

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBDDZ-WTW-P25050228-3
FCC ID: 2BNGH-B5438
Product: Board
Brand: N/A
Model No.: B5438
Received Date: 2025/5/12
Test Date: 2025/6/18 ~ 2025/6/29
Issued Date: 2025/7/24
Applicant: Harris Hill Products Inc
Address: 200 Park Ave South #1112 New York US 10003
Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories
Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / 788550 / TW0003
Designation Number:

Approved by: _____

Jeremy Lin

Jeremy Lin / Project Engineer

, Date: _____

2025/7/24

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Prepared by : Lena Wang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBDDZ-WTW-P25050228-3	Original release.	2025/7/24

1 Certificate

Product: Board

Brand: N/A

Test Model: B5438

Sample Status: Engineering sample

Applicant: Harris Hill Products Inc

Test Date: 2025/6/18 ~ 2025/6/29

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(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -15.59 dB at 0.65000 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -6.9 dB at 937.92 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 -0.5 dB at 5150.00 MHz, 5350.00 MHz and 5470.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

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:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
26 dB Bandwidth	-	206.5 Hz
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Occupied Bandwidth	-	72 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 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	Board
Brand	N/A
Test Model	B5438
Status of EUT	Engineering sample
Power Supply Rating	19Vdc
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 1201 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 : 246.833 mW (23.92 dBm) 5.26 GHz ~ 5.32 GHz : 243.446 mW (23.86 dBm) 5.5 GHz ~ 5.7 GHz : 231.014 mW (23.64 dBm) 5.745 GHz ~ 5.825 GHz : 236.199 mW (23.73 dBm)
EUT Category	Client device

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
Power Adapter	Chicony	A18-045N2A	AC Input : 100-240V, 1.4A, 50-60Hz (3pin, 0.9m) DC Output : 19V, 2.37A, 45W (1.45m, with a core)

2. There are Bluetooth and WLAN (2.4 GHz & 5 GHz) technology used for the EUT.
3. Bluetooth & WLAN 2.4G & WLAN 5G technology can transmit at same time.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type
BT	-	Advanced Wireless & Antenna INC.	ABF8P-100000A	2.99	2.4 GHz ~ 2.4835 GHz	Dipole	ipex(MHF)
WIFI	0	Advanced Wireless & Antenna INC	ABF8P-100001A	2.11	2.4 GHz ~ 2.4835 GHz	Dipole	ipex(MHF)
				2.86	5.15 GHz ~ 5.85 GHz	Dipole	ipex(MHF)
	1		ABF8P-100002A	2.57	2.4 GHz ~ 2.4835 GHz	Dipole	ipex(MHF)
				2.41	5.15 GHz ~ 5.85 GHz	Dipole	ipex(MHF)

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

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
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:

1. 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) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz). Therefore, the investigated worst case is the representative mode in test report.

2. The EUT does not use channel puncturing and bandwidth reduction.

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

Worst Case:	1. Lying
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Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	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	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 155	BPSK	MCS0
	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	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	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	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
AC Power Conducted Emissions	802.11a	CDD	48	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	802.11a	CDD	48	BPSK	6Mb/s

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Unwanted Emissions above 1 GHz	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

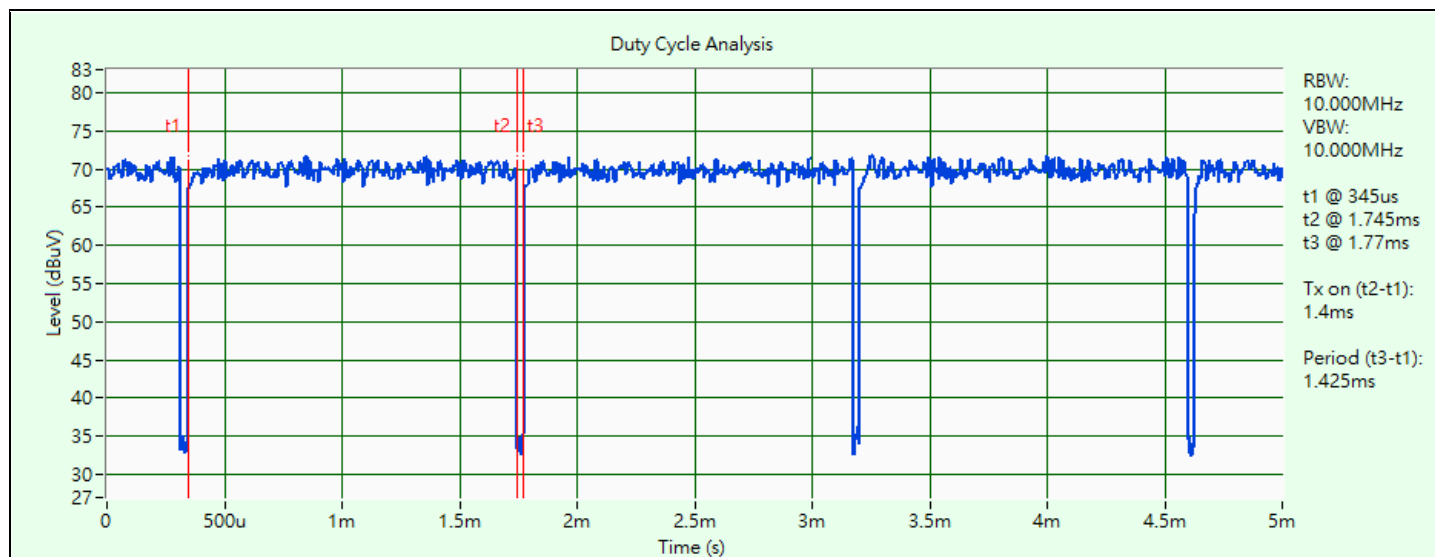
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = $1.4 \text{ ms} / 1.425 \text{ ms} \times 100\% = 98.2\%$

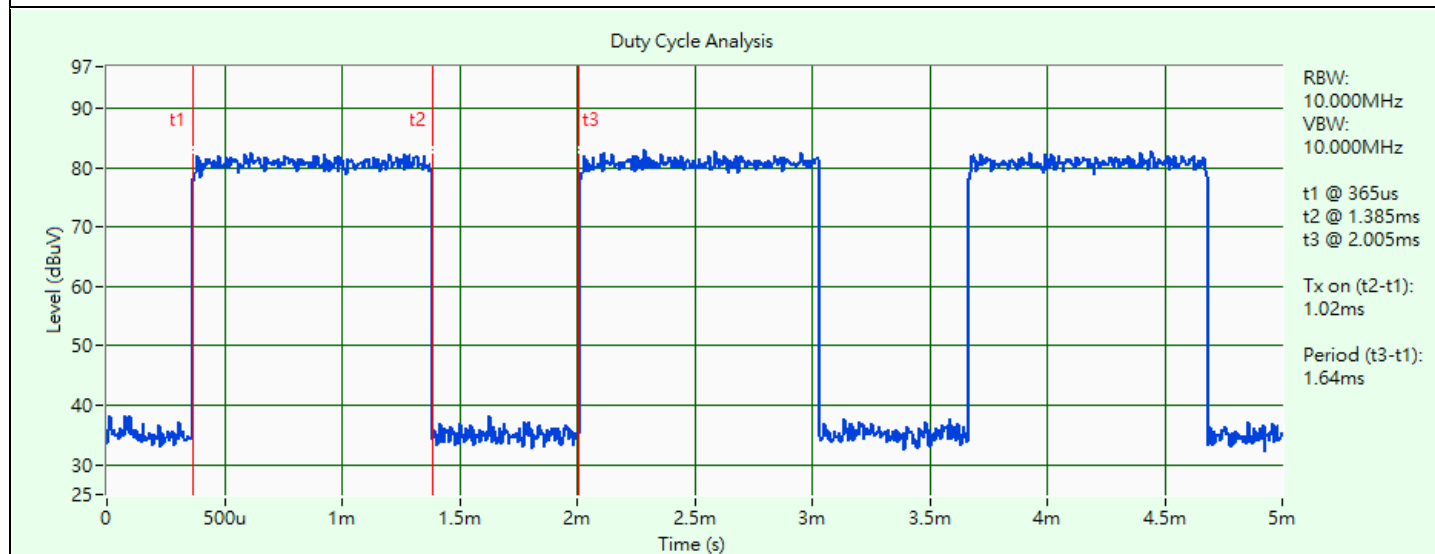
802.11ax (HE20): Duty cycle = $1.02 \text{ ms} / 1.64 \text{ ms} \times 100\% = 62.2\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 2.06 \text{ dB}$

802.11ax (HE40): Duty cycle = $0.655 \text{ ms} / 0.68 \text{ ms} \times 100\% = 96.3\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.16 \text{ dB}$

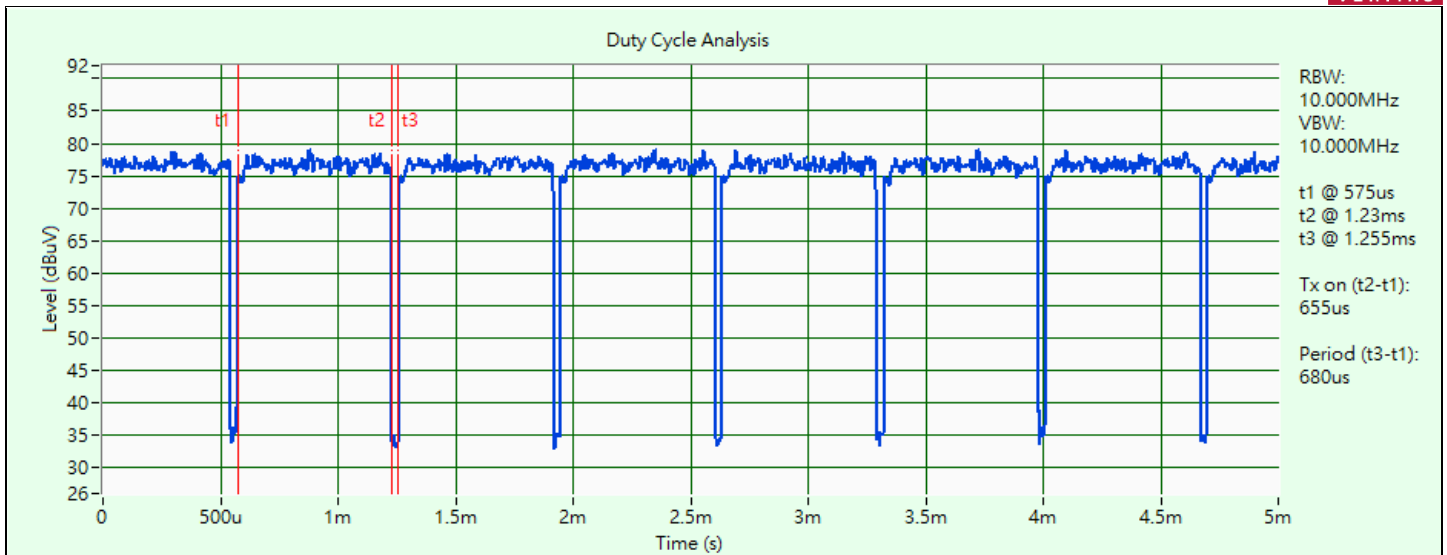
802.11ax (HE80): Duty cycle = $1.89 \text{ ms} / 1.9 \text{ ms} \times 100\% = 99.5\%$



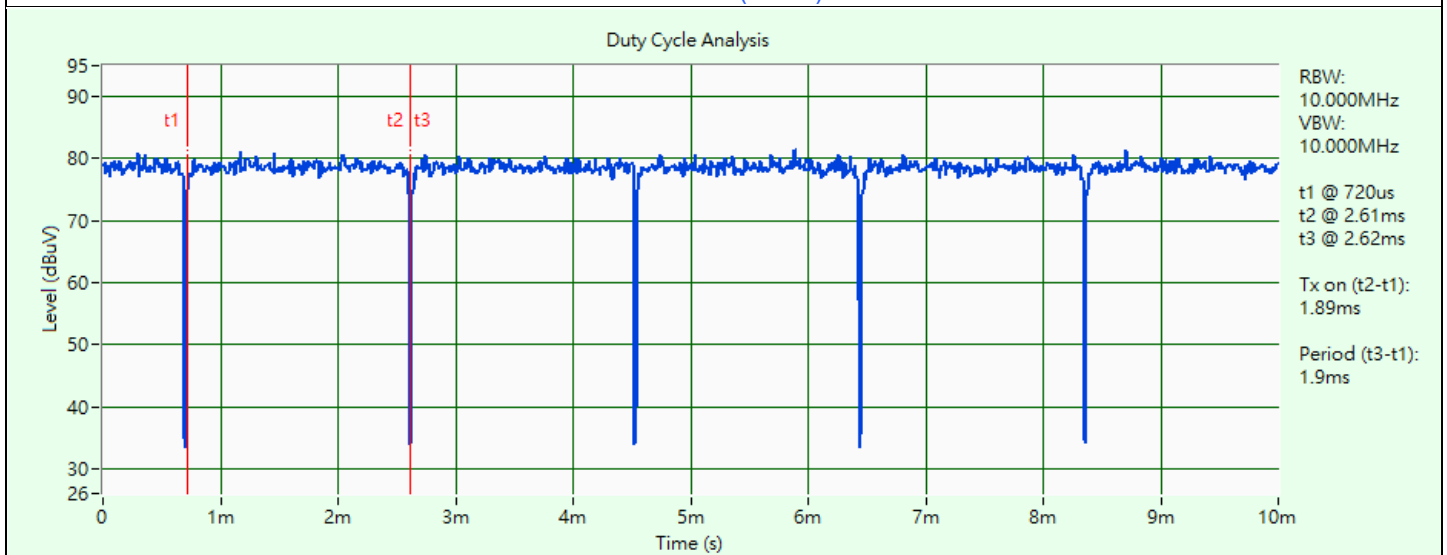
802.11a



802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)

3.6 Test Program Used and Operation Descriptions

Controlling software adb_4.2.2 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



Under Table

Remote Site

3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	L470	PF0TALPX	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB typeC to A Cable	1	1	Y	N	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
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/6/29

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Peak Power Analyzer Keysight	8990B	MY51000485	2025/1/20	2026/1/19
Wideband Power Sensor Keysight	N1923A	MY58020002	2025/1/21	2026/1/20
		MY58140009	2025/1/21	2026/1/20

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/6/29

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 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	E1-011279	04	2024/11/28	2025/11/27
	E1-011280	05	2024/11/28	2025/11/27
	E1-011311	09	2024/11/28	2025/11/27
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2024/11/5	2025/11/4
EMI Test Receiver R&S	ESR3	102783	2024/12/17	2025/12/16
Fixed Attenuator STI	BNC5W10dB	PAD-COND2-01	2024/8/25	2025/8/24
LISN R&S	ESH2-Z5	100100	2025/3/5	2026/3/4
	ESH3-Z5	100312	2024/9/9	2025/9/8
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2024/8/25	2025/8/24
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2024/8/28	2025/8/27

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2025/6/25

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	2024/10/14	2025/10/13
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXE EMI Receiver Agilent	N9038A	MY51210203	2024/8/27	2025/8/26
Preamplifier EMCI	EMC 330H	980112	2024/9/24	2025/9/23
	EMC001340	980201	2024/9/24	2025/9/23
RF Coaxial Cable Woken	8D-FB	Cable-Ch10-01	2024/9/24	2025/9/23
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2025/6/25

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2024/11/10	2025/11/9
	BBHA 9170	148	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY51210203	2024/8/27	2025/8/26
Preamplifier EMCI	EMC 012645	980115	2024/9/24	2025/9/23
	EMC 184045	980116	2024/9/24	2025/9/23
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2024/7/6	2025/7/5
	EMC102-KM-KM-3000	150929	2024/7/6	2025/7/5
	EMC104-SM-SM- 8000+3000	171005	2024/9/24	2025/9/23
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	2024/9/24	2025/9/23
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2025/6/18 ~ 2025/6/24

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 Points	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Client devices	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 Points	
	Indoor Access Point	
	Client devices	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 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.

5.7 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).

5.8 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.

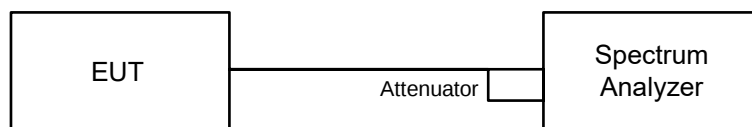
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

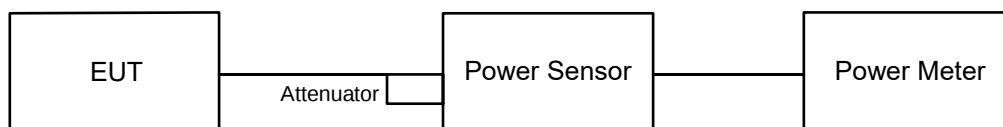


6.1.2 Test Procedure

- 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

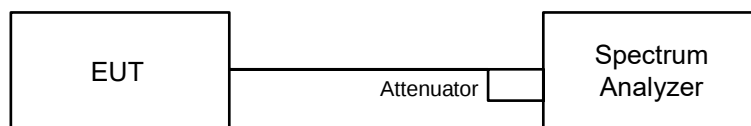


6.2.2 Test Procedure

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 ≥ 3 MHz, Detector = RMS
- Sweep points ≥ $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing ≤ 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 1 MHz:

Method SA-2A

- 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 $\leq$ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Manually set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
- Perform a single sweep.
- Record the max value and add 10 log (1/duty cycle).

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 $\leq$ 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

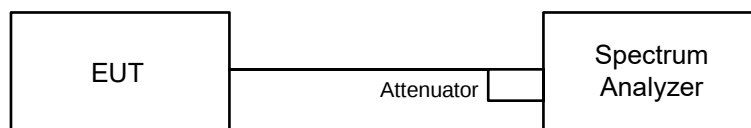
For specified measurement bandwidth 500 kHz:

Method SA-2A

- 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 $\leq$ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Manually set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
- Perform a single sweep.
- Record the max value and add 10 log (1/duty cycle).

6.4 6 dB Bandwidth

6.4.1 Test Setup

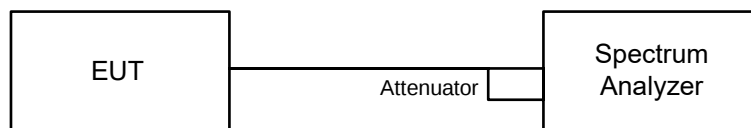


6.4.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ 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

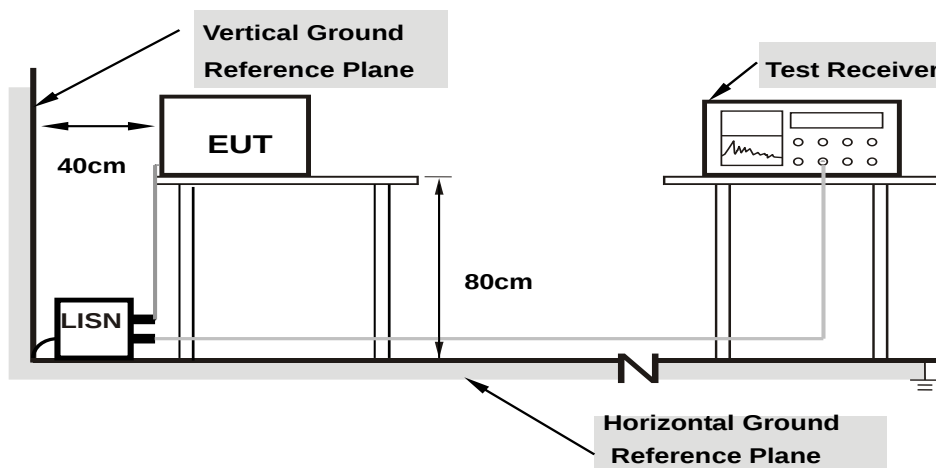


6.5.2 Test Procedure

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 AC Power Conducted Emissions

6.6.1 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).

6.6.2 Test Procedure

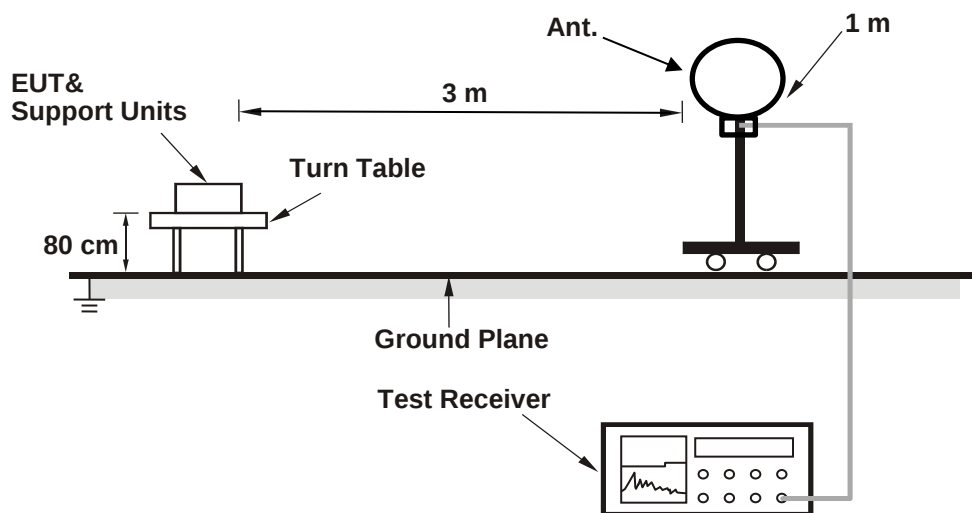
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

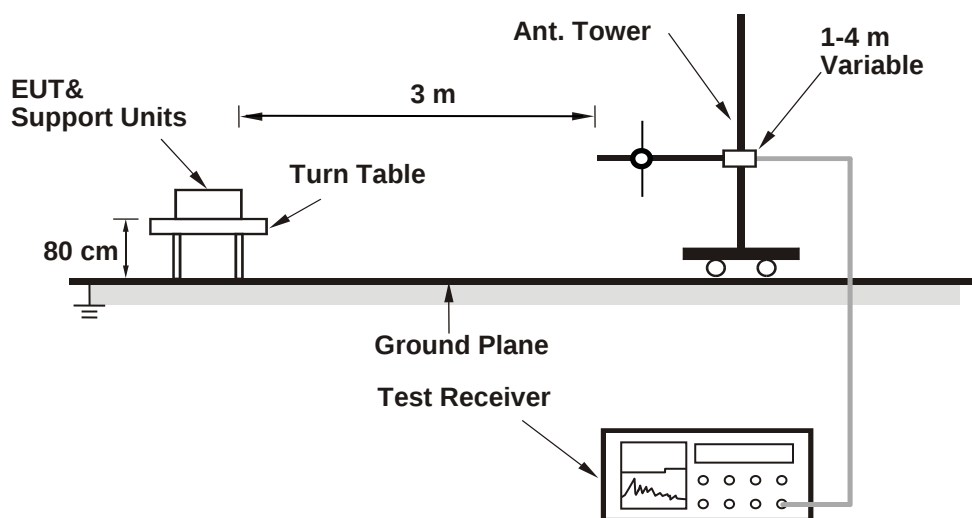
6.7 Unwanted Emissions below 1 GHz

6.7.1 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).

6.7.2 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

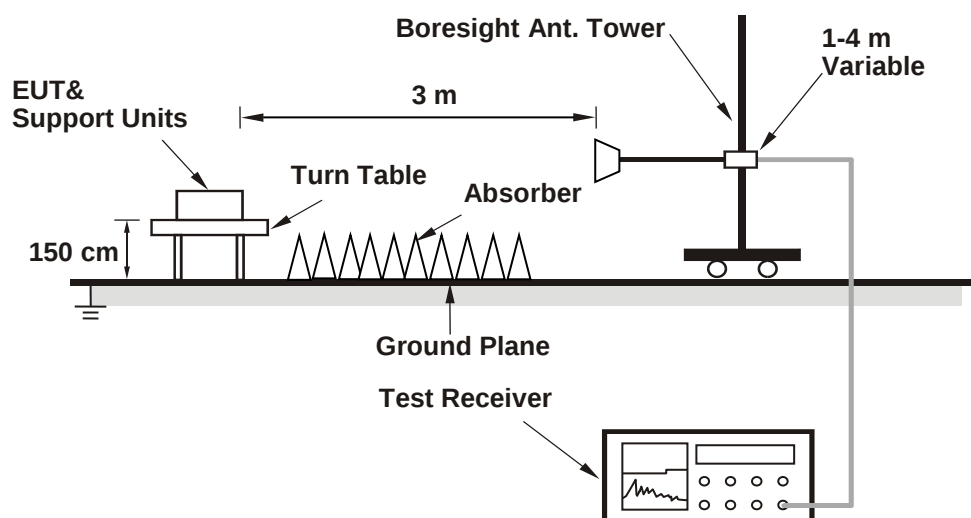
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup



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

6.8.2 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, 60% RH	Tested By:	Chris Lin
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	29.33	26.93
60	5300	30.79	26.97
64	5320	28.96	27.86
100	5500	31.01	27.85
116	5580	31.37	33.30
140	5700	27.71	24.79

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	26.93	25.3 > 24
60	5300	26.97	25.3 > 24
64	5320	27.86	25.44 > 24
100	5500	27.85	25.44 > 24
116	5580	31.37	25.96 > 24
140	5700	24.79	24.94 > 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	29.68	31.38
60	5300	22.85	24.91
64	5320	33.25	21.73
100	5500	22.66	23.40
116	5580	25.40	29.21
140	5700	23.35	24.87

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	29.68	25.72 > 24
60	5300	22.85	24.58 > 24
64	5320	21.73	24.37 > 24
100	5500	22.66	24.55 > 24
116	5580	25.40	25.04 > 24
140	5700	23.35	24.68 > 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	48.60	56.57
62	5310	39.65	39.62
102	5510	39.62	39.67
110	5550	54.38	55.57
134	5670	39.65	39.60

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	48.60	27.86 > 24
62	5310	39.62	26.97 > 24
102	5510	39.62	26.97 > 24
110	5550	54.38	28.35 > 24
134	5670	39.60	26.97 > 24

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

802.11ax (HE80)

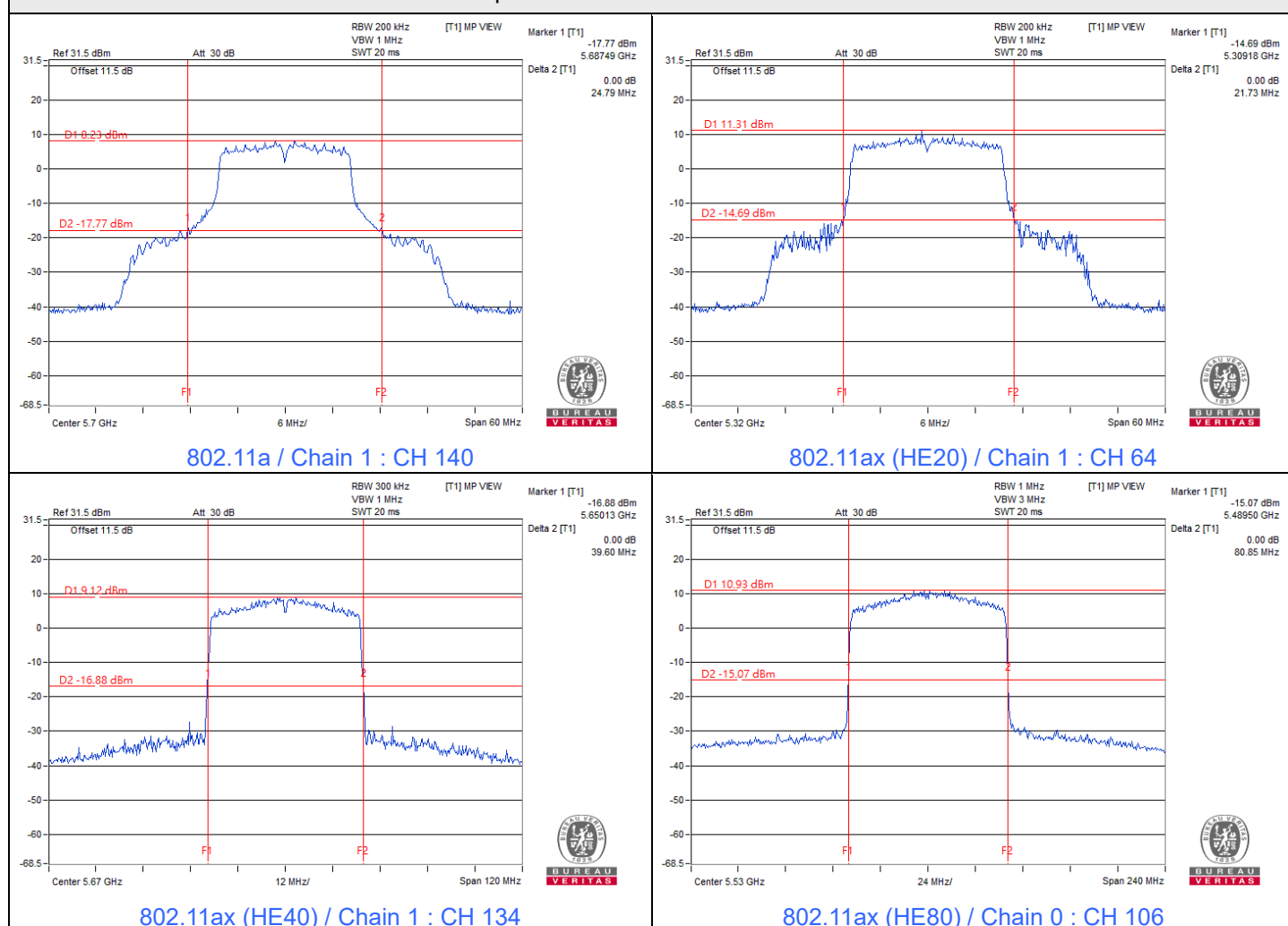
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	80.92	80.90
106	5530	80.85	80.94
122	5610	107.67	114.38

Determined Output Power Limit

Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)	
58	5290	80.90	30.07	> 24
106	5530	80.85	30.07	> 24
122	5610	107.67	31.32	> 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, 60% RH	Tested By:	Chris Lin
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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	17.03	17.16	102.466	20.11	24	Pass
40	5200	20.71	21.06	245.404	23.90	24	Pass
48	5240	20.73	21.09	246.833	23.92	24	Pass
52	5260	20.67	21.03	243.446	23.86	24	Pass
60	5300	20.65	21.00	242.037	23.84	24	Pass
64	5320	19.63	20.08	193.692	22.87	24	Pass
100	5500	19.71	20.14	196.817	22.94	24	Pass
116	5580	20.39	20.85	231.014	23.64	24	Pass
140	5700	18.05	18.51	134.784	21.30	24	Pass
149	5745	20.41	20.92	233.495	23.68	30	Pass
157	5785	20.46	20.97	236.199	23.73	30	Pass
165	5825	20.34	20.76	227.268	23.57	30	Pass

Notes:

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

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	15.77	16.27	80.122	19.04	24	Pass
40	5200	18.09	18.36	132.966	21.24	24	Pass
48	5240	18.41	19.01	148.959	21.73	24	Pass
52	5260	18.81	19.03	156.016	21.93	24	Pass
60	5300	18.59	18.90	149.902	21.76	24	Pass
64	5320	18.31	18.67	141.385	21.50	24	Pass
100	5500	18.49	18.63	143.578	21.57	24	Pass
116	5580	18.49	18.80	146.49	21.66	24	Pass
140	5700	17.60	18.02	120.931	20.83	24	Pass
149	5745	19.75	19.84	190.789	22.81	30	Pass
157	5785	19.63	19.79	187.113	22.72	30	Pass
165	5825	19.73	19.83	190.134	22.79	30	Pass

Notes:

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

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	17.33	17.46	109.794	20.41	24	Pass
46	5230	19.62	19.79	186.902	22.72	24	Pass
54	5270	19.39	19.72	180.652	22.57	24	Pass
62	5310	17.55	18.23	123.413	20.91	24	Pass
102	5510	15.90	16.36	82.156	19.15	24	Pass
110	5550	19.20	19.74	177.365	22.49	24	Pass
134	5670	17.61	18.34	125.911	21.00	24	Pass
151	5755	19.48	19.65	180.973	22.58	30	Pass
159	5795	19.41	19.63	179.13	22.53	30	Pass

Notes:

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

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	15.91	16.38	82.445	19.16	24	Pass
40	5200	18.21	18.49	136.853	21.36	24	Pass
48	5240	18.44	19.10	151.106	21.79	24	Pass
52	5260	18.85	19.12	158.394	22.00	24	Pass
60	5300	18.62	19.01	152.394	21.83	24	Pass
64	5320	18.43	18.80	145.52	21.63	24	Pass
100	5500	18.62	18.74	147.595	21.69	24	Pass
116	5580	18.60	18.91	150.247	21.77	24	Pass
140	5700	17.72	18.14	124.319	20.95	24	Pass
149	5745	19.88	19.95	196.13	22.93	30	Pass
157	5785	19.75	19.91	192.355	22.84	30	Pass
165	5825	19.86	19.94	195.456	22.91	30	Pass

Notes:

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

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	17.48	17.58	113.255	20.54	24	Pass
46	5230	19.75	19.93	192.807	22.85	24	Pass
54	5270	19.54	19.84	186.333	22.70	24	Pass
62	5310	17.68	18.37	127.321	21.05	24	Pass
102	5510	16.03	16.48	84.55	19.27	24	Pass
110	5550	19.33	19.86	182.532	22.61	24	Pass
134	5670	17.75	18.46	129.712	21.13	24	Pass
151	5755	19.61	19.78	186.472	22.71	30	Pass
159	5795	19.56	19.75	184.771	22.67	30	Pass

Notes:

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

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	16.73	17.04	97.68	19.90	24	Pass
58	5290	16.61	16.94	95.245	19.79	24	Pass
106	5530	15.72	16.07	77.783	18.91	24	Pass
122	5610	19.77	20.14	198.118	22.97	24	Pass
155	5775	18.11	18.72	139.187	21.44	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 2.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 2.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 2.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 2.86 dBi $\leq$ 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	15.94	16.41	83.017	19.19	24	Pass
40	5200	18.24	18.51	137.638	21.39	24	Pass
48	5240	18.47	19.31	155.617	21.92	24	Pass
52	5260	18.91	19.25	161.943	22.09	24	Pass
60	5300	18.67	19.11	155.091	21.91	24	Pass
64	5320	18.46	18.83	146.529	21.66	24	Pass
100	5500	18.66	18.77	148.787	21.73	24	Pass
116	5580	18.71	19.03	154.285	21.88	24	Pass
140	5700	17.74	18.16	124.893	20.97	24	Pass
149	5745	19.91	19.98	197.49	22.96	30	Pass
157	5785	19.78	19.93	193.462	22.87	30	Pass
165	5825	19.88	19.97	196.586	22.94	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 2.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 2.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 2.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 2.86 dBi $\leq$ 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	17.50	17.61	113.911	20.57	24	Pass
46	5230	19.78	19.95	193.916	22.88	24	Pass
54	5270	19.57	19.87	187.624	22.73	24	Pass
62	5310	17.72	18.41	128.499	21.09	24	Pass
102	5510	16.07	16.51	85.229	19.31	24	Pass
110	5550	19.36	19.89	183.797	22.64	24	Pass
134	5670	17.78	18.49	130.611	21.16	24	Pass
151	5755	19.64	19.82	187.985	22.74	30	Pass
159	5795	19.60	19.78	186.262	22.70	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 2.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 2.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 2.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 2.86 dBi $\leq$ 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	16.76	17.08	98.475	19.93	24	Pass
58	5290	16.63	16.97	95.799	19.81	24	Pass
106	5530	15.76	16.10	78.408	18.94	24	Pass
122	5610	19.81	20.17	199.711	23.00	24	Pass
155	5775	18.14	18.75	140.152	21.47	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 2.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 2.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 2.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 2.86 dBi $\leq$ 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, 60% RH	Tested By:	Chris Lin
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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	4.14	4.13	7.15	11	Pass
40	5200	7.73	8.01	10.88	11	Pass
48	5240	7.66	8.14	10.92	11	Pass
52	5260	7.66	8.03	10.86	11	Pass
60	5300	7.52	8.00	10.78	11	Pass
64	5320	6.65	7.08	9.88	11	Pass
100	5500	6.67	7.11	9.91	11	Pass
116	5580	7.35	7.90	10.64	11	Pass
140	5700	4.99	5.49	8.26	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 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
36	5180	0.79	1.36	2.06	6.15	11	Pass
40	5200	3.17	2.96	2.06	8.14	11	Pass
48	5240	3.35	4.21	2.06	8.87	11	Pass
52	5260	3.48	3.95	2.06	8.79	11	Pass
60	5300	3.48	3.76	2.06	8.69	11	Pass
64	5320	3.30	3.60	2.06	8.52	11	Pass
100	5500	3.49	3.52	2.06	8.58	11	Pass
116	5580	3.55	3.78	2.06	8.74	11	Pass
140	5700	2.29	2.96	2.06	7.71	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 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
38	5190	1.46	1.81	0.16	4.81	11	Pass
46	5230	3.76	3.98	0.16	7.04	11	Pass
54	5270	3.40	3.73	0.16	6.74	11	Pass
62	5310	1.70	2.31	0.16	5.19	11	Pass
102	5510	0.11	0.57	0.16	3.52	11	Pass
110	5550	3.31	3.74	0.16	6.70	11	Pass
134	5670	1.75	2.53	0.16	5.33	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 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.65 dBi $\leq$ 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	-2.22	-1.91	0.95	11	Pass
58	5290	-2.20	-2.12	0.85	11	Pass
106	5530	-3.29	-2.82	-0.04	11	Pass
122	5610	0.82	1.11	3.98	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 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
149	5745	0.61	1.14	3.89	6.11	30	Pass
157	5785	0.95	1.06	4.02	6.24	30	Pass
165	5825	0.57	0.37	3.48	5.70	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
149	5745	-2.38	-2.31	0.67	2.06	4.95	30	Pass
157	5785	-2.55	-2.33	0.57	2.06	4.85	30	Pass
165	5825	-2.45	-2.45	0.56	2.06	4.84	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
151	5755	-3.20	-3.38	-0.28	0.16	2.10	30	Pass
159	5795	-3.72	-3.77	-0.73	0.16	1.65	30	Pass

Notes:

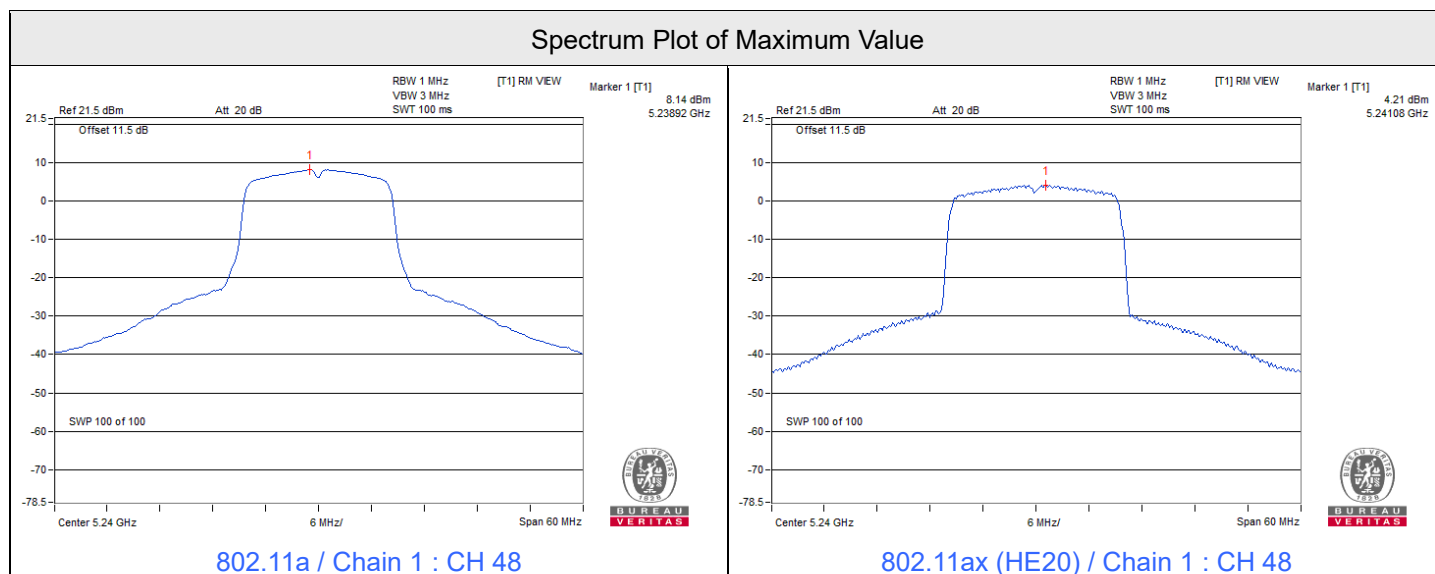
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

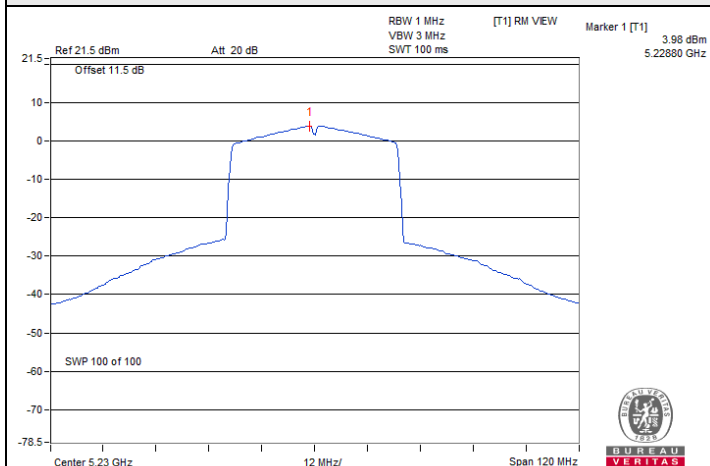
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
155	5775	-8.36	-8.31	-5.32	-3.10	30	Pass

Notes:

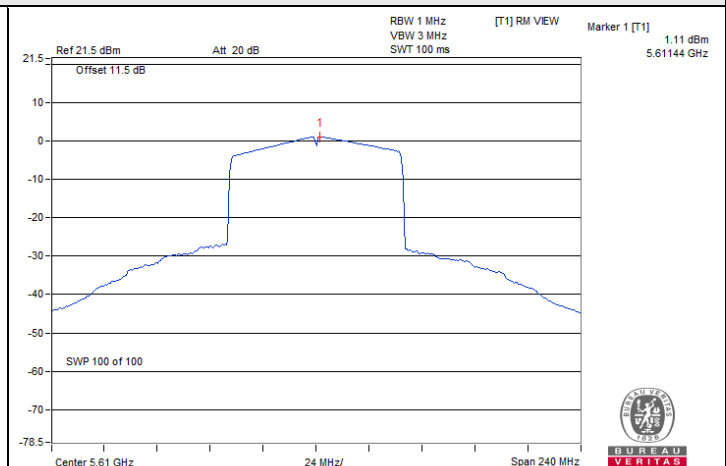
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 5.65 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.



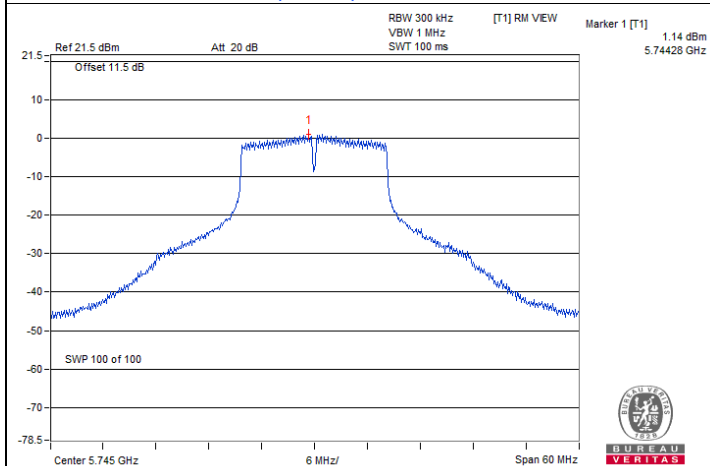
Spectrum Plot of Maximum Value



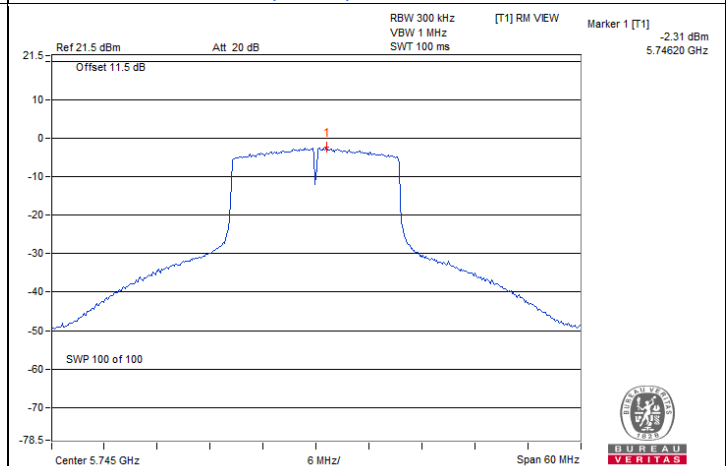
802.11ax (HE40) / Chain 1 : CH 46



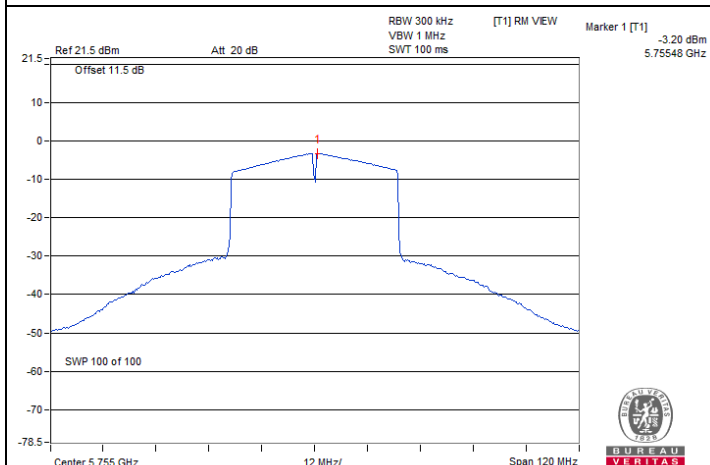
802.11ax (HE80) / Chain 1 : CH 122



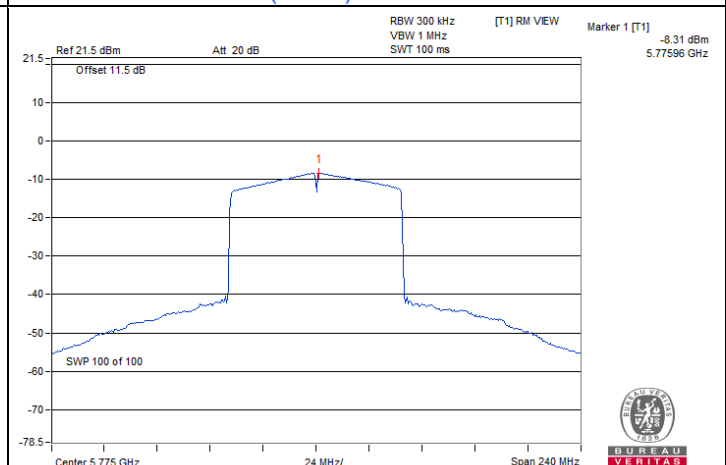
802.11a / Chain 1 : CH 149



802.11ax (HE20) / Chain 1 : CH 149



802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE80) / Chain 1 : CH 155

7.4 6 dB Bandwidth

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

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	15.99	16.39	0.5	Pass
157	5785	16.14	16.40	0.5	Pass
165	5825	15.94	16.40	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	18.83	18.78	0.5	Pass
157	5785	18.72	18.84	0.5	Pass
165	5825	18.82	18.84	0.5	Pass

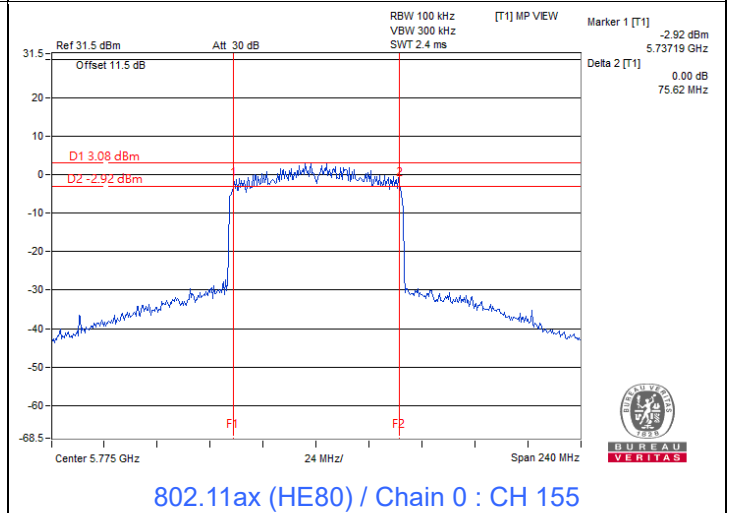
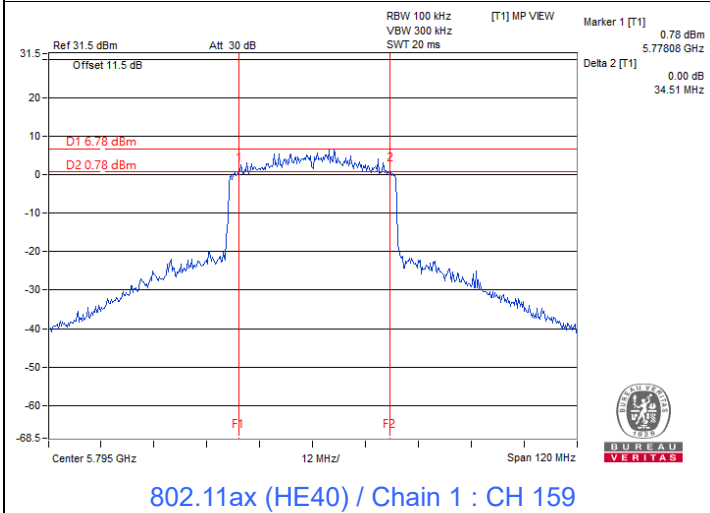
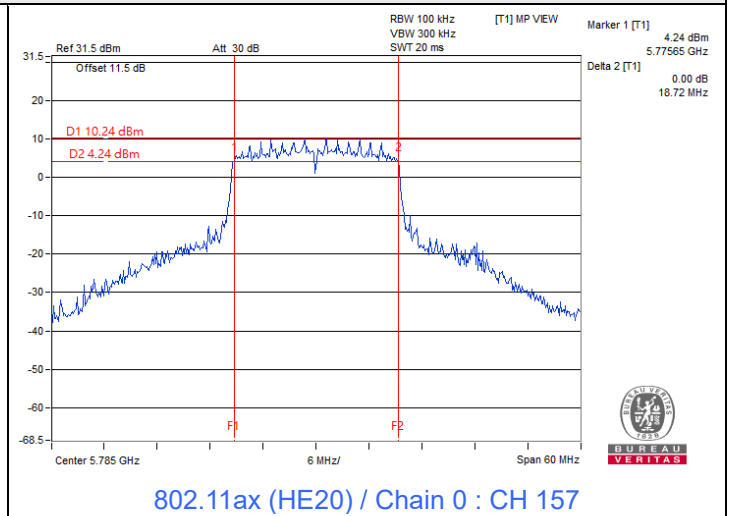
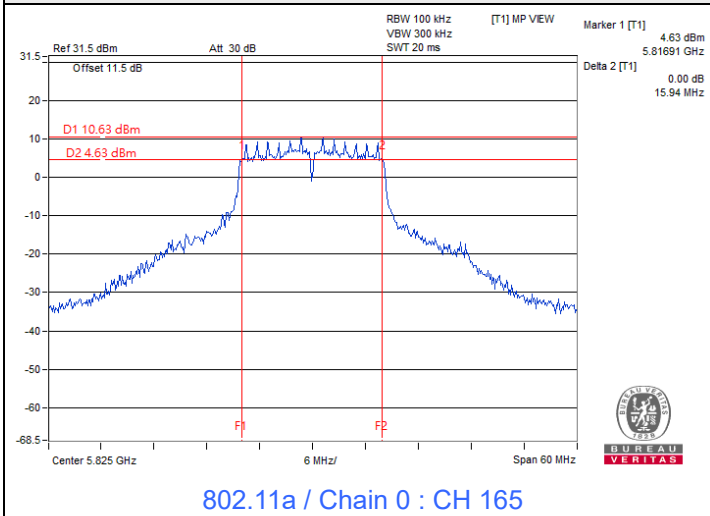
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
151	5755	35.35	36.16	0.5	Pass
159	5795	35.39	34.51	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
155	5775	75.62	75.99	0.5	Pass

Spectrum Plot of Minimum Value



7.5 Occupied Bandwidth

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

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.88	17.04
40	5200	17.88	17.40
48	5240	17.16	16.68
52	5260	17.88	17.28
60	5300	18.12	17.28
64	5320	17.88	17.04
100	5500	18.12	17.04
116	5580	18.36	17.40
140	5700	17.88	17.04
149	5745	18.60	18.36
157	5785	18.96	18.84
165	5825	18.72	18.12

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.08	19.20
40	5200	18.96	19.20
48	5240	18.96	18.96
52	5260	19.20	19.20
60	5300	19.20	19.08
64	5320	19.20	19.20
100	5500	18.96	19.20
116	5580	19.20	19.20
140	5700	19.08	19.20
149	5745	19.20	19.20
157	5785	19.20	19.20
165	5825	19.32	19.20

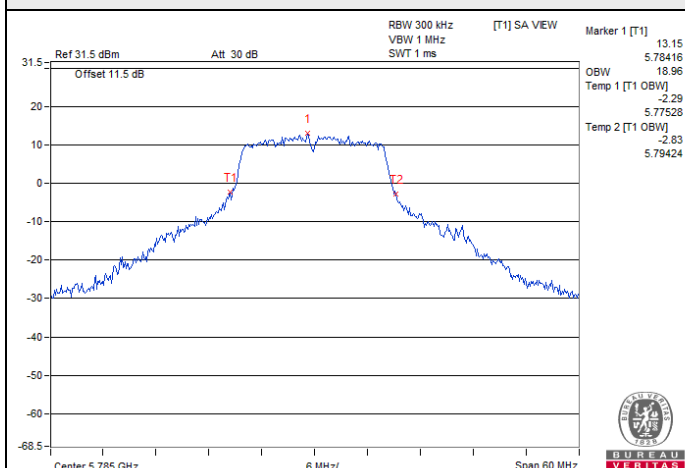
802.11ax (HE40)

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

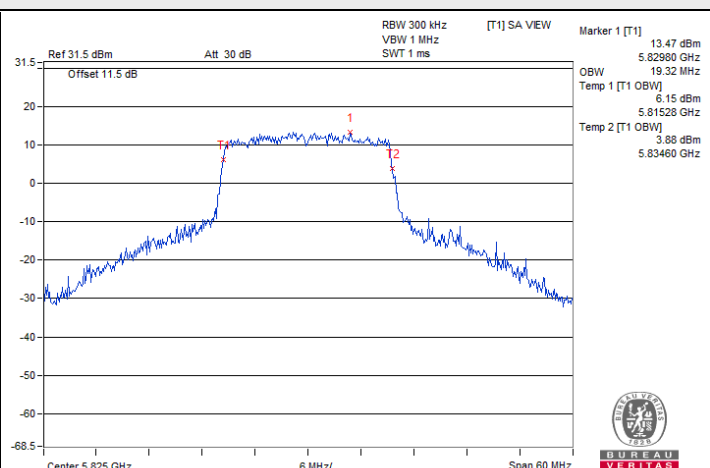
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	76.80	76.80
58	5290	76.80	76.80
106	5530	76.32	76.80
122	5610	77.28	77.28
155	5775	77.28	77.28

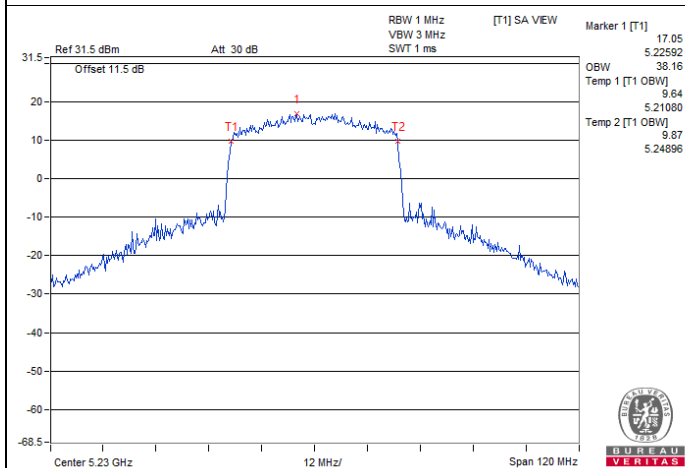
Spectrum Plot of Maximum Value



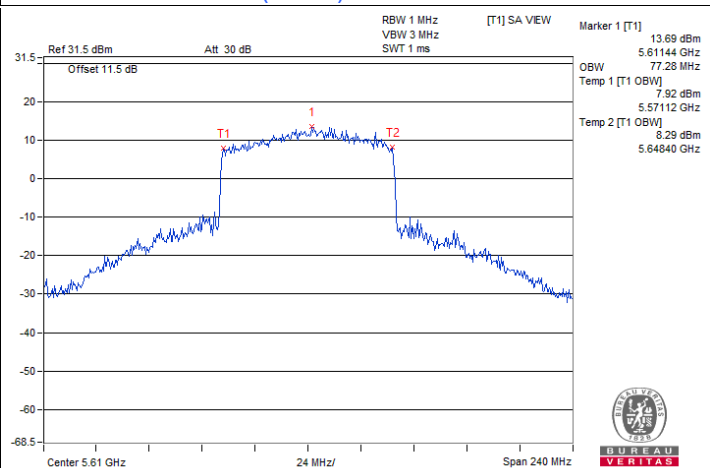
802.11a / Chain 0 : CH 157



802.11ax (HE20) / Chain 0 : CH 165

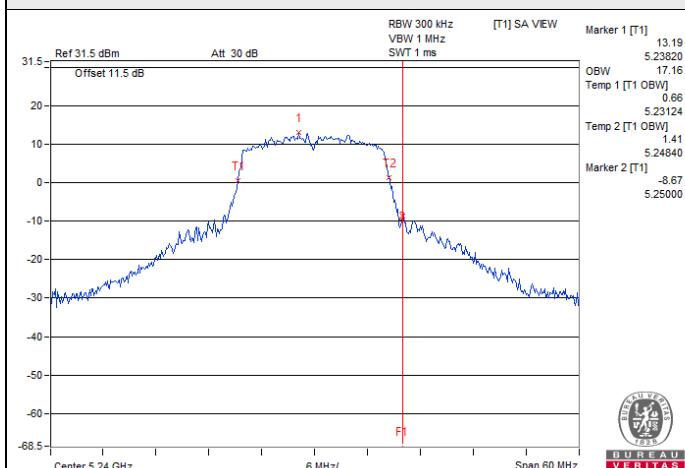


802.11ax (HE40) / Chain 0 : CH 46

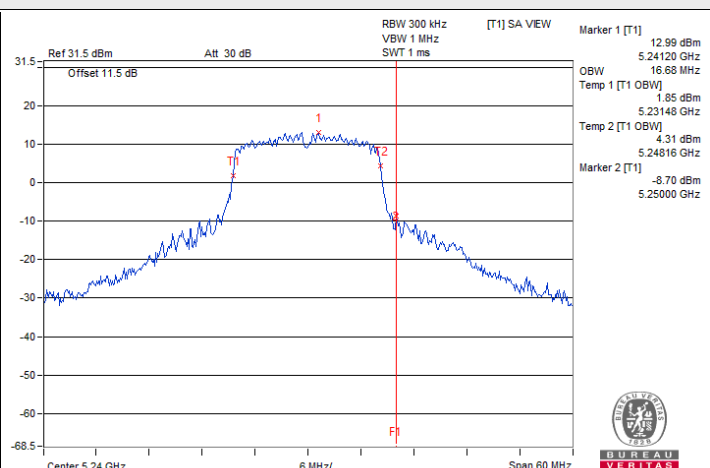


802.11ax (HE80) / Chain 0 : CH 122

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

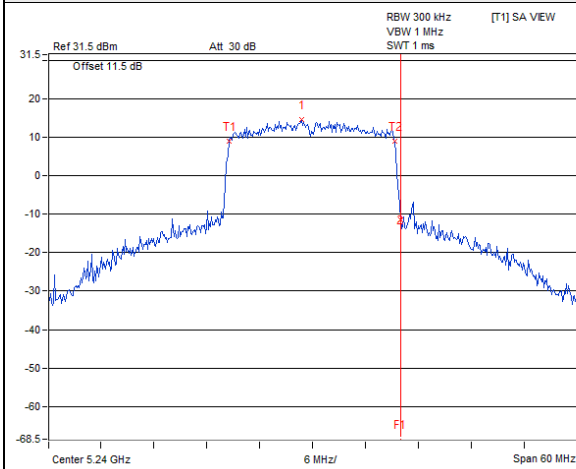


802.11a / Chain 0 : CH 48

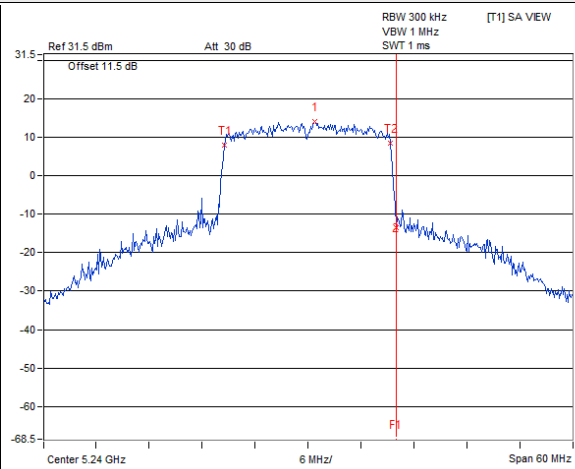


802.11a / Chain 1 : CH 48

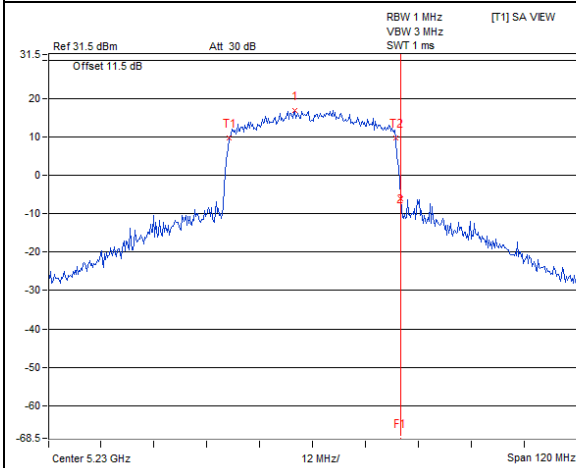
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



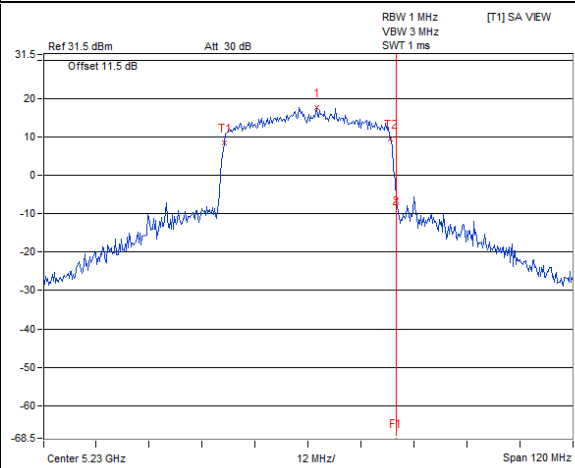
802.11ax (HE20) / Chain 0 : CH 48



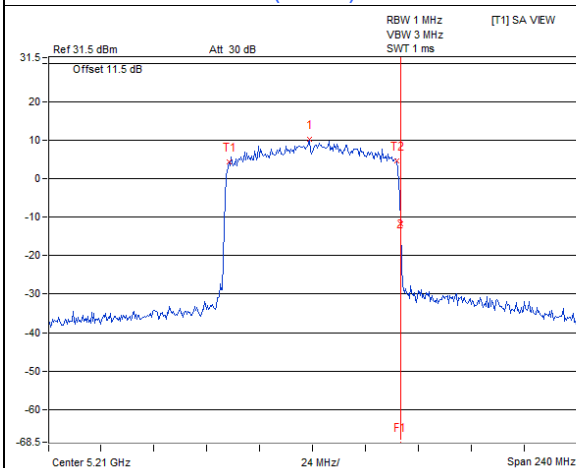
802.11ax (HE20) / Chain 1 : CH 48



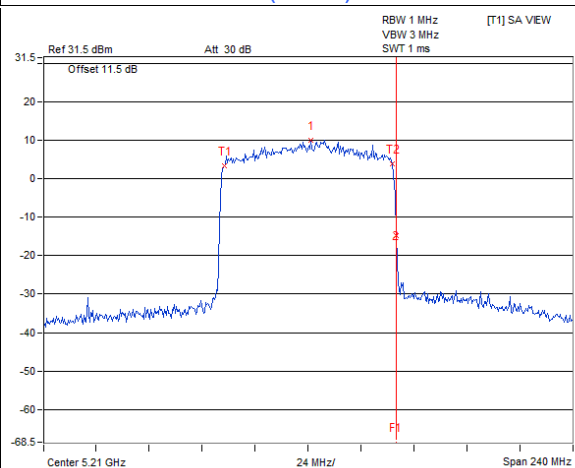
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46

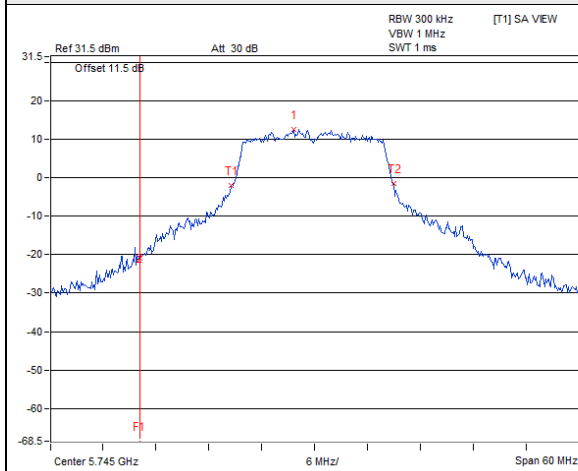


802.11ax (HE80) / Chain 0 : CH 42

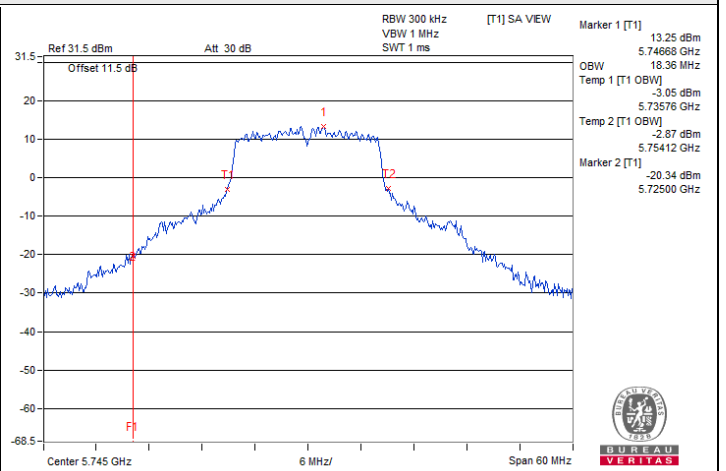


802.11ax (HE80) / Chain 1 : CH 42

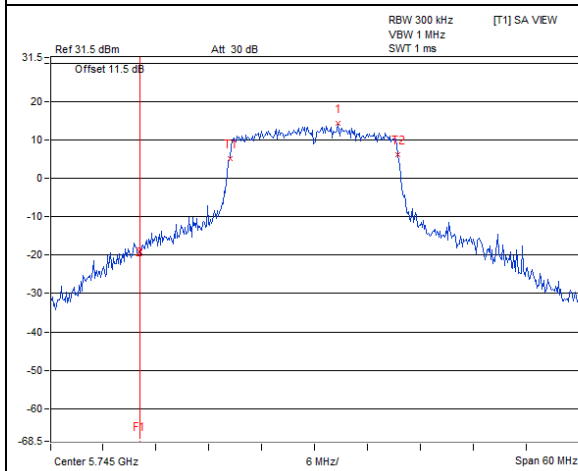
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



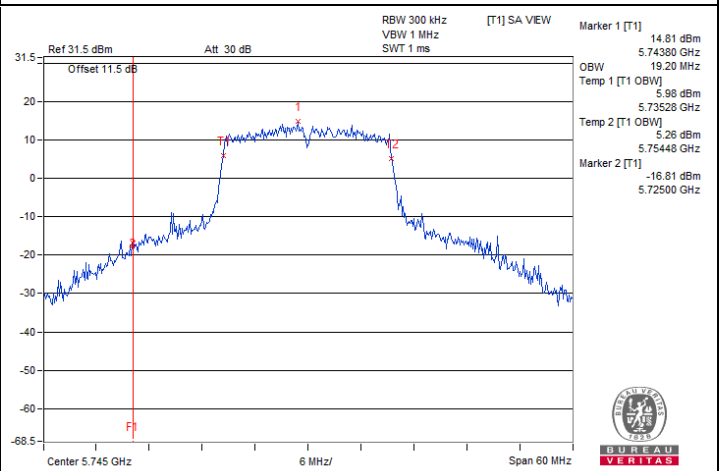
802.11a / Chain 0 : CH 149



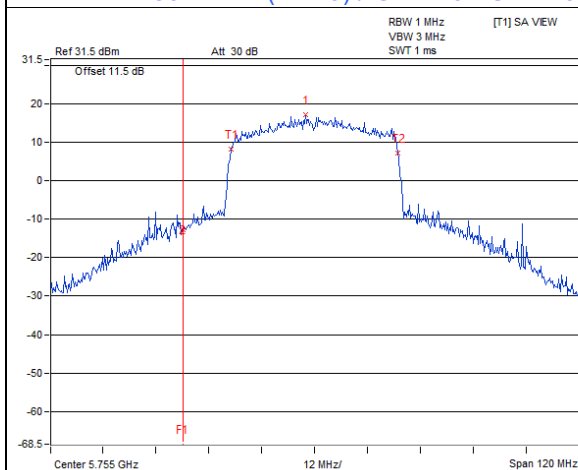
802.11a / Chain 1 : CH 149



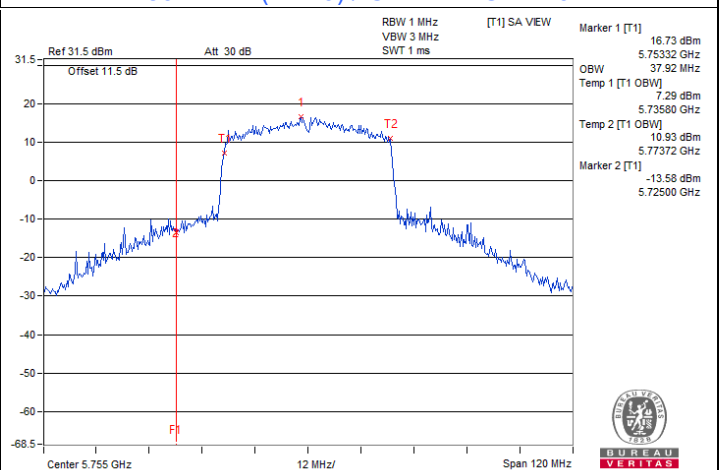
802.11ax (HE20) / Chain 0 : CH 149



802.11ax (HE20) / Chain 1 : CH 149

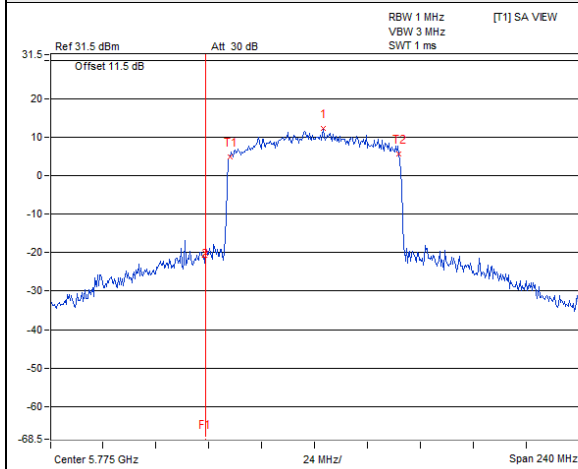


802.11ax (HE40) / Chain 0 : CH 151

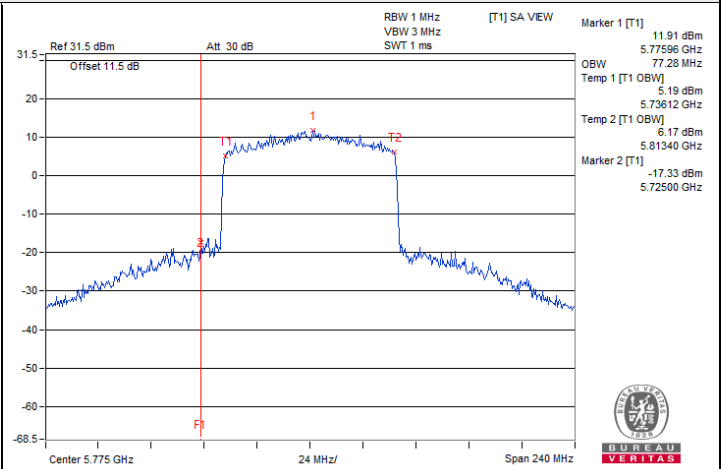


802.11ax (HE40) / Chain 1 : CH 151

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



802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155

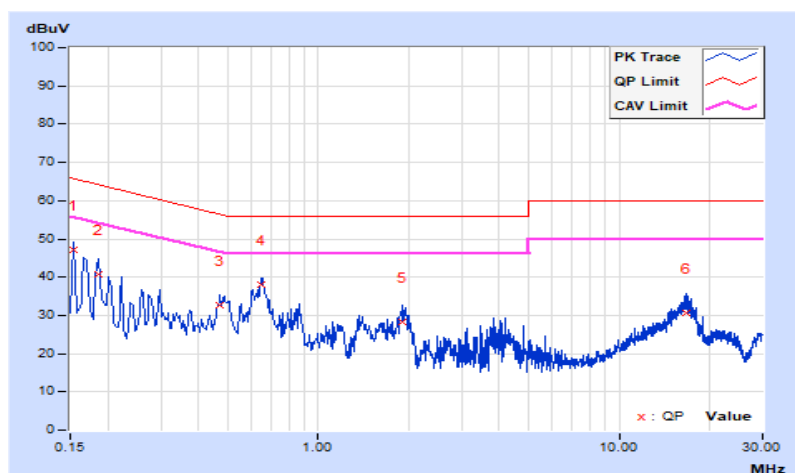
7.6 AC Power Conducted Emissions

RF Mode	802.11a	Channel	CH 48 : 5240 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	24 °C, 71% RH
Tested By	Thomas Cheng		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	10.25	36.92	20.04	47.17	30.29	65.78	55.78	-18.61	-25.49
2	0.18568	10.26	30.40	19.81	40.66	30.07	64.23	54.23	-23.57	-24.16
3	0.47000	10.29	22.31	16.40	32.60	26.69	56.51	46.51	-23.91	-19.82
4	0.65000	10.31	27.66	20.10	37.97	30.41	56.00	46.00	-18.03	-15.59
5	1.91000	10.37	17.97	9.99	28.34	20.36	56.00	46.00	-27.66	-25.64
6	16.71386	10.56	19.98	11.18	30.54	21.74	60.00	50.00	-29.46	-28.26

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

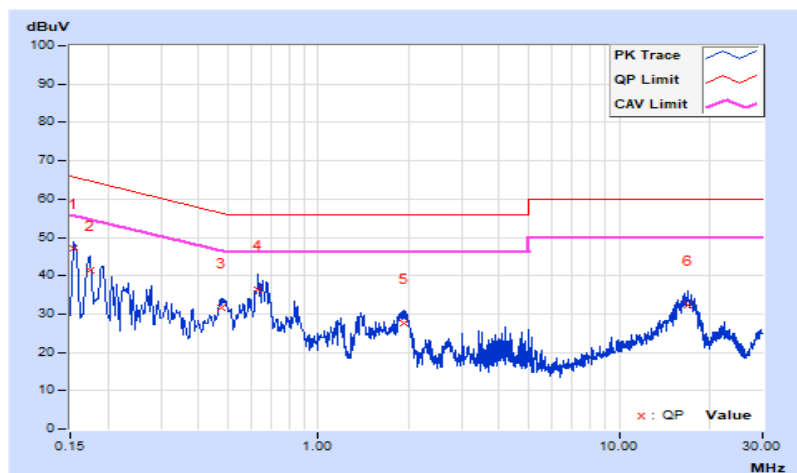


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 71% RH
Tested By	Thomas Cheng		

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	0.15400	10.30	37.00	19.99	47.30	30.29	65.78	55.78	-18.48	-25.49
2	0.17384	10.30	31.14	18.55	41.44	28.85	64.77	54.77	-23.33	-25.92
3	0.47400	10.32	21.21	15.50	31.53	25.82	56.44	46.44	-24.91	-20.62
4	0.63400	10.34	26.19	19.59	36.53	29.93	56.00	46.00	-19.47	-16.07
5	1.93800	10.40	17.34	6.29	27.74	16.69	56.00	46.00	-28.26	-29.31
6	16.89400	10.74	21.48	11.24	32.22	21.98	60.00	50.00	-27.78	-28.02

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



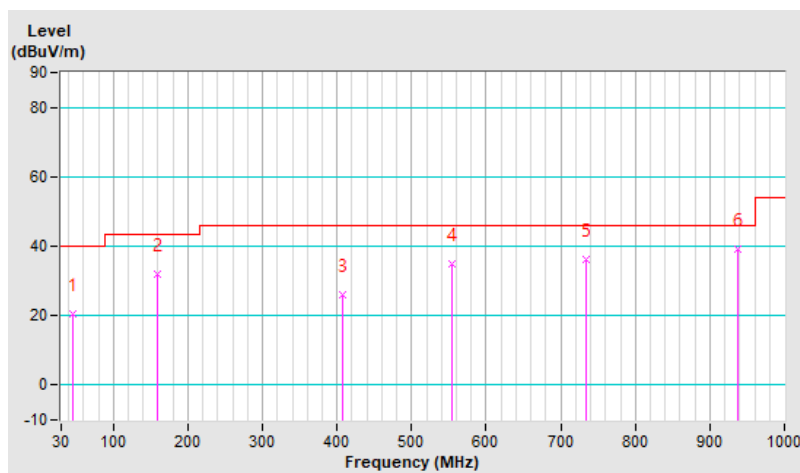
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	46.49	20.7 QP	40.0	-19.3	2.00 H	156	33.0	-12.3
2	159.98	32.0 QP	43.5	-11.5	1.50 H	167	44.2	-12.2
3	408.30	26.1 QP	46.0	-19.9	2.00 H	2	35.1	-9.0
4	553.80	34.9 QP	46.0	-11.1	1.00 H	355	40.7	-5.8
5	734.22	36.1 QP	46.0	-9.9	1.50 H	62	37.7	-1.6
6	937.92	39.1 QP	46.0	-6.9	2.00 H	105	38.7	0.4

Remarks:

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

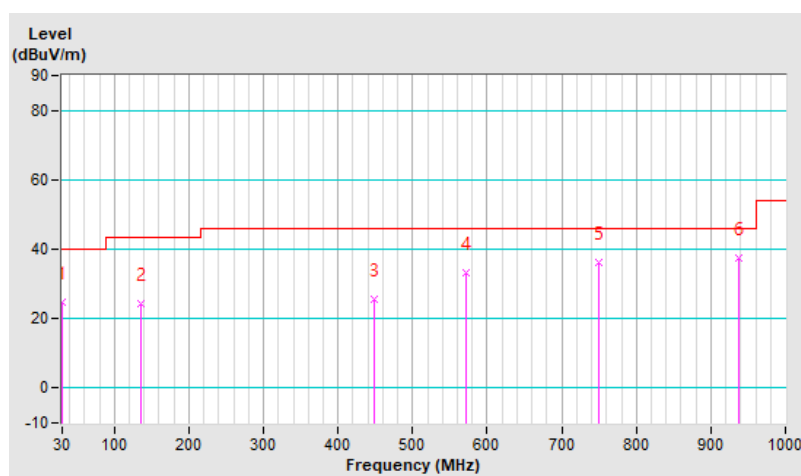


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	24.9 QP	40.0	-15.1	1.00 V	2	37.7	-12.8
2	135.73	24.5 QP	43.5	-19.0	1.50 V	171	37.3	-12.8
3	448.07	25.8 QP	46.0	-20.2	2.00 V	158	33.5	-7.7
4	571.26	33.1 QP	46.0	-12.9	1.50 V	325	38.6	-5.5
5	749.74	36.2 QP	46.0	-9.8	2.00 V	18	37.1	-0.9
6	937.92	37.3 QP	46.0	-8.7	1.00 V	299	36.9	0.4

Remarks:

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



7.8 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, 65% RH
Tested By	Thomas Cheng		

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	63.9 PK	74.0	-10.1	1.09 H	50	58.0	5.9
2	5150.00	50.7 AV	54.0	-3.3	1.09 H	50	44.8	5.9
3	*5180.00	113.3 PK			1.09 H	50	71.8	41.5
4	*5180.00	103.0 AV			1.09 H	50	61.5	41.5
5	#10360.00	67.2 PK	68.2	-1.0	3.29 H	271	54.6	12.6
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	5150.00	59.8 PK	74.0	-14.2	1.32 V	2	53.9	5.9
2	5150.00	46.9 AV	54.0	-7.1	1.32 V	2	41.0	5.9
3	*5180.00	108.5 PK			1.32 V	2	67.0	41.5
4	*5180.00	98.6 AV			1.32 V	2	57.1	41.5
5	#10360.00	65.8 PK	68.2	-2.4	1.05 V	225	53.2	12.6

Remarks:

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

RF Mode	802.11a	Channel	CH 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, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.7 PK	74.0	-8.3	1.22 H	50	59.8	5.9
2	5150.00	53.5 AV	54.0	-0.5	1.22 H	50	47.6	5.9
3	*5200.00	117.0 PK			1.22 H	50	75.6	41.4
4	*5200.00	106.9 AV			1.22 H	50	65.5	41.4
5	#10400.00	67.2 PK	68.2	-1.0	3.29 H	271	54.4	12.8
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	5150.00	62.0 PK	74.0	-12.0	1.32 V	2	56.1	5.9
2	5150.00	49.5 AV	54.0	-4.5	1.32 V	2	43.6	5.9
3	*5200.00	111.8 PK			1.32 V	2	70.4	41.4
4	*5200.00	101.8 AV			1.32 V	2	60.4	41.4
5	#10400.00	66.3 PK	68.2	-1.9	1.05 V	225	53.5	12.8

Remarks:

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

RF Mode	802.11a	Channel	CH 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, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	118.7 PK			1.06 H	47	77.5	41.2
2	*5240.00	108.3 AV			1.06 H	47	67.1	41.2
3	5350.00	61.2 PK	74.0	-12.8	1.06 H	47	55.8	5.4
4	5350.00	48.1 AV	54.0	-5.9	1.06 H	47	42.7	5.4
5	#10480.00	67.2 PK	68.2	-1.0	3.41 H	269	54.0	13.2
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	*5240.00	112.1 PK			1.52 V	4	70.9	41.2
2	*5240.00	102.5 AV			1.52 V	4	61.3	41.2
3	5350.00	58.5 PK	74.0	-15.5	1.52 V	4	53.1	5.4
4	5350.00	45.6 AV	54.0	-8.4	1.52 V	4	40.2	5.4
5	#10480.00	67.0 PK	68.2	-1.2	1.09 V	234	53.8	13.2

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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	64.8 PK	74.0	-9.2	1.09 H	50	58.9	5.9
2	5150.00	50.6 AV	54.0	-3.4	1.09 H	50	44.7	5.9
3	*5180.00	114.1 PK			1.09 H	50	72.6	41.5
4	*5180.00	103.7 AV			1.09 H	50	62.2	41.5
5	#10360.00	67.2 PK	68.2	-1.0	3.29 H	271	54.6	12.6
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	5150.00	60.0 PK	74.0	-14.0	1.32 V	2	54.1	5.9
2	5150.00	47.0 AV	54.0	-7.0	1.32 V	2	41.1	5.9
3	*5180.00	109.1 PK			1.32 V	2	67.6	41.5
4	*5180.00	98.6 AV			1.32 V	2	57.1	41.5
5	#10360.00	65.9 PK	68.2	-2.3	1.05 V	225	53.3	12.6

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	66.4 PK	74.0	-7.6	1.15 H	50	60.5	5.9
2	5150.00	53.2 AV	54.0	-0.8	1.15 H	50	47.3	5.9
3	*5200.00	118.2 PK			1.15 H	50	76.8	41.4
4	*5200.00	106.1 AV			1.15 H	50	64.7	41.4
5	#10400.00	67.0 PK	68.2	-1.2	3.29 H	271	54.2	12.8
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	5150.00	61.5 PK	74.0	-12.5	1.32 V	5	55.6	5.9
2	5150.00	49.0 AV	54.0	-5.0	1.32 V	5	43.1	5.9
3	*5200.00	111.7 PK			1.32 V	5	70.3	41.4
4	*5200.00	101.2 AV			1.32 V	5	59.8	41.4
5	#10400.00	65.5 PK	68.2	-2.7	1.05 V	225	52.7	12.8

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 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	119.7 PK			1.06 H	48	78.5	41.2
2	*5240.00	108.9 AV			1.06 H	48	67.7	41.2
3	5350.00	61.1 PK	74.0	-12.9	1.06 H	48	55.7	5.4
4	5350.00	48.6 AV	54.0	-5.4	1.06 H	48	43.2	5.4
5	#10480.00	67.0 PK	68.2	-1.2	3.24 H	269	53.8	13.2
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	*5240.00	115.4 PK			1.50 V	4	74.2	41.2
2	*5240.00	103.7 AV			1.50 V	4	62.5	41.2
3	5350.00	59.2 PK	74.0	-14.8	1.50 V	4	53.8	5.4
4	5350.00	46.1 AV	54.0	-7.9	1.50 V	4	40.7	5.4
5	#10480.00	65.7 PK	68.2	-2.5	1.08 V	236	52.5	13.2

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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	73.1 PK	74.0	-0.9	1.09 H	47	67.2	5.9
2	5150.00	52.5 AV	54.0	-1.5	1.09 H	47	46.6	5.9
3	*5190.00	115.1 PK			1.09 H	47	73.7	41.4
4	*5190.00	103.5 AV			1.09 H	47	62.1	41.4
5	#10380.00	65.5 PK	68.2	-2.7	3.32 H	271	52.9	12.6
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	5150.00	68.2 PK	74.0	-5.8	1.32 V	1	62.3	5.9
2	5150.00	48.3 AV	54.0	-5.7	1.32 V	1	42.4	5.9
3	*5190.00	109.7 PK			1.32 V	1	68.3	41.4
4	*5190.00	97.1 AV			1.32 V	1	55.7	41.4
5	#10380.00	65.3 PK	68.2	-2.9	1.00 V	204	52.7	12.6

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	71.7 PK	74.0	-2.3	1.01 H	48	65.8	5.9
2	5150.00	53.5 AV	54.0	-0.5	1.01 H	48	47.6	5.9
3	*5230.00	118.4 PK			1.01 H	48	77.1	41.3
4	*5230.00	106.1 AV			1.01 H	48	64.8	41.3
5	5350.00	58.0 PK	74.0	-16.0	1.01 H	48	52.6	5.4
6	5350.00	44.6 AV	54.0	-9.4	1.01 H	48	39.2	5.4
7	#10460.00	64.9 PK	68.2	-3.3	3.52 H	260	51.8	13.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.4 PK	74.0	-10.6	1.34 V	1	57.5	5.9
2	5150.00	49.1 AV	54.0	-4.9	1.34 V	1	43.2	5.9
3	*5230.00	112.1 PK			1.34 V	1	70.8	41.3
4	*5230.00	99.6 AV			1.34 V	1	58.3	41.3
5	5350.00	57.9 PK	74.0	-16.1	1.34 V	1	52.5	5.4
6	5350.00	44.6 AV	54.0	-9.4	1.34 V	1	39.2	5.4
7	#10460.00	63.8 PK	68.2	-4.4	1.00 V	208	50.7	13.1

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	67.7 PK	74.0	-6.3	1.00 H	50	61.8	5.9
2	5150.00	53.5 AV	54.0	-0.5	1.00 H	50	47.6	5.9
3	*5210.00	110.9 PK			1.00 H	50	69.5	41.4
4	*5210.00	98.4 AV			1.00 H	50	57.0	41.4
5	#10420.00	61.5 PK	68.2	-6.7	3.32 H	267	48.6	12.9
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	5150.00	61.9 PK	74.0	-12.1	1.33 V	4	56.0	5.9
2	5150.00	49.8 AV	54.0	-4.2	1.33 V	4	43.9	5.9
3	*5210.00	104.7 PK			1.33 V	4	63.3	41.4
4	*5210.00	92.6 AV			1.33 V	4	51.2	41.4
5	#10420.00	61.1 PK	68.2	-7.1	1.04 V	208	48.2	12.9

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 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, 65% RH
Tested By	Thomas Cheng		

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	61.4 PK	74.0	-12.6	1.00 H	49	55.5	5.9
2	5150.00	49.1 AV	54.0	-4.9	1.00 H	49	43.2	5.9
3	*5260.00	118.2 PK			1.00 H	49	77.1	41.1
4	*5260.00	108.2 AV			1.00 H	49	67.1	41.1
5	#10520.00	66.3 PK	68.2	-1.9	3.53 H	268	53.1	13.2
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	1.52 V	1	54.1	5.9
2	5150.00	46.6 AV	54.0	-7.4	1.52 V	1	40.7	5.9
3	*5260.00	111.6 PK			1.52 V	1	70.5	41.1
4	*5260.00	101.8 AV			1.52 V	1	60.7	41.1
5	#10520.00	65.7 PK	68.2	-2.5	1.08 V	233	52.5	13.2

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, 65% RH
Tested By	Thomas Cheng		

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	116.6 PK			1.04 H	48	75.7	40.9
2	*5300.00	106.4 AV			1.04 H	48	65.5	40.9
3	5350.00	66.6 PK	74.0	-7.4	1.04 H	48	61.2	5.4
4	5350.00	53.4 AV	54.0	-0.6	1.04 H	48	48.0	5.4
5	10600.00	63.2 PK	74.0	-10.8	3.59 H	261	50.2	13.0
6	10600.00	51.2 AV	54.0	-2.8	3.59 H	261	38.2	13.0
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	*5300.00	108.6 PK			1.46 V	1	67.7	40.9
2	*5300.00	99.1 AV			1.46 V	1	58.2	40.9
3	5350.00	60.0 PK	74.0	-14.0	1.49 V	1	54.6	5.4
4	5350.00	47.3 AV	54.0	-6.7	1.49 V	1	41.9	5.4
5	10600.00	62.3 PK	74.0	-11.7	1.05 V	232	49.3	13.0
6	10600.00	50.5 AV	54.0	-3.5	1.05 V	232	37.5	13.0

Remarks:

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

RF Mode	802.11a	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, 65% RH
Tested By	Thomas Cheng		

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	115.1 PK			1.02 H	49	74.2	40.9
2	*5320.00	104.6 AV			1.02 H	49	63.7	40.9
3	5350.00	72.3 PK	74.0	-1.7	1.02 H	49	66.9	5.4
4	5350.00	53.2 AV	54.0	-0.8	1.02 H	49	47.8	5.4
5	10640.00	62.3 PK	74.0	-11.7	3.58 H	266	49.2	13.1
6	10640.00	50.3 AV	54.0	-3.7	3.58 H	266	37.2	13.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	107.7 PK			1.45 V	5	66.8	40.9
2	*5320.00	97.6 AV			1.45 V	5	56.7	40.9
3	5350.00	65.0 PK	74.0	-9.0	1.45 V	5	59.6	5.4
4	5350.00	48.9 AV	54.0	-5.1	1.45 V	5	43.5	5.4
5	10640.00	61.9 PK	74.0	-12.1	3.54 V	263	48.8	13.1
6	10640.00	49.3 AV	54.0	-4.7	3.54 V	263	36.2	13.1

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	63.3 PK	74.0	-10.7	1.06 H	49	57.4	5.9
2	5150.00	50.1 AV	54.0	-3.9	1.06 H	49	44.2	5.9
3	*5260.00	120.2 PK			1.06 H	49	79.1	41.1
4	*5260.00	109.3 AV			1.06 H	49	68.2	41.1
5	#10520.00	66.6 PK	68.2	-1.6	3.55 H	267	53.4	13.2
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	59.6 PK	74.0	-14.4	1.60 V	6	53.7	5.9
2	5150.00	46.4 AV	54.0	-7.6	1.60 V	6	40.5	5.9
3	*5260.00	114.2 PK			1.60 V	6	73.1	41.1
4	*5260.00	103.2 AV			1.60 V	6	62.1	41.1
5	#10520.00	65.3 PK	68.2	-2.9	1.09 V	236	52.1	13.2

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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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			1.03 H	50	76.7	40.9
2	*5300.00	106.8 AV			1.03 H	50	65.9	40.9
3	5350.00	66.9 PK	74.0	-7.1	1.03 H	50	61.5	5.4
4	5350.00	53.2 AV	54.0	-0.8	1.03 H	50	47.8	5.4
5	10600.00	62.6 PK	74.0	-11.4	3.59 H	260	49.6	13.0
6	10600.00	50.2 AV	54.0	-3.8	3.59 H	260	37.2	13.0
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	*5300.00	111.7 PK			1.64 V	1	70.8	40.9
2	*5300.00	101.3 AV			1.64 V	1	60.4	40.9
3	5350.00	60.5 PK	74.0	-13.5	1.64 V	1	55.1	5.4
4	5350.00	47.9 AV	54.0	-6.1	1.64 V	1	42.5	5.4
5	10600.00	61.4 PK	74.0	-12.6	1.06 V	235	48.4	13.0
6	10600.00	49.4 AV	54.0	-4.6	1.06 V	235	36.4	13.0

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	115.7 PK			1.05 H	49	74.8	40.9
2	*5320.00	104.9 AV			1.05 H	49	64.0	40.9
3	5350.00	70.2 PK	74.0	-3.8	1.05 H	49	64.8	5.4
4	5350.00	53.1 AV	54.0	-0.9	1.05 H	49	47.7	5.4
5	10640.00	62.0 PK	74.0	-12.0	3.57 H	266	48.9	13.1
6	10640.00	50.1 AV	54.0	-3.9	3.57 H	266	37.0	13.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	111.5 PK			1.65 V	4	70.6	40.9
2	*5320.00	99.8 AV			1.65 V	4	58.9	40.9
3	5350.00	63.8 PK	74.0	-10.2	1.65 V	4	58.4	5.4
4	5350.00	48.7 AV	54.0	-5.3	1.65 V	4	43.3	5.4
5	10640.00	60.7 PK	74.0	-13.3	1.08 V	239	47.6	13.1
6	10640.00	49.0 AV	54.0	-5.0	1.08 V	239	35.9	13.1

Remarks:

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

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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	63.2 PK	74.0	-10.8	1.02 H	46	57.3	5.9
2	5150.00	50.0 AV	54.0	-4.0	1.02 H	46	44.1	5.9
3	*5270.00	117.5 PK			1.02 H	46	76.4	41.1
4	*5270.00	105.8 AV			1.02 H	46	64.7	41.1
5	5350.00	69.1 PK	74.0	-4.9	1.02 H	46	63.7	5.4
6	5350.00	53.5 AV	54.0	-0.5	1.02 H	46	48.1	5.4
7	#10540.00	63.7 PK	68.2	-4.5	3.54 H	260	50.5	13.2
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	59.8 PK	74.0	-14.2	1.50 V	0	53.9	5.9
2	5150.00	46.9 AV	54.0	-7.1	1.50 V	0	41.0	5.9
3	*5270.00	111.2 PK			1.50 V	0	70.1	41.1
4	*5270.00	99.3 AV			1.50 V	0	58.2	41.1
5	5350.00	63.5 PK	74.0	-10.5	1.50 V	0	58.1	5.4
6	5350.00	49.1 AV	54.0	-4.9	1.50 V	0	43.7	5.4
7	#10540.00	63.4 PK	68.2	-4.8	1.02 V	206	50.2	13.2

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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	*5310.00	114.2 PK			1.01 H	46	73.3	40.9
2	*5310.00	102.0 AV			1.01 H	46	61.1	40.9
3	5350.00	73.4 PK	74.0	-0.6	1.01 H	46	68.0	5.4
4	5350.00	52.4 AV	54.0	-1.6	1.01 H	46	47.0	5.4
5	10620.00	62.6 PK	74.0	-11.4	3.54 H	262	49.7	12.9
6	10620.00	49.8 AV	54.0	-4.2	3.54 H	262	36.9	12.9
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	*5310.00	109.0 PK			1.56 V	3	68.1	40.9
2	*5310.00	95.9 AV			1.56 V	3	55.0	40.9
3	5350.00	67.0 PK	74.0	-7.0	1.56 V	3	61.6	5.4
4	5350.00	48.8 AV	54.0	-5.2	1.56 V	3	43.4	5.4
5	10620.00	62.2 PK	74.0	-11.8	1.04 V	208	49.3	12.9
6	10620.00	49.2 AV	54.0	-4.8	1.04 V	208	36.3	12.9

Remarks:

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

RF Mode	802.11ax (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, 65% RH
Tested By	Thomas Cheng		

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	*5290.00	110.6 PK			1.00 H	50	69.7	40.9
2	*5290.00	97.4 AV			1.00 H	50	56.5	40.9
3	5350.00	69.7 PK	74.0	-4.3	1.00 H	50	64.3	5.4
4	5350.00	53.5 AV	54.0	-0.5	1.00 H	50	48.1	5.4
5	#10580.00	61.7 PK	68.2	-6.5	3.31 H	268	48.6	13.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	103.1 PK			1.32 V	0	62.2	40.9
2	*5290.00	91.5 AV			1.32 V	0	50.6	40.9
3	5350.00	64.5 PK	74.0	-9.5	1.32 V	0	59.1	5.4
4	5350.00	49.4 AV	54.0	-4.6	1.32 V	0	44.0	5.4
5	#10580.00	61.4 PK	68.2	-6.8	1.06 V	205	48.3	13.1

Remarks:

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

RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	63.0 PK	74.0	-11.0	1.03 H	47	57.2	5.8
2	5460.00	48.3 AV	54.0	-5.7	1.03 H	47	42.5	5.8
3	#5470.00	67.2 PK	68.2	-1.0	1.03 H	47	61.4	5.8
4	*5500.00	114.8 PK			1.03 H	47	73.3	41.5
5	*5500.00	104.7 AV			1.03 H	47	63.2	41.5
6	11000.00	61.0 PK	74.0	-13.0	2.70 H	291	48.4	12.6
7	11000.00	48.4 AV	54.0	-5.6	2.70 H	291	35.8	12.6
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	59.5 PK	74.0	-14.5	1.45 V	1	53.7	5.8
2	5460.00	46.6 AV	54.0	-7.4	1.45 V	1	40.8	5.8
3	#5470.00	61.7 PK	68.2	-6.5	1.45 V	1	55.9	5.8
4	*5500.00	111.2 PK			1.45 V	1	69.7	41.5
5	*5500.00	101.2 AV			1.45 V	1	59.7	41.5
6	11000.00	60.7 PK	74.0	-13.3	1.87 V	234	48.1	12.6
7	11000.00	48.2 AV	54.0	-5.8	1.87 V	234	35.6	12.6

Remarks:

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

RF Mode	802.11a	Channel	CH 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, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	116.4 PK			1.01 H	52	74.6	41.8
2	*5580.00	106.2 AV			1.01 H	52	64.4	41.8
3	11160.00	60.6 PK	74.0	-13.4	1.98 H	300	48.1	12.5
4	11160.00	48.4 AV	54.0	-5.6	1.98 H	300	35.9	12.5
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	*5580.00	113.5 PK			1.45 V	3	71.7	41.8
2	*5580.00	103.6 AV			1.45 V	3	61.8	41.8
3	11160.00	60.4 PK	74.0	-13.6	2.51 V	221	47.9	12.5
4	11160.00	47.9 AV	54.0	-6.1	2.51 V	221	35.4	12.5

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.

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, 65% RH
Tested By	Thomas Cheng		

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	111.8 PK			1.00 H	48	70.1	41.7
2	*5700.00	101.8 AV			1.00 H	48	60.1	41.7
3	#5725.00	67.6 PK	68.2	-0.6	1.00 H	48	61.6	6.0
4	11400.00	61.4 PK	74.0	-12.6	2.52 H	195	48.5	12.9
5	11400.00	49.3 AV	54.0	-4.7	2.52 H	195	36.4	12.9
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	*5700.00	109.7 PK			1.21 V	5	68.0	41.7
2	*5700.00	100.0 AV			1.21 V	5	58.3	41.7
3	#5725.00	66.2 PK	68.2	-2.0	1.21 V	5	60.2	6.0
4	11400.00	61.1 PK	74.0	-12.9	3.70 V	246	48.2	12.9
5	11400.00	49.0 AV	54.0	-5.0	3.70 V	246	36.1	12.9

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	66.3 PK	74.0	-7.7	1.01 H	50	60.5	5.8
2	5460.00	53.3 AV	54.0	-0.7	1.01 H	50	47.5	5.8
3	#5470.00	67.7 PK	68.2	-0.5	1.01 H	50	61.9	5.8
4	*5500.00	116.5 PK			1.01 H	50	75.0	41.5
5	*5500.00	104.2 AV			1.01 H	50	62.7	41.5
6	11000.00	60.7 PK	74.0	-13.3	3.78 H	28	48.1	12.6
7	11000.00	48.8 AV	54.0	-5.2	3.78 H	28	36.2	12.6
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	61.6 PK	74.0	-12.4	1.13 V	4	55.8	5.8
2	5460.00	49.0 AV	54.0	-5.0	1.13 V	4	43.2	5.8
3	#5470.00	63.7 PK	68.2	-4.5	1.13 V	4	57.9	5.8
4	*5500.00	112.1 PK			1.13 V	4	70.6	41.5
5	*5500.00	99.5 AV			1.13 V	4	58.0	41.5
6	11000.00	60.3 PK	74.0	-13.7	1.74 V	78	47.7	12.6
7	11000.00	48.6 AV	54.0	-5.4	1.74 V	78	36.0	12.6

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	118.2 PK			1.05 H	45	76.4	41.8
2	*5580.00	105.2 AV			1.05 H	45	63.4	41.8
3	11160.00	60.4 PK	74.0	-13.6	3.11 H	312	47.9	12.5
4	11160.00	48.3 AV	54.0	-5.7	3.11 H	312	35.8	12.5
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	*5580.00	114.6 PK			1.15 V	6	72.8	41.8
2	*5580.00	102.8 AV			1.15 V	6	61.0	41.8
3	11160.00	60.1 PK	74.0	-13.9	1.20 V	142	47.6	12.5
4	11160.00	48.0 AV	54.0	-6.0	1.20 V	142	35.5	12.5

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.

RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	113.6 PK			1.06 H	48	71.9	41.7
2	*5700.00	100.8 AV			1.06 H	48	59.1	41.7
3	#5725.00	67.5 PK	68.2	-0.7	1.06 H	47	61.5	6.0
4	11400.00	60.4 PK	74.0	-13.6	3.04 H	87	47.5	12.9
5	11400.00	49.1 AV	54.0	-4.9	3.04 H	87	36.2	12.9
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	*5700.00	111.7 PK			1.19 V	1	70.0	41.7
2	*5700.00	99.5 AV			1.19 V	1	57.8	41.7
3	#5725.00	61.8 PK	68.2	-6.4	1.19 V	1	55.8	6.0
4	11400.00	60.1 PK	74.0	-13.9	1.26 V	232	47.2	12.9
5	11400.00	48.8 AV	54.0	-5.2	1.26 V	232	35.9	12.9

Remarks:

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

RF Mode	802.11ax (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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	64.9 PK	74.0	-9.1	1.02 H	46	59.1	5.8
2	5460.00	51.0 AV	54.0	-3.0	1.02 H	46	45.2	5.8
3	#5470.00	67.6 PK	68.2	-0.6	1.02 H	46	61.8	5.8
4	*5510.00	111.9 PK			1.02 H	46	70.3	41.6
5	*5510.00	99.3 AV			1.02 H	46	57.7	41.6
6	11020.00	60.1 PK	74.0	-13.9	3.16 H	176	47.6	12.5
7	11020.00	48.9 AV	54.0	-5.1	3.16 H	176	36.4	12.5
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	60.7 PK	74.0	-13.3	1.38 V	0	54.9	5.8
2	5460.00	47.6 AV	54.0	-6.4	1.38 V	0	41.8	5.8
3	#5470.00	63.2 PK	68.2	-5.0	1.38 V	0	57.4	5.8
4	*5510.00	107.5 PK			1.38 V	0	65.9	41.6
5	*5510.00	96.0 AV			1.38 V	0	54.4	41.6
6	11020.00	59.8 PK	74.0	-14.2	1.78 V	60	47.3	12.5
7	11020.00	48.7 AV	54.0	-5.3	1.78 V	60	36.2	12.5

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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	117.4 PK			1.01 H	46	75.7	41.7
2	*5550.00	104.7 AV			1.01 H	46	63.0	41.7
3	11100.00	60.2 PK	74.0	-13.8	3.25 H	321	47.9	12.3
4	11100.00	48.8 AV	54.0	-5.2	3.25 H	321	36.5	12.3
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	*5550.00	114.5 PK			1.38 V	1	72.8	41.7
2	*5550.00	101.9 AV			1.38 V	1	60.2	41.7
3	11100.00	60.0 PK	74.0	-14.0	1.71 V	316	47.7	12.3
4	11100.00	48.7 AV	54.0	-5.3	1.71 V	316	36.4	12.3

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 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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	*5670.00	113.3 PK			1.00 H	49	71.5	41.8
2	*5670.00	100.7 AV			1.00 H	49	58.9	41.8
3	#5725.00	67.6 PK	68.2	-0.6	1.00 H	49	61.6	6.0
4	11340.00	60.3 PK	74.0	-13.7	3.15 H	176	47.6	12.7
5	11340.00	48.7 AV	54.0	-5.3	3.15 H	176	36.0	12.7
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	*5670.00	111.5 PK			1.23 V	1	69.7	41.8
2	*5670.00	99.0 AV			1.23 V	1	57.2	41.8
3	#5725.00	65.8 PK	68.2	-2.4	1.23 V	1	59.8	6.0
4	11340.00	60.2 PK	74.0	-13.8	1.56 V	256	47.5	12.7
5	11340.00	48.5 AV	54.0	-5.5	1.56 V	256	35.8	12.7

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	66.4 PK	74.0	-7.6	1.00 H	51	60.6	5.8
2	5460.00	51.1 AV	54.0	-2.9	1.00 H	51	45.3	5.8
3	#5470.00	67.5 PK	68.2	-0.7	1.00 H	51	61.7	5.8
4	*5530.00	109.2 PK			1.00 H	51	67.5	41.7
5	*5530.00	96.0 AV			1.00 H	51	54.3	41.7
6	11060.00	60.7 PK	74.0	-13.3	2.70 H	96	48.2	12.5
7	11060.00	48.4 AV	54.0	-5.6	2.70 H	96	35.9	12.5
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	62.3 PK	74.0	-11.7	1.12 V	8	56.5	5.8
2	5460.00	48.1 AV	54.0	-5.9	1.12 V	8	42.3	5.8
3	#5470.00	62.5 PK	68.2	-5.7	1.12 V	8	56.7	5.8
4	*5530.00	106.4 PK			1.12 V	8	64.7	41.7
5	*5530.00	93.9 AV			1.12 V	8	52.2	41.7
6	11060.00	60.4 PK	74.0	-13.6	1.70 V	96	47.9	12.5
7	11060.00	48.1 AV	54.0	-5.9	1.70 V	96	35.6	12.5

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 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, 65% RH
Tested By	Thomas Cheng		

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	66.7 PK	74.0	-7.3	1.00 H	48	60.9	5.8
2	5460.00	52.7 AV	54.0	-1.3	1.00 H	48	46.9	5.8
3	#5470.00	67.5 PK	68.2	-0.7	1.00 H	48	61.7	5.8
4	*5610.00	112.5 PK			1.00 H	48	70.6	41.9
5	*5610.00	100.2 AV			1.00 H	48	58.3	41.9
6	#5725.00	66.5 PK	68.2	-1.7	1.00 H	48	60.5	6.0
7	11220.00	60.3 PK	74.0	-13.7	3.16 H	349	47.8	12.5
8	11220.00	48.8 AV	54.0	-5.2	3.16 H	349	36.3	12.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.7 PK	74.0	-12.3	1.33 V	1	55.9	5.8
2	5460.00	48.9 AV	54.0	-5.1	1.33 V	1	43.1	5.8
3	#5470.00	63.1 PK	68.2	-5.1	1.33 V	1	57.3	5.8
4	*5610.00	109.6 PK			1.33 V	1	67.7	41.9
5	*5610.00	97.8 AV			1.33 V	1	55.9	41.9
6	#5725.00	63.9 PK	68.2	-4.3	1.33 V	1	57.9	6.0
7	11220.00	59.8 PK	74.0	-14.2	1.63 V	224	47.3	12.5
8	11220.00	48.5 AV	54.0	-5.5	1.63 V	224	36.0	12.5

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 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, 65% RH
Tested By	Thomas Cheng		

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	60.2 PK	68.2	-8.0	1.00 H	49	53.9	6.3
2	*5745.00	117.2 PK			1.00 H	49	75.4	41.8
3	*5745.00	106.9 AV			1.00 H	49	65.1	41.8
4	#5985.60	60.8 PK	68.2	-7.4	1.00 H	49	53.9	6.9
5	11490.00	61.4 PK	74.0	-12.6	2.65 H	96	48.5	12.9
6	11490.00	49.2 AV	54.0	-4.8	2.65 H	96	36.3	12.9
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	#5602.00	60.2 PK	68.2	-8.0	1.45 V	3	53.9	6.3
2	*5745.00	114.7 PK			1.45 V	3	72.9	41.8
3	*5745.00	104.7 AV			1.45 V	3	62.9	41.8
4	#5972.80	60.1 PK	68.2	-8.1	1.45 V	3	53.2	6.9
5	11490.00	61.0 PK	74.0	-13.0	1.94 V	307	48.1	12.9
6	11490.00	48.9 AV	54.0	-5.1	1.94 V	307	36.0	12.9

Remarks:

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

RF Mode	802.11a	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, 65% RH
Tested By	Thomas Cheng		

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	#5626.40	60.4 PK	68.2	-7.8	1.02 H	48	54.1	6.3
2	*5785.00	116.9 PK			1.02 H	48	74.8	42.1
3	*5785.00	106.6 AV			1.02 H	48	64.5	42.1
4	#5928.40	61.1 PK	68.2	-7.1	1.02 H	48	54.4	6.7
5	11570.00	60.7 PK	74.0	-13.3	2.20 H	227	48.5	12.2
6	11570.00	48.4 AV	54.0	-5.6	2.20 H	227	36.2	12.2
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	#5622.80	60.7 PK	68.2	-7.5	1.20 V	3	54.4	6.3
2	*5785.00	114.6 PK			1.20 V	3	72.5	42.1
3	*5785.00	104.7 AV			1.20 V	3	62.6	42.1
4	#5983.20	61.2 PK	68.2	-7.0	1.20 V	3	54.3	6.9
5	11570.00	60.4 PK	74.0	-13.6	1.70 V	7	48.2	12.2
6	11570.00	48.1 AV	54.0	-5.9	1.70 V	7	35.9	12.2

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 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, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.80	60.3 PK	68.2	-7.9	1.00 H	50	54.0	6.3
2	*5825.00	116.5 PK			1.00 H	50	74.1	42.4
3	*5825.00	106.5 AV			1.00 H	50	64.1	42.4
4	#5954.40	61.5 PK	68.2	-6.7	1.00 H	50	54.6	6.9
5	11650.00	59.4 PK	74.0	-14.6	2.06 H	145	47.9	11.5
6	11650.00	47.7 AV	54.0	-6.3	2.06 H	145	36.2	11.5
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	#5621.20	59.9 PK	68.2	-8.3	1.39 V	4	53.6	6.3
2	*5825.00	114.6 PK			1.39 V	4	72.2	42.4
3	*5825.00	104.7 AV			1.39 V	4	62.3	42.4
4	#5976.00	61.2 PK	68.2	-7.0	1.39 V	4	54.3	6.9
5	11650.00	59.2 PK	74.0	-14.8	1.49 V	273	47.7	11.5
6	11650.00	47.3 AV	54.0	-6.7	1.49 V	273	35.8	11.5

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	#5648.00	61.4 PK	68.2	-6.8	1.00 H	50	55.2	6.2
2	*5745.00	115.6 PK			1.00 H	50	73.8	41.8
3	*5745.00	103.4 AV			1.00 H	50	61.6	41.8
4	#5960.40	59.6 PK	68.2	-8.6	1.00 H	50	52.7	6.9
5	11490.00	60.7 PK	74.0	-13.3	1.91 H	291	47.8	12.9
6	11490.00	48.9 AV	54.0	-5.1	1.91 H	291	36.0	12.9
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	#5632.00	59.7 PK	68.2	-8.5	1.00 V	3	53.4	6.3
2	*5745.00	113.9 PK			1.00 V	3	72.1	41.8
3	*5745.00	102.1 AV			1.00 V	3	60.3	41.8
4	#5979.20	60.8 PK	68.2	-7.4	1.00 V	3	53.9	6.9
5	11490.00	60.4 PK	74.0	-13.6	1.52 V	141	47.5	12.9
6	11490.00	48.7 AV	54.0	-5.3	1.52 V	141	35.8	12.9

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.40	60.2 PK	68.2	-8.0	1.00 H	73	53.9	6.3
2	*5785.00	116.5 PK			1.00 H	73	74.4	42.1
3	*5785.00	104.1 AV			1.00 H	73	62.0	42.1
4	#5956.40	60.3 PK	68.2	-7.9	1.00 H	73	53.4	6.9
5	11570.00	60.3 PK	74.0	-13.7	2.97 H	216	48.1	12.2
6	11570.00	48.3 AV	54.0	-5.7	2.97 H	216	36.1	12.2
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	#5611.60	59.4 PK	68.2	-8.8	1.26 V	2	53.2	6.2
2	*5785.00	114.7 PK			1.26 V	2	72.6	42.1
3	*5785.00	103.0 AV			1.26 V	2	60.9	42.1
4	#5948.00	59.7 PK	68.2	-8.5	1.26 V	2	53.0	6.7
5	11570.00	59.9 PK	74.0	-14.1	2.30 V	140	47.7	12.2
6	11570.00	48.0 AV	54.0	-6.0	2.30 V	140	35.8	12.2

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 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	#5648.80	59.5 PK	68.2	-8.7	1.00 H	71	53.3	6.2
2	*5825.00	117.6 PK			1.00 H	71	75.2	42.4
3	*5825.00	105.2 AV			1.00 H	71	62.8	42.4
4	#5938.00	61.3 PK	68.2	-6.9	1.00 H	71	54.6	6.7
5	11650.00	59.1 PK	74.0	-14.9	3.39 H	202	47.6	11.5
6	11650.00	47.5 AV	54.0	-6.5	3.39 H	202	36.0	11.5
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	#5645.20	59.3 PK	68.2	-8.9	1.09 V	2	53.1	6.2
2	*5825.00	115.2 PK			1.09 V	2	72.8	42.4
3	*5825.00	103.2 AV			1.09 V	2	60.8	42.4
4	#5925.60	60.5 PK	68.2	-7.7	1.09 V	2	53.8	6.7
5	11650.00	59.0 PK	74.0	-15.0	1.31 V	72	47.5	11.5
6	11650.00	47.3 AV	54.0	-6.7	1.31 V	72	35.8	11.5

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.20	67.3 PK	68.2	-0.9	1.00 H	47	61.0	6.3
2	*5755.00	114.6 PK			1.00 H	47	72.7	41.9
3	*5755.00	102.1 AV			1.00 H	47	60.2	41.9
4	#5934.00	60.4 PK	68.2	-7.8	1.00 H	47	53.7	6.7
5	11510.00	60.3 PK	74.0	-13.7	2.19 H	170	47.6	12.7
6	11510.00	48.9 AV	54.0	-5.1	2.19 H	170	36.2	12.7
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	#5644.40	64.5 PK	68.2	-3.7	1.14 V	1	58.2	6.3
2	*5755.00	112.2 PK			1.14 V	1	70.3	41.9
3	*5755.00	100.1 AV			1.14 V	1	58.2	41.9
4	#5974.40	60.4 PK	68.2	-7.8	1.14 V	1	53.5	6.9
5	11510.00	60.0 PK	74.0	-14.0	1.26 V	125	47.3	12.7
6	11510.00	48.7 AV	54.0	-5.3	1.26 V	125	36.0	12.7

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 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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.00	61.4 PK	68.2	-6.8	1.05 H	47	55.1	6.3
2	*5795.00	115.1 PK			1.05 H	47	72.9	42.2
3	*5795.00	102.0 AV			1.05 H	47	59.8	42.2
4	#5967.60	60.2 PK	68.2	-8.0	1.05 H	47	53.3	6.9
5	11590.00	59.9 PK	74.0	-14.1	2.86 H	114	48.1	11.8
6	11590.00	48.6 AV	54.0	-5.4	2.86 H	114	36.8	11.8
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	#5604.00	59.7 PK	68.2	-8.5	1.15 V	4	53.4	6.3
2	*5795.00	112.1 PK			1.15 V	4	69.9	42.2
3	*5795.00	100.2 AV			1.15 V	4	58.0	42.2
4	#5957.20	60.1 PK	68.2	-8.1	1.15 V	4	53.2	6.9
5	11590.00	59.5 PK	74.0	-14.5	2.13 V	45	47.7	11.8
6	11590.00	48.2 AV	54.0	-5.8	2.13 V	45	36.4	11.8

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, 65% RH
Tested By	Thomas Cheng		

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	67.5 PK	68.2	-0.7	1.00 H	48	61.2	6.3
2	*5775.00	109.0 PK			1.00 H	48	67.0	42.0
3	*5775.00	97.0 AV			1.00 H	48	55.0	42.0
4	#5930.00	61.8 PK	68.2	-6.4	1.00 H	48	55.1	6.7
5	11550.00	60.3 PK	74.0	-13.7	3.42 H	279	48.0	12.3
6	11550.00	48.3 AV	54.0	-5.7	3.42 H	279	36.0	12.3
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	#5648.40	64.0 PK	68.2	-4.2	1.32 V	2	57.8	6.2
2	*5775.00	107.9 PK			1.32 V	2	65.9	42.0
3	*5775.00	96.1 AV			1.32 V	2	54.1	42.0
4	#5937.20	60.5 PK	68.2	-7.7	1.32 V	2	53.8	6.7
5	11550.00	60.1 PK	74.0	-13.9	1.55 V	357	47.8	12.3
6	11550.00	48.2 AV	54.0	-5.8	1.55 V	357	35.9	12.3

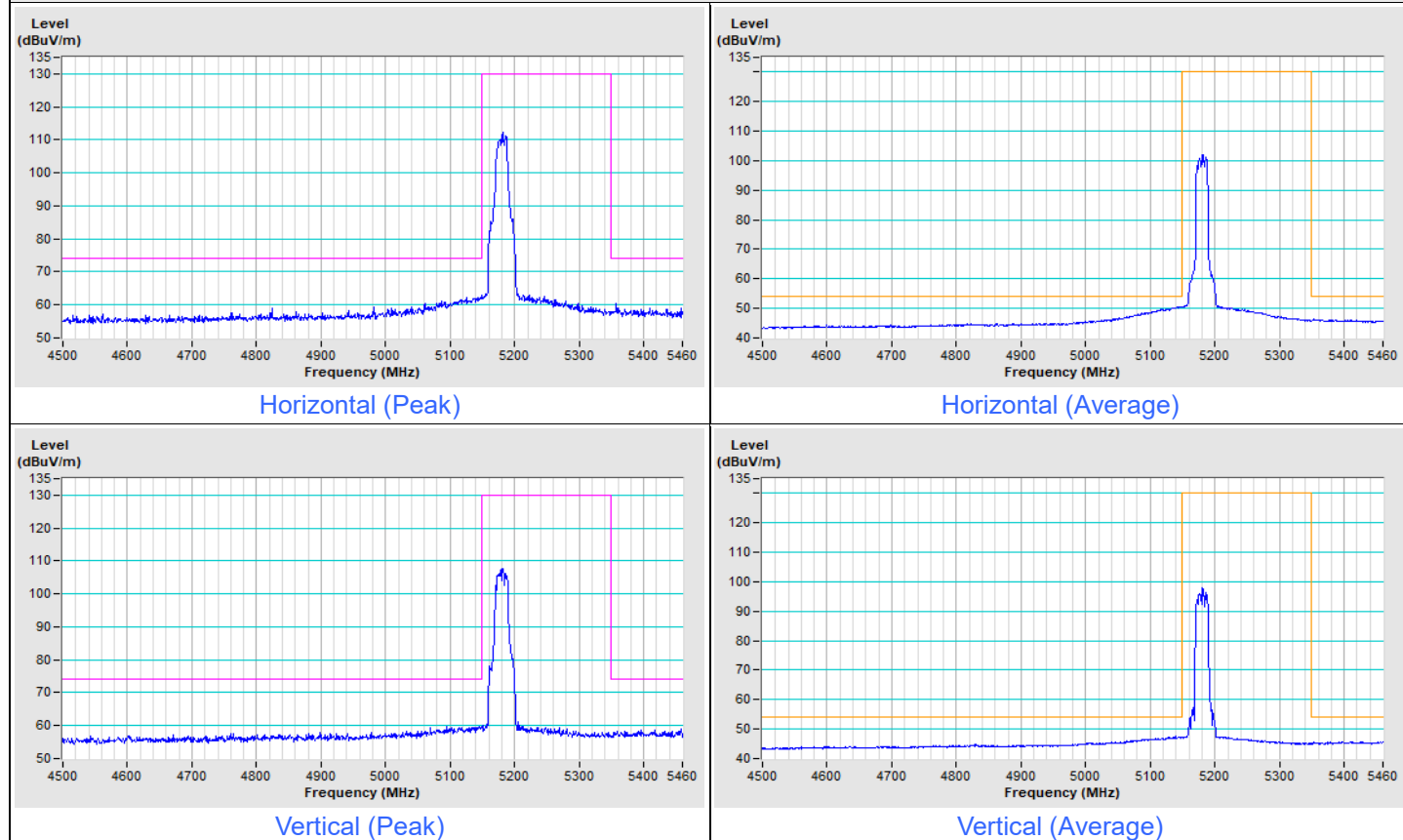
Remarks:

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.

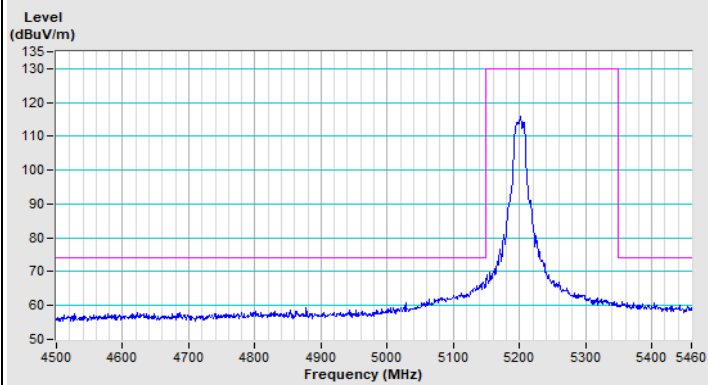
Plot of Band Edge

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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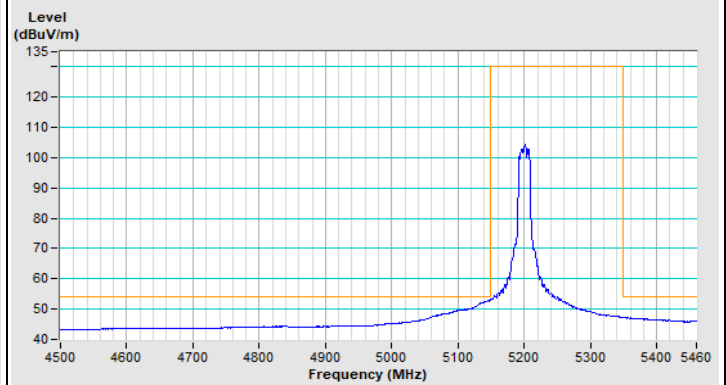
802.11a Channel 36



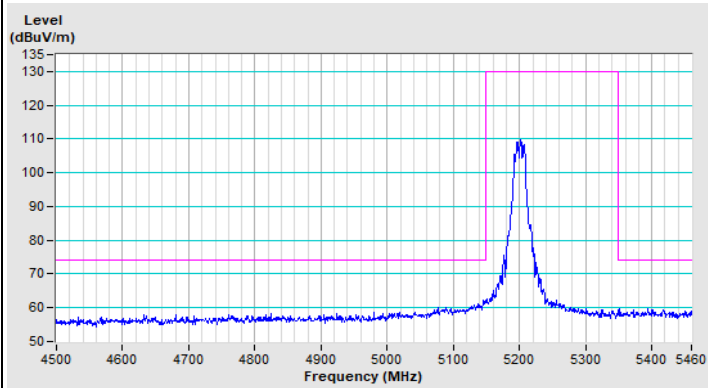
802.11a Channel 40



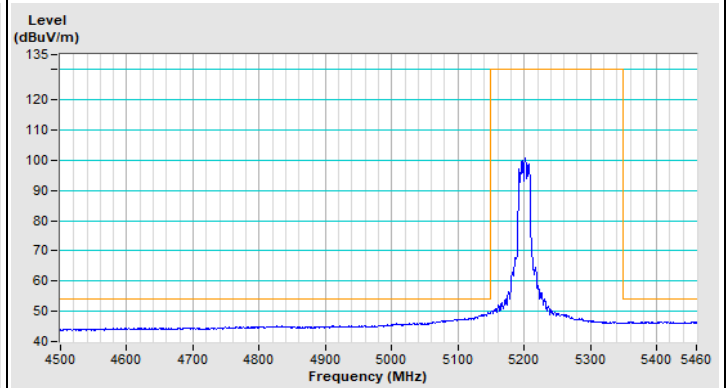
Horizontal (Peak)



Horizontal (Average)

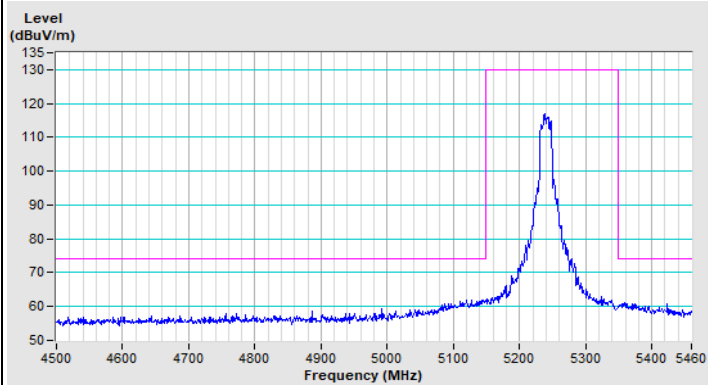


Vertical (Peak)

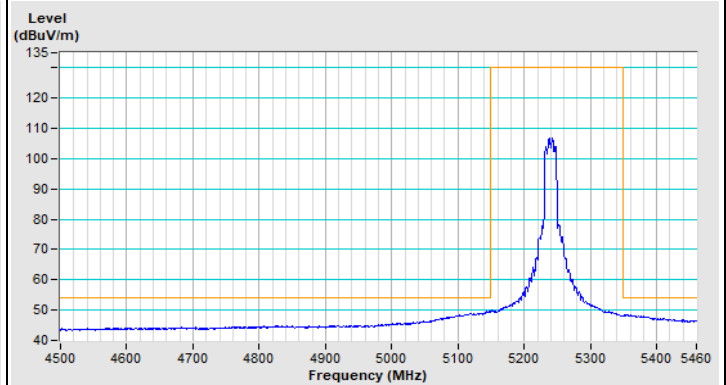


Vertical (Average)

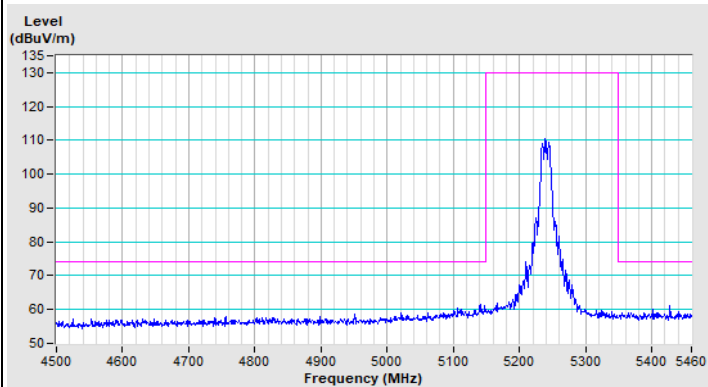
802.11a Channel 48



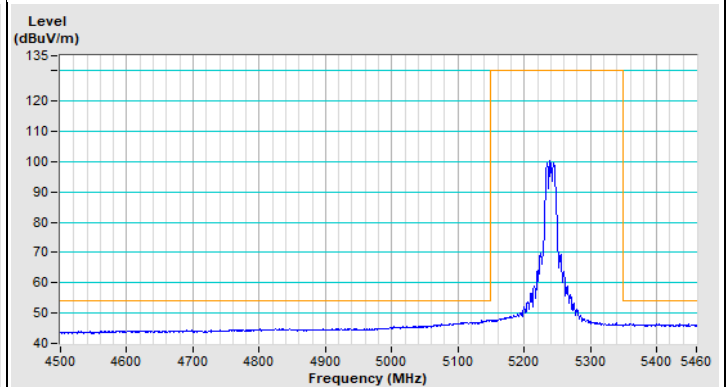
Horizontal (Peak)



Horizontal (Average)



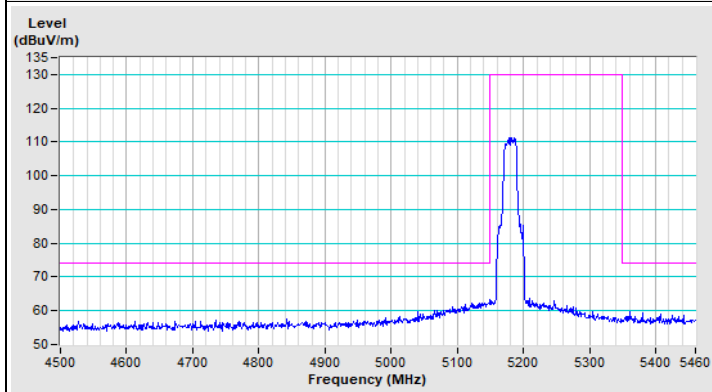
Vertical (Peak)



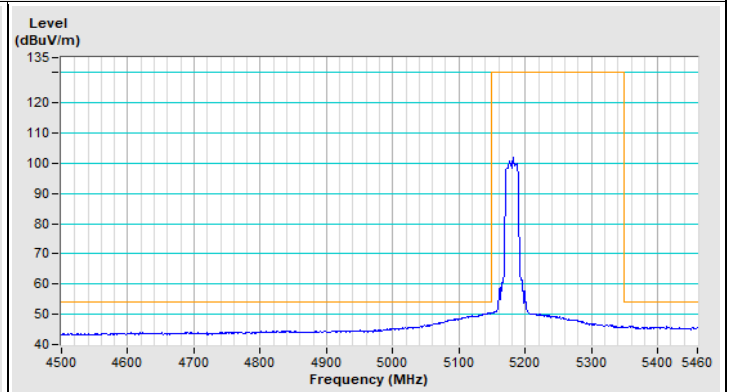
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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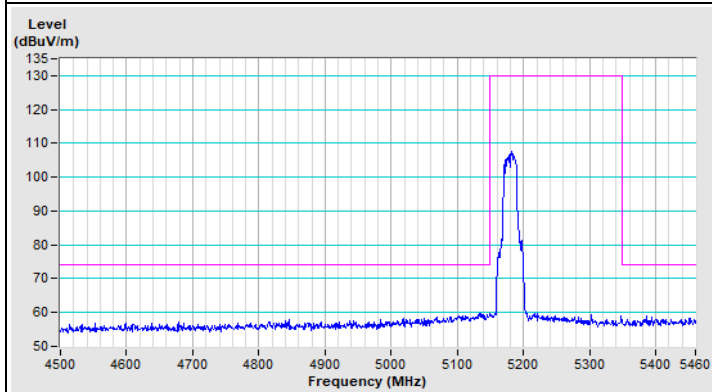
802.11ax (HE20) Channel 36



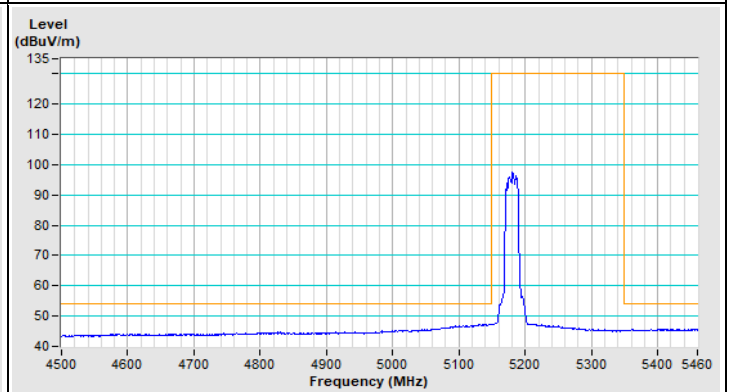
Horizontal (Peak)



Horizontal (Average)

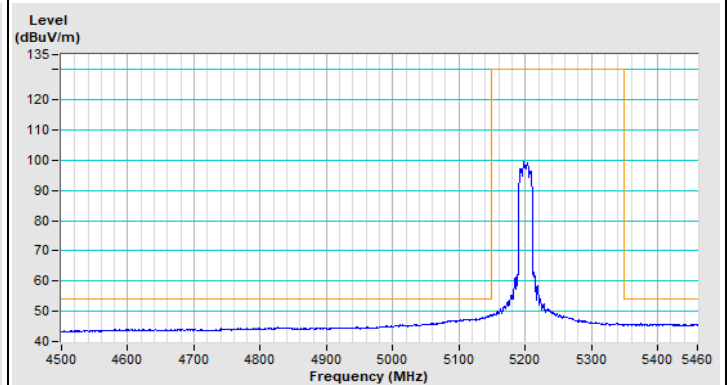
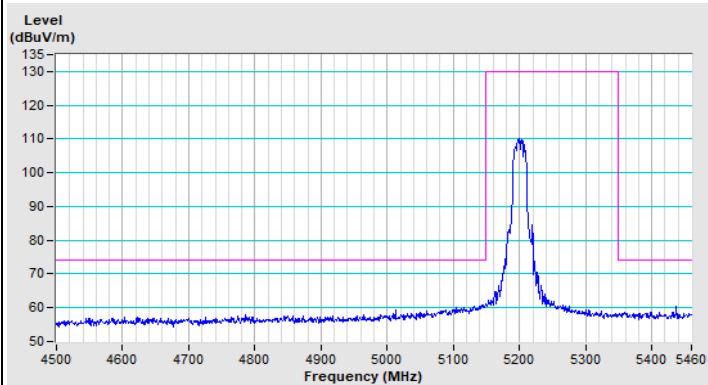
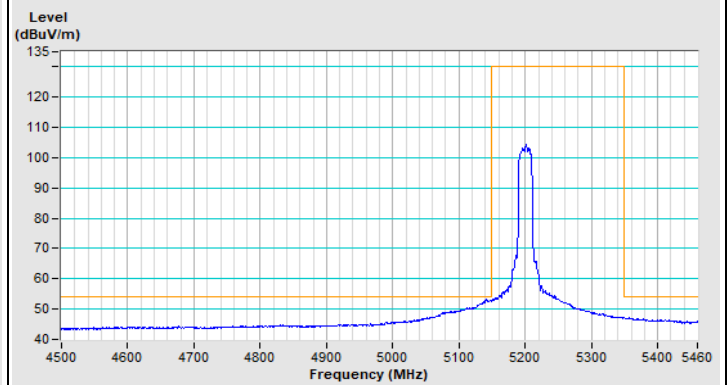
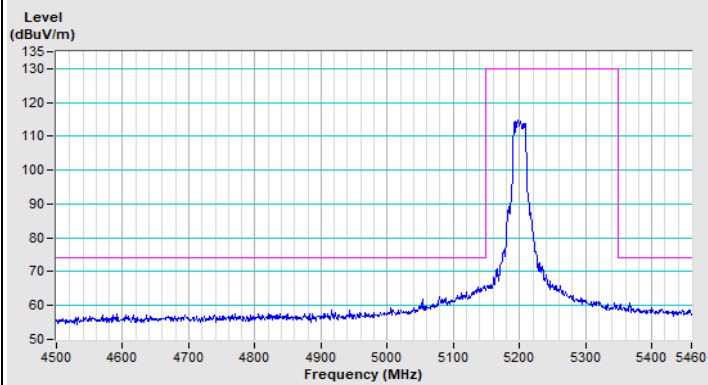


Vertical (Peak)

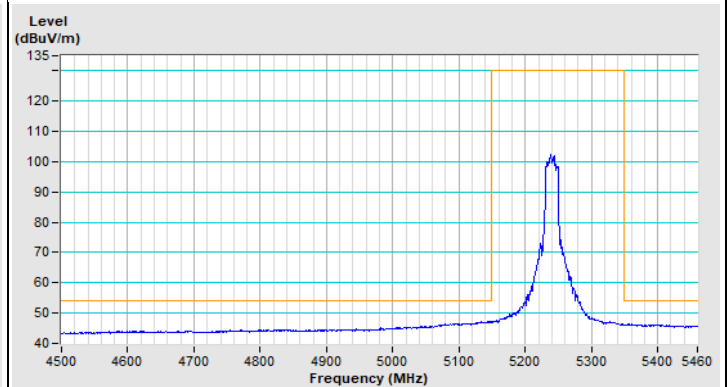
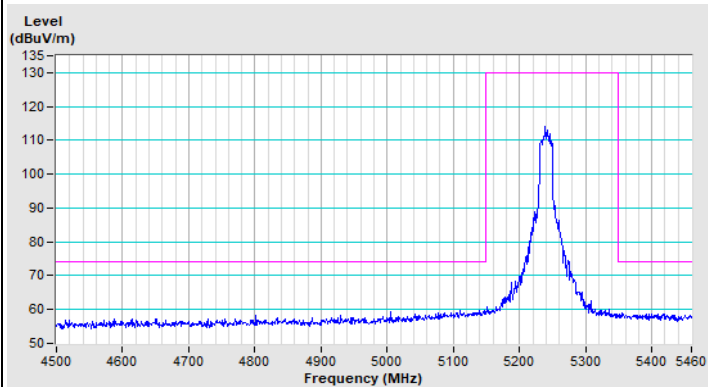
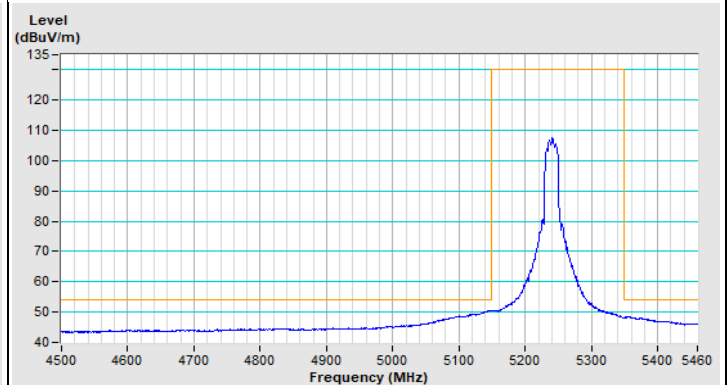
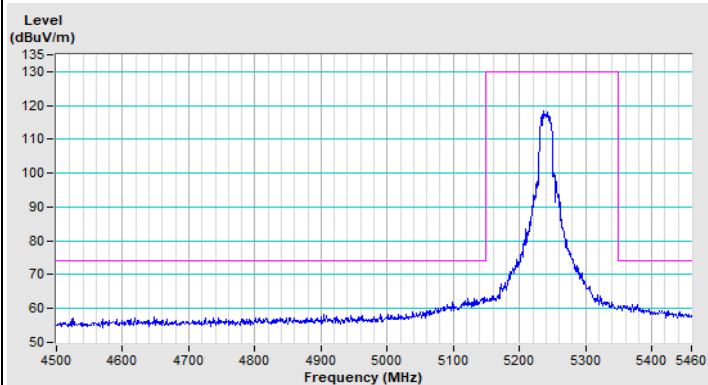


Vertical (Average)

802.11ax (HE20) Channel 40

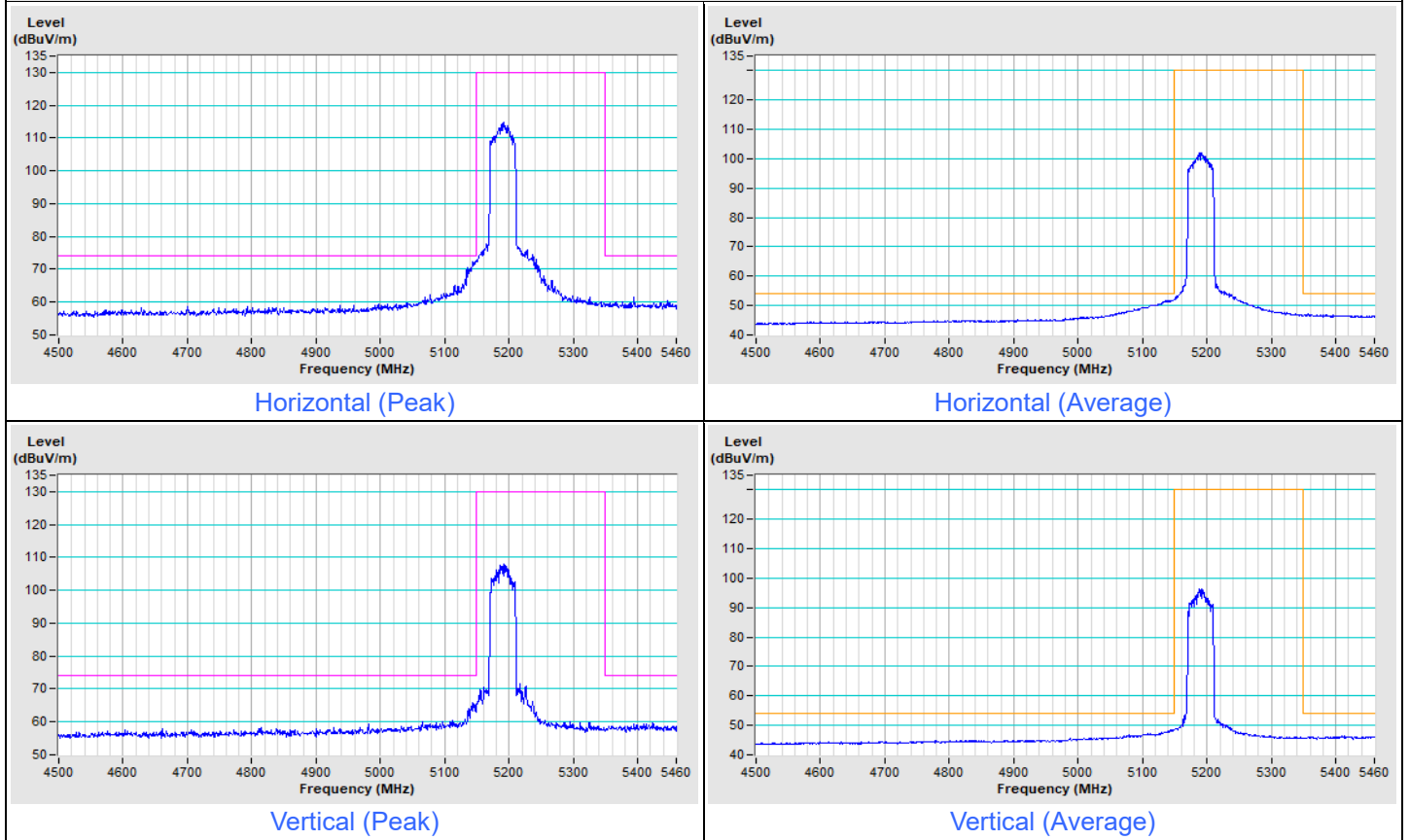


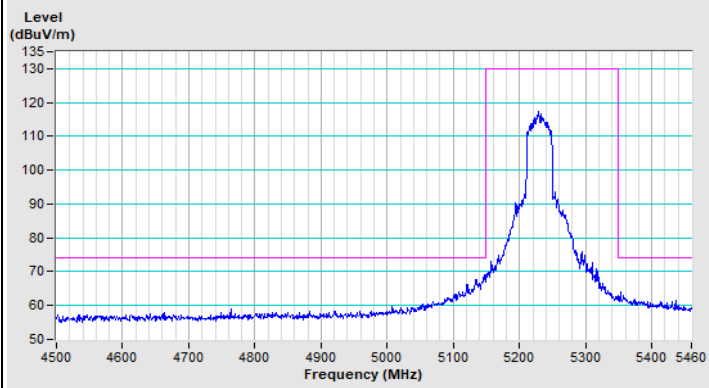
802.11ax (HE20) Channel 48



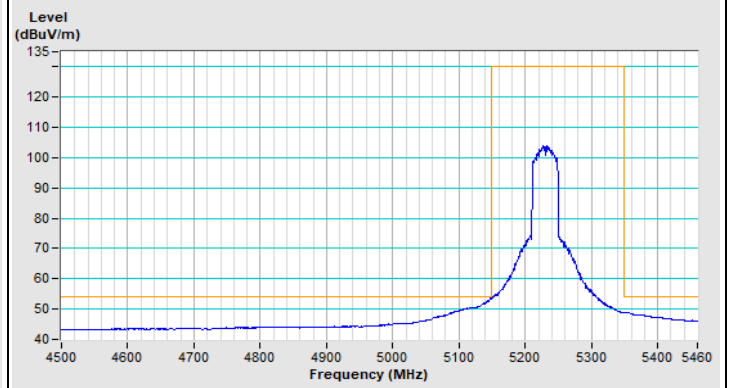
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE40) Channel 38

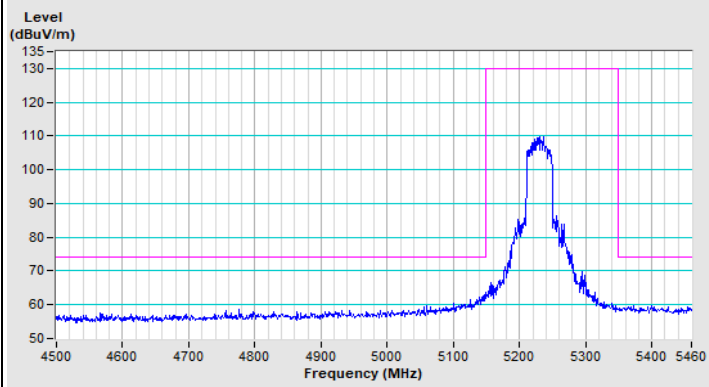


802.11ax (HE40) Channel 46

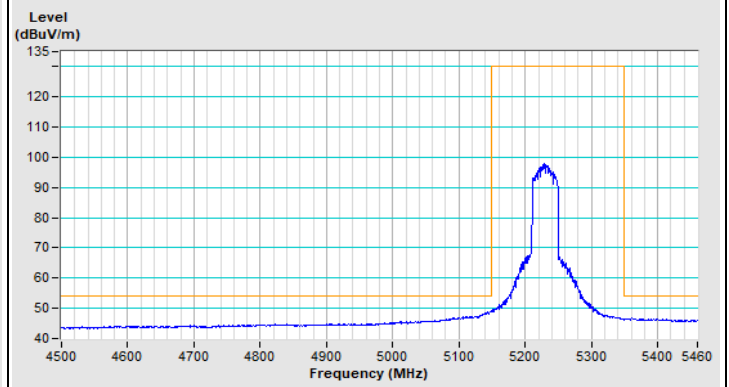
Horizontal (Peak)



Horizontal (Average)



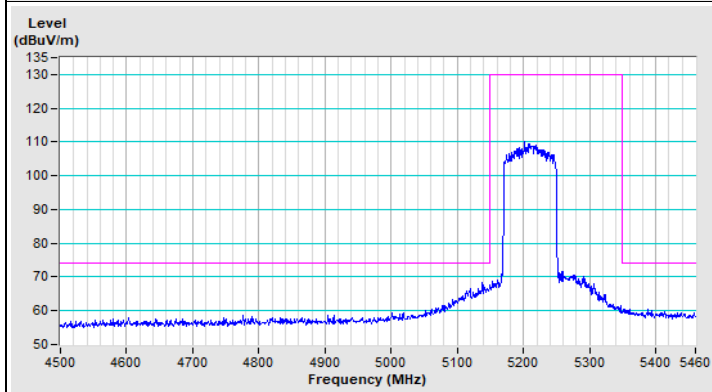
Vertical (Peak)



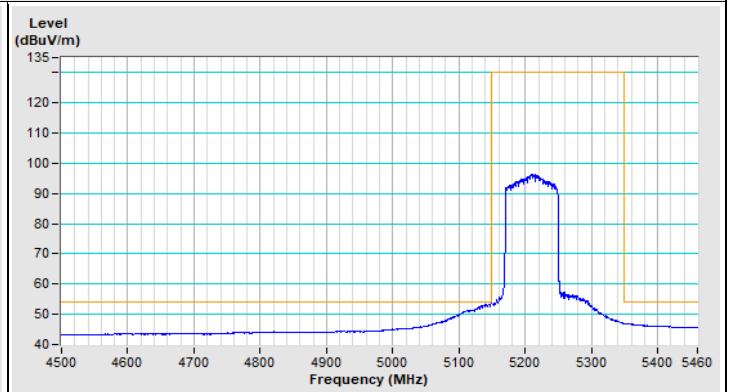
Vertical (Average)

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=1 kHz, DET=Peak
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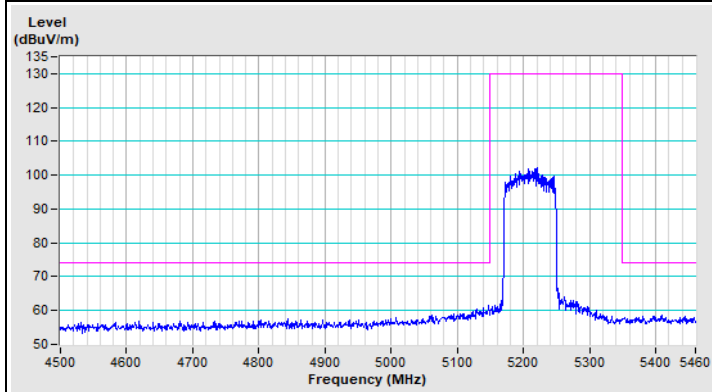
802.11ax (HE80) Channel 42



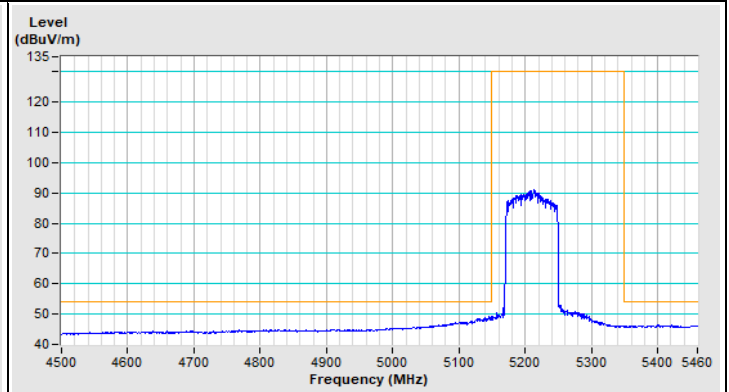
Horizontal (Peak)



Horizontal (Average)



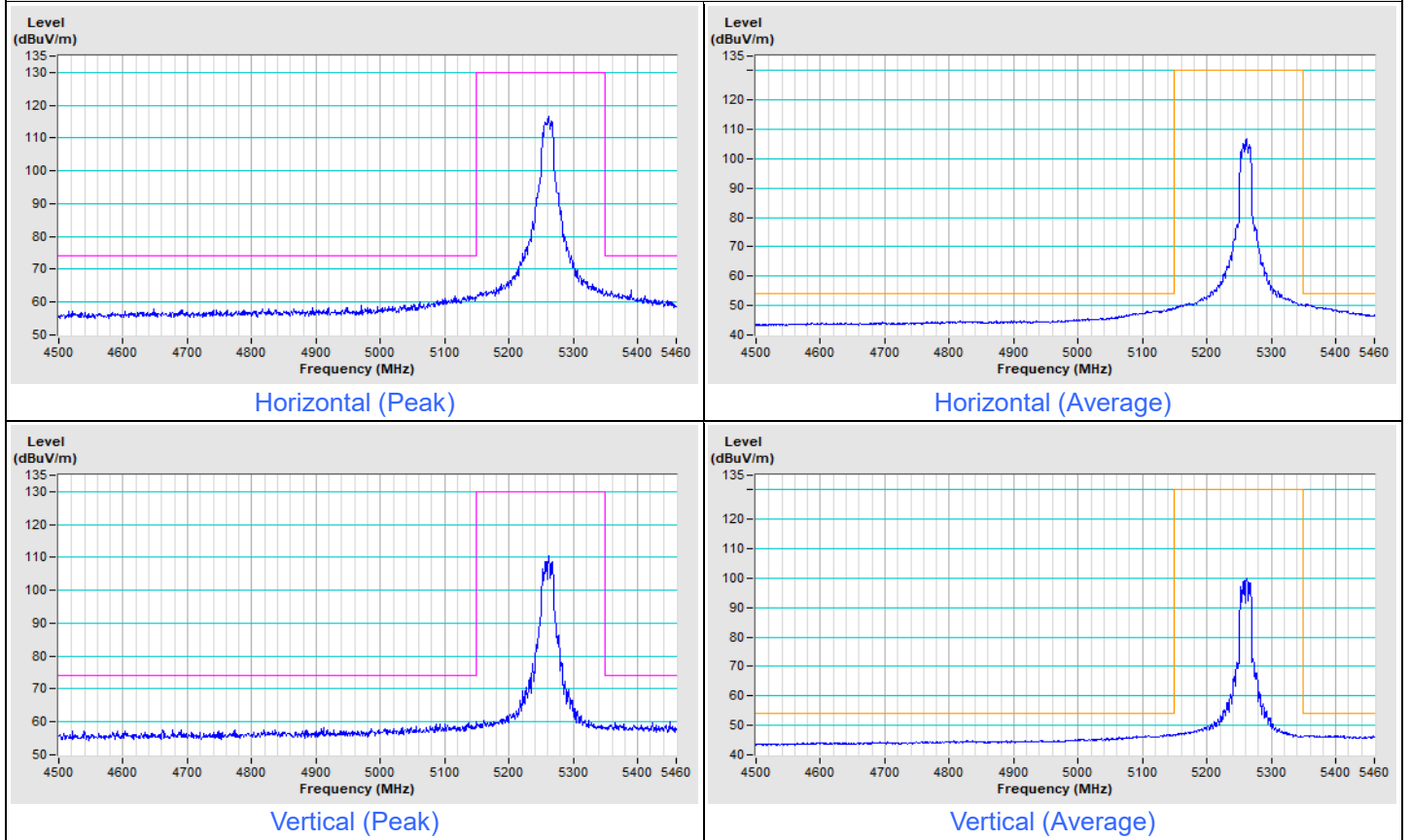
Vertical (Peak)



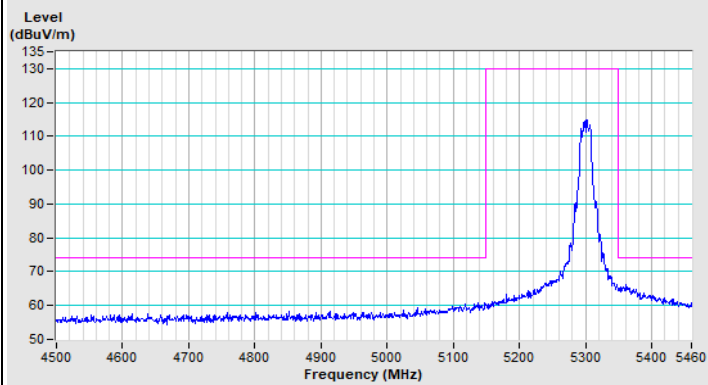
Vertical (Average)

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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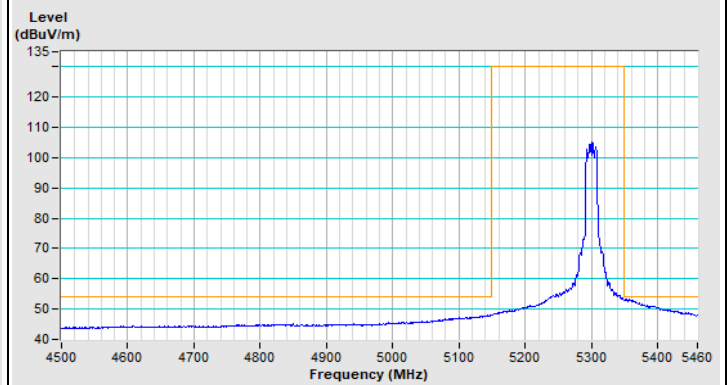
802.11a Channel 52



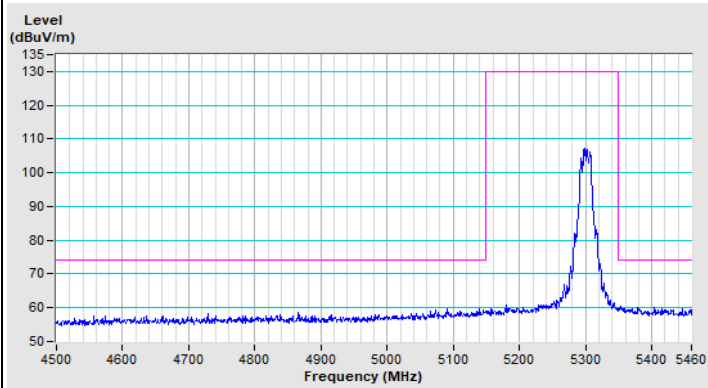
802.11a Channel 60



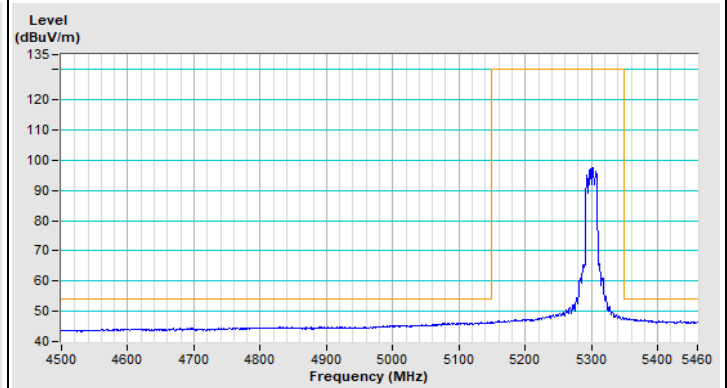
Horizontal (Peak)



Horizontal (Average)

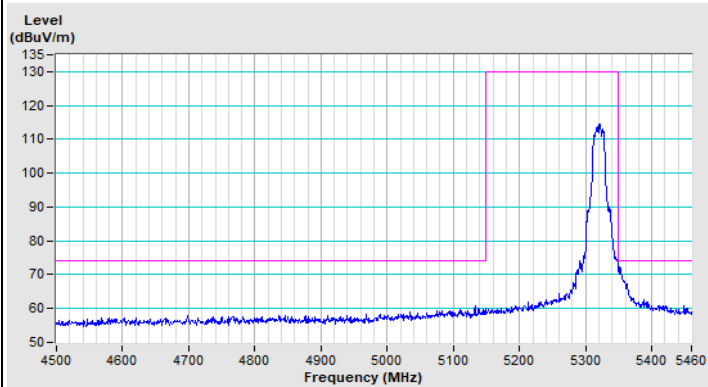


Vertical (Peak)

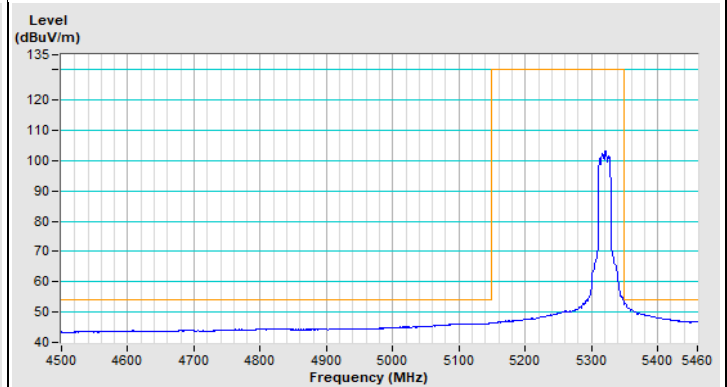


Vertical (Average)

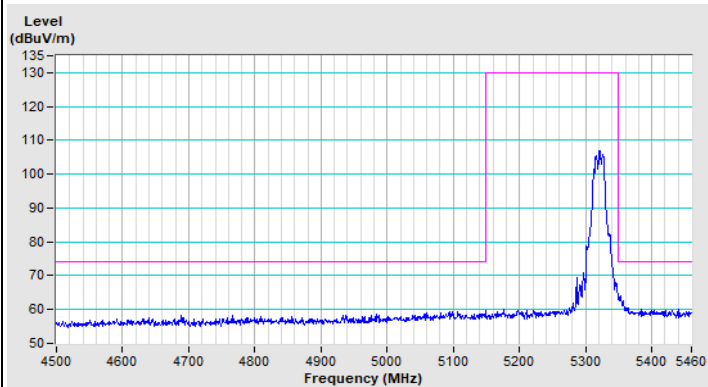
802.11a Channel 64



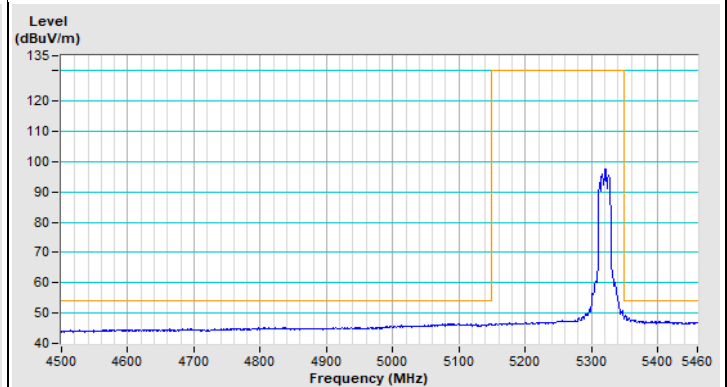
Horizontal (Peak)



Horizontal (Average)



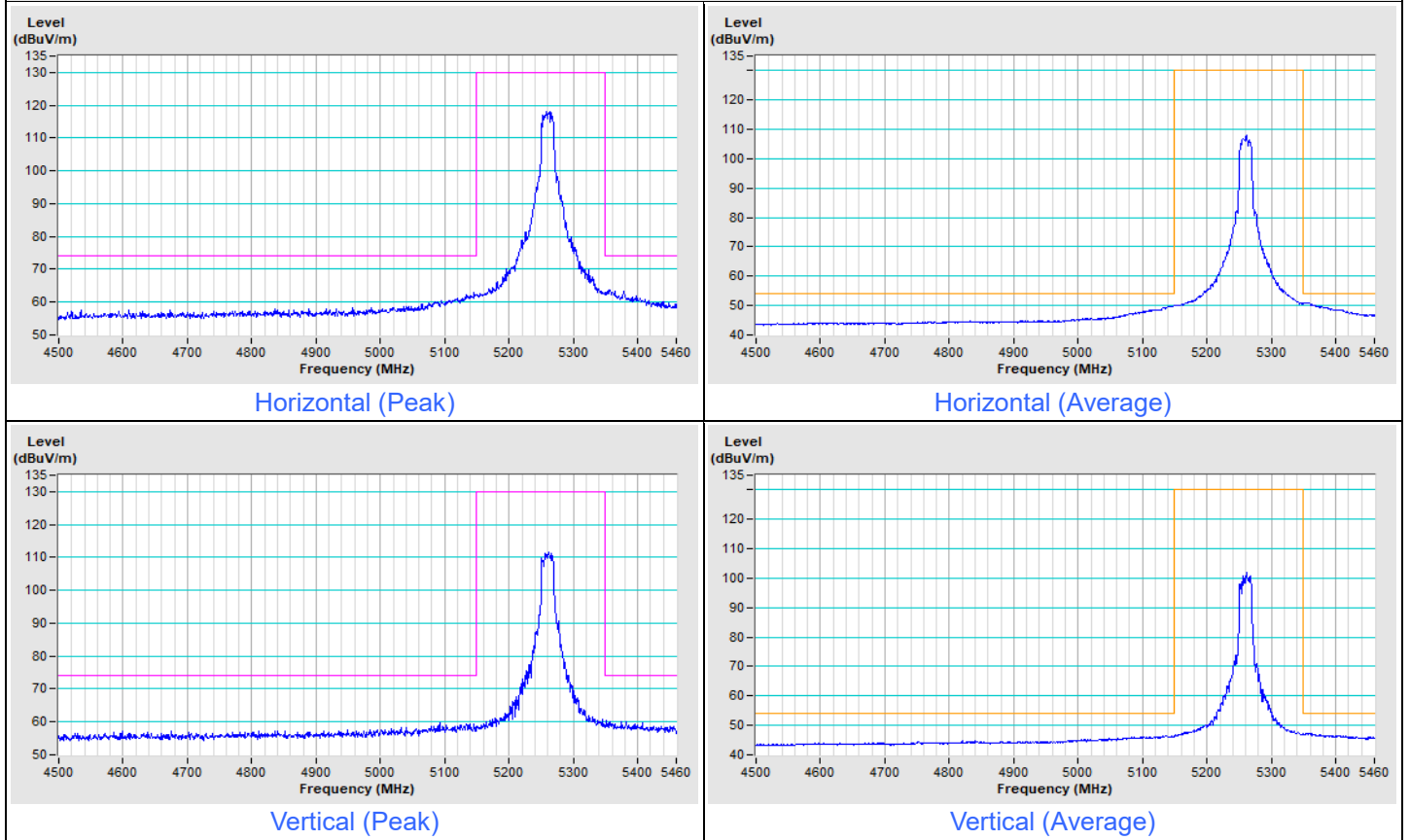
Vertical (Peak)



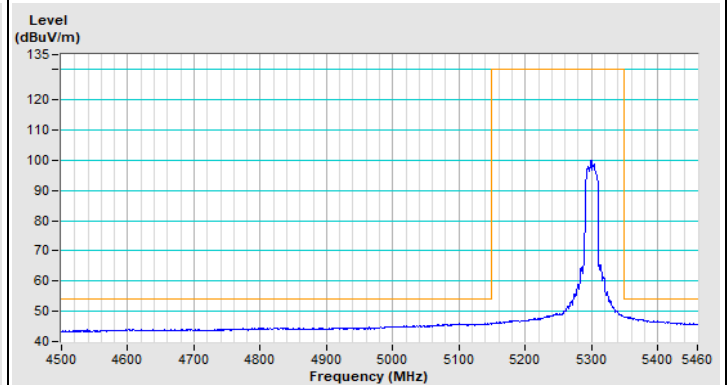
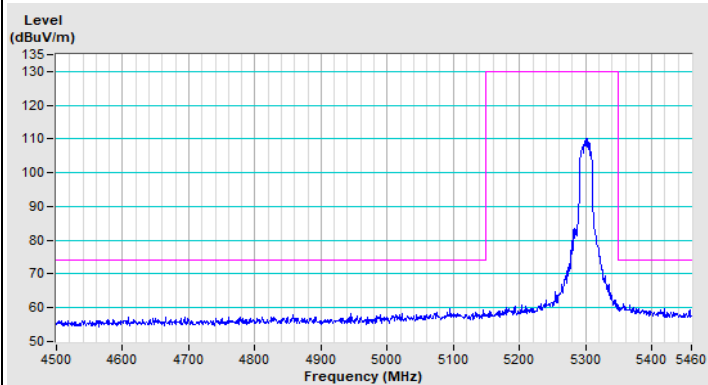
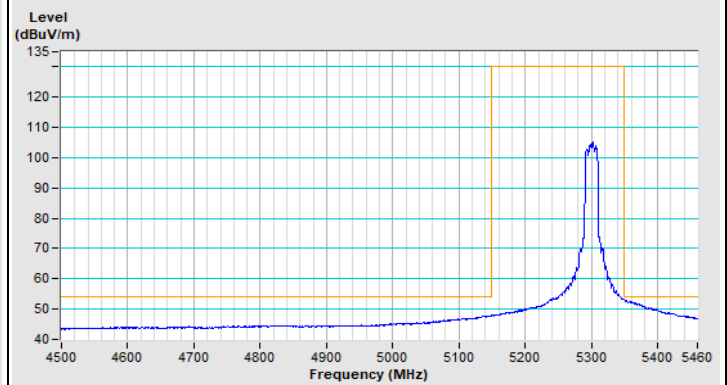
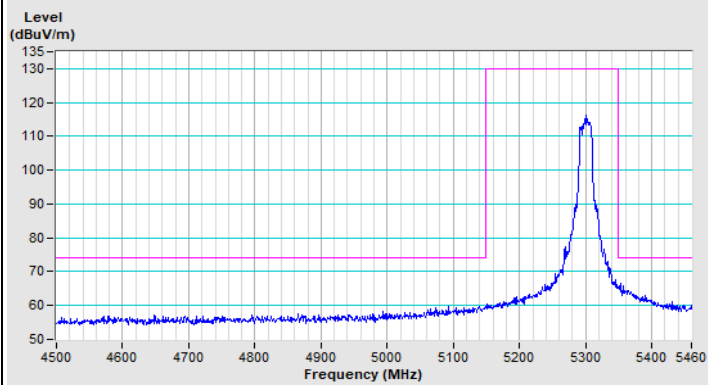
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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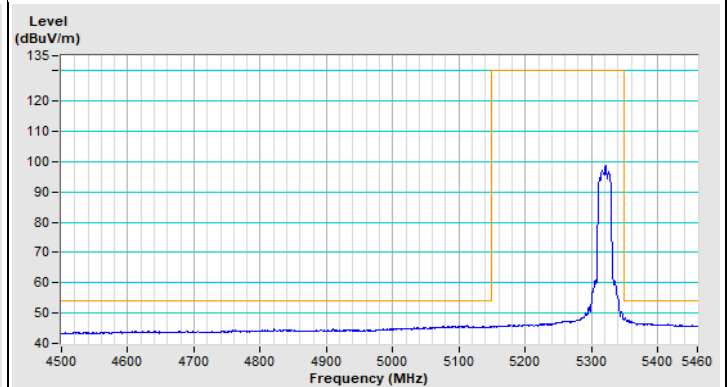
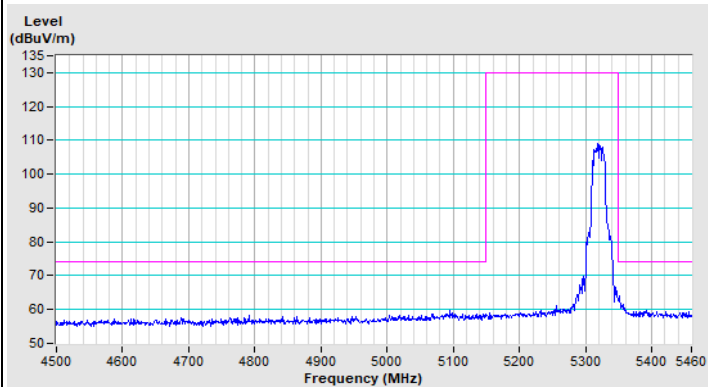
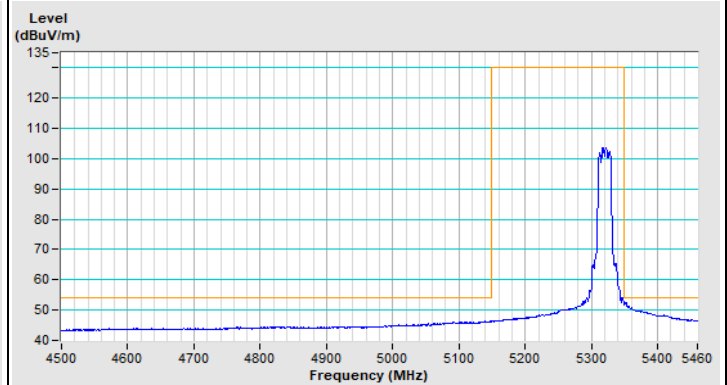
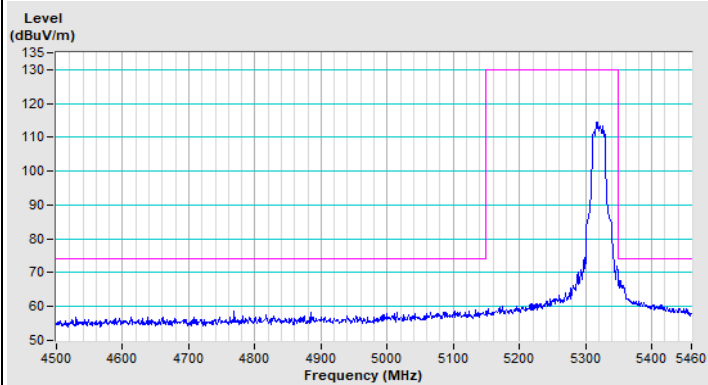
802.11ax (HE20) Channel 52



802.11ax (HE20) Channel 60

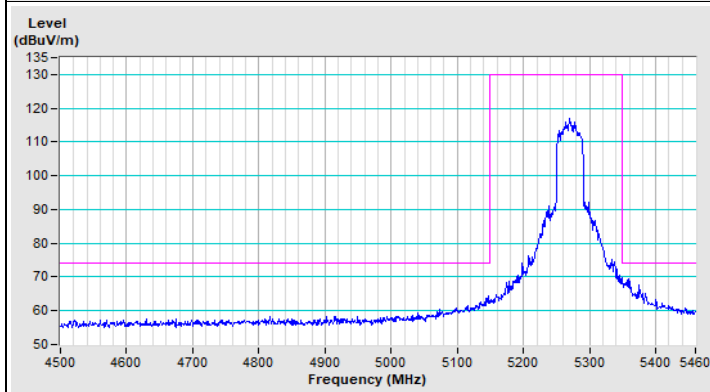


802.11ax (HE20) Channel 64

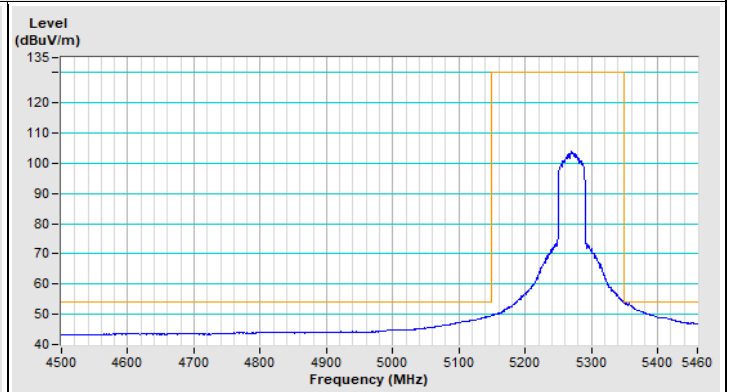


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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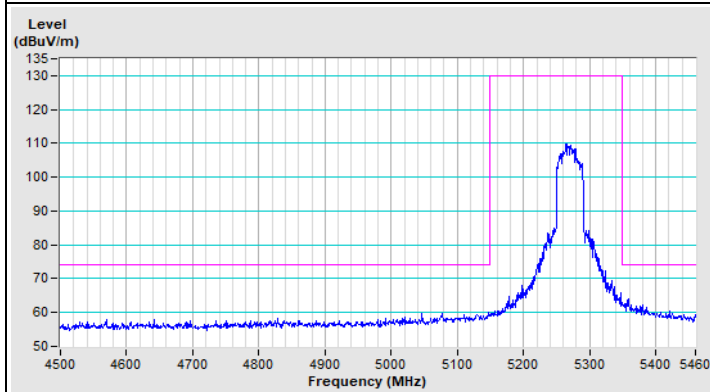
802.11ax (HE40) Channel 54



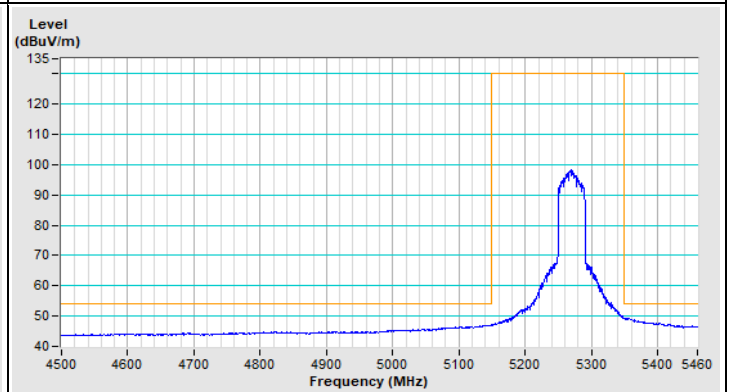
Horizontal (Peak)



Horizontal (Average)

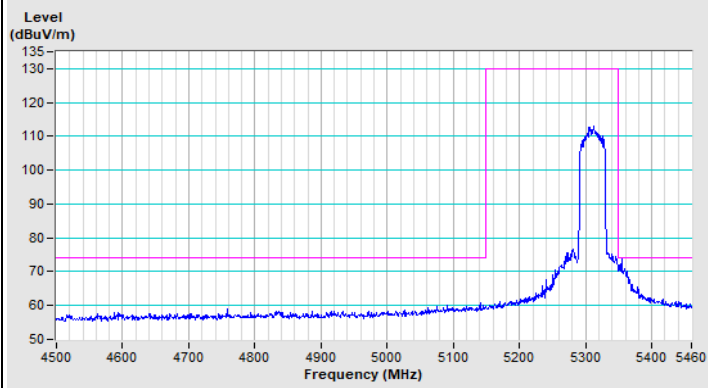


Vertical (Peak)

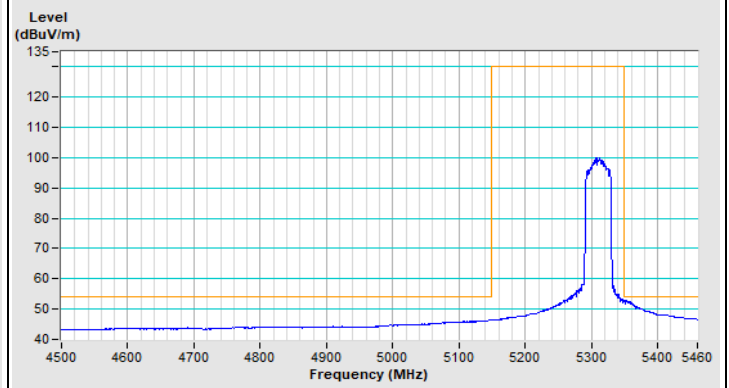


Vertical (Average)

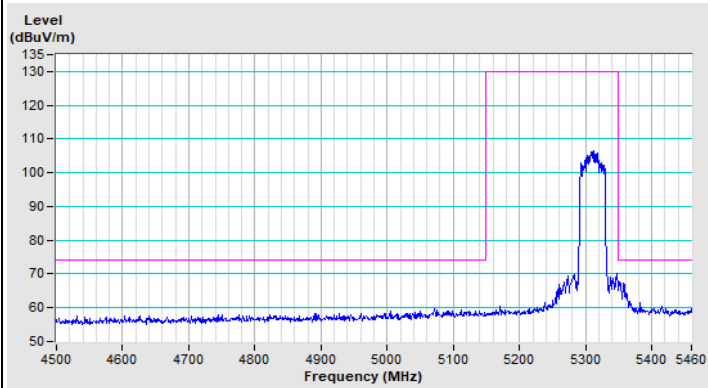
802.11ax (HE40) Channel 62



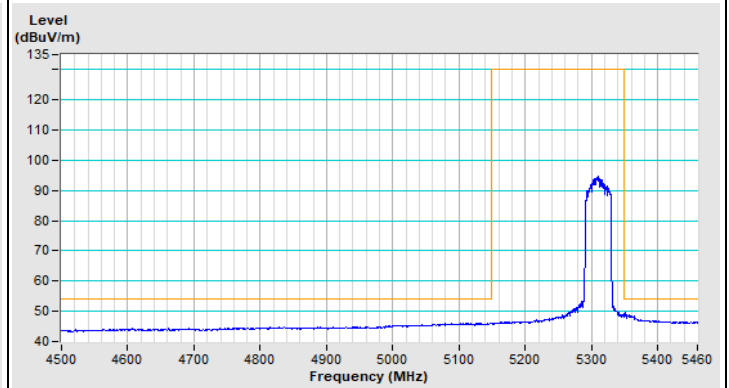
Horizontal (Peak)



Horizontal (Average)



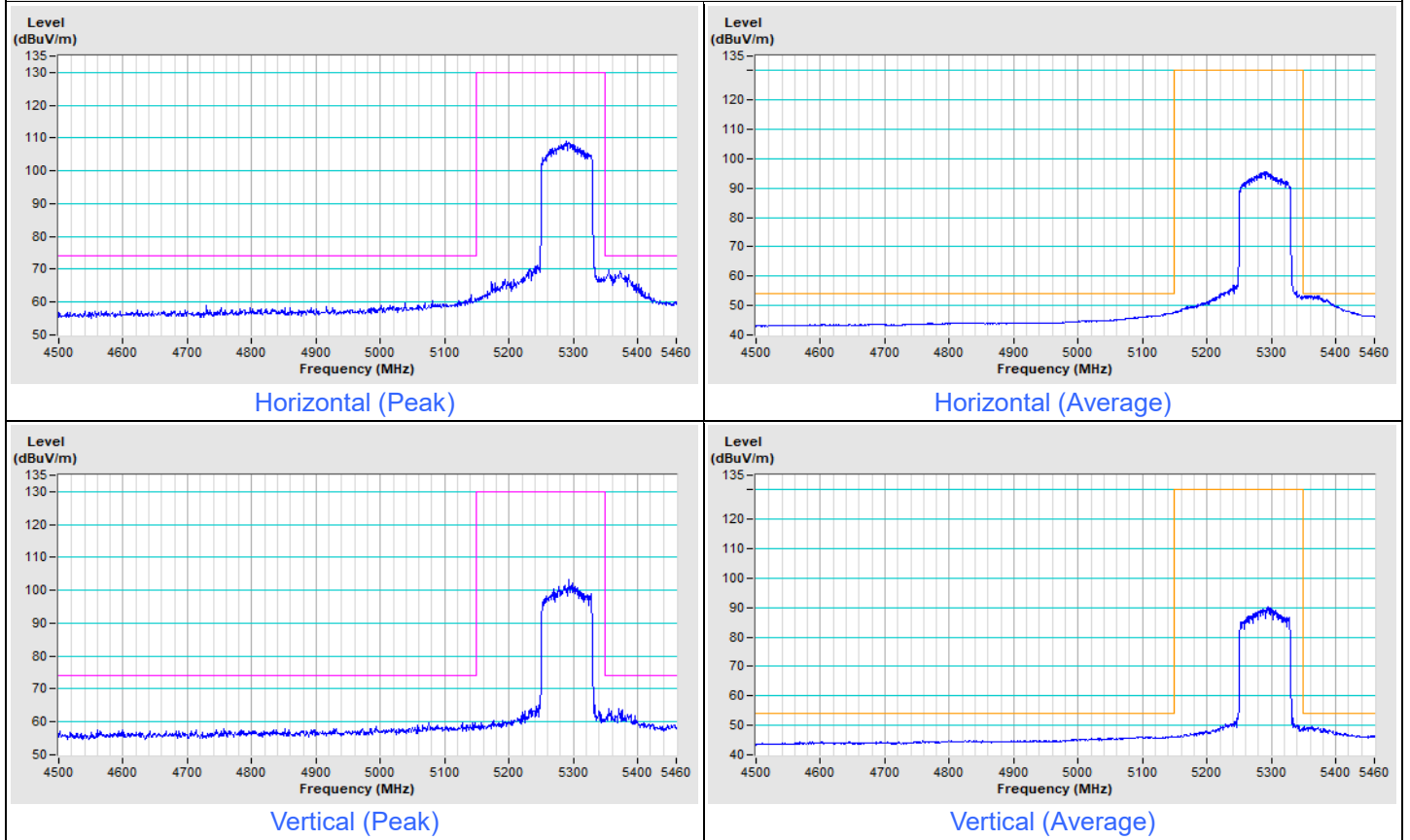
Vertical (Peak)



Vertical (Average)

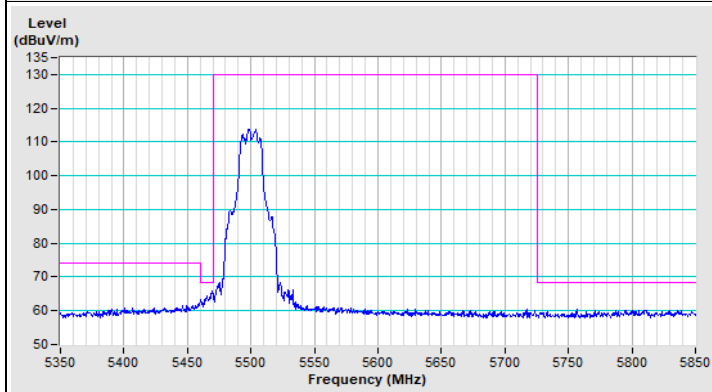
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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802.11ax (HE80) Channel 58

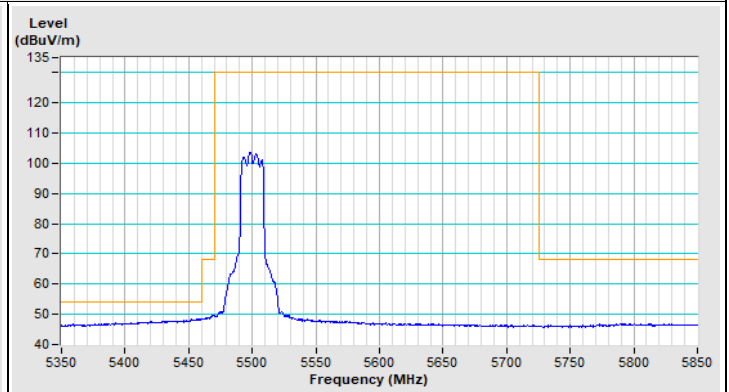


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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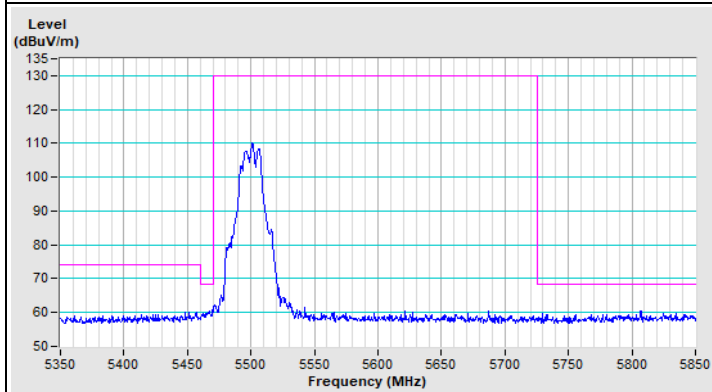
802.11a Channel 100



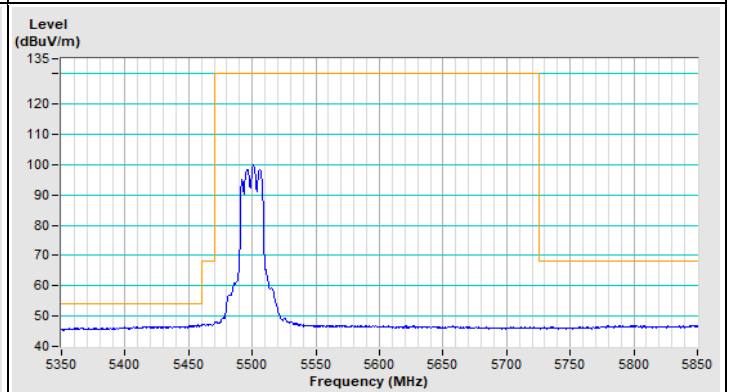
Horizontal (Peak)



Horizontal (Average)

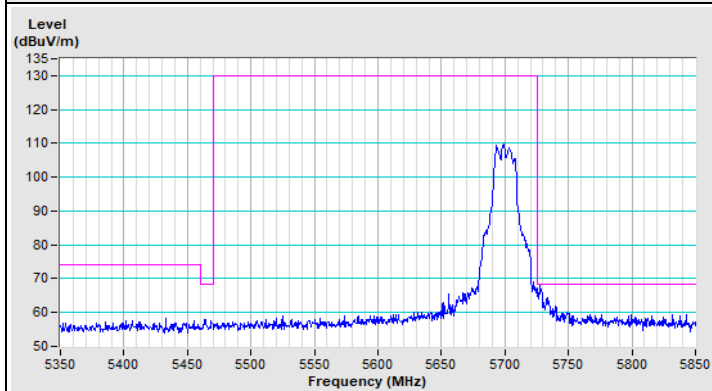


Vertical (Peak)

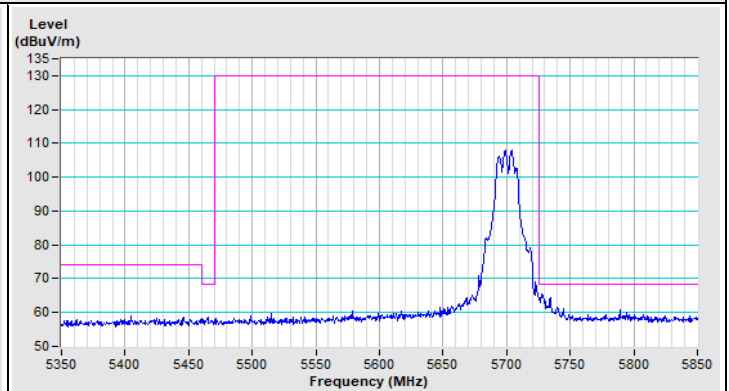


Vertical (Average)

802.11a Channel 140



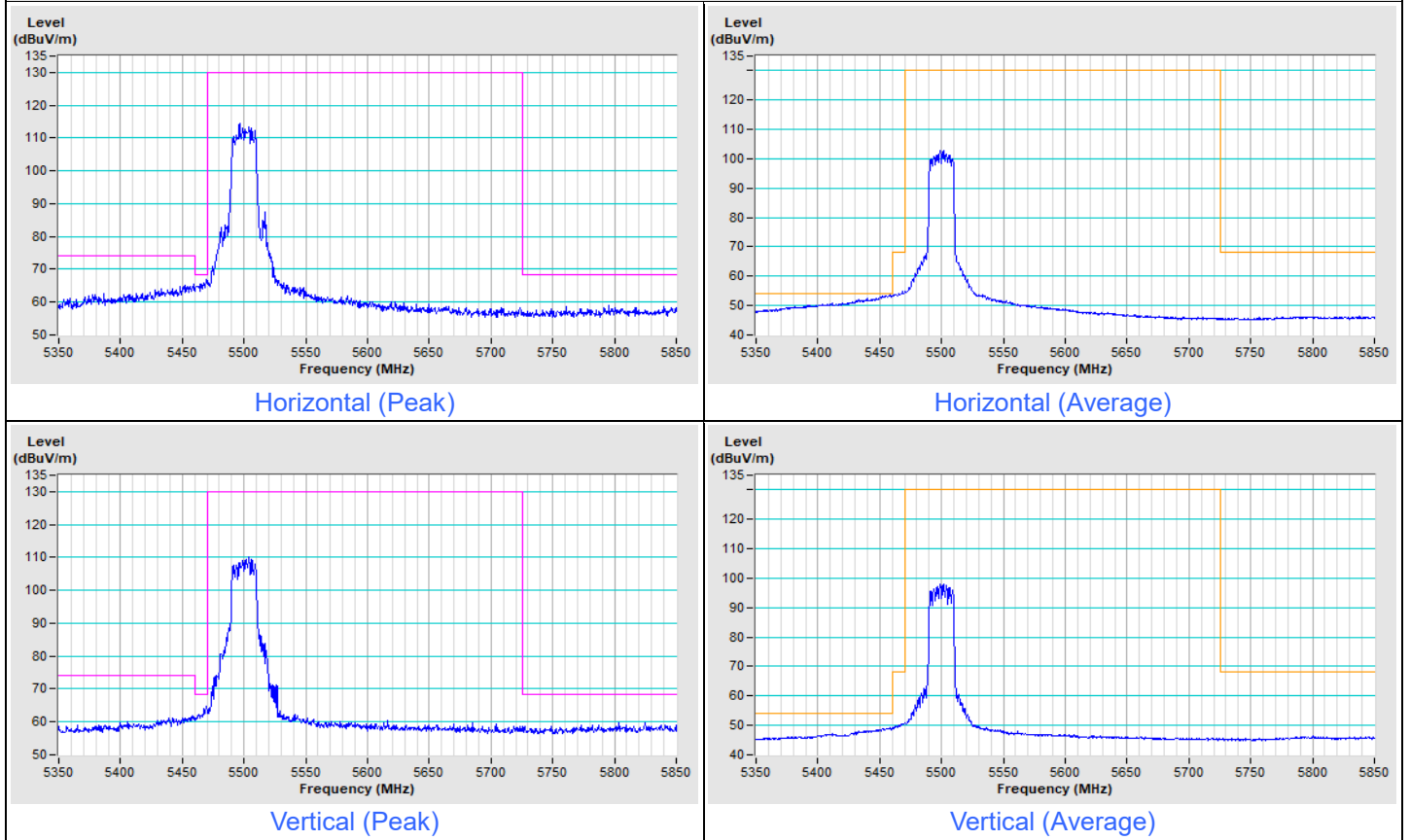
Horizontal (Peak)



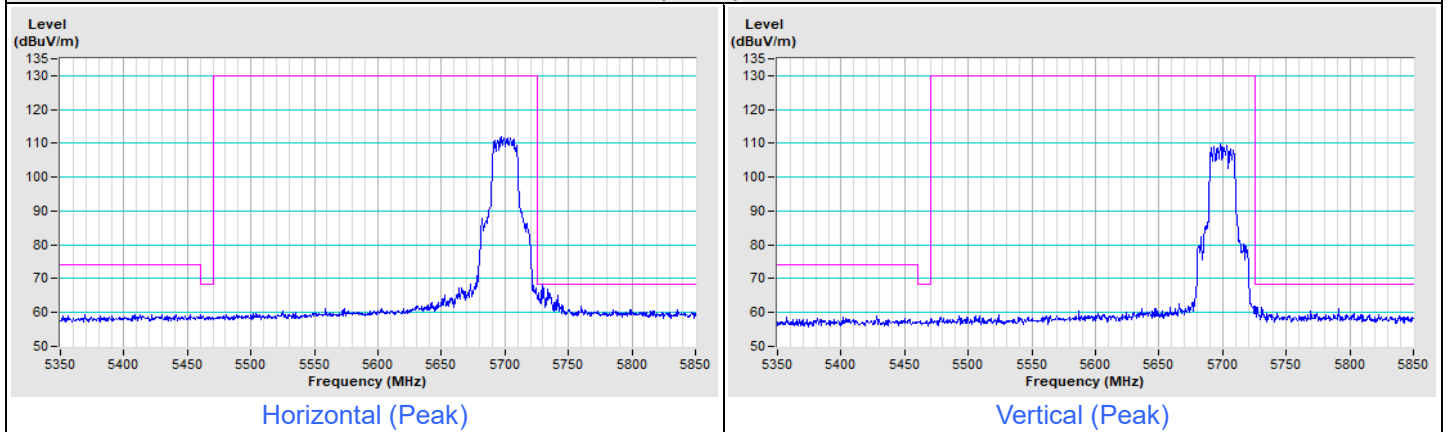
Vertical (Peak)

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=1 kHz, DET=Peak
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802.11ax (HE20) Channel 100

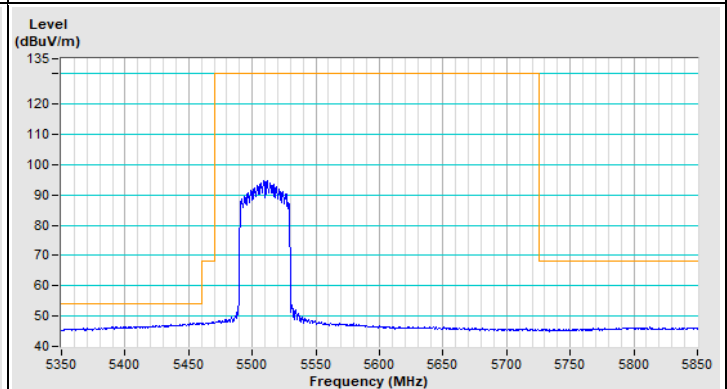
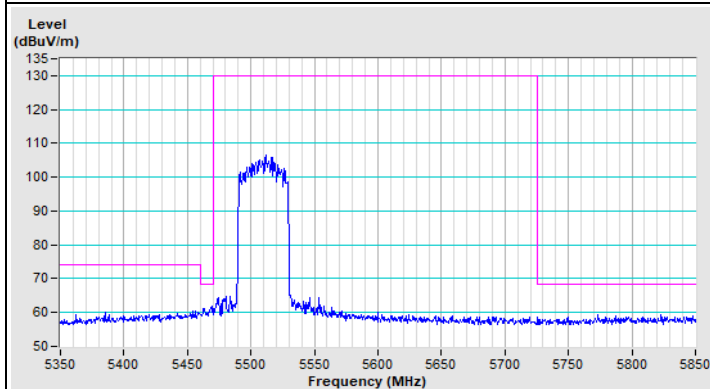
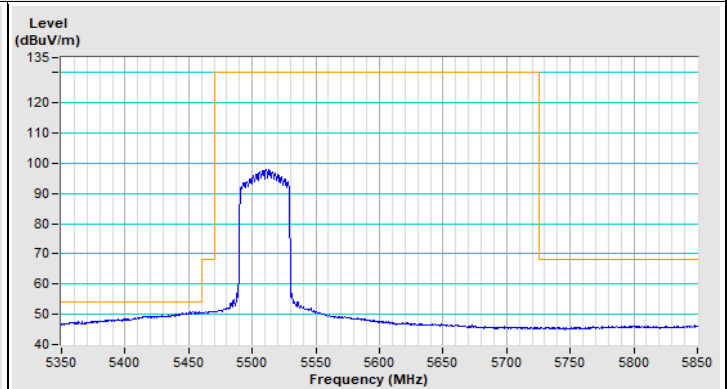
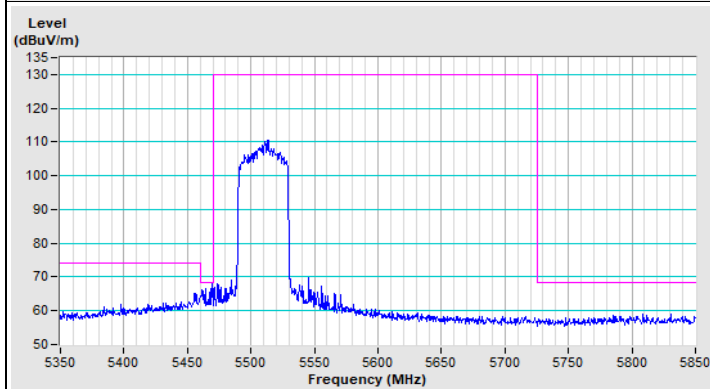


802.11ax (HE20) Channel 140

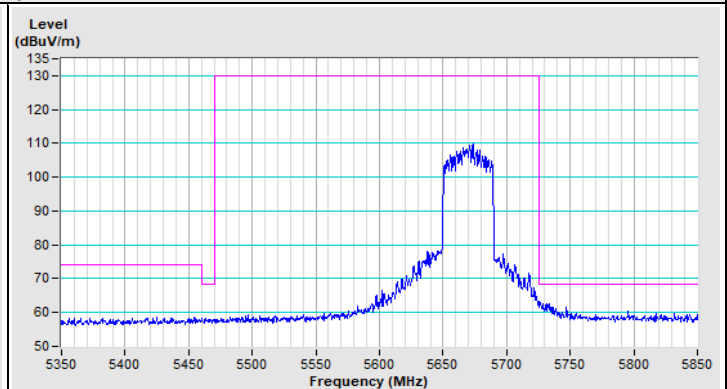
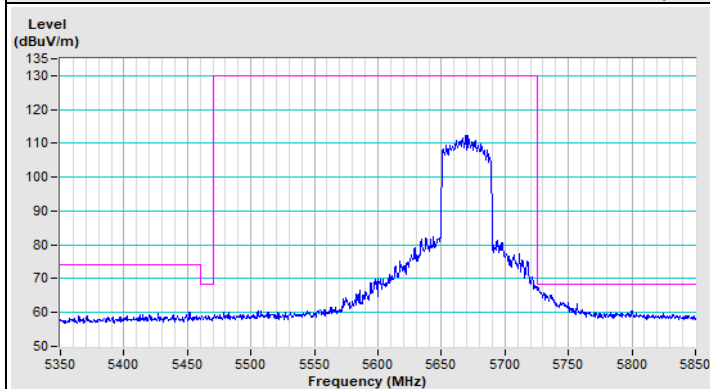


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE40) Channel 102

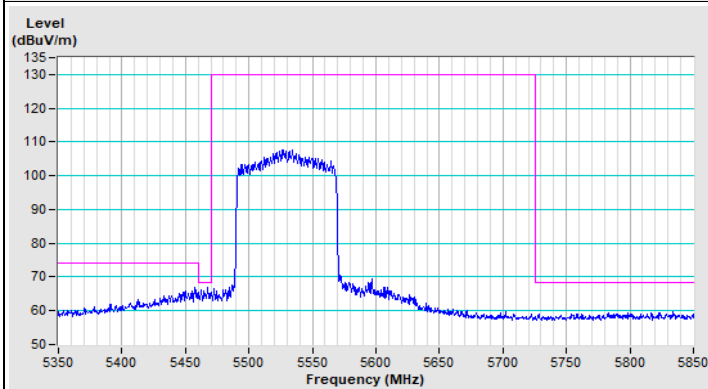


802.11ax (HE40) Channel 134

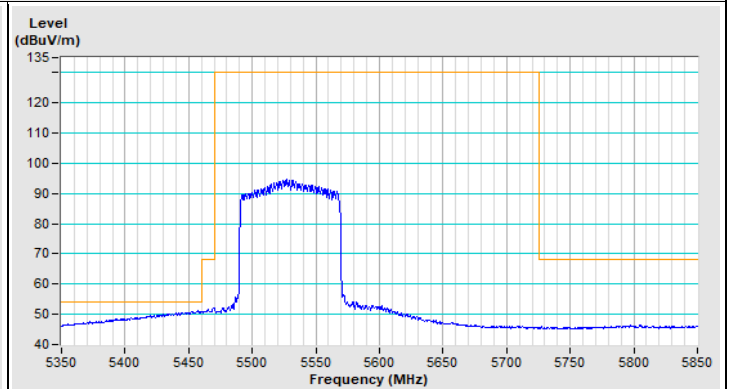


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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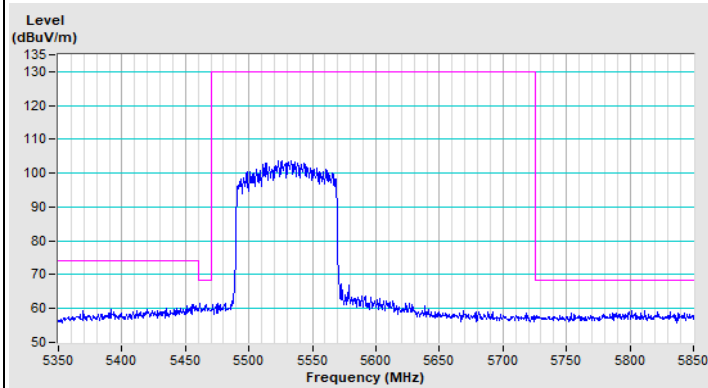
802.11ax (HE80) Channel 106



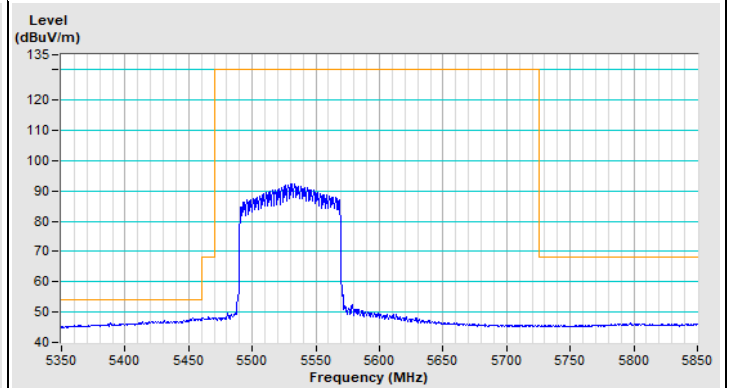
Horizontal (Peak)



Horizontal (Average)

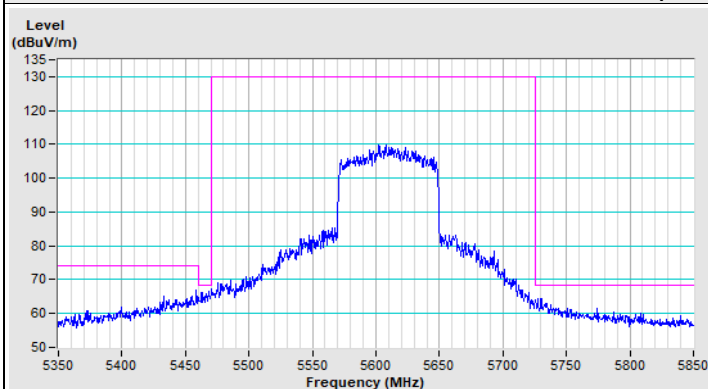


Vertical (Peak)

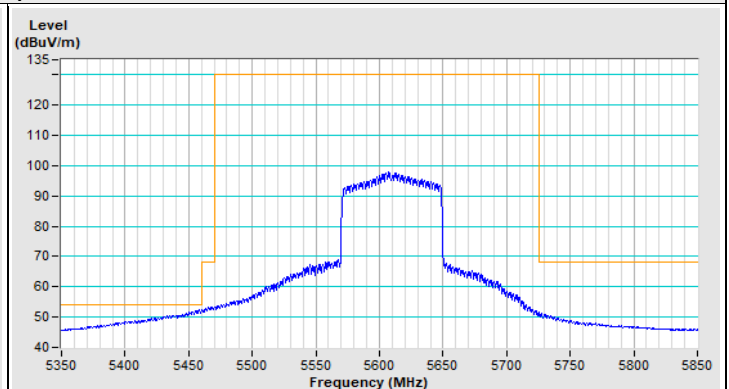


Vertical (Average)

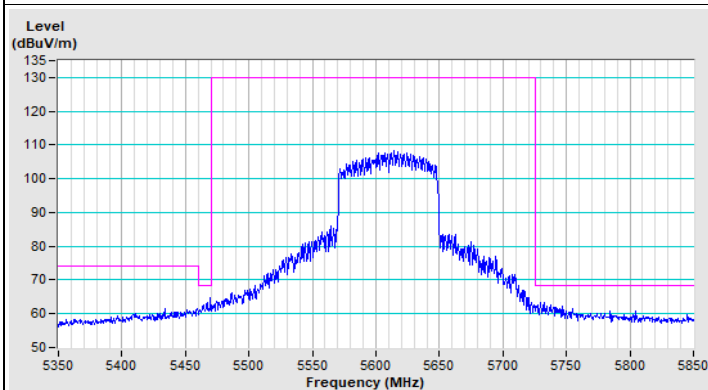
802.11ax (HE80) Channel 122



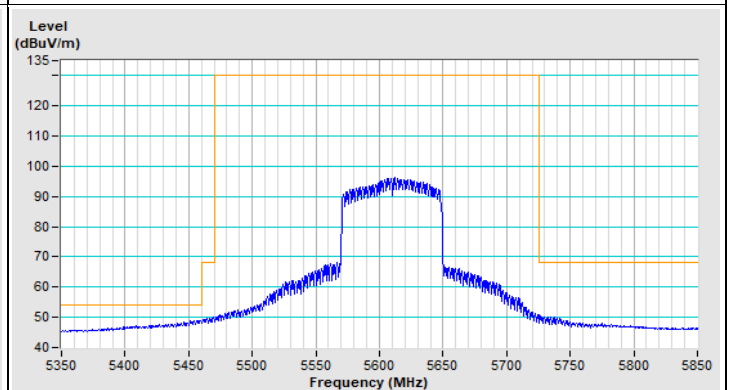
Horizontal (Peak)



Horizontal (Average)



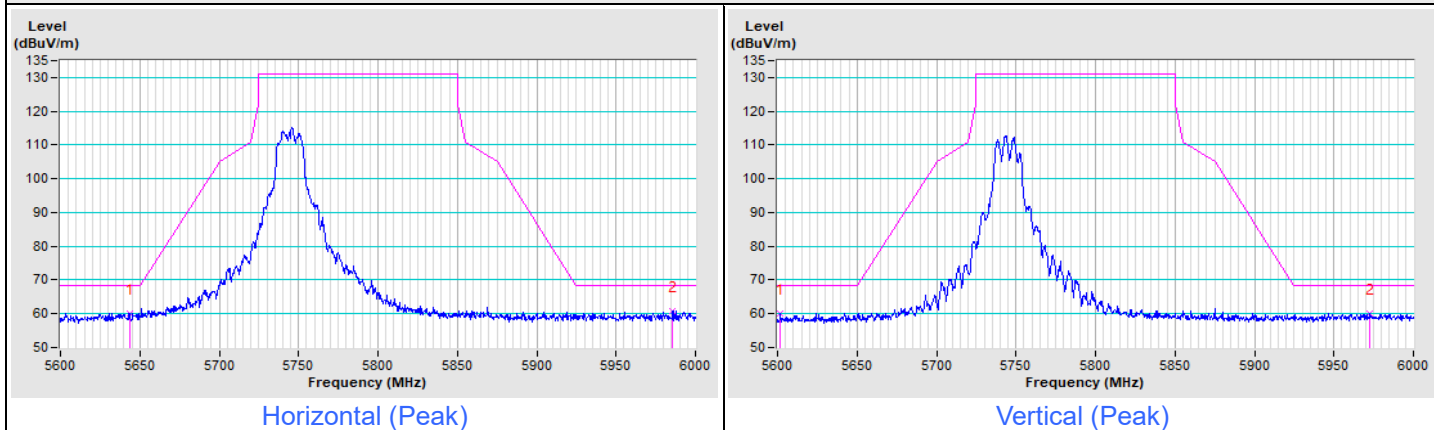
Vertical (Peak)



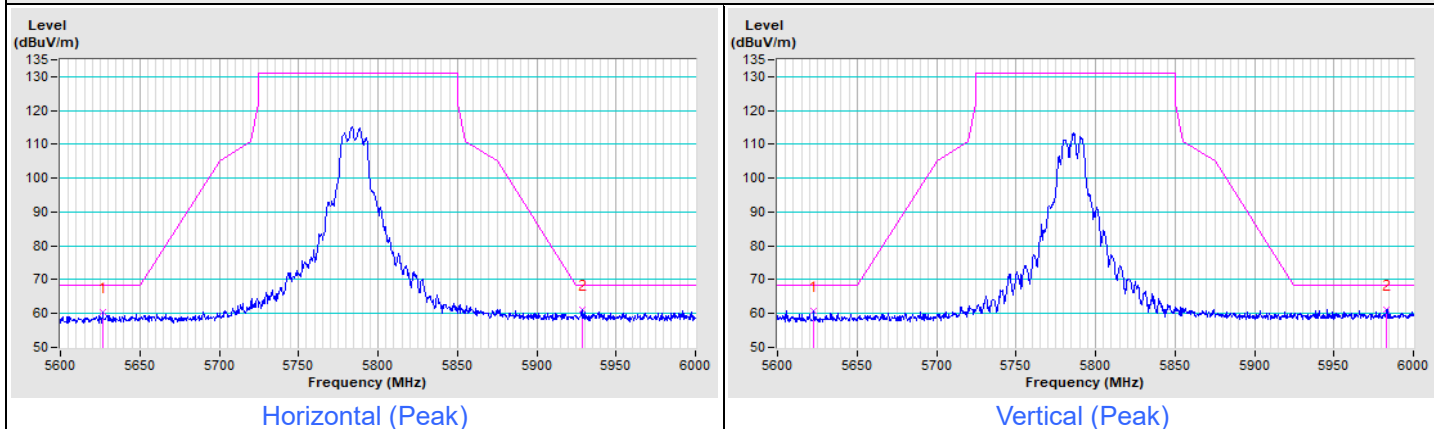
Vertical (Average)

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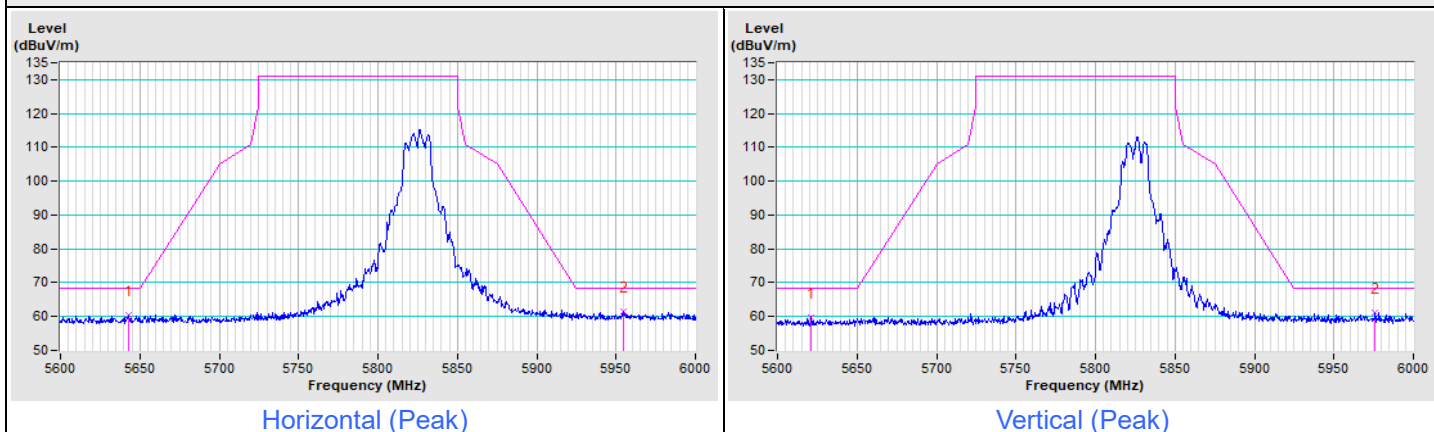
802.11a Channel 149



802.11a Channel 157

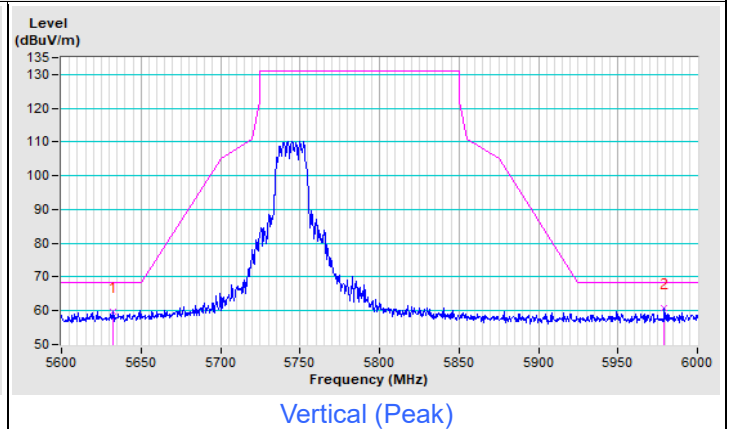
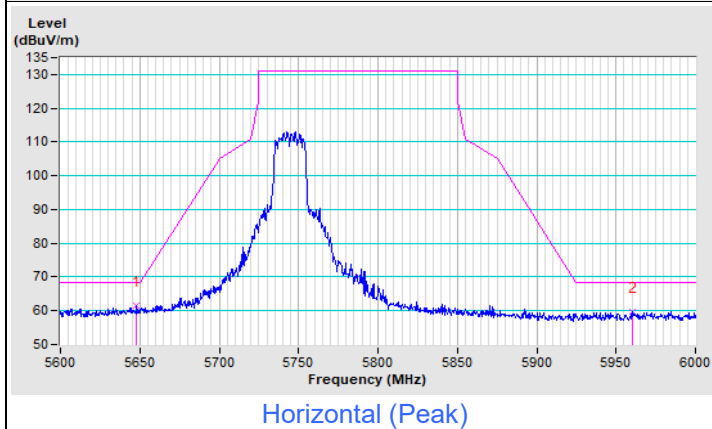


802.11a Channel 165

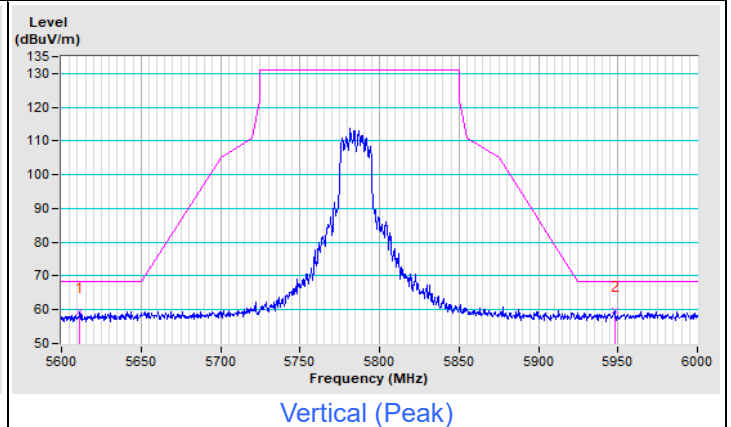
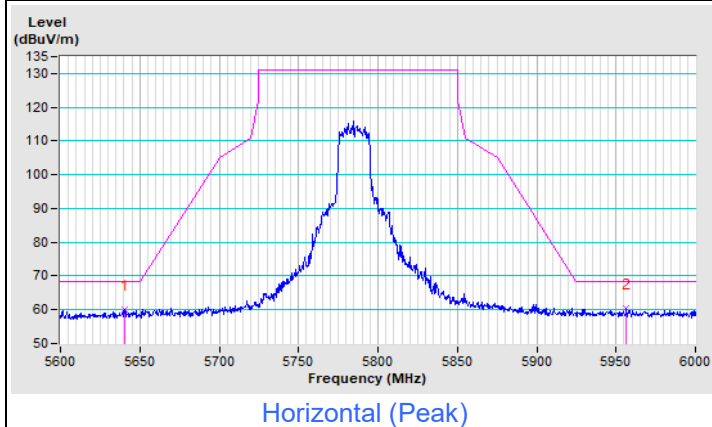


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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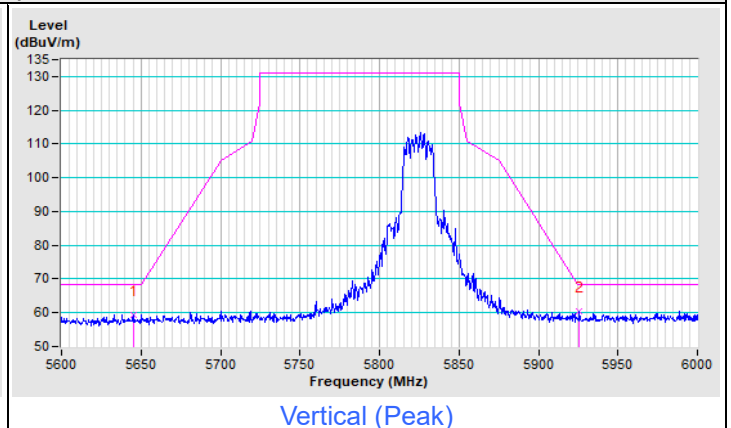
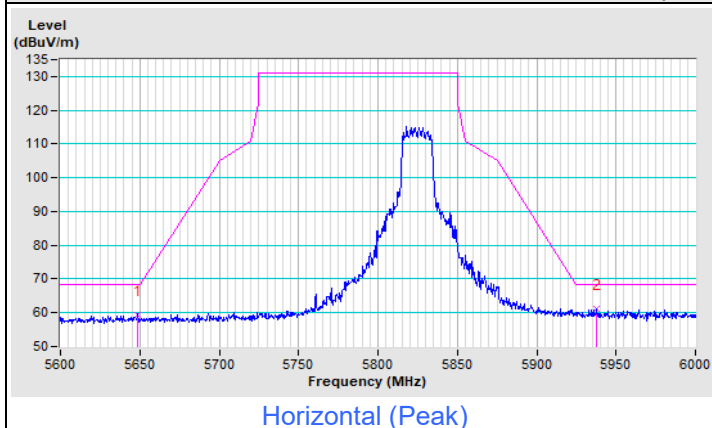
802.11ax (HE20) Channel 149



802.11ax (HE20) Channel 157

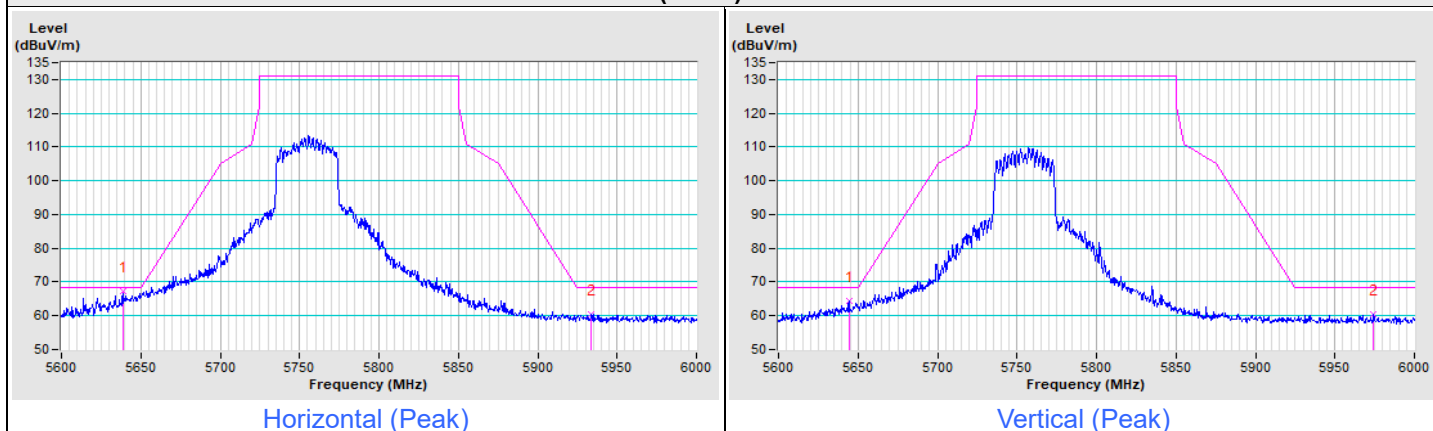


802.11ax (HE20) Channel 165

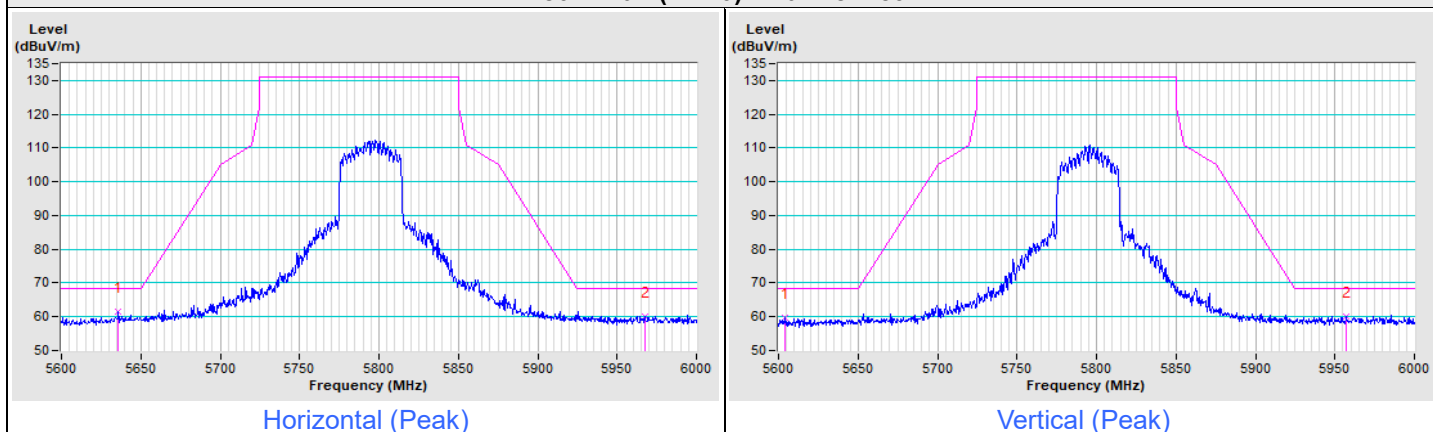


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE40) Channel 151

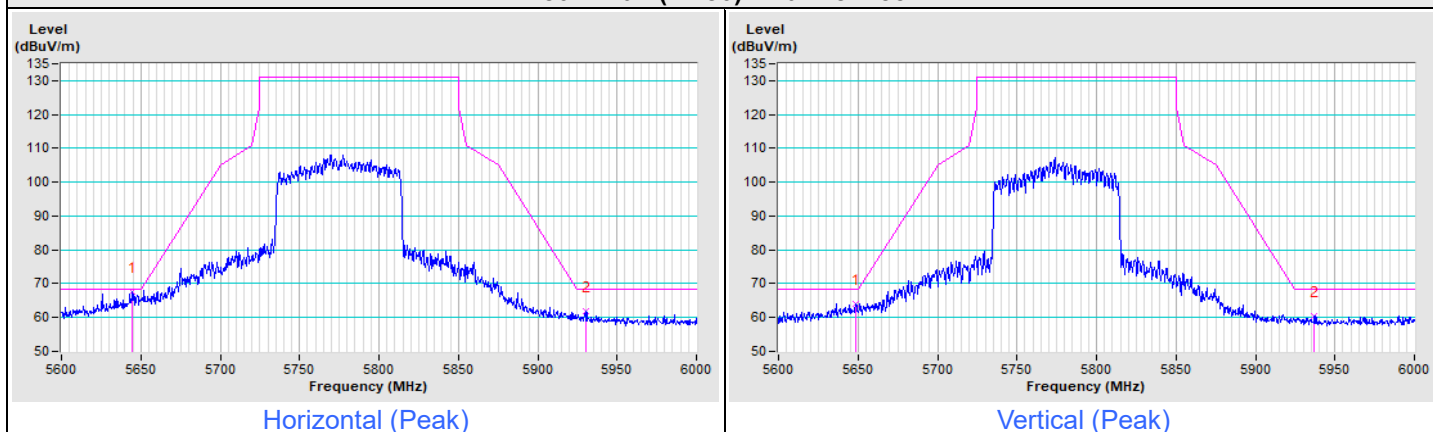


802.11ax (HE40) Channel 159



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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