions

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	23 °C, 67 % 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	0.18200	9.66	23.77	14.14	33.43	23.80	64.39	54.39	-30.96	-30.59
2	0.23800	9.67	29.75	18.43	39.42	28.10	62.17	52.17	-22.75	-24.07
3	0.29800	9.67	34.08	20.63	43.75	30.30	60.30	50.30	-16.55	-20.00
4	0.75000	9.71	12.53	7.16	22.24	16.87	56.00	46.00	-33.76	-29.13
5	1.47800	9.75	9.15	1.37	18.90	11.12	56.00	46.00	-37.10	-34.88
6	10.91400	9.88	19.91	11.09	29.79	20.97	60.00	50.00	-30.21	-29.03

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	23 °C, 67 % 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	0.17384	9.64	33.42	22.49	43.06	32.13	64.77	54.77	-21.71	-22.64
2	0.29000	9.68	35.07	21.18	44.75	30.86	60.52	50.52	-15.77	-19.66
3	0.32200	9.69	29.60	14.27	39.29	23.96	59.66	49.66	-20.37	-25.70
4	0.73400	9.73	12.68	7.95	22.41	17.68	56.00	46.00	-33.59	-28.32
5	1.47000	9.75	15.20	5.43	24.95	15.18	56.00	46.00	-31.05	-30.82
6	10.86200	9.96	21.02	11.94	30.98	21.90	60.00	50.00	-29.02	-28.10

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



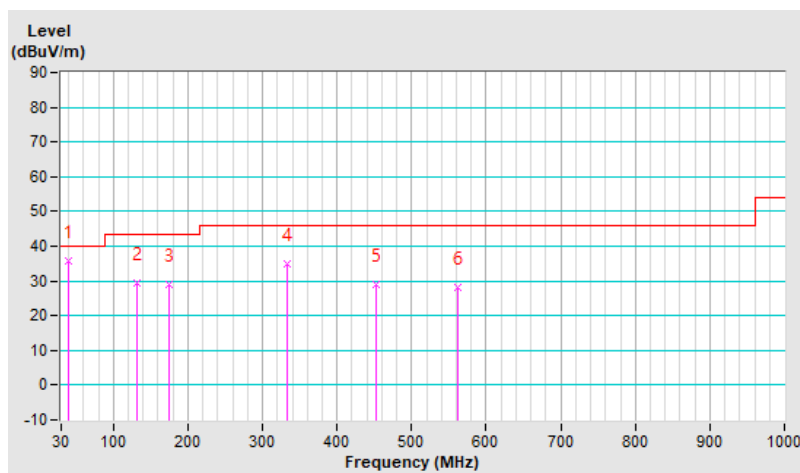
7.8 Unwanted Emissions below 1 GHz

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	39.70	35.8 QP	40.0	-4.2	1.26 H	352	49.5	-13.7
2	131.85	29.3 QP	43.5	-14.2	1.72 H	151	43.7	-14.4
3	175.50	29.1 QP	43.5	-14.4	1.55 H	152	42.9	-13.8
4	333.61	34.8 QP	46.0	-11.2	1.39 H	236	46.3	-11.5
5	452.92	28.8 QP	46.0	-17.2	1.30 H	145	37.3	-8.5
6	561.56	28.3 QP	46.0	-17.7	2.88 H	174	34.9	-6.6

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 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.

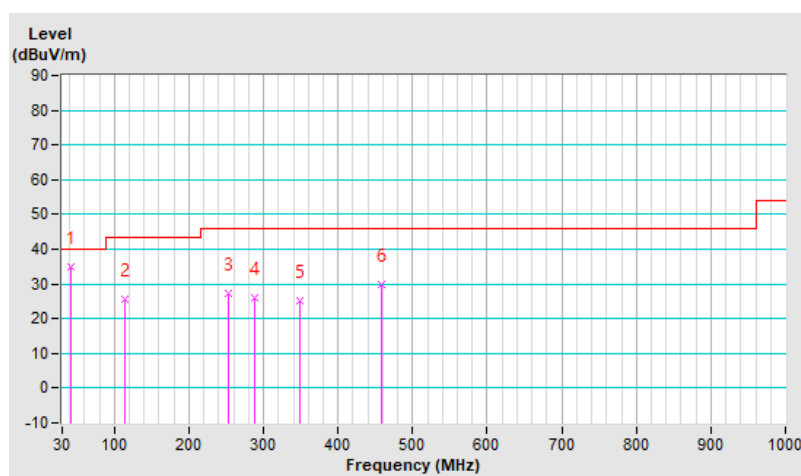


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Karl Lee		

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	41.80	34.9 QP	40.0	-5.1	1.65 V	335	48.2	-13.3
2	114.98	25.4 QP	43.5	-18.1	2.04 V	126	41.2	-15.8
3	253.14	27.5 QP	46.0	-18.5	1.72 V	55	41.8	-14.3
4	287.54	26.2 QP	46.0	-19.8	1.51 V	240	39.1	-12.9
5	348.25	25.1 QP	46.0	-20.9	1.66 V	187	36.7	-11.6
6	458.12	30.0 QP	46.0	-16.0	2.32 V	184	38.3	-8.3

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.



7.9 Unwanted Emissions above 1 GHz

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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.6 PK	74.0	-10.4	2.25 H	356	60.6	3.0
2	5150.00	53.4 AV	54.0	-0.6	2.25 H	356	50.4	3.0
3	*5180.00	115.7 PK			2.25 H	356	74.7	41.0
4	*5180.00	108.3 AV			2.25 H	356	67.3	41.0
5	#10360.00	62.1 PK	68.2	-6.1	1.00 H	166	52.4	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	5150.00	58.6 PK	74.0	-15.4	1.73 V	224	55.6	3.0
2	5150.00	49.2 AV	54.0	-4.8	1.73 V	224	46.2	3.0
3	*5180.00	108.1 PK			1.73 V	224	67.1	41.0
4	*5180.00	100.4 AV			1.73 V	224	59.4	41.0
5	#10360.00	59.5 PK	68.2	-8.7	1.96 V	235	49.8	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	802.11a	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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.3 PK	74.0	-11.7	2.25 H	360	59.3	3.0
2	5150.00	53.1 AV	54.0	-0.9	2.25 H	360	50.1	3.0
3	*5200.00	116.2 PK			2.25 H	360	75.3	40.9
4	*5200.00	108.2 AV			2.25 H	360	67.3	40.9
5	#10400.00	61.8 PK	68.2	-6.4	1.00 H	157	52.3	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	5150.00	58.6 PK	74.0	-15.4	1.74 V	219	55.6	3.0
2	5150.00	48.6 AV	54.0	-5.4	1.74 V	219	45.6	3.0
3	*5200.00	108.2 PK			1.74 V	219	67.3	40.9
4	*5200.00	100.2 AV			1.74 V	219	59.3	40.9
5	#10400.00	59.1 PK	68.2	-9.1	1.54 V	118	49.6	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	802.11a	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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.7 PK	74.0	-7.3	2.31 H	348	63.7	3.0
2	5150.00	53.3 AV	54.0	-0.7	2.31 H	348	50.3	3.0
3	*5240.00	119.2 PK			2.31 H	348	78.3	40.9
4	*5240.00	109.8 AV			2.31 H	348	68.9	40.9
5	5350.00	64.1 PK	74.0	-9.9	2.31 H	348	61.1	3.0
6	5350.00	50.9 AV	54.0	-3.1	2.31 H	348	47.9	3.0
7	#10480.00	65.2 PK	68.2	-3.0	1.55 H	181	56.0	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	5150.00	58.7 PK	74.0	-15.3	1.68 V	207	55.7	3.0
2	5150.00	48.8 AV	54.0	-5.2	1.68 V	207	45.8	3.0
3	*5240.00	112.3 PK			1.68 V	207	71.4	40.9
4	*5240.00	102.9 AV			1.68 V	207	62.0	40.9
5	5350.00	57.6 PK	74.0	-16.4	1.68 V	207	54.6	3.0
6	5350.00	48.7 AV	54.0	-5.3	1.68 V	207	45.7	3.0
7	#10480.00	58.8 PK	68.2	-9.4	1.75 V	142	49.6	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 (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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.8 PK	74.0	-11.2	2.25 H	356	59.8	3.0
2	5150.00	52.9 AV	54.0	-1.1	2.25 H	356	49.9	3.0
3	*5180.00	115.1 PK			2.25 H	356	74.1	41.0
4	*5180.00	105.8 AV			2.25 H	356	64.8	41.0
5	#10360.00	62.5 PK	68.2	-5.7	1.00 H	166	52.8	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	5150.00	58.3 PK	74.0	-15.7	1.73 V	224	55.3	3.0
2	5150.00	48.0 AV	54.0	-6.0	1.73 V	224	45.0	3.0
3	*5180.00	107.6 PK			1.73 V	224	66.6	41.0
4	*5180.00	97.3 AV			1.73 V	224	56.3	41.0
5	#10360.00	59.0 PK	68.2	-9.2	1.96 V	235	49.3	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.

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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.9 PK	74.0	-11.1	2.25 H	360	59.9	3.0
2	5150.00	53.5 AV	54.0	-0.5	2.25 H	360	50.5	3.0
3	*5200.00	116.3 PK			2.25 H	360	75.4	40.9
4	*5200.00	106.3 AV			2.25 H	360	65.4	40.9
5	5350.00	59.1 PK	74.0	-14.9	2.25 H	360	56.1	3.0
6	5350.00	49.4 AV	54.0	-4.6	2.25 H	360	46.4	3.0
7	#10400.00	61.1 PK	68.2	-7.1	1.00 H	157	51.6	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	5150.00	58.4 PK	74.0	-15.6	1.74 V	219	55.4	3.0
2	5150.00	48.8 AV	54.0	-5.2	1.74 V	219	45.8	3.0
3	*5200.00	108.3 PK			1.74 V	219	67.4	40.9
4	*5200.00	98.3 AV			1.74 V	219	57.4	40.9
5	5350.00	57.5 PK	74.0	-16.5	1.74 V	219	54.5	3.0
6	5350.00	47.5 AV	54.0	-6.5	1.74 V	219	44.5	3.0
7	#10400.00	59.1 PK	68.2	-9.1	1.54 V	118	49.6	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 (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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.7 PK	74.0	-10.3	2.25 H	350	60.7	3.0
2	5150.00	53.6 AV	54.0	-0.4	2.25 H	350	50.6	3.0
3	*5240.00	121.1 PK			2.25 H	350	80.2	40.9
4	*5240.00	110.5 AV			2.25 H	350	69.6	40.9
5	5350.00	61.6 PK	74.0	-12.4	2.25 H	350	58.6	3.0
6	5350.00	52.5 AV	54.0	-1.5	2.25 H	350	49.5	3.0
7	#10480.00	61.3 PK	68.2	-6.9	1.04 H	175	52.1	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	60.0 PK	74.0	-14.0	1.68 V	207	57.0	3.0
2	5150.00	49.1 AV	54.0	-4.9	1.68 V	207	46.1	3.0
3	*5240.00	113.1 PK			1.68 V	207	72.2	40.9
4	*5240.00	102.2 AV			1.68 V	207	61.3	40.9
5	5350.00	58.6 PK	74.0	-15.4	1.68 V	207	55.6	3.0
6	5350.00	48.8 AV	54.0	-5.2	1.68 V	207	45.8	3.0
7	#10480.00	58.5 PK	68.2	-9.7	1.75 V	142	49.3	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.
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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.3 PK	74.0	-11.7	2.33 H	351	59.3	3.0
2	5150.00	52.9 AV	54.0	-1.1	2.33 H	351	49.9	3.0
3	*5190.00	114.7 PK			2.33 H	351	73.7	41.0
4	*5190.00	104.5 AV			2.33 H	351	63.5	41.0
5	5350.00	58.0 PK	74.0	-16.0	2.33 H	351	55.0	3.0
6	5350.00	48.3 AV	54.0	-5.7	2.33 H	351	45.3	3.0
7	#10380.00	61.1 PK	68.2	-7.1	1.00 H	166	51.6	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	5150.00	58.8 PK	74.0	-15.2	1.74 V	220	55.8	3.0
2	5150.00	49.1 AV	54.0	-4.9	1.74 V	220	46.1	3.0
3	*5190.00	107.2 PK			1.74 V	220	66.2	41.0
4	*5190.00	96.6 AV			1.74 V	220	55.6	41.0
5	5350.00	58.4 PK	74.0	-15.6	1.74 V	220	55.4	3.0
6	5350.00	47.4 AV	54.0	-6.6	1.74 V	220	44.4	3.0
7	#10380.00	58.2 PK	68.2	-10.0	1.04 V	255	48.7	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 (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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.6 PK	74.0	-10.4	2.25 H	4	60.6	3.0
2	5150.00	53.3 AV	54.0	-0.7	2.25 H	4	50.3	3.0
3	*5230.00	116.0 PK			2.25 H	4	75.1	40.9
4	*5230.00	105.1 AV			2.25 H	4	64.2	40.9
5	5350.00	60.2 PK	74.0	-13.8	2.25 H	4	57.2	3.0
6	5350.00	50.9 AV	54.0	-3.1	2.25 H	4	47.9	3.0
7	#10460.00	57.6 PK	68.2	-10.6	1.62 H	42	48.3	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	59.5 PK	74.0	-14.5	1.68 V	201	56.5	3.0
2	5150.00	48.7 AV	54.0	-5.3	1.68 V	201	45.7	3.0
3	*5230.00	107.9 PK			1.68 V	201	67.0	40.9
4	*5230.00	97.7 AV			1.68 V	201	56.8	40.9
5	5350.00	57.2 PK	74.0	-16.8	1.68 V	201	54.2	3.0
6	5350.00	47.7 AV	54.0	-6.3	1.68 V	201	44.7	3.0
7	#10460.00	56.9 PK	68.2	-11.3	2.06 V	228	47.6	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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.8 PK	74.0	-12.2	2.25 H	5	58.8	3.0
2	5150.00	53.3 AV	54.0	-0.7	2.25 H	5	50.3	3.0
3	*5210.00	109.8 PK			2.25 H	5	68.9	40.9
4	*5210.00	99.2 AV			2.25 H	5	58.3	40.9
5	5350.00	57.6 PK	74.0	-16.4	2.25 H	5	54.6	3.0
6	5350.00	48.4 AV	54.0	-5.6	2.25 H	5	45.4	3.0
7	#10420.00	57.5 PK	68.2	-10.7	1.51 H	274	48.2	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	59.7 PK	74.0	-14.3	1.74 V	211	56.7	3.0
2	5150.00	49.0 AV	54.0	-5.0	1.74 V	211	46.0	3.0
3	*5210.00	101.4 PK			1.74 V	211	60.5	40.9
4	*5210.00	91.0 AV			1.74 V	211	50.1	40.9
5	5350.00	56.9 PK	74.0	-17.1	1.74 V	211	53.9	3.0
6	5350.00	47.6 AV	54.0	-6.4	1.74 V	211	44.6	3.0
7	#10420.00	57.1 PK	68.2	-11.1	1.58 V	153	47.8	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	802.11a	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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.6 PK	74.0	-11.4	2.25 H	4	59.6	3.0
2	5150.00	52.4 AV	54.0	-1.6	2.25 H	4	49.4	3.0
3	*5260.00	119.8 PK			2.25 H	4	78.9	40.9
4	*5260.00	112.1 AV			2.25 H	4	71.2	40.9
5	5350.00	63.2 PK	74.0	-10.8	2.25 H	4	60.2	3.0
6	5350.00	53.3 AV	54.0	-0.7	2.25 H	4	50.3	3.0
7	#10520.00	61.5 PK	68.2	-6.7	1.04 H	175	52.3	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	58.8 PK	74.0	-15.2	1.62 V	214	55.8	3.0
2	5150.00	48.5 AV	54.0	-5.5	1.62 V	214	45.5	3.0
3	*5260.00	111.8 PK			1.62 V	214	70.9	40.9
4	*5260.00	104.3 AV			1.62 V	214	63.4	40.9
5	5350.00	59.0 PK	74.0	-15.0	1.62 V	214	56.0	3.0
6	5350.00	49.0 AV	54.0	-5.0	1.62 V	214	46.0	3.0
7	#10520.00	59.0 PK	68.2	-9.2	1.66 V	257	49.8	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.
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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	115.9 PK			2.40 H	5	75.2	40.7
2	*5300.00	106.6 AV			2.40 H	5	65.9	40.7
3	5350.00	65.5 PK	74.0	-8.5	2.40 H	5	62.5	3.0
4	5350.00	53.1 AV	54.0	-0.9	2.40 H	5	50.1	3.0
5	10600.00	64.3 PK	74.0	-9.7	1.43 H	169	55.0	9.3
6	10600.00	52.0 AV	54.0	-2.0	1.43 H	169	42.7	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	*5300.00	108.9 PK			1.53 V	226	68.2	40.7
2	*5300.00	99.6 AV			1.53 V	226	58.9	40.7
3	5350.00	57.6 PK	74.0	-16.4	1.53 V	226	54.6	3.0
4	5350.00	48.6 AV	54.0	-5.4	1.53 V	226	45.6	3.0
5	10600.00	59.0 PK	74.0	-15.0	1.32 V	196	49.7	9.3
6	10600.00	49.3 AV	54.0	-4.7	1.32 V	196	40.0	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.

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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	116.0 PK			2.65 H	360	75.2	40.8
2	*5320.00	108.2 AV			2.65 H	360	67.4	40.8
3	5350.00	61.6 PK	74.0	-12.4	2.65 H	360	58.6	3.0
4	5350.00	53.6 AV	54.0	-0.4	2.65 H	360	50.6	3.0
5	10640.00	61.7 PK	74.0	-12.3	1.29 H	142	52.4	9.3
6	10640.00	52.0 AV	54.0	-2.0	1.29 H	142	42.7	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	*5320.00	108.2 PK			1.59 V	214	67.4	40.8
2	*5320.00	100.3 AV			1.59 V	214	59.5	40.8
3	5350.00	57.6 PK	74.0	-16.4	1.59 V	214	54.6	3.0
4	5350.00	48.7 AV	54.0	-5.3	1.59 V	214	45.7	3.0
5	10640.00	58.9 PK	74.0	-15.1	1.53 V	157	49.6	9.3
6	10640.00	49.1 AV	54.0	-4.9	1.53 V	157	39.8	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.

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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.1 PK	74.0	-10.9	2.25 H	4	60.1	3.0
2	5150.00	52.5 AV	54.0	-1.5	2.25 H	4	49.5	3.0
3	*5260.00	121.6 PK			2.25 H	4	80.7	40.9
4	*5260.00	110.4 AV			2.25 H	4	69.5	40.9
5	5350.00	63.0 PK	74.0	-11.0	2.25 H	4	60.0	3.0
6	5350.00	53.5 AV	54.0	-0.5	2.25 H	4	50.5	3.0
7	#10520.00	61.0 PK	68.2	-7.2	1.04 H	175	51.8	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	5150.00	59.0 PK	74.0	-15.0	1.62 V	214	56.0	3.0
2	5150.00	48.4 AV	54.0	-5.6	1.62 V	214	45.4	3.0
3	*5260.00	112.9 PK			1.62 V	214	72.0	40.9
4	*5260.00	102.2 AV			1.62 V	214	61.3	40.9
5	5350.00	57.6 PK	74.0	-16.4	1.62 V	214	54.6	3.0
6	5350.00	48.7 AV	54.0	-5.3	1.62 V	214	45.7	3.0
7	#10520.00	58.9 PK	68.2	-9.3	1.66 V	257	49.7	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 (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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	117.6 PK			2.63 H	7	76.9	40.7
2	*5300.00	106.9 AV			2.63 H	7	66.2	40.7
3	5350.00	63.0 PK	74.0	-11.0	2.63 H	7	60.0	3.0
4	5350.00	53.4 AV	54.0	-0.6	2.63 H	7	50.4	3.0
5	10600.00	60.2 PK	74.0	-13.8	1.12 H	159	50.9	9.3
6	10600.00	50.6 AV	54.0	-3.4	1.12 H	159	41.3	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	*5300.00	109.2 PK			1.53 V	226	68.5	40.7
2	*5300.00	99.2 AV			1.53 V	226	58.5	40.7
3	5350.00	57.7 PK	74.0	-16.3	1.53 V	226	54.7	3.0
4	5350.00	48.5 AV	54.0	-5.5	1.53 V	226	45.5	3.0
5	10600.00	58.4 PK	74.0	-15.6	1.32 V	196	49.1	9.3
6	10600.00	48.6 AV	54.0	-5.4	1.32 V	196	39.3	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.

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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	117.3 PK			2.65 H	1	76.5	40.8
2	*5320.00	106.4 AV			2.65 H	1	65.6	40.8
3	5350.00	63.1 PK	74.0	-10.9	2.65 H	1	60.1	3.0
4	5350.00	53.6 AV	54.0	-0.4	2.65 H	1	50.6	3.0
5	10640.00	60.6 PK	74.0	-13.4	1.29 H	142	51.3	9.3
6	10640.00	50.9 AV	54.0	-3.1	1.29 H	142	41.6	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	*5320.00	108.4 PK			1.59 V	214	67.6	40.8
2	*5320.00	98.2 AV			1.59 V	214	57.4	40.8
3	5350.00	58.0 PK	74.0	-16.0	1.59 V	214	55.0	3.0
4	5350.00	48.9 AV	54.0	-5.1	1.59 V	214	45.9	3.0
5	10640.00	58.2 PK	74.0	-15.8	1.53 V	157	48.9	9.3
6	10640.00	48.5 AV	54.0	-5.5	1.53 V	157	39.2	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.

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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.0 PK	74.0	-10.0	2.71 H	7	61.0	3.0
2	5150.00	51.1 AV	54.0	-2.9	2.71 H	7	48.1	3.0
3	*5270.00	118.6 PK			2.71 H	7	77.8	40.8
4	*5270.00	106.0 AV			2.71 H	7	65.2	40.8
5	5350.00	67.4 PK	74.0	-6.6	2.71 H	7	64.4	3.0
6	5350.00	53.2 AV	54.0	-0.8	2.71 H	7	50.2	3.0
7	#10540.00	65.4 PK	68.2	-2.8	1.55 H	180	56.2	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	57.5 PK	74.0	-16.5	1.62 V	204	54.5	3.0
2	5150.00	47.7 AV	54.0	-6.3	1.62 V	204	44.7	3.0
3	*5270.00	111.4 PK			1.62 V	204	70.6	40.8
4	*5270.00	99.3 AV			1.62 V	204	58.5	40.8
5	5350.00	57.3 PK	74.0	-16.7	1.62 V	204	54.3	3.0
6	5350.00	48.7 AV	54.0	-5.3	1.62 V	204	45.7	3.0
7	#10540.00	58.1 PK	68.2	-10.1	1.59 V	249	48.9	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.
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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.0 PK	74.0	-15.0	2.66 H	1	56.0	3.0
2	5150.00	48.2 AV	54.0	-5.8	2.66 H	1	45.2	3.0
3	*5310.00	114.9 PK			2.66 H	1	74.1	40.8
4	*5310.00	104.0 AV			2.66 H	1	63.2	40.8
5	5350.00	63.6 PK	74.0	-10.4	2.66 H	1	60.6	3.0
6	5350.00	53.5 AV	54.0	-0.5	2.66 H	1	50.5	3.0
7	10620.00	60.0 PK	74.0	-14.0	1.29 H	138	50.8	9.2
8	10620.00	50.3 AV	54.0	-3.7	1.29 H	138	41.1	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	56.8 PK	74.0	-17.2	1.54 V	213	53.8	3.0
2	5150.00	47.1 AV	54.0	-6.9	1.54 V	213	44.1	3.0
3	*5310.00	106.4 PK			1.54 V	213	65.6	40.8
4	*5310.00	96.0 AV			1.54 V	213	55.2	40.8
5	5350.00	57.0 PK	74.0	-17.0	1.54 V	213	54.0	3.0
6	5350.00	48.3 AV	54.0	-5.7	1.54 V	213	45.3	3.0
7	10620.00	57.7 PK	74.0	-16.3	1.53 V	139	48.5	9.2
8	10620.00	48.0 AV	54.0	-6.0	1.53 V	139	38.8	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 (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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	55.3 PK	74.0	-18.7	2.75 H	4	52.3	3.0
2	5150.00	48.2 AV	54.0	-5.8	2.75 H	4	45.2	3.0
3	*5290.00	111.0 PK			2.75 H	4	70.2	40.8
4	*5290.00	97.9 AV			2.75 H	4	57.1	40.8
5	5350.00	66.6 PK	74.0	-7.4	2.75 H	4	63.6	3.0
6	5350.00	53.6 AV	54.0	-0.4	2.75 H	4	50.6	3.0
7	#10580.00	64.7 PK	68.2	-3.5	1.63 H	160	55.5	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	57.3 PK	74.0	-16.7	1.51 V	232	54.3	3.0
2	5150.00	47.4 AV	54.0	-6.6	1.51 V	232	44.4	3.0
3	*5290.00	103.7 PK			1.51 V	232	62.9	40.8
4	*5290.00	93.7 AV			1.51 V	232	52.9	40.8
5	5350.00	57.5 PK	74.0	-16.5	1.51 V	232	54.5	3.0
6	5350.00	49.1 AV	54.0	-4.9	1.51 V	232	46.1	3.0
7	#10580.00	57.6 PK	68.2	-10.6	1.27 V	178	48.4	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 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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.0 PK	74.0	-10.0	2.72 H	349	60.9	3.1
2	5460.00	53.5 AV	54.0	-0.5	2.72 H	349	50.4	3.1
3	#5470.00	64.4 PK	68.2	-3.8	2.72 H	349	61.3	3.1
4	*5500.00	113.0 PK			2.72 H	349	71.8	41.2
5	*5500.00	105.2 AV			2.72 H	349	64.0	41.2
6	11000.00	57.9 PK	74.0	-16.1	1.50 H	15	48.4	9.5
7	11000.00	47.0 AV	54.0	-7.0	1.50 H	15	37.5	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	59.0 PK	74.0	-15.0	1.44 V	51	55.9	3.1
2	5460.00	49.0 AV	54.0	-5.0	1.44 V	51	45.9	3.1
3	#5470.00	59.3 PK	68.2	-8.9	1.44 V	51	56.2	3.1
4	*5500.00	106.0 PK			1.44 V	51	64.8	41.2
5	*5500.00	98.1 AV			1.44 V	51	56.9	41.2
6	11000.00	57.4 PK	74.0	-16.6	1.57 V	187	47.9	9.5
7	11000.00	46.4 AV	54.0	-7.6	1.57 V	187	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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.4 PK	74.0	-11.6	2.72 H	358	59.3	3.1
2	5460.00	53.8 AV	54.0	-0.2	2.72 H	358	50.7	3.1
3	#5470.00	62.8 PK	68.2	-5.4	2.72 H	358	59.7	3.1
4	*5580.00	120.2 PK			2.72 H	358	78.6	41.6
5	*5580.00	113.4 AV			2.72 H	358	71.8	41.6
6	11160.00	60.2 PK	74.0	-13.8	2.54 H	135	50.5	9.7
7	11160.00	50.0 AV	54.0	-4.0	2.54 H	135	40.3	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	59.5 PK	74.0	-14.5	1.37 V	59	56.4	3.1
2	5460.00	49.5 AV	54.0	-4.5	1.37 V	59	46.4	3.1
3	#5470.00	58.5 PK	68.2	-9.7	1.37 V	59	55.4	3.1
4	*5580.00	112.7 PK			1.37 V	59	71.1	41.6
5	*5580.00	105.7 AV			1.37 V	59	64.1	41.6
6	11160.00	57.8 PK	74.0	-16.2	1.26 V	217	48.1	9.7
7	11160.00	48.0 AV	54.0	-6.0	1.26 V	217	38.3	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.

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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	116.6 PK			2.72 H	1	74.5	42.1
2	*5700.00	109.8 AV			2.72 H	1	67.7	42.1
3	#5725.00	65.9 PK	68.2	-2.3	2.72 H	1	61.4	4.5
4	11400.00	58.2 PK	74.0	-15.8	2.04 H	196	48.4	9.8
5	11400.00	48.3 AV	54.0	-5.7	2.04 H	196	38.5	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	*5700.00	109.3 PK			1.40 V	54	67.2	42.1
2	*5700.00	102.1 AV			1.40 V	54	60.0	42.1
3	#5725.00	60.4 PK	68.2	-7.8	1.40 V	54	55.9	4.5
4	11400.00	58.2 PK	74.0	-15.8	2.66 V	184	48.4	9.8
5	11400.00	48.3 AV	54.0	-5.7	2.66 V	184	38.5	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 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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	66.6 PK	74.0	-7.4	2.84 H	358	63.5	3.1
2	5460.00	53.8 AV	54.0	-0.2	2.84 H	358	50.7	3.1
3	#5470.00	67.6 PK	68.2	-0.6	2.84 H	358	64.5	3.1
4	*5500.00	115.0 PK			2.84 H	358	73.8	41.2
5	*5500.00	102.6 AV			2.84 H	358	61.4	41.2
6	11000.00	64.1 PK	74.0	-9.9	1.77 H	175	54.6	9.5
7	11000.00	51.7 AV	54.0	-2.3	1.77 H	175	42.2	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	58.3 PK	74.0	-15.7	1.37 V	56	55.2	3.1
2	5460.00	48.6 AV	54.0	-5.4	1.37 V	56	45.5	3.1
3	#5470.00	58.3 PK	68.2	-9.9	1.37 V	56	55.2	3.1
4	*5500.00	107.3 PK			1.37 V	56	66.1	41.2
5	*5500.00	94.9 AV			1.37 V	56	53.7	41.2
6	11000.00	57.2 PK	74.0	-16.8	1.21 V	247	47.7	9.5
7	11000.00	47.4 AV	54.0	-6.6	1.21 V	247	37.9	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 (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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	65.8 PK	74.0	-8.2	2.84 H	0	62.7	3.1
2	5460.00	52.7 AV	54.0	-1.3	2.84 H	0	49.6	3.1
3	#5470.00	67.3 PK	68.2	-0.9	2.84 H	0	64.2	3.1
4	*5580.00	122.2 PK			2.84 H	0	80.6	41.6
5	*5580.00	109.4 AV			2.84 H	0	67.8	41.6
6	11160.00	64.3 PK	74.0	-9.7	1.81 H	179	54.6	9.7
7	11160.00	51.7 AV	54.0	-2.3	1.81 H	179	42.0	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	59.7 PK	74.0	-14.3	1.37 V	59	56.6	3.1
2	5460.00	50.0 AV	54.0	-4.0	1.37 V	59	46.9	3.1
3	#5470.00	59.0 PK	68.2	-9.2	1.37 V	59	55.9	3.1
4	*5580.00	115.1 PK			1.37 V	59	73.5	41.6
5	*5580.00	102.2 AV			1.37 V	59	60.6	41.6
6	11160.00	57.5 PK	74.0	-16.5	1.12 V	274	47.8	9.7
7	11160.00	47.6 AV	54.0	-6.4	1.12 V	274	37.9	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 (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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	117.3 PK			2.72 H	0	75.2	42.1
2	*5700.00	108.0 AV			2.72 H	0	65.9	42.1
3	#5725.00	66.8 PK	68.2	-1.4	2.72 H	0	62.3	4.5
4	11400.00	57.9 PK	74.0	-16.1	2.04 H	196	48.1	9.8
5	11400.00	48.1 AV	54.0	-5.9	2.04 H	196	38.3	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	*5700.00	109.3 PK			1.40 V	54	67.2	42.1
2	*5700.00	100.2 AV			1.40 V	54	58.1	42.1
3	#5725.00	62.5 PK	68.2	-5.7	1.40 V	54	58.0	4.5
4	11400.00	57.4 PK	74.0	-16.6	2.66 V	184	47.6	9.8
5	11400.00	47.6 AV	54.0	-6.4	2.66 V	184	37.8	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 (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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	65.8 PK	74.0	-8.2	3.06 H	0	62.7	3.1
2	5460.00	53.0 AV	54.0	-1.0	3.06 H	0	49.9	3.1
3	#5470.00	67.9 PK	68.2	-0.3	3.06 H	0	64.8	3.1
4	*5510.00	114.5 PK			3.06 H	0	73.2	41.3
5	*5510.00	102.2 AV			3.06 H	0	60.9	41.3
6	#5725.00	58.6 PK	68.2	-9.6	3.06 H	0	54.1	4.5
7	11020.00	64.3 PK	74.0	-9.7	1.63 H	198	54.8	9.5
8	11020.00	51.7 AV	54.0	-2.3	1.63 H	198	42.2	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	58.1 PK	74.0	-15.9	1.37 V	56	55.0	3.1
2	5460.00	49.0 AV	54.0	-5.0	1.37 V	56	45.9	3.1
3	#5470.00	58.2 PK	68.2	-10.0	1.37 V	56	55.1	3.1
4	*5510.00	107.3 PK			1.37 V	56	66.0	41.3
5	*5510.00	94.9 AV			1.37 V	56	53.6	41.3
6	#5725.00	60.3 PK	68.2	-7.9	1.37 V	56	55.8	4.5
7	11020.00	57.7 PK	74.0	-16.3	1.27 V	253	48.2	9.5
8	11020.00	47.9 AV	54.0	-6.1	1.27 V	253	38.4	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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	66.6 PK	74.0	-7.4	2.72 H	1	63.5	3.1
2	5460.00	53.2 AV	54.0	-0.8	2.72 H	1	50.1	3.1
3	#5470.00	66.4 PK	68.2	-1.8	2.72 H	1	63.3	3.1
4	*5550.00	117.3 PK			2.72 H	1	75.9	41.4
5	*5550.00	104.5 AV			2.72 H	1	63.1	41.4
6	#5725.00	60.5 PK	68.2	-7.7	2.72 H	1	56.0	4.5
7	11100.00	64.8 PK	74.0	-9.2	1.52 H	174	55.1	9.7
8	11100.00	51.9 AV	54.0	-2.1	1.52 H	174	42.2	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	5460.00	60.7 PK	74.0	-13.3	1.37 V	49	57.6	3.1
2	5460.00	49.0 AV	54.0	-5.0	1.37 V	49	45.9	3.1
3	#5470.00	59.3 PK	68.2	-8.9	1.37 V	49	56.2	3.1
4	*5550.00	110.1 PK			1.37 V	49	68.7	41.4
5	*5550.00	97.2 AV			1.37 V	49	55.8	41.4
6	#5725.00	59.7 PK	68.2	-8.5	1.37 V	49	55.2	4.5
7	11100.00	57.5 PK	74.0	-16.5	1.09 V	218	47.8	9.7
8	11100.00	47.8 AV	54.0	-6.2	1.09 V	218	38.1	9.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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 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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.1 PK	74.0	-14.9	2.68 H	1	56.0	3.1
2	5460.00	48.6 AV	54.0	-5.4	2.68 H	1	45.5	3.1
3	#5470.00	58.9 PK	68.2	-9.3	2.68 H	1	55.8	3.1
4	*5670.00	115.1 PK			2.68 H	1	73.0	42.1
5	*5670.00	105.2 AV			2.68 H	1	63.1	42.1
6	#5725.00	67.3 PK	68.2	-0.9	2.68 H	1	62.8	4.5
7	11340.00	57.7 PK	74.0	-16.3	1.63 H	182	47.7	10.0
8	11340.00	47.9 AV	54.0	-6.1	1.63 H	182	37.9	10.0
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	5460.00	58.9 PK	74.0	-15.1	1.29 V	52	55.8	3.1
2	5460.00	47.7 AV	54.0	-6.3	1.29 V	52	44.6	3.1
3	#5470.00	59.1 PK	68.2	-9.1	1.29 V	52	56.0	3.1
4	*5670.00	107.0 PK			1.29 V	52	64.9	42.1
5	*5670.00	98.0 AV			1.29 V	52	55.9	42.1
6	#5725.00	61.5 PK	68.2	-6.7	1.29 V	52	57.0	4.5
7	11340.00	58.3 PK	74.0	-15.7	1.18 V	156	48.3	10.0
8	11340.00	48.5 AV	54.0	-5.5	1.18 V	156	38.5	10.0

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	66.8 PK	74.0	-7.2	2.76 H	4	63.7	3.1
2	5460.00	53.1 AV	54.0	-0.9	2.76 H	4	50.0	3.1
3	#5470.00	67.1 PK	68.2	-1.1	2.76 H	4	64.0	3.1
4	*5530.00	110.1 PK			2.76 H	4	68.8	41.3
5	*5530.00	98.1 AV			2.76 H	4	56.8	41.3
6	#5725.00	59.5 PK	68.2	-8.7	2.76 H	4	55.0	4.5
7	11060.00	65.8 PK	74.0	-8.2	1.74 H	179	56.2	9.6
8	11060.00	52.0 AV	54.0	-2.0	1.74 H	179	42.4	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	60.1 PK	74.0	-13.9	1.34 V	62	57.0	3.1
2	5460.00	48.9 AV	54.0	-5.1	1.34 V	62	45.8	3.1
3	#5470.00	59.5 PK	68.2	-8.7	1.34 V	62	56.4	3.1
4	*5530.00	102.8 PK			1.34 V	62	61.5	41.3
5	*5530.00	90.9 AV			1.34 V	62	49.6	41.3
6	#5725.00	60.1 PK	68.2	-8.1	1.34 V	62	55.6	4.5
7	11060.00	57.5 PK	74.0	-16.5	1.96 V	152	47.9	9.6
8	11060.00	47.6 AV	54.0	-6.4	1.96 V	152	38.0	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 (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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.4 PK	74.0	-9.6	2.72 H	359	61.3	3.1
2	5460.00	53.7 AV	54.0	-0.3	2.72 H	359	50.6	3.1
3	#5470.00	63.2 PK	68.2	-5.0	2.72 H	359	60.1	3.1
4	*5610.00	110.4 PK			2.72 H	359	68.7	41.7
5	*5610.00	103.5 AV			2.72 H	359	61.8	41.7
6	#5725.00	65.7 PK	68.2	-2.5	2.72 H	359	61.2	4.5
7	11220.00	57.5 PK	74.0	-16.5	2.40 H	194	47.6	9.9
8	11220.00	47.8 AV	54.0	-6.2	2.40 H	194	37.9	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	5460.00	60.2 PK	74.0	-13.8	1.37 V	58	57.1	3.1
2	5460.00	49.3 AV	54.0	-4.7	1.37 V	58	46.2	3.1
3	#5470.00	60.0 PK	68.2	-8.2	1.37 V	58	56.9	3.1
4	*5610.00	104.3 PK			1.37 V	58	62.6	41.7
5	*5610.00	95.6 AV			1.37 V	58	53.9	41.7
6	#5725.00	60.5 PK	68.2	-7.7	1.37 V	58	56.0	4.5
7	11220.00	58.0 PK	74.0	-16.0	2.55 V	196	48.1	9.9
8	11220.00	48.3 AV	54.0	-5.7	2.55 V	196	38.4	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	802.11a	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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.60	63.1 PK	68.2	-5.1	2.36 H	359	59.0	4.1
2	*5745.00	118.6 PK			2.36 H	359	76.2	42.4
3	*5745.00	111.7 AV			2.36 H	359	69.3	42.4
4	#5928.00	59.3 PK	68.2	-8.9	2.36 H	359	54.5	4.8
5	11490.00	56.5 PK	74.0	-17.5	1.43 H	301	46.7	9.8
6	11490.00	46.9 AV	54.0	-7.1	1.43 H	301	37.1	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	#5614.40	57.7 PK	68.2	-10.5	1.52 V	171	53.9	3.8
2	*5745.00	109.6 PK			1.52 V	171	67.2	42.4
3	*5745.00	102.6 AV			1.52 V	171	60.2	42.4
4	#5985.60	57.8 PK	68.2	-10.4	1.52 V	171	53.0	4.8
5	11490.00	56.2 PK	74.0	-17.8	2.24 V	185	46.4	9.8
6	11490.00	46.7 AV	54.0	-7.3	2.24 V	185	36.9	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.

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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.60	61.8 PK	68.2	-6.4	2.32 H	357	57.6	4.2
2	*5785.00	119.9 PK			2.32 H	357	77.2	42.7
3	*5785.00	112.9 AV			2.32 H	357	70.2	42.7
4	#5926.40	61.6 PK	68.2	-6.6	2.32 H	357	56.8	4.8
5	11570.00	56.5 PK	74.0	-17.5	1.35 H	294	46.8	9.7
6	11570.00	47.0 AV	54.0	-7.0	1.35 H	294	37.3	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	#5640.00	58.3 PK	68.2	-9.9	1.37 V	53	54.2	4.1
2	*5785.00	111.2 PK			1.37 V	53	68.5	42.7
3	*5785.00	103.7 AV			1.37 V	53	61.0	42.7
4	#5948.80	59.5 PK	68.2	-8.7	1.37 V	53	54.7	4.8
5	11570.00	56.0 PK	74.0	-18.0	2.25 V	164	46.3	9.7
6	11570.00	46.5 AV	54.0	-7.5	2.25 V	164	36.8	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	802.11a	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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.40	60.1 PK	68.2	-8.1	2.31 H	354	56.2	3.9
2	*5825.00	118.8 PK			2.31 H	354	76.1	42.7
3	*5825.00	111.9 AV			2.31 H	354	69.2	42.7
4	#5924.80	62.7 PK	68.3	-5.6	2.31 H	354	57.9	4.8
5	11650.00	57.0 PK	74.0	-17.0	1.62 H	323	47.0	10.0
6	11650.00	47.4 AV	54.0	-6.6	1.62 H	323	37.4	10.0
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	#5625.20	57.6 PK	68.2	-10.6	1.37 V	52	53.8	3.8
2	*5825.00	110.8 PK			1.37 V	52	68.1	42.7
3	*5825.00	103.2 AV			1.37 V	52	60.5	42.7
4	#5955.20	59.0 PK	68.2	-9.2	1.37 V	52	54.2	4.8
5	11650.00	56.2 PK	74.0	-17.8	2.27 V	189	46.2	10.0
6	11650.00	46.8 AV	54.0	-7.2	2.27 V	189	36.8	10.0

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5616.80	63.1 PK	68.2	-5.1	1.52 H	174	59.3	3.8
2	*5745.00	119.5 PK			1.52 H	174	77.1	42.4
3	*5745.00	109.3 AV			1.52 H	174	66.9	42.4
4	#5953.20	59.8 PK	68.2	-8.4	1.52 H	174	55.0	4.8
5	11490.00	56.6 PK	74.0	-17.4	1.68 H	284	46.8	9.8
6	11490.00	47.1 AV	54.0	-6.9	1.68 H	284	37.3	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	#5638.40	60.7 PK	68.2	-7.5	3.99 V	83	56.7	4.0
2	*5745.00	111.3 PK			3.99 V	83	68.9	42.4
3	*5745.00	101.1 AV			3.99 V	83	58.7	42.4
4	#5948.80	59.0 PK	68.2	-9.2	3.99 V	83	54.2	4.8
5	11490.00	56.1 PK	74.0	-17.9	2.34 V	197	46.3	9.8
6	11490.00	46.6 AV	54.0	-7.4	2.34 V	197	36.8	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 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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.20	61.3 PK	68.2	-6.9	1.53 H	178	57.1	4.2
2	*5785.00	120.1 PK			1.53 H	178	77.4	42.7
3	*5785.00	109.9 AV			1.53 H	178	67.2	42.7
4	#5928.00	61.9 PK	68.2	-6.3	1.53 H	178	57.1	4.8
5	11570.00	57.2 PK	74.0	-16.8	1.32 H	277	47.5	9.7
6	11570.00	47.3 AV	54.0	-6.7	1.32 H	277	37.6	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	#5641.60	58.8 PK	68.2	-9.4	1.37 V	52	54.7	4.1
2	*5785.00	112.5 PK			1.37 V	52	69.8	42.7
3	*5785.00	102.1 AV			1.37 V	52	59.4	42.7
4	#5939.20	58.6 PK	68.2	-9.6	1.37 V	52	53.8	4.8
5	11570.00	56.8 PK	74.0	-17.2	2.28 V	176	47.1	9.7
6	11570.00	46.9 AV	54.0	-7.1	2.28 V	176	37.2	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 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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.80	59.6 PK	68.2	-8.6	1.51 H	178	55.4	4.2
2	*5825.00	119.9 PK			1.51 H	178	77.2	42.7
3	*5825.00	109.4 AV			1.51 H	178	66.7	42.7
4	#5937.60	64.0 PK	68.2	-4.2	1.51 H	178	59.2	4.8
5	11650.00	57.8 PK	74.0	-16.2	1.49 H	283	47.8	10.0
6	11650.00	47.9 AV	54.0	-6.1	1.49 H	283	37.9	10.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.60	58.6 PK	68.2	-9.6	3.88 V	37	54.5	4.1
2	*5825.00	111.9 PK			3.88 V	37	69.2	42.7
3	*5825.00	102.2 AV			3.88 V	37	59.5	42.7
4	#5932.80	59.7 PK	68.2	-8.5	3.88 V	37	54.9	4.8
5	11650.00	57.0 PK	74.0	-17.0	2.15 V	173	47.0	10.0
6	11650.00	47.2 AV	54.0	-6.8	2.15 V	173	37.2	10.0

Remarks:

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

RF Mode	802.11ax (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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.60	63.3 PK	68.2	-4.9	1.51 H	179	59.1	4.2
2	*5755.00	116.9 PK			1.51 H	179	74.4	42.5
3	*5755.00	106.7 AV			1.51 H	179	64.2	42.5
4	#5928.00	61.1 PK	68.2	-7.1	1.51 H	179	56.3	4.8
5	11510.00	57.7 PK	74.0	-16.3	1.52 H	282	47.9	9.8
6	11510.00	47.6 AV	54.0	-6.4	1.52 H	282	37.8	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	#5644.40	59.0 PK	68.2	-9.2	1.51 V	172	54.8	4.2
2	*5755.00	108.8 PK			1.51 V	172	66.3	42.5
3	*5755.00	99.9 AV			1.51 V	172	57.4	42.5
4	#5939.20	58.5 PK	68.2	-9.7	1.51 V	172	53.7	4.8
5	11510.00	57.0 PK	74.0	-17.0	1.94 V	185	47.2	9.8
6	11510.00	47.1 AV	54.0	-6.9	1.94 V	185	37.3	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	802.11ax (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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.40	60.6 PK	68.5	-7.9	1.51 H	178	56.4	4.2
2	*5795.00	118.1 PK			1.51 H	178	75.4	42.7
3	*5795.00	108.2 AV			1.51 H	178	65.5	42.7
4	#5924.00	62.3 PK	68.9	-6.6	1.51 H	178	57.5	4.8
5	11590.00	57.7 PK	74.0	-16.3	1.46 H	309	47.9	9.8
6	11590.00	47.8 AV	54.0	-6.2	1.46 H	309	38.0	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	#5644.00	59.1 PK	68.2	-9.1	1.49 V	170	54.9	4.2
2	*5795.00	109.5 PK			1.49 V	170	66.8	42.7
3	*5795.00	99.9 AV			1.49 V	170	57.2	42.7
4	#5950.80	59.5 PK	68.2	-8.7	1.49 V	170	54.7	4.8
5	11590.00	56.8 PK	74.0	-17.2	2.14 V	176	47.0	9.8
6	11590.00	46.7 AV	54.0	-7.3	2.14 V	176	36.9	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 (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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.60	67.7 PK	68.2	-0.5	1.55 H	176	63.5	4.2
2	*5775.00	113.0 PK			1.55 H	176	70.4	42.6
3	*5775.00	102.2 AV			1.55 H	176	59.6	42.6
4	#5926.00	63.6 PK	68.2	-4.6	1.55 H	176	58.8	4.8
5	11550.00	57.4 PK	74.0	-16.6	1.37 H	302	47.6	9.8
6	11550.00	47.2 AV	54.0	-6.8	1.37 H	302	37.4	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	#5644.00	60.9 PK	68.2	-7.3	1.40 V	172	56.7	4.2
2	*5775.00	104.7 PK			1.40 V	172	62.1	42.6
3	*5775.00	95.6 AV			1.40 V	172	53.0	42.6
4	#5935.60	60.1 PK	68.2	-8.1	1.40 V	172	55.3	4.8
5	11550.00	56.7 PK	74.0	-17.3	2.18 V	176	46.9	9.8
6	11550.00	46.6 AV	54.0	-7.4	2.18 V	176	36.8	9.8

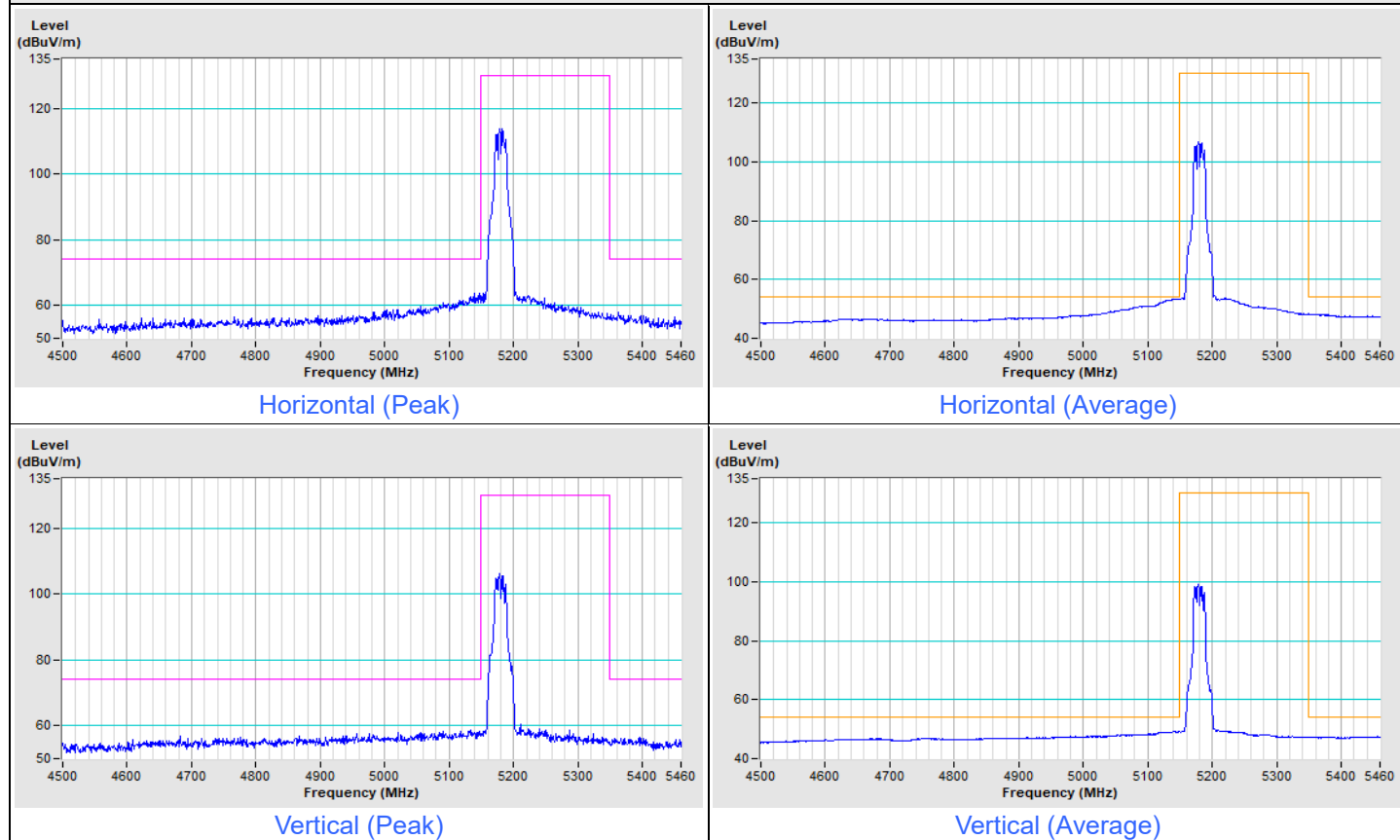
Remarks:

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.

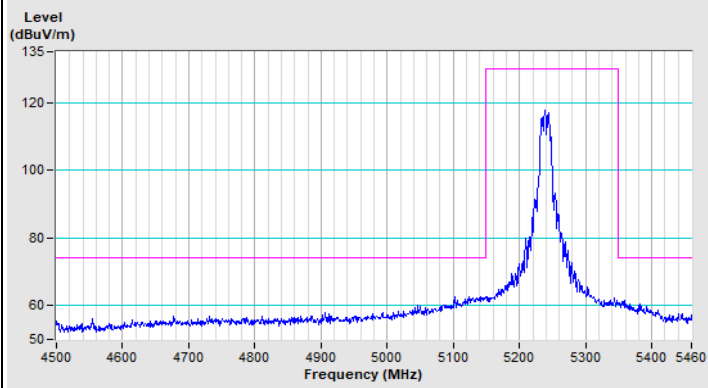
Plot of Band Edge

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=10 Hz, DET=Peak
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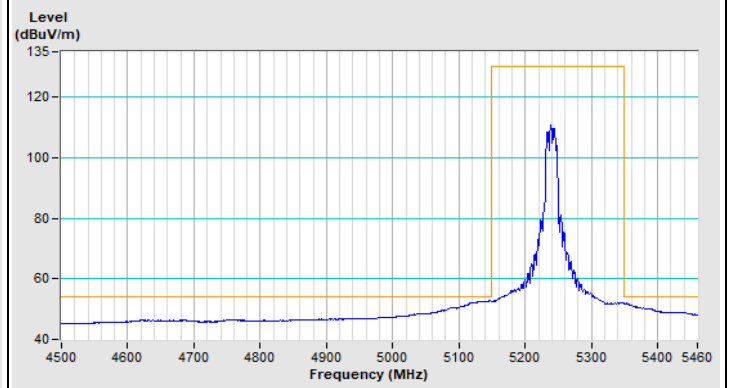
802.11a Channel 36



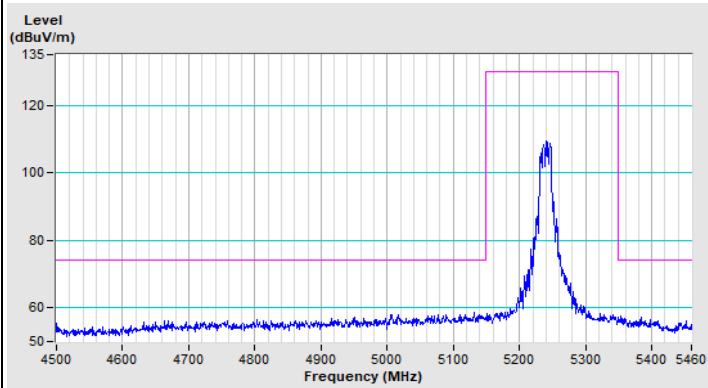
802.11a Channel 48



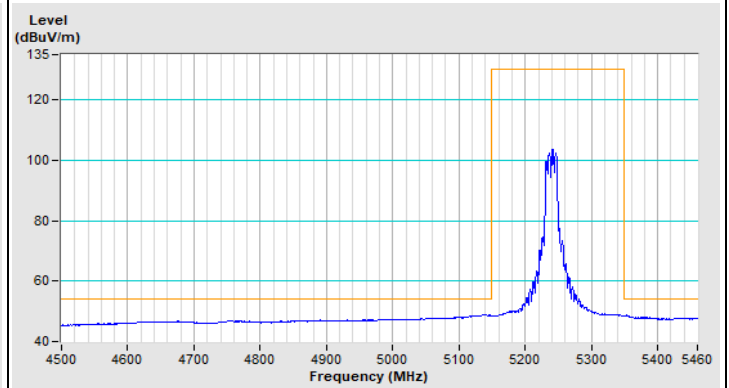
Horizontal (Peak)



Horizontal (Average)



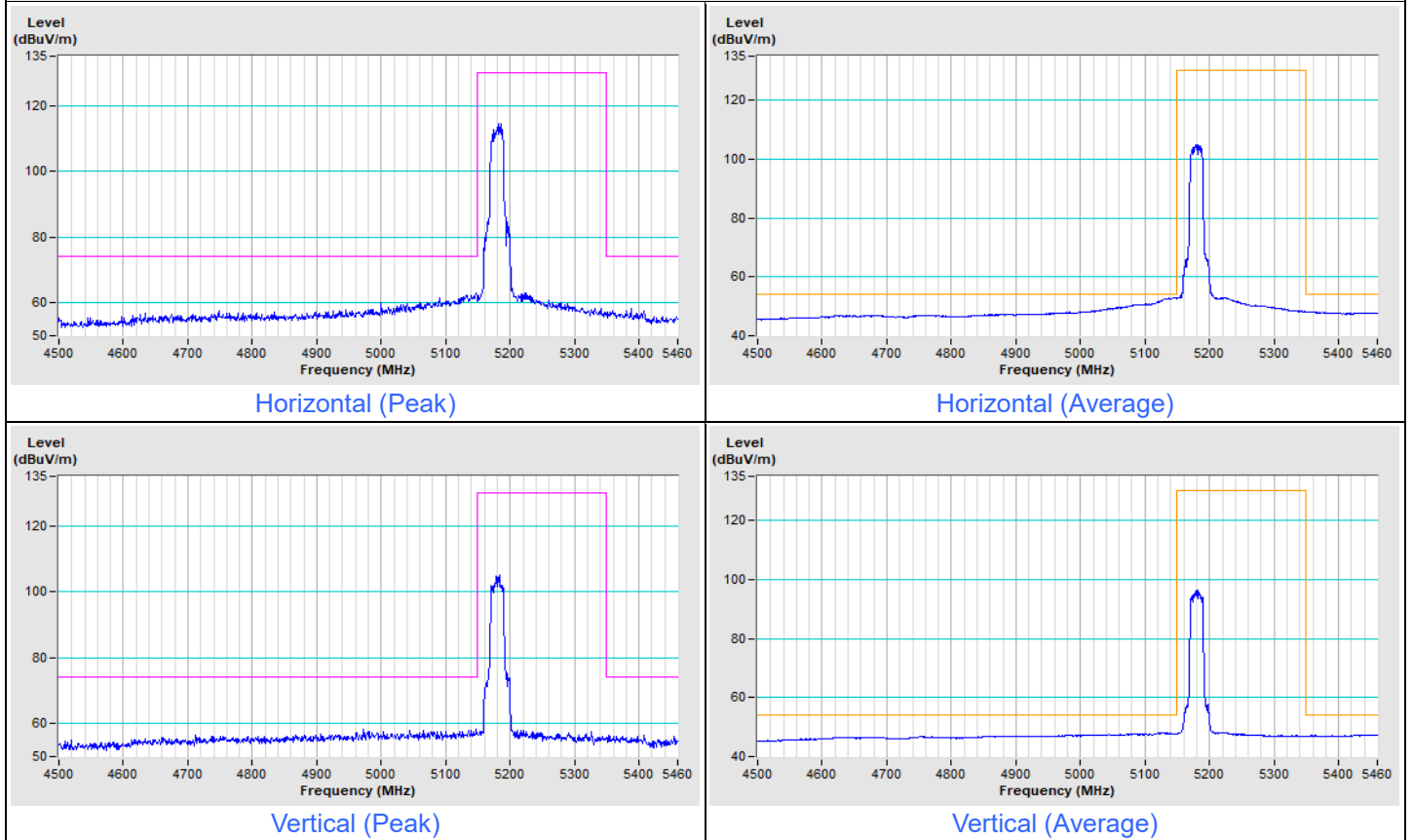
Vertical (Peak)



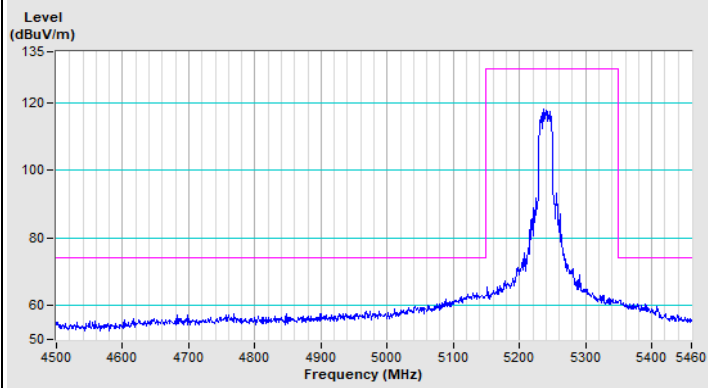
Vertical (Average)

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=10 Hz, DET=Peak
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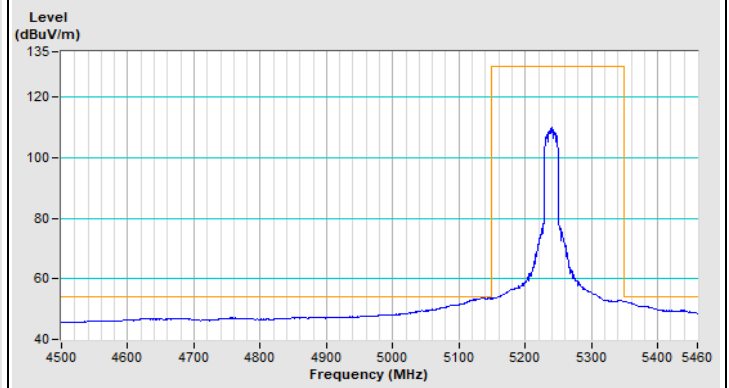
802.11ax (HE20) Channel 36



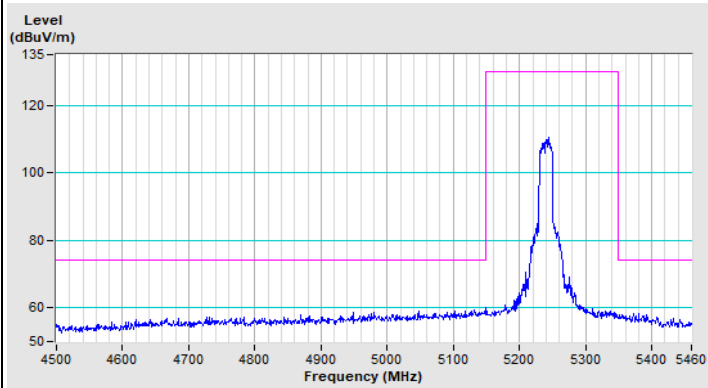
802.11ax (HE20) Channel 48



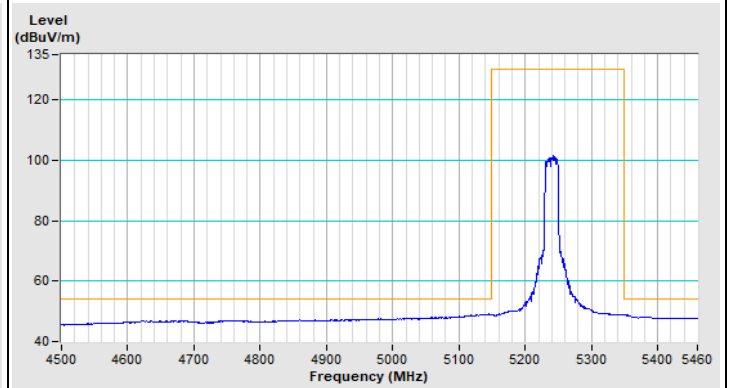
Horizontal (Peak)



Horizontal (Average)



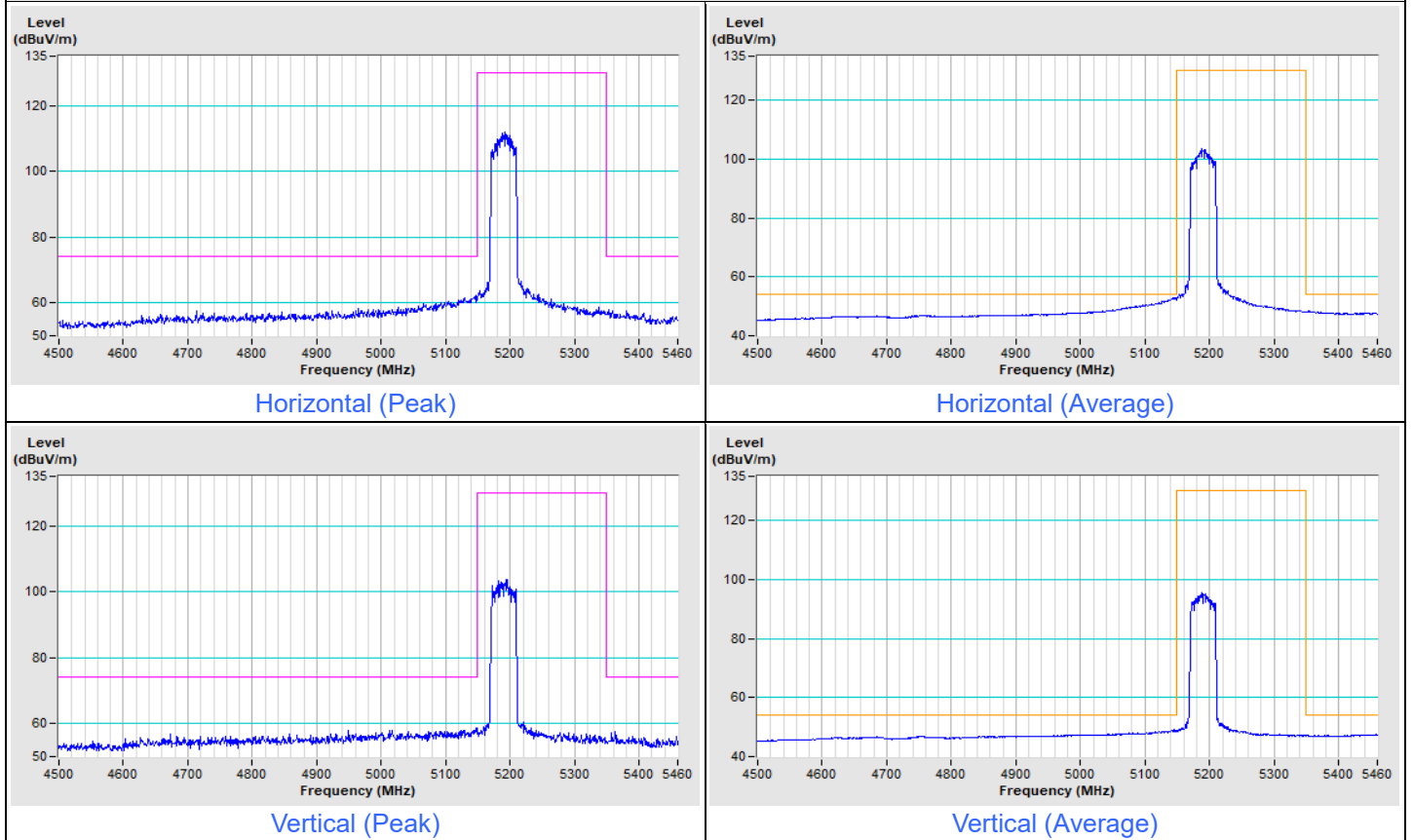
Vertical (Peak)

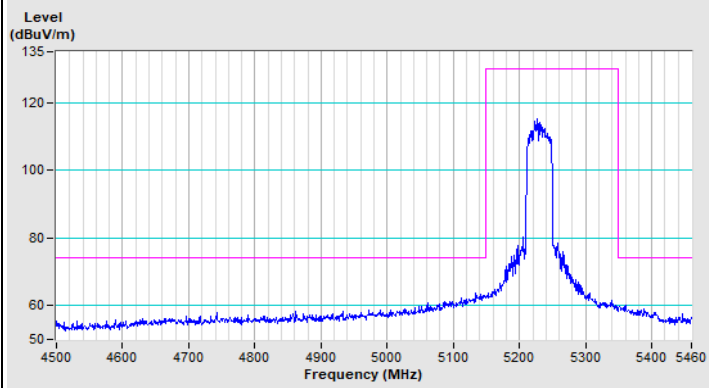


Vertical (Average)

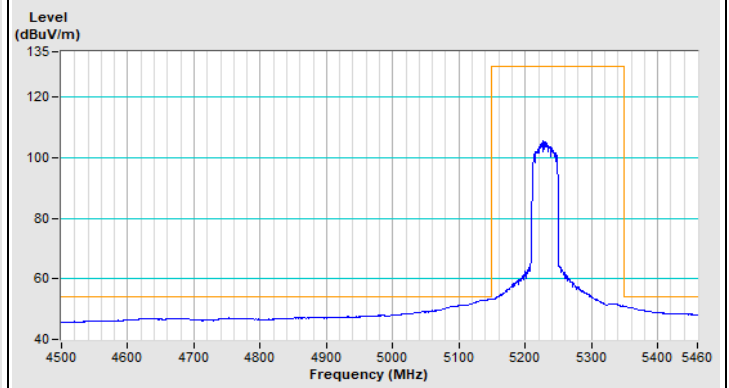
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE40) Channel 38

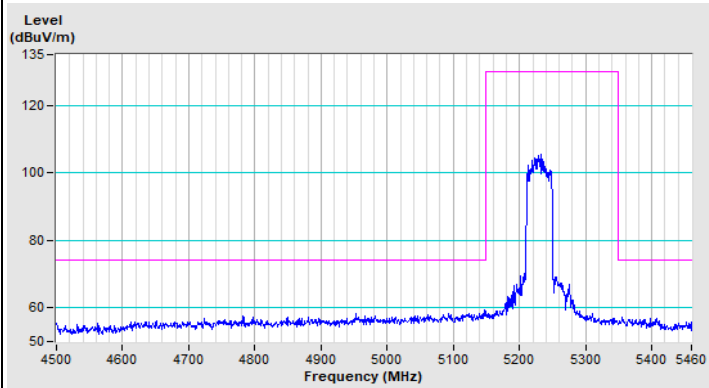


802.11ax (HE40) Channel 46

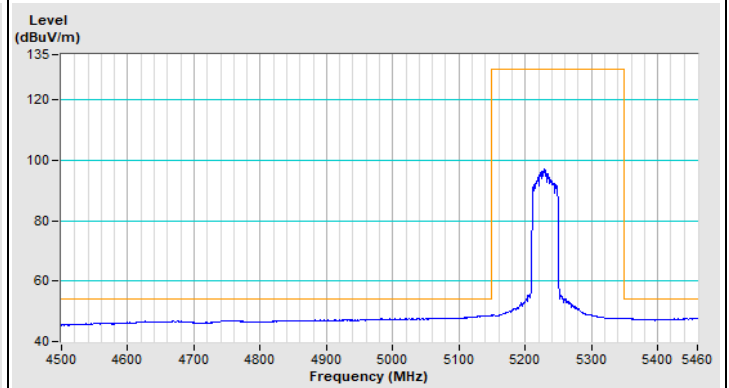
Horizontal (Peak)



Horizontal (Average)



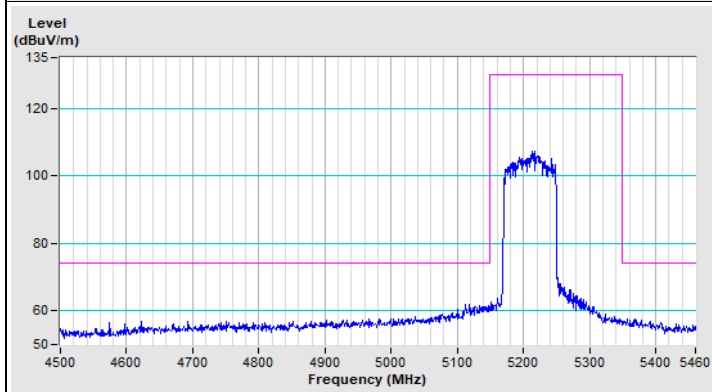
Vertical (Peak)



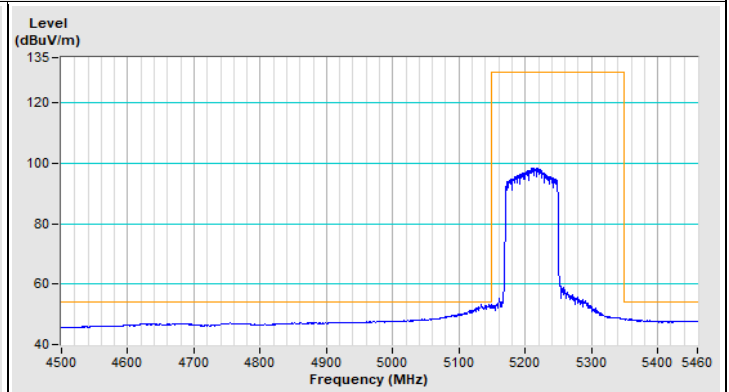
Vertical (Average)

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=10 Hz, DET=Peak
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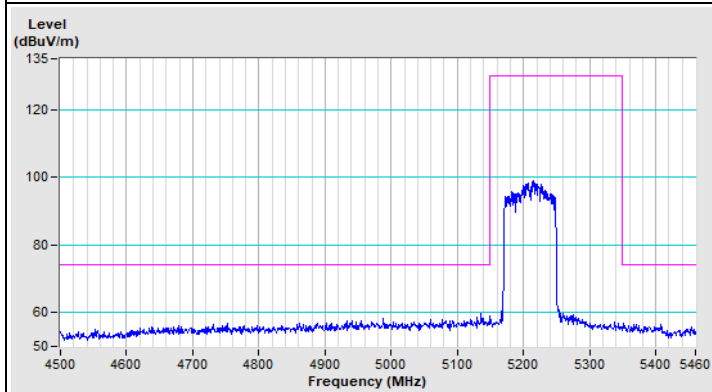
802.11ax (HE80) Channel 42



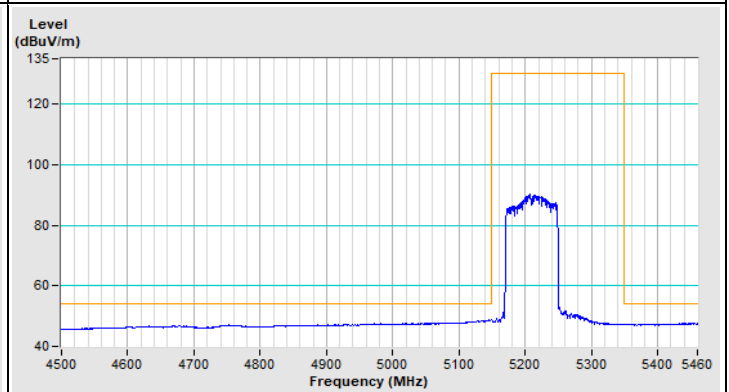
Horizontal (Peak)



Horizontal (Average)



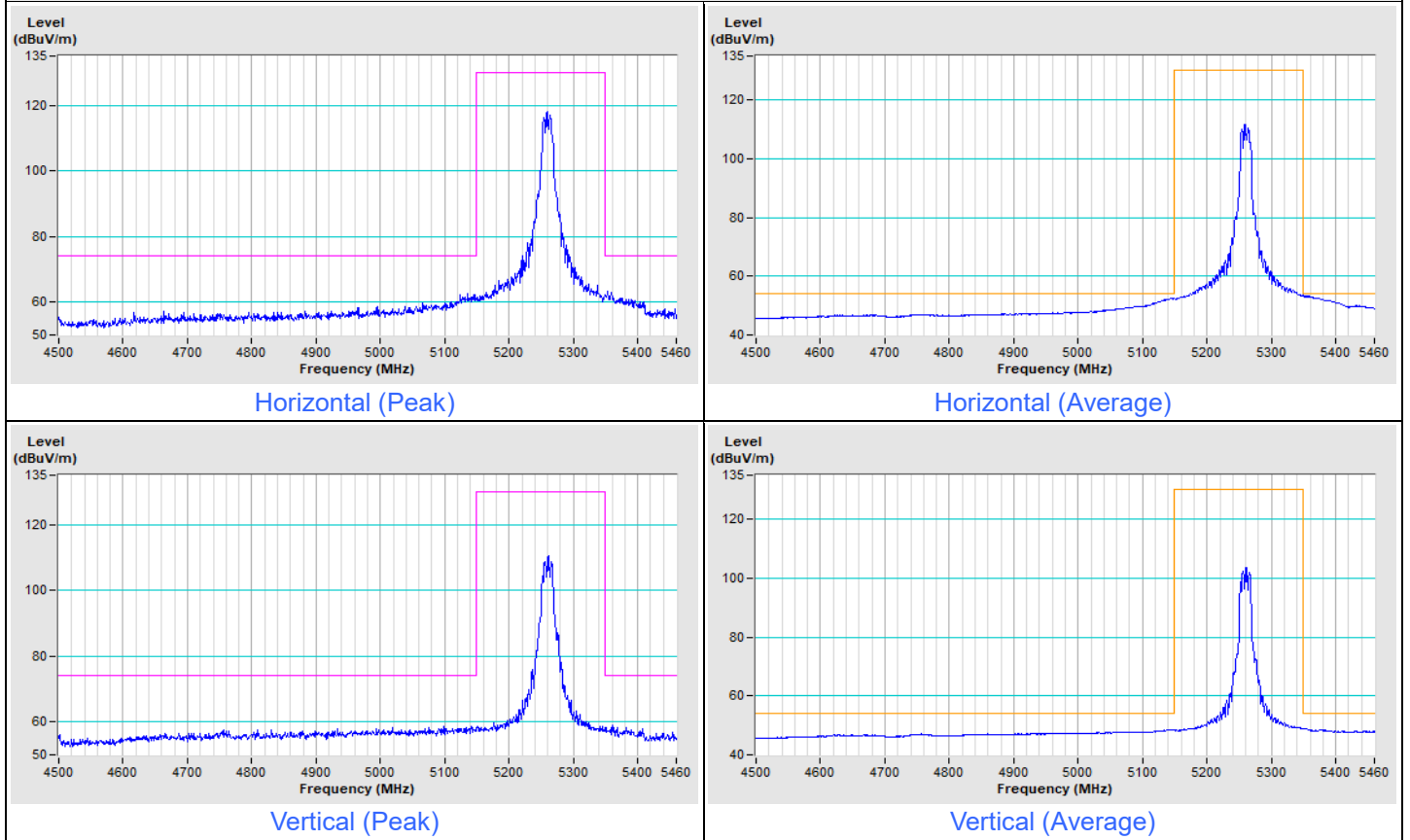
Vertical (Peak)

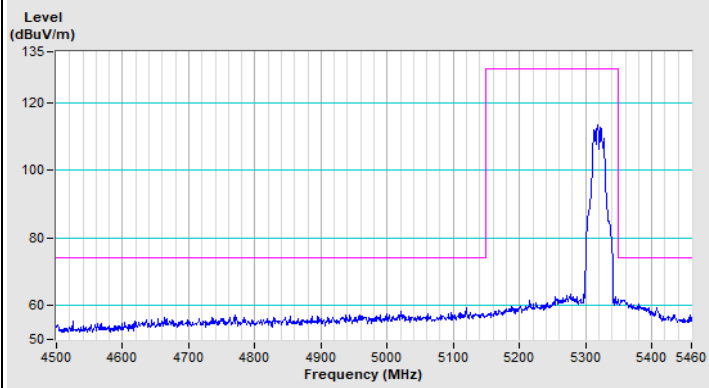


Vertical (Average)

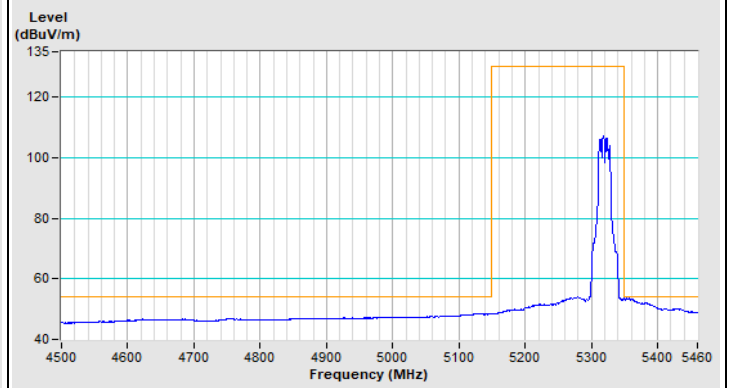
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11a Channel 52

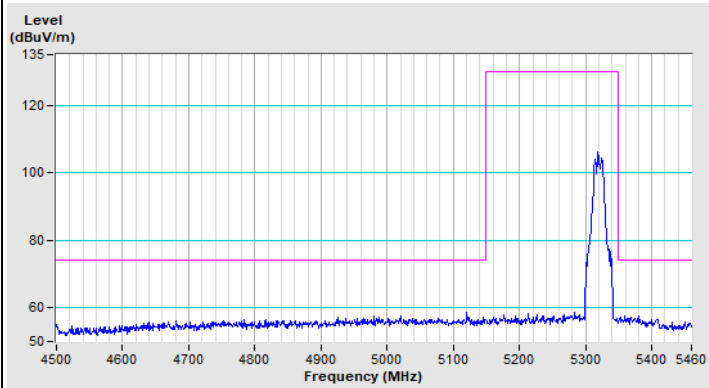


802.11a Channel 64

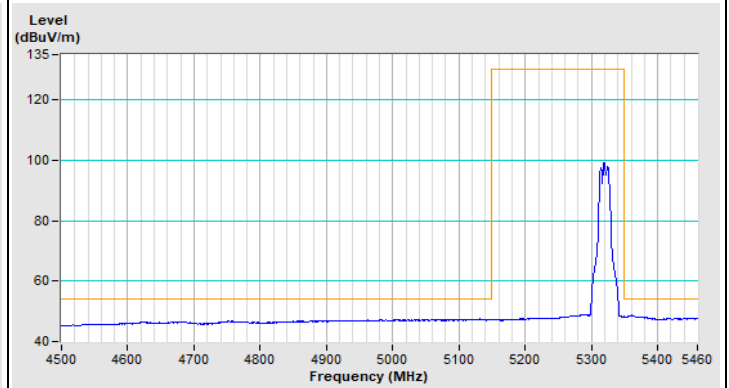
Horizontal (Peak)



Horizontal (Average)



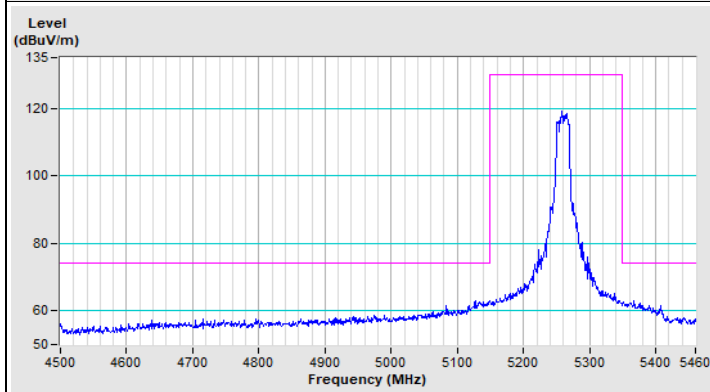
Vertical (Peak)



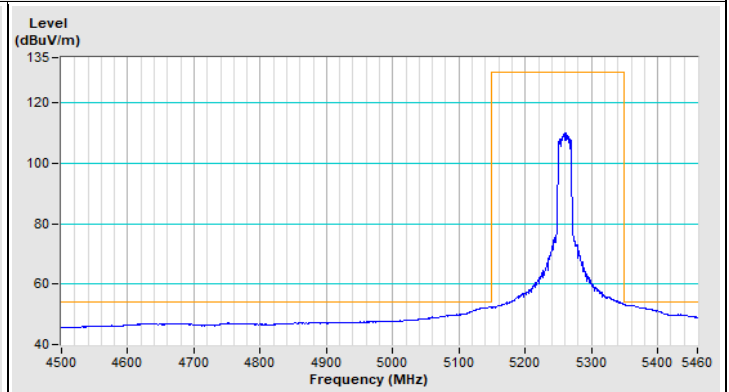
Vertical (Average)

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=10 Hz, DET=Peak
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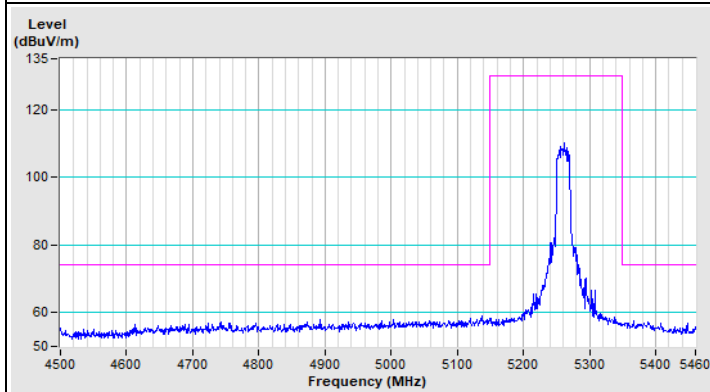
802.11ax (HE20) Channel 52



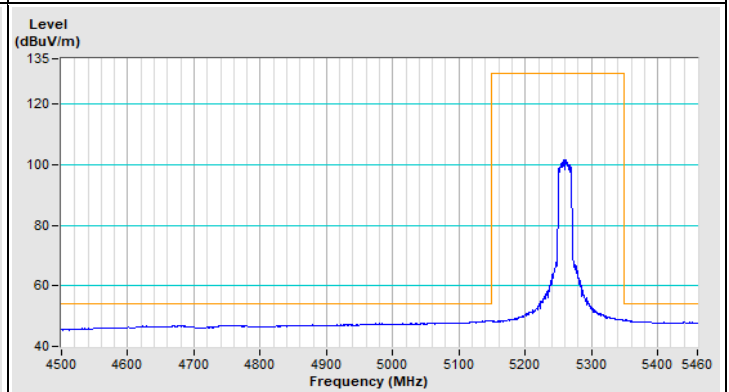
Horizontal (Peak)



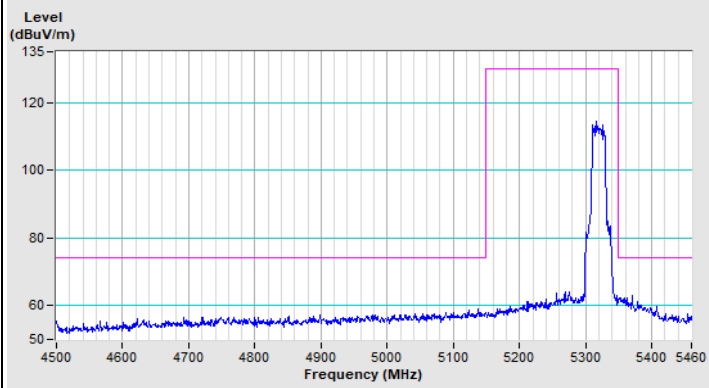
Horizontal (Average)



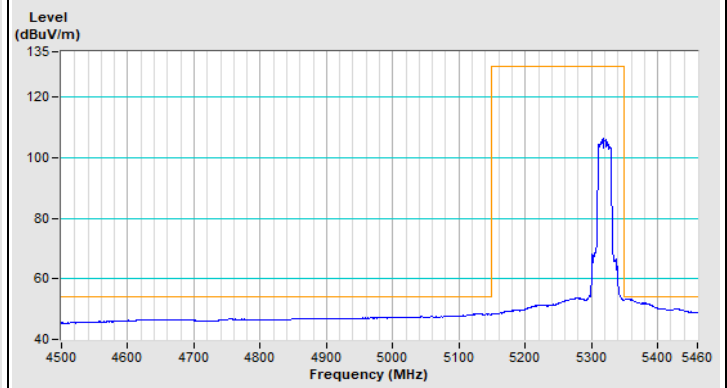
Vertical (Peak)



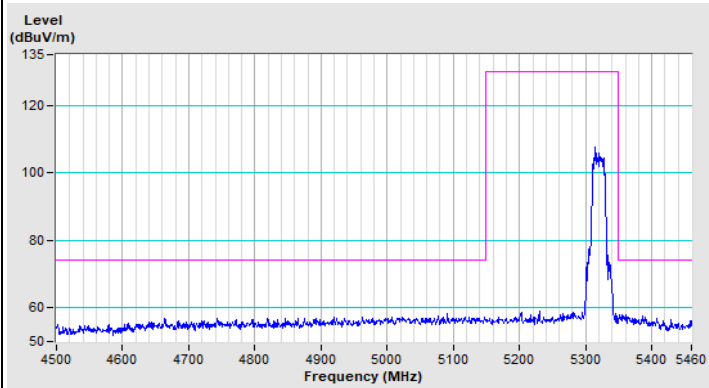
Vertical (Average)

802.11ax (HE20) Channel 64

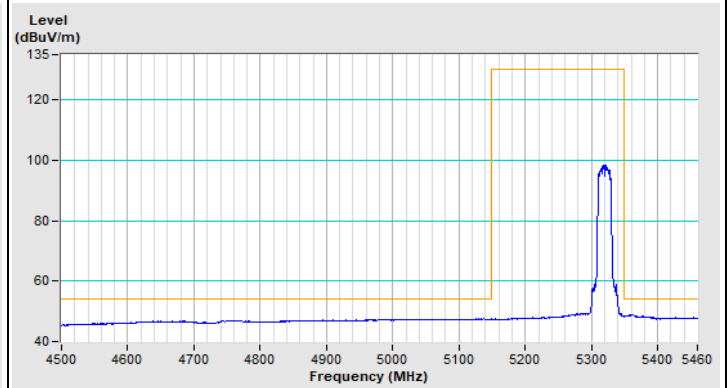
Horizontal (Peak)



Horizontal (Average)



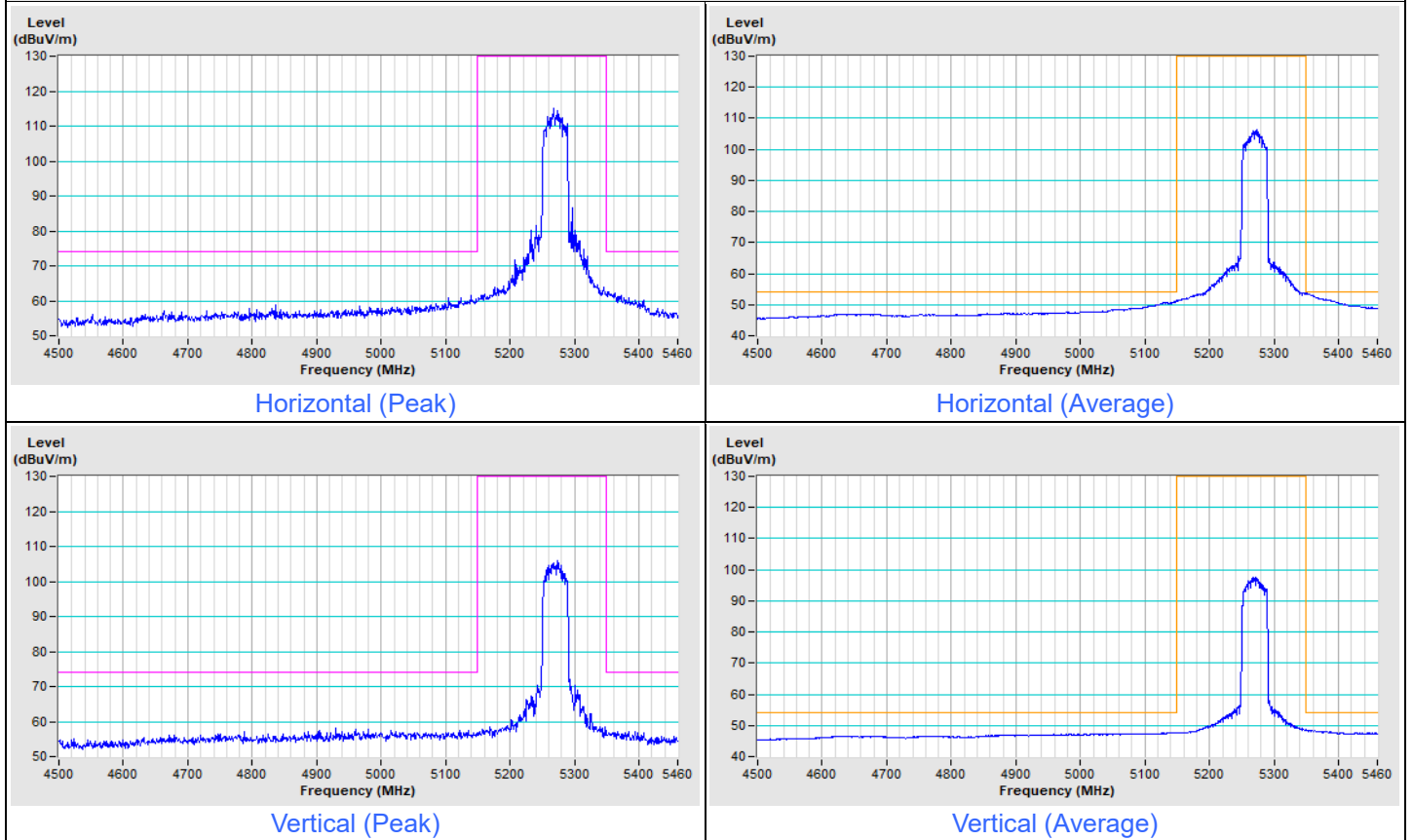
Vertical (Peak)

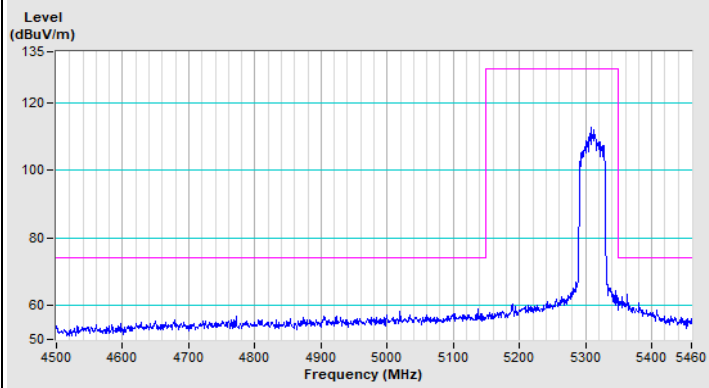


Vertical (Average)

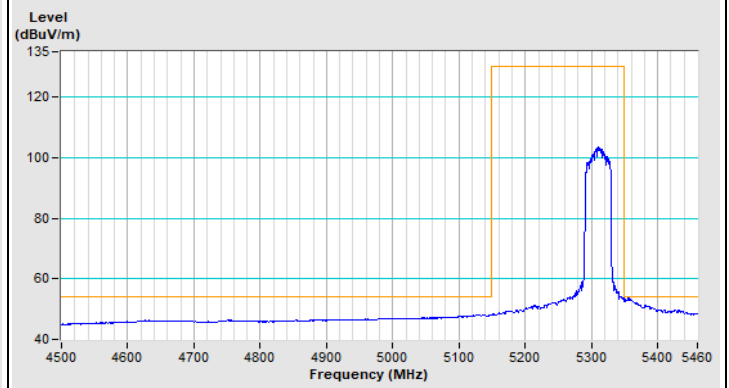
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE40) Channel 54

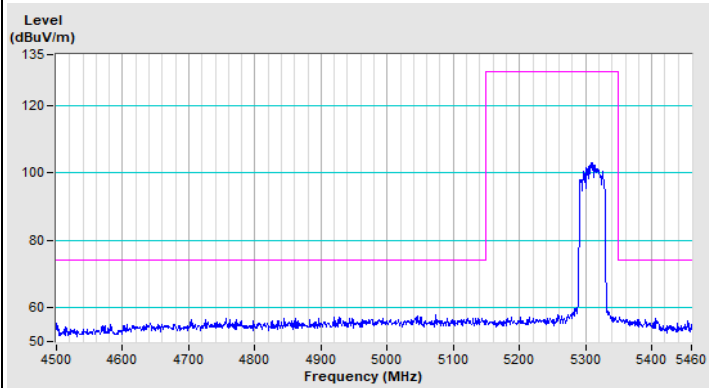


802.11ax (HE40) Channel 62

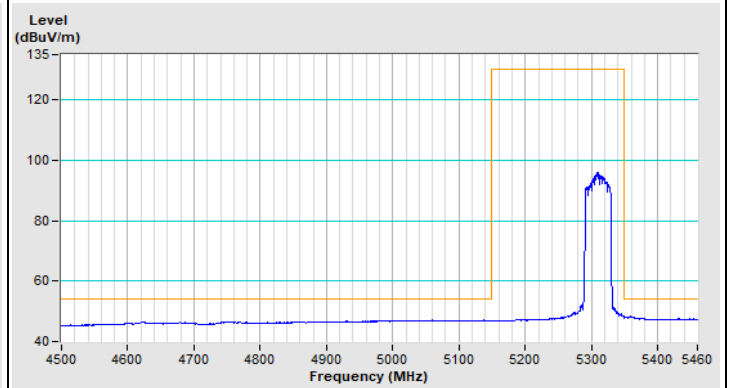
Horizontal (Peak)



Horizontal (Average)



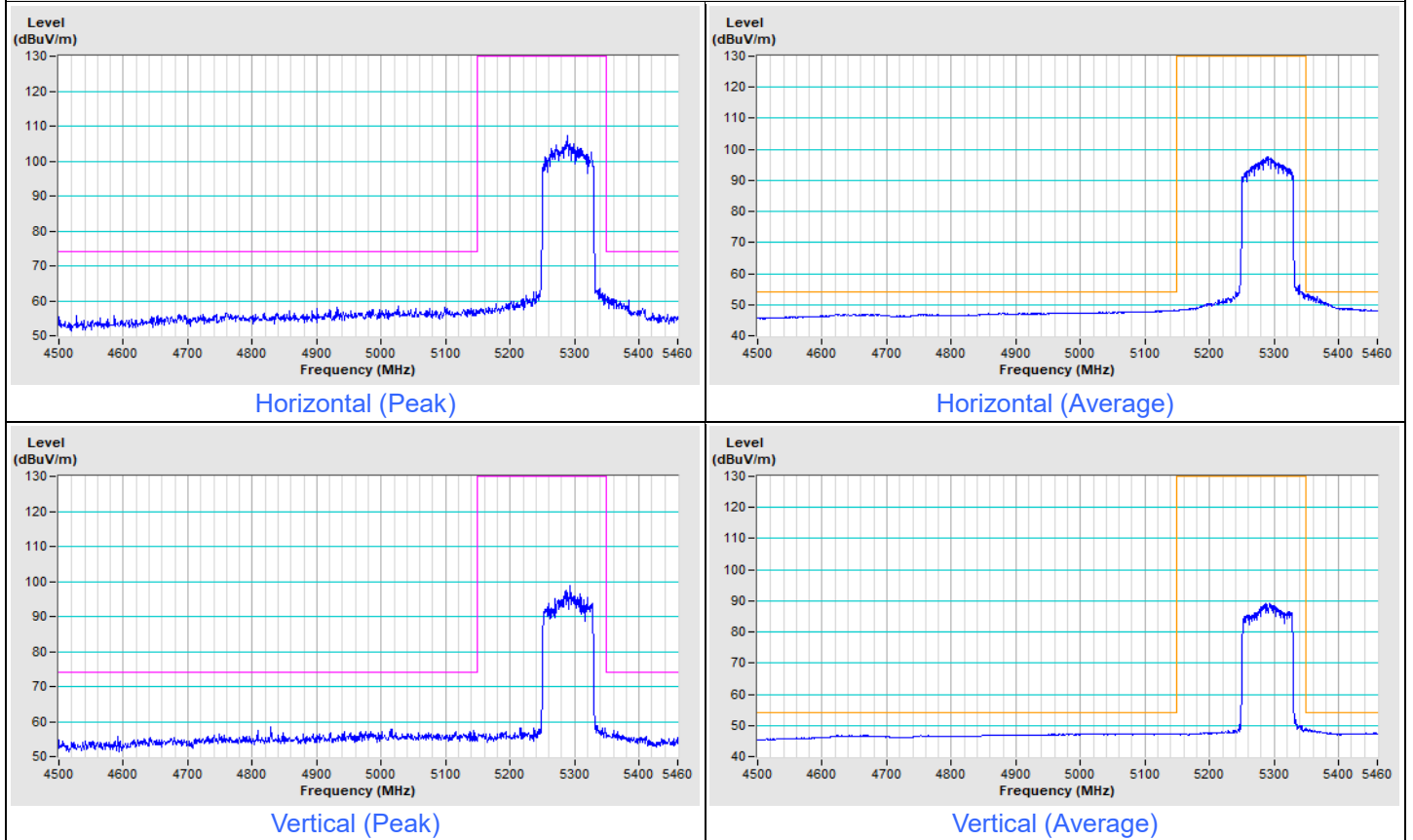
Vertical (Peak)



Vertical (Average)

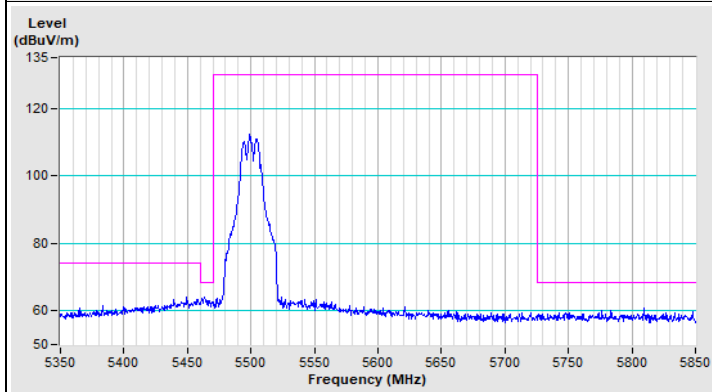
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE80) Channel 58

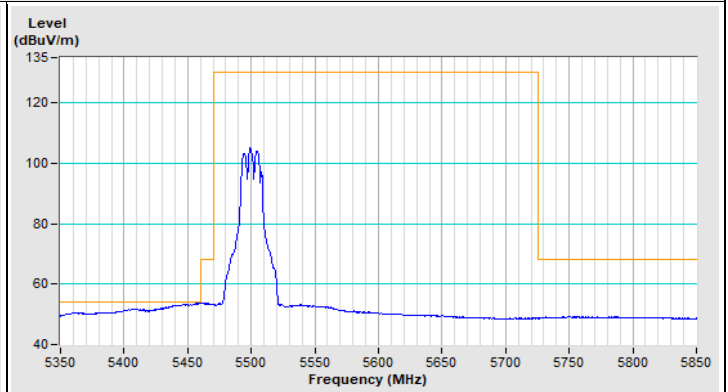


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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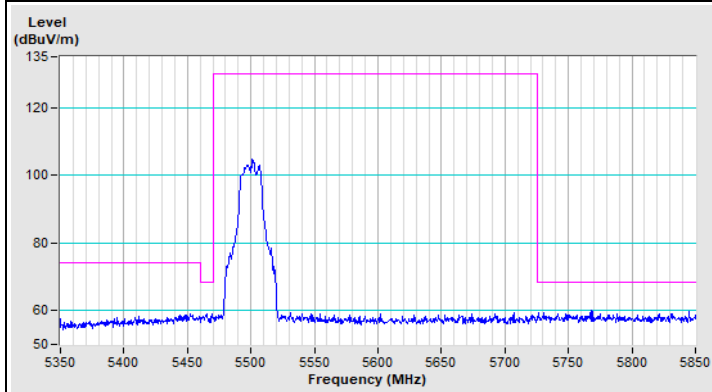
802.11a Channel 100



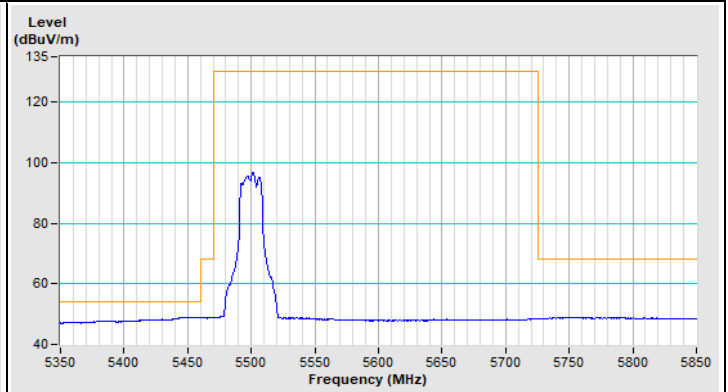
Horizontal (Peak)



Horizontal (Average)

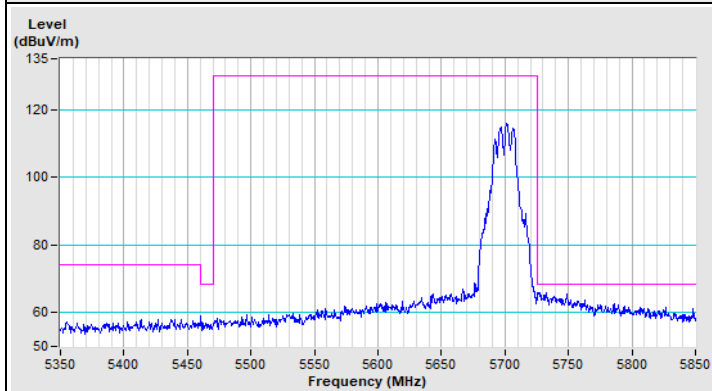


Vertical (Peak)

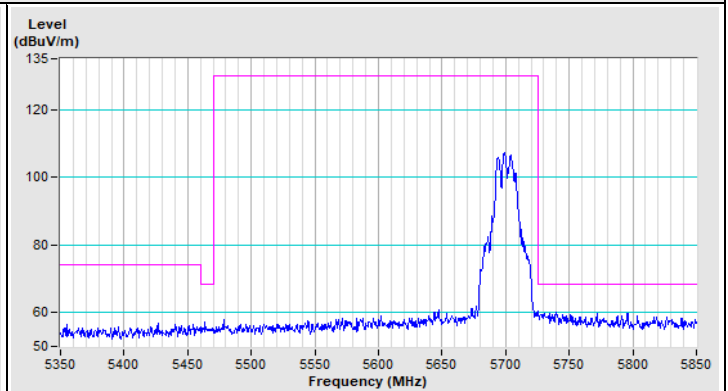


Vertical (Average)

802.11a Channel 140



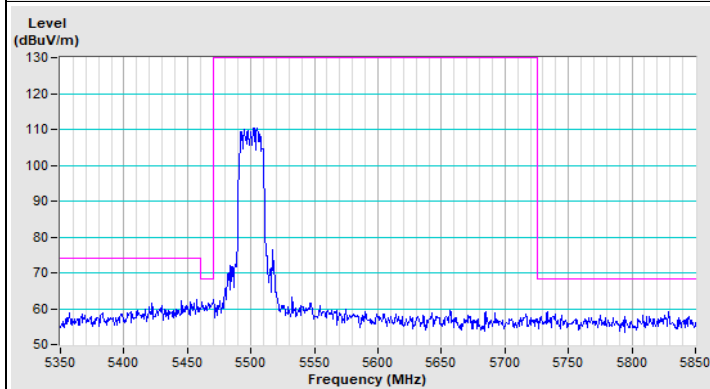
Horizontal (Peak)



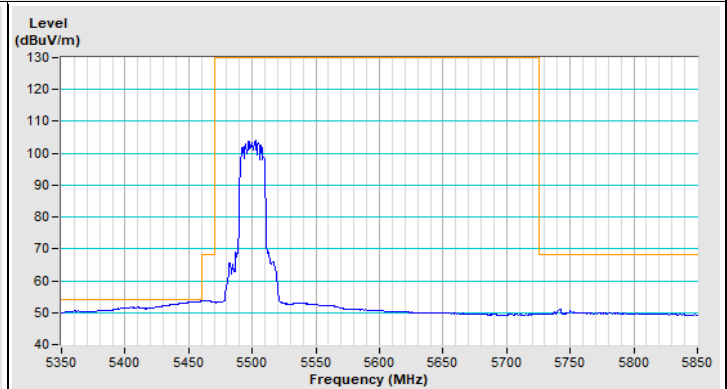
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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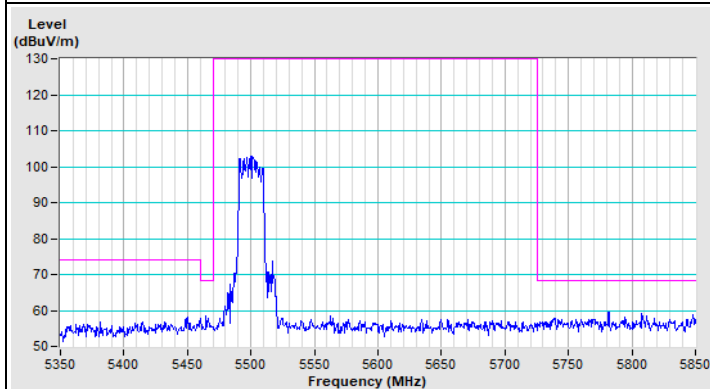
802.11ax (HE20) Channel 100



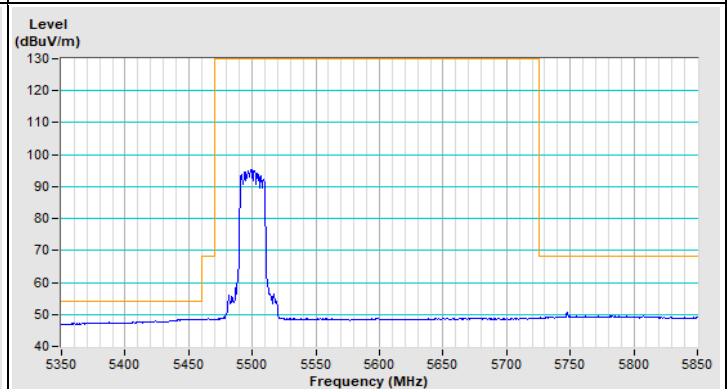
Horizontal (Peak)



Horizontal (Average)

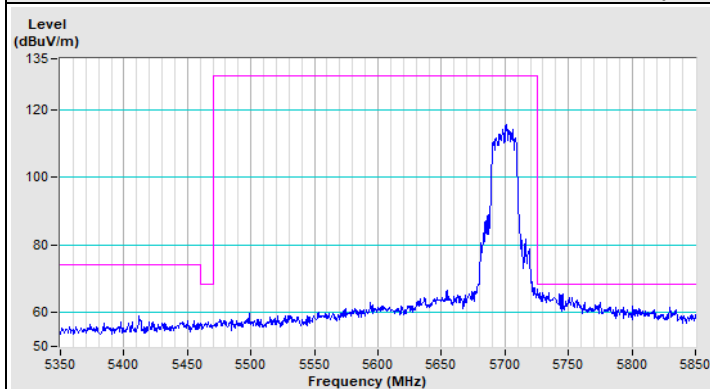


Vertical (Peak)

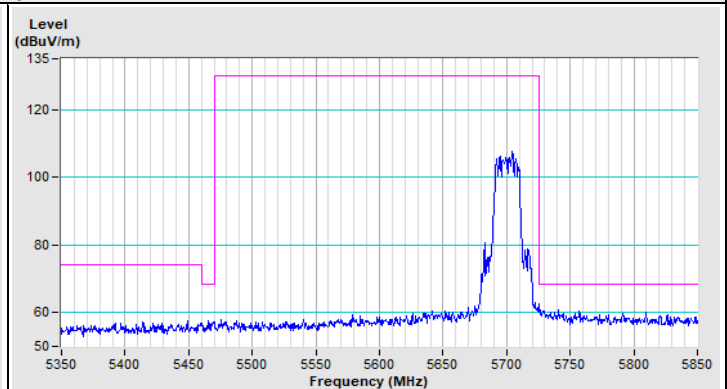


Vertical (Average)

802.11ax (HE20) Channel 140



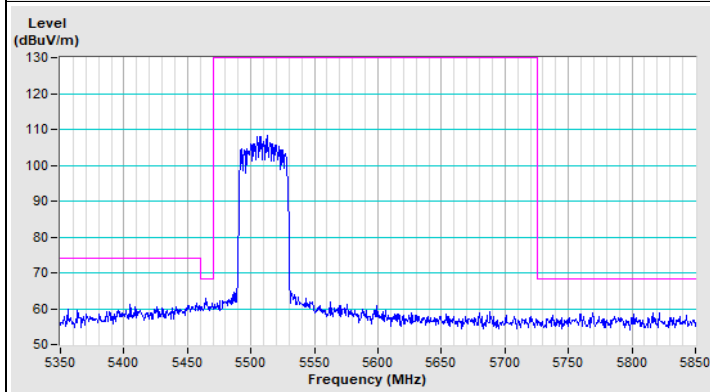
Horizontal (Peak)



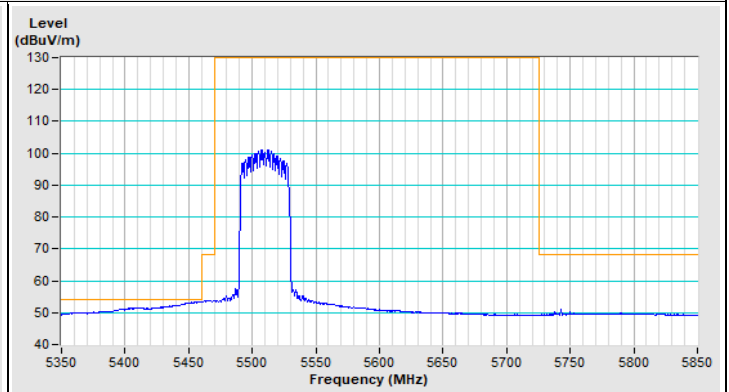
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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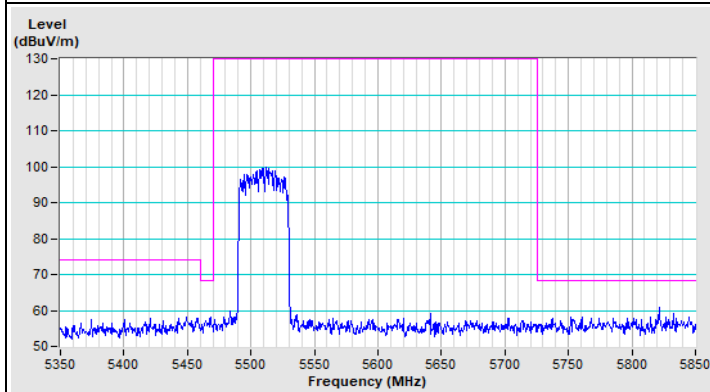
802.11ax (HE40) Channel 102



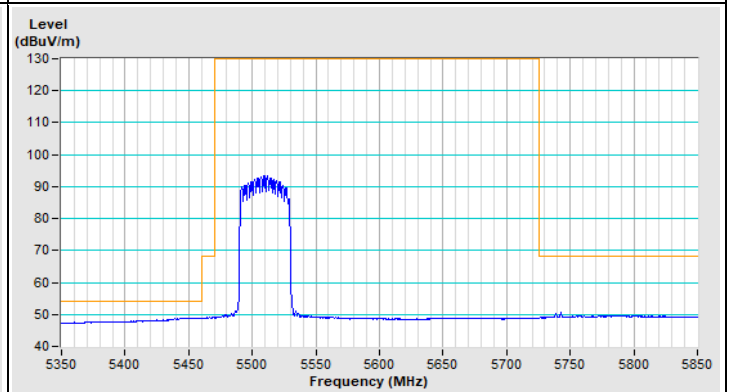
Horizontal (Peak)



Horizontal (Average)

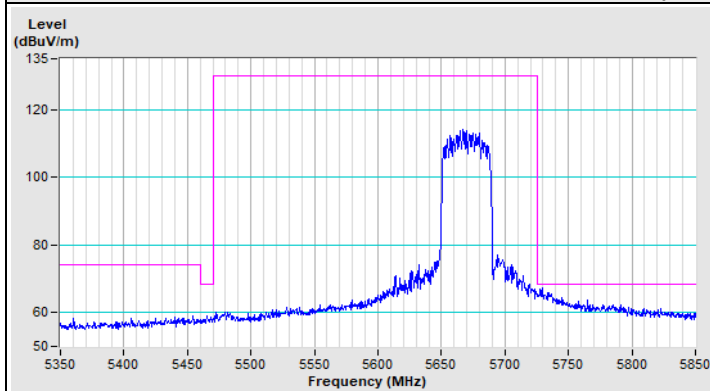


Vertical (Peak)

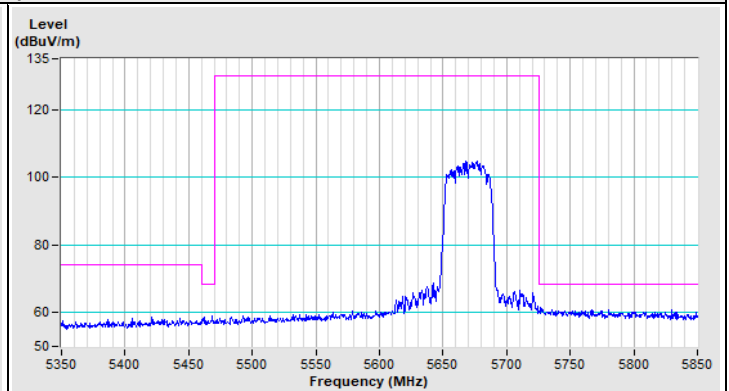


Vertical (Average)

802.11ax (HE40) Channel 134



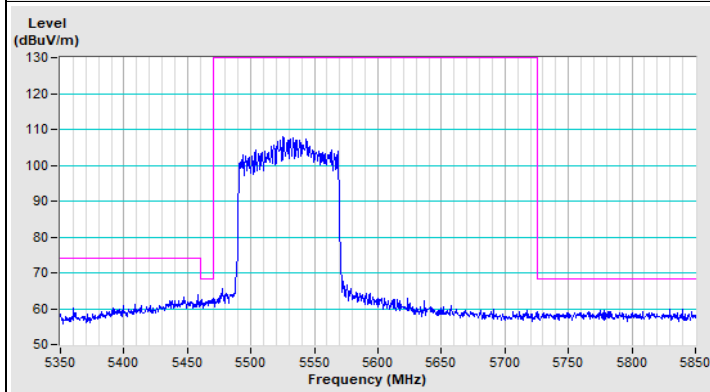
Horizontal (Peak)



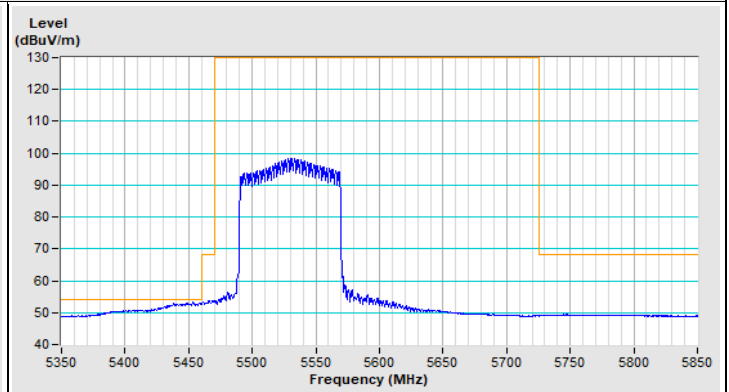
Vertical (Peak)

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=10 Hz, DET=Peak
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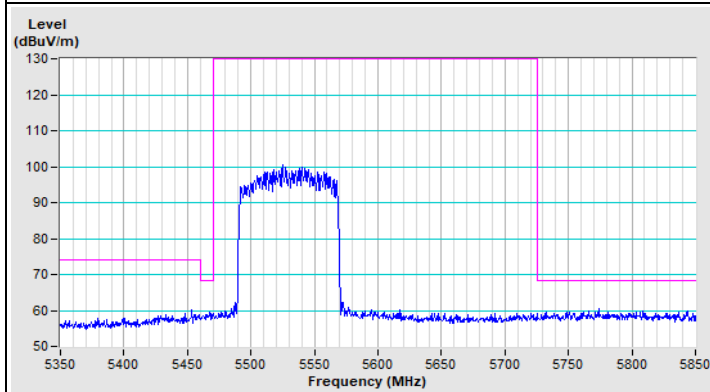
802.11ax (HE80) Channel 106



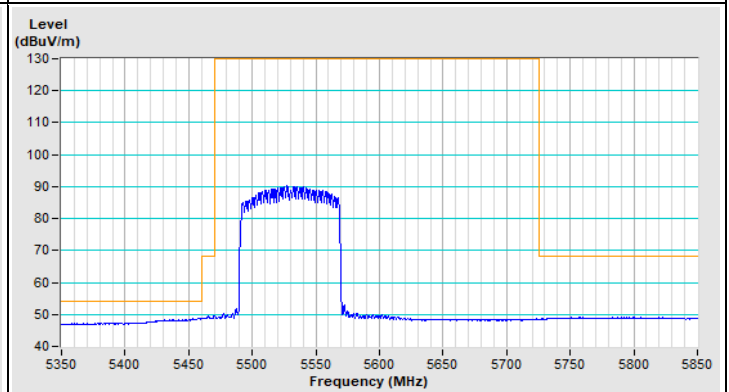
Horizontal (Peak)



Horizontal (Average)

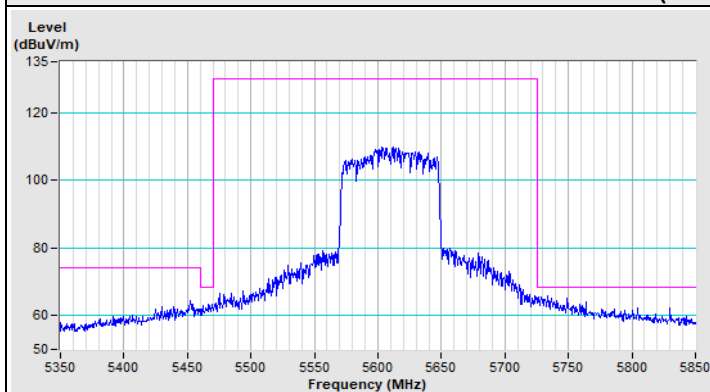


Vertical (Peak)

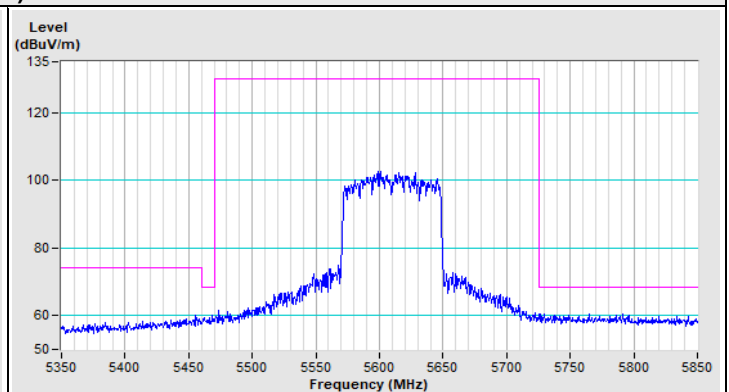


Vertical (Average)

802.11ax (HE80) Channel 122



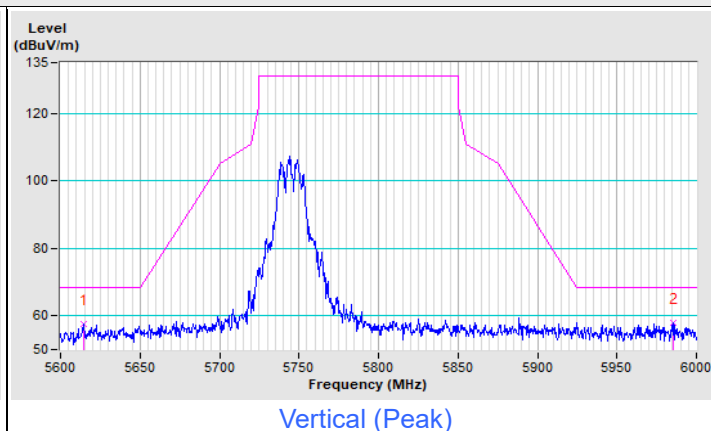
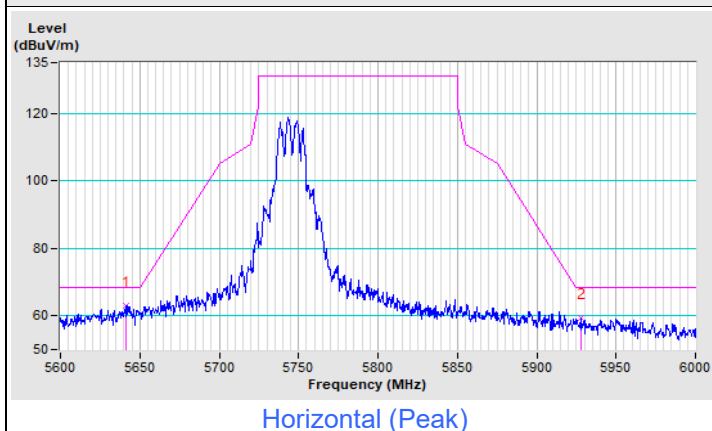
Horizontal (Peak)



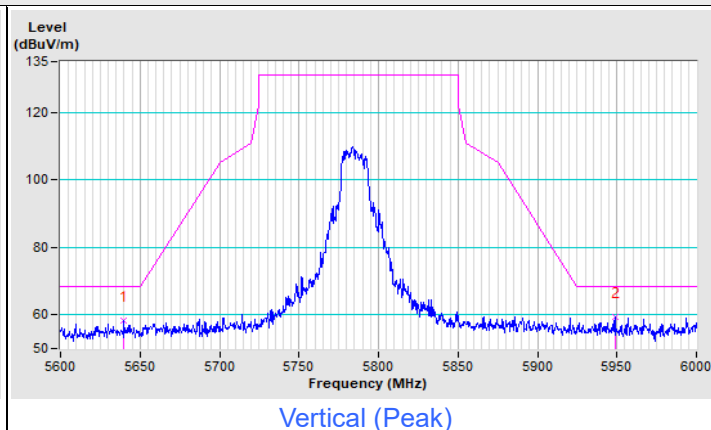
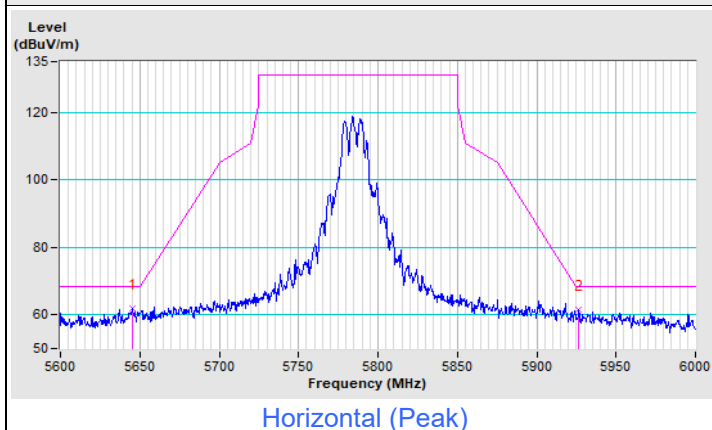
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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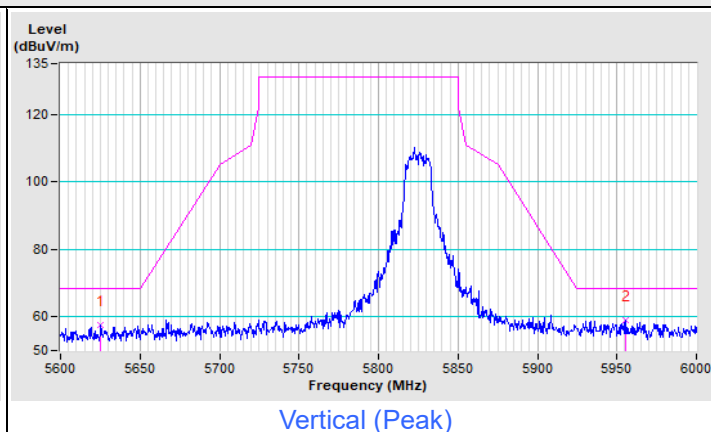
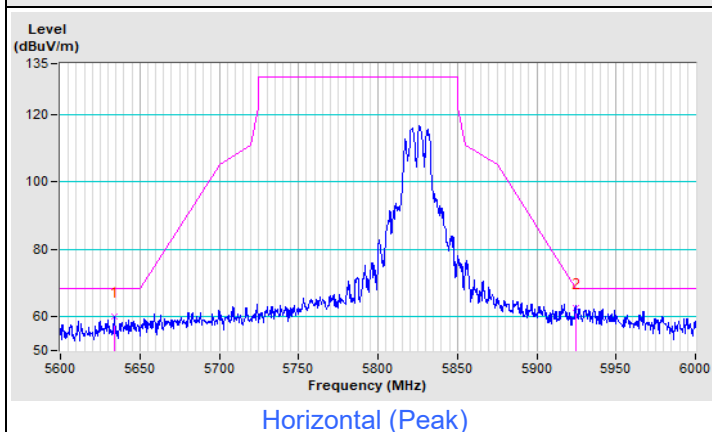
802.11a Channel 149



802.11a Channel 157

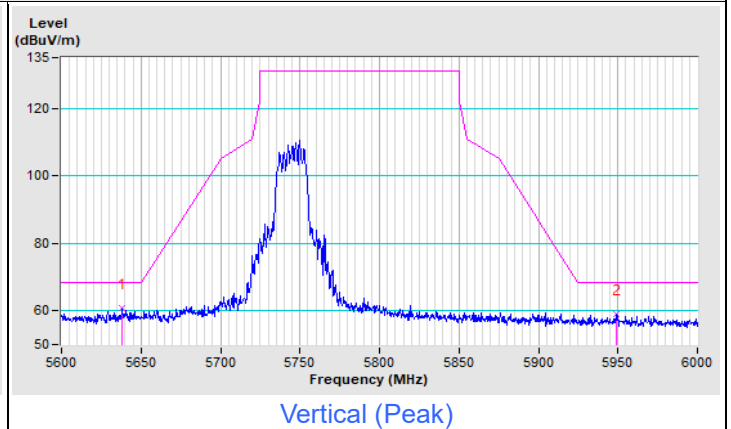
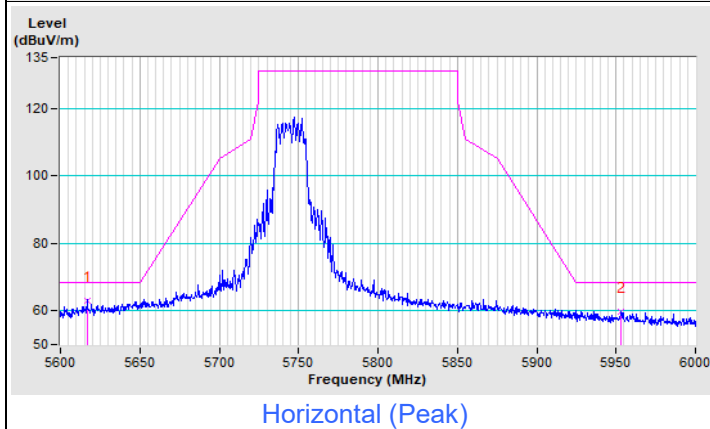


802.11a Channel 165

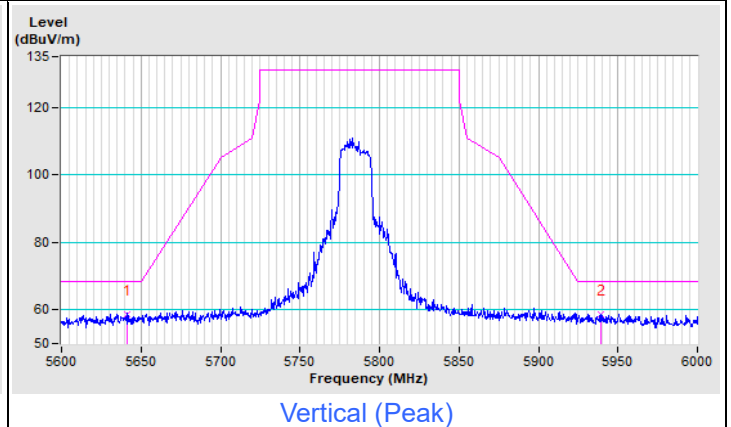
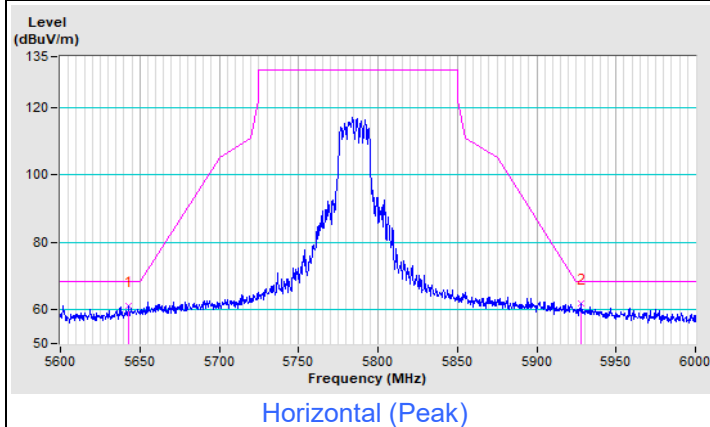


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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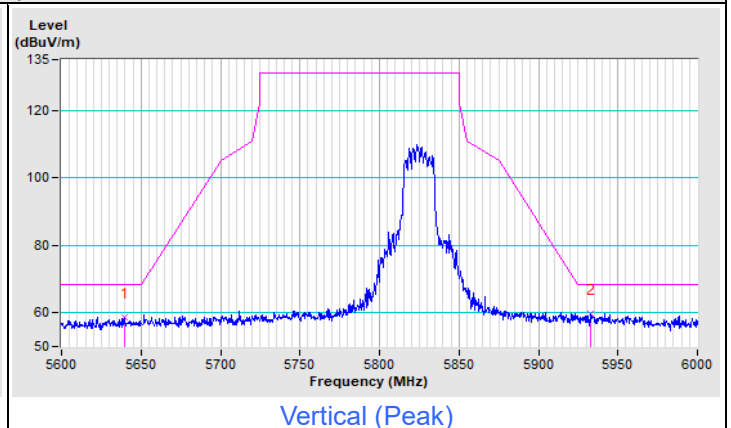
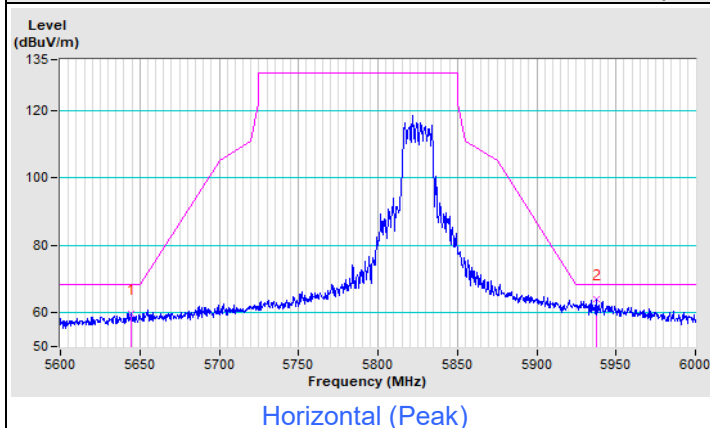
802.11ax (HE20) Channel 149



802.11ax (HE20) Channel 157

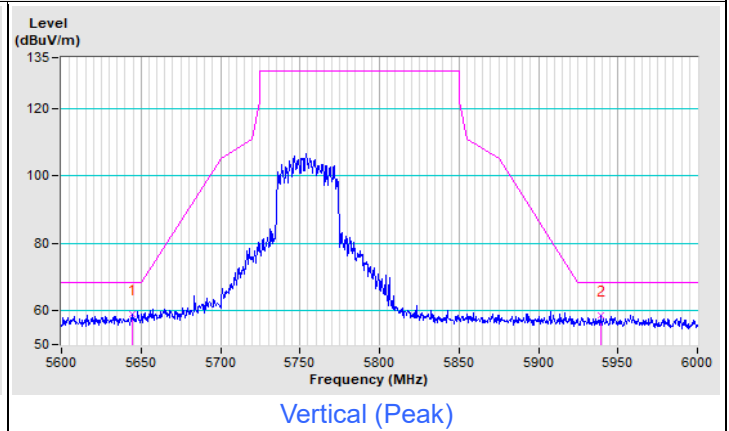
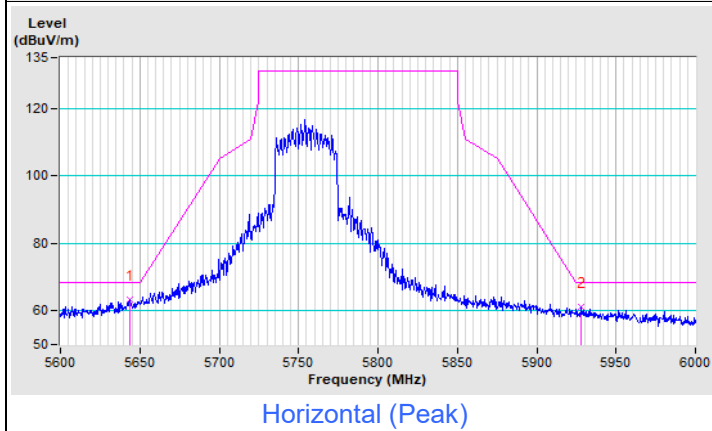


802.11ax (HE20) Channel 165

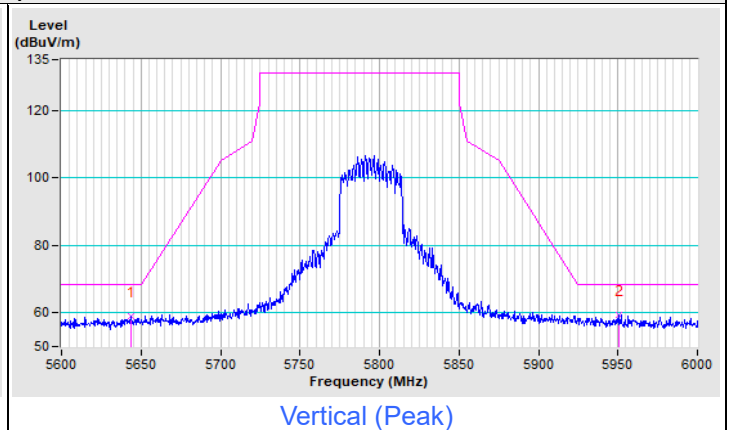
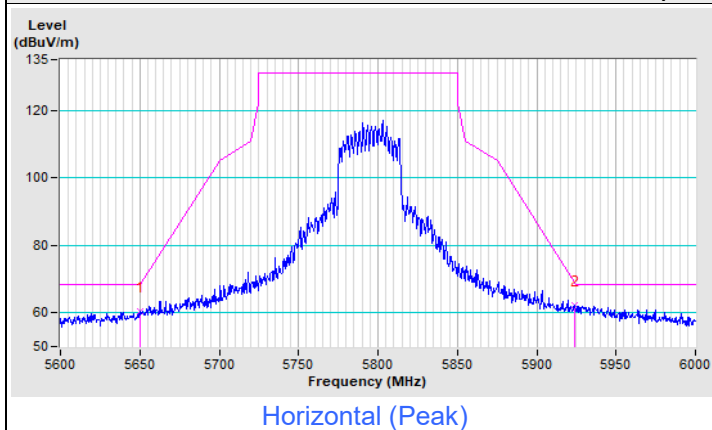


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE40) Channel 151

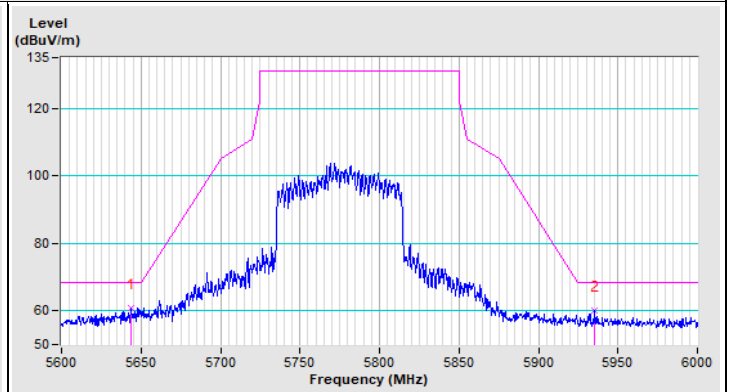
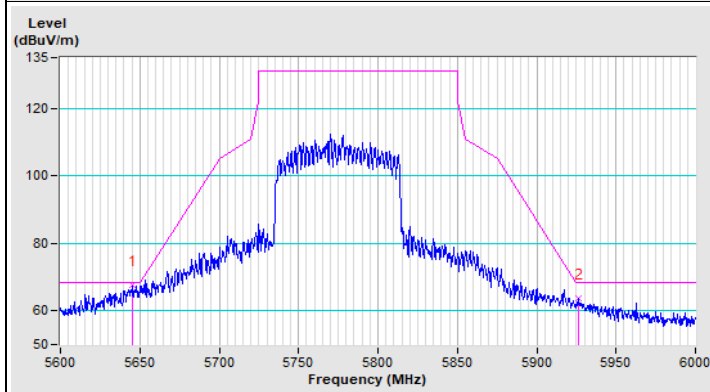


802.11ax (HE40) Channel 159



Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE80) Channel 155



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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