

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFCJWN-WTW-P26060605-2

FCC ID: 2AEUP-5CFYBB

Product: Security Camera

Brand: ring

Model No.: 5CFYBB

Received Date: 2026/6/26

Test Date: 2026/6/27 ~ 2026/8/14

Issued Date: 2026/9/18

Applicant: Ring LLC

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Test Location(2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan

FCC Registration / 788550 / TW0003 for Test Location(1)

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

Approved by:

Jeremy Lin

Jeremy Lin / Project Engineer

Date:

2026/9/18

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Prepared by : Celia Chen / Supervisor



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Release Control Record

Issue No.	Description	Date Issued
RFCJWN-WTW-P26060605-2	Original release.	2026/9/18

1 Certificate

Product: Security Camera

Brand: ring

Test Model: 5CFYBB

Sample Status: Engineering sample

Applicant: Ring LLC

Test Date: 2026/6/27 ~ 2026/8/14

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

Measurement procedure: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024
KDB 789033 D02 General UNII Test Procedure New Rules v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(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 -28.10 dB at 0.54200 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -7.4 dB at 902.03 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 -3.1 dB at 5460.00 MHz & 5470.00 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

Notes:

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

2.1 Measurement Uncertainty

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

Parameter	Specification	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	3.23 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	Security Camera
Brand	ring
Test Model	5CFYBB
Status of EUT	Engineering sample
Power Supply Rating	5Vdc/2.5A & battery 3.6Vdc
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 143.4 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz, 5.26 GHz ~ 5.32 GHz, 5.5 GHz ~ 5.72 GHz, 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):25
Partial RU Mode	Single RU
Channel Puncturing	Not support
Output Power	5.18 GHz ~ 5.24 GHz: 51.88 mW (17.15 dBm) 5.26 GHz ~ 5.32 GHz: 48.306 mW (16.84 dBm) 5.5 GHz ~ 5.72 GHz: 42.855 mW (16.32 dBm) 5.745 GHz ~ 5.825 GHz: 45.499 mW (16.58 dBm)
EUT Category	Client device

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
Power Adapter	ring	6PCEAB	AC Input: 100-240Vac, 0.5A, 50/60Hz DC Output: 5.0Vdc, 2.5A, 12.5W AC Input Cable: Non-shielded 2-pin cable (2.3m) DC Output Cable: Shielded USB-C cable (3.0m)
Rechargeable Lithium-ion Battery	ring	6BCEAB	3.60Vdc, 9400mAh, 33.84Wh / Input: 5Vdc, 3A
Rechargeable Lithium-ion Battery	ring	5AT3S3	3.6Vdc, 5960mAh, 21.456Wh / Micro USB Input: 5Vdc, 800mA
Rechargeable Lithium-ion Battery	ring	5F53E9	3.6Vdc, 5800mAh, 20.88Wh / Micro USB Input: 5Vdc, 1A

- There are Bluetooth and WLAN (2.4 GHz & 5 GHz) and 60 GHz radar technologies used for the EUT.
- Bluetooth and WLAN (2.4 GHz & 5 GHz) and 60 GHz radar technologies cannot operate simultaneously.
- The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.
- The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Gain (dBi)	Frequency Range	Antenna Type	Connector Type
3.2	2.4~2.4835 GHz	PIFA	NA
4	5 GHz		
3	60~61 GHz		

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

2. The EUT incorporates a SISO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	1TX	1RX
802.11n (HT20)	1TX	1RX
802.11ac (VHT20)	1TX	1RX
802.11ax (HE20)	1TX	1RX
802.11ax (RU26/52/106/242)	1TX	1RX

Note: After investigation, 802.11ax mode 20 MHz represents the worst mode in the report since the power setting is the same or higher than 802.11n mode 20 MHz and 802.11ac mode 20 MHz, and the modulation type and bandwidth are all similar.

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

FOR 5500 ~ 5720 MHz

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

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

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		

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis / Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. The worst-case Partial RU modes have been determined via pre-scan. 3. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.
Worst Case:	1. Worst Condition: Y-axis. 2. The worst case occurs in 20 MHz bandwidth (RU 26/52/106).

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

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
26 dB Bandwidth	802.11a	52, 60, 64, 100, 120, 140, 144	BPSK	6Mb/s	NA
	802.11ax (HE20)	52, 60, 64, 100, 120, 140, 144	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	52, 60, 64, 100, 120, 140, 144	BPSK	MCS0	0, 0, 8, 0, 8, 8, 8
	802.11ax (HE20) 52-tone RU	52, 60, 64, 100, 120, 140, 144	BPSK	MCS0	37, 37, 40, 37, 37, 40, 40
	802.11ax (HE20) 106-tone RU	52, 60, 64, 100, 120, 140, 144	BPSK	MCS0	53, 53, 54, 53, 53, 54, 54
RF Output Power	802.11a	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	6Mb/s	NA
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0	0, 0, 8, 0, 0, 8, 0, 8, 8, 8, 0, 0, 8
	802.11ax (HE20) 52-tone RU	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0	37, 37, 40, 37, 37, 40, 37, 37, 40, 40, 37, 37, 40
	802.11ax (HE20) 106-tone RU	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0	53, 53, 54, 53, 53, 54, 53, 53, 54, 54, 53, 53, 54
Power Spectral Density	802.11a	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	6Mb/s	NA
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0	0, 0, 8, 0, 0, 8, 0, 8, 8, 8, 0, 0, 8
	802.11ax (HE20) 52-tone RU	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0	37, 37, 40, 37, 37, 40, 37, 37, 40, 40, 37, 37, 40
	802.11ax (HE20) 106-tone RU	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0	53, 53, 54, 53, 53, 54, 53, 53, 54, 54, 53, 53, 54
6 dB Bandwidth	802.11a	144, 149, 157, 165	BPSK	6Mb/s	NA
	802.11ax (HE20)	144, 149, 157, 165	BPSK	MCS0	NA

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
	802.11ax (HE20) 26-tone RU	144, 149, 157, 165	BPSK	MCS0	8, 0, 0, 8
	802.11ax (HE20) 52-tone RU	144, 149, 157, 165	BPSK	MCS0	40, 37, 37, 40
	802.11ax (HE20) 106-tone RU	144, 149, 157, 165	BPSK	MCS0	54, 53, 53, 54
Occupied Bandwidth	802.11a	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	6Mb/s	NA
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0	0, 0, 8, 0, 0, 8, 0, 8, 8, 8, 0, 0, 8
	802.11ax (HE20) 52-tone RU	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0	37, 37, 40, 37, 37, 40, 37, 37, 40, 40, 37, 37, 40
	802.11ax (HE20) 106-tone RU	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0	53, 53, 54, 53, 53, 54, 53, 53, 54, 54, 53, 53, 54
AC Power Conducted Emissions	802.11ax (HE20)	40	BPSK	MCS0	NA
Unwanted Emissions below 1 GHz	802.11ax (HE20)	40	BPSK	MCS0	NA
Unwanted Emissions above 1 GHz	802.11a	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	6Mb/s	NA
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0	NA

3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = $0.133 \text{ ms} / 0.152 \text{ ms} \times 100\% = 87.5\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.58 \text{ dB}$

802.11ax (HE20): Duty cycle = $0.309 \text{ ms} / 0.331 \text{ ms} \times 100\% = 93.4\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.30 \text{ dB}$

802.11ax (HE20) 26-tone RU: Duty cycle = $5.355 \text{ ms} / 6.33 \text{ ms} \times 100\% = 84.6\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.73 \text{ dB}$

802.11ax (HE20) 52-tone RU: Duty cycle = $2.71 \text{ ms} / 3.69 \text{ ms} \times 100\% = 73.4\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 1.34 \text{ dB}$

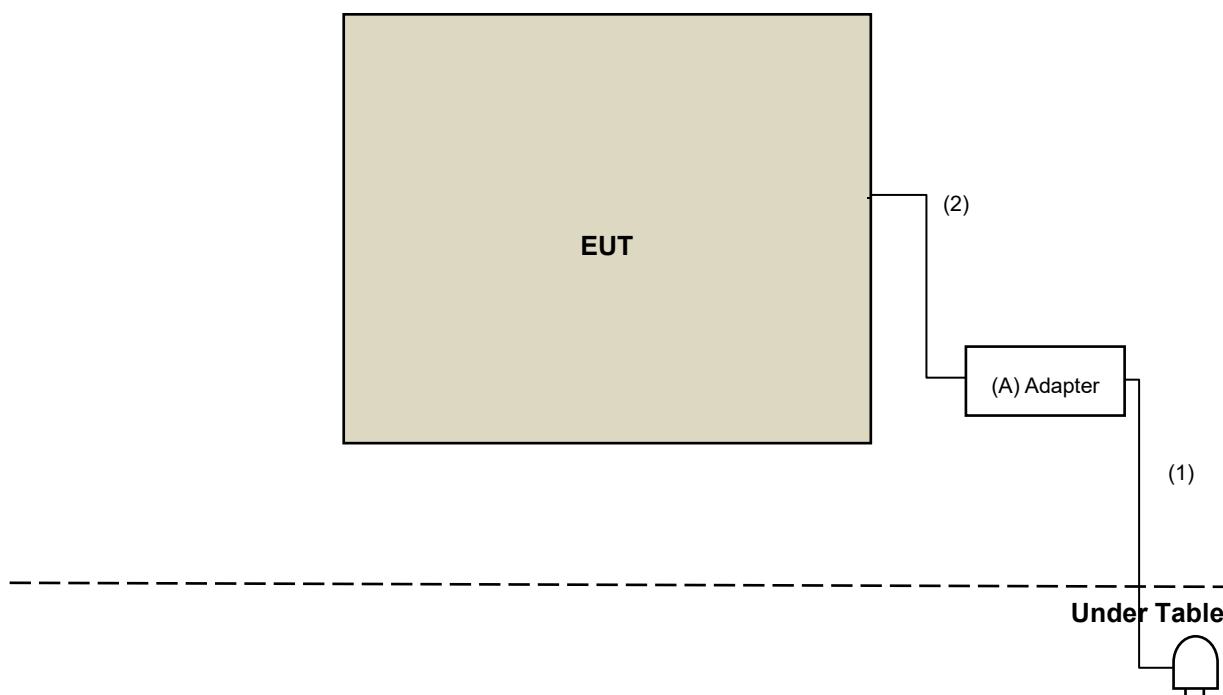
802.11ax (HE20) 106-tone RU: Duty cycle = $1.32 \text{ ms} / 2.3 \text{ ms} \times 100\% = 57.4\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 2.41 \text{ dB}$



3.6 Test Program Used and Operation Descriptions

Controlling software Tera Term_Ver 4.106 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	Ring	6PCEAB	GP43WG0452520 8MM	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	AC input Cable	1	2.3	No	0	Supplied by applicant
2	DC Output Cable(USB Type C)	1	3	Yes	0	Supplied by applicant

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSU43	101261	2026/5/4	2027/5/3

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/7/2 ~ 2026/8/14

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
Peak Power Analyzer Keysight	8990B	MY51000485	2026/1/23	2027/1/22
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSU43	101261	2026/5/4	2027/5/3
USB Power Sensor Anritsu	MA24408A	12994	2025/12/5	2026/12/4
Wideband Power Sensor Keysight	N1923A	MY58020002	2026/1/26	2027/1/25
		MY58140009	2026/1/26	2027/1/25

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/7/2 ~ 2026/8/14

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	2025/12/4	2026/12/3
	E1-011280	05	2025/12/4	2026/12/3
	E1-011311	09	2025/12/4	2026/12/3
DC LISN Schwarzbeck	NNBM 8126G	8126G-069	2025/11/3	2026/11/2
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01445	2026/4/18	2027/4/17
EMI Test Receiver R&S	ESCI	100613	2025/11/27	2026/11/26
Extension Power Line EMCI	EMCI-EXP-EU-US	023	2026/3/6	2027/3/5
LISN R&S	ENV216	101826	2026/3/6	2027/3/5
	ESH3-Z5	100311	2025/8/28	2026/8/27
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2026/1/3	2027/1/2
Software BVADT	BVADT_Conf_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2025/8/27	2026/8/26

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2026/7/28

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1213	2025/9/18	2026/9/17
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
MXE EMI Receiver Keysight	N9038B	MY60180019	2026/1/14	2027/1/13
Preamplifier EMCI	EMC330N	980782	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201233	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-3000	201235	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-9000	201236(with PAD)	2026/1/13	2027/1/12
Signal & Spectrum Analyzer R&S	FSW43	101867	2026/2/11	2027/2/10
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8(Wenming).
2. Tested Date: 2026/8/4

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210103A18E	2025/11/9	2026/11/8
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2025/11/9	2026/11/8
MXE EMI Receiver Keysight	N9038B	MY60180019	2026/1/14	2027/1/13
Preamplifier EMCI	EMC118A45SE	980808	2025/12/24	2026/12/23
	EMC184045SE	980788	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2026/1/13	2027/1/12
		201255	2026/1/13	2027/1/12
	EMC101G-KM-KM-5000	201261	2026/1/13	2027/1/12
	EMC104-SM-SM-1000	210102	2026/1/13	2027/1/12
	EMC104-SM-SM-3000	201231	2026/1/13	2027/1/12
	EMC104-SM-SM-9000	201243	2026/1/13	2027/1/12
Signal & Spectrum Analyzer R&S	FSW43	101867	2026/2/11	2027/2/10
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8(Wenming).
2. Tested Date: 2026/6/27 ~ 2026/8/4

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

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: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2 (dBμV/m) ^{*1} PK: 105.2 (dBμV/m) ^{*2} PK: 110.8 (dBμV/m) ^{*3} PK: 122.2 (dBμV/m) ^{*4}

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

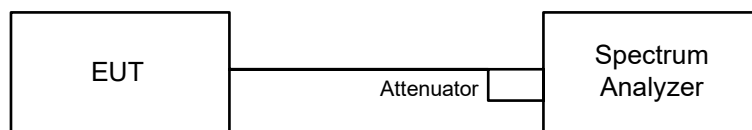
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup



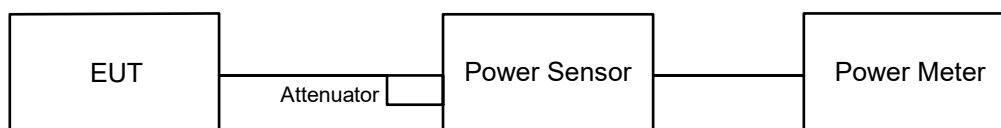
Note: The correction factor has already been compensated by the instrument.

6.1.2 Test Procedure

- Set RBW = shall be in the range of 1% to 5% 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 instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

6.2 RF Output Power

6.2.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

For channel straddling:



Note: The correction factor has already been compensated by the instrument.

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.

For channel straddling:

Method SA-2

- a. Measure the duty cycle of the transmitter output signal.
- b. Set span to encompass the entire 99% OBW of the signal.
- c. Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- d. Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- e. Sweep time = auto, trigger set to "free run".
- f. Detector = Power averaging (rms), if available. Otherwise, use sample detector mode.
- g. Do not use sweep triggering. Allow the sweep to "free run."
- h. Trace average at least 100 traces in power averaging mode.
- i. Compute power by integrating the spectrum across the 99% OBW of the signal using the instrument's band-power measurement function with band limits set equal to the EBW or OBW band-edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 99% OBW of the spectrum.
- j. Record the max value and add $10 \log (1/\text{duty cycle})$.

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

For channel straddling:

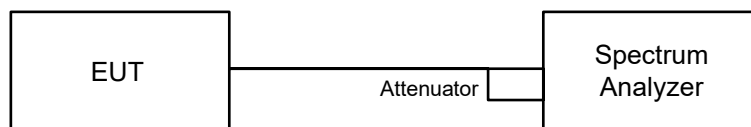
Method SA-2A

- a. Measure the duty cycle of the transmitter output signal.
- b. Set span to encompass the entire 99% OBW of the signal.
- c. Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS.
- d. Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- e. Manually set sweep time $\geq [10 \times (\text{number of points in sweep}) \times (\text{total ON/OFF period of the transmitted signal})]$.
- f. Perform a single sweep.
- g. Compute power by integrating the spectrum across the 99% OBW of the signal using the instrument's band-power measurement function with band limits set equal to the OBW band-edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 99% OBW of the spectrum.
- h. Record the max value and add $10 \log (1/\text{duty cycle})$.

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

6.3 Power Spectral Density

6.3.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-2

- Measure the duty cycle of the transmitter output signal.
- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

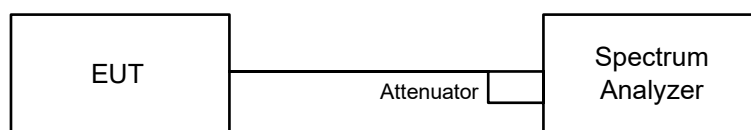
For specified measurement bandwidth 500 kHz:

Method SA-2

- Measure the duty cycle of the transmitter output signal.
- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS.
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$.
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

6.4 6 dB Bandwidth

6.4.1 Test Setup



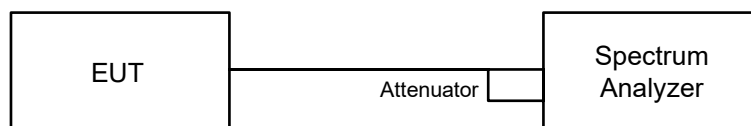
Note: The correction factor has already been compensated by the instrument.

6.4.2 Test Procedure

- Set RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) 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



Note: The correction factor has already been compensated by the instrument.

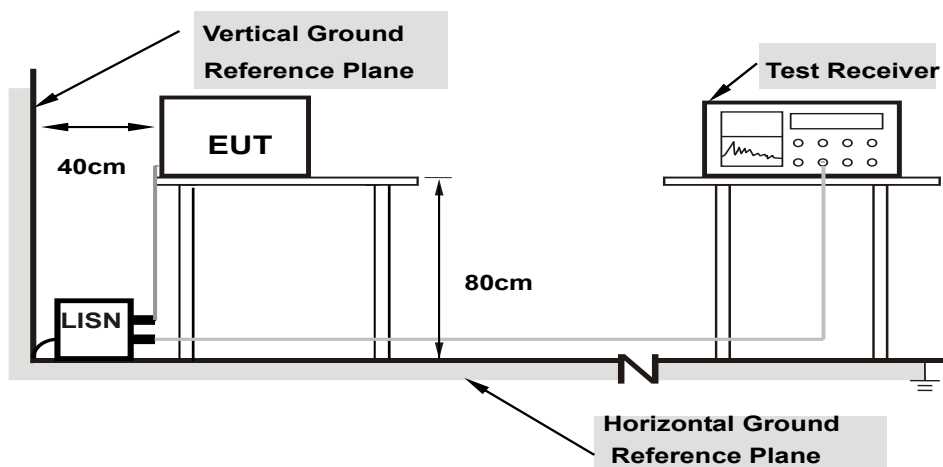
6.5.2 Test Procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, without going below the values in section 6.9.1 of ANSI C63.10a-2024 and video bandwidth (VBW) shall be at least three times RBW, unless otherwise specified by the applicable requirement.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level.
- Step a) through step c) might require iteration to adjust within the specified range.
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

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

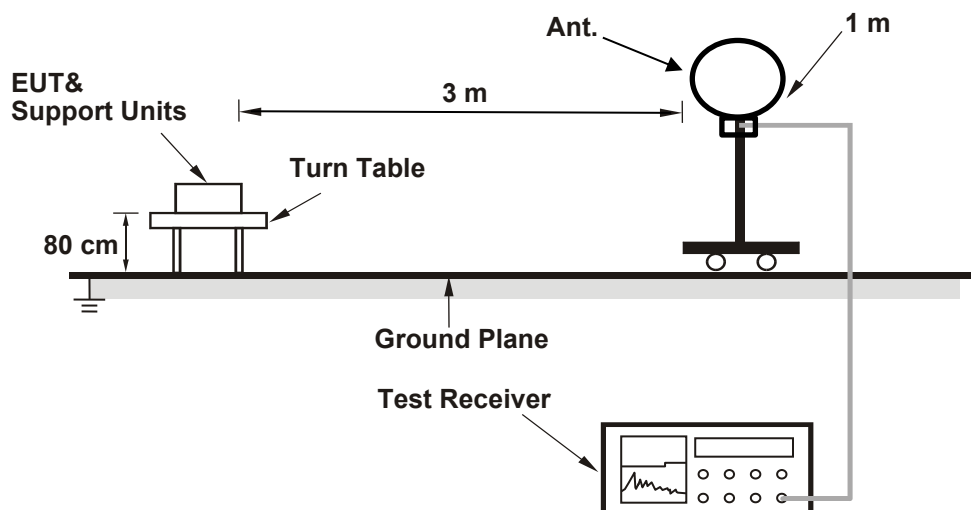
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The 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.

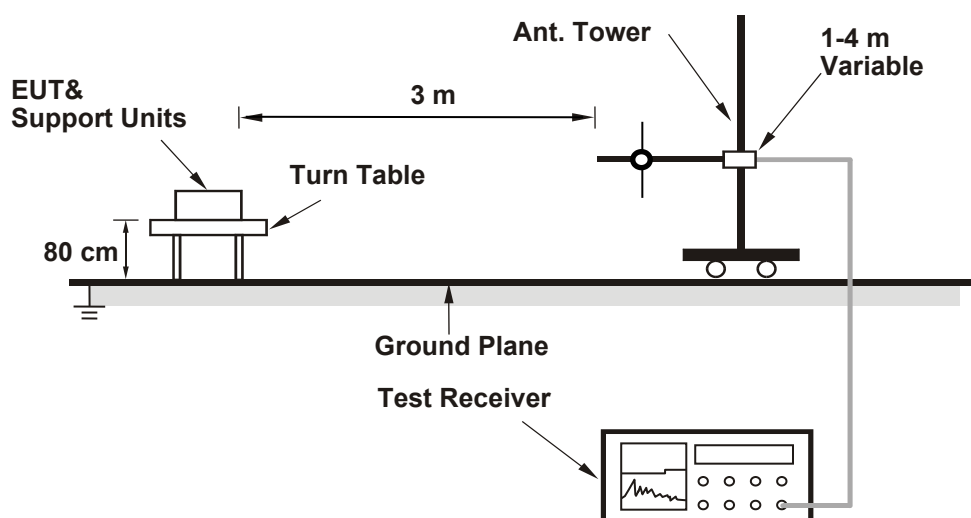
6.7 Unwanted Emissions below 1 GHz

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 (however, peak detector measurements may be used to determine compliance with QP requirements), 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

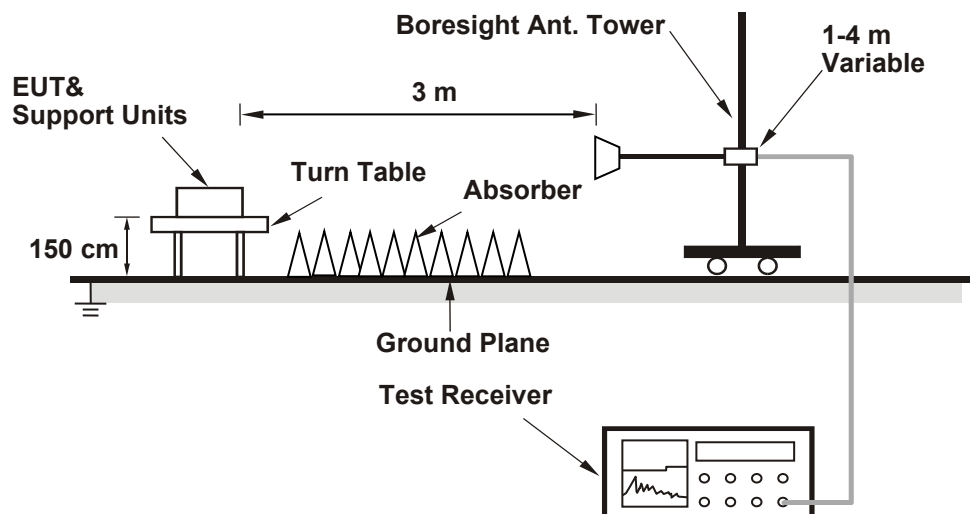
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequencies less than or equal to 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 (however, peak detector measurements may be used to determine compliance with QP requirements).
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

Environmental Conditions:	25°C, 60% RH	Tested By:	Match
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	21.49
60	5300	21.46
64	5320	21.6
100	5500	21.6
120	5600	21.6
140	5700	21.4
144 (U-NII-2C)	5720	15.61
144 (U-NII-3)	5720	5.85

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.49	24.32	>	24
60	5300	21.46	24.31	>	24
64	5320	21.60	24.34	>	24
100	5500	21.60	24.34	>	24
120	5600	21.60	24.34	>	24
140	5700	21.40	24.3	>	24
144 (U-NII-2C)	5720	15.61	22.93	<	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)
52	5260	21.53
60	5300	21.91
64	5320	21.71
100	5500	21.9
120	5600	21.85
140	5700	21.75
144 (U-NII-2C)	5720	16.04
144 (U-NII-3)	5720	5.89

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.53	24.33	>	24
60	5300	21.91	24.4	>	24
64	5320	21.71	24.36	>	24
100	5500	21.90	24.4	>	24
120	5600	21.85	24.39	>	24
140	5700	21.75	24.37	>	24
144 (U-NII-2C)	5720	16.04	23.05	<	24

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

802.11ax (HE20) 26-tone RU

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	19.88
60	5300	19.86
64	5320	20.55
100	5500	19.9
120	5600	19.87
140	5700	20.57
144 (U-NII-2C)	5720	14.72
144 (U-NII-3)	5720	5.95

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	19.88	23.98	<	24
60	5300	19.86	23.97	<	24
64	5320	20.55	24.12	>	24
100	5500	19.90	23.98	<	24
120	5600	19.87	23.98	<	24
140	5700	20.57	24.13	>	24
144 (U-NII-2C)	5720	14.72	22.67	<	24

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

802.11ax (HE20) 52-tone RU

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	19.98
60	5300	19.91
64	5320	20.53
100	5500	19.95
120	5600	19.99
140	5700	20.46
144 (U-NII-2C)	5720	14.52
144 (U-NII-3)	5720	6.01

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	19.98	24	=	24
60	5300	19.91	23.99	<	24
64	5320	20.53	24.12	>	24
100	5500	19.95	23.99	<	24
120	5600	19.99	24	=	24
140	5700	20.46	24.1	>	24
144 (U-NII-2C)	5720	14.52	22.61	<	24

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

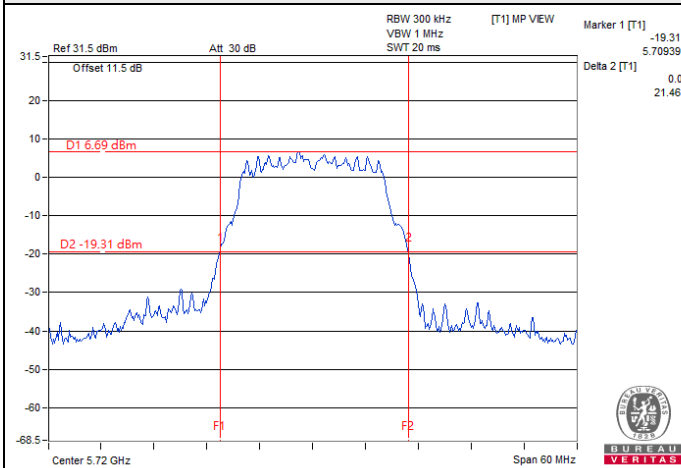
802.11ax (HE20) 106-tone RU

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	21.25
60	5300	21.28
64	5320	21.18
100	5500	21.15
120	5600	21.25
140	5700	21.36
144 (U-NII-2C)	5720	15.33
144 (U-NII-3)	5720	5.99

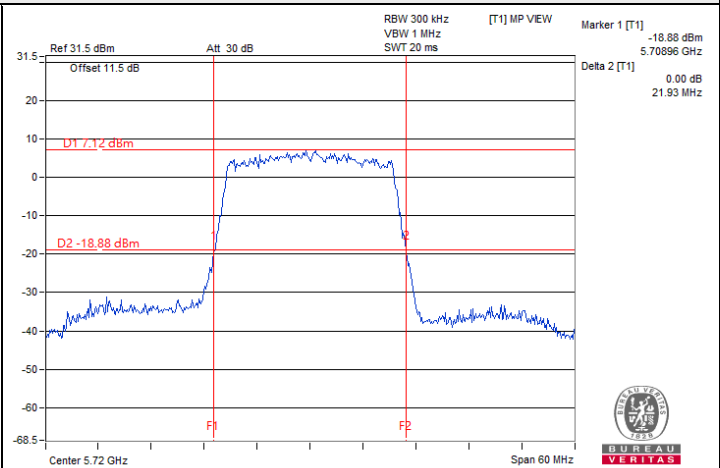
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.25	24.27	>	24
60	5300	21.28	24.27	>	24
64	5320	21.18	24.25	>	24
100	5500	21.15	24.25	>	24
120	5600	21.25	24.27	>	24
140	5700	21.36	24.29	>	24
144 (U-NII-2C)	5720	15.33	22.85	<	24

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

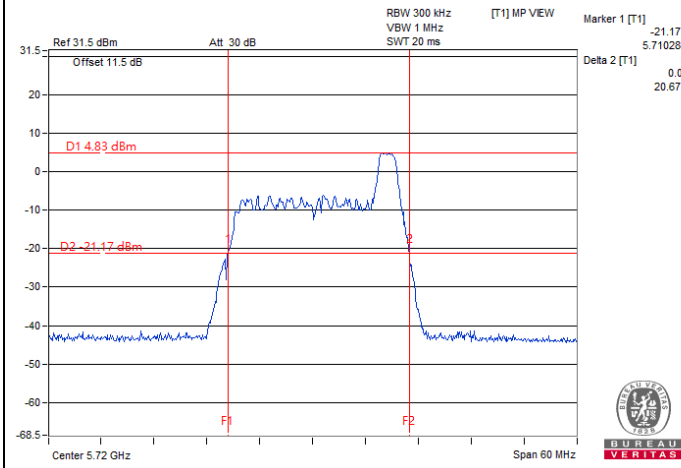
Spectrum Plot of Minimum Value



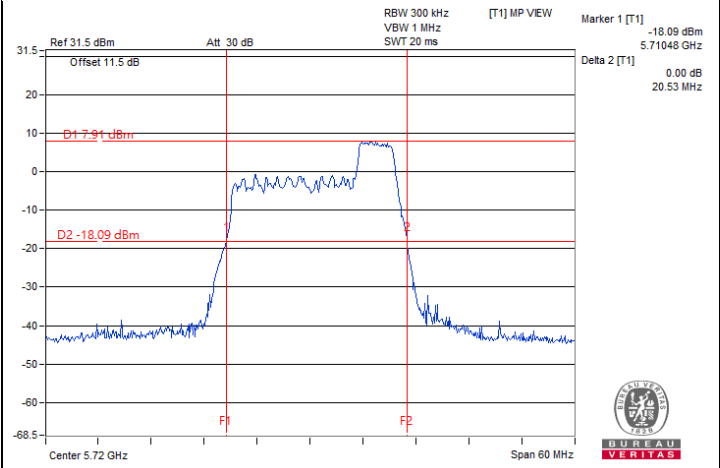
802.11a: CH 144 (U-NII-3)



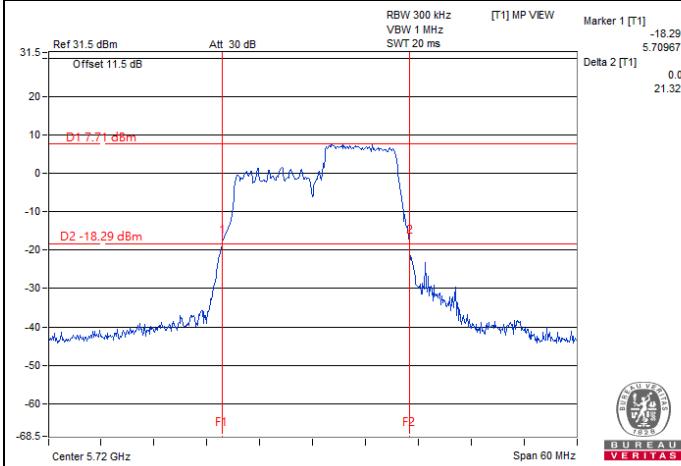
802.11ax (HE20): CH 144 (U-NII-3)



802.11ax (HE20) 26-tone RU: CH 144 (U-NII-3)



802.11ax (HE20) 52-tone RU: CH 144 (U-NII-3)



802.11ax (HE20) 106-tone RU: CH 144 (U-NII-3)

Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

7.2 RF Output Power

Environmental Conditions:	25°C, 60% RH	Tested By:	Match
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	47.098	16.73	24	Pass
40	5200	50.699	17.05	24	Pass
48	5240	49.545	16.95	24	Pass
52	5260	48.306	16.84	24	Pass
60	5300	48.084	16.82	24	Pass
64	5320	35.81	15.54	24	Pass
100	5500	42.855	16.32	24	Pass
120	5600	42.855	16.32	24	Pass
140	5700	39.537	15.97	24	Pass
*144 (U-NII-2C)	5720	21.134	13.25	22.93	Pass
*144 (U-NII-3)	5720	6.397	8.06	30	Pass
149	5745	43.954	16.43	30	Pass
157	5785	45.499	16.58	30	Pass
165	5825	43.251	16.36	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4 dBi <= 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4 dBi <= 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4 dBi <= 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4 dBi <= 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	41.879	16.22	24	Pass
40	5200	51.88	17.15	24	Pass
48	5240	48.306	16.84	24	Pass
52	5260	48.084	16.82	24	Pass
60	5300	47.315	16.75	24	Pass
64	5320	32.063	15.06	24	Pass
100	5500	37.844	15.78	24	Pass
120	5600	42.855	16.32	24	Pass
140	5700	27.416	14.38	24	Pass
*144 (U-NII-2C)	5720	19.403	12.88	23.05	Pass
*144 (U-NII-3)	5720	4.496	6.53	30	Pass
149	5745	45.29	16.56	30	Pass
157	5785	44.978	16.53	30	Pass
165	5825	45.186	16.55	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	7.129	8.53	24	Pass
40	5200	7.925	8.99	24	Pass
48	5240	8.11	9.09	24	Pass
52	5260	7.834	8.94	23.98	Pass
60	5300	8.035	9.05	23.97	Pass
64	5320	5.023	7.01	24	Pass
100	5500	5	6.99	23.98	Pass
120	5600	7.096	8.51	23.98	Pass
140	5700	5.117	7.09	24	Pass
*144 (U-NII-2C)	5720	3.941	5.96	22.67	Pass
*144 (U-NII-3)	5720	1.697	2.30	30	Pass
149	5745	7.943	9.00	30	Pass
157	5785	8.017	9.04	30	Pass
165	5825	7.98	9.02	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	11.143	10.47	24	Pass
40	5200	14.093	11.49	24	Pass
48	5240	14.125	11.50	24	Pass
52	5260	14.223	11.53	24	Pass
60	5300	12.589	11.00	23.99	Pass
64	5320	7.925	8.99	24	Pass
100	5500	10.046	10.02	23.99	Pass
120	5600	12.56	10.99	24	Pass
140	5700	7.98	9.02	24	Pass
*144 (U-NII-2C)	5720	5.396	7.32	22.61	Pass
*144 (U-NII-3)	5720	3.098	4.91	30	Pass
149	5745	12.647	11.02	30	Pass
157	5785	14.191	11.52	30	Pass
165	5825	14.093	11.49	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

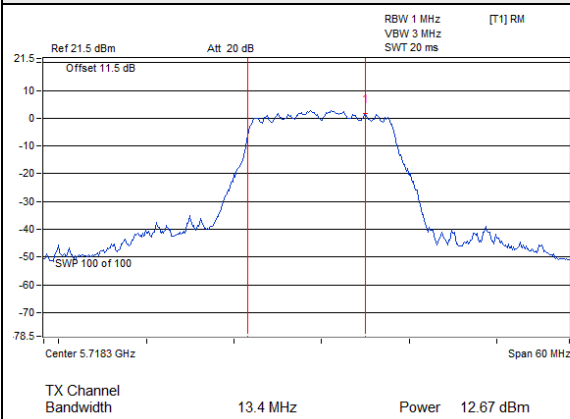
802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	18.365	12.64	24	Pass
40	5200	23.388	13.69	24	Pass
48	5240	23.496	13.71	24	Pass
52	5260	23.227	13.66	24	Pass
60	5300	22.909	13.60	24	Pass
64	5320	14.655	11.66	24	Pass
100	5500	18.707	12.72	24	Pass
120	5600	23.121	13.64	24	Pass
140	5700	14.894	11.73	24	Pass
*144 (U-NII-2C)	5720	13.463	11.29	22.85	Pass
*144 (U-NII-3)	5720	4.417	6.45	30	Pass
149	5745	23.174	13.65	30	Pass
157	5785	22.961	13.61	30	Pass
165	5825	23.121	13.64	30	Pass

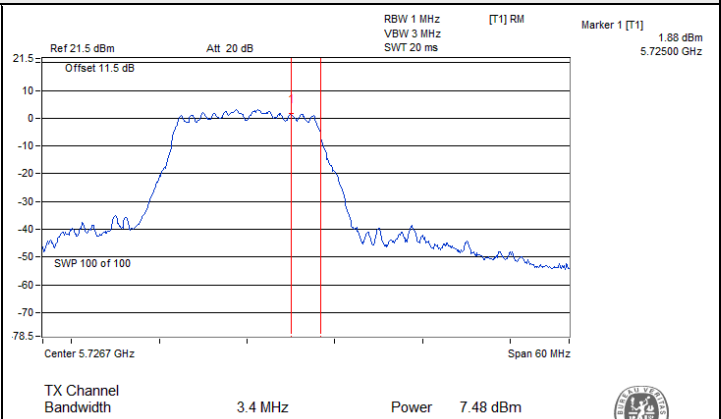
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

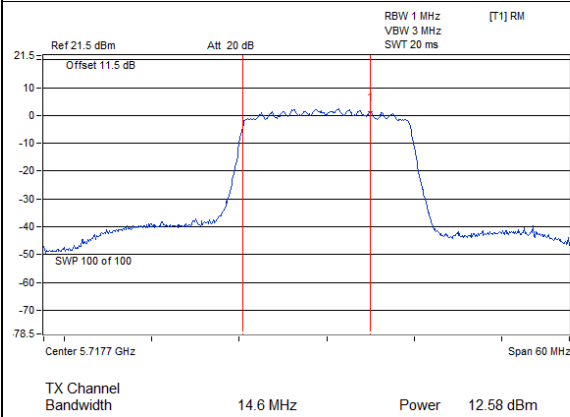
Spectrum Plot for channel straddling



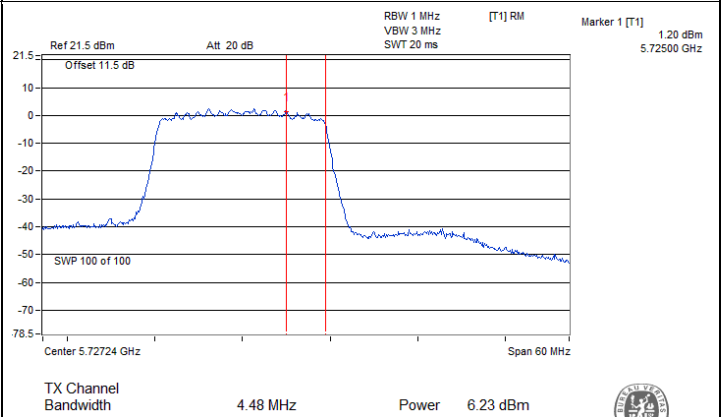
802.11a: CH 144 (U-NII-2C)



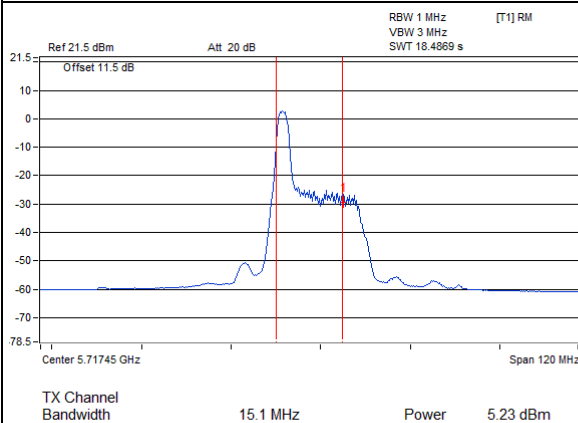
802.11a: CH 144 (U-NII-3)



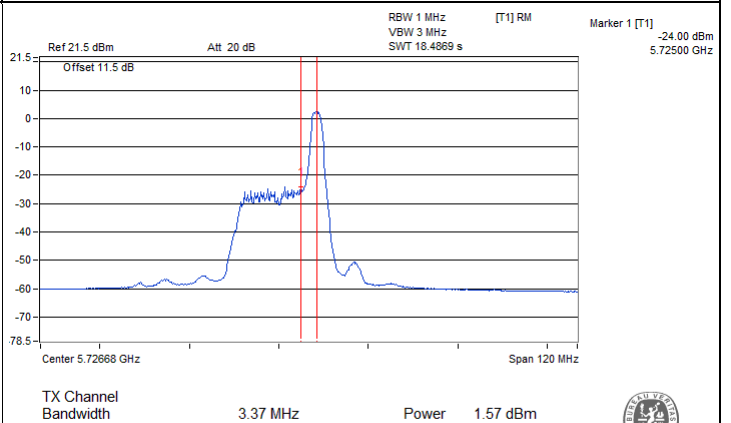
802.11ax (HE20): CH 144 (U-NII-2C)



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

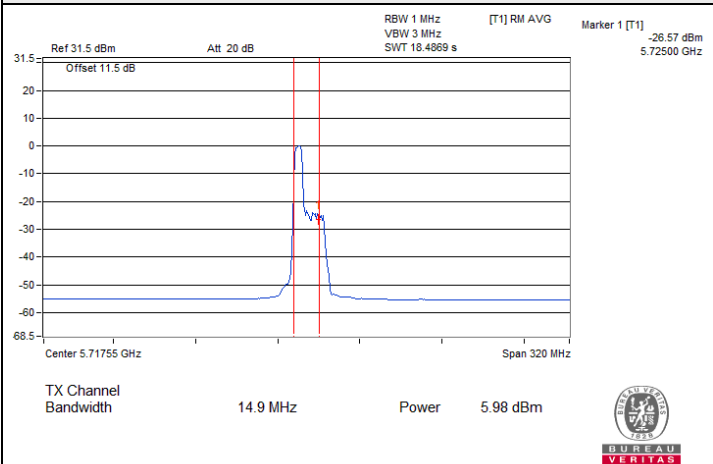


802.11ax (HE20) 26-tone RU: CH 144 (U-NII-2C)

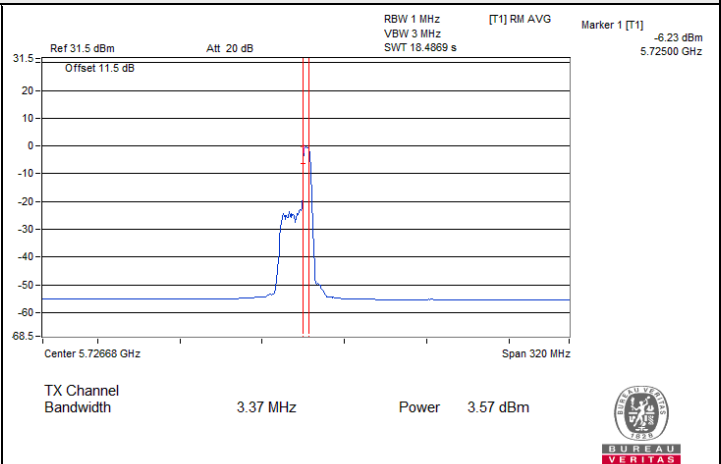


802.11ax (HE20) 26-tone RU: CH 144 (U-NII-3)

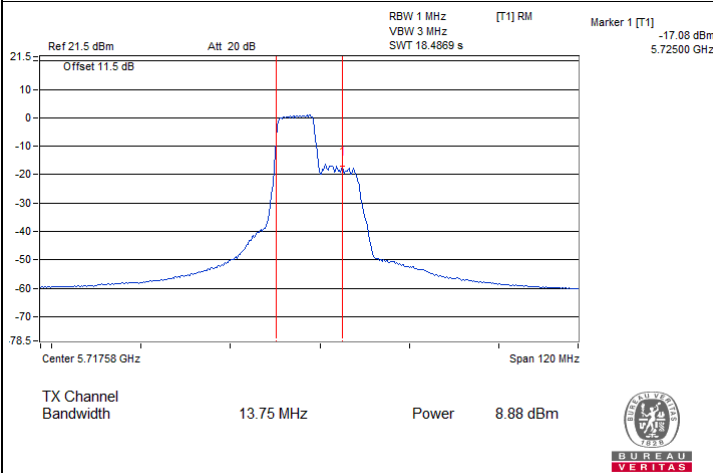
Spectrum Plot for channel straddling



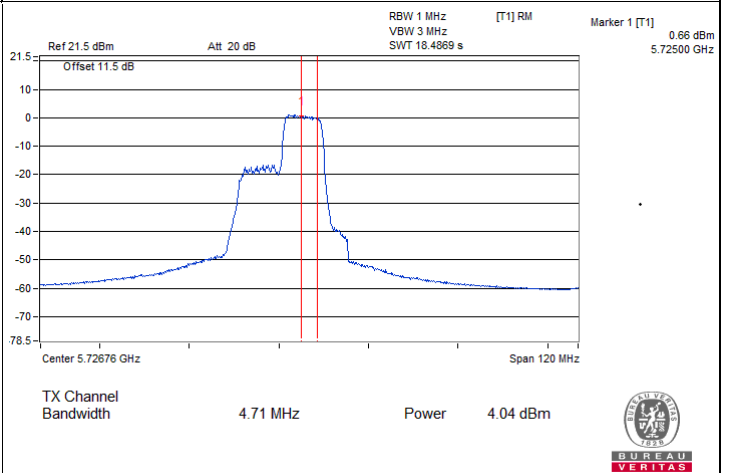
802.11ax (HE20) 52-tone RU: CH 144 (U-NII-2C)



802.11ax (HE20) 52-tone RU: CH 144 (U-NII-3)



802.11ax (HE20) 106-tone RU: CH 144 (U-NII-2C)



802.11ax (HE20) 106-tone RU: CH 144 (U-NII-3)

7.3 Power Spectral Density

Environmental Conditions:	25°C, 60% RH	Tested By:	Match
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802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	3.48	0.58	4.06	11	Pass
40	5200	3.91	0.58	4.49	11	Pass
48	5240	3.63	0.58	4.21	11	Pass
52	5260	3.77	0.58	4.35	11	Pass
60	5300	3.93	0.58	4.51	11	Pass
64	5320	2.52	0.58	3.10	11	Pass
100	5500	3.17	0.58	3.75	11	Pass
120	5600	3.28	0.58	3.86	11	Pass
140	5700	2.86	0.58	3.44	11	Pass
144 (U-NII-2C)	5720	3.16	0.58	3.74	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 4 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)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	2.80	0.30	3.10	11	Pass
40	5200	3.49	0.30	3.79	11	Pass
48	5240	3.57	0.30	3.87	11	Pass
52	5260	3.67	0.30	3.97	11	Pass
60	5300	3.67	0.30	3.97	11	Pass
64	5320	1.79	0.30	2.09	11	Pass
100	5500	2.58	0.30	2.88	11	Pass
120	5600	3.33	0.30	3.63	11	Pass
140	5700	0.86	0.30	1.16	11	Pass
144 (U-NII-2C)	5720	3.16	0.30	3.46	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	2.30	0.73	3.03	11	Pass
40	5200	2.91	0.73	3.64	11	Pass
48	5240	3.11	0.73	3.84	11	Pass
52	5260	2.87	0.73	3.60	11	Pass
60	5300	2.76	0.73	3.49	11	Pass
64	5320	1.14	0.73	1.87	11	Pass
100	5500	1.79	0.73	2.52	11	Pass
120	5600	1.99	0.73	2.72	11	Pass
140	5700	-0.29	0.73	0.44	11	Pass
144 (U-NII-2C)	5720	2.66	0.73	3.39	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	1.53	1.34	2.87	11	Pass
40	5200	2.32	1.34	3.66	11	Pass
48	5240	2.38	1.34	3.72	11	Pass
52	5260	2.21	1.34	3.55	11	Pass
60	5300	2.43	1.34	3.77	11	Pass
64	5320	0.71	1.34	2.05	11	Pass
100	5500	1.28	1.34	2.62	11	Pass
120	5600	2.21	1.34	3.55	11	Pass
140	5700	-0.33	1.34	1.01	11	Pass
144 (U-NII-2C)	5720	2.02	1.34	3.36	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	0.56	2.41	2.97	11	Pass
40	5200	0.91	2.41	3.32	11	Pass
48	5240	1.41	2.41	3.82	11	Pass
52	5260	1.15	2.41	3.56	11	Pass
60	5300	1.25	2.41	3.66	11	Pass
64	5320	-0.35	2.41	2.06	11	Pass
100	5500	0.44	2.41	2.85	11	Pass
120	5600	1.13	2.41	3.54	11	Pass
140	5700	-1.56	2.41	0.85	11	Pass
144 (U-NII-2C)	5720	0.51	2.41	2.92	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-8.37	0.58	-5.57	30	Pass
149	5745	-5.99	0.58	-3.19	30	Pass
157	5785	-5.85	0.58	-3.05	30	Pass
165	5825	-5.28	0.58	-2.48	30	Pass

Note: For U-NII-3, the antenna gain is 4 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)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-9.47	0.3	-6.95	30	Pass
149	5745	-8.06	0.3	-5.54	30	Pass
157	5785	-8.1	0.3	-5.58	30	Pass
165	5825	-7.91	0.3	-5.39	30	Pass

Note: For U-NII-3, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-10.08	0.73	-7.13	30	Pass
149	5745	-8.67	0.73	-5.72	30	Pass
157	5785	-8.85	0.73	-5.9	30	Pass
165	5825	-8.8	0.73	-5.85	30	Pass

Note: For U-NII-3, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-10.03	1.34	-6.47	30	Pass
149	5745	-9.44	1.34	-5.88	30	Pass
157	5785	-9.46	1.34	-5.9	30	Pass
165	5825	-9.54	1.34	-5.98	30	Pass

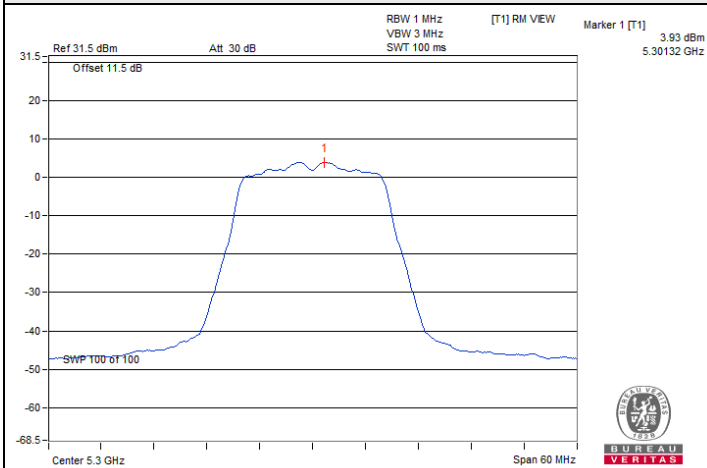
Note: For U-NII-3, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 106-tone RU

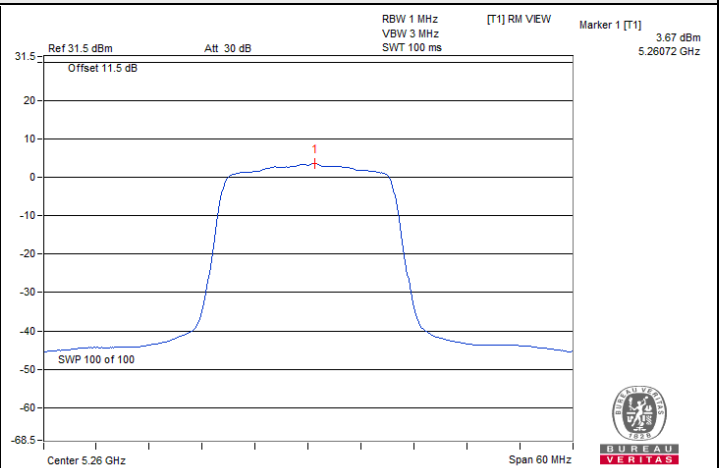
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-12.05	2.41	-7.42	30	Pass
149	5745	-10.25	2.41	-5.62	30	Pass
157	5785	-10.49	2.41	-5.86	30	Pass
165	5825	-10.2	2.41	-5.57	30	Pass

Note: For U-NII-3, the antenna gain is 4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

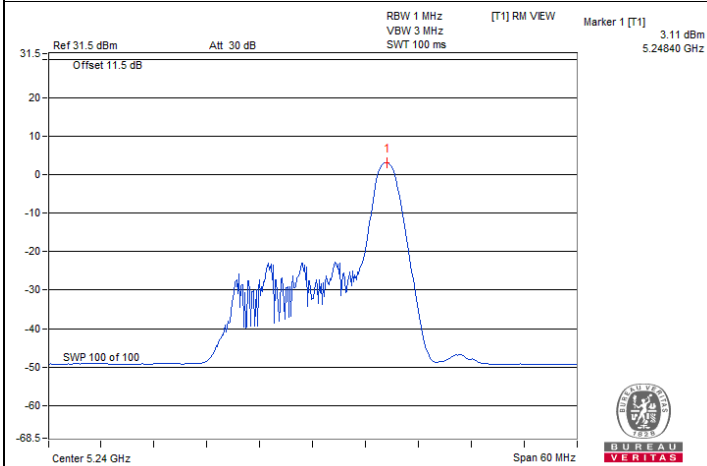
Spectrum Plot of Maximum Value



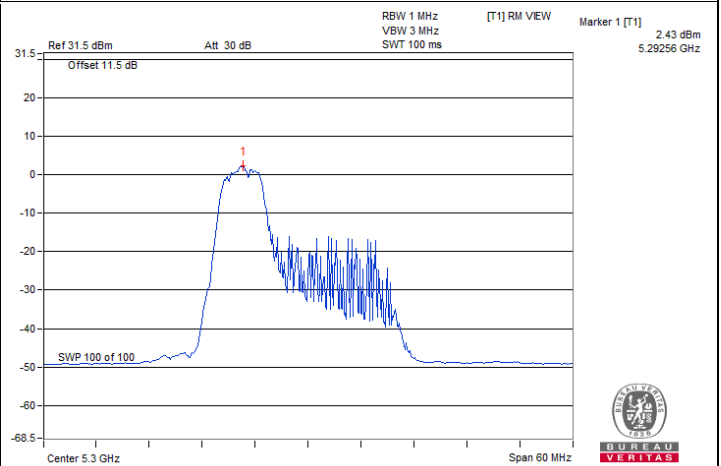
802.11a: CH 60



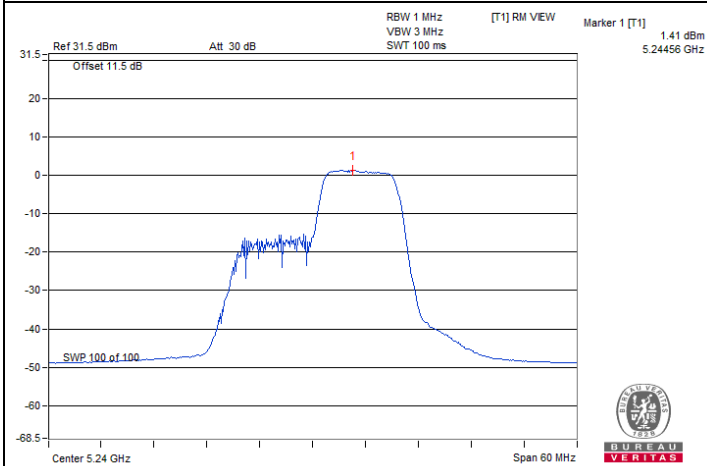
802.11ax (HE20): CH 52



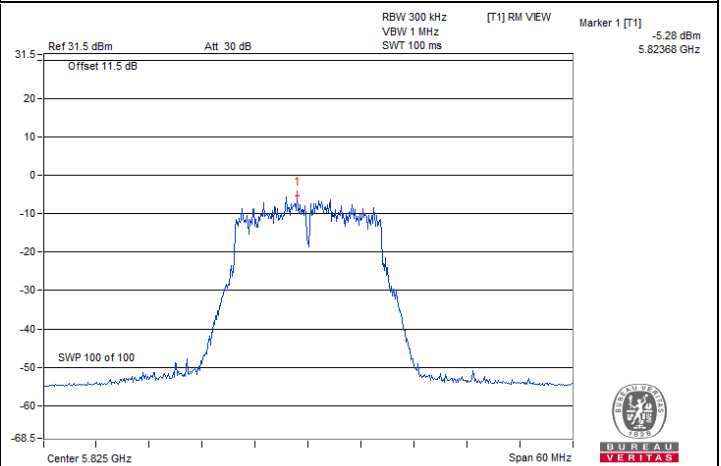
802.11ax (HE20) 26-tone RU: CH 48



802.11ax (HE20) 52-tone RU: CH 60

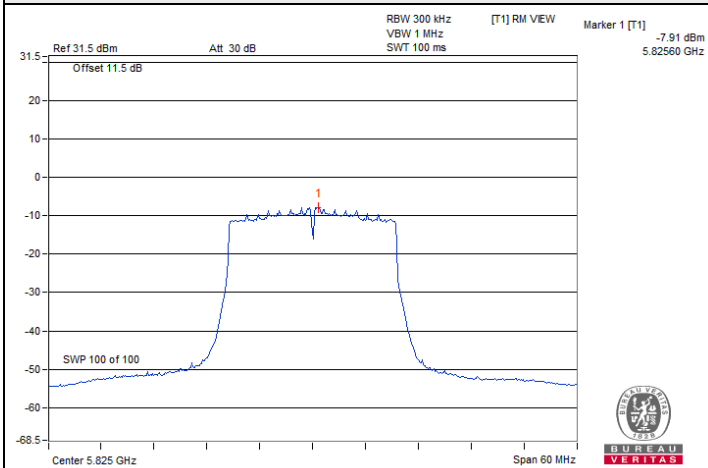


802.11ax (HE20) 106-tone RU: CH 48

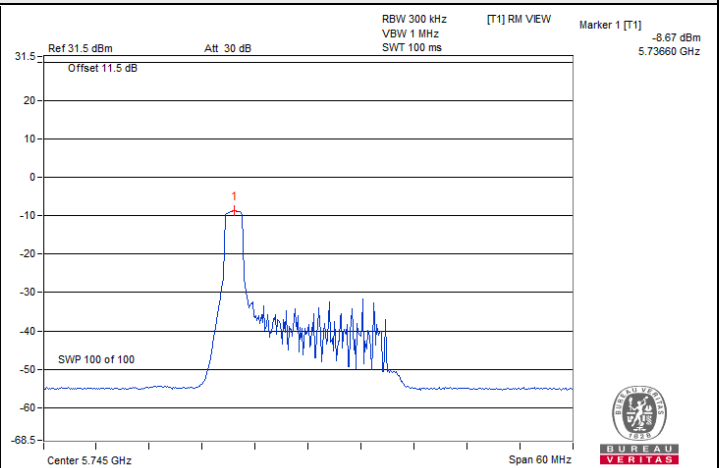


802.11a: CH 165

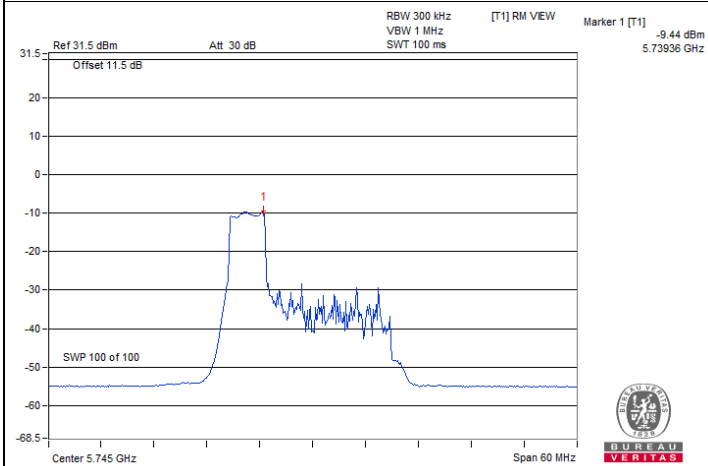
Spectrum Plot of Maximum Value



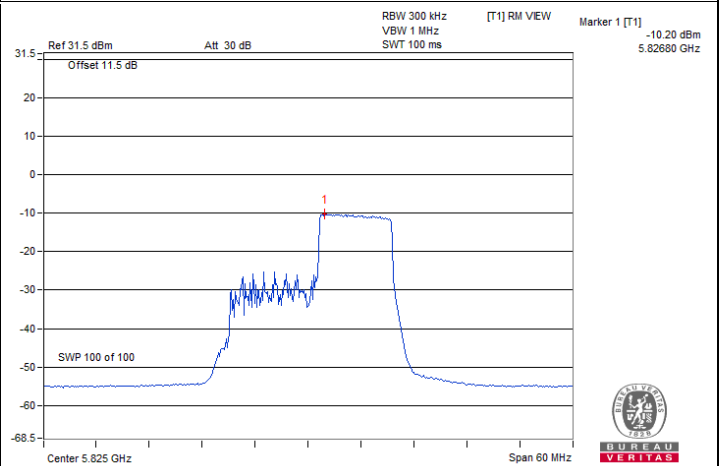
802.11ax (HE20): CH 165



802.11ax (HE20) 26-tone RU: CH 149



802.11ax (HE20) 52-tone RU: CH 149



802.11ax (HE20) 106-tone RU: CH 165

7.4 6 dB Bandwidth

Environmental Conditions:	25°C, 60% RH	Tested By:	Match
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	2.63	0.5	Pass
149	5745	15.24	0.5	Pass
157	5785	15.28	0.5	Pass
165	5825	15.27	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	3.93	0.5	Pass
149	5745	18.13	0.5	Pass
157	5785	18.04	0.5	Pass
165	5825	16.85	0.5	Pass

802.11ax (HE20) 26-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	2.16	0.5	Pass
149	5745	2.2	0.5	Pass
157	5785	2.16	0.5	Pass
165	5825	2.13	0.5	Pass

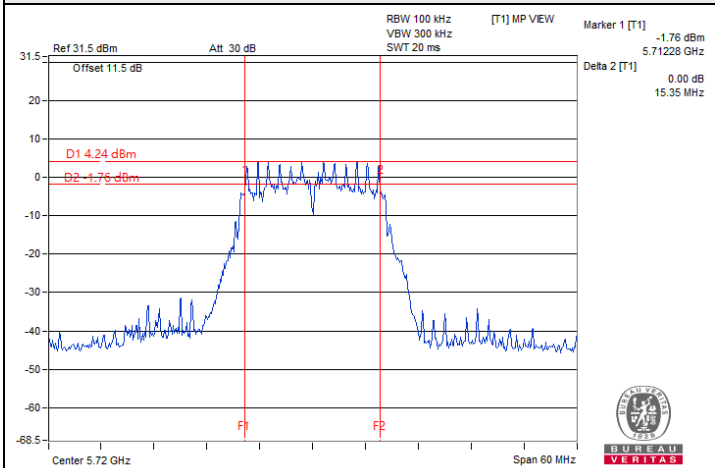
802.11ax (HE20) 52-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	4.54	0.5	Pass
149	5745	17.09	0.5	Pass
157	5785	17.09	0.5	Pass
165	5825	17.01	0.5	Pass

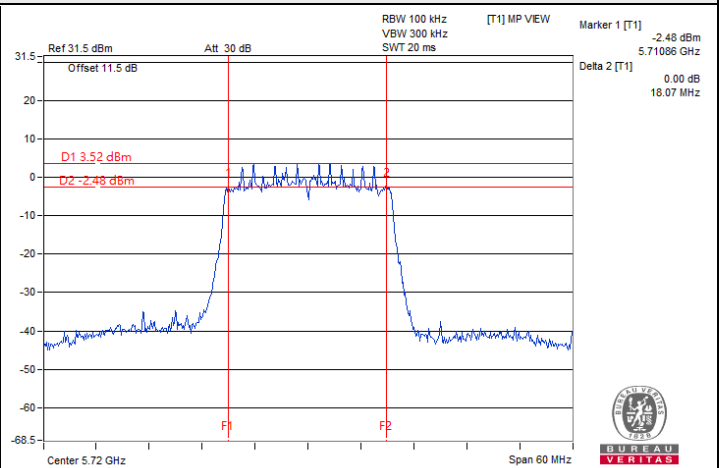
802.11ax (HE20) 106-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	4.59	0.5	Pass
149	5745	17.2	0.5	Pass
157	5785	17.29	0.5	Pass
165	5825	17.19	0.5	Pass

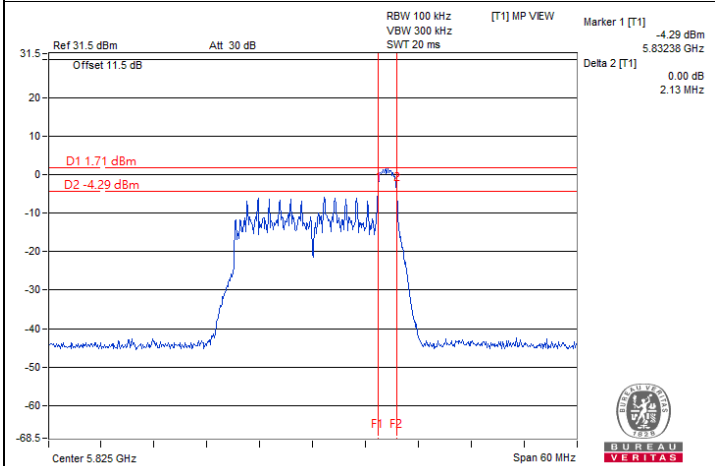
Spectrum Plot of Minimum Value



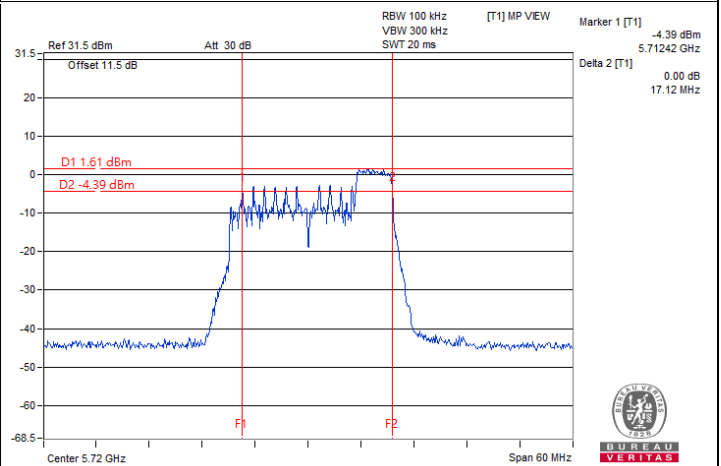
802.11a: CH 144 (U-NII-3)



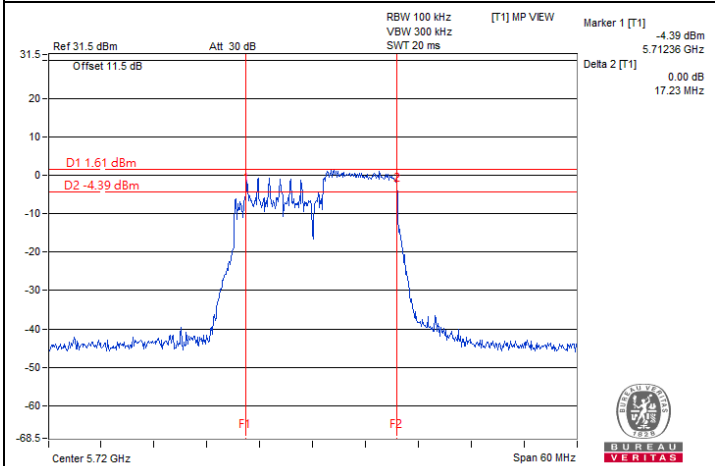
802.11ax (HE20): CH 144 (U-NII-3)



802.11ax (HE20) 26-tone RU: CH 165



802.11ax (HE20) 52-tone RU: CH 144 (U-NII-3)



802.11ax (HE20) 106-tone RU: CH 144 (U-NII-3)

Note: For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

7.5 Occupied Bandwidth

Environmental Conditions:	25°C, 60% RH	Tested By:	Match
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	16.8
40	5200	16.8
48	5240	16.56
52	5260	16.68
60	5300	16.68
64	5320	16.8
100	5500	16.68
120	5600	16.8
140	5700	16.56
144 (U-NII-2C)	5720	13.4
144 (U-NII-3)	5720	3.4
149	5745	16.64
157	5785	16.74
165	5825	16.54

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.96
40	5200	18.96
48	5240	19.08
52	5260	19.08
60	5300	19.08
64	5320	19.08
100	5500	19.08
120	5600	19.08
140	5700	19.08
144 (U-NII-2C)	5720	14.6
144 (U-NII-3)	5720	4.48
149	5745	19.14
157	5785	19.04
165	5825	18.94

802.11ax (HE20) 26-tone RU

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.37
40	5200	18.27
48	5240	18.55
52	5260	18.46
60	5300	18.56
64	5320	18.46
100	5500	18.37
120	5600	18.37
140	5700	18.55
144 (U-NII-2C)	5720	15.1
144 (U-NII-3)	5720	3.37
149	5745	18.17
157	5785	18.56
165	5825	18.55

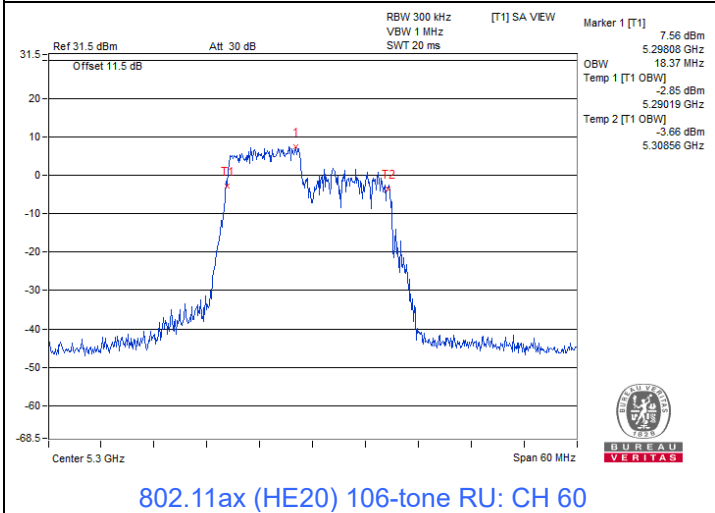
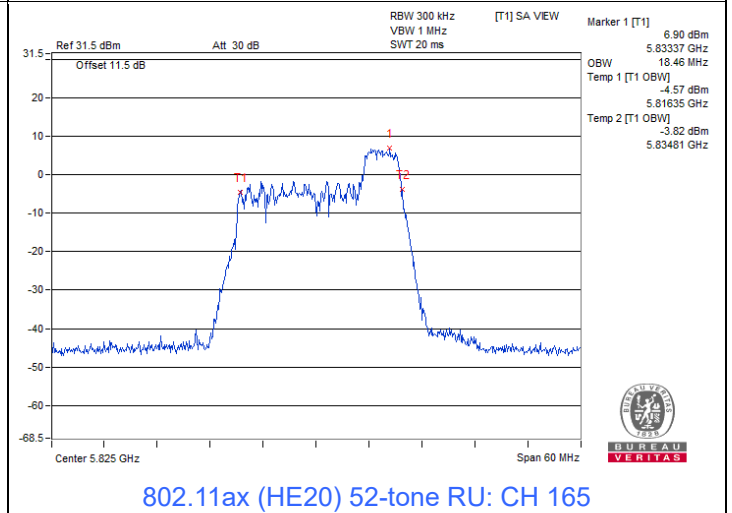
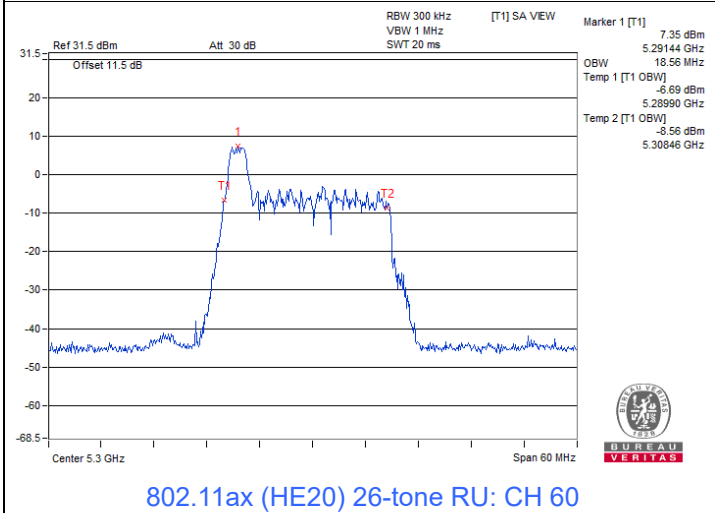
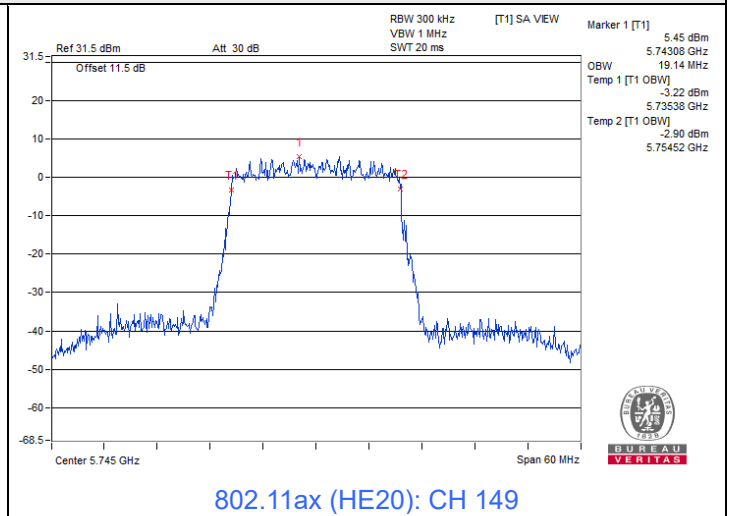
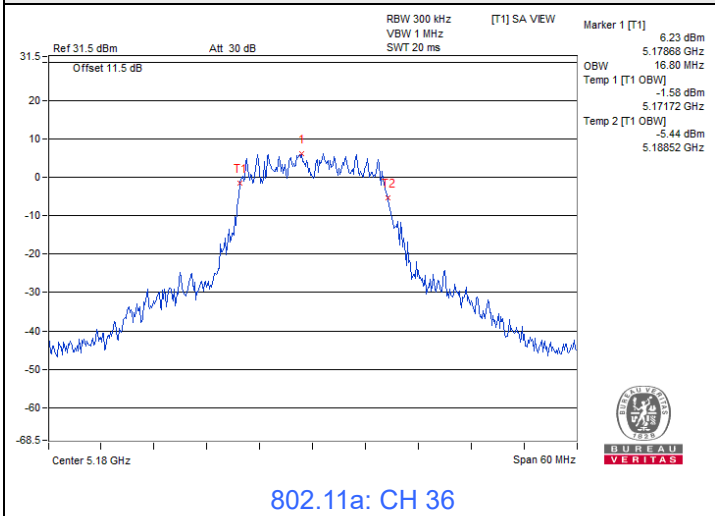
802.11ax (HE20) 52-tone RU

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.27
40	5200	18.36
48	5240	18.37
52	5260	18.18
60	5300	18.36
64	5320	18.37
100	5500	18.36
120	5600	18.36
140	5700	18.37
144 (U-NII-2C)	5720	14.9
144 (U-NII-3)	5720	3.37
149	5745	18.17
157	5785	18.27
165	5825	18.46

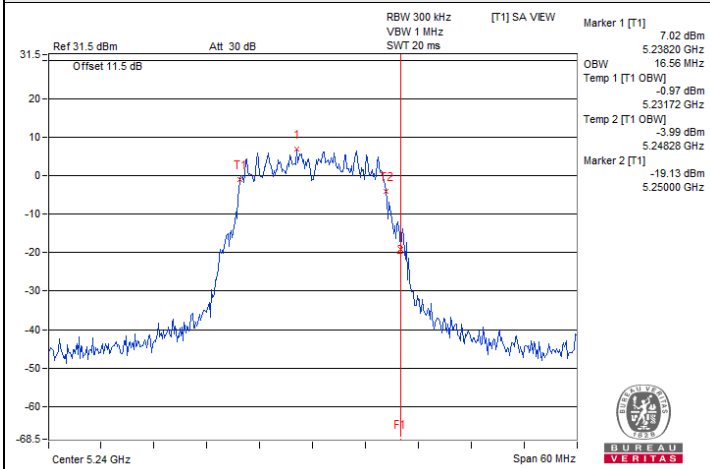
802.11ax (HE20) 106-tone RU

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.27
40	5200	18.27
48	5240	18.27
52	5260	18.27
60	5300	18.37
64	5320	18.27
100	5500	18.37
120	5600	18.37
140	5700	18.27
144 (U-NII-2C)	5720	13.75
144 (U-NII-3)	5720	4.71
149	5745	18.27
157	5785	18.27
165	5825	18.27

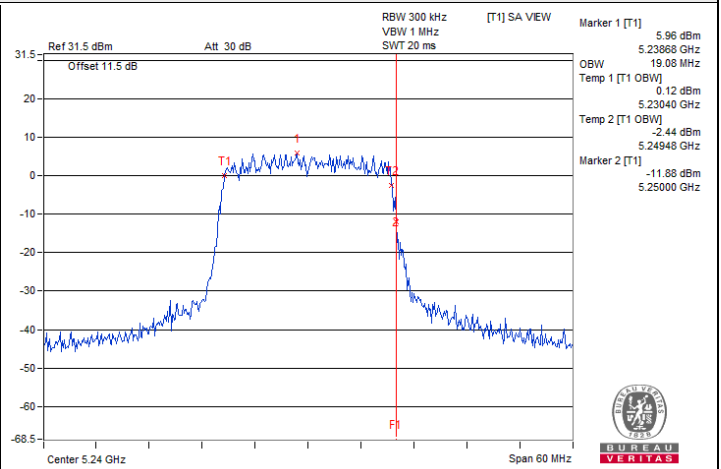
Spectrum Plot of Maximum Value



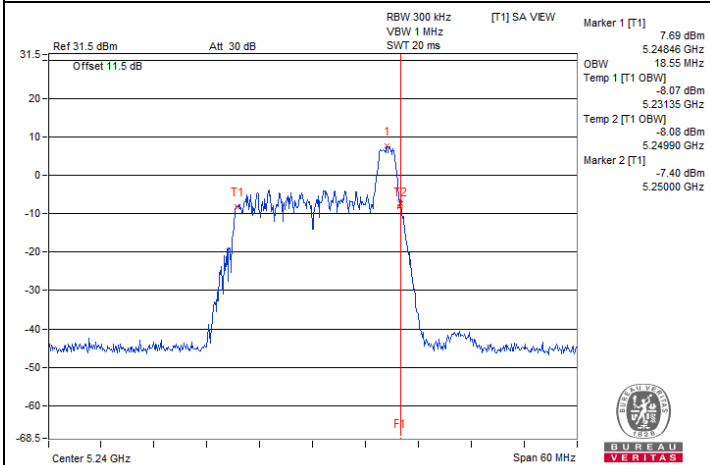
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



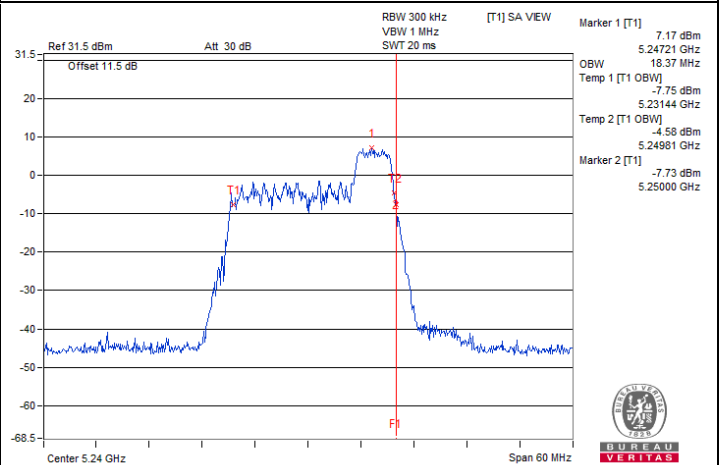
802.11a: CH 48



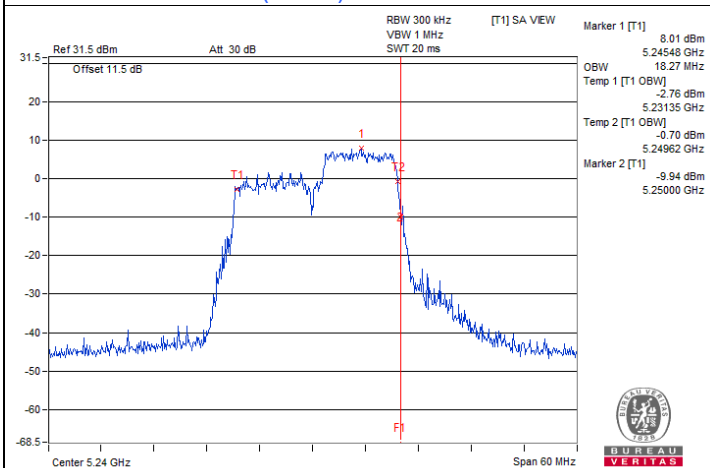
802.11ax (HE20): CH 48



802.11ax (HE20) 26-tone RU: CH 48

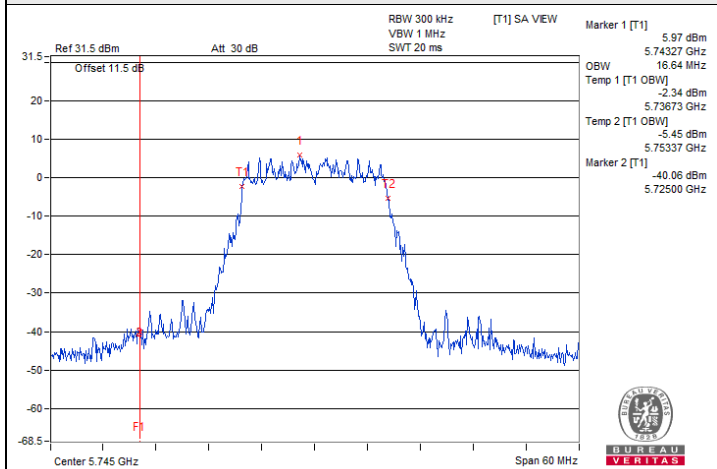


802.11ax (HE20) 52-tone RU: CH 48

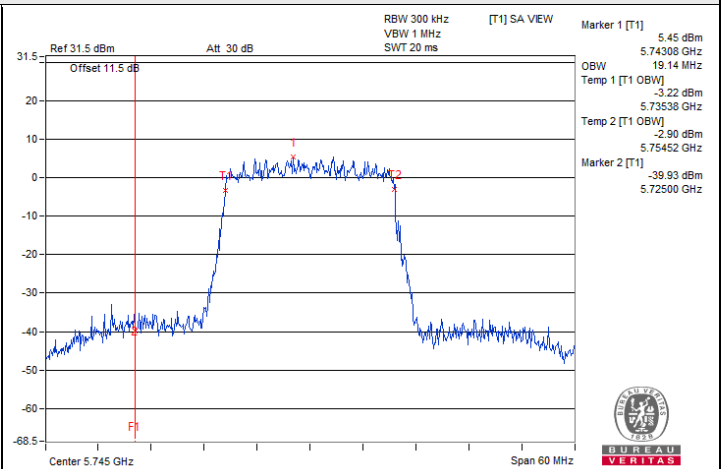


802.11ax (HE20) 106-tone RU: CH 48

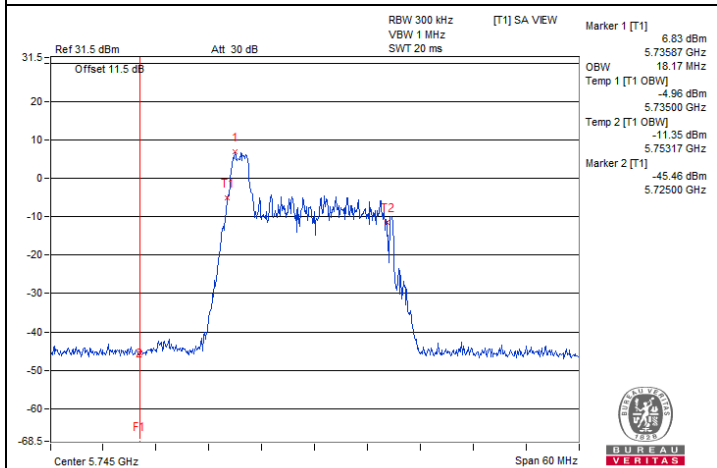
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



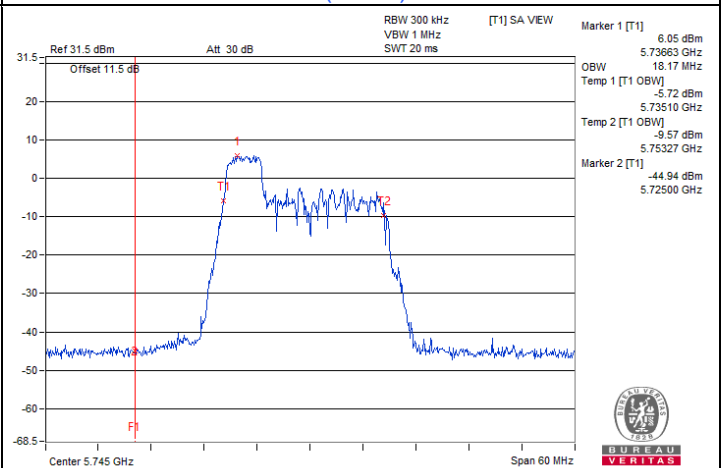
802.11a: CH 149



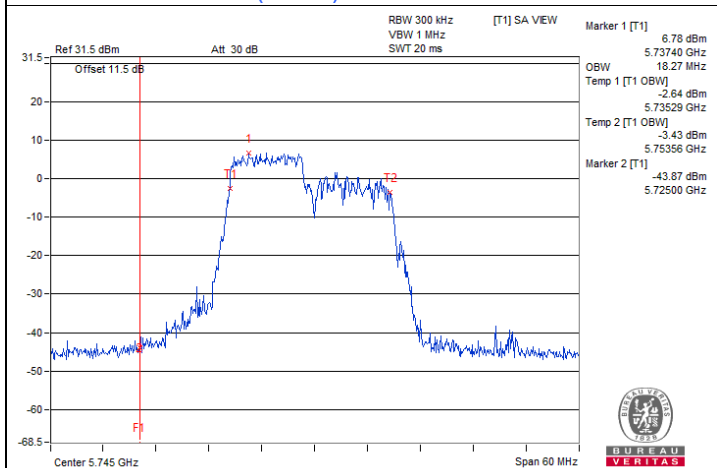
802.11ax (HE20): CH 149



802.11ax (HE20) 26-tone RU: CH 149



802.11ax (HE20) 52-tone RU: CH 149



802.11ax (HE20) 106-tone RU: CH 149

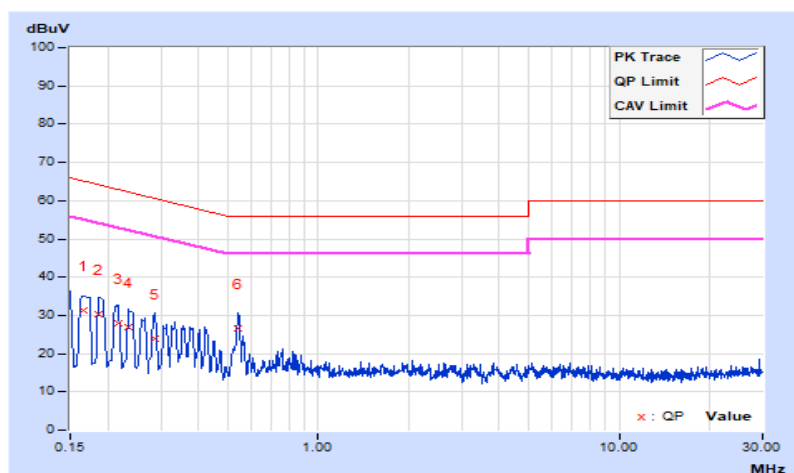
7.6 AC Power Conducted Emissions

RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Vanness Huang		

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	0.16535	9.77	21.64	5.24	31.41	15.01	65.19	55.19	-33.78	-40.18
2	0.18600	9.77	20.39	4.79	30.16	14.56	64.21	54.21	-34.05	-39.65
3	0.21800	9.76	18.24	4.15	28.00	13.91	62.89	52.89	-34.89	-38.98
4	0.23400	9.76	17.27	3.31	27.03	13.07	62.31	52.31	-35.28	-39.24
5	0.28600	9.77	14.16	1.85	23.93	11.62	60.64	50.64	-36.71	-39.02
6	0.54200	9.79	16.75	8.11	26.54	17.90	56.00	46.00	-29.46	-28.10

Remarks:

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

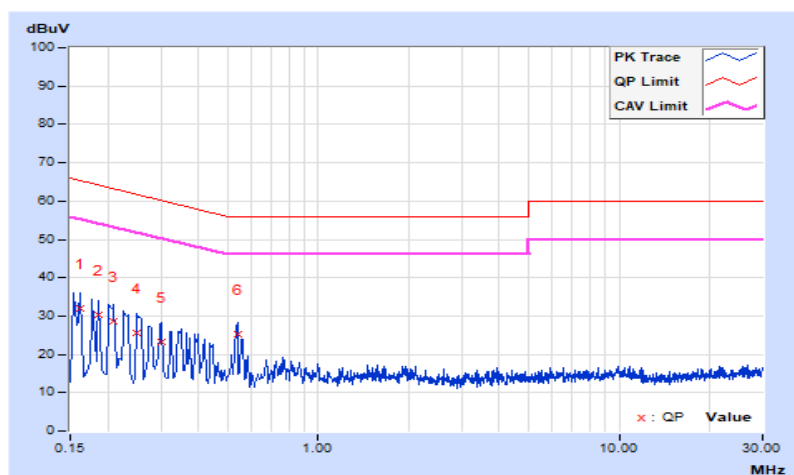


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Vanness Huang		

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	0.16190	9.78	22.05	5.10	31.83	14.88	65.37	55.37	-33.54	-40.49
2	0.18600	9.77	20.55	4.38	30.32	14.15	64.21	54.21	-33.89	-40.06
3	0.21000	9.76	18.70	3.38	28.46	13.14	63.21	53.21	-34.75	-40.07
4	0.25000	9.77	15.96	2.75	25.73	12.52	61.76	51.76	-36.03	-39.24
5	0.29992	9.77	13.45	1.03	23.22	10.80	60.25	50.25	-37.03	-39.45
6	0.53800	9.79	15.39	3.86	25.18	13.65	56.00	46.00	-30.82	-32.35

Remarks:

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



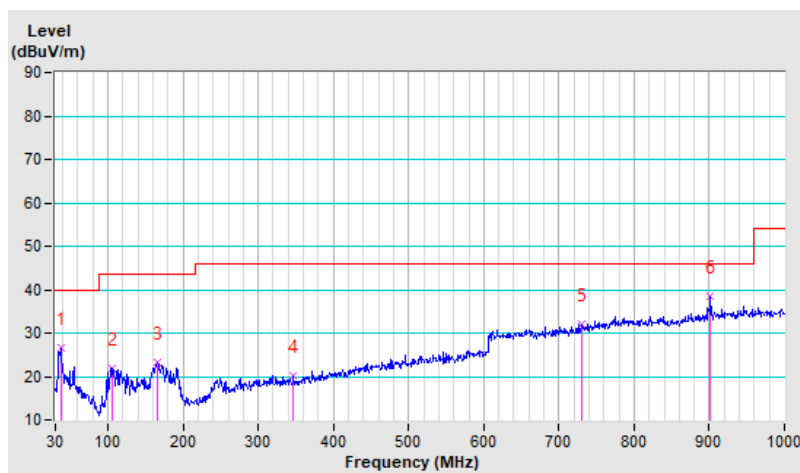
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 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, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36.79	26.7 QP	40.0	-13.3	1.72 H	161	40.2	-13.5
2	105.66	21.8 QP	43.5	-21.7	1.85 H	263	38.0	-16.2
3	164.83	23.2 QP	43.5	-20.3	1.35 H	226	35.8	-12.6
4	346.22	20.2 QP	46.0	-25.8	1.92 H	225	31.1	-10.9
5	729.37	32.1 QP	46.0	-13.9	1.75 H	16	34.0	-1.9
6	902.03	38.6 QP	46.0	-7.4	1.88 H	206	37.9	0.7

Remarks:

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

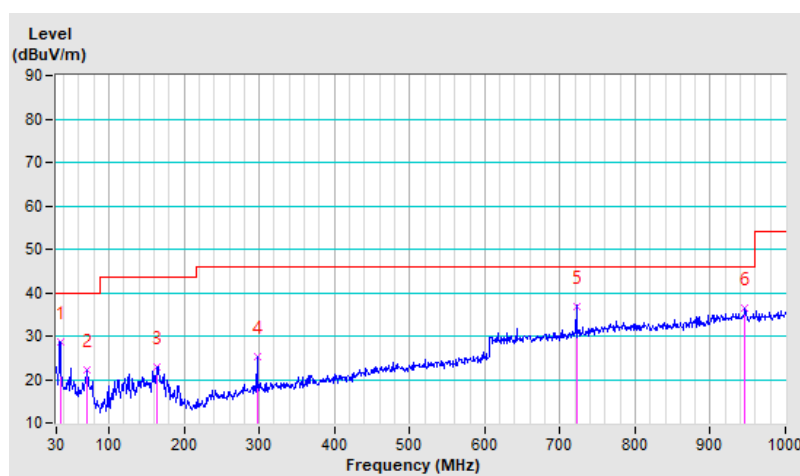


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	34.85	28.8 QP	40.0	-11.2	1.08 V	16	42.6	-13.8
2	70.74	22.3 QP	40.0	-17.7	1.15 V	282	37.8	-15.5
3	162.89	23.0 QP	43.5	-20.5	1.37 V	160	35.4	-12.4
4	296.75	25.3 QP	46.0	-20.7	1.95 V	24	37.2	-11.9
5	721.61	36.9 QP	46.0	-9.1	1.73 V	106	39.0	-2.1
6	946.65	36.4 QP	46.0	-9.6	1.88 V	211	35.0	1.4

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 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.7 PK	74.0	-15.3	2.02 H	248	55.6	3.1
2	5150.00	49.0 AV	54.0	-5.0	2.02 H	248	45.9	3.1
3	*5180.00	109.4 PK			2.02 H	248	68.6	40.8
4	*5180.00	100.5 AV			2.02 H	248	59.7	40.8
5	#10360.00	57.0 PK	68.2	-11.2	1.74 H	264	47.7	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.8 PK	74.0	-12.2	2.10 V	320	58.7	3.1
2	5150.00	50.2 AV	54.0	-3.8	2.10 V	320	47.1	3.1
3	*5180.00	113.1 PK			2.10 V	320	72.3	40.8
4	*5180.00	104.4 AV			2.10 V	320	63.6	40.8
5	#10360.00	56.9 PK	68.2	-11.3	1.51 V	109	47.6	9.3

Remarks:

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

RF Mode	802.11a	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 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	109.5 PK			2.04 H	249	68.7	40.8
2	*5200.00	101.0 AV			2.04 H	249	60.2	40.8
3	#10400.00	56.7 PK	68.2	-11.5	1.77 H	262	47.6	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	113.0 PK			2.10 V	320	72.2	40.8
2	*5200.00	104.4 AV			2.10 V	320	63.6	40.8
3	#10400.00	56.5 PK	68.2	-11.7	1.53 V	108	47.4	9.1

Remarks:

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

RF Mode	802.11a	Channel	CH 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 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	109.6 PK			2.09 H	243	68.9	40.7
2	*5240.00	100.7 AV			2.09 H	243	60.0	40.7
3	5350.00	57.4 PK	74.0	-16.6	2.09 H	243	54.4	3.0
4	5350.00	47.8 AV	54.0	-6.2	2.09 H	243	44.8	3.0
5	#10480.00	57.1 PK	68.2	-11.1	1.88 H	261	47.5	9.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	113.2 PK			1.82 V	325	72.5	40.7
2	*5240.00	103.5 AV			1.82 V	325	62.8	40.7
3	5350.00	57.9 PK	74.0	-16.1	1.82 V	325	54.9	3.0
4	5350.00	47.6 AV	54.0	-6.4	1.82 V	325	44.6	3.0
5	#10480.00	57.0 PK	68.2	-11.2	1.47 V	104	47.4	9.6

Remarks:

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

RF Mode	802.11a	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 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.4 PK	74.0	-14.6	2.11 H	247	56.3	3.1
2	5150.00	48.1 AV	54.0	-5.9	2.11 H	247	45.0	3.1
3	*5260.00	110.1 PK			2.11 H	247	69.4	40.7
4	*5260.00	101.4 AV			2.11 H	247	60.7	40.7
5	#10520.00	57.5 PK	68.2	-10.7	1.80 H	258	47.8	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.2 PK	74.0	-14.8	1.91 V	306	56.1	3.1
2	5150.00	48.1 AV	54.0	-5.9	1.91 V	306	45.0	3.1
3	*5260.00	113.6 PK			1.91 V	306	72.9	40.7
4	*5260.00	104.8 AV			1.91 V	306	64.1	40.7
5	#10520.00	57.2 PK	68.2	-11.0	1.50 V	99	47.5	9.7

Remarks:

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

RF Mode	802.11a	Channel	CH 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 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	109.7 PK			2.09 H	244	69.0	40.7
2	*5300.00	101.0 AV			2.09 H	244	60.3	40.7
3	10600.00	58.2 PK	74.0	-15.8	1.87 H	263	48.3	9.9
4	10600.00	45.3 AV	54.0	-8.7	1.87 H	263	35.4	9.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	113.2 PK			2.05 V	311	72.5	40.7
2	*5300.00	104.4 AV			2.05 V	311	63.7	40.7
3	10600.00	58.0 PK	74.0	-16.0	1.54 V	101	48.1	9.9
4	10600.00	45.1 AV	54.0	-8.9	1.54 V	101	35.2	9.9

Remarks:

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

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 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	108.3 PK			2.04 H	226	67.6	40.7
2	*5320.00	99.4 AV			2.04 H	226	58.7	40.7
3	5350.00	59.5 PK	74.0	-14.5	2.04 H	226	56.5	3.0
4	5350.00	49.2 AV	54.0	-4.8	2.04 H	226	46.2	3.0
5	10640.00	58.3 PK	74.0	-15.7	1.93 H	251	48.1	10.2
6	10640.00	46.3 AV	54.0	-7.7	1.93 H	251	36.1	10.2
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	*5320.00	111.8 PK			2.06 V	279	71.1	40.7
2	*5320.00	103.0 AV			2.06 V	279	62.3	40.7
3	5350.00	59.8 PK	74.0	-14.2	2.06 V	279	56.8	3.0
4	5350.00	50.2 AV	54.0	-3.8	2.06 V	279	47.2	3.0
5	10640.00	58.1 PK	74.0	-15.9	1.51 V	108	47.9	10.2
6	10640.00	45.2 AV	54.0	-8.8	1.51 V	108	35.0	10.2

Remarks:

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

RF Mode	802.11a	Channel	CH 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 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.9 PK	74.0	-13.1	2.16 H	231	57.8	3.1
2	5460.00	50.0 AV	54.0	-4.0	2.16 H	231	46.9	3.1
3	#5470.00	62.3 PK	68.2	-5.9	2.16 H	231	59.1	3.2
4	*5500.00	110.0 PK			2.16 H	231	69.0	41.0
5	*5500.00	101.2 AV			2.16 H	231	60.2	41.0
6	11000.00	58.5 PK	74.0	-15.5	1.61 H	282	48.3	10.2
7	11000.00	44.1 AV	54.0	-9.9	1.61 H	282	33.9	10.2
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	5460.00	60.9 PK	74.0	-13.1	2.04 V	303	57.8	3.1
2	5460.00	50.9 AV	54.0	-3.1	2.04 V	303	47.8	3.1
3	#5470.00	64.2 PK	68.2	-4.0	2.04 V	303	61.0	3.2
4	*5500.00	113.8 PK			2.04 V	303	72.8	41.0
5	*5500.00	105.0 AV			2.04 V	303	64.0	41.0
6	11000.00	58.3 PK	74.0	-15.7	1.58 V	115	48.1	10.2
7	11000.00	44.0 AV	54.0	-10.0	1.58 V	115	33.8	10.2

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 120 : 5600 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 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5600.00	110.3 PK			2.24 H	237	68.7	41.6
2	*5600.00	101.6 AV			2.24 H	237	60.0	41.6
3	11200.00	58.7 PK	74.0	-15.3	1.92 H	253	48.7	10.0
4	11200.00	44.4 AV	54.0	-9.6	1.92 H	253	34.4	10.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5600.00	113.9 PK			2.13 V	302	72.3	41.6
2	*5600.00	105.1 AV			2.13 V	302	63.5	41.6
3	11200.00	58.4 PK	74.0	-15.6	1.64 V	109	48.4	10.0
4	11200.00	44.2 AV	54.0	-9.8	1.64 V	109	34.2	10.0

Remarks:

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

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 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	108.6 PK			2.37 H	324	66.8	41.8
2	*5700.00	99.7 AV			2.37 H	324	57.9	41.8
3	#5725.00	62.4 PK	68.2	-5.8	2.37 H	324	58.2	4.2
4	11400.00	59.2 PK	74.0	-14.8	2.01 H	255	48.4	10.8
5	11400.00	44.9 AV	54.0	-9.1	2.01 H	255	34.1	10.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	112.4 PK			1.86 V	302	70.6	41.8
2	*5700.00	103.5 AV			1.86 V	302	61.7	41.8
3	#5725.00	64.3 PK	68.2	-3.9	1.86 V	302	60.1	4.2
4	11400.00	58.9 PK	74.0	-15.1	1.62 V	104	48.1	10.8
5	11400.00	44.6 AV	54.0	-9.4	1.62 V	104	33.8	10.8

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 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	58.4 PK	68.2	-9.8	2.34 H	320	55.2	3.2
2	*5720.00	108.0 PK			2.34 H	320	66.1	41.9
3	*5720.00	99.1 AV			2.34 H	320	57.2	41.9
4	#5725.00	59.7 PK	68.2	-8.5	2.34 H	320	55.5	4.2
5	11440.00	59.2 PK	74.0	-14.8	2.04 H	259	48.4	10.8
6	11440.00	44.9 AV	54.0	-9.1	2.04 H	259	34.1	10.8
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	#5470.00	57.6 PK	68.2	-10.6	1.96 V	302	54.4	3.2
2	*5720.00	112.2 PK			1.96 V	302	70.3	41.9
3	*5720.00	102.9 AV			1.96 V	302	61.0	41.9
4	#5725.00	58.8 PK	68.2	-9.4	1.96 V	302	54.6	4.2
5	11440.00	59.3 PK	74.0	-14.7	1.64 V	108	48.5	10.8
6	11440.00	45.2 AV	54.0	-8.8	1.64 V	108	34.4	10.8

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 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 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5621.20	60.0 PK	68.2	-8.2	2.37 H	316	56.0	4.0
2	*5745.00	107.7 PK			2.37 H	316	65.8	41.9
3	*5745.00	98.9 AV			2.37 H	316	57.0	41.9
4	#5955.60	59.4 PK	68.2	-8.8	2.37 H	316	55.0	4.4
5	11490.00	59.3 PK	74.0	-14.7	2.08 H	264	48.5	10.8
6	11490.00	45.1 AV	54.0	-8.9	2.08 H	264	34.3	10.8
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	#5621.20	59.1 PK	68.2	-9.1	1.86 V	297	55.1	4.0
2	*5745.00	111.4 PK			1.86 V	297	69.5	41.9
3	*5745.00	102.7 AV			1.86 V	297	60.8	41.9
4	#5991.60	60.1 PK	68.2	-8.1	1.86 V	297	55.6	4.5
5	11490.00	59.0 PK	74.0	-15.0	1.62 V	109	48.2	10.8
6	11490.00	44.9 AV	54.0	-9.1	1.62 V	109	34.1	10.8

Remarks:

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

RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5617.20	60.4 PK	68.2	-7.8	2.34 H	312	56.4	4.0
2	*5785.00	107.7 PK			2.34 H	312	65.6	42.1
3	*5785.00	98.8 AV			2.34 H	312	56.7	42.1
4	#5959.60	59.6 PK	68.2	-8.6	2.34 H	312	55.2	4.4
5	11570.00	59.6 PK	74.0	-14.4	2.10 H	268	48.8	10.8
6	11570.00	45.5 AV	54.0	-8.5	2.10 H	268	34.7	10.8
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	#5617.20	59.1 PK	68.2	-9.1	1.98 V	296	55.1	4.0
2	*5785.00	111.1 PK			1.98 V	296	69.0	42.1
3	*5785.00	102.4 AV			1.98 V	296	60.3	42.1
4	#5982.00	58.8 PK	68.2	-9.4	1.98 V	296	54.3	4.5
5	11570.00	59.3 PK	74.0	-14.7	1.64 V	108	48.5	10.8
6	11570.00	45.2 AV	54.0	-8.8	1.64 V	108	34.4	10.8

Remarks:

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

RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5626.00	59.7 PK	68.2	-8.5	2.38 H	301	55.7	4.0
2	*5825.00	106.8 PK			2.38 H	301	64.8	42.0
3	*5825.00	97.8 AV			2.38 H	301	55.8	42.0
4	#5940.00	59.9 PK	68.2	-8.3	2.38 H	301	55.7	4.2
5	11650.00	59.9 PK	74.0	-14.1	2.07 H	273	49.2	10.7
6	11650.00	45.7 AV	54.0	-8.3	2.07 H	273	35.0	10.7
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	#5606.40	59.6 PK	68.2	-8.6	1.97 V	296	55.6	4.0
2	*5825.00	110.4 PK			1.97 V	296	68.4	42.0
3	*5825.00	101.7 AV			1.97 V	296	59.7	42.0
4	#5992.00	59.7 PK	68.2	-8.5	1.97 V	296	55.2	4.5
5	11650.00	59.5 PK	74.0	-14.5	1.62 V	114	48.8	10.7
6	11650.00	45.4 AV	54.0	-8.6	1.62 V	114	34.7	10.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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=5.1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.3 PK	74.0	-14.7	2.02 H	248	56.2	3.1
2	5150.00	49.0 AV	54.0	-5.0	2.02 H	248	45.9	3.1
3	*5180.00	110.8 PK			2.02 H	248	70.0	40.8
4	*5180.00	99.3 AV			2.02 H	248	58.5	40.8
5	#10360.00	56.8 PK	68.2	-11.4	1.74 H	264	47.5	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.8 PK	74.0	-11.2	2.10 V	320	59.7	3.1
2	5150.00	50.5 AV	54.0	-3.5	2.10 V	320	47.4	3.1
3	*5180.00	114.3 PK			2.10 V	320	73.5	40.8
4	*5180.00	102.7 AV			2.10 V	320	61.9	40.8
5	#10360.00	56.5 PK	68.2	-11.7	1.51 V	109	47.2	9.3

Remarks:

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

RF Mode	802.11ax (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=5.1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	111.4 PK			2.04 H	249	70.6	40.8
2	*5200.00	100.2 AV			2.04 H	249	59.4	40.8
3	#10400.00	56.3 PK	68.2	-11.9	1.77 H	262	47.2	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	115.0 PK			2.10 V	320	74.2	40.8
2	*5200.00	103.7 AV			2.10 V	320	62.9	40.8
3	#10400.00	56.0 PK	68.2	-12.2	1.53 V	108	46.9	9.1

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=5.1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	112.0 PK			2.09 H	243	71.3	40.7
2	*5240.00	100.3 AV			2.09 H	243	59.6	40.7
3	5350.00	58.4 PK	74.0	-15.6	2.09 H	243	55.4	3.0
4	5350.00	47.4 AV	54.0	-6.6	2.09 H	243	44.4	3.0
5	#10480.00	56.4 PK	68.2	-11.8	1.88 H	261	46.8	9.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	114.8 PK			1.82 V	325	74.1	40.7
2	*5240.00	103.6 AV			1.82 V	325	62.9	40.7
3	5350.00	58.2 PK	74.0	-15.8	1.82 V	325	55.2	3.0
4	5350.00	46.8 AV	54.0	-7.2	1.82 V	325	43.8	3.0
5	#10480.00	56.6 PK	68.2	-11.6	1.47 V	104	47.0	9.6

Remarks:

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

RF Mode	802.11ax (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=5.1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.8 PK	74.0	-15.2	1.91 H	351	55.7	3.1
2	5150.00	47.8 AV	54.0	-6.2	1.91 H	351	44.7	3.1
3	*5260.00	112.2 PK			1.91 H	351	71.5	40.7
4	*5260.00	100.4 AV			1.91 H	351	59.7	40.7
5	#10520.00	56.6 PK	68.2	-11.6	1.84 H	258	46.9	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.8 PK	74.0	-15.2	1.91 V	306	55.7	3.1
2	5150.00	46.1 AV	54.0	-7.9	1.91 V	306	43.0	3.1
3	*5260.00	115.1 PK			1.91 V	306	74.4	40.7
4	*5260.00	103.9 AV			1.91 V	306	63.2	40.7
5	#10520.00	56.9 PK	68.2	-11.3	1.50 V	99	47.2	9.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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=5.1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	112.0 PK			2.09 H	244	71.3	40.7
2	*5300.00	100.1 AV			2.09 H	244	59.4	40.7
3	10600.00	58.1 PK	74.0	-15.9	1.87 H	263	48.2	9.9
4	10600.00	44.9 AV	54.0	-9.1	1.87 H	263	35.0	9.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	115.4 PK			2.05 V	311	74.7	40.7
2	*5300.00	103.6 AV			2.05 V	311	62.9	40.7
3	10600.00	57.8 PK	74.0	-16.2	1.54 V	101	47.9	9.9
4	10600.00	44.7 AV	54.0	-9.3	1.54 V	101	34.8	9.9

Remarks:

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

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=5.1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	110.6 PK			2.04 H	226	69.9	40.7
2	*5320.00	98.8 AV			2.04 H	226	58.1	40.7
3	5350.00	59.7 PK	74.0	-14.3	2.04 H	226	56.7	3.0
4	5350.00	48.2 AV	54.0	-5.8	2.04 H	226	45.2	3.0
5	10640.00	58.0 PK	74.0	-16.0	1.93 H	251	47.8	10.2
6	10640.00	44.7 AV	54.0	-9.3	1.93 H	251	34.5	10.2
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	*5320.00	113.8 PK			2.06 V	279	73.1	40.7
2	*5320.00	102.1 AV			2.06 V	279	61.4	40.7
3	5350.00	61.8 PK	74.0	-12.2	2.06 V	279	58.8	3.0
4	5350.00	50.0 AV	54.0	-4.0	2.06 V	279	47.0	3.0
5	10640.00	57.7 PK	74.0	-16.3	1.51 V	108	47.5	10.2
6	10640.00	44.5 AV	54.0	-9.5	1.51 V	108	34.3	10.2

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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=5.1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.2 PK	74.0	-12.8	2.16 H	231	58.1	3.1
2	5460.00	49.2 AV	54.0	-4.8	2.16 H	231	46.1	3.1
3	#5470.00	62.9 PK	68.2	-5.3	2.16 H	231	59.7	3.2
4	*5500.00	111.9 PK			2.16 H	231	70.9	41.0
5	*5500.00	100.1 AV			2.16 H	231	59.1	41.0
6	11000.00	58.0 PK	74.0	-16.0	1.61 H	282	47.8	10.2
7	11000.00	43.7 AV	54.0	-10.3	1.61 H	282	33.5	10.2
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	5460.00	63.9 PK	74.0	-10.1	2.04 V	303	60.8	3.1
2	5460.00	50.6 AV	54.0	-3.4	2.04 V	303	47.5	3.1
3	#5470.00	65.1 PK	68.2	-3.1	2.04 V	303	61.9	3.2
4	*5500.00	114.6 PK			2.04 V	303	73.6	41.0
5	*5500.00	103.7 AV			2.04 V	303	62.7	41.0
6	11000.00	57.7 PK	74.0	-16.3	1.58 V	115	47.5	10.2
7	11000.00	43.4 AV	54.0	-10.6	1.58 V	115	33.2	10.2

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 120 : 5600 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=5.1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5600.00	112.2 PK			2.24 H	237	70.6	41.6
2	*5600.00	100.8 AV			2.24 H	237	59.2	41.6
3	11200.00	58.3 PK	74.0	-15.7	1.92 H	253	48.3	10.0
4	11200.00	44.0 AV	54.0	-10.0	1.92 H	253	34.0	10.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5600.00	115.6 PK			2.13 V	302	74.0	41.6
2	*5600.00	104.3 AV			2.13 V	302	62.7	41.6
3	11200.00	58.1 PK	74.0	-15.9	1.64 V	109	48.1	10.0
4	11200.00	43.8 AV	54.0	-10.2	1.64 V	109	33.8	10.0

Remarks:

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

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=5.1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	109.0 PK			2.37 H	324	67.2	41.8
2	*5700.00	97.1 AV			2.37 H	324	55.3	41.8
3	#5725.00	61.8 PK	68.2	-6.4	2.37 H	324	57.6	4.2
4	11400.00	58.7 PK	74.0	-15.3	2.01 H	255	47.9	10.8
5	11400.00	44.3 AV	54.0	-9.7	2.01 H	255	33.5	10.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	112.3 PK			1.86 V	302	70.5	41.8
2	*5700.00	101.4 AV			1.86 V	302	59.6	41.8
3	#5725.00	64.7 PK	68.2	-3.5	1.86 V	302	60.5	4.2
4	11400.00	58.5 PK	74.0	-15.5	1.62 V	104	47.7	10.8
5	11400.00	44.0 AV	54.0	-10.0	1.62 V	104	33.2	10.8

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 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=5.1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	58.2 PK	68.2	-10.0	2.34 H	320	55.0	3.2
2	*5720.00	109.5 PK			2.34 H	320	67.6	41.9
3	*5720.00	98.5 AV			2.34 H	320	56.6	41.9
4	#5725.00	58.6 PK	68.2	-9.6	2.34 H	320	54.4	4.2
5	11440.00	59.1 PK	74.0	-14.9	2.04 H	259	48.3	10.8
6	11440.00	44.8 AV	54.0	-9.2	2.04 H	259	34.0	10.8
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	#5470.00	57.8 PK	68.2	-10.4	1.96 V	302	54.6	3.2
2	*5720.00	113.6 PK			1.96 V	302	71.7	41.9
3	*5720.00	101.9 AV			1.96 V	302	60.0	41.9
4	#5725.00	59.7 PK	68.2	-8.5	1.96 V	302	55.5	4.2
5	11440.00	59.0 PK	74.0	-15.0	1.64 V	108	48.2	10.8
6	11440.00	44.7 AV	54.0	-9.3	1.64 V	108	33.9	10.8

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 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=5.1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.40	59.1 PK	68.2	-9.1	2.37 H	316	55.0	4.1
2	*5745.00	110.4 PK			2.37 H	316	68.5	41.9
3	*5745.00	98.8 AV			2.37 H	316	56.9	41.9
4	#5994.00	59.8 PK	68.2	-8.4	2.37 H	316	55.3	4.5
5	11490.00	59.1 PK	74.0	-14.9	2.08 H	264	48.3	10.8
6	11490.00	44.7 AV	54.0	-9.3	2.08 H	264	33.9	10.8
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	#5610.80	59.0 PK	68.2	-9.2	1.86 V	297	55.0	4.0
2	*5745.00	113.6 PK			1.86 V	297	71.7	41.9
3	*5745.00	102.2 AV			1.86 V	297	60.3	41.9
4	#5971.20	59.6 PK	68.2	-8.6	1.86 V	297	55.2	4.4
5	11490.00	58.8 PK	74.0	-15.2	1.62 V	109	48.0	10.8
6	11490.00	44.5 AV	54.0	-9.5	1.62 V	109	33.7	10.8

Remarks:

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

RF Mode	802.11ax (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=5.1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5609.60	59.5 PK	68.2	-8.7	2.34 H	312	55.5	4.0
2	*5785.00	110.5 PK			2.34 H	312	68.4	42.1
3	*5785.00	98.8 AV			2.34 H	312	56.7	42.1
4	#5996.40	59.4 PK	68.2	-8.8	2.34 H	312	54.9	4.5
5	11570.00	59.1 PK	74.0	-14.9	2.10 H	268	48.3	10.8
6	11570.00	45.0 AV	54.0	-9.0	2.10 H	268	34.2	10.8
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	#5637.20	59.8 PK	68.2	-8.4	1.98 V	296	55.7	4.1
2	*5785.00	113.7 PK			1.98 V	296	71.6	42.1
3	*5785.00	102.1 AV			1.98 V	296	60.0	42.1
4	#5992.00	59.5 PK	68.2	-8.7	1.98 V	296	55.0	4.5
5	11570.00	58.9 PK	74.0	-15.1	1.64 V	108	48.1	10.8
6	11570.00	44.7 AV	54.0	-9.3	1.64 V	108	33.9	10.8

Remarks:

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

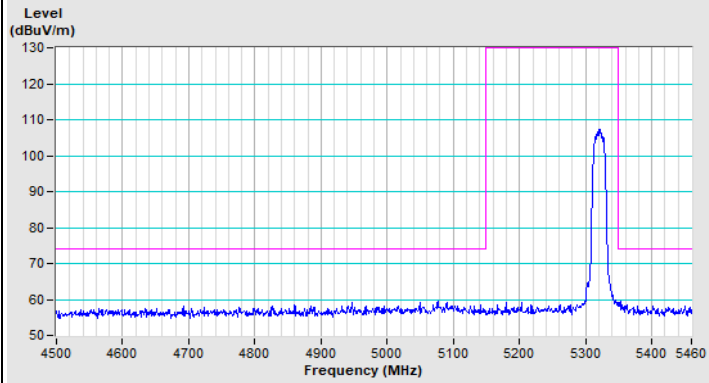
RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=5.1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5629.20	59.4 PK	68.2	-8.8	2.38 H	301	55.4	4.0
2	*5825.00	109.0 PK			2.38 H	301	67.0	42.0
3	*5825.00	96.9 AV			2.38 H	301	54.9	42.0
4	#5966.80	59.2 PK	68.2	-9.0	2.38 H	301	54.8	4.4
5	11650.00	59.5 PK	74.0	-14.5	2.07 H	273	48.8	10.7
6	11650.00	45.2 AV	54.0	-8.8	2.07 H	273	34.5	10.7
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	#5627.20	60.2 PK	68.2	-8.0	1.97 V	296	56.2	4.0
2	*5825.00	112.6 PK			1.97 V	296	70.6	42.0
3	*5825.00	101.1 AV			1.97 V	296	59.1	42.0
4	#5976.80	59.9 PK	68.2	-8.3	1.97 V	296	55.5	4.4
5	11650.00	59.1 PK	74.0	-14.9	1.62 V	114	48.4	10.7
6	11650.00	44.9 AV	54.0	-9.1	1.62 V	114	34.2	10.7

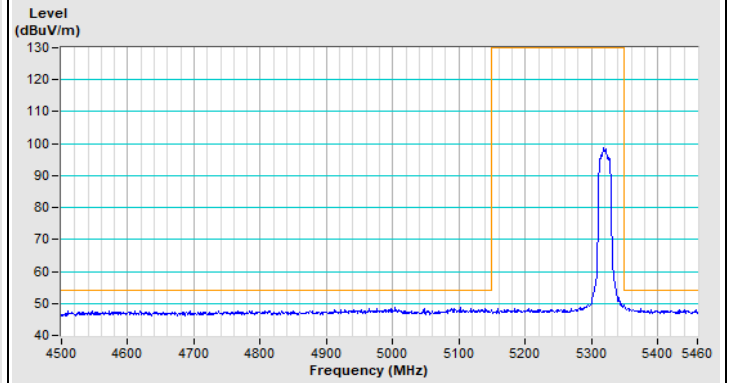
Remarks:

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.

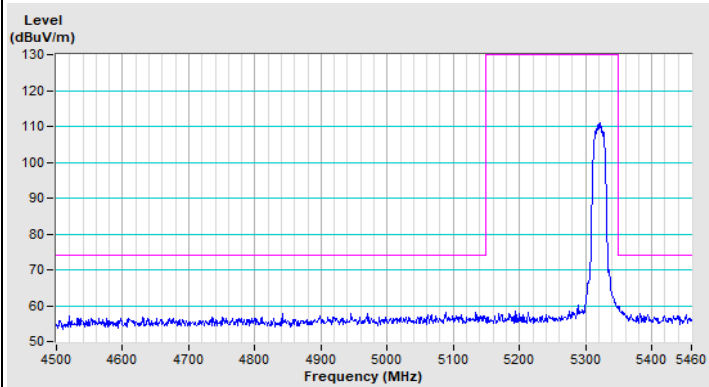
802.11a Channel 64



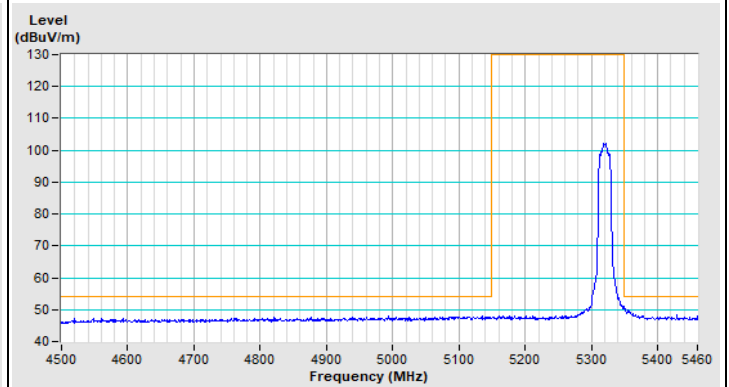
Horizontal (Peak)



Horizontal (Average)



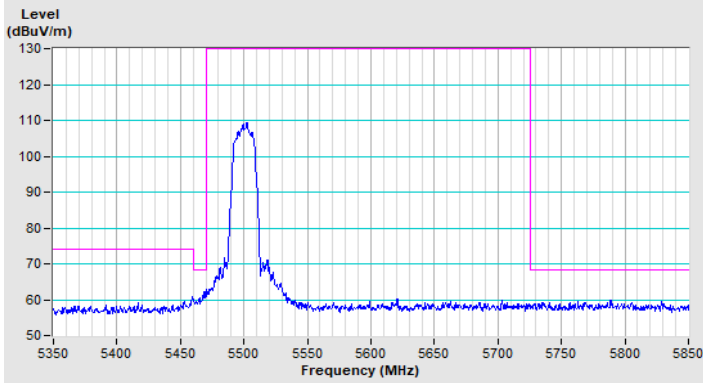
Vertical (Peak)



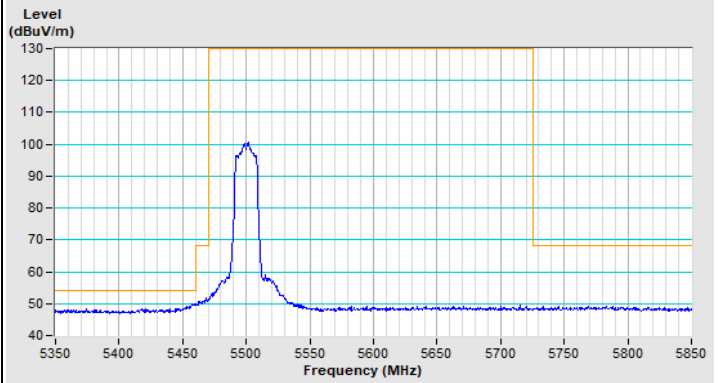
Vertical (Average)

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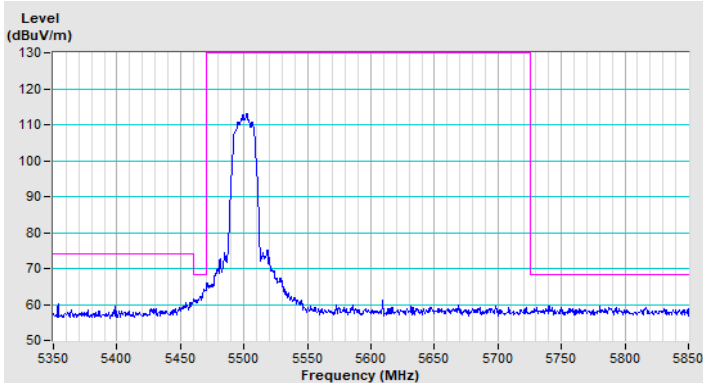
802.11a Channel 100



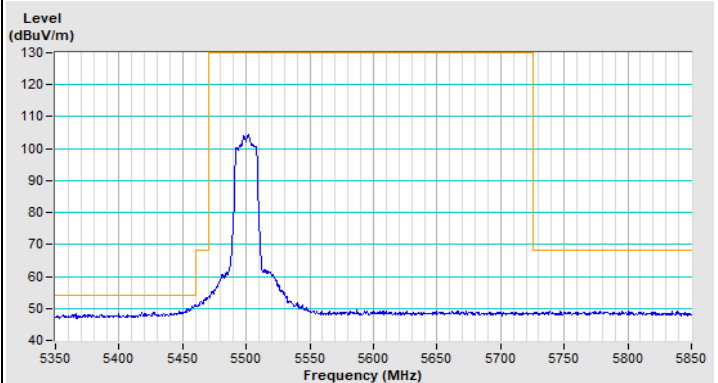
Horizontal (Peak)



Horizontal (Average)

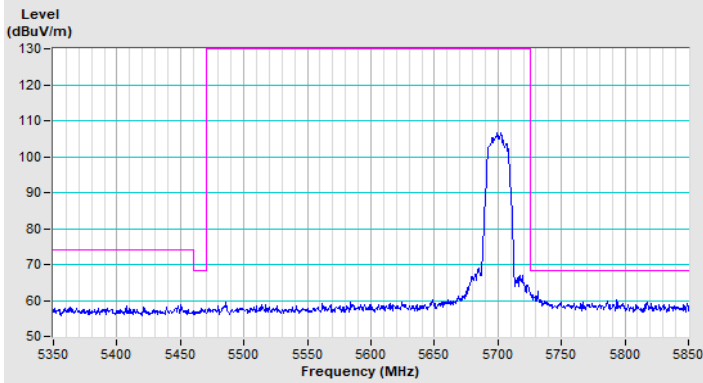


Vertical (Peak)

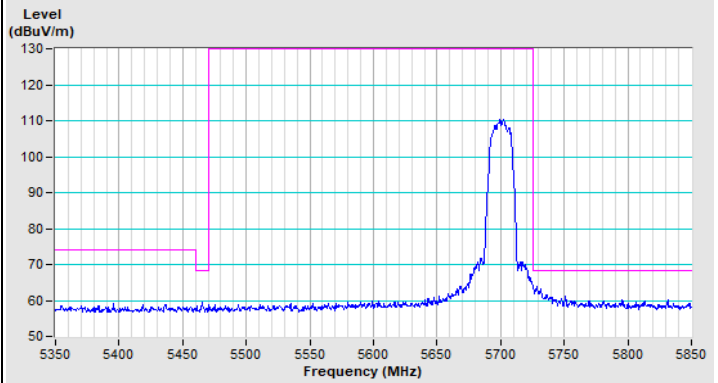


Vertical (Average)

802.11a Channel 140



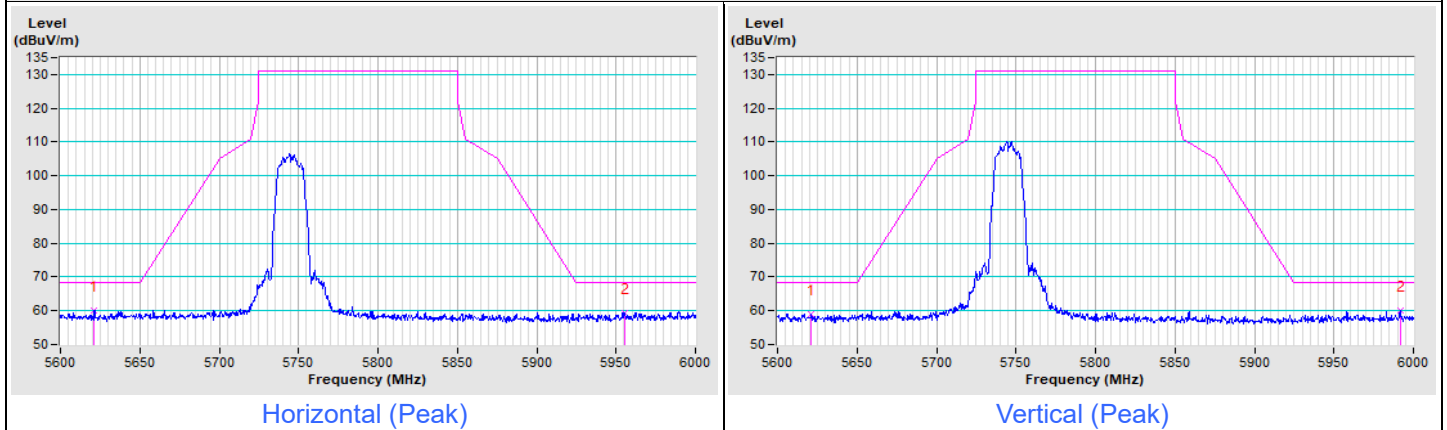
Horizontal (Peak)



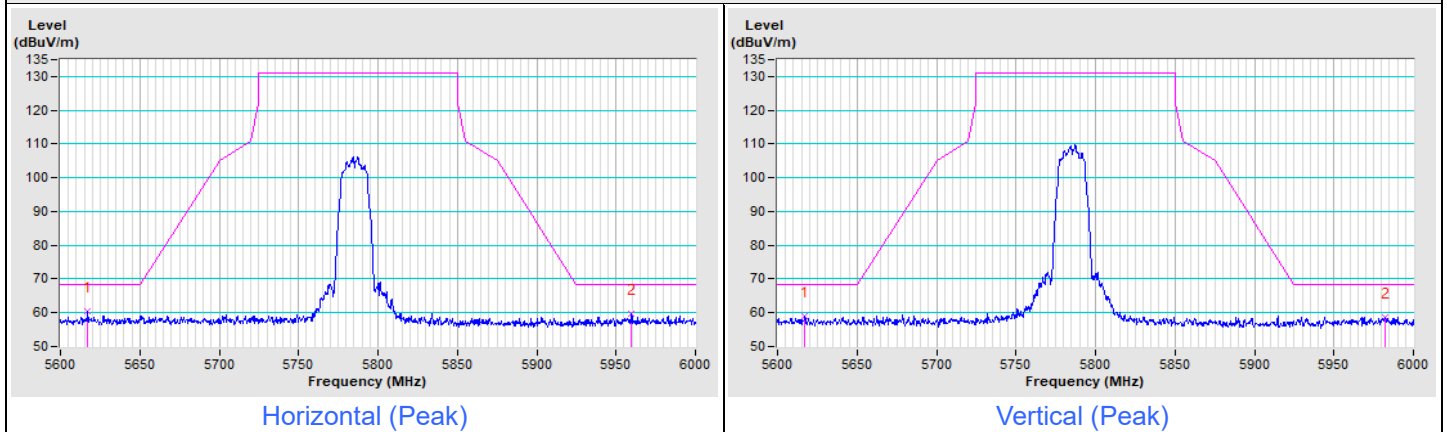
Vertical (Peak)

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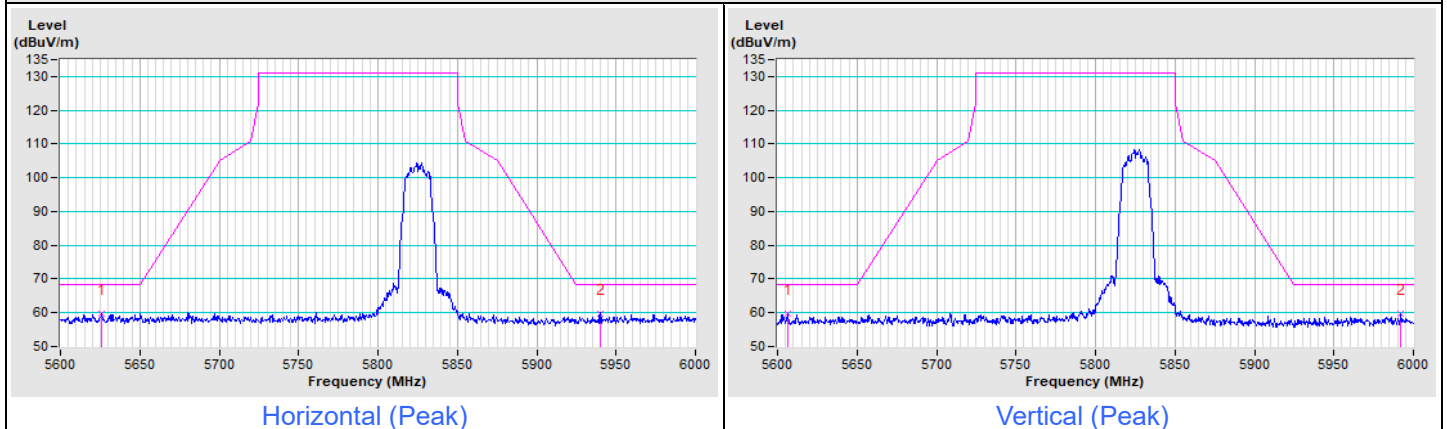
802.11a Channel 149



802.11a Channel 157

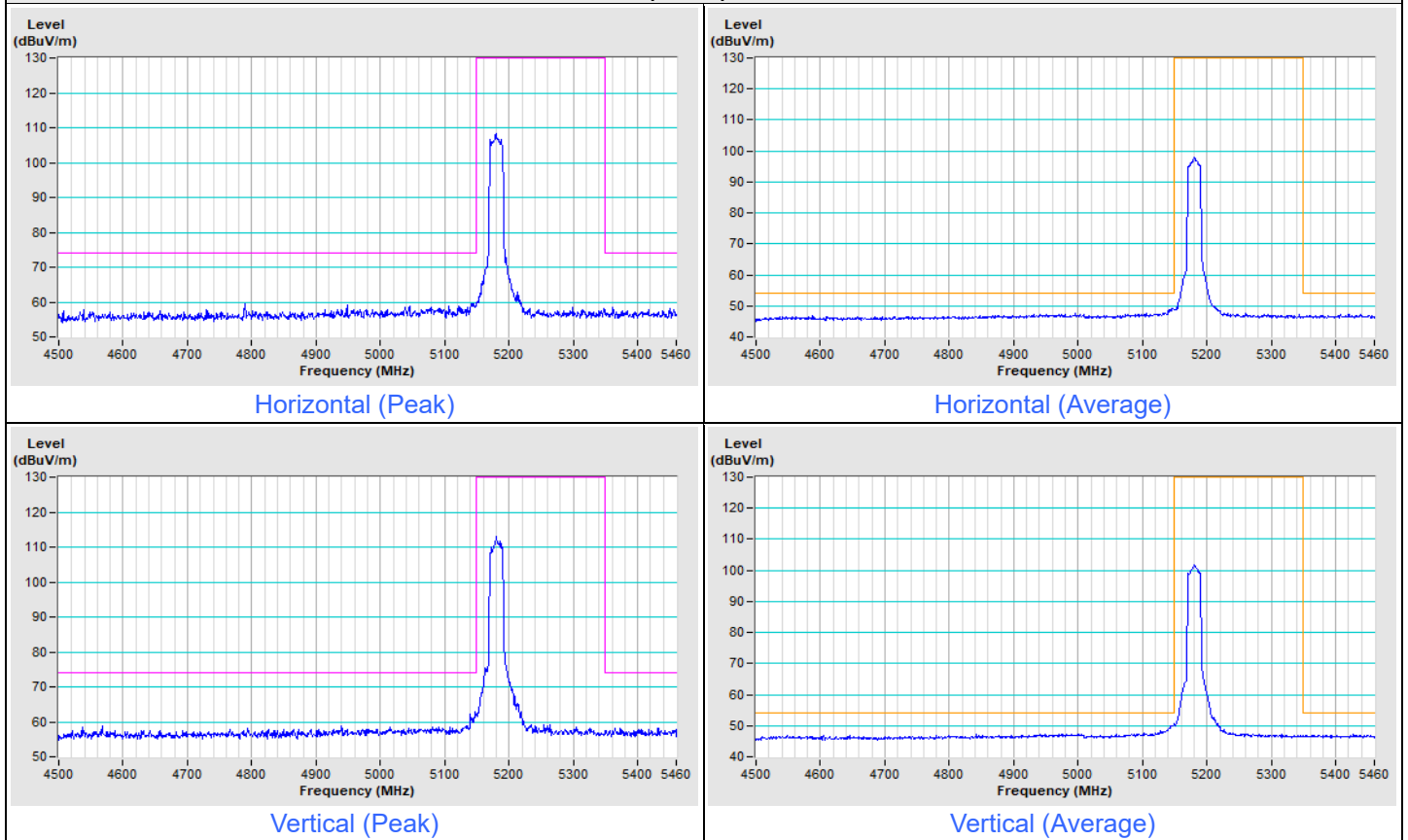


802.11a Channel 165

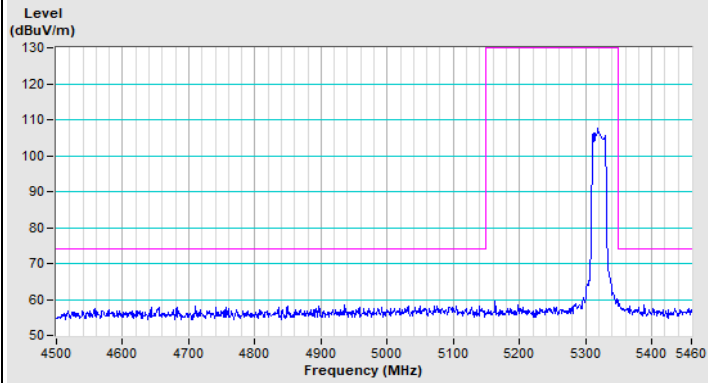


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=5.1 kHz, DET=Peak
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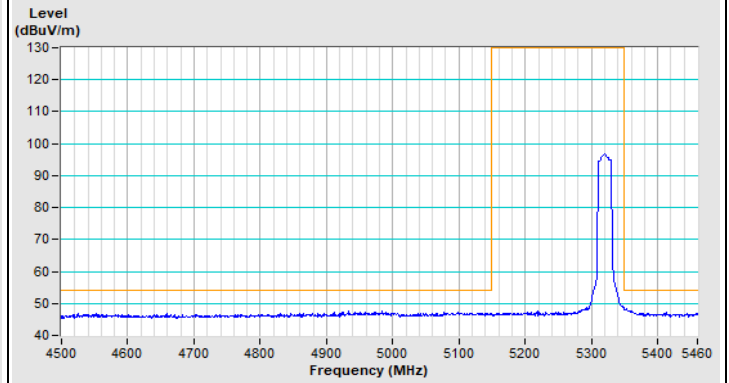
802.11ax (HE20) Channel 36



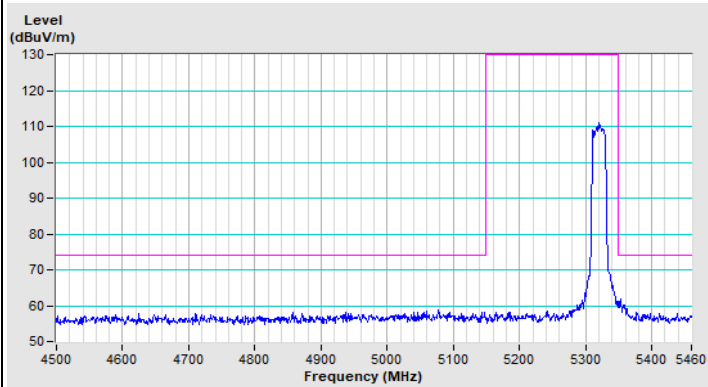
802.11ax (HE20) Channel 64



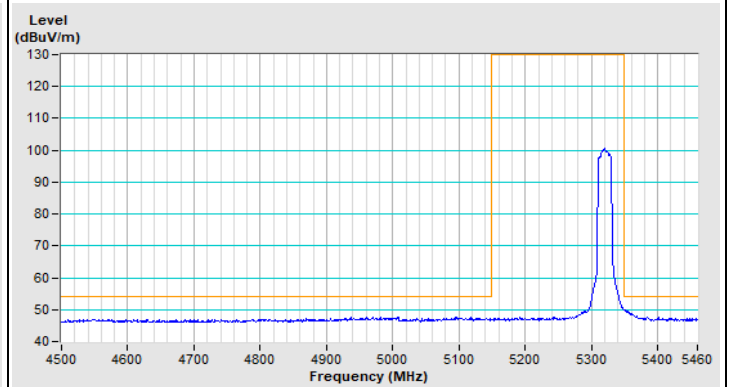
Horizontal (Peak)



Horizontal (Average)



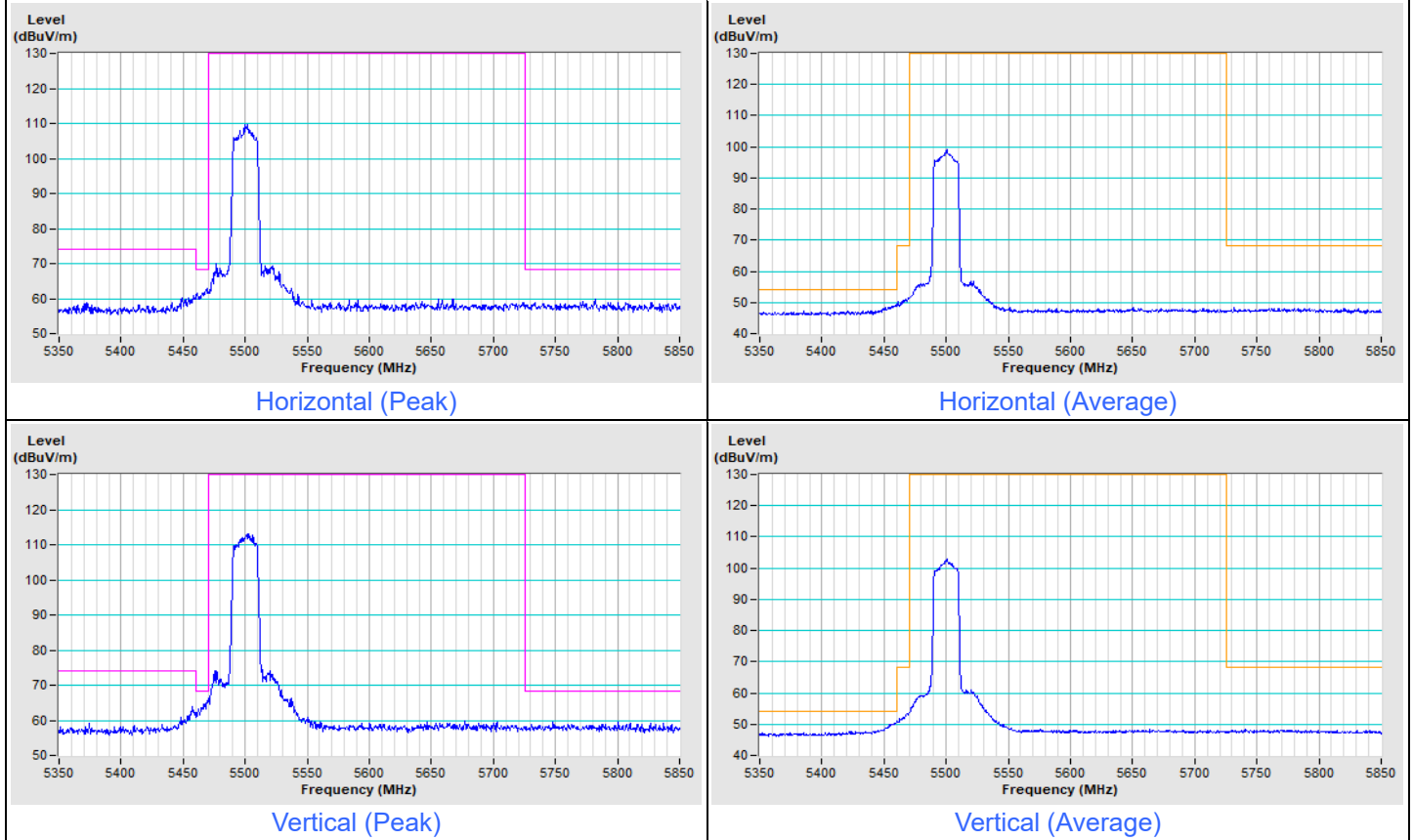
Vertical (Peak)



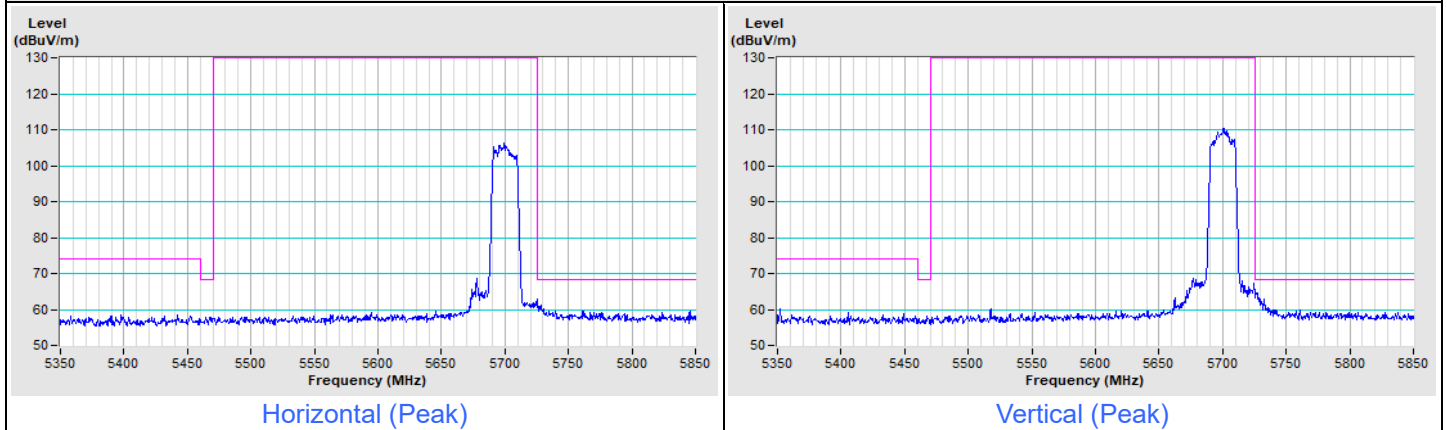
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=5.1 kHz, DET=Peak
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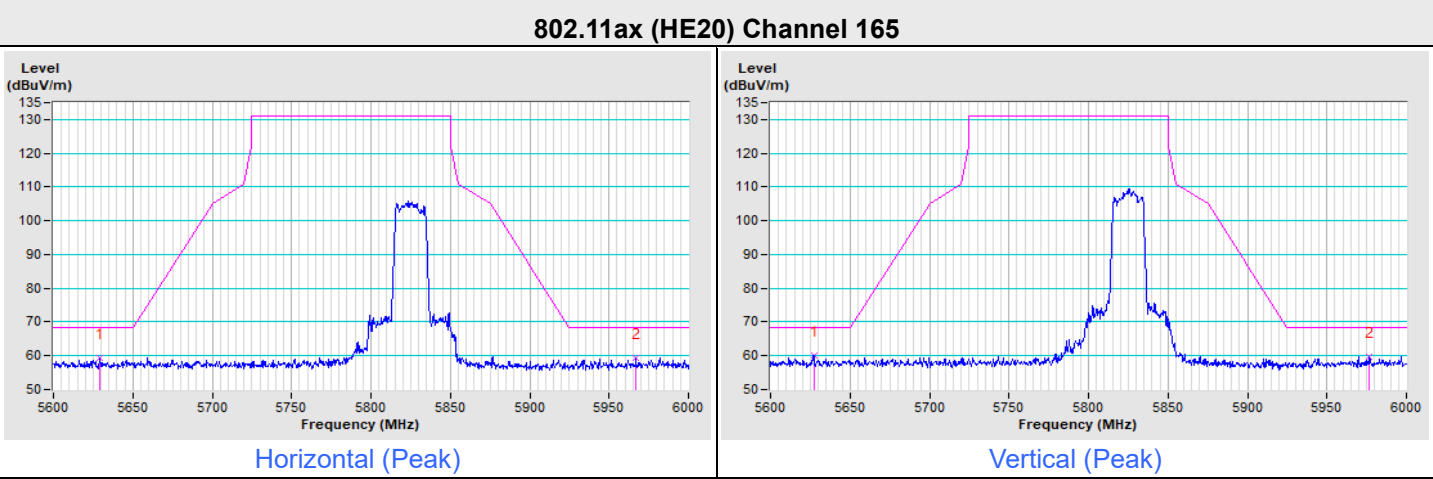
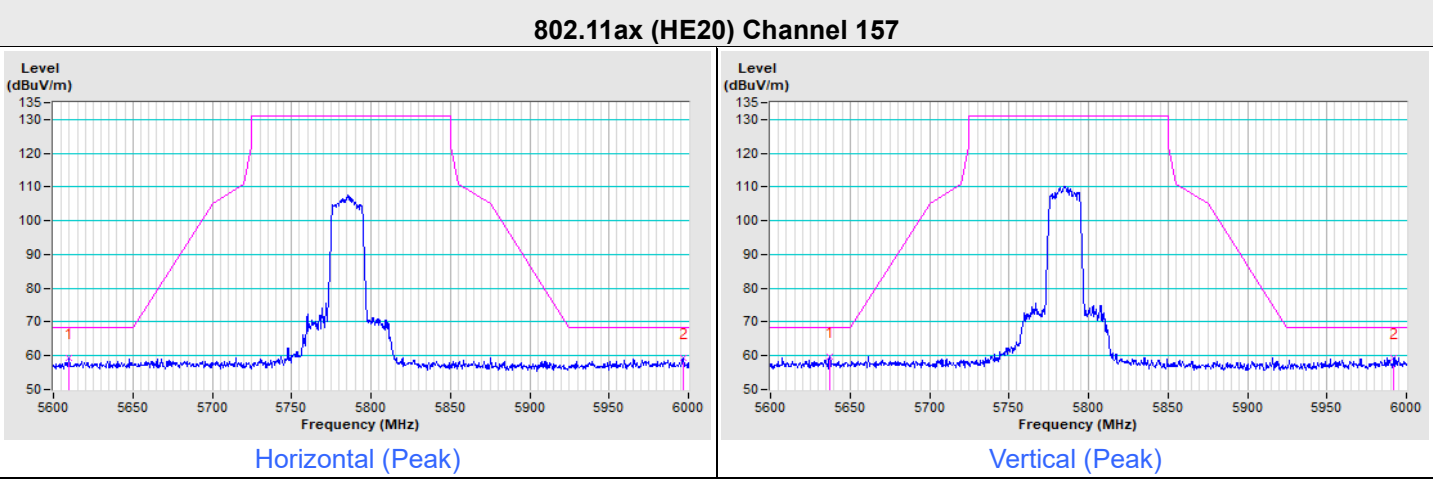
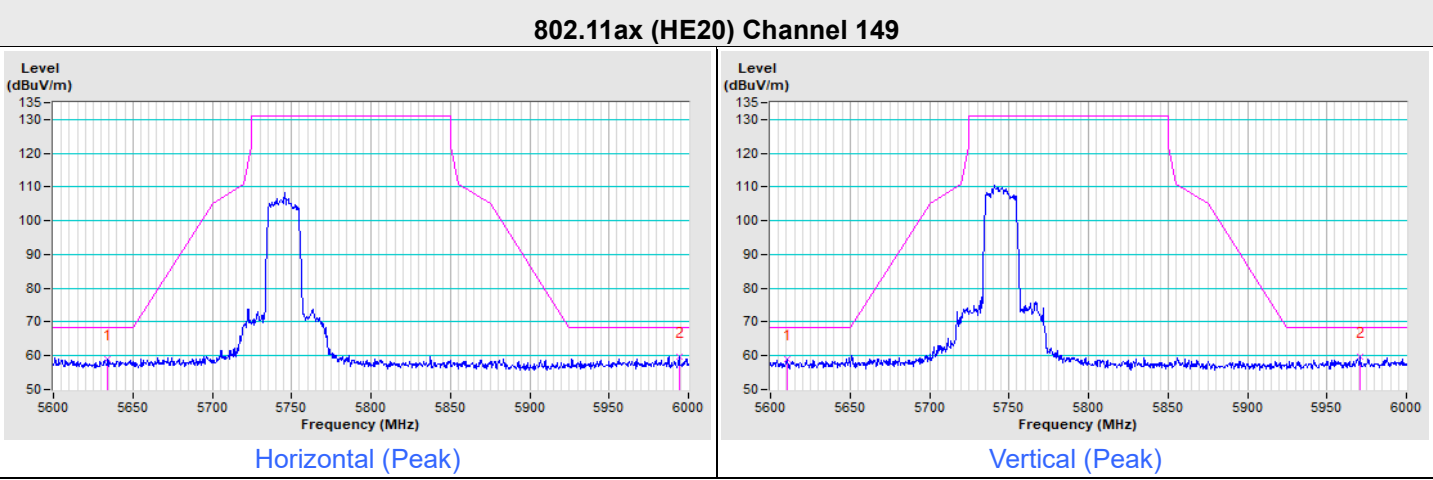
802.11ax (HE20) Channel 100



802.11ax (HE20) Channel 140



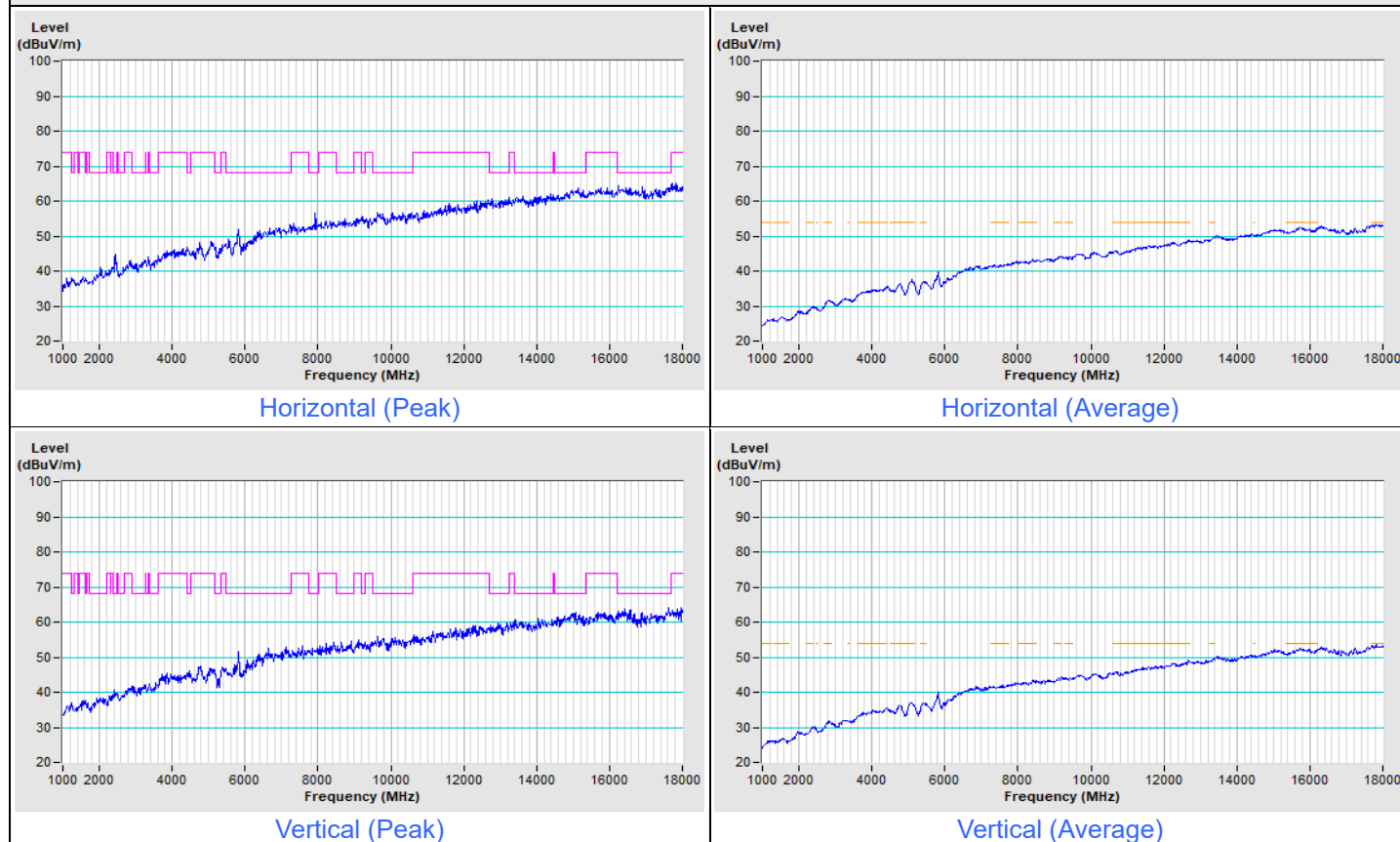
Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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Plot of Other Emission

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
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802.11a Channel 36

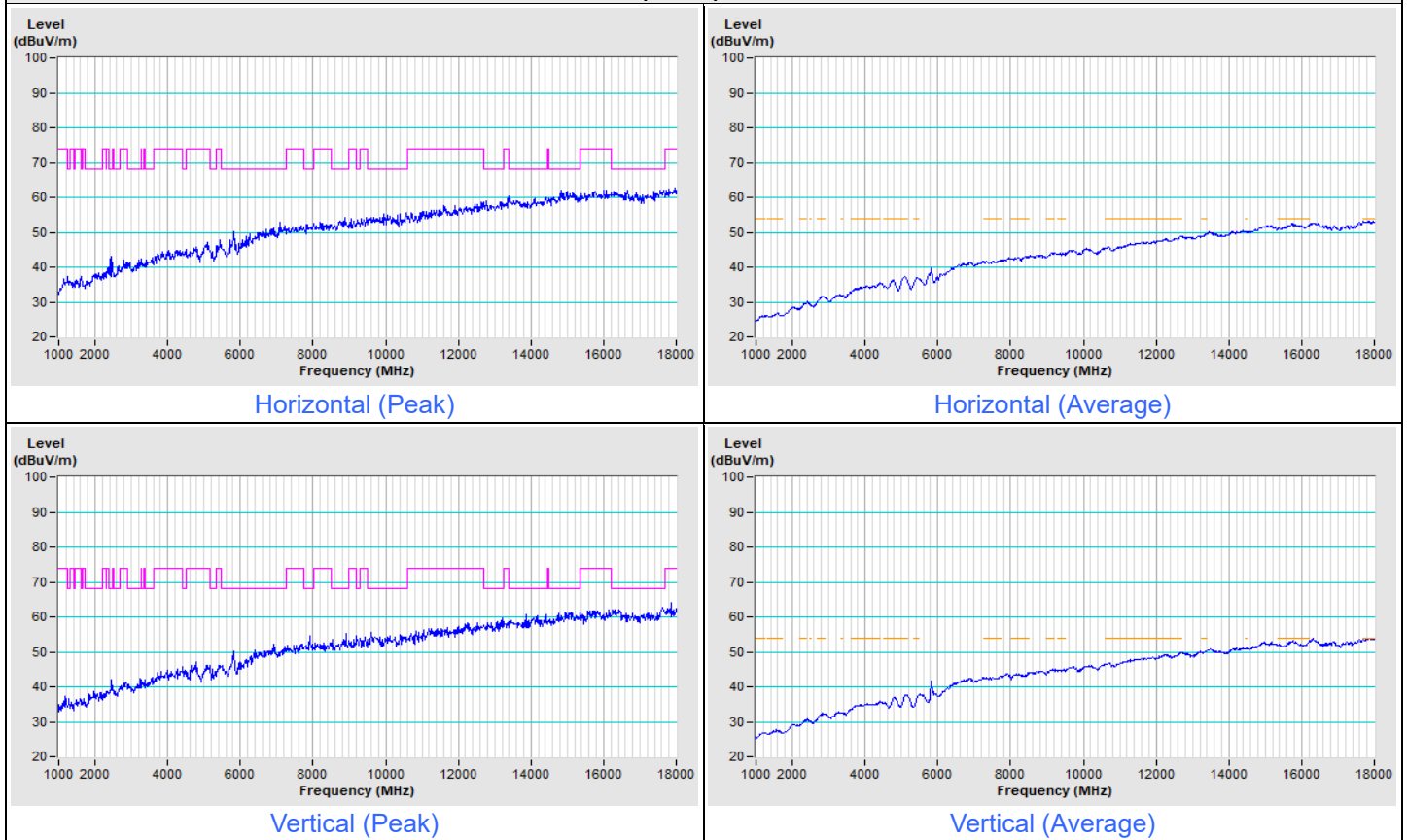


Notes:

- For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
- The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=5.1 kHz, DET=Peak
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802.11ax (HE20) Channel 100



Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

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:

Lin Kou EMC/RF Lab

Tel: 886-(0)2-26052180

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-(0)3-6668565 (SIP)

Tel: 886-(0)3-5120595 (WD)

Hwa Ya EMC/RF/Safety/SAR Lab & Wenming EMC/RF Lab

Tel: 886-(0)3-3183232

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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