

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBEIH-WTW-P22120764-1

FCC ID: P27IP6442B

Product: WiFi 6E Router

Brand: Charter Spectrum

Model No.: SAX2V1R

Received Date: 2023/2/20

Test Date: 2023/3/2 ~ 2023/4/6

Issued Date: 2023/4/25

Applicant: Sercomm Corporation

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

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FCC Registration / 198487 / TW2021

Designation Number:

Approved by:

Jeremy Lin

Jeremy Lin / Project Engineer

, Date:

2023/4/25

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Prepared by : Annie Chang / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBEIH-WTW-P22120764-1	Original release.	2023/4/25

1 Certificate

Product: WiFi 6E Router

Brand: Charter Spectrum

Test Model: SAX2V1R

Sample Status: Engineering sample

Applicant: Sercomm Corporation

Test Date: 2023/3/2 ~ 2023/4/6

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

Measurement ANSI C63.10-2013

procedure: KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	Pass	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -14.77 dB at 0.15770 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -6.4 dB at 44.99 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.2 dB at 5150.00, 5350.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex not a standard connector.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	150 kHz ~ 30 MHz	3.00 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.38 dB
	30 MHz ~ 1 GHz	5.7 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 6 GHz	4.83 dB
	6 GHz ~ 18 GHz	5.37 dB
	18 GHz ~ 40 GHz	5.24 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	WiFi 6E Router
Brand	Charter Spectrum
Test Model	SAX2V1R
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from Adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 4803.9 Mbps
Operating Frequency	5.18 GHz ~ 5.25 GHz 5.25 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):25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):12 802.11ac (VHT80), 802.11ax (HE80):6 802.11ac (VHT160), 802.11ax (HE160):2
Output Power	5.18 GHz ~ 5.25 GHz : 710.546 mW (28.52 dBm) 5.25 GHz ~ 5.32 GHz : 207.587 mW (23.17 dBm) 5.5 GHz ~ 5.72 GHz : 204.109 mW (23.1 dBm) 5.745 GHz ~ 5.825 GHz : 810.227 mW (29.09 dBm)
EUT Category	Indoor Access Point

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
Adapter 1	Netbit	NBS36J120300VU	AC Input : 100-120V, 50/60Hz, 1.0A DC Output : 12.0V, 3.0A DC Output Cable : non-shielded, 1.8m
Adapter 2	Delta	ADH-36L WB	AC Input : 100-120V, 50/60Hz, 1.0A DC Output : 12.0V, 3.0A DC Output Cable : non-shielded, 1.8m
Adapter 3	Challenger	PS-2.5-12-3WT3	AC Input : 100-120V, 50/60Hz, 1.0A DC Output : 12.0V, 3.0A DC Output Cable : non-shielded, 1.8m
LAN cable	-	-	Non-shielded 1m

The above adapters were pre-tested and **Adapter 1** was the worst case for final test.

2. There are Bluetooth, Thread and WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.

3. WLAN 2.4 GHz & WLAN 5.9 GHz & WLAN 6 GHz & Bluetooth & Thread technology can transmit at same time.

WLAN 2.4 GHz & WLAN 5 GHz & WLAN 6 GHz & Bluetooth & Thread technology can transmit at same time.

4. The EUT does not support Partial RU technology.

5. The EUT has two groups for test as below:

Group 1	Group 2
2.5G_A0, 2.5G_A2, 5.6G_A2-1, 5.6G_A3-1	2.5G_A1, 2.5G_A3, 5.6G_A2-2, 5.6G_A3-2

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	Gain (dBi)	Antenna Type	Connector Type
2.5G_A0	6.7	PCB	ipex(MHF)
2.5G_A1	6.0		
2.5G_A2	5.4		
2.5G_A3	5.3		
5.6G_A2-1	5.1		
5.6G_A2-2	4.9		
5.6G_A3-1	5.5		
5.6G_A3-2	4.3		

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

2. The EUT incorporates a MIMO function:

Modulation Mode	CDD Mode	Beamforming Mode	TX & RX Configuration	
802.11a	Support	Not Support	4TX	4RX
802.11n (HT20)	Support	Support	4TX	4RX
802.11n (HT40)	Support	Support	4TX	4RX
802.11ac (VHT20)	Support	Support	4TX	4RX
802.11ac (VHT40)	Support	Support	4TX	4RX
802.11ac (VHT80)	Support	Support	4TX	4RX
802.11ac (VHT160)	Support	Support	4TX	4RX
802.11ax (HE20)	Support	Support	4TX	4RX
802.11ax (HE40)	Support	Support	4TX	4RX
802.11ax (HE80)	Support	Support	4TX	4RX
802.11ax (HE160)	Support	Support	4TX	4RX

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

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

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720 MHz

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

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

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

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

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

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

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

Channel	Frequency
114	5570 MHz

FOR 5745 ~ 5825 MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1.EUT antenna has two configurations 5G group1/ 5G group2, Pre-scan 5G group1/ 5G group2 and find the worst case as a representative test condition.
Worst Case:	1.5G group1/ 5G group2 Worst Condition: 5G group1 is the worse case.

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

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	A	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
		802.11ax (HE20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
		802.11ax (HE40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0
		802.11ax (HE80)	CDD	58, 106, 122, 138	BPSK	MCS0
		802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
RF Output Power	A	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD & Beamforming	50, 114	BPSK	MCS0
Power Spectral Density	A	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	50, 114	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
6 dB Bandwidth	A	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	138, 155	BPSK	MCS0
Occupied Bandwidth	A	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
Frequency Stability	A	802.11a	-	36	unmodulated	-
AC Power Conducted Emissions	-	802.11ax (HE40)	-	159	BPSK	MCS0
Unwanted Emissions below 1 GHz	-	802.11ax (HE40)	-	159	BPSK	MCS0
Unwanted Emissions above 1 GHz	A, B	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD & Beamforming	50, 114	BPSK	MCS0
EUT Configure Mode:	A	5G group1				
	B	5G group2				

3.5 Duty Cycle of Test Signal

Mode A_CDD

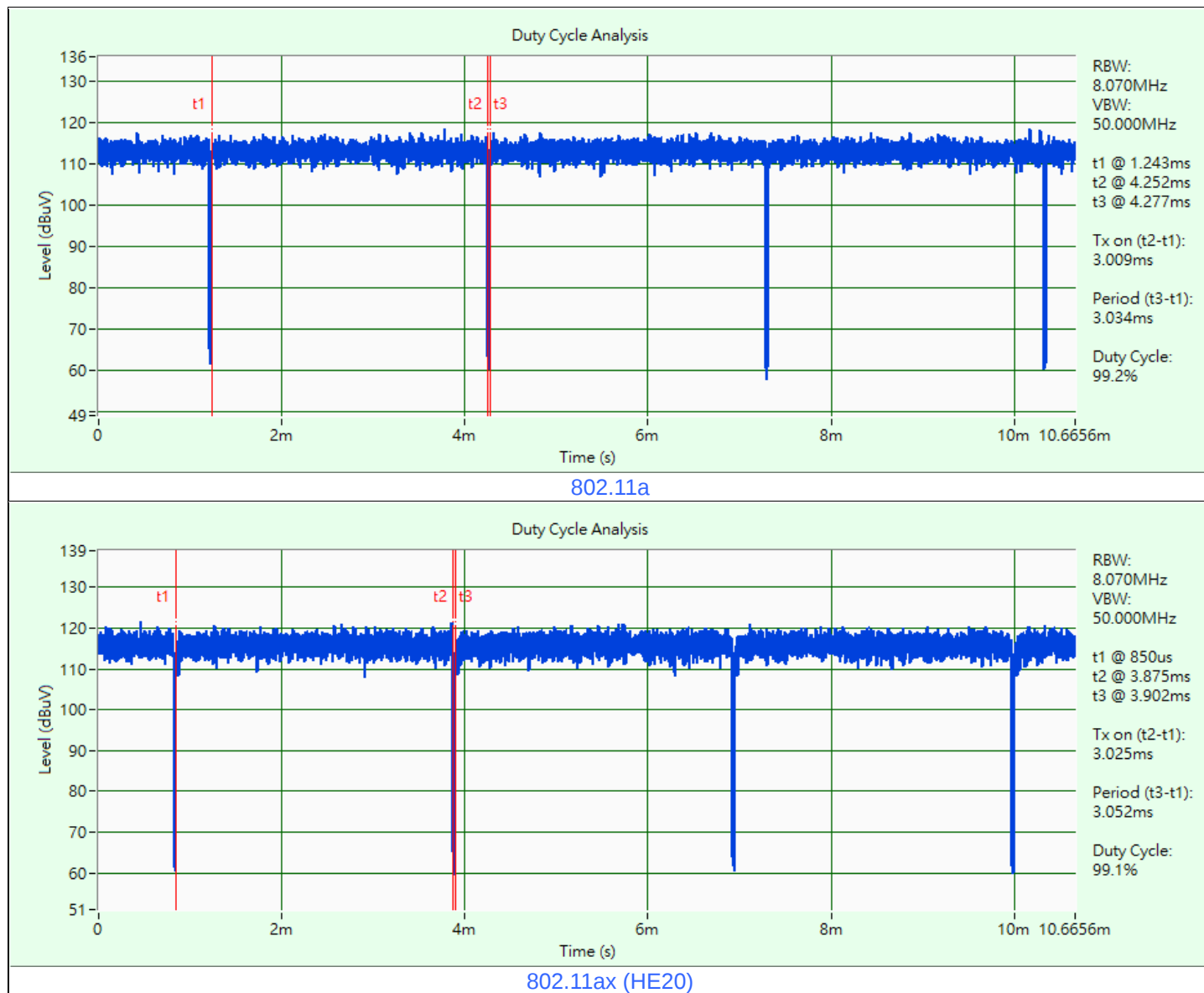
802.11a: Duty cycle = 3.009 ms / 3.034 ms x 100% = 99.2%

802.11ax (HE20): Duty cycle = 3.025 ms / 3.052 ms x 100% = 99.1%

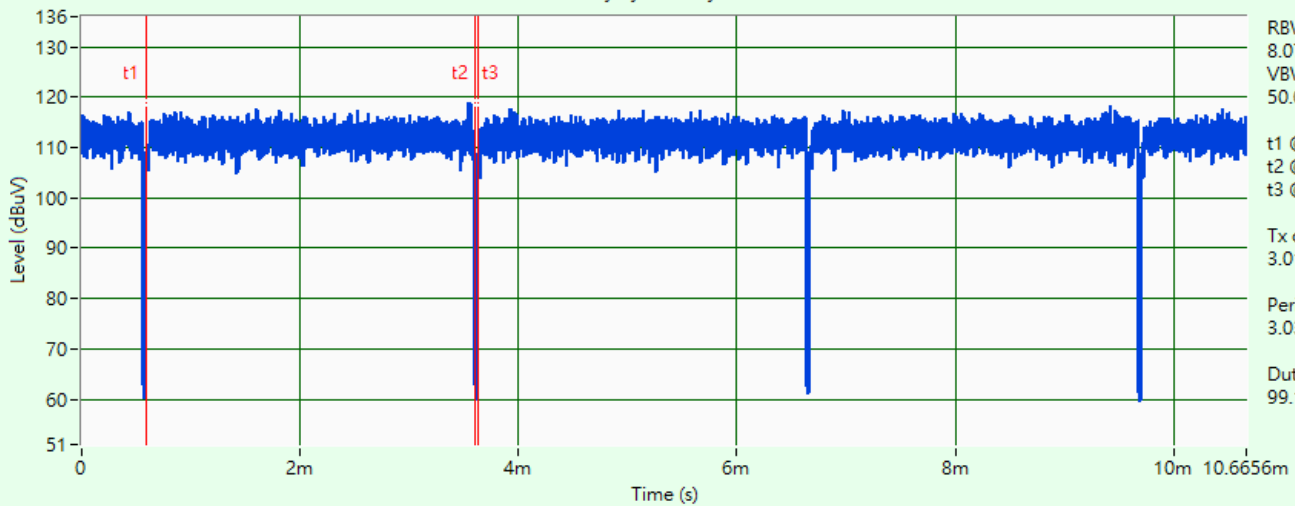
802.11ax (HE40): Duty cycle = 3.011 ms / 3.037 ms x 100% = 99.1%

802.11ax (HE80): Duty cycle = 2.998 ms / 3.024 ms x 100% = 99.1%

802.11ax (HE160): Duty cycle = 2.999 ms / 3.025 ms x 100% = 99.1%

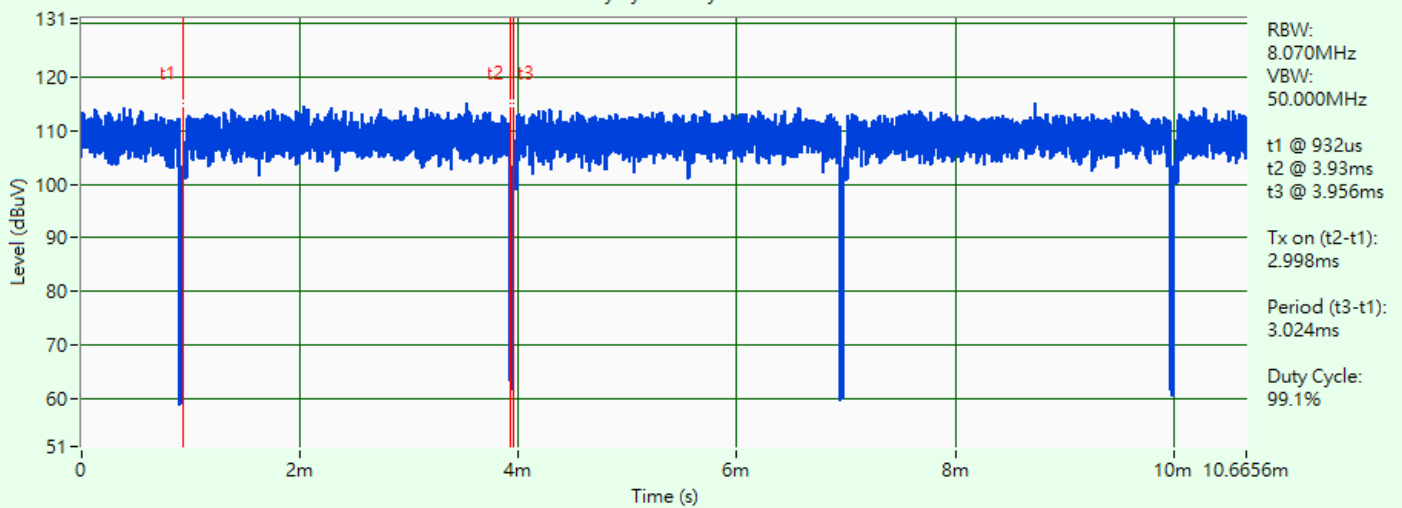


Duty Cycle Analysis



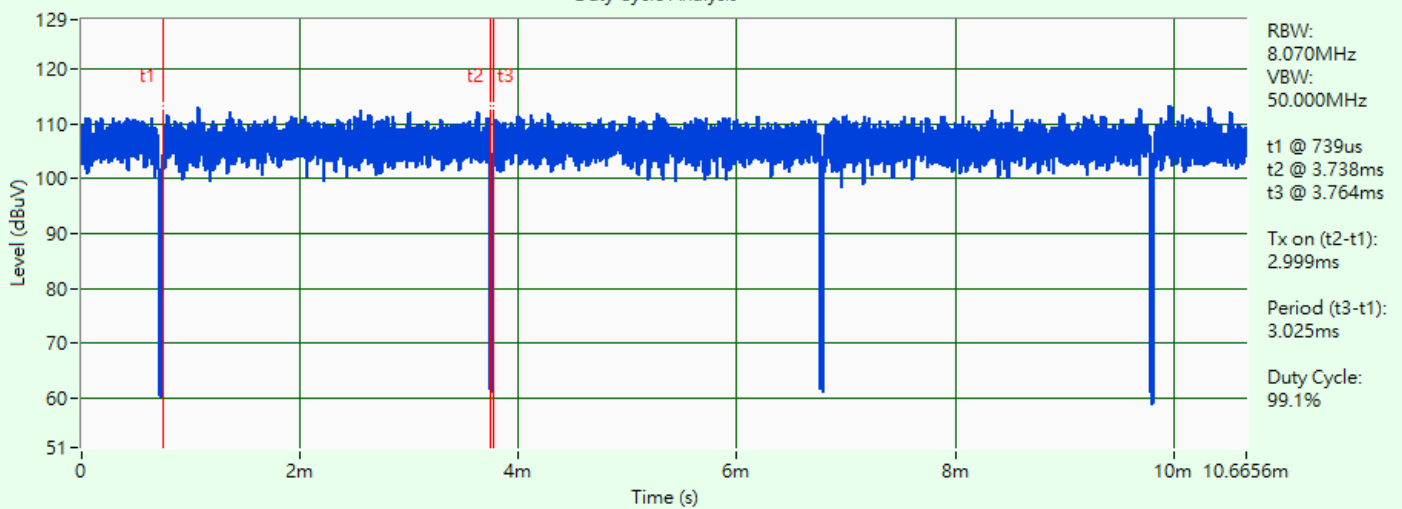
802.11ax (HE40)

Duty Cycle Analysis



802.11ax (HE80)

Duty Cycle Analysis

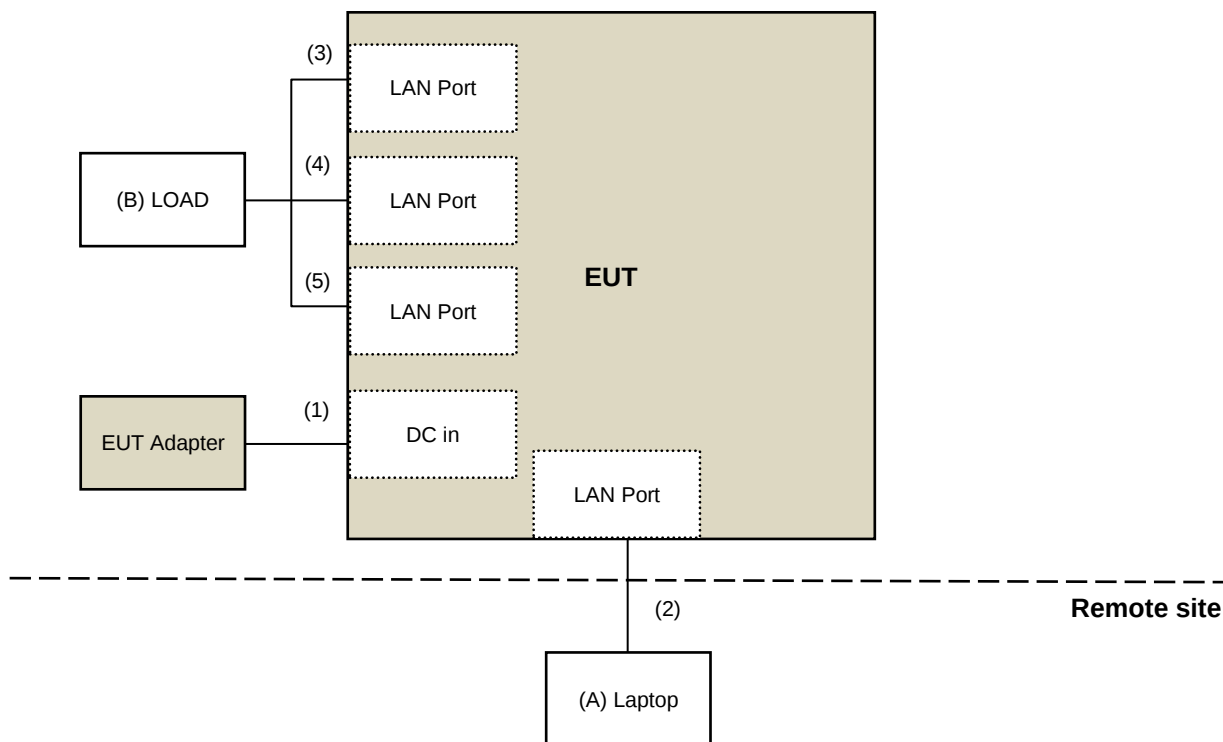


802.11ax (HE160)

3.6 Test Program Used and Operation Descriptions

Controlling software (accessMTool_3_3_0_1) 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	Laptop	Lenovo	80WG	YD01YRC9	N/A	Provided by Lab
B	LOAD	N/A	N/A	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC cable	1	1.8	N	0	Supplied by applicant
2	LAN Cable	1	10	N	0	Provided by Lab
3	LAN Cable	1	0.9	N	0	Provided by Lab
4	LAN Cable	1	0.9	N	0	Provided by Lab
5	LAN Cable	1	0.9	N	0	Provided by Lab

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
MIMO Power measurement Test set (4X4) KEYSIGHT	U2021XA	U2021XA_001	2022/6/13	2023/6/12
MXG Vector Signal Generator KEYSIGHT	N5182B	MY53052658	2022/5/9	2023/5/8
Peak Power meter Anritsu	ML2495A	0842014	2022/4/27	2023/4/26
Pulse Power Sensor Anritsu	MA2411B	0738404	2022/4/27	2023/4/26
Spectrum Analyzer KEYSIGHT	N9030A	MY54490260	2022/7/14	2023/7/13
Spectrum Analyzer R&S	FSV40	101042	2022/9/5	2023/9/4
		101544	2022/5/9	2023/5/8
Temperature & Humidity Chamber TERCHY	MHU-225AU	920409	2022/6/27	2023/6/26
Voltage Meter FLUKE	179	89610322	2022/10/3	2023/10/2

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2023/3/17

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
MIMO Power measurement Test set (4X4) KEYSIGHT	U2021XA	U2021XA_001	2022/6/13	2023/6/12
MXG Vector Signal Generator KEYSIGHT	N5182B	MY53052658	2022/5/9	2023/5/8
Peak Power meter Anritsu	ML2495A	0842014	2022/4/27	2023/4/26
Pulse Power Sensor Anritsu	MA2411B	0738404	2022/4/27	2023/4/26
Spectrum Analyzer KEYSIGHT	N9030A	MY54490260	2022/7/14	2023/7/13
Spectrum Analyzer R&S	FSV40	101042	2022/9/5	2023/9/4
		101544	2022/5/9	2023/5/8
Temperature & Humidity Chamber TERCHY	MHU-225AU	920409	2022/6/27	2023/6/26
Voltage Meter FLUKE	179	89610322	2022/10/3	2023/10/2

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2023/3/17 ~ 2023/3/28

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Refer to section 4.1 to get information of the instruments.

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal LYNICS	0900510	E1-011285	2022/9/19	2023/9/18
		E1-011286	2022/9/19	2023/9/18
50 Ohms Terminator LYNICS	0900510	E1-01-305	2023/2/13	2024/2/12
Attenuator STI	STI02-2200-10	NO.4	2022/9/2	2023/9/1
DC LISN R&S	ESH3-Z6	100219	2022/8/2	2023/8/1
		844950/018	2022/8/2	2023/8/1
DC LISN Schwarzbeck	NNLK 8121	8121-808	2022/4/29	2023/4/28
High Voltage Probe Schwarzbeck	TK9420	00982	2022/12/14	2023/12/13
Isolation Transformer Erika Fiedler	D-65396	017	2022/9/8	2023/9/7
LISN R&S	ENV216	101196	2022/5/24	2023/5/23
LISN Schwarzbeck	NNLK 8121	8121-731	2022/5/26	2023/5/25
		8121-00759	2022/8/18	2023/8/17
	NNLK8129	8129229	2022/6/8	2023/6/7
	NSLK 8128	8128-244	2022/11/8	2023/11/7
RF Coaxial Cable Commate	5D-FB	Cable-CO5-01	2023/1/19	2024/1/18
Software BVADT	Cond_V7.3.7.4	N/A	N/A	N/A
Test Receiver R&S	ESR3	102412	2022/12/21	2023/12/20

Notes:

1. The test was performed in Linkou Conduction 5.
2. Tested Date: 2023/3/15

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
* LOOP ANTENNA EMCI	LPA600	270	2021/9/2	2023/9/1
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2022/10/21	2023/10/20
Coupling/Dcoupling Network Schwarzbeck	CDNE-M2	00097	2022/6/1	2023/5/31
	CDNE-M3	00091	2022/6/1	2023/5/31
Pre_Amplifier EMCI	EMC001340	980269	2022/6/28	2023/6/27
Pre_Amplifier HP	8447D	2432A03504	2023/2/16	2024/2/15
RF Coaxial Cable Pacific	8D-FB	Cable-CH6-02	2022/6/30	2023/6/29
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A
	Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101544	2022/5/9	2023/5/8
Test Receiver Agilent	N9038A	MY51210129	2022/4/8	2023/4/7
		MY51210137	2022/6/9	2023/6/8
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

- * The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA
- The test was performed in Linkou 966 Chamber 6 (CH 6).
- Tested Date: 2023/3/14

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Band Pass Filter MICRO-TRONICS	BRM17690	005	2022/5/26	2023/5/25
Boresight antenna tower fixture BV	BAF-02	6	N/A	N/A
High Pass Filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	2022/5/26	2023/5/25
Horn Antenna EMCO	3115	00028257	2022/11/13	2023/11/12
Horn Antenna ETS-Lindgren	3117-PA	00215857	2023/2/3	2024/2/2
Horn Antenna Schwarzbeck	BBHA 9170	212	2022/10/20	2023/10/19
Notch Filter MICRO-TRONICS	BRC50703-01	010	2022/5/26	2023/5/25
Pre-amplifier HP	8449B	3008A01201	2023/2/16	2024/2/15
Pre-amplifier (18GHz-40GHz) EMCI	EMC184045B	980175	2022/9/3	2023/9/2
Pre_Amplifier EMCI	EMC0126545	980076	2023/2/16	2024/2/15
	EMC184045B	980235	2023/2/16	2024/2/15
RF Coaxial Cable EM	EM102-KMKM-3.5+1M	EM102-KMKM-3.5+1M-01	2022/7/7	2023/7/6
RF Coaxial Cable EMCI	EMC104	190801	2022/9/20	2023/9/19
		190804	2022/9/20	2023/9/19
RF Coaxial Cable HUBER SUHNER	SF-104	Cable-CH6-01	2022/9/20	2023/9/19
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A
	Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101042	2022/9/5	2023/9/4
		101544	2022/5/9	2023/5/8
Test Receiver Agilent	N9038A	MY51210129	2022/4/8	2023/4/7
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

1. The test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2023/3/2 ~ 2023/4/6

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

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

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

*B is the 26 dB emission bandwidth in megahertz

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

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

5.3 Power Spectral Density

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

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

5.4 6 dB Bandwidth

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

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

5.7 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.8 Unwanted Emissions below 1 GHz

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

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.9 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1}	PK: 68.2 (dBμV/m) ^{*1}
	PK: 10 (dBm/MHz) ^{*2}	PK: 105.2 (dBμV/m) ^{*2}
	PK: 15.6 (dBm/MHz) ^{*3}	PK: 110.8 (dBμV/m) ^{*3}
	PK: 27 (dBm/MHz) ^{*4}	PK: 122.2 (dBμV/m) ^{*4}

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

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

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

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

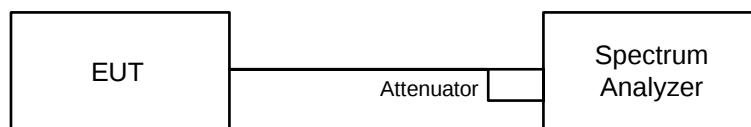
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

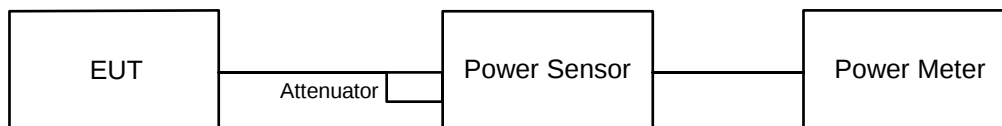


6.1.2 Test Procedure

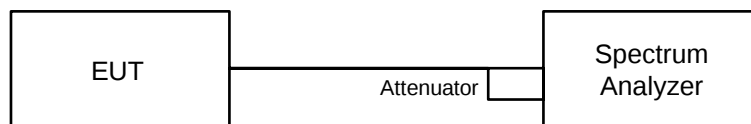
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



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-1

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

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

For channel straddling:

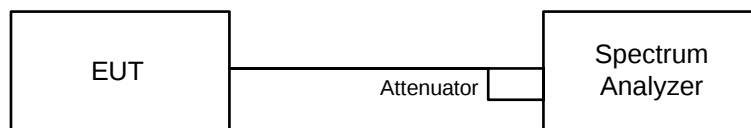
Method SA-2A

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

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-2A

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

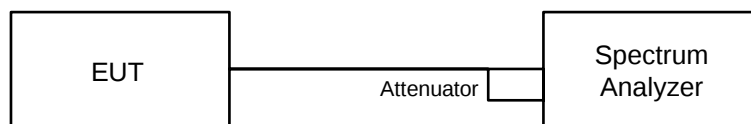
For specified measurement bandwidth 500 kHz:

Method SA-2A

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq$ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Manually set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
- Perform a single sweep.
- Record the max value and add 10 log (1/duty cycle).

6.4 6 dB Bandwidth

6.4.1 Test Setup

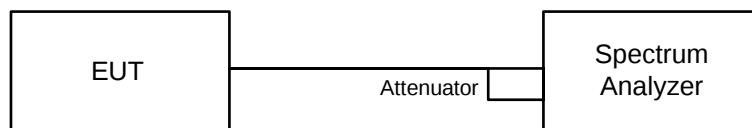


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

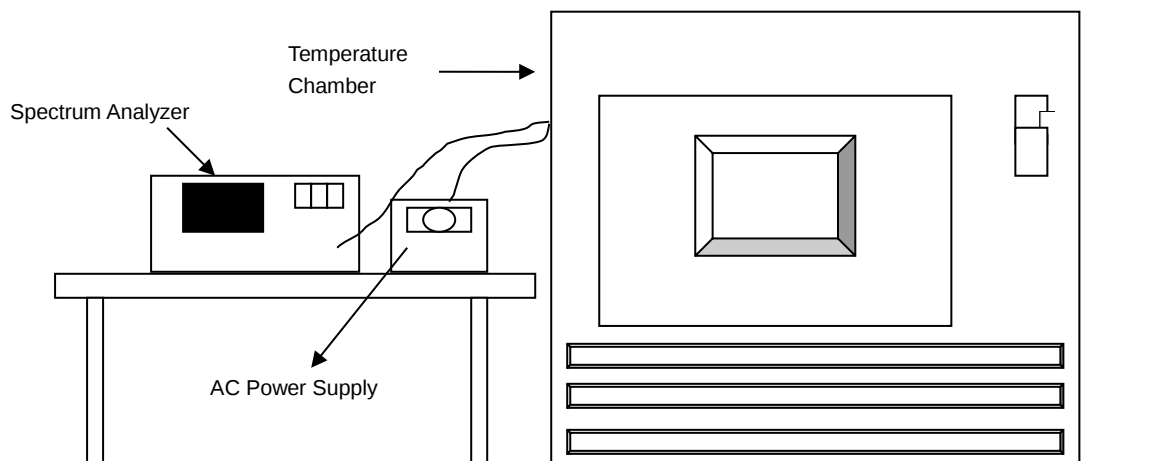


6.5.2 Test Procedure

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

6.6 Frequency Stability

6.6.1 Test Setup

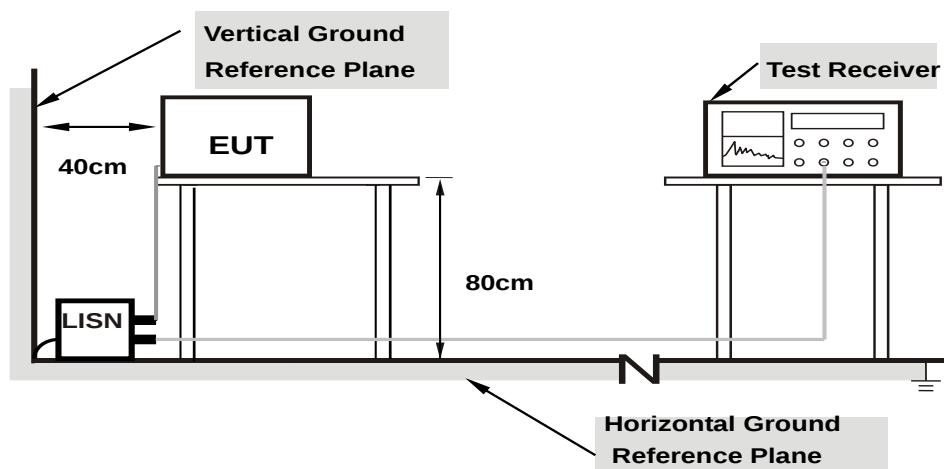


6.6.2 Test Procedure

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

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



Note: 1. Support units were connected to second LISN.

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

6.7.2 Test Procedure

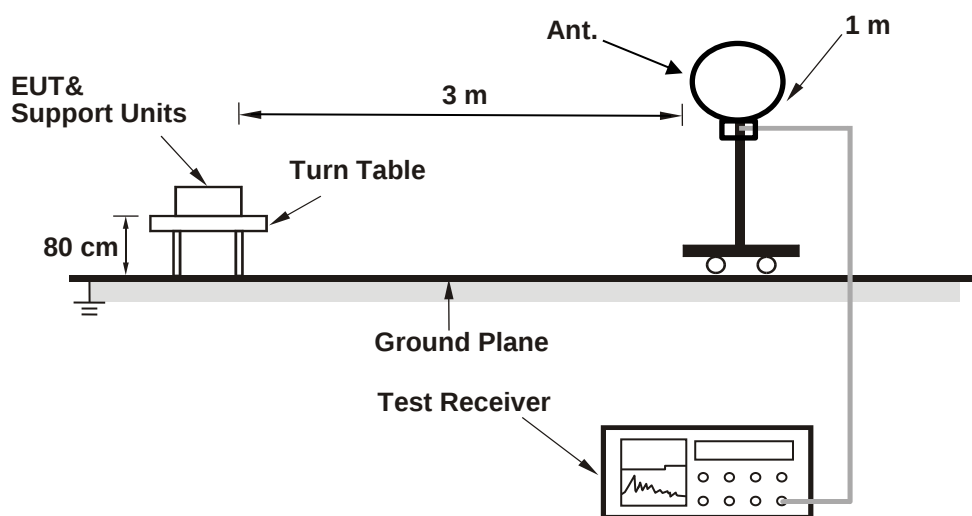
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

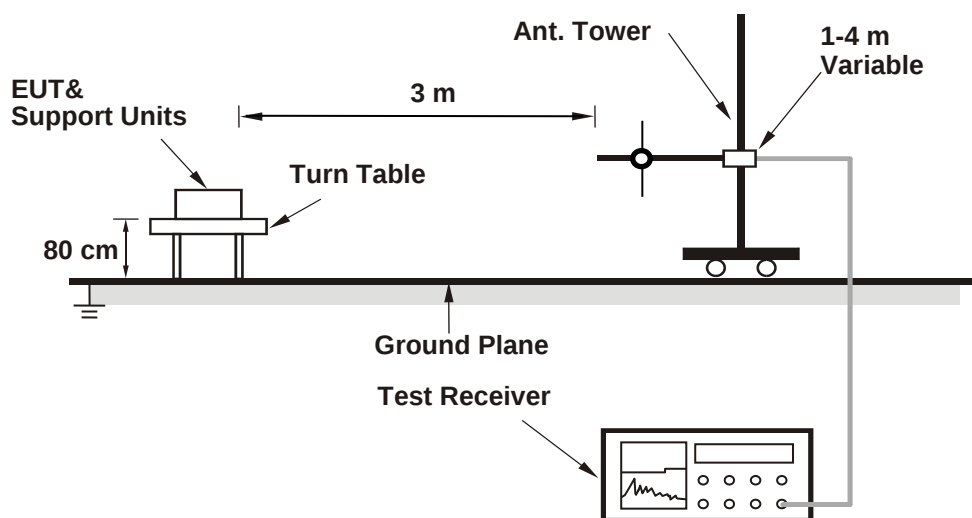
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.8.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

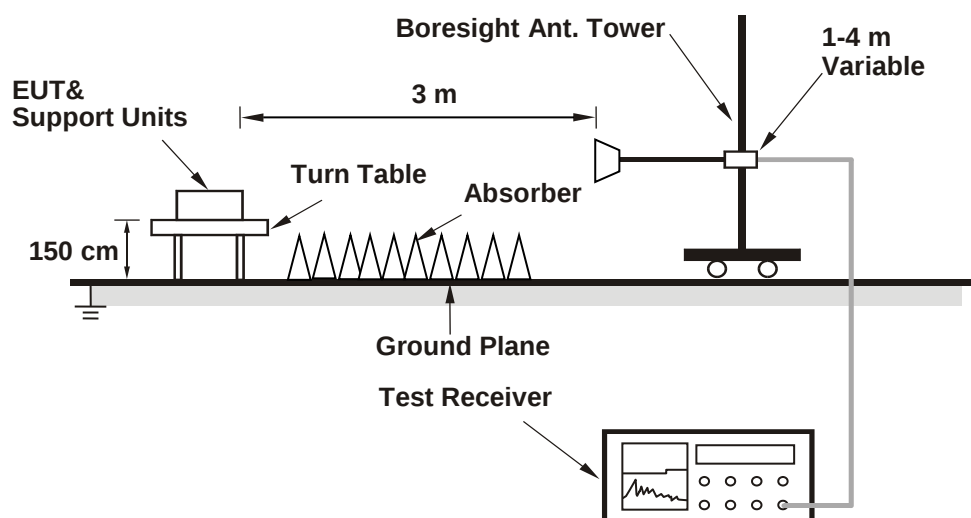
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



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

6.9.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode A_CDD

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	22.91	23.85	24.81	24.34
60	5300	22.55	24.06	23.66	25.92
64	5320	23.78	24.69	27.60	25.27
100	5500	25.16	24.17	26.73	26.75
116	5580	26.04	24.89	24.89	24.52
140	5700	21.87	22.00	21.76	21.67
144 (U-NII-2C)	5720	16.92	18.51	16.76	17.50
144 (U-NII-3)	5720	6.79	6.78	7.96	6.95

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	22.91	24.6	>	24
60	5300	22.55	24.53	>	24
64	5320	23.78	24.76	>	24
100	5500	24.17	24.83	>	24
116	5580	24.52	24.89	>	24
140	5700	21.67	24.35	>	24
144 (U-NII-2C)	5720	16.76	23.24	<	24

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

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	23.97	24.17	24.17	25.15
60	5300	22.80	25.04	26.30	25.23
64	5320	27.89	25.17	25.54	29.17
100	5500	27.21	22.69	28.36	28.11
116	5580	24.45	24.06	25.53	26.09
140	5700	22.11	21.81	21.78	22.00
144 (U-NII-2C)	5720	17.55	17.21	16.41	16.25
144 (U-NII-3)	5720	8.21	6.37	7.46	6.22

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	23.97	24.79 > 24
60	5300	22.80	24.57 > 24
64	5320	25.17	25 > 24
100	5500	22.69	24.55 > 24
116	5580	24.06	24.81 > 24
140	5700	21.78	24.38 > 24
144 (U-NII-2C)	5720	16.25	23.1 < 24

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

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	43.86	46.72	47.14	44.72
62	5310	52.19	53.66	46.11	53.06
102	5510	49.21	45.62	46.63	50.51
110	5550	46.61	43.35	45.52	44.83
134	5670	43.90	44.14	48.25	56.08
142 (U-NII-2C)	5710	39.45	36.38	37.00	39.76
142 (U-NII-3)	5710	8.50	6.53	6.50	6.89

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	43.86	27.42 > 24
62	5310	46.11	27.63 > 24
102	5510	45.62	27.59 > 24
110	5550	43.35	27.36 > 24
134	5670	43.90	27.42 > 24
142 (U-NII-2C)	5710	36.38	26.6 > 24

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

802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	87.06	84.72	84.68	85.23
106	5530	87.11	85.80	87.29	99.92
122	5610	84.22	84.32	84.91	84.67
138 (U-NII-2C)	5690	76.63	78.57	76.85	77.96
138 (U-NII-3)	5690	6.15	6.97	6.67	6.42

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	84.68	30.27 > 24
106	5530	85.80	30.33 > 24
122	5610	84.22	30.25 > 24
138 (U-NII-2C)	5690	76.63	29.84 > 24

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

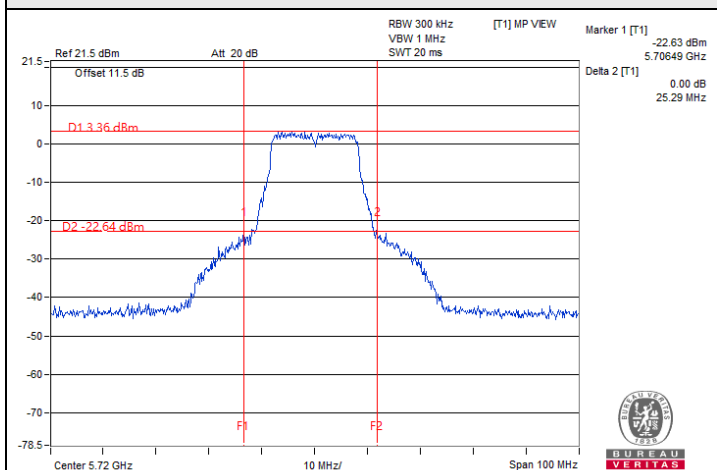
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1)	5250	83.07	83.44	83.27	83.56
50 (U-NII-2A)	5250	83.35	84.32	83.75	84.24
114	5570	169.12	168.63	168.15	167.80

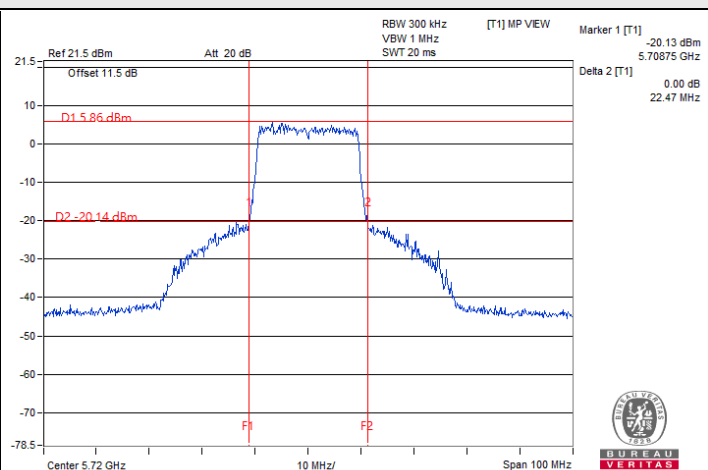
Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	83.35	30.2 > 24
114	5570	167.80	33.24 > 24

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

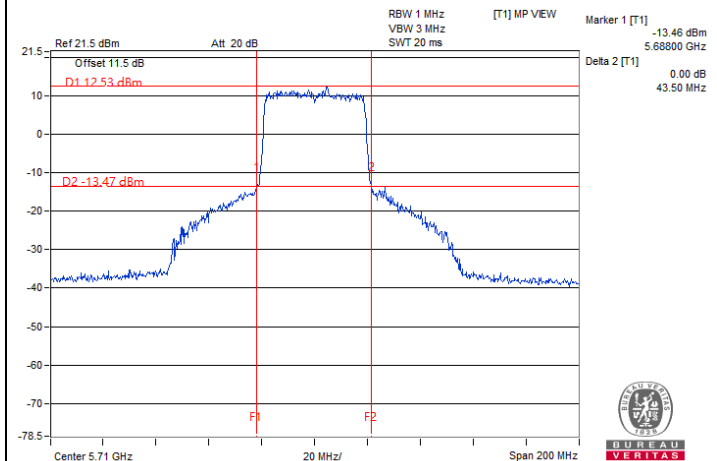
Spectrum Plot of Minimum Value



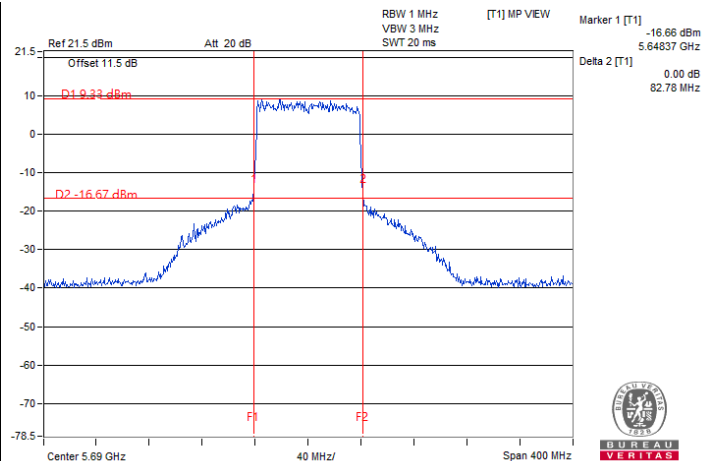
802.11a / Chain 1 : CH 144 (U-NII-3)



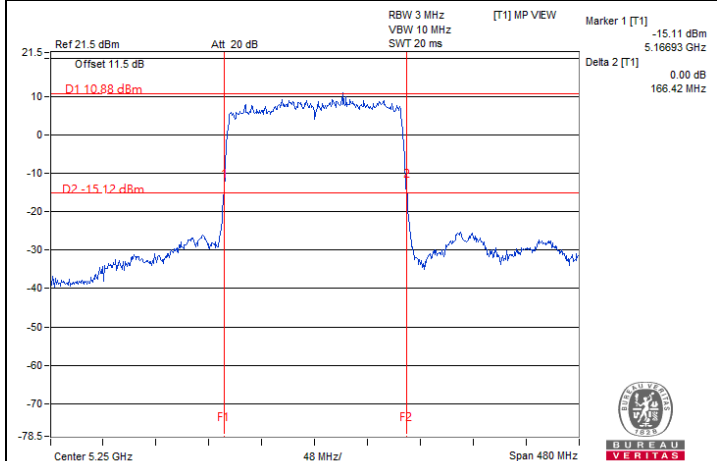
802.11ax (HE20) / Chain 3 : CH 144 (U-NII-3)



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



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



802.11ax (HE160) / Chain 0 : CH 50 (U-NII-1)

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
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode A_CDD

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	19.24	18.85	18.56	18.73	307.106	24.87	29.3	Pass
40	5200	19.33	18.82	18.71	18.95	314.737	24.98	29.3	Pass
48	5240	19.26	18.80	18.93	18.86	315.267	24.99	29.3	Pass
52	5260	13.03	12.71	12.80	13.32	79.288	18.99	23.3	Pass
60	5300	13.04	12.80	12.64	13.36	79.234	18.99	23.3	Pass
64	5320	12.97	12.96	12.37	13.35	78.471	18.95	23.3	Pass
100	5500	12.76	13.13	12.98	12.90	78.798	18.97	23.3	Pass
116	5580	12.54	13.05	13.04	12.76	77.148	18.87	23.3	Pass
140	5700	12.76	13.31	12.82	13.03	79.542	19.01	23.3	Pass
*144 (U-NII-2C)	5720	10.93	11.35	11.01	11.14	51.654	17.13	22.54	Pass
*144 (U-NII-3)	5720	4.74	5.02	4.74	4.86	12.196	10.86	29.3	Pass
149	5745	23.04	22.79	23.28	23.05	806.131	29.06	29.3	Pass
157	5785	22.81	23.02	23.32	22.92	802.1	29.04	29.3	Pass
165	5825	22.57	23.04	23.33	22.86	790.565	28.98	29.3	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the directional gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.7 - 6) = 29.3$ dBm.
- For U-NII-2A, the directional gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.7 - 6)].
- For U-NII-2C, the directional gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.7 - 6)].
- For U-NII-3, the directional gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.7 - 6) = 29.3$ dBm.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	19.63	19.21	19.06	19.16	338.153	25.29	29.3	Pass
40	5200	19.60	19.28	19.17	19.21	341.896	25.34	29.3	Pass
48	5240	19.55	19.02	19.24	19.20	337.079	25.28	29.3	Pass
52	5260	13.31	12.86	12.83	13.52	82.426	19.16	23.3	Pass
60	5300	13.36	13.06	12.84	13.43	83.167	19.20	23.3	Pass
64	5320	13.27	13.04	12.82	13.41	82.44	19.16	23.3	Pass
100	5500	13.12	13.20	12.89	13.46	83.04	19.19	23.3	Pass
116	5580	12.69	13.40	13.52	13.21	83.887	19.24	23.3	Pass
140	5700	13.57	13.02	13.09	13.26	84.35	19.26	23.3	Pass
*144 (U-NII-2C)	5720	11.44	11.69	11.41	11.42	56.392	17.51	22.4	Pass
*144 (U-NII-3)	5720	6.22	6.37	6.16	6.10	16.727	12.23	29.3	Pass
149	5745	22.85	22.82	23.24	23.03	795.95	29.01	29.3	Pass
157	5785	23.04	22.80	23.37	22.76	797.988	29.02	29.3	Pass
165	5825	22.61	23.04	23.49	22.68	792.472	28.99	29.3	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the directional gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.7-6) = 29.3$ dBm.
4. For U-NII-2A, the directional gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.7-6)].
5. For U-NII-2C, the directional gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.7-6)].
6. For U-NII-3, the directional gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.7-6) = 29.3$ dBm.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	16.68	16.49	16.45	16.73	182.379	22.61	29.3	Pass
46	5230	22.63	22.27	22.65	22.42	710.546	28.52	29.3	Pass
54	5270	16.64	16.35	16.12	16.47	174.571	22.42	23.3	Pass
62	5310	16.51	16.44	15.93	16.39	171.552	22.34	23.3	Pass
102	5510	16.28	16.19	16.60	16.66	176.107	22.46	23.3	Pass
110	5550	16.37	16.25	16.82	16.79	181.358	22.59	23.3	Pass
134	5670	16.60	16.62	16.11	16.74	179.667	22.54	23.3	Pass
*142 (U-NII-2C)	5710	15.21	14.98	14.63	15.36	128.063	21.07	23.3	Pass
*142 (U-NII-3)	5710	5.61	5.27	4.89	5.55	13.677	11.36	29.3	Pass
151	5755	22.99	23.13	23.06	22.98	805.568	29.06	29.3	Pass
159	5795	22.81	22.96	23.40	23.07	810.227	29.09	29.3	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.7 - 6) = 29.3$ dBm.
- For U-NII-2A, the maximum gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.7 - 6)].
- For U-NII-2C, the maximum gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.7 - 6)].
- For U-NII-3, the maximum gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.7 - 6) = 29.3$ dBm.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	17.32	16.93	16.74	17.28	203.931	23.09	29.3	Pass
58	5290	17.26	17.03	17.05	17.26	207.587	23.17	23.3	Pass
106	5530	15.06	15.01	15.33	15.59	134.102	21.27	23.3	Pass
122	5610	16.73	17.24	16.91	17.40	204.109	23.10	23.3	Pass
*138 (U-NII-2C)	5690	15.66	15.90	15.41	16.30	153.129	21.85	23.3	Pass
*138 (U-NII-3)	5690	2.45	2.73	2.13	2.76	7.154	8.55	29.3	Pass
155	5775	22.01	21.97	22.12	22.20	645.141	28.10	29.3	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.7 - 6) = 29.3$ dBm.
4. For U-NII-2A, the maximum gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.7-6)].
5. For U-NII-2C, the maximum gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.7-6)].
6. For U-NII-3, the maximum gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.7 - 6) = 29.3$ dBm.

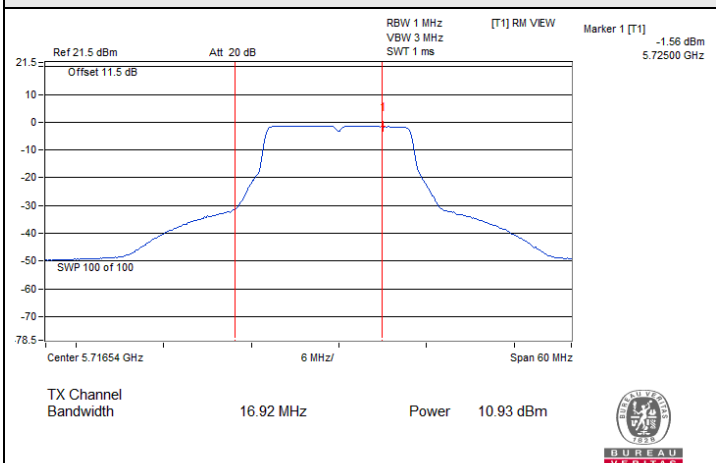
802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	10.58	10.42	10.20	10.58	44.344	16.47	29.3	Pass
*50 (U-NII-2A)	5250	11.55	11.38	11.16	11.56	55.413	17.44	23.3	Pass
114	5570	15.53	15.42	15.25	15.34	138.256	21.41	23.3	Pass

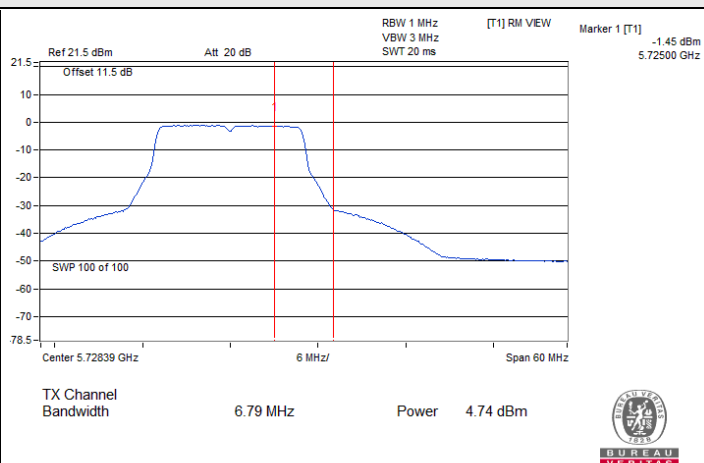
Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.7 - 6) = 29.3$ dBm.
4. For U-NII-2A, the maximum gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.7-6)].
5. For U-NII-2C, the maximum gain is 6.7 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.7-6)].

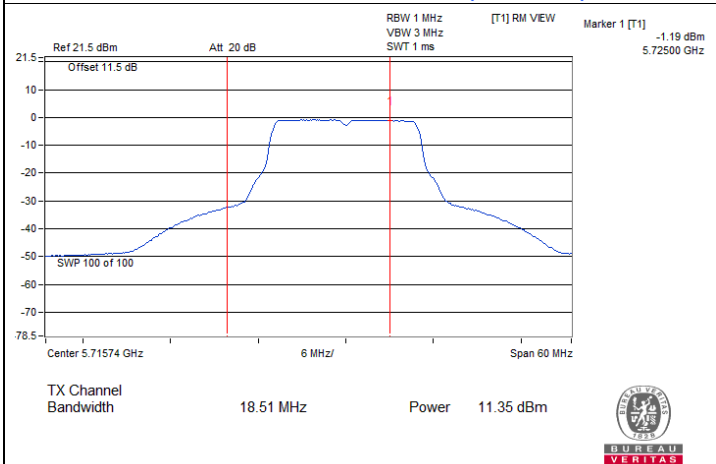
Spectrum Plot for channel straddling



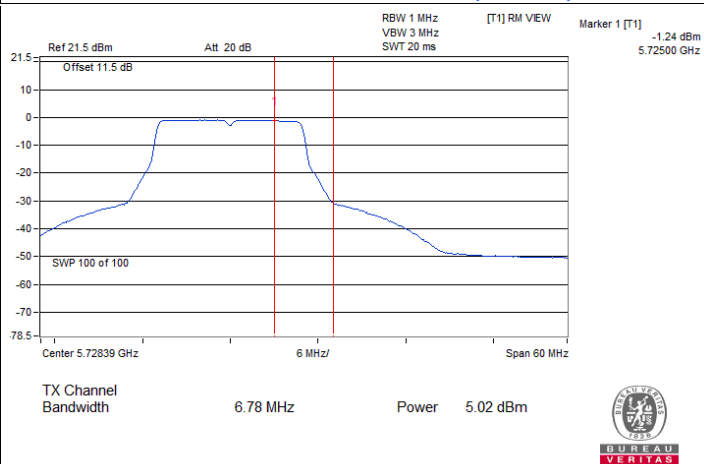
802.11a / Chain 0 : CH 144 (U-NII-2C)



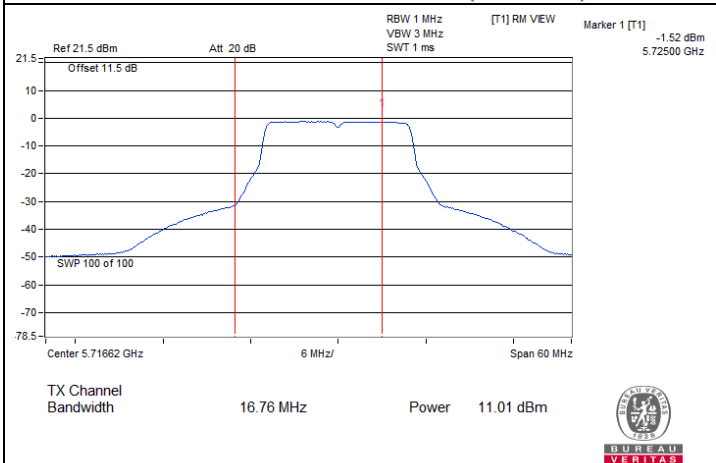
802.11a / Chain 0 : CH 144 (U-NII-3)



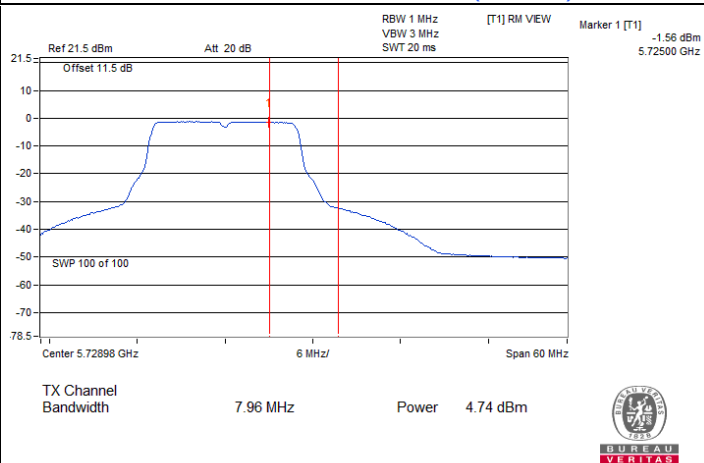
802.11a / Chain 1 : CH 144 (U-NII-2C)



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

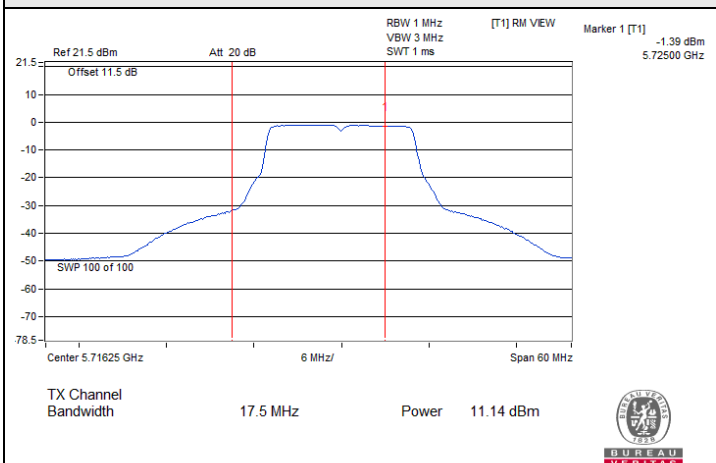


802.11a / Chain 2 : CH 144 (U-NII-2C)

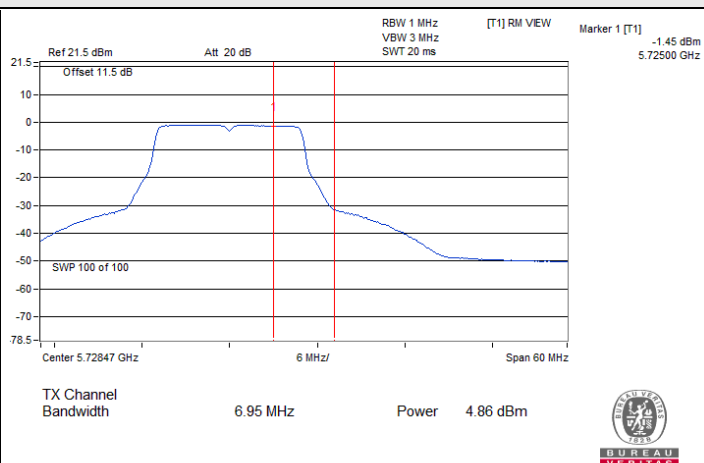


802.11a / Chain 2 : CH 144 (U-NII-3)

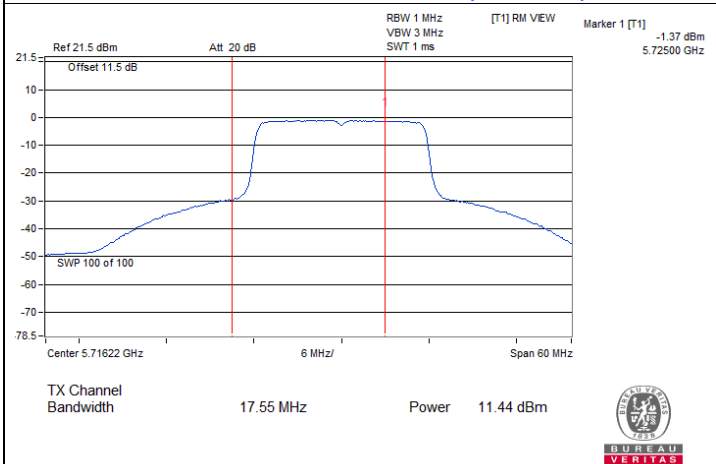
Spectrum Plot for channel straddling



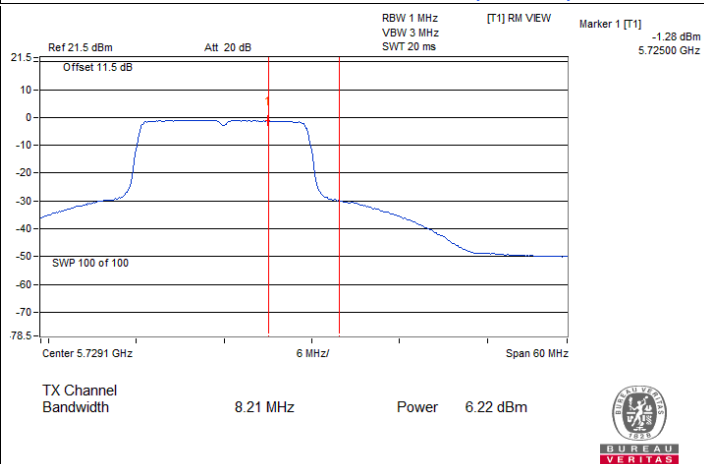
802.11a / Chain 3 : CH 144 (U-NII-2C)



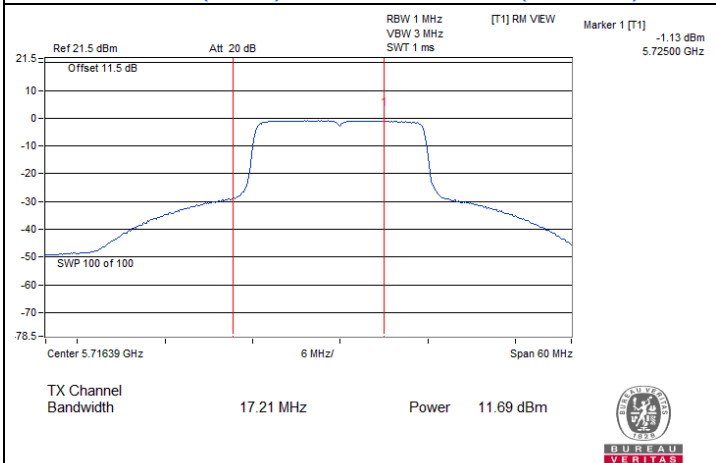
802.11a / Chain 3 : CH 144 (U-NII-3)



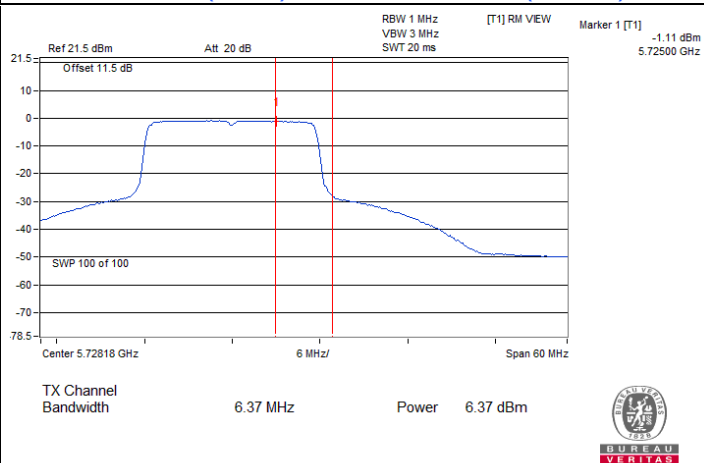
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)



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

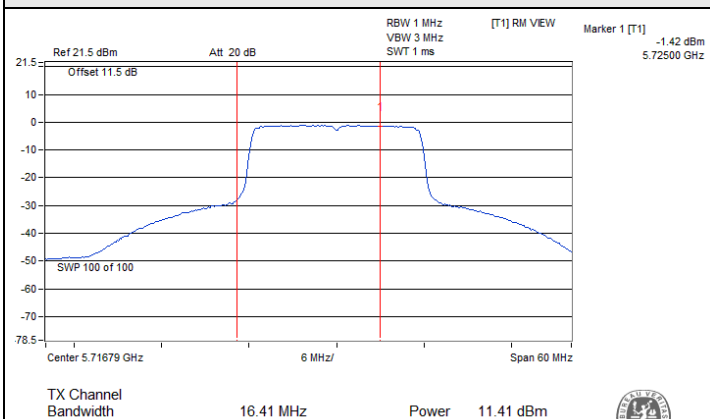


802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)

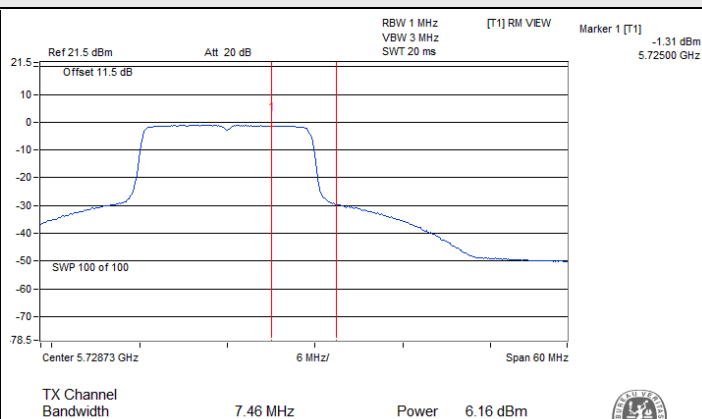


802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)

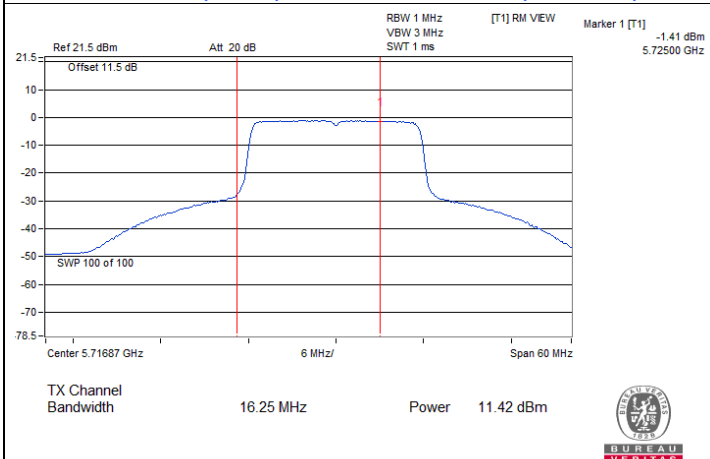
Spectrum Plot for channel straddling



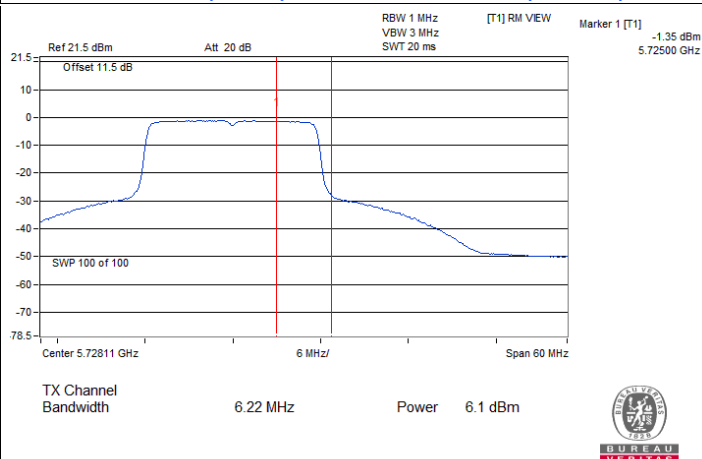
802.11ax (HE20) / Chain 2 : CH 144 (U-NII-2C)



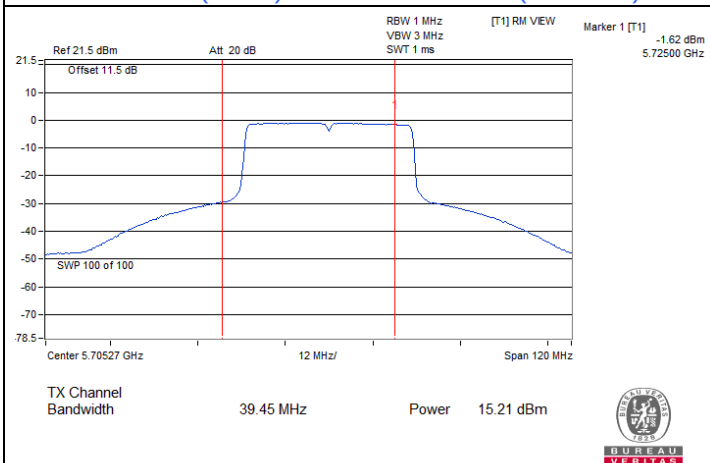
802.11ax (HE20) / Chain 2 : CH 144 (U-NII-3)



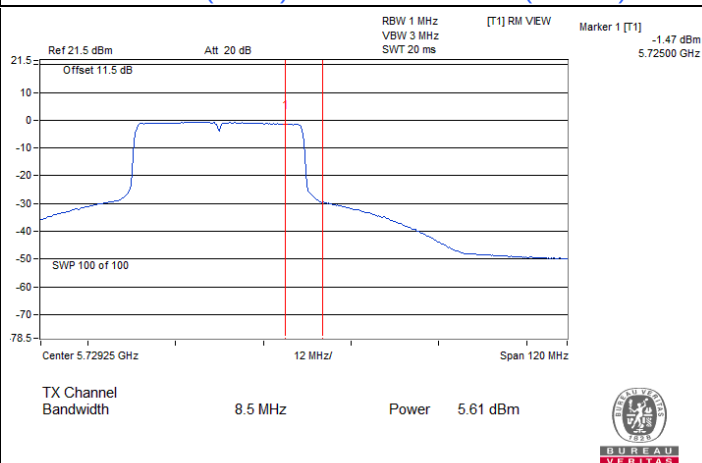
802.11ax (HE20) / Chain 3 : CH 144 (U-NII-2C)



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

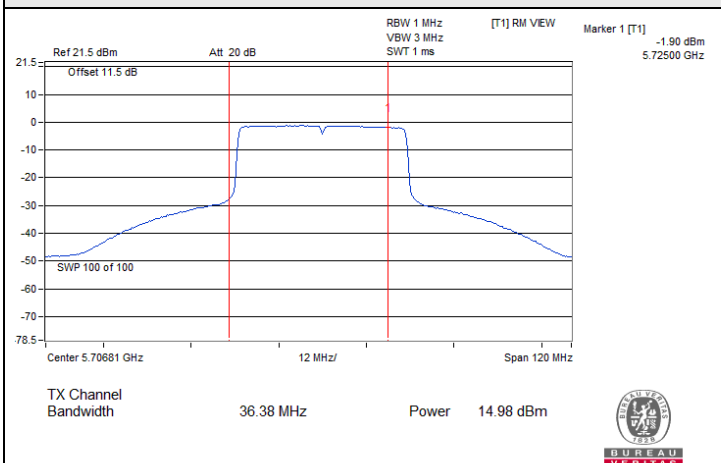


802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)

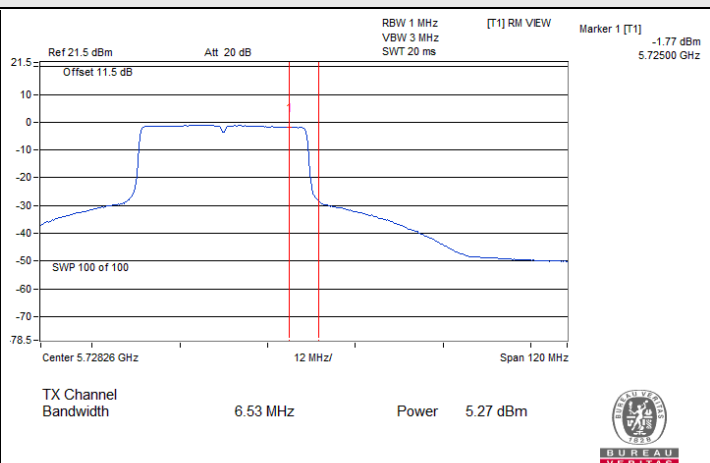


802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)

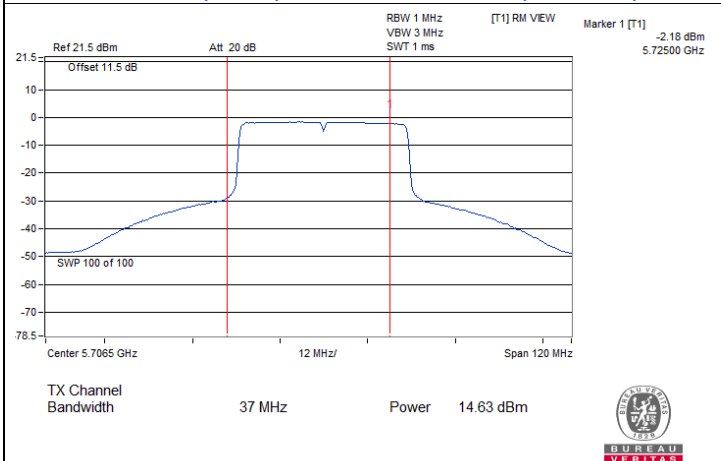
Spectrum Plot for channel straddling



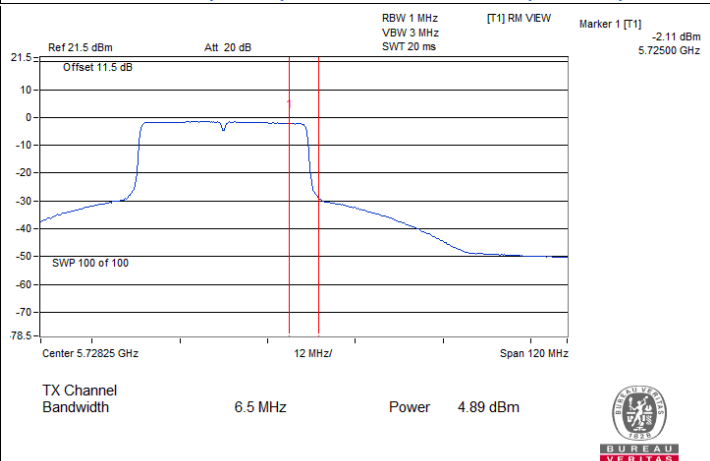
802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)



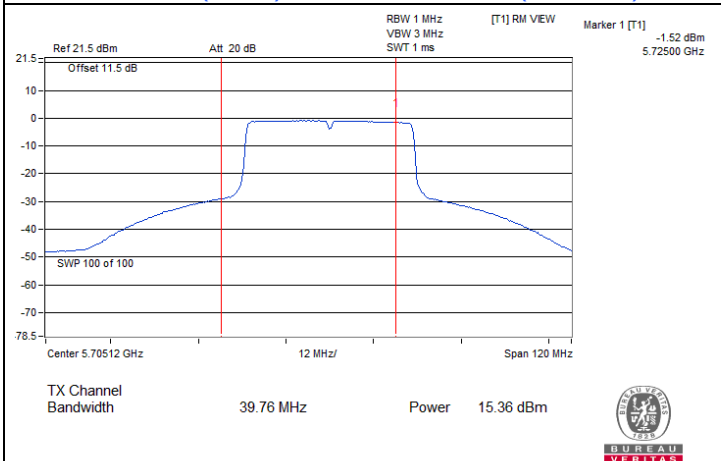
802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)



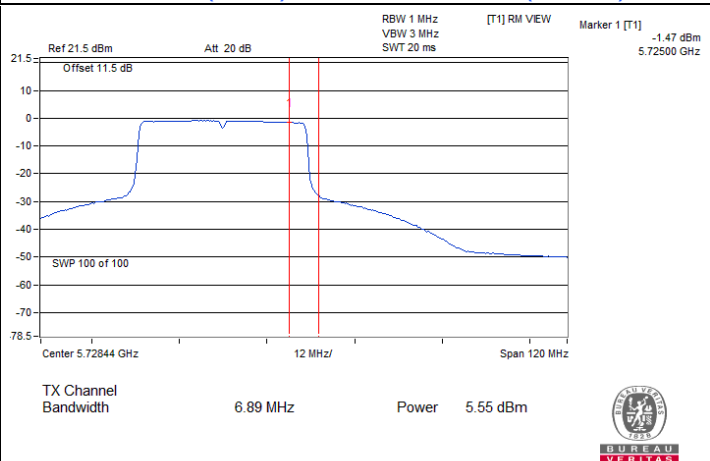
802.11ax (HE40) / Chain 2 : CH 142 (U-NII-2C)



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

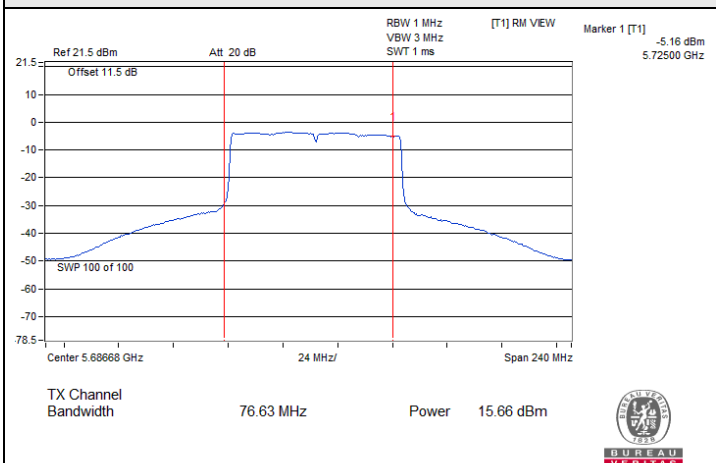


802.11ax (HE40) / Chain 3 : CH 142 (U-NII-2C)

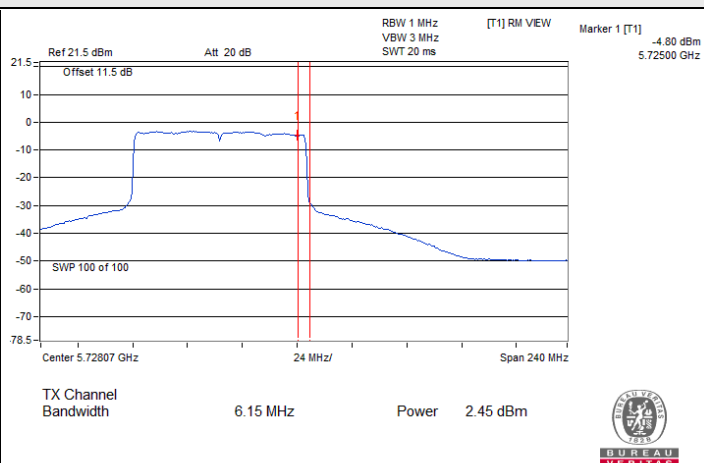


802.11ax (HE40) / Chain 3 : CH 142 (U-NII-3)

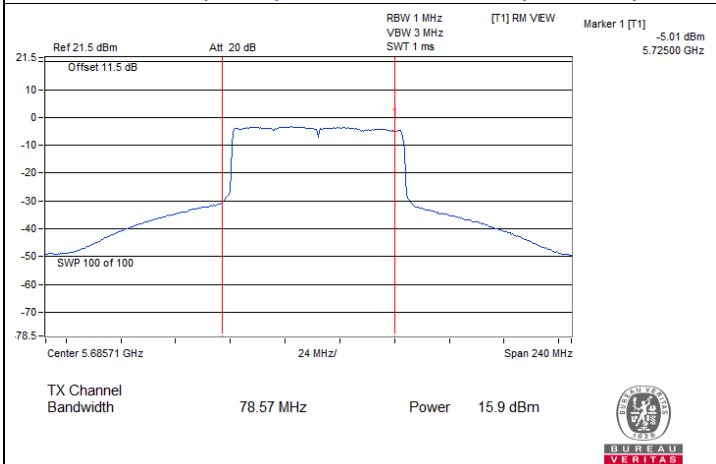
Spectrum Plot for channel straddling



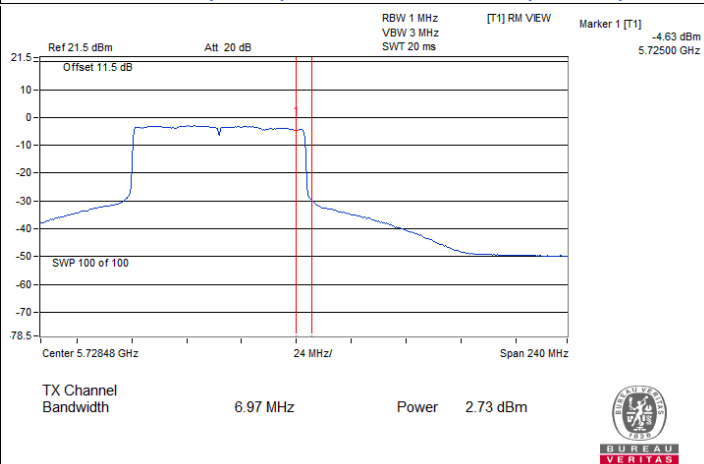
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



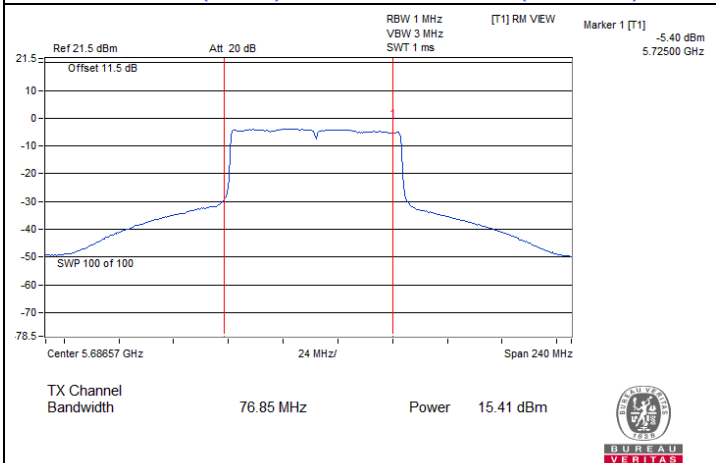
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-3)



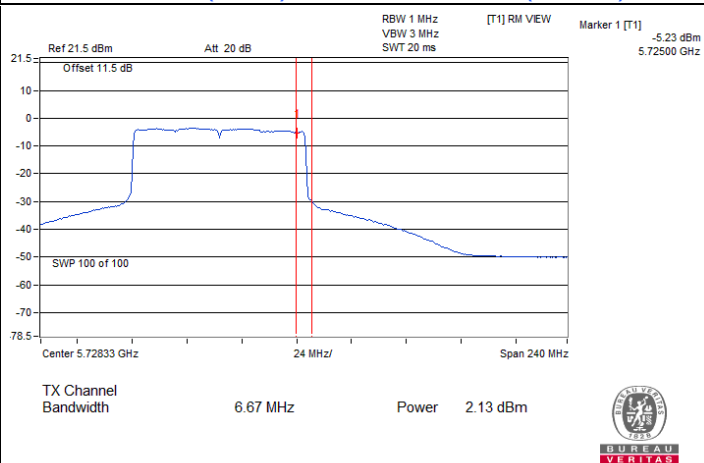
802.11ax (HE80) / Chain 1 : CH 138 (U-NII-2C)



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

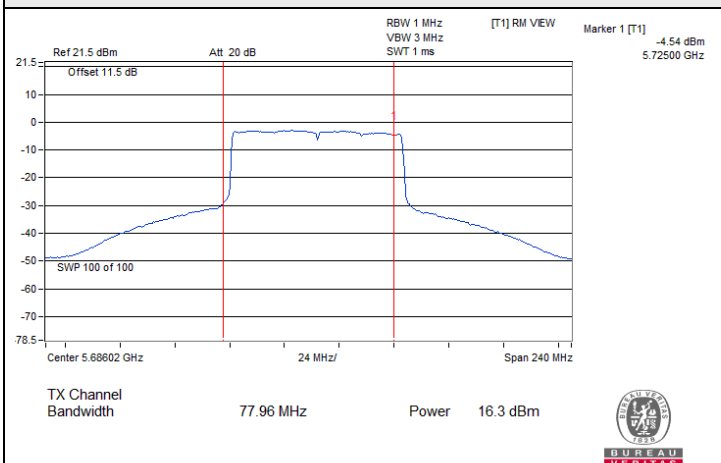


802.11ax (HE80) / Chain 2 : CH 138 (U-NII-2C)

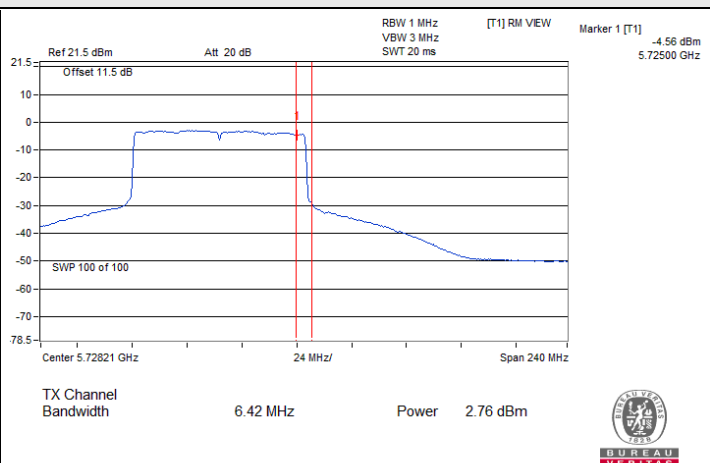


802.11ax (HE80) / Chain 2 : CH 138 (U-NII-3)

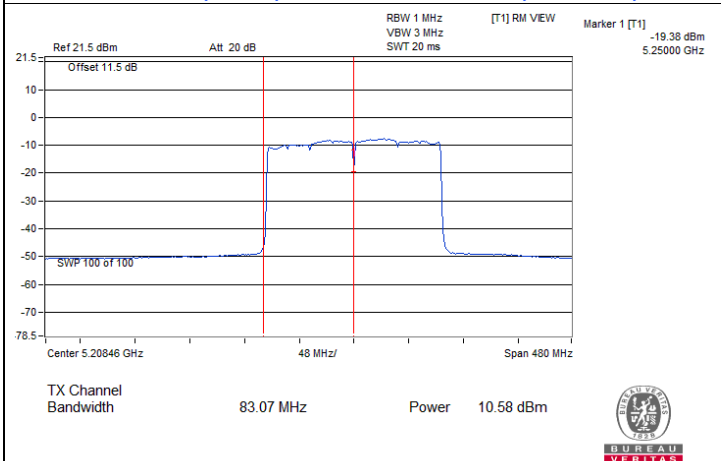
Spectrum Plot for channel straddling



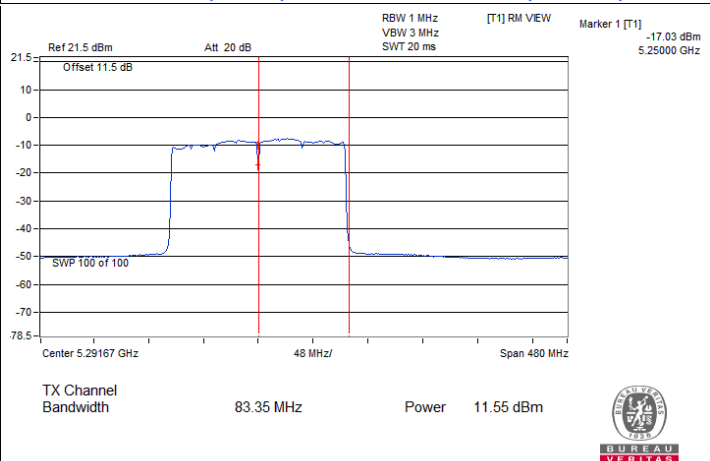
802.11ax (HE80) / Chain 3 : CH 138 (U-NII-2C)



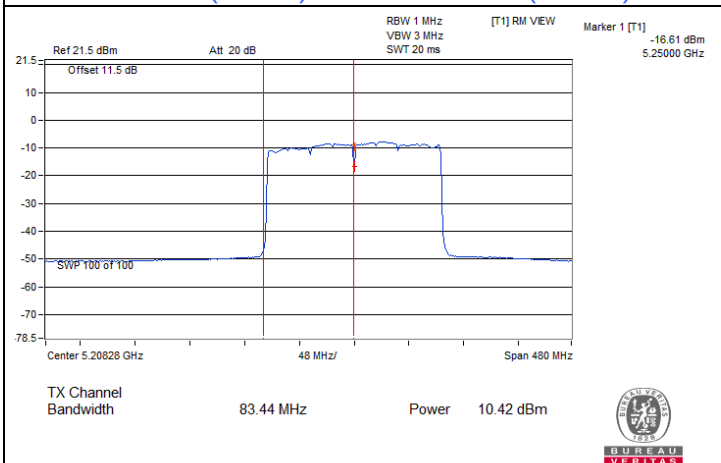
802.11ax (HE80) / Chain 3 : CH 138 (U-NII-3)



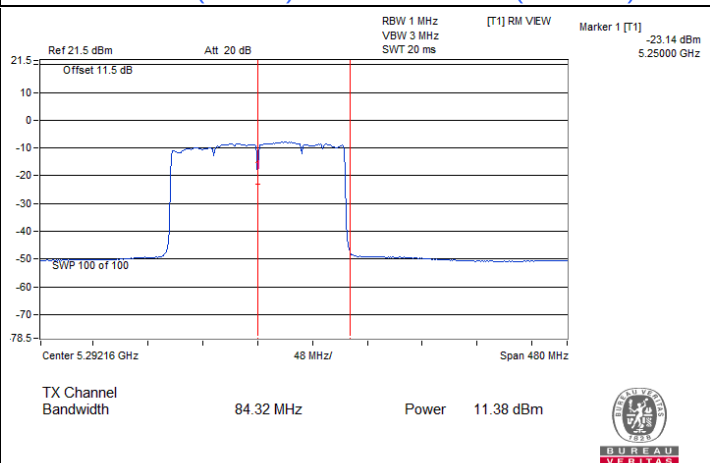
802.11ax (HE160) / Chain 0 : CH 50 (U-NII-1)



802.11ax (HE160) / Chain 0 : CH 50 (U-NII-2A)

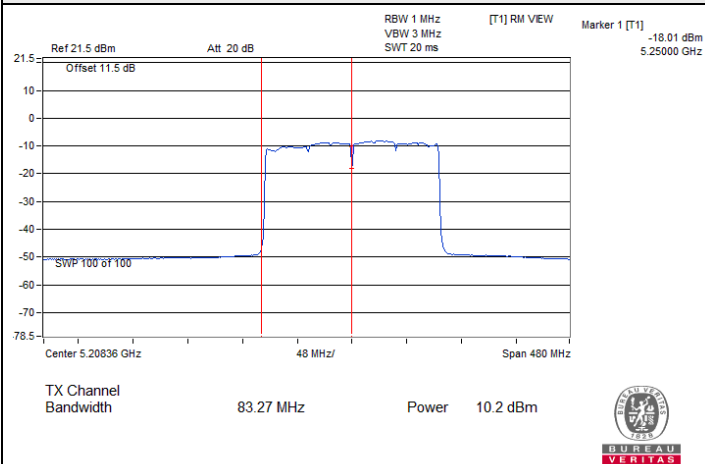


802.11ax (HE160) / Chain 1 : CH 50 (U-NII-1)

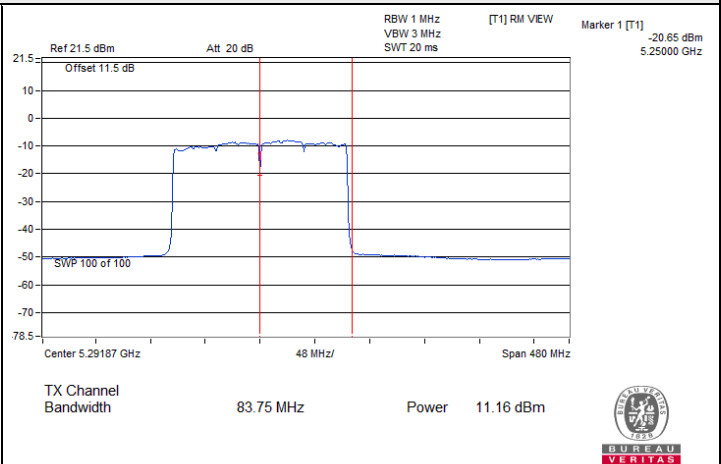


802.11ax (HE160) / Chain 1 : CH 50 (U-NII-2A)

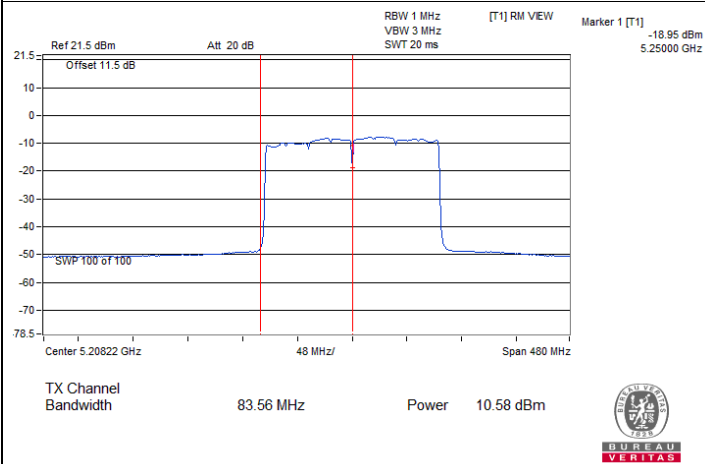
Spectrum Plot for channel straddling



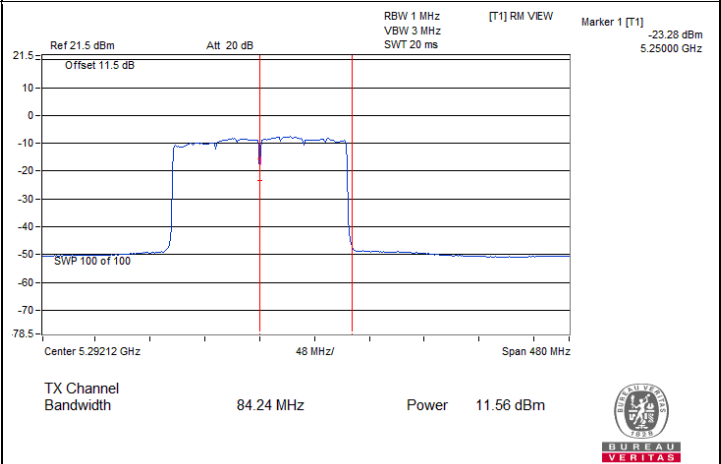
802.11ax (HE160) / Chain 2 : CH 50 (U-NII-1)



802.11ax (HE160) / Chain 2 : CH 50 (U-NII-2A)



802.11ax (HE160) / Chain 3 : CH 50 (U-NII-1)



802.11ax (HE160) / Chain 3 : CH 50 (U-NII-2A)

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode A_Beamforming

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	18.38	17.96	17.81	17.91	253.579	24.04	24.28	Pass
40	5200	18.35	18.03	17.92	17.96	256.386	24.09	24.28	Pass
48	5240	18.30	17.77	17.99	17.95	252.774	24.03	24.28	Pass
52	5260	12.31	11.86	11.83	12.52	65.473	18.16	18.28	Pass
60	5300	12.36	12.06	11.84	12.43	66.062	18.20	18.28	Pass
64	5320	12.27	12.04	11.82	12.41	65.485	18.16	18.28	Pass
100	5500	12.12	12.20	11.89	12.46	65.961	18.19	18.28	Pass
116	5580	11.69	12.40	12.52	12.21	66.634	18.24	18.28	Pass
140	5700	12.57	12.02	12.09	12.26	67.001	18.26	18.28	Pass
*144 (U-NII-2C)	5720	10.22	10.51	10.17	10.18	42.588	16.29	18.28	Pass
*144 (U-NII-3)	5720	5.00	5.19	4.94	4.89	12.668	11.03	24.28	Pass
149	5745	17.85	17.82	18.24	18.03	251.702	24.01	24.28	Pass
157	5785	18.04	17.80	18.37	17.76	252.346	24.02	24.28	Pass
165	5825	17.61	18.04	18.49	17.68	250.602	23.99	24.28	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (11.72 - 6) = 24.28$ dBm.
- For U-NII-2A, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.72-6)].
- For U-NII-2C, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.72-6)].
- For U-NII-3, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (11.72 - 6) = 24.28$ dBm.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	16.43	16.21	16.18	16.49	171.798	22.35	24.28	Pass
46	5230	18.13	17.77	18.15	17.92	252.111	24.02	24.28	Pass
54	5270	12.14	11.85	11.62	11.97	61.94	17.92	18.28	Pass
62	5310	12.01	11.94	11.43	11.89	60.869	17.84	18.28	Pass
102	5510	11.78	11.69	12.10	12.16	62.485	17.96	18.28	Pass
110	5550	11.87	11.75	12.32	12.29	64.348	18.09	18.28	Pass
134	5670	12.10	12.12	11.61	12.24	63.748	18.04	18.28	Pass
*142 (U-NII-2C)	5710	10.73	10.50	10.19	10.88	45.744	16.60	18.28	Pass
*142 (U-NII-3)	5710	1.12	0.80	0.42	1.07	4.877	6.88	24.28	Pass
151	5755	17.99	18.13	18.06	17.98	254.743	24.06	24.28	Pass
159	5795	17.81	17.96	18.40	18.07	256.216	24.09	24.28	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (11.72 - 6) = 24.28$ dBm.
- For U-NII-2A, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (11.72 - 6)].
- For U-NII-2C, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (11.72 - 6)].
- For U-NII-3, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (11.72 - 6) = 24.28$ dBm.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	17.09	16.67	16.46	17.07	192.812	22.85	24.28	Pass
58	5290	12.26	12.03	12.05	12.26	65.645	18.17	18.28	Pass
106	5530	11.81	11.76	12.08	12.34	63.451	18.02	18.28	Pass
122	5610	11.73	12.24	11.91	12.40	64.545	18.10	18.28	Pass
*138 (U-NII-2C)	5690	10.67	10.96	10.49	11.30	48.826	16.89	18.28	Pass
*138 (U-NII-3)	5690	-2.52	-2.22	-2.85	-2.23	2.2768	3.57	24.28	Pass
155	5775	18.01	17.97	18.12	18.20	256.835	24.10	24.28	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (11.72 - 6) = 24.28$ dBm.
- For U-NII-2A, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.72-6)].
- For U-NII-2C, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.72-6)].
- For U-NII-3, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (11.72 - 6) = 24.28$ dBm.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	7.61	7.53	7.23	7.57	22.429	13.51	24.28	Pass
*50 (U-NII-2A)	5250	8.60	8.50	8.19	8.54	28.061	14.48	18.28	Pass
114	5570	12.28	12.17	12.00	12.09	65.416	18.16	18.28	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (11.72 - 6) = 24.28$ dBm.
- For U-NII-2A, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.72-6)].
- For U-NII-2C, the directional gain is 11.72 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(11.72-6)].

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode A_CDD

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	5.27	4.86	4.70	4.79	10.93	11.28	Pass
40	5200	5.39	4.79	4.81	4.89	11.00	11.28	Pass
48	5240	5.19	4.87	4.97	4.84	10.99	11.28	Pass
52	5260	-0.92	-1.30	-1.04	-0.70	5.04	5.28	Pass
60	5300	-0.89	-1.19	-1.30	-0.65	5.02	5.28	Pass
64	5320	-1.01	-0.91	-1.38	-0.67	5.04	5.28	Pass
100	5500	-1.04	-0.84	-1.04	-1.02	5.04	5.28	Pass
116	5580	-1.31	-1.00	-0.90	-1.06	4.96	5.28	Pass
140	5700	-1.11	-0.83	-0.81	-0.90	5.11	5.28	Pass
144 (U-NII-2C)	5720	-1.19	-0.76	-1.19	-1.13	4.96	5.28	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = gain of antenna element + 10 log (4 of TX antenna elements)
- For U-NII-1, the directional gain is 11.72 dBi > 6dBi, so the power density limit shall be reduced to 17-(11.72-6) = 11.28 dBm/MHz.
- For U-NII-2A, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to 11-(11.72-6) = 5.28 dBm/MHz.
- For U-NII-2C, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to 11-(11.72-6) = 5.28 dBm/MHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	5.26	4.78	4.72	4.81	10.92	11.28	Pass
40	5200	5.26	4.74	4.83	4.90	10.96	11.28	Pass
48	5240	5.14	4.68	4.78	4.87	10.89	11.28	Pass
52	5260	-0.86	-1.24	-1.16	-0.51	5.09	5.28	Pass
60	5300	-0.84	-1.03	-1.20	-0.76	5.07	5.28	Pass
64	5320	-0.92	-1.06	-1.14	-0.73	5.06	5.28	Pass
100	5500	-1.03	-0.93	-1.23	-0.80	5.03	5.28	Pass
116	5580	-1.59	-0.75	-0.76	-0.91	5.03	5.28	Pass
140	5700	-0.70	-1.08	-1.00	-0.87	5.11	5.28	Pass
144 (U-NII-2C)	5720	-1.16	-0.64	-1.10	-1.13	5.02	5.28	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 11.72 dBi > 6dBi, so the power density limit shall be reduced to $17 - (11.72 - 6) = 11.28$ dBm/MHz.
- For U-NII-2A, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (11.72 - 6) = 5.28$ dBm/MHz.
- For U-NII-2C, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (11.72 - 6) = 5.28$ dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
38	5190	-0.70	-0.81	-0.93	-0.70	5.24	11.28	Pass
46	5230	5.29	4.84	5.23	5.03	11.12	11.28	Pass
54	5270	-0.80	-0.95	-1.28	-1.02	5.01	5.28	Pass
62	5310	-1.03	-1.00	-1.34	-0.99	4.93	5.28	Pass
102	5510	-1.13	-1.33	-0.69	-0.75	5.05	5.28	Pass
110	5550	-1.08	-1.22	-0.51	-0.64	5.17	5.28	Pass
134	5670	-1.07	-0.91	-1.40	-0.70	5.01	5.28	Pass
142 (U-NII-2C)	5710	-1.11	-1.13	-1.37	-0.77	4.93	5.28	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 11.72 dBi > 6dBi, so the power density limit shall be reduced to $17 - (11.72 - 6) = 11.28$ dBm/MHz.
- For U-NII-2A, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (11.72 - 6) = 5.28$ dBm/MHz.
- For U-NII-2C, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (11.72 - 6) = 5.28$ dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
42	5210	-2.98	-3.39	-3.34	-2.97	2.86	11.28	Pass
58	5290	-3.10	-3.31	-3.30	-3.22	2.79	5.28	Pass
106	5530	-5.13	-5.08	-4.99	-4.61	1.07	5.28	Pass
122	5610	-3.91	-3.26	-3.69	-3.06	2.55	5.28	Pass
138 (U-NII-2C)	5690	-3.75	-3.41	-3.91	-3.11	2.49	5.28	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 11.72 dBi > 6dBi, so the power density limit shall be reduced to $17 - (11.72 - 6) = 11.28$ dBm/MHz.
- For U-NII-2A, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (11.72 - 6) = 5.28$ dBm/MHz.
- For U-NII-2C, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (11.72 - 6) = 5.28$ dBm/MHz.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
50 (U-NII-1)	5250	-8.49	-8.22	-8.73	-8.26	-2.40	11.28	Pass
50 (U-NII-2A)	5250	-7.71	-7.53	-8.00	-7.61	-1.69	5.28	Pass
114	5570	-7.32	-7.30	-7.42	-7.57	-1.38	5.28	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 11.72 dBi > 6dBi, so the power density limit shall be reduced to $17 - (11.72 - 6) = 11.28$ dBm/MHz.
- For U-NII-2A, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (11.72 - 6) = 5.28$ dBm/MHz.
- For U-NII-2C, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (11.72 - 6) = 5.28$ dBm/MHz.

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=4) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	144 (U-NII-3)	5720	-9.87	-7.65	6.02	-1.63	24.28	Pass
	149	5745	0.59	2.81	6.02	8.83	24.28	Pass
	157	5785	0.52	2.74	6.02	8.76	24.28	Pass
	165	5825	-0.07	2.15	6.02	8.17	24.28	Pass
Chain 1	144 (U-NII-3)	5720	-9.62	-7.4	6.02	-1.38	24.28	Pass
	149	5745	0.26	2.48	6.02	8.5	24.28	Pass
	157	5785	0.57	2.79	6.02	8.81	24.28	Pass
	165	5825	0.51	2.73	6.02	8.75	24.28	Pass
Chain 2	144 (U-NII-3)	5720	-9.88	-7.66	6.02	-1.64	24.28	Pass
	149	5745	0.84	3.06	6.02	9.08	24.28	Pass
	157	5785	0.97	3.19	6.02	9.21	24.28	Pass
	165	5825	0.99	3.21	6.02	9.23	24.28	Pass
Chain 3	144 (U-NII-3)	5720	-9.8	-7.58	6.02	-1.56	24.28	Pass
	149	5745	0.73	2.95	6.02	8.97	24.28	Pass
	157	5785	0.59	2.81	6.02	8.83	24.28	Pass
	165	5825	0.34	2.56	6.02	8.58	24.28	Pass

Notes:

- Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (4 of TX antenna elements)
- For U-NII-3, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (11.72 - 6) = 24.28$ dBm/500kHz.

802.11ax (HE20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=4) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	144 (U-NII-3)	5720	-10.46	-8.24	6.02	-2.22	24.28	Pass
	149	5745	-0.91	1.31	6.02	7.33	24.28	Pass
	157	5785	-1.23	0.99	6.02	7.01	24.28	Pass
	165	5825	-1.43	0.79	6.02	6.81	24.28	Pass
Chain 1	144 (U-NII-3)	5720	-10.09	-7.87	6.02	-1.85	24.28	Pass
	149	5745	-0.86	1.36	6.02	7.38	24.28	Pass
	157	5785	-1.13	1.09	6.02	7.11	24.28	Pass
	165	5825	-0.87	1.35	6.02	7.37	24.28	Pass
Chain 2	144 (U-NII-3)	5720	-10.36	-8.14	6.02	-2.12	24.28	Pass
	149	5745	-0.65	1.57	6.02	7.59	24.28	Pass
	157	5785	-0.66	1.56	6.02	7.58	24.28	Pass
	165	5825	-0.49	1.73	6.02	7.75	24.28	Pass
Chain 3	144 (U-NII-3)	5720	-10.36	-8.14	6.02	-2.12	24.28	Pass
	149	5745	-0.66	1.56	6.02	7.58	24.28	Pass
	157	5785	-1.1	1.12	6.02	7.14	24.28	Pass
	165	5825	-1.42	0.8	6.02	6.82	24.28	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
3. For U-NII-3, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (11.72 - 6) = 24.28$ dBm/500kHz.

802.11ax (HE40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=4) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	142 (U-NII-3)	5710	-10.77	-8.55	6.02	-2.53	24.28	Pass
	151	5755	-3.53	-1.31	6.02	4.71	24.28	Pass
	159	5795	-3.77	-1.55	6.02	4.47	24.28	Pass
Chain 1	142 (U-NII-3)	5710	-10.99	-8.77	6.02	-2.75	24.28	Pass
	151	5755	-3.41	-1.19	6.02	4.83	24.28	Pass
	159	5795	-3.5	-1.28	6.02	4.74	24.28	Pass
Chain 2	142 (U-NII-3)	5710	-11.38	-9.16	6.02	-3.14	24.28	Pass
	151	5755	-3.29	-1.07	6.02	4.95	24.28	Pass
	159	5795	-3.05	-0.83	6.02	5.19	24.28	Pass
Chain 3	142 (U-NII-3)	5710	-10.67	-8.45	6.02	-2.43	24.28	Pass
	151	5755	-3.51	-1.29	6.02	4.73	24.28	Pass
	159	5795	-3.7	-1.48	6.02	4.54	24.28	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
3. For U-NII-3, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (11.72 - 6) = 24.28$ dBm/500kHz.

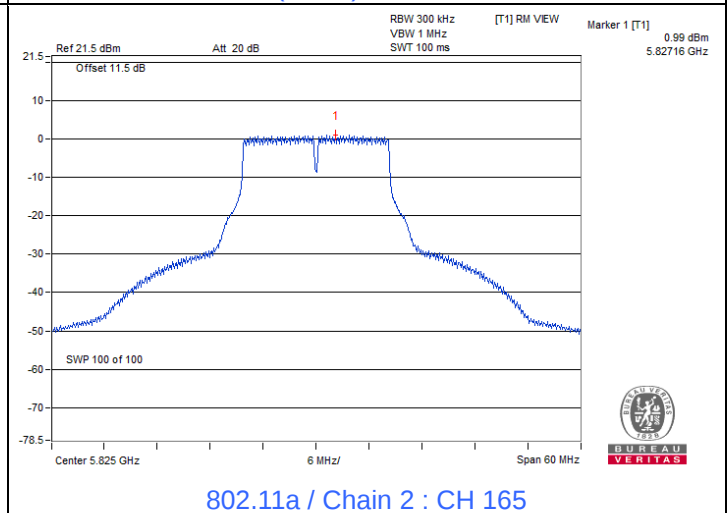
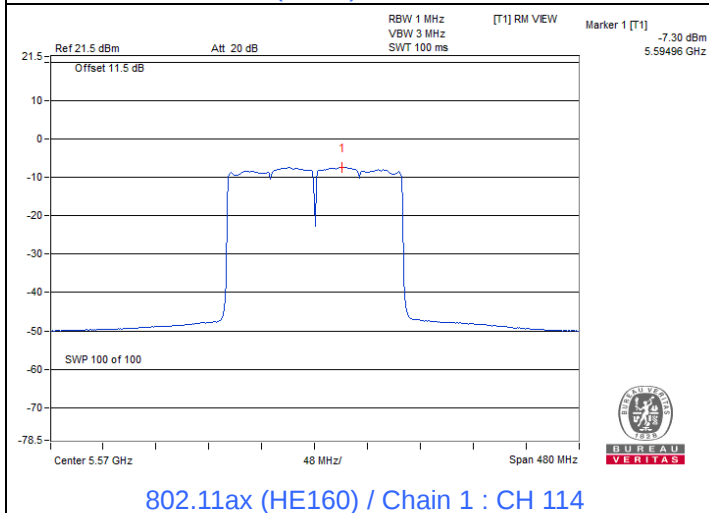
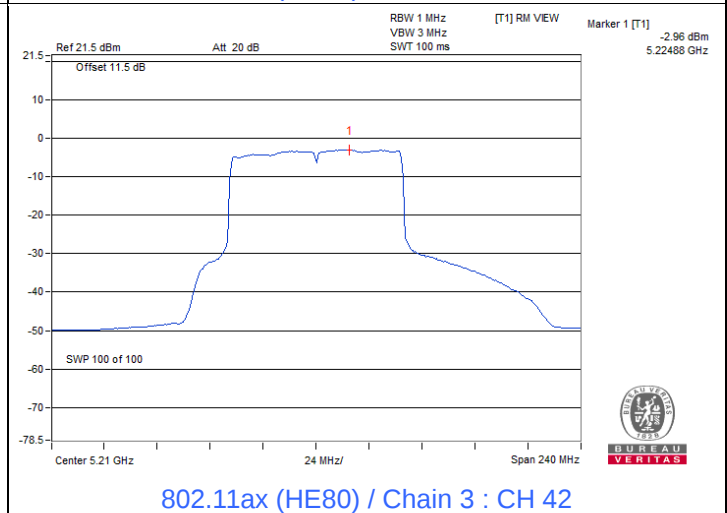
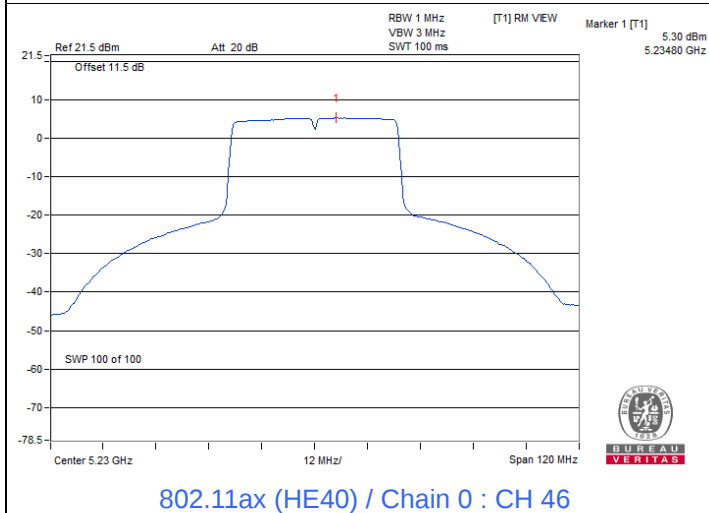
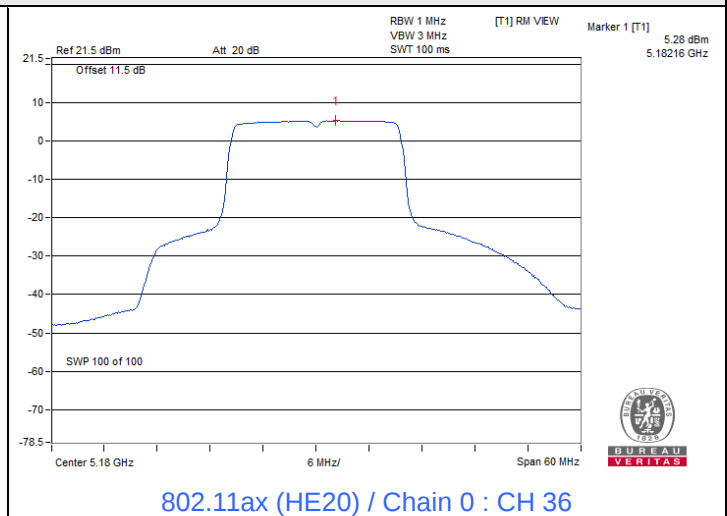
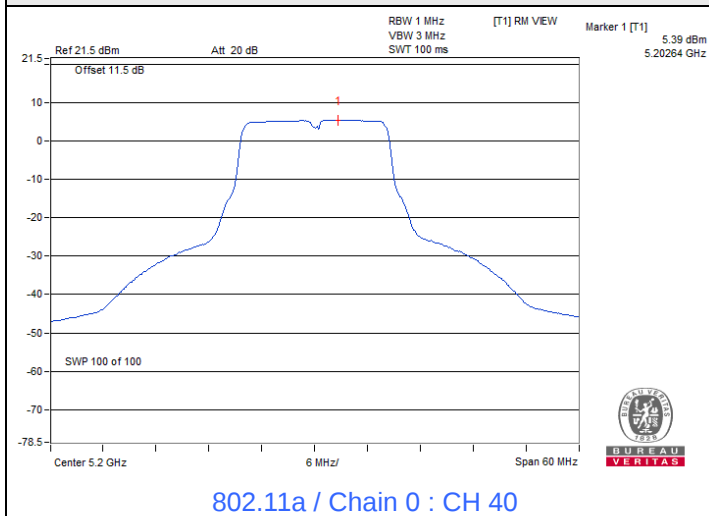
802.11ax (HE80)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=4) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	138 (U-NII-3)	5690	-13.67	-11.45	6.02	-5.43	24.28	Pass
	155	5775	-7.84	-5.62	6.02	0.4	24.28	Pass
Chain 1	138 (U-NII-3)	5690	-13.56	-11.34	6.02	-5.32	24.28	Pass
	155	5775	-7.79	-5.57	6.02	0.45	24.28	Pass
Chain 2	138 (U-NII-3)	5690	-14.01	-11.79	6.02	-5.77	24.28	Pass
	155	5775	-7.51	-5.29	6.02	0.73	24.28	Pass
Chain 3	138 (U-NII-3)	5690	-13.45	-11.23	6.02	-5.21	24.28	Pass
	155	5775	-7.44	-5.22	6.02	0.8	24.28	Pass

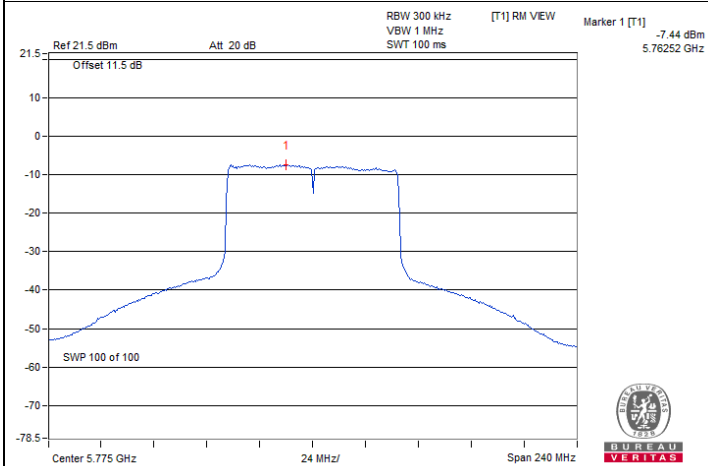
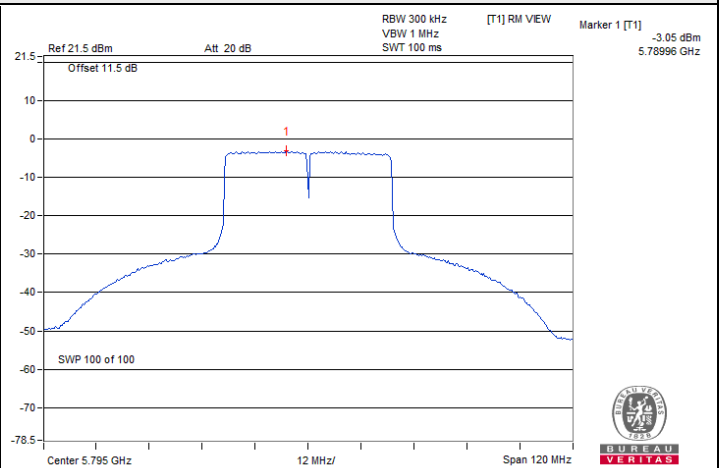
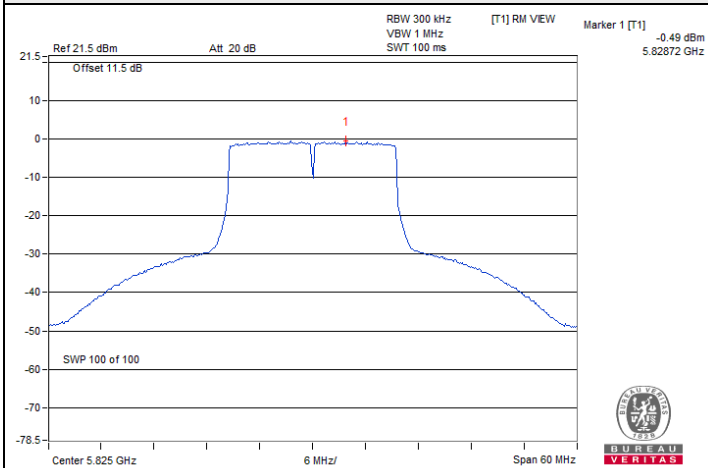
Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
3. For U-NII-3, the directional gain is 11.72 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (11.72 - 6) = 24.28$ dBm/500kHz.

Spectrum Plot of Maximum Value



Spectrum Plot of Maximum Value



7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode A_CDD

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	3.18	3.18	3.18	3.18	0.5	Pass
149	5745	16.43	16.40	16.42	16.42	0.5	Pass
157	5785	16.42	16.40	16.43	16.42	0.5	Pass
165	5825	16.42	16.40	16.42	16.42	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	4.52	4.48	4.51	4.47	0.5	Pass
149	5745	19.08	19.00	19.01	19.00	0.5	Pass
157	5785	19.13	18.98	19.02	19.02	0.5	Pass
165	5825	19.06	18.99	19.01	19.00	0.5	Pass

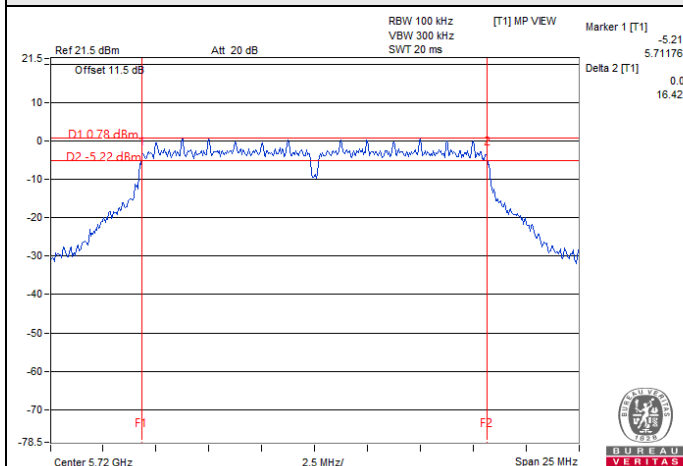
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
142 (U-NII-3)	5710	4.00	3.87	3.93	3.92	0.5	Pass
151	5755	38.10	37.92	38.01	37.96	0.5	Pass
159	5795	38.02	37.84	37.89	38.03	0.5	Pass

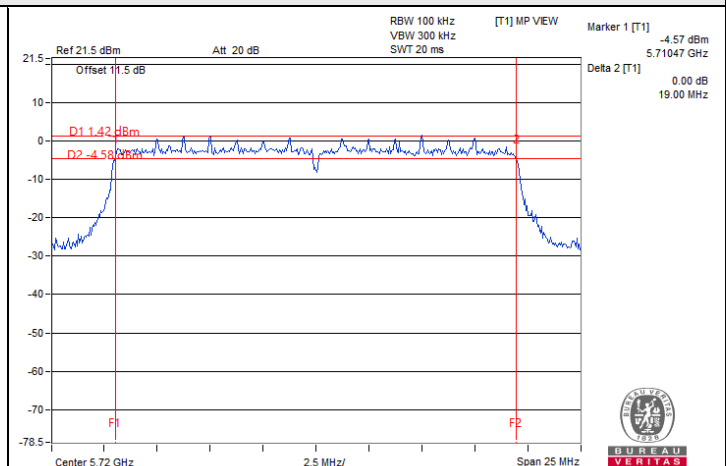
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
138 (U-NII-3)	5690	3.97	3.34	3.83	3.69	0.5	Pass
155	5775	78.10	77.68	77.47	77.29	0.5	Pass

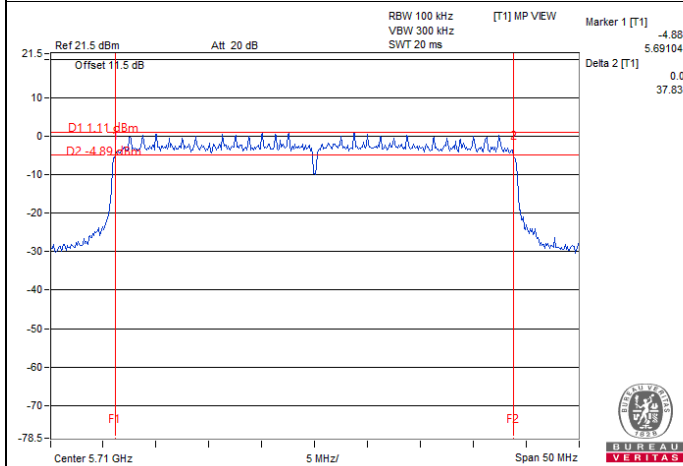
Spectrum Plot of Minimum Value



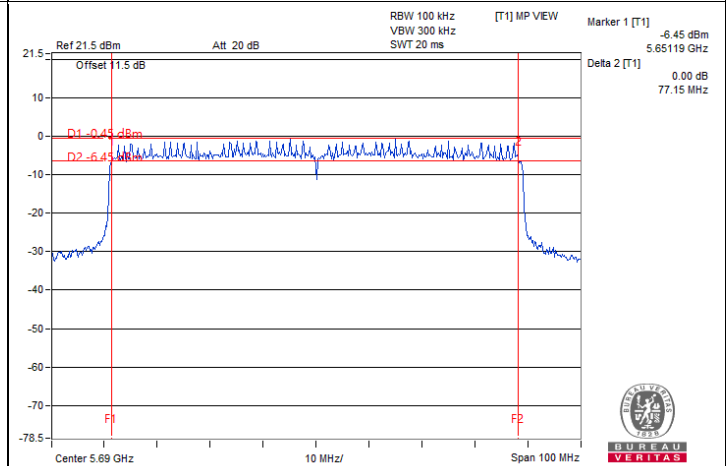
802.11a / Chain 0 : CH 144 (U-NII-3)



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



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



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

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

7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode A_CDD

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	17.28	17.28	17.28	17.28
40	5200	17.28	17.28	17.16	17.16
48	5240	17.40	17.28	17.28	17.40
52	5260	17.28	17.28	17.28	17.28
60	5300	17.40	17.40	17.28	17.28
64	5320	17.40	17.28	17.28	17.28
100	5500	17.52	17.52	17.28	17.40
116	5580	17.40	17.40	17.28	17.52
140	5700	17.16	17.16	16.92	16.92
144 (U-NII-2C)	5720	13.76	13.64	13.76	13.88
144 (U-NII-3)	5720	3.64	3.64	3.64	3.52
149	5745	17.40	17.52	17.28	17.28
157	5785	17.40	18.24	17.52	17.16
165	5825	17.40	17.64	17.40	17.16

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	19.32	19.32	19.32	19.20
40	5200	19.20	19.32	19.32	19.32
48	5240	19.20	19.32	19.32	19.32
52	5260	19.32	19.20	19.20	19.20
60	5300	19.20	19.32	19.32	19.20
64	5320	19.32	19.32	19.32	19.32
100	5500	19.44	19.32	19.32	19.32
116	5580	19.32	19.32	19.32	19.20
140	5700	19.20	19.20	19.08	19.20
144 (U-NII-2C)	5720	14.72	14.72	14.72	14.72
144 (U-NII-3)	5720	4.60	4.60	4.60	4.60
149	5745	19.32	19.32	19.32	19.32
157	5785	19.32	19.32	19.32	19.32
165	5825	19.20	19.32	19.20	19.32

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	39.12	38.40	38.40	38.40
46	5230	38.40	38.40	38.40	38.40
54	5270	38.16	38.16	38.16	38.40
62	5310	38.16	38.16	38.16	38.16
102	5510	38.40	38.16	38.40	38.40
110	5550	38.40	38.40	38.40	38.40
134	5670	38.40	38.16	38.16	38.16
142 (U-NII-2C)	5710	34.68	34.68	34.68	34.68
142 (U-NII-3)	5710	4.44	4.44	4.44	4.44
151	5755	38.16	38.64	38.16	38.16
159	5795	38.16	38.40	38.16	38.16

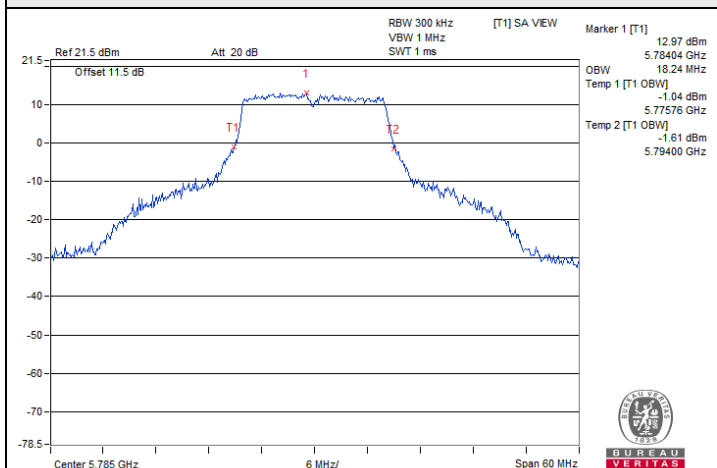
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.76	77.76	77.76	77.76
58	5290	77.28	77.28	77.28	77.28
106	5530	77.28	77.28	77.76	77.76
122	5610	77.28	77.76	77.76	77.76
138 (U-NII-2C)	5690	74.84	74.84	74.84	74.84
138 (U-NII-3)	5690	4.36	3.88	4.36	4.36
155	5775	77.28	77.28	77.28	77.28

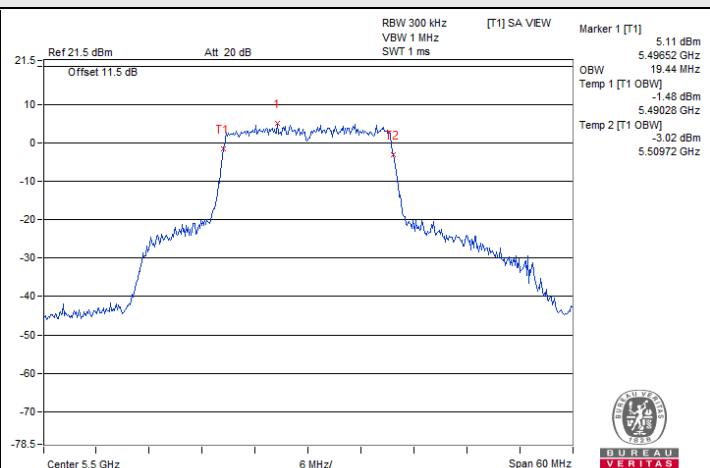
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1)	5250	77.91	77.91	77.91	77.91
50 (U-NII-2A)	5250	78.61	78.61	78.61	78.61
114	5570	157.44	157.44	157.44	157.44

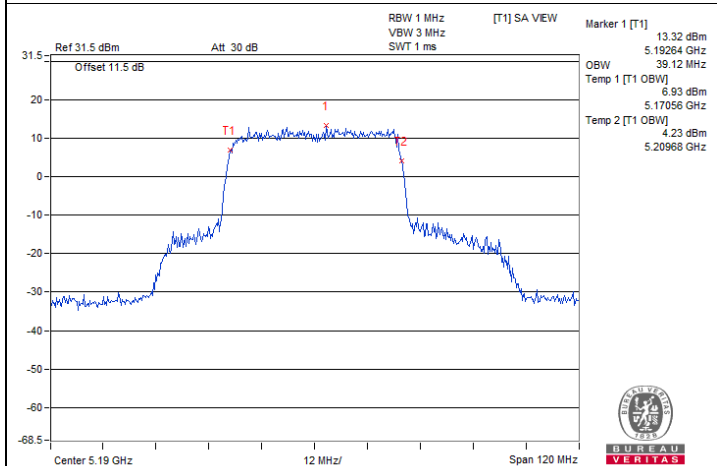
Spectrum Plot of Maximum Value



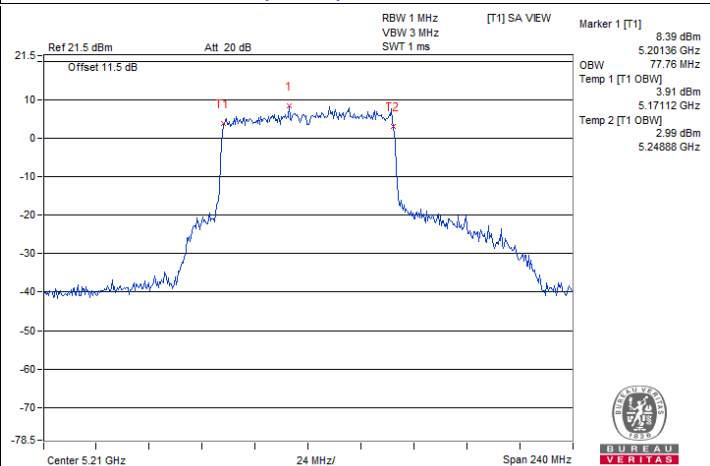
802.11a / Chain 1 : CH 157



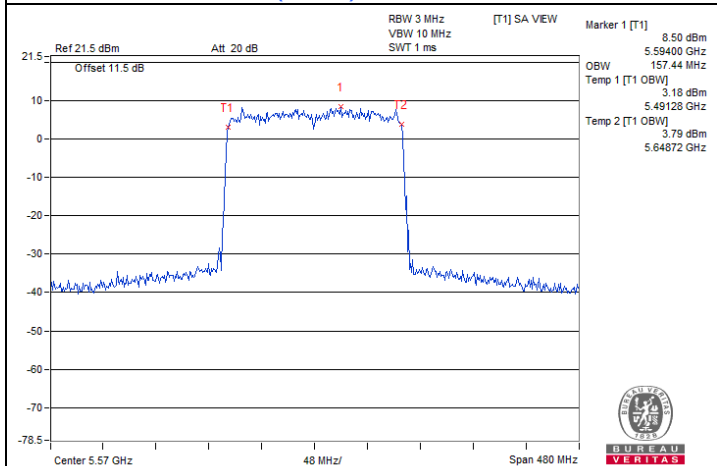
802.11ax (HE20) / Chain 0 : CH 100



802.11ax (HE40) / Chain 0 : CH 38

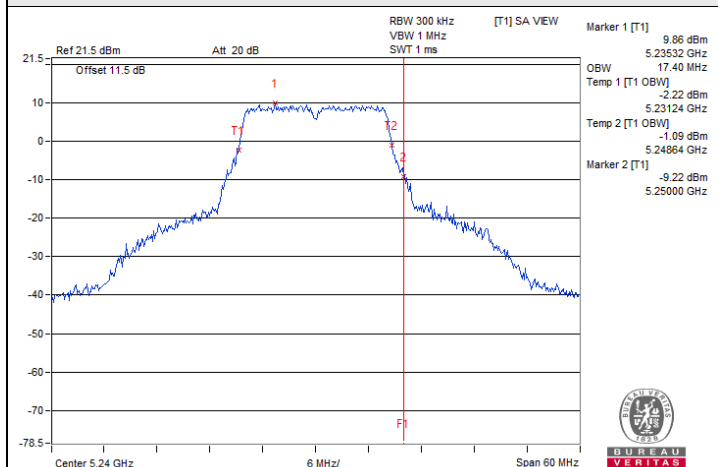


802.11ax (HE80) / Chain 0 : CH 42

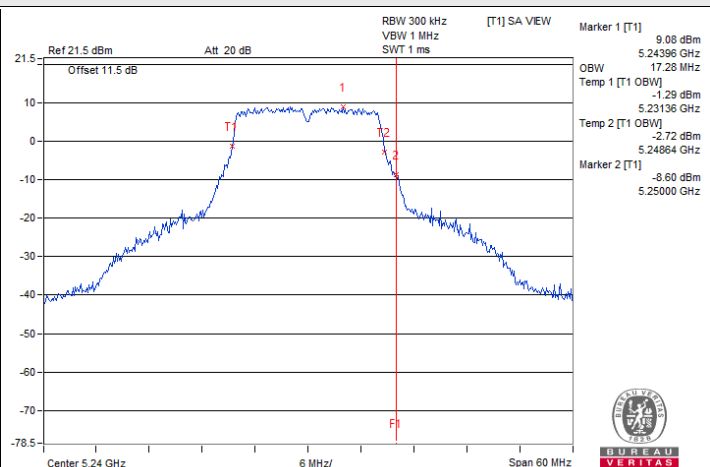


802.11ax (HE160) / Chain 0 : CH 114

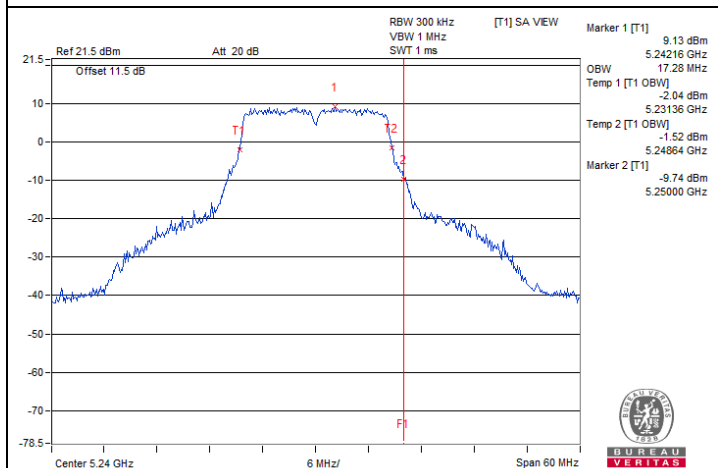
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



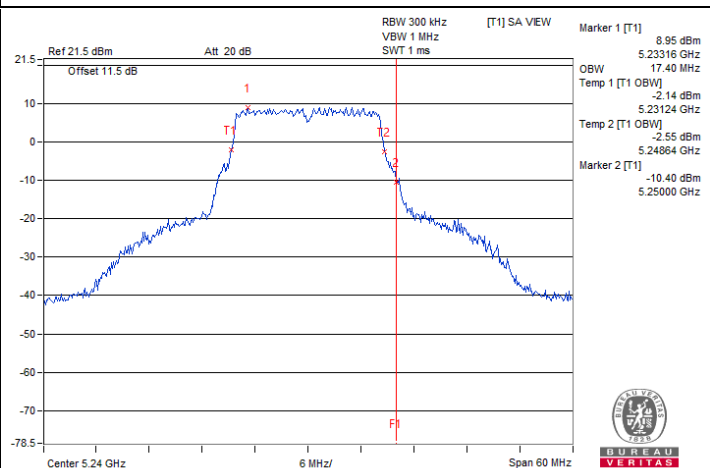
802.11a / Chain 0 : CH 48



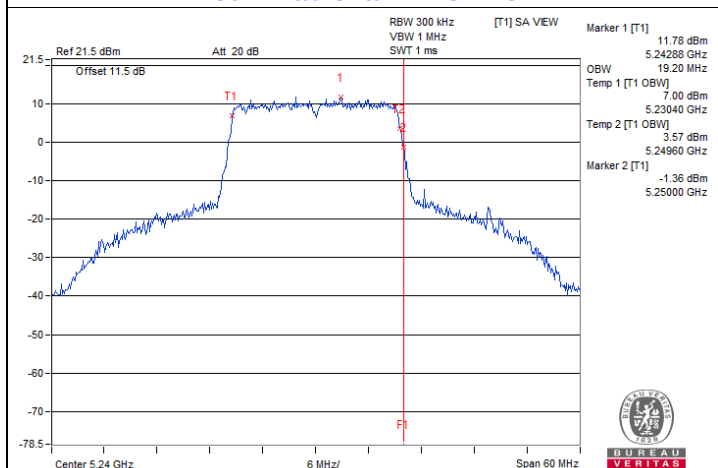
802.11a / Chain 1 : CH 48



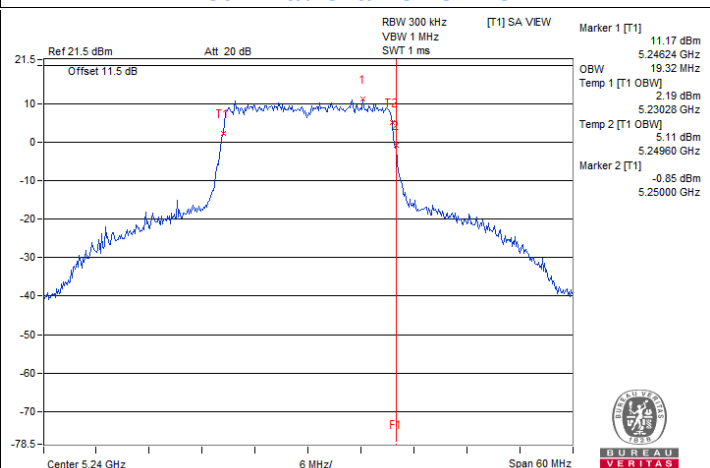
802.11a / Chain 2 : CH 48



802.11a / Chain 3 : CH 48

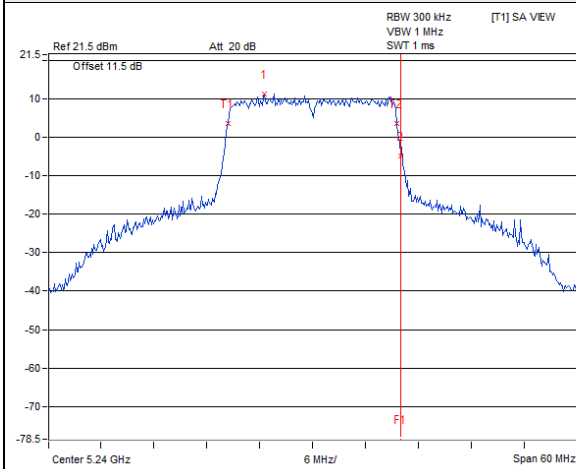


802.11ax (HE20) / Chain 0 : CH 48

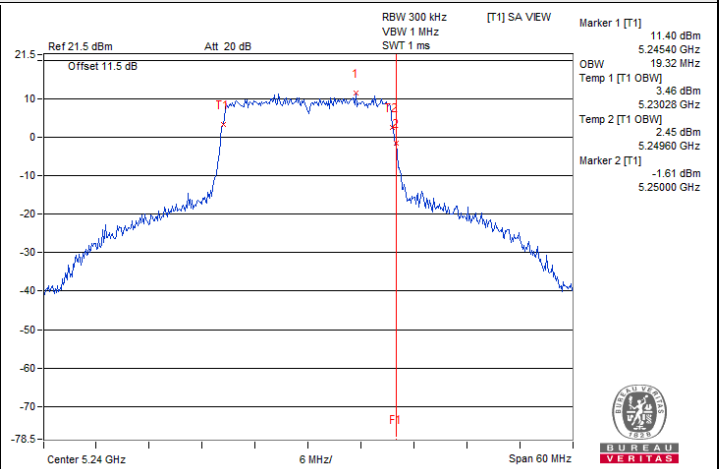


802.11ax (HE20) / Chain 1 : CH 48

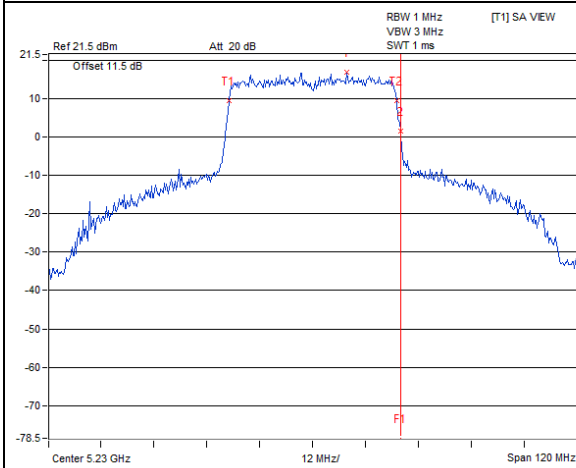
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



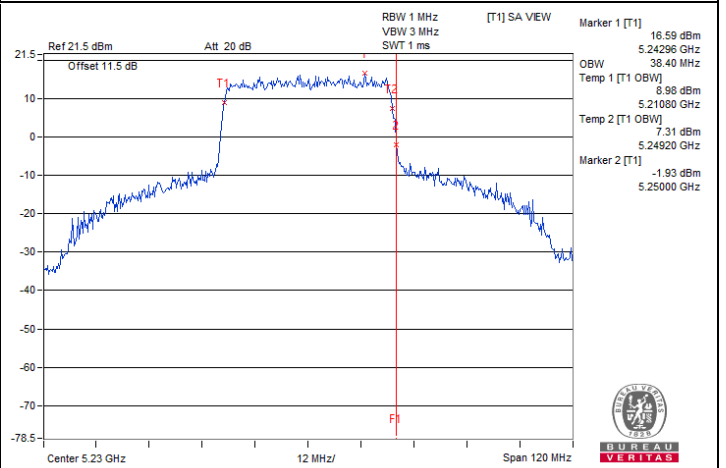
802.11ax (HE20) / Chain 2 : CH 48



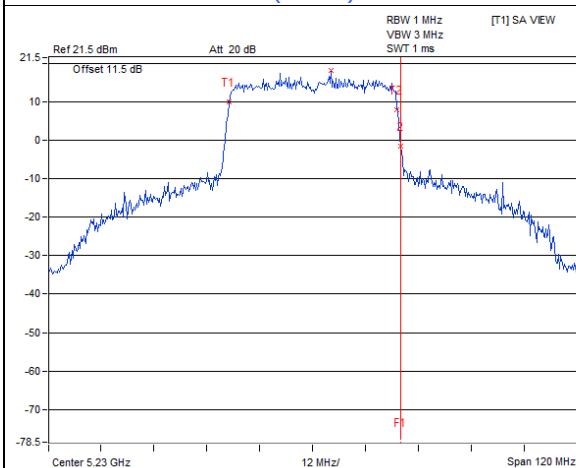
802.11ax (HE20) / Chain 3 : CH 48



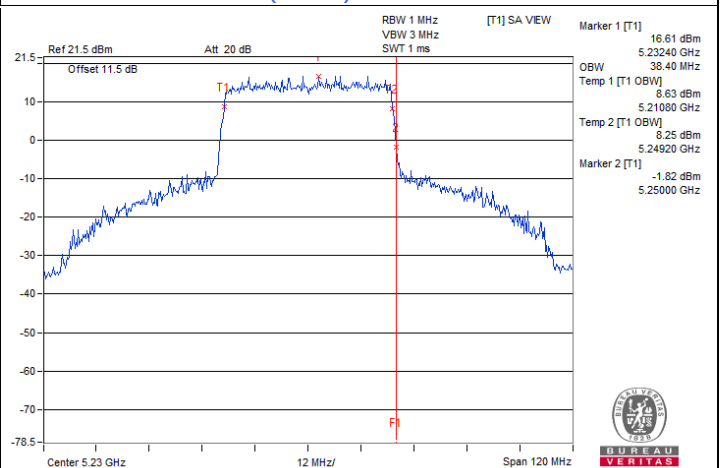
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46

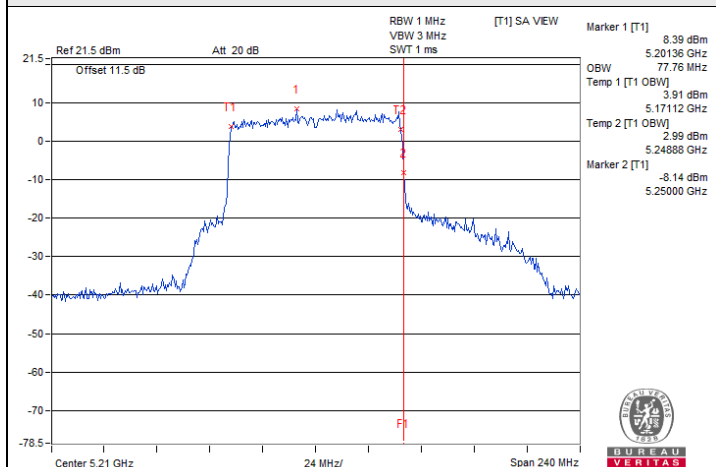


802.11ax (HE40) / Chain 2 : CH 46

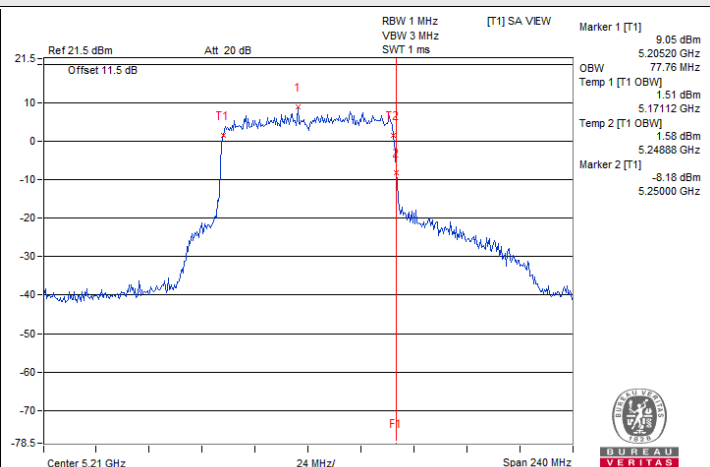


802.11ax (HE40) / Chain 3 : CH 46

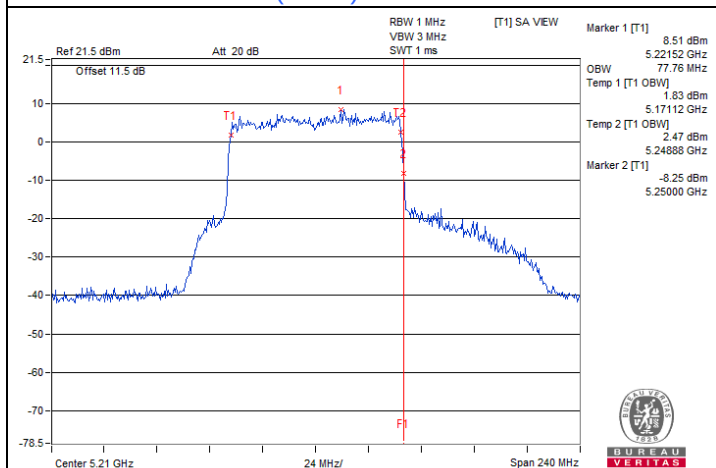
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



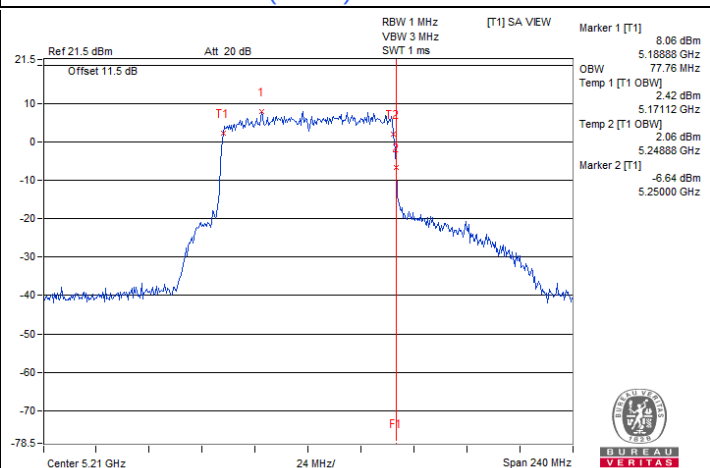
802.11ax (HE80) / Chain 0 : CH 42



802.11ax (HE80) / Chain 1 : CH 42

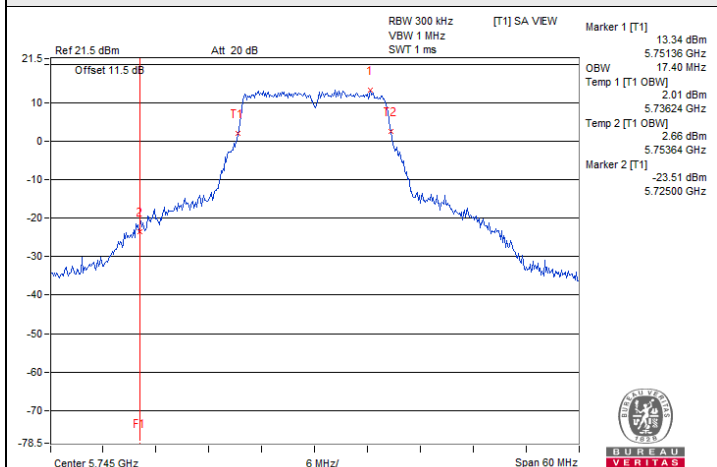


802.11ax (HE80) / Chain 2 : CH 42

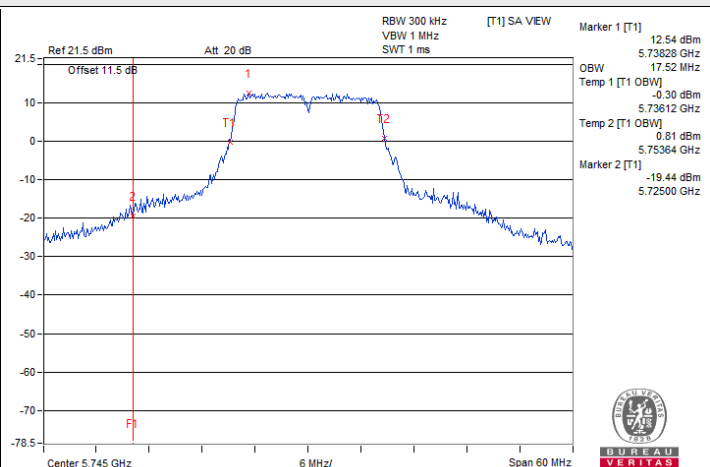


802.11ax (HE80) / Chain 3 : CH 42

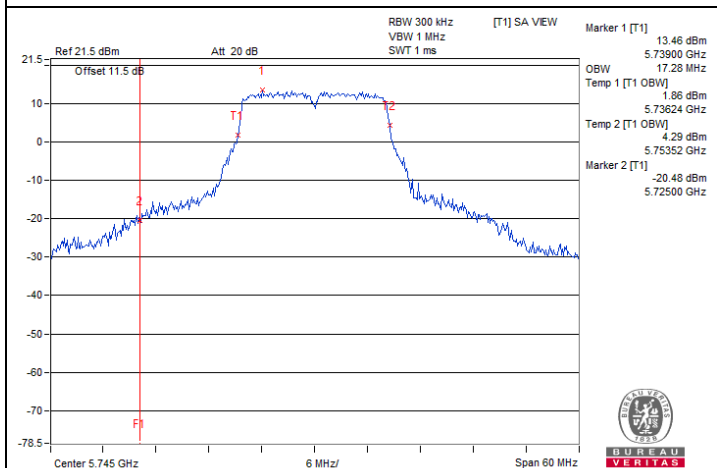
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



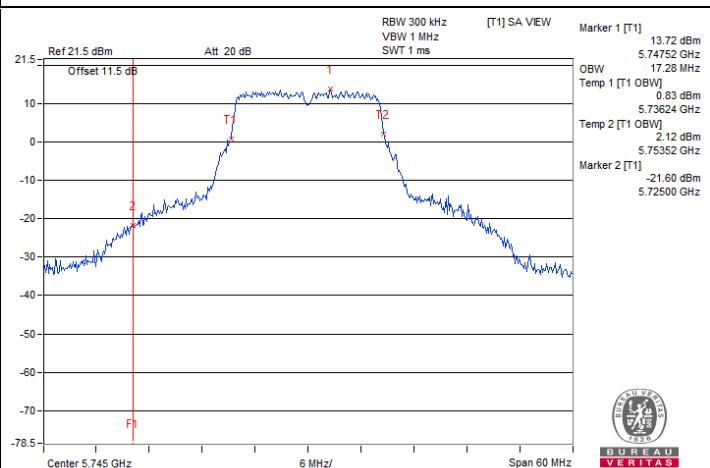
802.11a / Chain 0 : CH 149



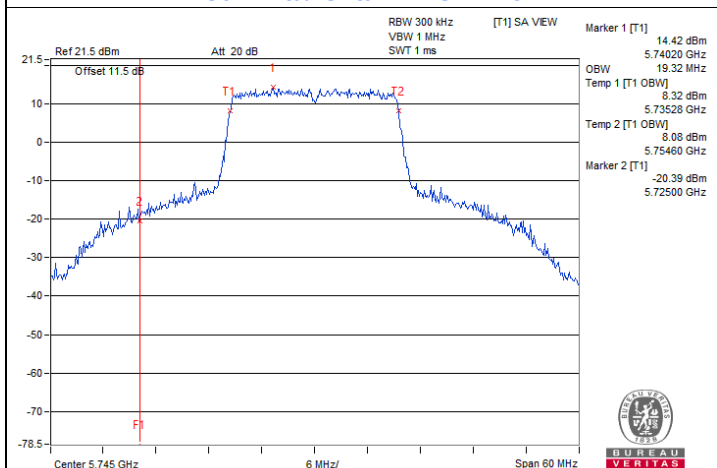
802.11a / Chain 1 : CH 149



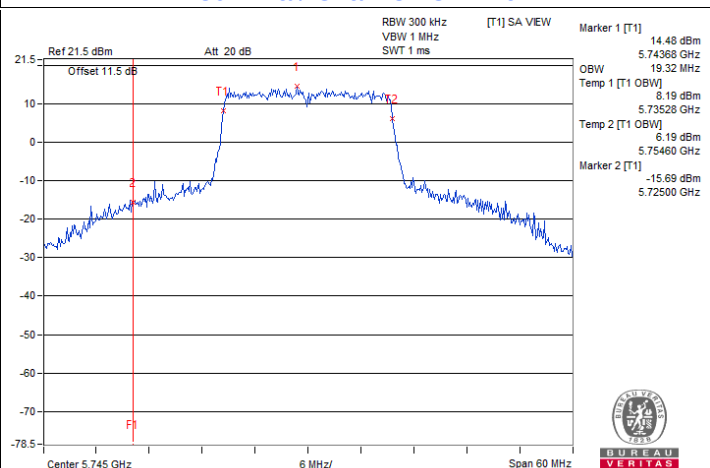
802.11a / Chain 2 : CH 149



802.11a / Chain 3 : CH 149

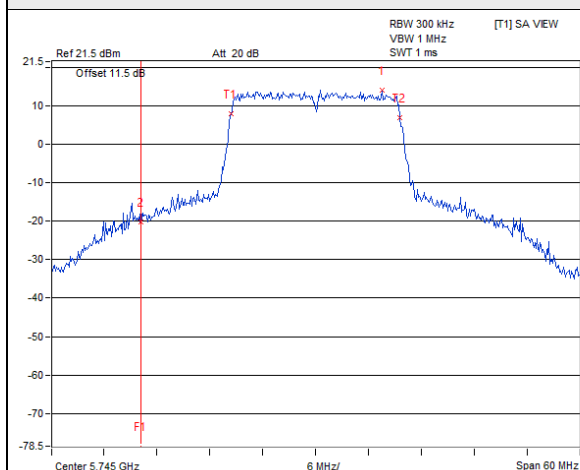


802.11ax (HE20) / Chain 0 : CH 149

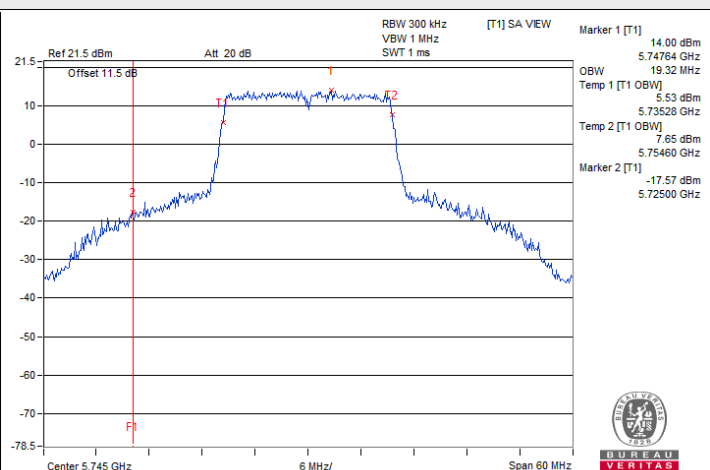


802.11ax (HE20) / Chain 1 : CH 149

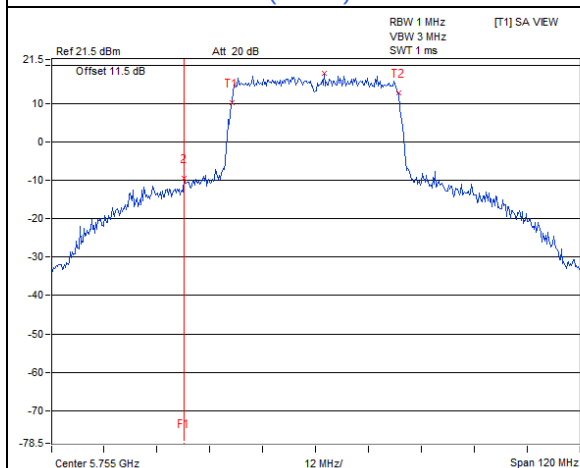
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



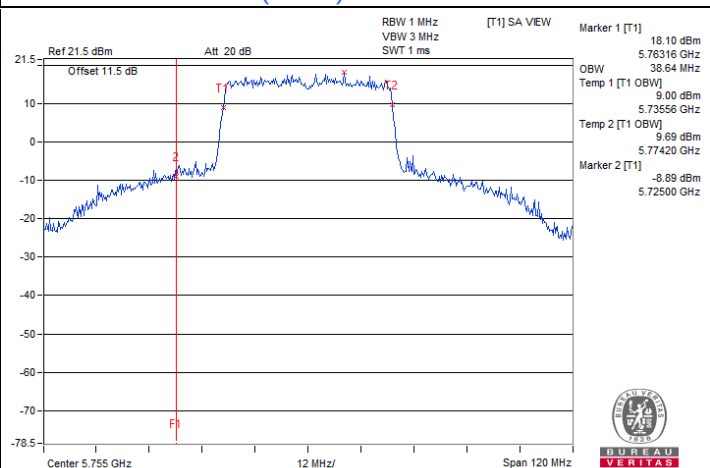
802.11ax (HE20) / Chain 2 : CH 149



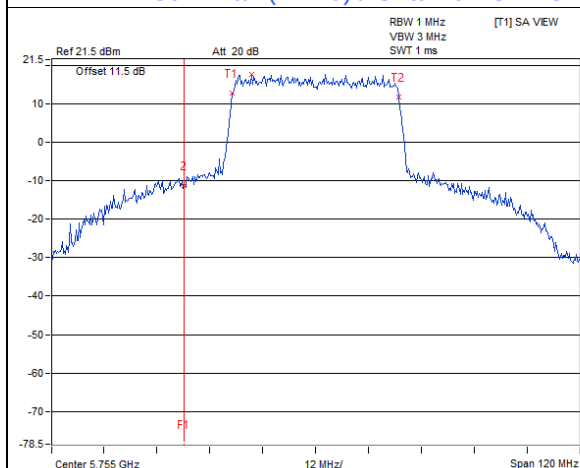
802.11ax (HE20) / Chain 3 : CH 149



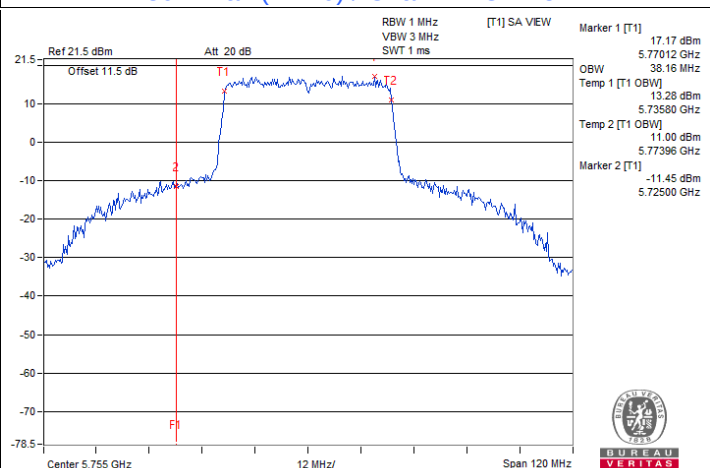
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151

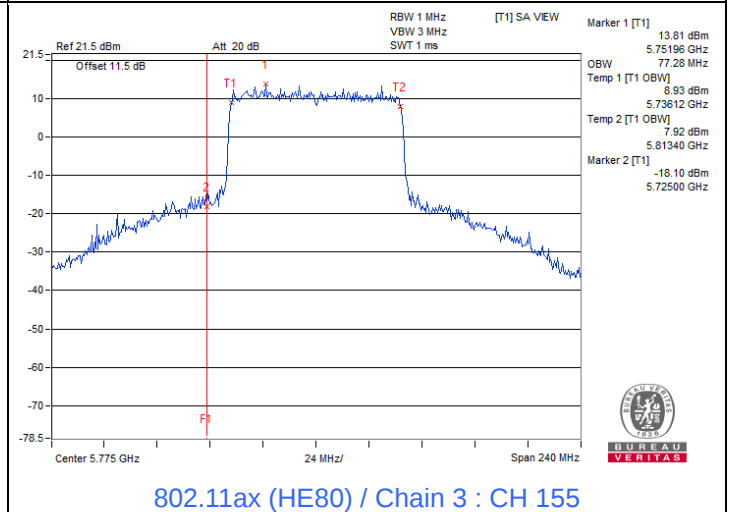
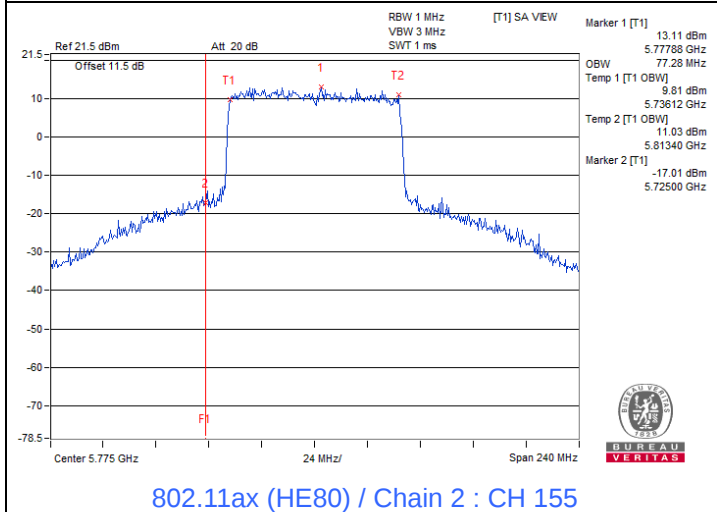
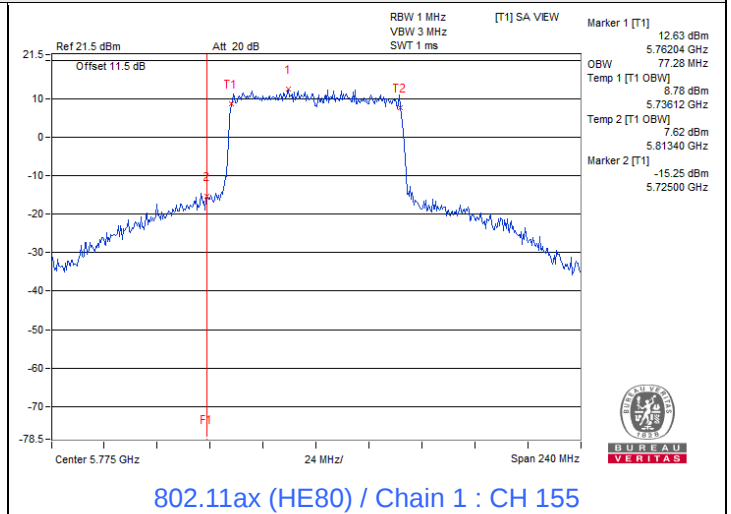
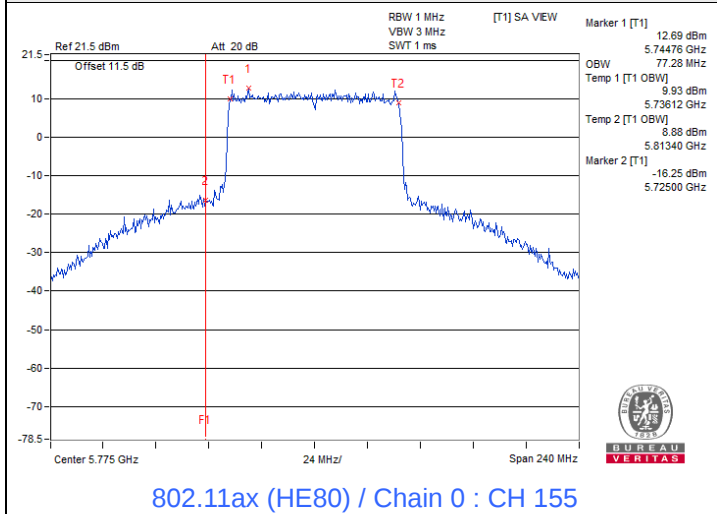


802.11ax (HE40) / Chain 2 : CH 151



802.11ax (HE40) / Chain 3 : CH 151

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



7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode A_CDD

802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
40	120	5179.9769	Pass	5179.9758	Pass	5179.9727	Pass	5179.9769	Pass
30	120	5180.01	Pass	5180.011	Pass	5180.0144	Pass	5180.0144	Pass
20	120	5180.0057	Pass	5180.007	Pass	5180.0041	Pass	5180.0053	Pass
10	120	5180.0019	Pass	5180.0036	Pass	5180.0022	Pass	5180.0026	Pass
0	120	5179.993	Pass	5179.9927	Pass	5179.9921	Pass	5179.9939	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5180.0027	Pass	5179.9997	Pass	5180.0022	Pass	5180.0028	Pass
	120	5180.0057	Pass	5180.007	Pass	5180.0041	Pass	5180.0053	Pass
	102	5180.0112	Pass	5180.0115	Pass	5180.0078	Pass	5180.01	Pass

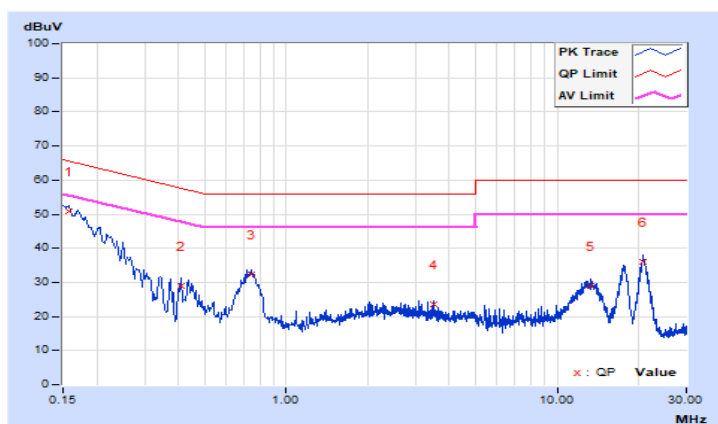
7.7 AC Power Conducted Emissions

RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	150kHz ~ 30MHz	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	Jed Wu		

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	0.15770	10.05	40.76	19.52	50.81	29.57	65.58	55.58	-14.77	-26.01
2	0.41000	10.21	18.89	7.97	29.10	18.18	57.65	47.65	-28.55	-29.47
3	0.74000	10.29	21.90	17.04	32.19	27.33	56.00	46.00	-23.81	-18.67
4	3.52400	10.47	13.05	8.68	23.52	19.15	56.00	46.00	-32.48	-26.85
5	13.22000	10.74	18.25	13.54	28.99	24.28	60.00	50.00	-31.01	-25.72
6	20.78400	10.83	25.34	20.47	36.17	31.30	60.00	50.00	-23.83	-18.70

Remarks:

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

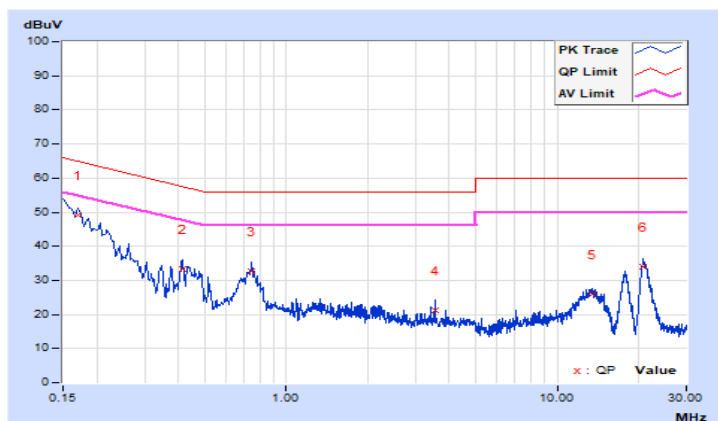


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Jed Wu		

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	0.16977	10.11	39.10	20.19	49.21	30.30	64.97	54.97	-15.76	-24.67
2	0.41361	10.19	23.29	12.11	33.48	22.30	57.58	47.58	-24.10	-25.28
3	0.74800	10.24	22.42	17.57	32.66	27.81	56.00	46.00	-23.34	-18.19
4	3.53600	10.40	10.94	6.88	21.34	17.28	56.00	46.00	-34.66	-28.72
5	13.45600	10.74	15.13	10.51	25.87	21.25	60.00	50.00	-34.13	-28.75
6	20.68400	10.83	23.13	18.28	33.96	29.11	60.00	50.00	-26.04	-20.89

Remarks:

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



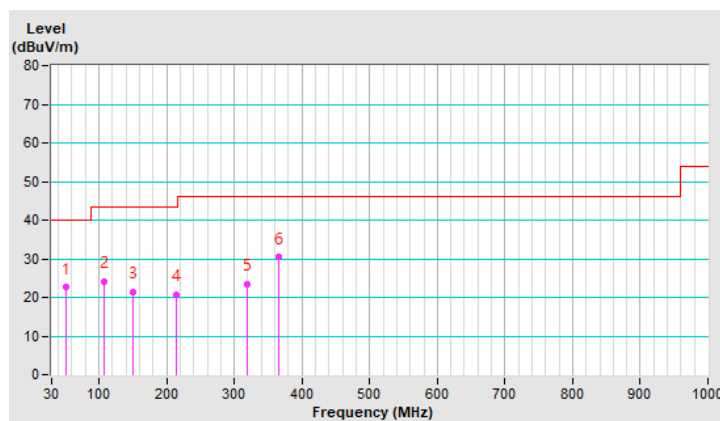
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Jed Wu		

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	51.00	22.6 QP	40.0	-17.4	1.31 H	138	31.1	-8.5
2	108.13	24.2 QP	43.5	-19.3	1.05 H	230	36.1	-11.9
3	151.15	21.5 QP	43.5	-22.0	1.46 H	248	29.8	-8.3
4	214.45	20.8 QP	43.5	-22.7	1.27 H	138	31.5	-10.7
5	318.91	23.5 QP	46.0	-22.5	1.06 H	267	29.0	-5.5
6	365.38	30.4 QP	46.0	-15.6	1.89 H	160	35.2	-4.8

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 of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

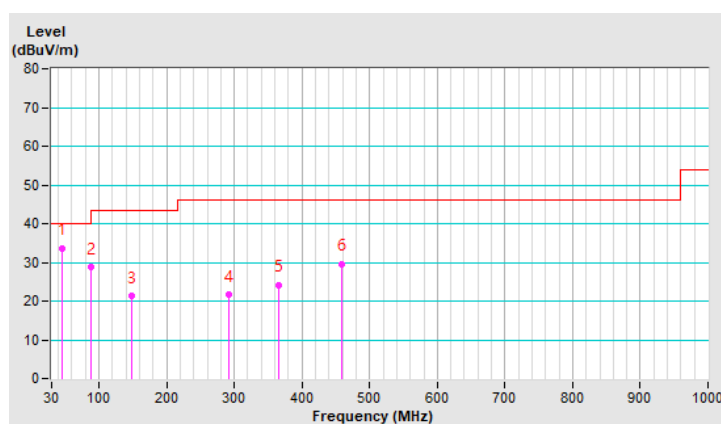


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Jed Wu		

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	44.99	33.6 QP	40.0	-6.4	1.12 V	70	42.5	-8.9
2	87.81	28.7 QP	40.0	-11.3	1.86 V	279	43.1	-14.4
3	148.78	21.2 QP	43.5	-22.3	1.04 V	100	29.6	-8.4
4	292.48	21.6 QP	46.0	-24.4	1.69 V	140	28.1	-6.5
5	365.38	24.1 QP	46.0	-21.9	1.37 V	72	28.9	-4.8
6	459.42	29.5 QP	46.0	-16.5	1.75 V	144	31.8	-2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.9 Unwanted Emissions above 1 GHz

CDD Mode_Mode A

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.2 PK	74.0	-12.8	3.38 H	332	52.9	8.3
2	5150.00	51.7 AV	54.0	-2.3	3.38 H	332	43.4	8.3
3	*5180.00	116.6 PK			3.38 H	332	108.2	8.4
4	*5180.00	107.8 AV			3.38 H	332	99.4	8.4
5	#10360.00	54.6 PK	68.2	-13.6	2.85 H	354	39.0	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.0 PK	74.0	-11.0	1.88 V	358	54.7	8.3
2	5150.00	53.1 AV	54.0	-0.9	1.88 V	358	44.8	8.3
3	*5180.00	120.5 PK			1.88 V	358	112.1	8.4
4	*5180.00	111.0 AV			1.88 V	358	102.6	8.4
5	#10360.00	55.1 PK	68.2	-13.1	1.43 V	326	39.5	15.6

Remarks:

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

RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	117.5 PK			3.29 H	336	109.1	8.4
2	*5200.00	109.2 AV			3.29 H	336	100.8	8.4
3	5350.00	64.6 PK	74.0	-9.4	3.29 H	336	55.5	9.1
4	5350.00	53.0 AV	54.0	-1.0	3.29 H	336	43.9	9.1
5	#10400.00	55.7 PK	68.2	-12.5	2.94 H	350	39.8	15.9
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	*5200.00	121.3 PK			1.79 V	2	112.9	8.4
2	*5200.00	112.5 AV			1.79 V	2	104.1	8.4
3	5350.00	63.6 PK	74.0	-10.4	1.79 V	2	54.5	9.1
4	5350.00	53.3 AV	54.0	-0.7	1.79 V	2	44.2	9.1
5	#10400.00	56.2 PK	68.2	-12.0	1.34 V	330	40.3	15.9

Remarks:

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

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	120.8 PK			3.28 H	340	112.0	8.8
2	*5240.00	112.1 AV			3.28 H	340	103.3	8.8
3	5350.00	64.6 PK	74.0	-9.4	3.28 H	340	55.5	9.1
4	5350.00	53.1 AV	54.0	-0.9	3.28 H	340	44.0	9.1
5	#10480.00	55.3 PK	68.2	-12.9	2.76 H	346	39.7	15.6
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	124.6 PK			1.78 V	6	115.8	8.8
2	*5240.00	115.4 AV			1.78 V	6	106.6	8.8
3	5350.00	65.1 PK	74.0	-8.9	1.78 V	6	56.0	9.1
4	5350.00	53.6 AV	54.0	-0.4	1.78 V	6	44.5	9.1
5	#10480.00	55.8 PK	68.2	-12.4	1.33 V	318	40.2	15.6

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.1 PK	74.0	-11.9	3.35 H	336	53.8	8.3
2	5150.00	51.2 AV	54.0	-2.8	3.35 H	336	42.9	8.3
3	*5260.00	114.2 PK			3.35 H	336	105.3	8.9
4	*5260.00	105.8 AV			3.35 H	336	96.9	8.9
5	#10520.00	55.2 PK	68.2	-13.0	2.81 H	358	39.6	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.8 PK	74.0	-11.2	1.85 V	2	54.5	8.3
2	5150.00	51.7 AV	54.0	-2.3	1.85 V	2	43.4	8.3
3	*5260.00	118.4 PK			1.85 V	2	109.5	8.9
4	*5260.00	109.6 AV			1.85 V	2	100.7	8.9
5	#10520.00	55.7 PK	68.2	-12.5	1.40 V	330	40.1	15.6

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 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	114.2 PK			2.52 H	331	105.1	9.1
2	*5300.00	106.1 AV			2.52 H	331	97.0	9.1
3	10600.00	54.6 PK	74.0	-19.4	1.98 H	353	38.8	15.8
4	10600.00	42.3 AV	54.0	-11.7	1.98 H	353	26.5	15.8
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	*5300.00	118.4 PK			2.68 V	7	109.3	9.1
2	*5300.00	109.9 AV			2.68 V	7	100.8	9.1
3	10600.00	55.1 PK	74.0	-18.9	2.23 V	335	39.3	15.8
4	10600.00	42.8 AV	54.0	-11.2	2.23 V	335	27.0	15.8

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 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	113.2 PK			2.63 H	329	104.1	9.1
2	*5320.00	104.0 AV			2.63 H	329	94.9	9.1
3	5350.00	62.8 PK	74.0	-11.2	2.63 H	329	53.7	9.1
4	5350.00	52.3 AV	54.0	-1.7	2.63 H	329	43.2	9.1
5	10640.00	55.5 PK	74.0	-18.5	2.09 H	351	39.7	15.8
6	10640.00	43.2 AV	54.0	-10.8	2.09 H	351	27.4	15.8
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	*5320.00	117.5 PK			2.57 V	9	108.4	9.1
2	*5320.00	109.1 AV			2.57 V	9	100.0	9.1
3	5350.00	63.1 PK	74.0	-10.9	2.57 V	9	54.0	9.1
4	5350.00	52.9 AV	54.0	-1.1	2.57 V	9	43.8	9.1
5	10640.00	56.0 PK	74.0	-18.0	2.34 V	337	40.2	15.8
6	10640.00	43.7 AV	54.0	-10.3	2.34 V	337	27.9	15.8

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 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.2 PK	74.0	-13.8	1.86 H	27	51.1	9.1
2	5460.00	49.4 AV	54.0	-4.6	1.86 H	27	40.3	9.1
3	#5470.00	60.7 PK	68.2	-7.5	1.86 H	27	51.7	9.0
4	*5500.00	109.9 PK			1.86 H	27	100.9	9.0
5	*5500.00	100.7 AV			1.86 H	27	91.7	9.0
6	11000.00	54.2 PK	74.0	-19.8	3.31 H	291	37.6	16.6
7	11000.00	43.0 AV	54.0	-11.0	3.31 H	291	26.4	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.5 PK	74.0	-10.5	2.54 V	0	54.4	9.1
2	5460.00	51.8 AV	54.0	-2.2	2.54 V	0	42.7	9.1
3	#5470.00	64.7 PK	68.2	-3.5	2.54 V	0	55.7	9.0
4	*5500.00	117.8 PK			2.54 V	0	108.8	9.0
5	*5500.00	109.8 AV			2.54 V	0	100.8	9.0
6	11000.00	55.1 PK	74.0	-18.9	2.53 V	289	38.5	16.6
7	11000.00	43.6 AV	54.0	-10.4	2.53 V	289	27.0	16.6

Remarks:

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

RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	109.7 PK			2.75 H	27	100.9	8.8
2	*5580.00	100.3 AV			2.75 H	27	91.5	8.8
3	11160.00	54.9 PK	74.0	-19.1	2.98 H	284	37.7	17.2
4	11160.00	43.7 AV	54.0	-10.3	2.98 H	284	26.5	17.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	117.4 PK			1.56 V	24	108.6	8.8
2	*5580.00	108.4 AV			1.56 V	24	99.6	8.8
3	11160.00	55.8 PK	74.0	-18.2	2.66 V	159	38.6	17.2
4	11160.00	44.3 AV	54.0	-9.7	2.66 V	159	27.1	17.2

Remarks:

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

RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	111.0 PK			3.94 H	22	102.6	8.4
2	*5700.00	101.0 AV			3.94 H	22	92.6	8.4
3	#5725.00	59.7 PK	68.2	-8.5	3.94 H	22	51.3	8.4
4	11400.00	54.8 PK	74.0	-19.2	2.98 H	288	37.6	17.2
5	11400.00	44.9 AV	54.0	-9.1	2.98 H	288	27.7	17.2
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	*5700.00	117.2 PK			1.66 V	303	108.8	8.4
2	*5700.00	108.7 AV			1.66 V	303	100.3	8.4
3	#5725.00	65.1 PK	68.2	-3.1	1.66 V	303	56.7	8.4
4	11400.00	55.7 PK	74.0	-18.3	2.86 V	276	38.5	17.2
5	11400.00	44.8 AV	54.0	-9.2	2.86 V	276	27.6	17.2

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 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Ian Chang		

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	59.2 PK	68.2	-9.0	3.18 H	360	50.2	9.0
2	*5720.00	111.1 PK			3.18 H	360	102.7	8.4
3	*5720.00	102.2 AV			3.18 H	360	93.8	8.4
4	11440.00	55.1 PK	74.0	-18.9	3.05 H	267	37.6	17.5
5	11440.00	44.1 AV	54.0	-9.9	3.05 H	267	26.6	17.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	60.4 PK	68.2	-7.8	1.59 V	327	51.4	9.0
2	*5720.00	116.1 PK			1.59 V	327	107.7	8.4
3	*5720.00	107.1 AV			1.59 V	327	98.7	8.4
4	11440.00	56.1 PK	74.0	-17.9	2.69 V	241	38.6	17.5
5	11440.00	45.0 AV	54.0	-9.0	2.69 V	241	27.5	17.5

Remarks:

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

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	#5590.85	63.4 PK	68.2	-4.8	3.90 H	307	54.8	8.6
2	*5745.00	120.1 PK			3.90 H	307	111.8	8.3
3	*5745.00	111.9 AV			3.90 H	307	103.6	8.3
4	#5949.00	62.9 PK	68.2	-5.3	3.90 H	307	54.3	8.6
5	11490.00	56.8 PK	74.0	-17.2	3.77 H	214	39.0	17.8
6	11490.00	45.7 AV	54.0	-8.3	3.77 H	214	27.9	17.8
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	#5605.10	64.5 PK	68.2	-3.7	2.31 V	30	55.9	8.6
2	*5745.00	124.9 PK			2.31 V	30	116.6	8.3
3	*5745.00	115.8 AV			2.31 V	30	107.5	8.3
4	#5949.00	62.9 PK	68.2	-5.3	2.31 V	30	54.3	8.6
5	11490.00	57.3 PK	74.0	-16.7	3.41 V	294	39.5	17.8
6	11490.00	46.2 AV	54.0	-7.8	3.41 V	294	28.4	17.8

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	#5647.85	64.0 PK	68.2	-4.2	3.70 H	302	55.6	8.4
2	*5785.00	119.4 PK			3.70 H	302	111.2	8.2
3	*5785.00	110.4 AV			3.70 H	302	102.2	8.2
4	#5990.32	64.6 PK	68.2	-3.6	3.70 H	302	55.8	8.8
5	11570.00	56.3 PK	74.0	-17.7	3.57 H	325	38.5	17.8
6	11570.00	45.2 AV	54.0	-8.8	3.57 H	325	27.4	17.8
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	#5648.32	65.4 PK	68.2	-2.8	2.11 V	35	57.0	8.4
2	*5785.00	124.3 PK			2.11 V	35	116.1	8.2
3	*5785.00	115.5 AV			2.11 V	35	107.3	8.2
4	#5961.82	64.3 PK	68.2	-3.9	2.11 V	35	55.7	8.6
5	11570.00	56.8 PK	74.0	-17.2	3.21 V	299	39.0	17.8
6	11570.00	45.7 AV	54.0	-8.3	3.21 V	299	27.9	17.8

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	#5630.27	63.7 PK	68.2	-4.5	3.77 H	301	55.2	8.5
2	*5825.00	119.7 PK			3.77 H	301	111.5	8.2
3	*5825.00	111.0 AV			3.77 H	301	102.8	8.2
4	#6000.77	64.1 PK	68.2	-4.1	3.77 H	301	55.3	8.8
5	11650.00	56.4 PK	74.0	-17.6	3.64 H	326	38.7	17.7
6	11650.00	45.3 AV	54.0	-8.7	3.64 H	326	27.6	17.7
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	#5628.85	65.8 PK	68.2	-2.4	2.18 V	36	57.3	8.5
2	*5825.00	124.3 PK			2.18 V	36	116.1	8.2
3	*5825.00	115.3 AV			2.18 V	36	107.1	8.2
4	#5989.37	64.2 PK	68.2	-4.0	2.18 V	36	55.4	8.8
5	11650.00	56.9 PK	74.0	-17.1	3.14 V	298	39.2	17.7
6	11650.00	45.8 AV	54.0	-8.2	3.14 V	298	28.1	17.7

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.6 PK	74.0	-10.4	3.30 H	325	55.3	8.3
2	5150.00	52.1 AV	54.0	-1.9	3.30 H	325	43.8	8.3
3	*5180.00	116.7 PK			3.30 H	325	108.3	8.4
4	*5180.00	107.2 AV			3.30 H	325	98.8	8.4
5	#10360.00	54.9 PK	68.2	-13.3	2.77 H	347	39.3	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.8 PK	74.0	-6.2	1.80 V	5	59.5	8.3
2	5150.00	53.2 AV	54.0	-0.8	1.80 V	5	44.9	8.3
3	*5180.00	119.9 PK			1.80 V	5	111.5	8.4
4	*5180.00	109.8 AV			1.80 V	5	101.4	8.4
5	#10360.00	55.4 PK	68.2	-12.8	1.51 V	319	39.8	15.6

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	117.2 PK			3.00 H	278	108.8	8.4
2	*5200.00	109.0 AV			3.00 H	278	100.6	8.4
3	#10400.00	55.7 PK	68.2	-12.5	2.47 H	299	39.8	15.9
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	*5200.00	121.1 PK			1.36 V	304	112.7	8.4
2	*5200.00	112.2 AV			1.36 V	304	103.8	8.4
3	#10400.00	56.2 PK	68.2	-12.0	1.05 V	272	40.3	15.9

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	117.9 PK			3.01 H	275	109.1	8.8
2	*5240.00	108.6 AV			3.01 H	275	99.8	8.8
3	5350.00	62.7 PK	74.0	-11.3	3.01 H	275	53.6	9.1
4	5350.00	52.9 AV	54.0	-1.1	3.01 H	275	43.8	9.1
5	#10480.00	55.2 PK	68.2	-13.0	2.48 H	297	39.6	15.6
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	120.2 PK			1.50 V	303	111.4	8.8
2	*5240.00	111.4 AV			1.50 V	303	102.6	8.8
3	5350.00	63.7 PK	74.0	-10.3	1.50 V	303	54.6	9.1
4	5350.00	53.3 AV	54.0	-0.7	1.50 V	303	44.2	9.1
5	#10480.00	55.7 PK	68.2	-12.5	1.05 V	268	40.1	15.6

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.3 PK	74.0	-11.7	3.34 H	329	54.0	8.3
2	5150.00	51.0 AV	54.0	-3.0	3.34 H	329	42.7	8.3
3	*5260.00	114.3 PK			3.34 H	329	105.4	8.9
4	*5260.00	105.1 AV			3.34 H	329	96.2	8.9
5	#10520.00	54.3 PK	68.2	-13.9	2.80 H	351	38.7	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.7 PK	74.0	-11.3	1.85 V	5	54.4	8.3
2	5150.00	51.8 AV	54.0	-2.2	1.85 V	5	43.5	8.3
3	*5260.00	118.2 PK			1.85 V	5	109.3	8.9
4	*5260.00	108.2 AV			1.85 V	5	99.3	8.9
5	#10520.00	54.8 PK	68.2	-13.4	1.40 V	333	39.2	15.6

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 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	113.4 PK			3.37 H	328	104.3	9.1
2	*5300.00	103.5 AV			3.37 H	328	94.4	9.1
3	10600.00	55.4 PK	74.0	-18.6	2.83 H	350	39.6	15.8
4	10600.00	43.1 AV	54.0	-10.9	2.83 H	350	27.3	15.8
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	*5300.00	117.6 PK			1.84 V	4	108.5	9.1
2	*5300.00	107.3 AV			1.84 V	4	98.2	9.1
3	10600.00	55.9 PK	74.0	-18.1	1.39 V	332	40.1	15.8
4	10600.00	43.6 AV	54.0	-10.4	1.39 V	332	27.8	15.8

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 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	113.3 PK			3.37 H	335	104.2	9.1
2	*5320.00	103.7 AV			3.37 H	335	94.6	9.1
3	5350.00	62.9 PK	74.0	-11.1	3.37 H	335	53.8	9.1
4	5350.00	52.4 AV	54.0	-1.6	3.37 H	335	43.3	9.1
5	10640.00	55.1 PK	74.0	-18.9	2.82 H	357	39.3	15.8
6	10640.00	42.8 AV	54.0	-11.2	2.82 H	357	27.0	15.8
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	*5320.00	117.3 PK			1.83 V	11	108.2	9.1
2	*5320.00	106.7 AV			1.83 V	11	97.6	9.1
3	5350.00	63.4 PK	74.0	-10.6	1.83 V	11	54.3	9.1
4	5350.00	53.2 AV	54.0	-0.8	1.83 V	11	44.1	9.1
5	10640.00	55.6 PK	74.0	-18.4	1.38 V	339	39.8	15.8
6	10640.00	43.3 AV	54.0	-10.7	1.38 V	339	27.5	15.8

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 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.9 PK	74.0	-14.1	1.67 H	113	50.8	9.1
2	5460.00	48.8 AV	54.0	-5.2	1.67 H	113	39.7	9.1
3	#5470.00	59.9 PK	68.2	-8.3	1.67 H	113	50.9	9.0
4	*5500.00	104.0 PK			1.67 H	113	95.0	9.0
5	*5500.00	91.9 AV			1.67 H	113	82.9	9.0
6	11000.00	54.2 PK	74.0	-19.8	2.98 H	301	37.6	16.6
7	11000.00	43.0 AV	54.0	-11.0	2.98 H	301	26.4	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.1 PK	74.0	-11.9	1.17 V	300	53.0	9.1
2	5460.00	50.4 AV	54.0	-3.6	1.17 V	300	41.3	9.1
3	#5470.00	63.7 PK	68.2	-4.5	1.17 V	300	54.7	9.0
4	*5500.00	114.1 PK			1.17 V	300	105.1	9.0
5	*5500.00	101.9 AV			1.17 V	300	92.9	9.0
6	11000.00	55.3 PK	74.0	-18.7	2.58 V	279	38.7	16.6
7	11000.00	43.6 AV	54.0	-10.4	2.58 V	279	27.0	16.6

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	103.0 PK			1.77 H	116	94.2	8.8
2	*5580.00	91.1 AV			1.77 H	116	82.3	8.8
3	11160.00	54.8 PK	74.0	-19.2	2.87 H	267	37.6	17.2
4	11160.00	43.9 AV	54.0	-10.1	2.87 H	267	26.7	17.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	113.2 PK			1.15 V	305	104.4	8.8
2	*5580.00	101.4 AV			1.15 V	305	92.6	8.8
3	11160.00	55.9 PK	74.0	-18.1	2.79 V	168	38.7	17.2
4	11160.00	44.5 AV	54.0	-9.5	2.79 V	168	27.3	17.2

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Ian Chang		

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	102.8 PK			1.67 H	117	94.4	8.4
2	*5700.00	90.4 AV			1.67 H	117	82.0	8.4
3	#5725.00	59.1 PK	68.2	-9.1	1.68 H	117	50.7	8.4
4	11400.00	54.7 PK	74.0	-19.3	2.88 H	271	37.5	17.2
5	11400.00	44.8 AV	54.0	-9.2	2.88 H	271	27.6	17.2
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	*5700.00	113.7 PK			1.43 V	310	105.3	8.4
2	*5700.00	101.1 AV			1.43 V	310	92.7	8.4
3	#5725.00	59.9 PK	68.2	-8.3	1.43 V	310	51.5	8.4
4	11400.00	55.8 PK	74.0	-18.2	2.67 V	259	38.6	17.2
5	11400.00	44.8 AV	54.0	-9.2	2.67 V	259	27.6	17.2

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 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	61.7 PK	68.2	-6.5	3.99 H	311	52.7	9.0
2	*5720.00	111.1 PK			3.99 H	311	102.7	8.4
3	*5720.00	102.0 AV			3.99 H	311	93.6	8.4
4	11440.00	55.5 PK	74.0	-18.5	3.86 H	218	38.0	17.5
5	11440.00	44.4 AV	54.0	-9.6	3.86 H	218	26.9	17.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	62.3 PK	68.2	-5.9	2.40 V	16	53.3	9.0
2	*5720.00	116.0 PK			2.40 V	16	107.6	8.4
3	*5720.00	106.1 AV			2.40 V	16	97.7	8.4
4	11440.00	56.0 PK	74.0	-18.0	3.50 V	290	38.5	17.5
5	11440.00	44.9 AV	54.0	-9.1	3.50 V	290	27.4	17.5

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	#5563.77	62.0 PK	68.2	-6.2	3.74 H	312	53.2	8.8
2	*5745.00	119.1 PK			3.74 H	312	110.8	8.3
3	*5745.00	109.4 AV			3.74 H	312	101.1	8.3
4	#5955.65	62.3 PK	68.2	-5.9	3.74 H	312	53.7	8.6
5	11490.00	57.0 PK	74.0	-17.0	3.61 H	315	39.2	17.8
6	11490.00	45.9 AV	54.0	-8.1	3.61 H	315	28.1	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5604.15	64.1 PK	68.2	-4.1	2.15 V	15	55.5	8.6
2	*5745.00	123.1 PK			2.15 V	15	114.8	8.3
3	*5745.00	113.8 AV			2.15 V	15	105.5	8.3
4	#5943.77	63.3 PK	68.2	-4.9	2.15 V	15	54.7	8.6
5	11490.00	57.5 PK	74.0	-16.5	3.25 V	289	39.7	17.8
6	11490.00	46.4 AV	54.0	-7.6	3.25 V	289	28.6	17.8

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	#5598.93	62.9 PK	68.2	-5.3	3.62 H	308	54.3	8.6
2	*5785.00	118.5 PK			3.62 H	308	110.3	8.2
3	*5785.00	109.3 AV			3.62 H	308	101.1	8.2
4	#5958.98	62.7 PK	68.2	-5.5	3.62 H	308	54.1	8.6
5	11570.00	57.3 PK	74.0	-16.7	3.49 H	215	39.5	17.8
6	11570.00	46.4 AV	54.0	-7.6	3.49 H	215	28.6	17.8
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	#5626.95	64.7 PK	68.2	-3.5	2.03 V	19	56.2	8.5
2	*5785.00	122.6 PK			2.03 V	19	114.4	8.2
3	*5785.00	113.6 AV			2.03 V	19	105.4	8.2
4	#5951.37	63.3 PK	68.2	-4.9	2.03 V	19	54.7	8.6
5	11570.00	57.9 PK	74.0	-16.1	3.13 V	293	40.1	17.8
6	11570.00	46.8 AV	54.0	-7.2	3.13 V	293	29.0	17.8

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	#5591.80	62.4 PK	68.2	-5.8	3.69 H	304	53.8	8.6
2	*5825.00	118.6 PK			3.69 H	304	110.4	8.2
3	*5825.00	108.4 AV			3.69 H	304	100.2	8.2
4	#5968.95	63.1 PK	68.2	-5.1	3.69 H	304	54.5	8.6
5	11650.00	56.6 PK	74.0	-17.4	3.56 H	323	38.9	17.7
6	11650.00	45.5 AV	54.0	-8.5	3.56 H	323	27.8	17.7
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	#5622.20	64.1 PK	68.2	-4.1	2.10 V	33	55.6	8.5
2	*5825.00	123.3 PK			2.10 V	33	115.1	8.2
3	*5825.00	113.6 AV			2.10 V	33	105.4	8.2
4	#5934.27	63.1 PK	68.2	-5.1	2.10 V	33	54.5	8.6
5	11650.00	57.1 PK	74.0	-16.9	3.06 V	307	39.4	17.7
6	11650.00	46.0 AV	54.0	-8.0	3.06 V	307	28.3	17.7

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.9 PK	74.0	-11.1	3.23 H	335	54.6	8.3
2	5150.00	51.3 AV	54.0	-2.7	3.23 H	335	43.0	8.3
3	*5190.00	110.9 PK			3.23 H	335	102.5	8.4
4	*5190.00	102.0 AV			3.23 H	335	93.6	8.4
5	#10380.00	55.3 PK	68.2	-12.9	2.70 H	357	39.5	15.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.0 PK	74.0	-8.0	1.90 V	359	57.7	8.3
2	5150.00	53.2 AV	54.0	-0.8	1.90 V	359	44.9	8.3
3	*5190.00	113.4 PK			1.90 V	359	105.0	8.4
4	*5190.00	104.9 AV			1.90 V	359	96.5	8.4
5	#10380.00	55.8 PK	68.2	-12.4	1.28 V	329	40.0	15.8

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	*5230.00	115.8 PK			3.26 H	339	107.2	8.6
2	*5230.00	107.1 AV			3.26 H	339	98.5	8.6
3	5350.00	63.0 PK	74.0	-11.0	3.26 H	339	53.9	9.1
4	5350.00	52.6 AV	54.0	-1.4	3.26 H	339	43.5	9.1
5	#10460.00	55.7 PK	68.2	-12.5	2.73 H	347	39.9	15.8
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	*5230.00	119.8 PK			1.78 V	5	111.2	8.6
2	*5230.00	110.3 AV			1.78 V	5	101.7	8.6
3	5350.00	63.9 PK	74.0	-10.1	1.78 V	5	54.8	9.1
4	5350.00	53.5 AV	54.0	-0.5	1.78 V	5	44.4	9.1
5	#10460.00	56.2 PK	68.2	-12.0	1.34 V	333	40.4	15.8

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.5 PK	74.0	-11.5	3.35 H	330	54.2	8.3
2	5150.00	51.5 AV	54.0	-2.5	3.35 H	330	43.2	8.3
3	*5270.00	111.0 PK			3.35 H	330	102.1	8.9
4	*5270.00	102.3 AV			3.35 H	330	93.4	8.9
5	#10540.00	55.1 PK	68.2	-13.1	2.81 H	352	39.5	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.9 PK	74.0	-11.1	1.85 V	8	54.6	8.3
2	5150.00	52.0 AV	54.0	-2.0	1.85 V	8	43.7	8.3
3	*5270.00	114.5 PK			1.85 V	8	105.6	8.9
4	*5270.00	104.5 AV			1.85 V	8	95.6	8.9
5	#10540.00	55.6 PK	68.2	-12.6	1.40 V	336	40.0	15.6

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	110.1 PK			3.36 H	331	101.0	9.1
2	*5310.00	100.2 AV			3.36 H	331	91.1	9.1
3	5350.00	63.1 PK	74.0	-10.9	3.36 H	331	54.0	9.1
4	5350.00	53.2 AV	54.0	-0.8	3.36 H	331	44.1	9.1
5	10620.00	56.0 PK	74.0	-18.0	2.81 H	354	40.2	15.8
6	10620.00	43.7 AV	54.0	-10.3	2.81 H	354	27.9	15.8
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	*5310.00	114.0 PK			1.84 V	7	104.9	9.1
2	*5310.00	104.3 AV			1.84 V	7	95.2	9.1
3	5350.00	64.8 PK	74.0	-9.2	1.84 V	7	55.7	9.1
4	5350.00	53.6 AV	54.0	-0.4	1.84 V	7	44.5	9.1
5	10620.00	56.5 PK	74.0	-17.5	1.41 V	337	40.7	15.8
6	10620.00	44.2 AV	54.0	-9.8	1.41 V	337	28.4	15.8

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 (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.4 PK	74.0	-13.6	3.64 H	142	51.3	9.1
2	5460.00	49.5 AV	54.0	-4.5	3.64 H	142	40.4	9.1
3	#5470.00	61.6 PK	68.2	-6.6	3.64 H	142	52.6	9.0
4	*5510.00	109.5 PK			3.64 H	142	100.5	9.0
5	*5510.00	97.9 AV			3.64 H	142	88.9	9.0
6	11020.00	54.2 PK	74.0	-19.8	3.13 H	106	37.6	16.6
7	11020.00	43.1 AV	54.0	-10.9	3.13 H	106	26.5	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.2 PK	74.0	-14.8	3.41 V	19	50.1	9.1
2	5460.00	50.3 AV	54.0	-3.7	3.41 V	19	41.2	9.1
3	#5470.00	60.5 PK	68.2	-7.7	3.41 V	19	51.5	9.0
4	*5510.00	111.2 PK			3.41 V	19	102.2	9.0
5	*5510.00	98.8 AV			3.41 V	19	89.8	9.0
6	11020.00	55.3 PK	74.0	-18.7	1.89 V	218	38.7	16.6
7	11020.00	43.6 AV	54.0	-10.4	1.89 V	218	27.0	16.6

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	112.0 PK			3.67 H	0	103.1	8.9
2	*5550.00	100.2 AV			3.67 H	0	91.3	8.9
3	11100.00	54.3 PK	74.0	-19.7	3.33 H	121	37.6	16.7
4	11100.00	43.5 AV	54.0	-10.5	3.33 H	121	26.8	16.7
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	*5550.00	117.4 PK			2.70 V	27	108.5	8.9
2	*5550.00	105.3 AV			2.70 V	27	96.4	8.9
3	11100.00	55.5 PK	74.0	-18.5	1.84 V	201	38.8	16.7
4	11100.00	44.3 AV	54.0	-9.7	1.84 V	201	27.6	16.7

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.

RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	111.9 PK			3.23 H	12	103.5	8.4
2	*5670.00	100.6 AV			3.23 H	12	92.2	8.4
3	#5725.00	63.3 PK	68.2	-4.9	3.23 H	12	54.9	8.4
4	11340.00	54.7 PK	74.0	-19.3	3.11 H	120	37.7	17.0
5	11340.00	43.6 AV	54.0	-10.4	3.11 H	120	26.6	17.0
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	*5670.00	118.2 PK			1.82 V	305	109.8	8.4
2	*5670.00	106.1 AV			1.82 V	305	97.7	8.4
3	#5725.00	64.6 PK	68.2	-3.6	1.82 V	305	56.2	8.4
4	11340.00	55.8 PK	74.0	-18.2	2.58 V	267	38.8	17.0
5	11340.00	44.4 AV	54.0	-9.6	2.58 V	267	27.4	17.0

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	62.2 PK	68.2	-6.0	3.98 H	313	53.2	9.0
2	*5710.00	110.0 PK			3.98 H	313	101.6	8.4
3	*5710.00	100.5 AV			3.98 H	313	92.1	8.4
4	11420.00	57.1 PK	74.0	-16.9	3.85 H	220	39.7	17.4
5	11420.00	46.0 AV	54.0	-8.0	3.85 H	220	28.6	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	62.7 PK	68.2	-5.5	2.39 V	14	53.7	9.0
2	*5710.00	114.5 PK			2.39 V	14	106.1	8.4
3	*5710.00	105.0 AV			2.39 V	14	96.6	8.4
4	11420.00	57.6 PK	74.0	-16.4	3.49 V	288	40.2	17.4
5	11420.00	46.5 AV	54.0	-7.5	3.49 V	288	29.1	17.4

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	#5647.37	65.5 PK	68.2	-2.7	2.31 H	315	57.1	8.4
2	*5755.00	116.1 PK			2.31 H	315	107.7	8.4
3	*5755.00	106.6 AV			2.31 H	315	98.2	8.4
4	#5937.60	63.1 PK	68.2	-5.1	2.31 H	315	54.5	8.6
5	11510.00	57.7 PK	74.0	-16.3	3.92 H	222	39.9	17.8
6	11510.00	46.6 AV	54.0	-7.4	3.92 H	222	28.8	17.8
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	#5647.37	67.5 PK	68.2	-0.7	2.46 V	12	59.1	8.4
2	*5755.00	120.5 PK			2.46 V	12	112.1	8.4
3	*5755.00	110.9 AV			2.46 V	12	102.5	8.4
4	#5928.10	63.6 PK	68.2	-4.6	2.46 V	12	55.1	8.5
5	11510.00	58.2 PK	74.0	-15.8	3.42 V	328	40.4	17.8
6	11510.00	47.1 AV	54.0	-6.9	3.42 V	328	29.3	17.8

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 (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.30	63.0 PK	68.2	-5.2	2.32 H	17	54.6	8.4
2	*5795.00	116.1 PK			2.32 H	17	107.9	8.2
3	*5795.00	106.8 AV			2.32 H	17	98.6	8.2
4	#5935.23	62.8 PK	68.2	-5.4	2.32 H	17	54.2	8.6
5	11590.00	57.4 PK	74.0	-16.6	2.19 H	250	39.6	17.8
6	11590.00	46.3 AV	54.0	-7.7	2.19 H	250	28.5	17.8
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	#5642.62	64.3 PK	68.2	-3.9	2.45 V	344	55.9	8.4
2	*5795.00	120.6 PK			2.45 V	344	112.4	8.2
3	*5795.00	111.3 AV			2.45 V	344	103.1	8.2
4	#5929.05	63.3 PK	68.2	-4.9	2.45 V	344	54.8	8.5
5	11590.00	57.9 PK	74.0	-16.1	3.41 V	300	40.1	17.8
6	11590.00	46.8 AV	54.0	-7.2	3.41 V	300	29.0	17.8

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.9 PK	74.0	-12.1	2.65 H	338	53.6	8.3
2	5150.00	51.5 AV	54.0	-2.5	2.65 H	338	43.2	8.3
3	*5210.00	107.2 PK			2.65 H	338	98.7	8.5
4	*5210.00	98.8 AV			2.65 H	338	90.3	8.5
5	5350.00	60.9 PK	74.0	-13.1	2.65 H	338	51.8	9.1
6	5350.00	49.3 AV	54.0	-4.7	2.65 H	338	40.2	9.1
7	#10420.00	55.7 PK	68.2	-12.5	2.12 H	348	39.8	15.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.8 PK	74.0	-8.2	1.89 V	359	57.5	8.3
2	5150.00	53.2 AV	54.0	-0.8	1.89 V	359	44.9	8.3
3	*5210.00	110.0 PK			1.89 V	359	101.5	8.5
4	*5210.00	101.3 AV			1.89 V	359	92.8	8.5
5	5350.00	60.8 PK	74.0	-13.2	1.89 V	359	51.7	9.1
6	5350.00	49.3 AV	54.0	-4.7	1.89 V	359	40.2	9.1
7	#10420.00	56.2 PK	68.2	-12.0	2.16 V	332	40.3	15.9

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.4 PK	74.0	-11.6	3.44 H	334	54.1	8.3
2	5150.00	51.2 AV	54.0	-2.8	3.44 H	334	42.9	8.3
3	*5290.00	107.4 PK			3.44 H	334	98.3	9.1
4	*5290.00	98.2 AV			3.44 H	334	89.1	9.1
5	5350.00	63.4 PK	74.0	-10.6	3.44 H	334	54.3	9.1
6	5350.00	53.2 AV	54.0	-0.8	3.44 H	334	44.1	9.1
7	#10580.00	55.5 PK	68.2	-12.7	2.90 H	350	39.7	15.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.8 PK	74.0	-11.2	1.76 V	10	54.5	8.3
2	5150.00	51.4 AV	54.0	-2.6	1.76 V	10	43.1	8.3
3	*5290.00	111.5 PK			1.76 V	10	102.4	9.1
4	*5290.00	101.7 AV			1.76 V	10	92.6	9.1
5	5350.00	64.7 PK	74.0	-9.3	1.76 V	10	55.6	9.1
6	5350.00	53.7 AV	54.0	-0.3	1.76 V	10	44.6	9.1
7	#10580.00	56.0 PK	68.2	-12.2	1.31 V	338	40.2	15.8

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.8 PK	74.0	-14.2	4.00 H	4	50.7	9.1
2	5460.00	50.2 AV	54.0	-3.8	4.00 H	4	41.1	9.1
3	#5470.00	59.9 PK	68.2	-8.3	4.00 H	4	50.9	9.0
4	*5530.00	104.7 PK			4.00 H	4	95.8	8.9
5	*5530.00	92.4 AV			4.00 H	4	83.5	8.9
6	11060.00	53.5 PK	74.0	-20.5	1.66 H	265	36.9	16.6
7	11060.00	42.4 AV	54.0	-11.6	1.66 H	265	25.8	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.6 PK	74.0	-10.4	1.83 V	297	54.5	9.1
2	5460.00	53.3 AV	54.0	-0.7	1.83 V	297	44.2	9.1
3	#5470.00	62.8 PK	68.2	-5.4	1.83 V	297	53.8	9.0
4	*5530.00	109.5 PK			1.83 V	297	100.6	8.9
5	*5530.00	101.0 AV			1.83 V	297	92.1	8.9
6	11060.00	54.4 PK	74.0	-19.6	2.59 V	161	37.8	16.6
7	11060.00	43.3 AV	54.0	-10.7	2.59 V	161	26.7	16.6

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Ian Chang		

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	*5610.00	104.4 PK			3.89 H	157	95.8	8.6
2	*5610.00	92.8 AV			3.89 H	157	84.2	8.6
3	#5725.00	59.1 PK	68.2	-9.1	3.89 H	157	50.7	8.4
4	11220.00	55.2 PK	74.0	-18.8	2.55 H	143	37.8	17.4
5	11220.00	44.1 AV	54.0	-9.9	2.55 H	143	26.7	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	112.7 PK			2.55 V	28	104.1	8.6
2	*5610.00	101.4 AV			2.55 V	28	92.8	8.6
3	#5725.00	60.7 PK	68.2	-7.5	2.55 V	28	52.3	8.4
4	11220.00	56.2 PK	74.0	-17.8	3.01 V	255	38.8	17.4
5	11220.00	45.0 AV	54.0	-9.0	3.01 V	255	27.6	17.4

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	62.8 PK	68.2	-5.4	3.90 H	313	53.8	9.0
2	*5690.00	106.1 PK			3.90 H	313	97.6	8.5
3	*5690.00	97.1 AV			3.90 H	313	88.6	8.5
4	11380.00	55.9 PK	74.0	-18.1	3.77 H	220	38.7	17.2
5	11380.00	44.8 AV	54.0	-9.2	3.77 H	220	27.6	17.2
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	#5470.00	63.1 PK	68.2	-5.1	2.31 V	14	54.1	9.0
2	*5690.00	110.6 PK			2.31 V	14	102.1	8.5
3	*5690.00	101.3 AV			2.31 V	14	92.8	8.5
4	11380.00	56.4 PK	74.0	-17.6	3.41 V	288	39.2	17.2
5	11380.00	45.3 AV	54.0	-8.7	3.41 V	288	28.1	17.2

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 (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.80	64.1 PK	68.2	-4.1	2.33 H	16	55.7	8.4
2	*5775.00	110.0 PK			2.33 H	16	101.8	8.2
3	*5775.00	101.1 AV			2.33 H	16	92.9	8.2
4	#5991.27	63.1 PK	68.2	-5.1	2.33 H	16	54.3	8.8
5	11550.00	57.0 PK	74.0	-17.0	3.90 H	283	39.2	17.8
6	11550.00	45.9 AV	54.0	-8.1	3.90 H	283	28.1	17.8
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	#5641.20	67.1 PK	68.2	-1.1	2.44 V	343	58.7	8.4
2	*5775.00	114.8 PK			2.44 V	343	106.6	8.2
3	*5775.00	105.8 AV			2.44 V	343	97.6	8.2
4	#5926.20	64.4 PK	68.2	-3.8	2.44 V	343	55.9	8.5
5	11550.00	57.5 PK	74.0	-16.5	3.42 V	301	39.7	17.8
6	11550.00	46.4 AV	54.0	-7.6	3.42 V	301	28.6	17.8

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 (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.3 PK	74.0	-10.7	3.34 H	340	55.0	8.3
2	5150.00	52.4 AV	54.0	-1.6	3.34 H	340	44.1	8.3
3	*5250.00	106.8 PK			3.34 H	340	98.0	8.8
4	*5250.00	95.0 AV			3.34 H	340	86.2	8.8
5	5350.00	62.8 PK	74.0	-11.2	3.34 H	340	53.7	9.1
6	5350.00	51.9 AV	54.0	-2.1	3.34 H	340	42.8	9.1
7	#10500.00	54.7 PK	68.2	-13.5	2.81 H	346	39.1	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.5 PK	74.0	-6.5	2.60 V	1	59.2	8.3
2	5150.00	53.1 AV	54.0	-0.9	2.60 V	1	44.8	8.3
3	*5250.00	110.1 PK			2.60 V	1	101.3	8.8
4	*5250.00	97.9 AV			2.60 V	1	89.1	8.8
5	5350.00	65.8 PK	74.0	-8.2	2.60 V	1	56.7	9.1
6	5350.00	51.8 AV	54.0	-2.2	2.60 V	1	42.7	9.1
7	#10500.00	55.2 PK	68.2	-13.0	1.39 V	334	39.6	15.6

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 (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.1 PK	74.0	-13.9	3.43 H	33	51.0	9.1
2	5460.00	49.2 AV	54.0	-4.8	3.43 H	33	40.1	9.1
3	#5470.00	59.3 PK	68.2	-8.9	3.43 H	33	50.3	9.0
4	*5570.00	99.4 PK			3.43 H	33	90.6	8.8
5	*5570.00	88.0 AV			3.43 H	33	79.2	8.8
6	#5725.00	58.8 PK	68.2	-9.4	3.43 H	33	50.4	8.4
7	11140.00	53.7 PK	74.0	-20.3	3.69 H	248	36.8	16.9
8	11140.00	42.6 AV	54.0	-11.4	3.69 H	248	25.7	16.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.2 PK	74.0	-9.8	2.59 V	27	55.1	9.1
2	5460.00	53.1 AV	54.0	-0.9	2.59 V	27	44.0	9.1
3	#5470.00	64.7 PK	68.2	-3.5	2.59 V	27	55.7	9.0
4	*5570.00	107.0 PK			2.59 V	27	98.2	8.8
5	*5570.00	96.9 AV			2.59 V	27	88.1	8.8
6	#5725.00	61.3 PK	68.2	-6.9	2.59 V	27	52.9	8.4
7	11140.00	54.5 PK	74.0	-19.5	2.68 V	152	37.6	16.9
8	11140.00	43.5 AV	54.0	-10.5	2.68 V	152	26.6	16.9

Remarks:

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

CDD Mode_Mode B

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.5 PK	74.0	-9.5	1.40 H	2	56.2	8.3
2	5150.00	51.5 AV	54.0	-2.5	1.40 H	2	43.2	8.3
3	*5180.00	114.8 PK			1.40 H	2	106.4	8.4
4	*5180.00	105.1 AV			1.40 H	2	96.7	8.4
5	#10360.00	55.1 PK	68.2	-13.1	1.00 H	34	39.5	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.4 PK	74.0	-8.6	1.97 V	354	57.1	8.3
2	5150.00	52.8 AV	54.0	-1.2	1.97 V	354	44.5	8.3
3	*5180.00	115.6 PK			1.97 V	354	107.2	8.4
4	*5180.00	105.8 AV			1.97 V	354	97.4	8.4
5	#10360.00	55.4 PK	68.2	-12.8	1.52 V	322	39.8	15.6

Remarks:

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

RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Ian Chang		

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	116.7 PK			1.68 H	5	108.3	8.4
2	*5200.00	107.5 AV			1.68 H	5	99.1	8.4
3	#10400.00	55.2 PK	68.2	-13.0	1.84 H	147	39.3	15.9
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	*5200.00	120.6 PK			1.88 V	116	112.2	8.4
2	*5200.00	111.2 AV			1.88 V	116	102.8	8.4
3	#10400.00	56.1 PK	68.2	-12.1	1.64 V	238	40.2	15.9

Remarks:

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

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	118.0 PK			1.71 H	8	109.2	8.8
2	*5240.00	108.0 AV			1.71 H	8	99.2	8.8
3	5350.00	60.3 PK	74.0	-13.7	1.71 H	8	51.2	9.1
4	5350.00	48.3 AV	54.0	-5.7	1.71 H	8	39.2	9.1
5	#10480.00	54.9 PK	68.2	-13.3	1.25 H	356	39.3	15.6
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	122.1 PK			1.30 V	91	113.3	8.8
2	*5240.00	112.8 AV			1.30 V	91	104.0	8.8
3	5350.00	61.7 PK	74.0	-12.3	1.30 V	91	52.6	9.1
4	5350.00	49.8 AV	54.0	-4.2	1.30 V	91	40.7	9.1
5	#10480.00	56.1 PK	68.2	-12.1	1.63 V	266	40.5	15.6

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Ian Chang		

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	58.6 PK	74.0	-15.4	1.69 H	22	50.3	8.3
2	5150.00	47.6 AV	54.0	-6.4	1.69 H	22	39.3	8.3
3	*5260.00	113.1 PK			1.69 H	22	104.2	8.9
4	*5260.00	104.3 AV			1.69 H	22	95.4	8.9
5	#10520.00	54.8 PK	68.2	-13.4	1.85 H	278	39.2	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.6 PK	74.0	-14.4	1.10 V	40	51.3	8.3
2	5150.00	48.8 AV	54.0	-5.2	1.10 V	40	40.5	8.3
3	*5260.00	117.8 PK			1.10 V	40	108.9	8.9
4	*5260.00	108.4 AV			1.10 V	40	99.5	8.9
5	#10520.00	55.9 PK	68.2	-12.3	1.84 V	265	40.3	15.6

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 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Ian Chang		

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	114.3 PK			1.78 H	12	105.2	9.1
2	*5300.00	103.5 AV			1.78 H	12	94.4	9.1
3	10600.00	55.1 PK	74.0	-18.9	1.84 H	245	39.3	15.8
4	10600.00	43.2 AV	54.0	-10.8	1.84 H	245	27.4	15.8
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	*5300.00	118.1 PK			1.16 V	39	109.0	9.1
2	*5300.00	108.0 AV			1.16 V	39	98.9	9.1
3	10600.00	56.1 PK	74.0	-17.9	1.85 V	251	40.3	15.8
4	10600.00	44.1 AV	54.0	-9.9	1.85 V	251	28.3	15.8

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 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Ian Chang		

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	113.4 PK			1.71 H	6	104.3	9.1
2	*5320.00	103.4 AV			1.71 H	6	94.3	9.1
3	5350.00	59.1 PK	74.0	-14.9	1.71 H	6	50.0	9.1
4	5350.00	48.4 AV	54.0	-5.6	1.71 H	6	39.3	9.1
5	10640.00	55.1 PK	74.0	-18.9	1.78 H	152	39.3	15.8
6	10640.00	43.0 AV	54.0	-11.0	1.78 H	152	27.2	15.8
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	*5320.00	117.4 PK			1.23 V	94	108.3	9.1
2	*5320.00	107.4 AV			1.23 V	94	98.3	9.1
3	5350.00	60.6 PK	74.0	-13.4	1.23 V	94	51.5	9.1
4	5350.00	49.4 AV	54.0	-4.6	1.23 V	94	40.3	9.1
5	10640.00	56.0 PK	74.0	-18.0	1.84 V	263	40.2	15.8
6	10640.00	44.4 AV	54.0	-9.6	1.84 V	263	28.6	15.8

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 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.6 PK	74.0	-11.4	3.54 H	71	53.5	9.1
2	5460.00	52.0 AV	54.0	-2.0	3.54 H	71	42.9	9.1
3	#5470.00	64.3 PK	68.2	-3.9	3.54 H	71	55.3	9.0
4	*5500.00	112.5 PK			3.54 H	71	103.5	9.0
5	*5500.00	104.9 AV			3.54 H	71	95.9	9.0
6	11000.00	56.2 PK	74.0	-17.8	3.61 H	217	39.6	16.6
7	11000.00	44.6 AV	54.0	-9.4	3.61 H	217	28.0	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.0 PK	74.0	-11.0	3.06 V	104	53.9	9.1
2	5460.00	52.2 AV	54.0	-1.8	3.06 V	104	43.1	9.1
3	#5470.00	65.4 PK	68.2	-2.8	3.06 V	104	56.4	9.0
4	*5500.00	116.2 PK			3.06 V	104	107.2	9.0
5	*5500.00	108.1 AV			3.06 V	104	99.1	9.0
6	11000.00	56.6 PK	74.0	-17.4	3.67 V	274	40.0	16.6
7	11000.00	45.0 AV	54.0	-9.0	3.67 V	274	28.4	16.6

Remarks:

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

RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	112.0 PK			2.34 H	205	103.2	8.8
2	*5580.00	104.4 AV			2.34 H	205	95.6	8.8
3	11160.00	56.5 PK	74.0	-17.5	2.50 H	351	39.3	17.2
4	11160.00	44.9 AV	54.0	-9.1	2.50 H	351	27.7	17.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	115.7 PK			1.95 V	330	106.9	8.8
2	*5580.00	106.7 AV			1.95 V	330	97.9	8.8
3	11160.00	56.9 PK	74.0	-17.1	2.56 V	140	39.7	17.2
4	11160.00	45.3 AV	54.0	-8.7	2.56 V	140	28.1	17.2

Remarks:

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

RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	113.7 PK			2.27 H	201	105.3	8.4
2	*5700.00	104.6 AV			2.27 H	201	96.2	8.4
3	#5725.00	64.8 PK	68.2	-3.4	2.27 H	201	56.4	8.4
4	11400.00	57.3 PK	74.0	-16.7	2.43 H	347	40.1	17.2
5	11400.00	45.7 AV	54.0	-8.3	2.43 H	347	28.5	17.2
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	*5700.00	117.1 PK			1.88 V	334	108.7	8.4
2	*5700.00	107.4 AV			1.88 V	334	99.0	8.4
3	#5725.00	66.8 PK	68.2	-1.4	1.88 V	334	58.4	8.4
4	11400.00	57.7 PK	74.0	-16.3	2.49 V	145	40.5	17.2
5	11400.00	46.1 AV	54.0	-7.9	2.49 V	145	28.9	17.2

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 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	62.4 PK	68.2	-5.8	2.33 H	14	53.4	9.0
2	*5720.00	113.6 PK			2.33 H	14	105.2	8.4
3	*5720.00	105.3 AV			2.33 H	14	96.9	8.4
4	11440.00	56.6 PK	74.0	-17.4	1.95 H	160	39.1	17.5
5	11440.00	44.9 AV	54.0	-9.1	1.95 H	160	27.4	17.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	63.1 PK	68.2	-5.1	1.94 V	85	54.1	9.0
2	*5720.00	116.8 PK			1.94 V	85	108.4	8.4
3	*5720.00	107.3 AV			1.94 V	85	98.9	8.4
4	11440.00	57.0 PK	74.0	-17.0	2.17 V	326	39.5	17.5
5	11440.00	45.4 AV	54.0	-8.6	2.17 V	326	27.9	17.5

Remarks:

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

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	#5592.27	63.8 PK	68.2	-4.4	3.27 H	32	55.2	8.6
2	*5745.00	120.2 PK			3.27 H	32	111.9	8.3
3	*5745.00	111.5 AV			3.27 H	32	103.2	8.3
4	#6006.95	63.7 PK	68.2	-4.5	3.27 H	32	54.9	8.8
5	11490.00	56.8 PK	74.0	-17.2	2.89 H	178	39.0	17.8
6	11490.00	45.2 AV	54.0	-8.8	2.89 H	178	27.4	17.8
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	#5627.90	63.0 PK	68.2	-5.2	2.88 V	66	54.5	8.5
2	*5745.00	123.6 PK			2.88 V	66	115.3	8.3
3	*5745.00	114.7 AV			2.88 V	66	106.4	8.3
4	#5939.98	63.1 PK	68.2	-5.1	2.88 V	66	54.5	8.6
5	11490.00	57.2 PK	74.0	-16.8	3.11 V	308	39.4	17.8
6	11490.00	45.6 AV	54.0	-8.4	3.11 V	308	27.8	17.8

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	#5600.35	64.0 PK	68.2	-4.2	2.02 H	140	55.4	8.6
2	*5785.00	119.5 PK			2.02 H	140	111.3	8.2
3	*5785.00	110.6 AV			2.02 H	140	102.4	8.2
4	#5993.65	63.1 PK	68.2	-5.1	2.02 H	140	54.3	8.8
5	11570.00	56.0 PK	74.0	-18.0	1.64 H	286	38.2	17.8
6	11570.00	44.4 AV	54.0	-9.6	1.64 H	286	26.6	17.8
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	#5626.00	63.2 PK	68.2	-5.0	1.63 V	318	54.7	8.5
2	*5785.00	122.7 PK			1.63 V	318	114.5	8.2
3	*5785.00	114.1 AV			1.63 V	318	105.9	8.2
4	#5941.87	62.5 PK	68.2	-5.7	1.63 V	318	53.9	8.6
5	11570.00	56.4 PK	74.0	-17.6	1.86 V	200	38.6	17.8
6	11570.00	44.8 AV	54.0	-9.2	1.86 V	200	27.0	17.8

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	#5630.27	62.9 PK	68.2	-5.3	2.15 H	129	54.4	8.5
2	*5825.00	119.7 PK			2.15 H	129	111.5	8.2
3	*5825.00	110.8 AV			2.15 H	129	102.6	8.2
4	#5980.82	62.5 PK	68.2	-5.7	2.15 H	129	53.8	8.7
5	11650.00	56.3 PK	74.0	-17.7	1.77 H	275	38.6	17.7
6	11650.00	44.7 AV	54.0	-9.3	1.77 H	275	27.0	17.7
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	#5630.75	63.9 PK	68.2	-4.3	1.76 V	329	55.4	8.5
2	*5825.00	123.1 PK			1.76 V	329	114.9	8.2
3	*5825.00	113.8 AV			1.76 V	329	105.6	8.2
4	#6005.05	63.1 PK	68.2	-5.1	1.76 V	329	54.3	8.8
5	11650.00	56.7 PK	74.0	-17.3	1.99 V	211	39.0	17.7
6	11650.00	45.1 AV	54.0	-8.9	1.99 V	211	27.4	17.7

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Ian Chang		

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	49.5 PK	74.0	-24.5	1.67 H	13	41.2	8.3
2	5150.00	49.3 AV	54.0	-4.7	1.67 H	13	41.0	8.3
3	*5180.00	114.7 PK			1.67 H	13	106.3	8.4
4	*5180.00	103.8 AV			1.67 H	13	95.4	8.4
5	#10360.00	54.8 PK	68.2	-13.4	2.51 H	65	39.2	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.0 PK	74.0	-11.0	1.11 V	32	54.7	8.3
2	5150.00	53.1 AV	54.0	-0.9	1.11 V	32	44.8	8.3
3	*5180.00	118.7 PK			1.11 V	32	110.3	8.4
4	*5180.00	107.4 AV			1.11 V	32	99.0	8.4
5	#10360.00	56.1 PK	68.2	-12.1	1.84 V	216	40.5	15.6

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Ian Chang		

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	59.5 PK	74.0	-14.5	1.65 H	13	51.2	8.3
2	5150.00	48.6 AV	54.0	-5.4	1.65 H	13	40.3	8.3
3	*5200.00	118.4 PK			1.65 H	13	110.0	8.4
4	*5200.00	107.8 AV			1.65 H	13	99.4	8.4
5	#10400.00	55.0 PK	68.2	-13.2	1.84 H	152	39.1	15.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.1 PK	74.0	-9.9	1.11 V	41	55.8	8.3
2	5150.00	52.9 AV	54.0	-1.1	1.11 V	41	44.6	8.3
3	*5200.00	122.8 PK			1.11 V	41	114.4	8.4
4	*5200.00	111.4 AV			1.11 V	41	103.0	8.4
5	#10480.00	56.2 PK	68.2	-12.0	1.68 V	295	40.6	15.6

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 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Ian Chang		

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	120.1 PK			1.58 H	8	111.3	8.8
2	*5240.00	108.1 AV			1.58 H	8	99.3	8.8
3	5350.00	58.4 PK	74.0	-15.6	1.58 H	8	49.3	9.1
4	5350.00	48.4 AV	54.0	-5.6	1.58 H	8	39.3	9.1
5	#10480.00	54.9 PK	68.2	-13.3	1.98 H	332	39.3	15.6
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	123.9 PK			1.10 V	35	115.1	8.8
2	*5240.00	112.5 AV			1.10 V	35	103.7	8.8
3	5350.00	59.6 PK	74.0	-14.4	1.10 V	35	50.5	9.1
4	5350.00	49.2 AV	54.0	-4.8	1.10 V	35	40.1	9.1
5	#10480.00	56.1 PK	68.2	-12.1	1.97 V	188	40.5	15.6

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Ian Chang		

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	58.6 PK	74.0	-15.4	1.62 H	10	50.3	8.3
2	5150.00	47.7 AV	54.0	-6.3	1.62 H	10	39.4	8.3
3	*5260.00	114.3 PK			1.62 H	10	105.4	8.9
4	*5260.00	102.2 AV			1.62 H	10	93.3	8.9
5	#10520.00	55.0 PK	68.2	-13.2	2.13 H	112	39.4	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.4 PK	74.0	-14.6	1.16 V	34	51.1	8.3
2	5150.00	48.9 AV	54.0	-5.1	1.16 V	34	40.6	8.3
3	*5260.00	118.5 PK			1.16 V	34	109.6	8.9
4	*5260.00	106.7 AV			1.16 V	34	97.8	8.9
5	#10520.00	55.6 PK	68.2	-12.6	1.99 V	284	40.0	15.6

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 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Ian Chang		

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	113.7 PK			1.72 H	11	104.6	9.1
2	*5300.00	102.7 AV			1.72 H	11	93.6	9.1
3	10600.00	55.1 PK	74.0	-18.9	2.35 H	145	39.3	15.8
4	10600.00	43.3 AV	54.0	-10.7	2.35 H	145	27.5	15.8
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	*5300.00	117.9 PK			1.15 V	45	108.8	9.1
2	*5300.00	106.4 AV			1.15 V	45	97.3	9.1
3	10600.00	56.0 PK	74.0	-18.0	1.38 V	299	40.2	15.8
4	10600.00	44.5 AV	54.0	-9.5	1.38 V	299	28.7	15.8

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 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Ian Chang		

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	113.4 PK			1.66 H	9	104.3	9.1
2	*5320.00	102.0 AV			1.66 H	9	92.9	9.1
3	5350.00	60.4 PK	74.0	-13.6	1.66 H	9	51.3	9.1
4	5350.00	49.2 AV	54.0	-4.8	1.66 H	9	40.1	9.1
5	10640.00	55.0 PK	74.0	-19.0	2.23 H	265	39.2	15.8
6	10640.00	43.0 AV	54.0	-11.0	2.23 H	265	27.2	15.8
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	*5320.00	118.0 PK			1.09 V	32	108.9	9.1
2	*5320.00	106.0 AV			1.09 V	32	96.9	9.1
3	5350.00	62.3 PK	74.0	-11.7	1.09 V	32	53.2	9.1
4	5350.00	50.7 AV	54.0	-3.3	1.09 V	32	41.6	9.1
5	10640.00	56.0 PK	74.0	-18.0	1.87 V	178	40.2	15.8
6	10640.00	44.0 AV	54.0	-10.0	1.87 V	178	28.2	15.8

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 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.7 PK	74.0	-11.3	1.77 H	101	53.6	9.1
2	5460.00	52.0 AV	54.0	-2.0	1.77 H	101	42.9	9.1
3	#5470.00	63.1 PK	68.2	-5.1	1.77 H	101	54.1	9.0
4	*5500.00	112.1 PK			1.77 H	101	103.1	9.0
5	*5500.00	102.4 AV			1.77 H	101	93.4	9.0
6	11000.00	56.3 PK	74.0	-17.7	1.93 H	188	39.7	16.6
7	11000.00	44.7 AV	54.0	-9.3	1.93 H	188	28.1	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.5 PK	74.0	-10.5	1.38 V	134	54.4	9.1
2	5460.00	52.4 AV	54.0	-1.6	1.38 V	134	43.3	9.1
3	#5470.00	64.6 PK	68.2	-3.6	1.38 V	134	55.6	9.0
4	*5500.00	115.9 PK			1.38 V	134	106.9	9.0
5	*5500.00	106.3 AV			1.38 V	134	97.3	9.0
6	11000.00	56.7 PK	74.0	-17.3	1.99 V	305	40.1	16.6
7	11000.00	45.1 AV	54.0	-8.9	1.99 V	305	28.5	16.6

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	110.9 PK			1.75 H	103	102.1	8.8
2	*5580.00	102.2 AV			1.75 H	103	93.4	8.8
3	11160.00	56.3 PK	74.0	-17.7	1.91 H	249	39.1	17.2
4	11160.00	44.7 AV	54.0	-9.3	1.91 H	249	27.5	17.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	114.5 PK			1.36 V	135	105.7	8.8
2	*5580.00	105.1 AV			1.36 V	135	96.3	8.8
3	11160.00	56.7 PK	74.0	-17.3	1.97 V	306	39.5	17.2
4	11160.00	45.1 AV	54.0	-8.9	1.97 V	306	27.9	17.2

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	111.1 PK			2.75 H	208	102.7	8.4
2	*5700.00	101.5 AV			2.75 H	208	93.1	8.4
3	#5725.00	63.4 PK	68.2	-4.8	2.75 H	208	55.0	8.4
4	11400.00	56.0 PK	74.0	-18.0	2.91 H	354	38.8	17.2
5	11400.00	44.4 AV	54.0	-9.6	2.91 H	354	27.2	17.2
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	*5700.00	114.8 PK			2.36 V	327	106.4	8.4
2	*5700.00	105.0 AV			2.36 V	327	96.6	8.4
3	#5725.00	66.5 PK	68.2	-1.7	2.36 V	327	58.1	8.4
4	11400.00	56.4 PK	74.0	-17.6	2.97 V	51	39.2	17.2
5	11400.00	44.8 AV	54.0	-9.2	2.97 V	51	27.6	17.2

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 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	14°C, 58% RH
Tested By	Jed Wu		

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	62.7 PK	68.2	-5.5	3.17 H	32	53.7	9.0
2	*5720.00	113.2 PK			3.17 H	32	104.8	8.4
3	*5720.00	103.4 AV			3.17 H	32	95.0	8.4
4	11440.00	56.9 PK	74.0	-17.1	2.79 H	180	39.4	17.5
5	11440.00	45.4 AV	54.0	-8.6	2.79 H	180	27.9	17.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	63.0 PK	68.2	-5.2	2.78 V	66	54.0	9.0
2	*5720.00	116.4 PK			2.78 V	66	108.0	8.4
3	*5720.00	106.6 AV			2.78 V	66	98.2	8.4
4	11440.00	57.4 PK	74.0	-16.6	3.01 V	307	39.9	17.5
5	11440.00	45.8 AV	54.0	-8.2	3.01 V	307	28.3	17.5

Remarks:

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