

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBICM-WTW-P22110528-4

FCC ID: S9E-125500

Product: Rugged Handheld Computer

Brand: 

Model No.: 125500

Received Date: 2022/11/18

Test Date: 2022/12/19 ~ 2023/7/18

Issued Date: 2023/10/27

Applicant: Trimble Inc.

Address: 5475 Kellenburger Road, Dayton, Ohio, 45424

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

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

FCC Registration / 788550 / TW0003

Designation Number:

Approved by: _____

Jeremy Lin

Date: _____

2023/10/27

Jeremy Lin / Project Engineer

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Prepared by : Gina Liu / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBICM-WTW-P22110528-4	Original release.	2023/10/27

1 Certificate

Product: Rugged Handheld Computer

Brand: 

Test Model: 125500

Sample Status: Engineering sample

Applicant: Trimble Inc.

Test Date: 2022/12/19 ~ 2023/7/18

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

Measurement procedure: ANSI C63.10-2013
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	Pass	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 -17.33 dB at 0.65800 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -6.2 dB at 71.71 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 -1.0 dB at 5150.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is shrapnel 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) (±)
Occupied Bandwidth	-	491.896 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.99 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 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	Rugged Handheld Computer
Brand	
Test Model	125500
Status of EUT	Engineering sample
Power Supply Rating	Refer to note
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 2402Mbps
Operating Frequency	5.18 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	5180 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 8 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2 802.11ac (VHT160), 802.11ax (HE160): 1 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 802.11ac (VHT160), 802.11ax (HE160): 1 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1
Output Power	5.18 GHz ~ 5.25 GHz : 81.483 mW (19.11 dBm) 5.26 GHz ~ 5.32 GHz : 71.899 mW (18.57 dBm) 5.5 GHz ~ 5.72 GHz : 77.716 mW (18.91 dBm) 5.745 GHz ~ 5.825 GHz : 71.092 mW (18.52 dBm)
EUT Category	Client device

Note:

- The EUT uses following accessories.

Battery		
Brand	Model	Specification
N/A	1400-900069G	Manufacturer : LIFUN TECHNOLOGY CO.,LTD. Power Rating : 3.85 Vdc 4950mAh
USB Cable		
Brand	Model	Specification
Trimble	121920	Signal Line : 2 meters, shielded cable. w/o ferrite core

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	Gain (dBi)				Antenna Type	Connector Type
	5.15~5.25GHz	5.25~5.35GHz	5.47~5.725GHz	5.725~5.85GHz		
2	-2.56	-3.39	-2.84	-2.30	LDS	shrapnel
3	-4.89	-2.71	-0.62	0.6	LDS	shrapnel

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

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ac (VHT160)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
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, 160 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz). Therefore the investigated worst case to the representative mode in test report. (Final test mode refer section 3.4)
4. Partial RU (resource units) and channel puncturing/bandwidth reduction configurations are not supported.

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 can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. X-axis/ Y-axis/ Z-axis Worst Condition: Y-axis

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11n (HT20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11n (HT40)	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	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	CDD & Beamforming	50, 114	BPSK	MCS0
	802.11ax (HE20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	CDD & Beamforming	50, 114	BPSK	MCS0

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
6 dB Bandwidth	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	CDD	144, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)	CDD	142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	138, 155	BPSK	MCS0
Occupied Bandwidth / Power Spectral Density	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)	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	802.11a	-	36	unmodulated	-
AC Power Conducted Emissions	802.11a	CDD	40	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	802.11a	CDD	40	BPSK	6Mb/s
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)	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

3.5 Duty Cycle of Test Signal

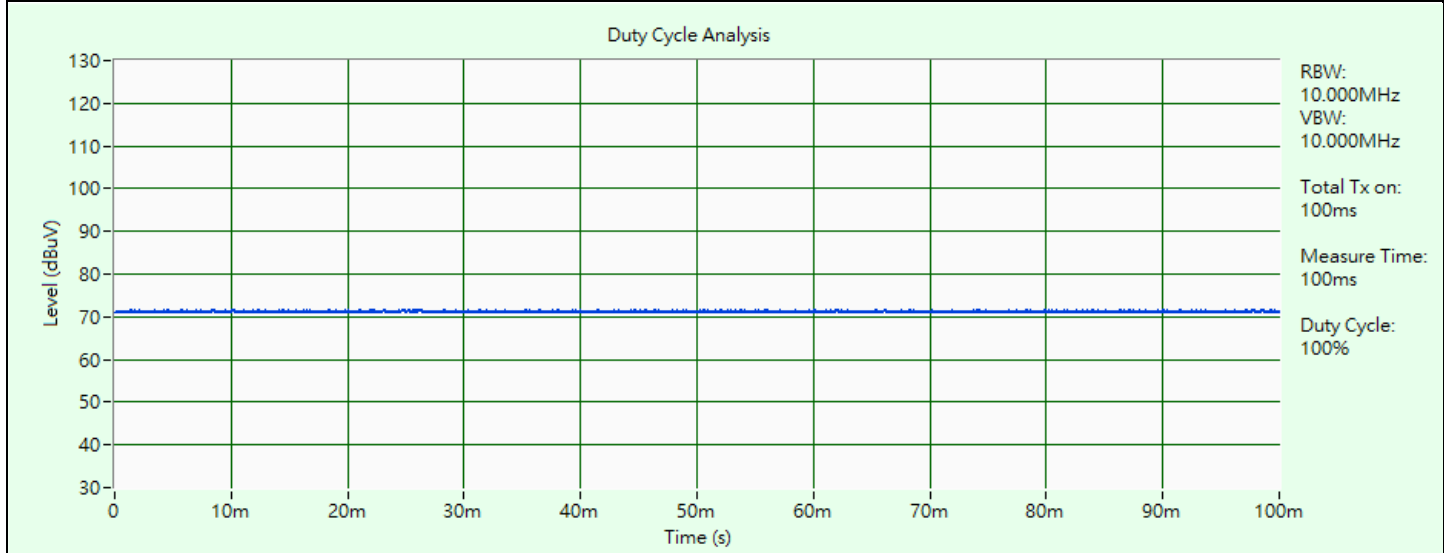
802.11a: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11n (HT20): Duty cycle = 100 ms / 100 ms x 100% = 100.0%

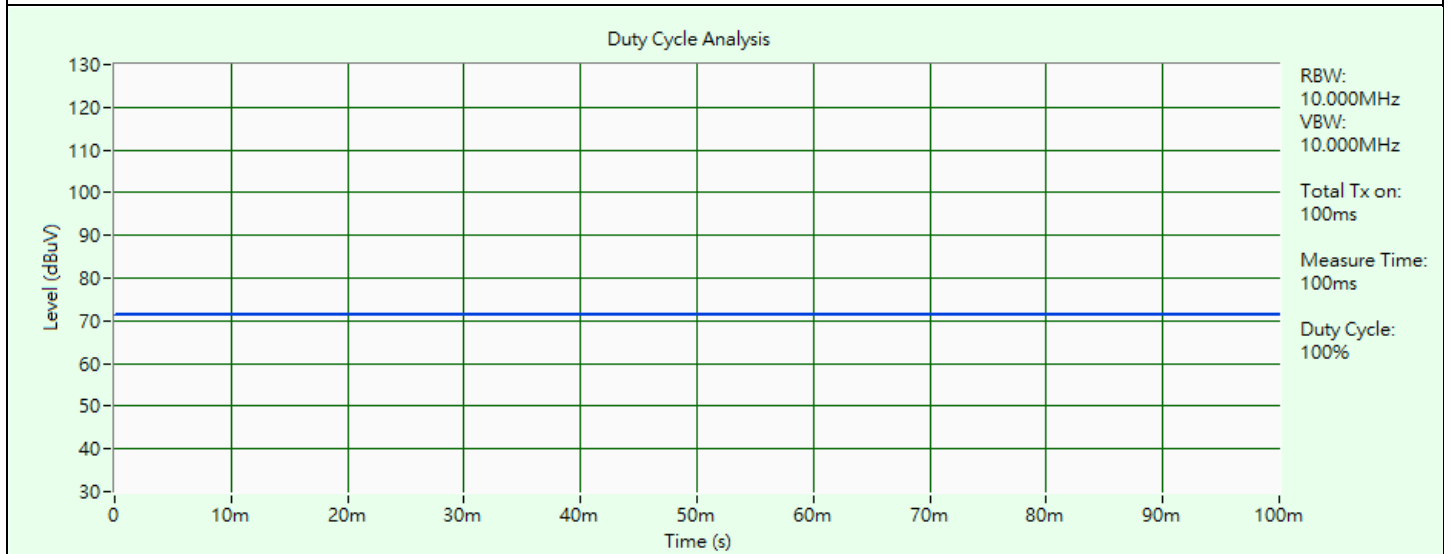
802.11n (HT40): Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11ax (HE80): Duty cycle = 2.225 ms / 2.23 ms x 100% = 99.8%

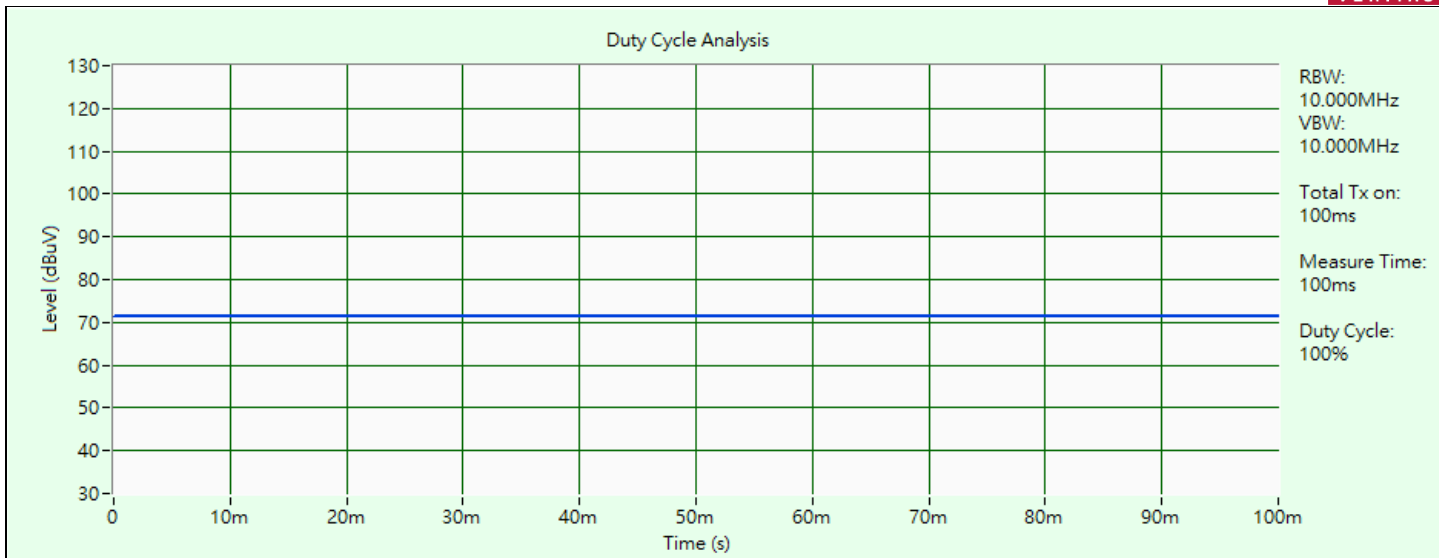
802.11ax (HE160): Duty cycle = 2.16 ms / 2.165 ms x 100% = 99.8%



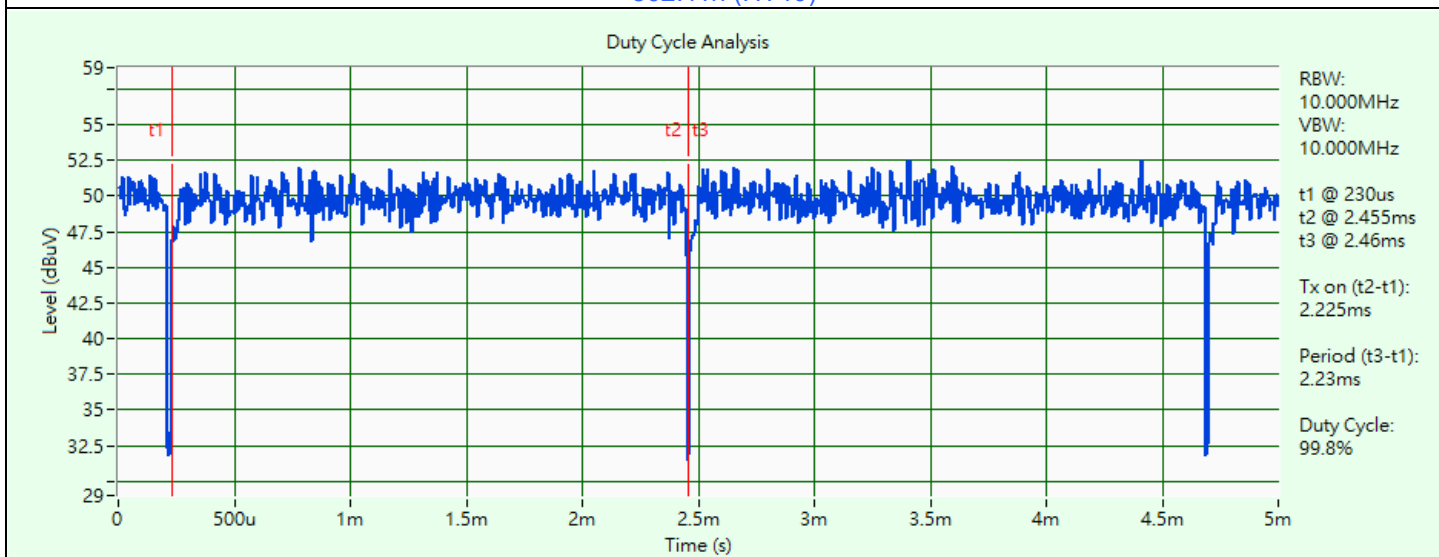
802.11a



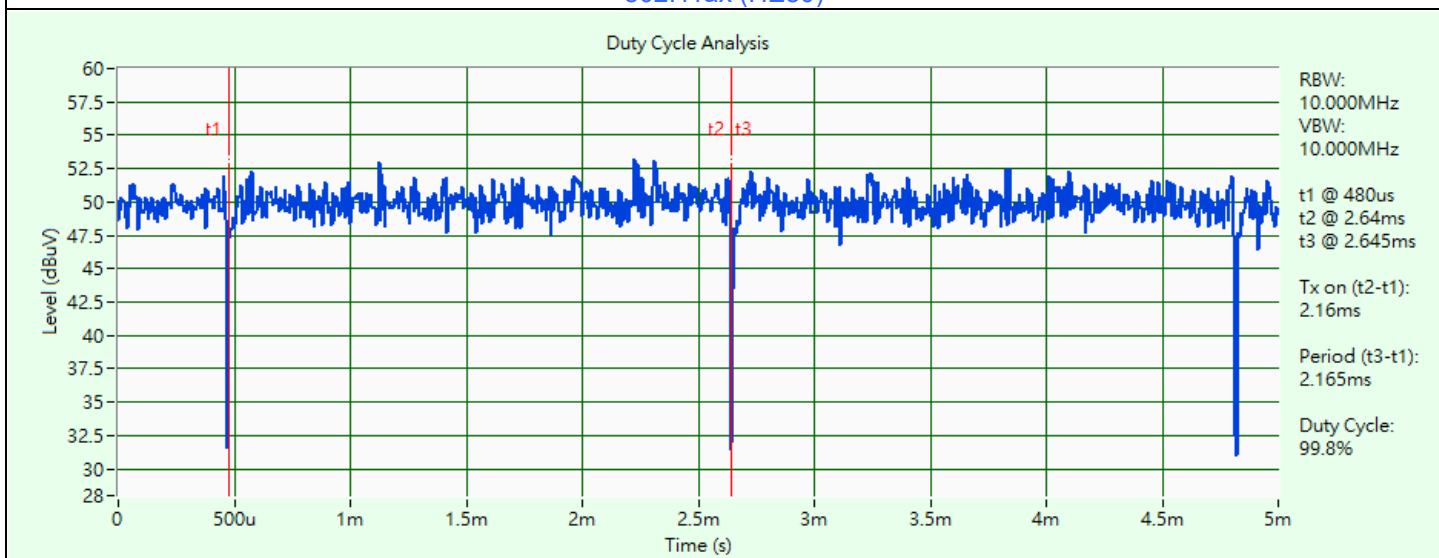
802.11n (HT20)



802.11n (HT40)



802.11ax (HE80)

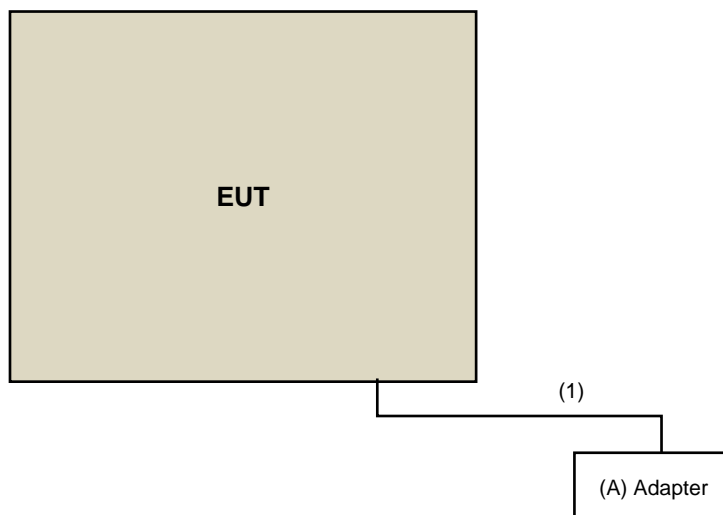


802.11ax (HE160)

3.6 Test Program Used and Operation Descriptions

Controlling software QRCT 4.0 Version 4.0.00166.0 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



Under Table

Remote Site

3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	FULLPOWER	TYPE-C45IC	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Type-C Cable	1	2	Yes	0	Supplied by applicant

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal & Spectrum Analyzer R&S	FSV3044	101105	2023/2/22	2024/2/21
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/2/26 ~ 2023/7/18

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer Keysight	8990B	MY51000485	2023/1/19	2024/1/18
Signal & Spectrum Analyzer R&S	FSV3044	101105	2023/2/22	2024/2/21
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Wideband Power Sensor Keysight	N1923A	MY58020002	2023/1/18	2024/1/17
		MY58140009	2023/1/18	2024/1/17

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/2/26 ~ 2023/7/18

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

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
3-channel DC power supply JIN YIH Technology	ODP3033	ODP30332128138	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2022/6/23 2023/7/6	2023/6/22 2024/7/5
Signal & Spectrum Analyzer R&S	FSV3044	101105	2023/2/22	2024/2/21
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSU43	100115	2023/1/17	2024/1/16
Temperature & Humidity Chamber Terchy	HRM-120RF	931022	2022/12/27	2023/12/26

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/2/26 ~ 2023/7/18

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
LISN R&S	ESH3-Z5	100311	2022/9/12	2023/9/11
LISN ROHDE & SCHWARZ	ENV216	101826	2022/3/14	2023/3/13
Receiver R&S	ESCI	100412	2022/8/22	2023/8/21
RF Coaxial Cable WOKEN	5D-FB	Cable-cond1-01	2023/1/7	2024/1/6
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2022/8/31	2023/8/30

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2023/2/3

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Spectrum Analyzer R&S	FSW43	101867	2022/12/30	2023/12/29
Test Receiver KEYSIGHT	N9038A	MY55420137	2022/4/27	2023/4/26
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A
Preamplifier Agilent	8447D	2944A10638	2022/05/14	2023/05/13
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2022/10/20	2023/10/19
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2022/05/14	2023/05/13

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2023/2/2

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
Horn Antenna Schwarzbeck	9120D	9120D-1169	2022/11/13	2023/11/12
	BBHA 9170	9170-480	2022/11/13	2023/11/12
		BBHA9170243	2022/11/13	2023/11/12
Pre-Amplifier EMCI	EMC 184045	980116	2022/10/1	2023/9/30
Preamplifier Agilent	8449B	3008A02367	2022/2/16	2023/2/15
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2022/7/9	2023/7/8
	EMC102-KM-KM-3000	150929	2022/7/9	2023/7/8
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2022/1/15	2023/1/14
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2022/1/15	2023/1/14
RF FLITER MICRO-TRONICS	BRM17690	004	2022/1/10	2023/1/9
	BRM50716	060	2022/1/10	2023/1/9
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Spectrum Analyzer R&S	FSW43	101867	2022/1/7	2023/1/6
Test Receiver KEYSIGHT	N9038A	MY55420137	2022/4/27	2023/4/26
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2022/12/19 ~ 2022/12/26

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

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

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

*B is the 26 dB emission bandwidth in megahertz

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

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

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

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

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

5.3 Power Spectral Density

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

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

5.4 6 dB Bandwidth

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

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

5.7 AC Power Conducted Emissions

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

Notes:

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

5.8 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.9 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

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

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

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

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

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

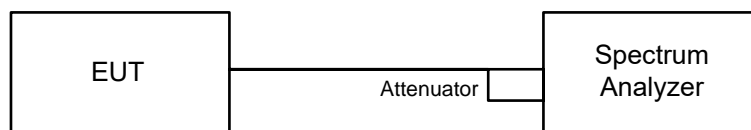
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

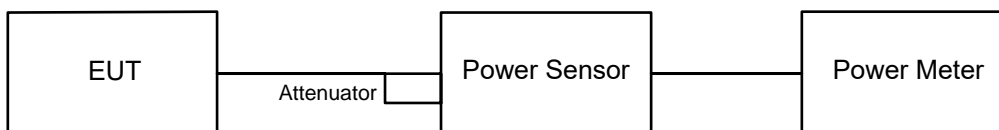


6.1.2 Test Procedure

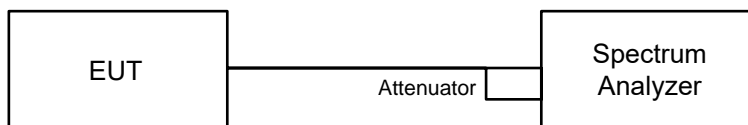
- a. Set RBW = approximately 1% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat 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:

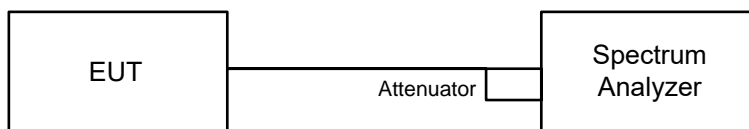
Method SA-1

- a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b. Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- c. 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.)
- d. Sweep time = auto, trigger set to "free run".
- e. Trace average at least 100 traces in power averaging mode.
- f. 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.

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

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

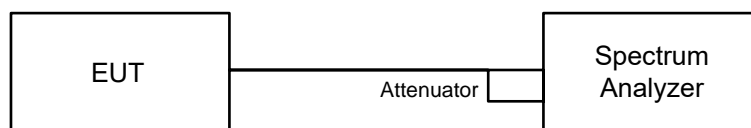
For specified measurement bandwidth 500 kHz:

Method SA-1

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

6.4 6 dB Bandwidth

6.4.1 Test Setup

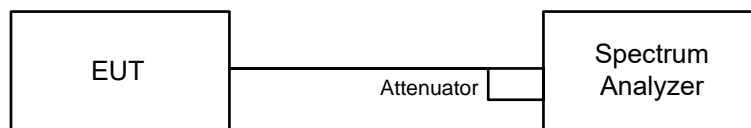


6.4.2 Test Procedure

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

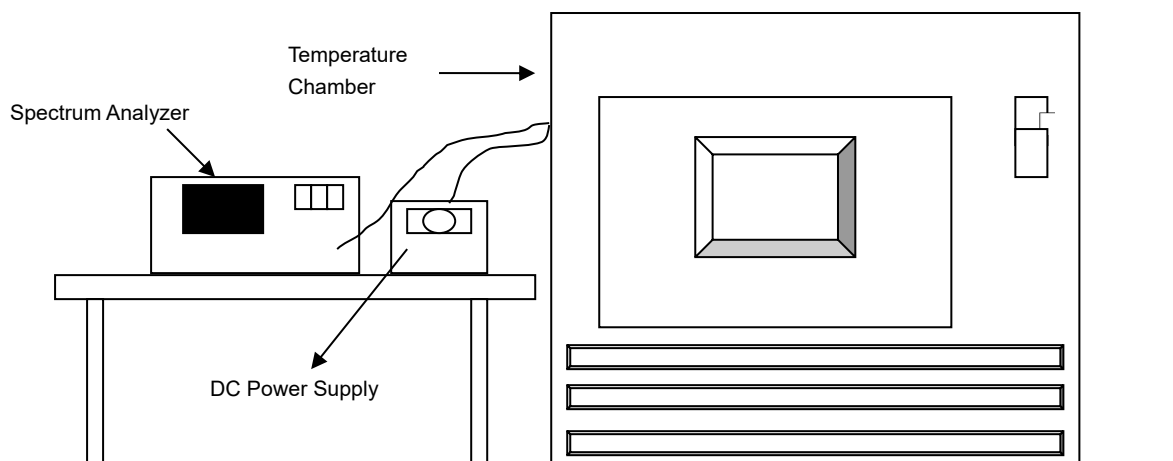


6.5.2 Test Procedure

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

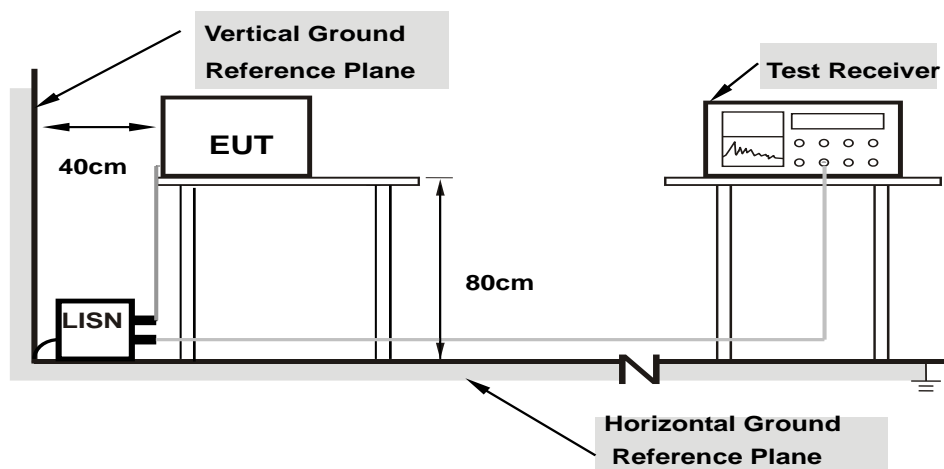


6.6.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC 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

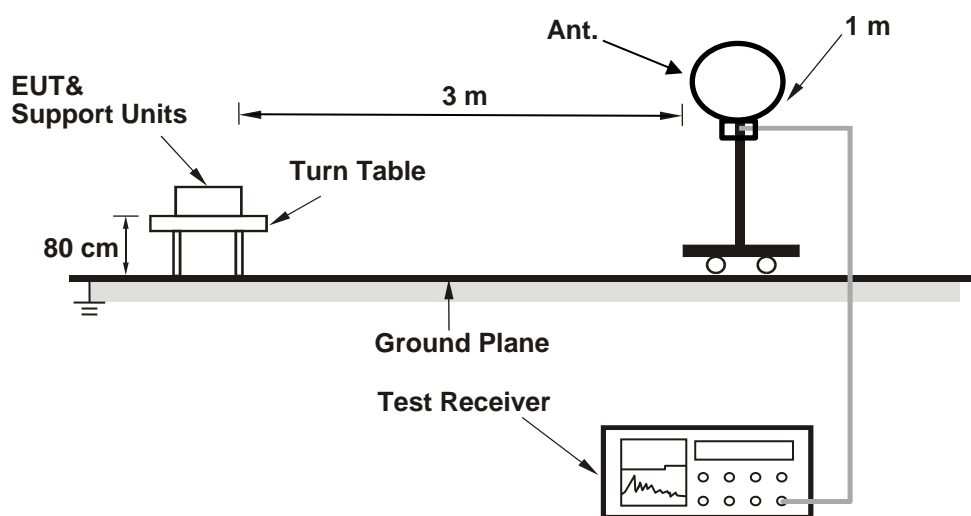
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

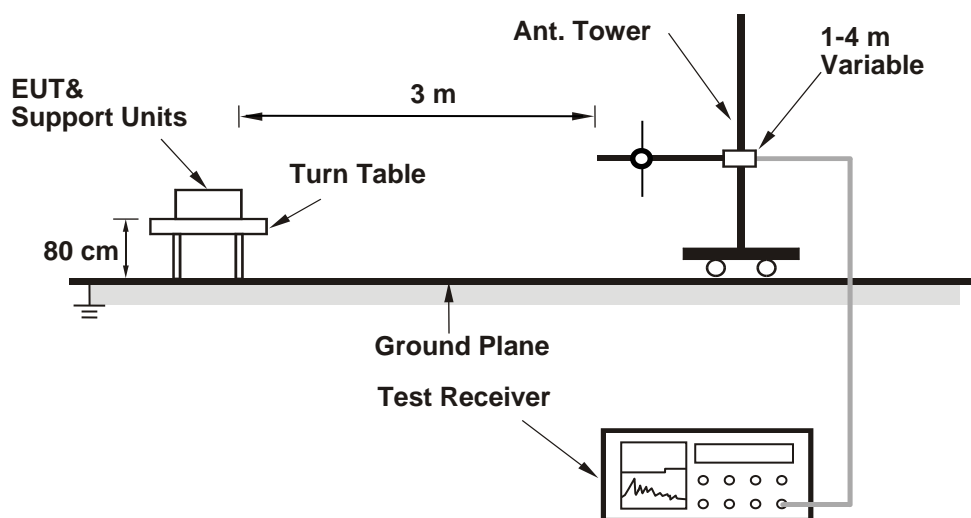
6.8 Unwanted Emissions below 1 GHz

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

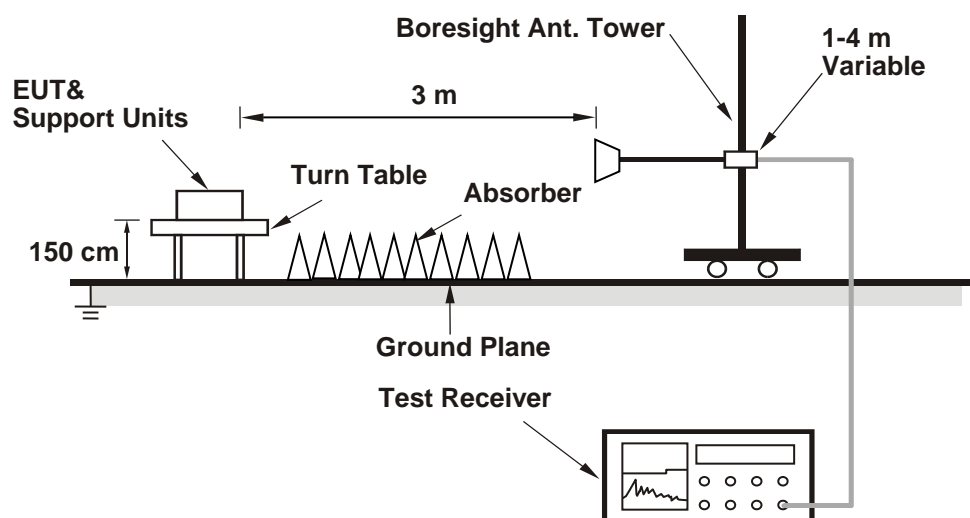
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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:	3.85 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Tim Chen/Chris Lin
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.02	20.18
60	5300	20.09	19.83
64	5320	20.08	19.94
100	5500	20.20	19.27
116	5580	20.05	19.69
140	5700	19.95	19.76
144 (U-NII-2C)	5720	15.21	15.11
144 (U-NII-3)	5720	4.91	4.70

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.02	24.01 > 24
60	5300	19.83	23.97 < 24
64	5320	19.94	23.99 < 24
100	5500	19.27	23.84 < 24
116	5580	19.69	23.94 < 24
140	5700	19.76	23.95 < 24
144 (U-NII-2C)	5720	15.11	22.79 < 24

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

802.11n (HT20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.90	20.77
60	5300	20.85	20.74
64	5320	21.11	20.77
100	5500	21.09	20.78
116	5580	20.74	20.88
140	5700	20.87	20.96
144 (U-NII-2C)	5720	15.57	15.44
144 (U-NII-3)	5720	5.52	5.25

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.77	24.17 > 24
60	5300	20.74	24.16 > 24
64	5320	20.77	24.17 > 24
100	5500	20.78	24.17 > 24
116	5580	20.74	24.16 > 24
140	5700	20.87	24.19 > 24
144 (U-NII-2C)	5720	15.44	22.88 < 24

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

802.11n (HT40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	40.05	40.33
62	5310	40.28	39.86
102	5510	40.10	40.30
110	5550	40.30	40.25
134	5670	40.46	39.90
142 (U-NII-2C)	5710	35.20	34.95
142 (U-NII-3)	5710	5.04	4.69

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	40.05	27.02 > 24
62	5310	39.86	27 > 24
102	5510	40.10	27.03 > 24
110	5550	40.25	27.04 > 24
134	5670	39.90	27 > 24
142 (U-NII-2C)	5710	34.95	26.43 > 24

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

802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	82.66	82.18
106	5530	82.56	82.44
122	5610	82.62	82.38
138 (U-NII-2C)	5690	76.59	76.57
138 (U-NII-3)	5690	6.25	6.18

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	82.18	30.14 > 24
106	5530	82.44	30.16 > 24
122	5610	82.38	30.15 > 24
138 (U-NII-2C)	5690	76.57	29.84 > 24

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

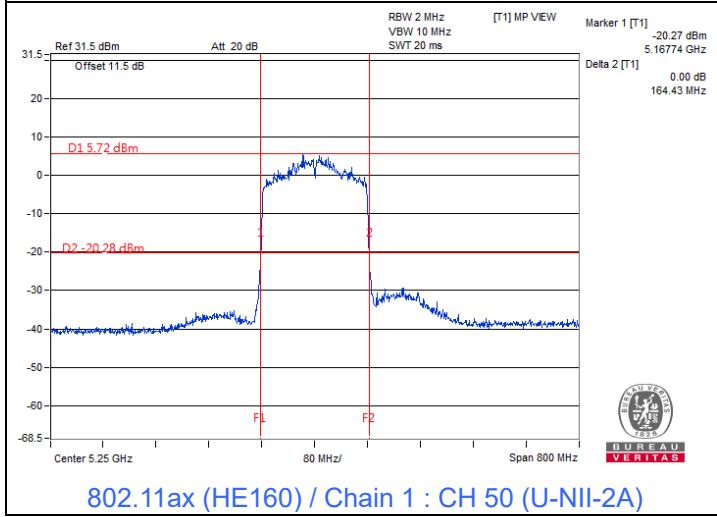
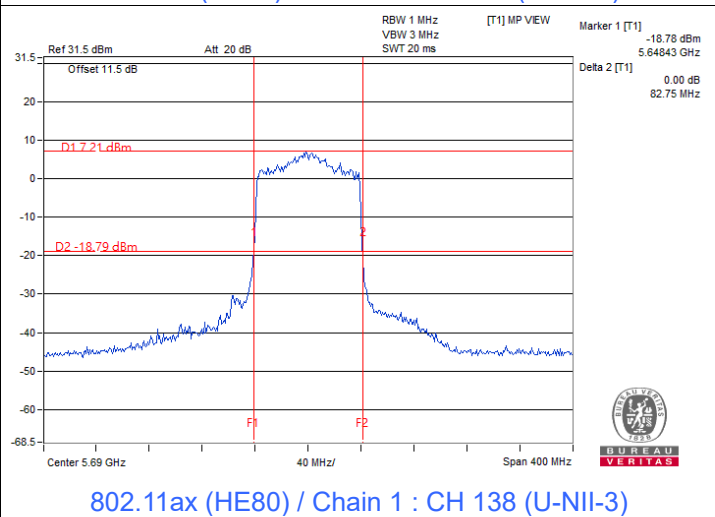
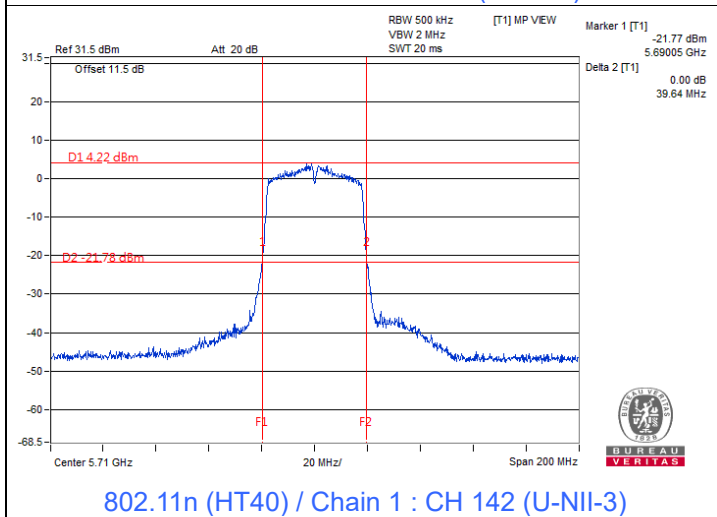
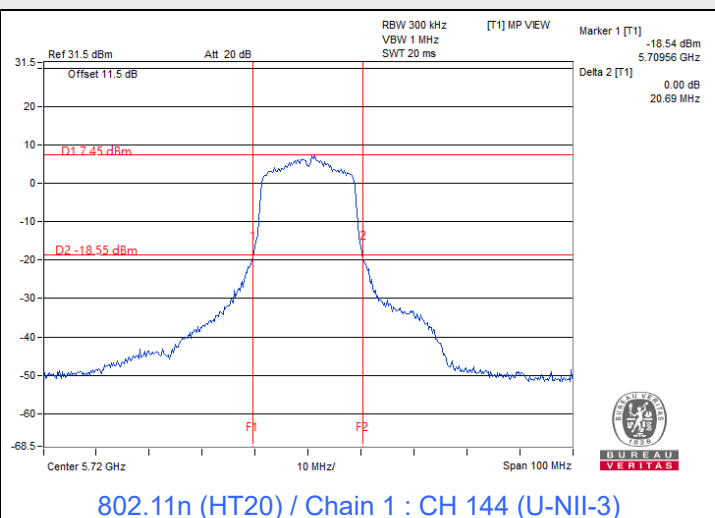
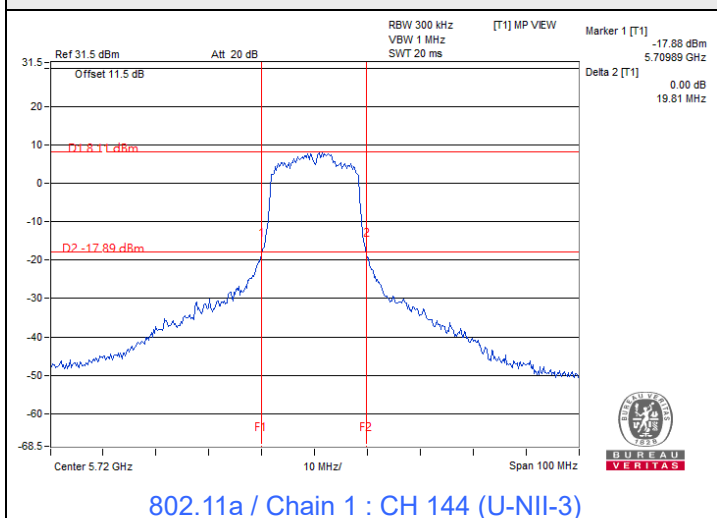
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	82.86	82.26
50 (U-NII-2A)	5250	82.55	82.17
114	5570	166.70	165.80

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	82.17	30.14 > 24
114	5570	165.80	33.19 > 24

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

Spectrum Plot of Minimum Value



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:	3.85 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Tim Chen/Chris Lin
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	15.06	15.85	70.522	18.48	24	Pass
40	5200	15.51	16.62	81.483	19.11	24	Pass
48	5240	14.88	15.76	68.431	18.35	24	Pass
52	5260	15.05	15.86	70.537	18.48	24	Pass
60	5300	14.75	16.15	71.064	18.52	23.97	Pass
64	5320	14.76	16.23	71.899	18.57	23.99	Pass
100	5500	14.75	15.10	62.213	17.94	23.84	Pass
116	5580	15.14	15.77	70.416	18.48	23.94	Pass
140	5700	16.65	14.98	77.716	18.91	23.95	Pass
*144 (U-NII-2C)	5720	14.83	13.60	53.318	17.27	22.79	Pass
*144 (U-NII-3)	5720	6.99	5.78	8.785	9.44	30	Pass
149	5745	15.83	15.16	71.092	18.52	30	Pass
157	5785	15.82	14.96	69.527	18.42	30	Pass
165	5825	15.03	15.28	65.571	18.17	30	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 -2.56 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is -2.71 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is -0.62 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	14.06	15.28	59.197	17.72	24	Pass
40	5200	14.27	15.23	60.073	17.79	24	Pass
48	5240	13.77	14.42	51.493	17.12	24	Pass
52	5260	13.78	14.35	51.105	17.08	24	Pass
60	5300	13.61	14.75	52.815	17.23	24	Pass
64	5320	13.63	14.96	54.4	17.36	24	Pass
100	5500	15.05	13.66	55.216	17.42	24	Pass
116	5580	13.89	14.40	52.033	17.16	24	Pass
140	5700	15.12	13.67	55.79	17.47	24	Pass
*144 (U-NII-2C)	5720	13.70	12.73	42.192	16.25	22.88	Pass
*144 (U-NII-3)	5720	6.23	5.41	7.673	8.85	30	Pass
149	5745	14.50	14.04	53.535	17.29	30	Pass
157	5785	14.45	13.85	52.127	17.17	30	Pass
165	5825	13.64	14.16	49.182	16.92	30	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 -2.56 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is -2.71 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is -0.62 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 0.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	13.93	14.85	55.266	17.42	24	Pass
46	5230	13.81	14.70	53.556	17.29	24	Pass
54	5270	13.71	14.13	49.378	16.94	24	Pass
62	5310	13.37	14.30	48.642	16.87	24	Pass
102	5510	14.77	13.39	51.819	17.14	24	Pass
110	5550	14.44	13.90	52.344	17.19	24	Pass
134	5670	14.71	14.26	56.249	17.50	24	Pass
*142 (U-NII-2C)	5710	14.63	13.53	51.583	17.13	24	Pass
*142 (U-NII-3)	5710	2.66	1.29	3.191	5.04	30	Pass
151	5755	14.18	13.59	49.038	16.91	30	Pass
159	5795	13.83	13.84	48.365	16.85	30	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 -2.56 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is -2.71 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is -0.62 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 0.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	12.37	13.19	38.103	15.81	24	Pass
40	5200	12.40	13.25	38.513	15.86	24	Pass
48	5240	11.75	12.29	31.906	15.04	24	Pass
52	5260	12.03	12.17	32.44	15.11	24	Pass
60	5300	11.71	12.56	32.855	15.17	24	Pass
64	5320	11.75	12.80	34.017	15.32	24	Pass
100	5500	13.26	11.69	35.941	15.56	24	Pass
116	5580	12.01	12.42	33.344	15.23	24	Pass
140	5700	13.15	12.64	39.019	15.91	24	Pass
*144 (U-NII-2C)	5720	11.77	10.80	27.054	14.32	24	Pass
*144 (U-NII-3)	5720	4.25	3.45	4.874	6.88	30	Pass
149	5745	12.61	12.30	35.221	15.47	30	Pass
157	5785	12.58	11.87	33.495	15.25	30	Pass
165	5825	11.84	12.25	32.064	15.06	30	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 -2.56 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is -2.71 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is -0.62 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	13.06	13.89	44.721	16.51	24	Pass
46	5230	12.82	13.54	41.737	16.21	24	Pass
54	5270	12.77	13.15	39.577	15.97	24	Pass
62	5310	12.39	13.37	39.065	15.92	24	Pass
102	5510	13.86	12.37	41.58	16.19	24	Pass
110	5550	13.62	12.84	42.245	16.26	24	Pass
134	5670	13.78	13.44	45.958	16.62	24	Pass
*142 (U-NII-2C)	5710	12.72	11.94	34.338	15.36	24	Pass
*142 (U-NII-3)	5710	0.33	0.07	2.095	3.21	30	Pass
151	5755	13.19	12.61	39.084	15.92	30	Pass
159	5795	12.82	12.84	38.373	15.84	30	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 -2.56 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is -2.71 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is -0.62 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	11.19	11.80	28.288	14.52	24	Pass
58	5290	11.34	11.84	28.89	14.61	24	Pass
106	5530	12.24	11.18	29.871	14.75	24	Pass
122	5610	11.39	11.70	28.563	14.56	24	Pass
*138 (U-NII-2C)	5690	11.35	10.80	25.668	14.09	24	Pass
*138 (U-NII-3)	5690	-4.39	-4.90	0.6875	-1.63	30	Pass
155	5775	11.74	11.20	28.111	14.49	30	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 -2.56 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is -2.71 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is -0.62 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 6 dBi = 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	6.83	7.40	10.315	10.13	24	Pass
*50 (U-NII-2A)	5250	6.37	7.35	9.768	9.90	24	Pass
114	5570	10.77	10.90	24.243	13.85	24	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 -2.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is -2.71 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is -0.62 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	12.54	13.29	39.278	15.94	24	Pass
40	5200	12.62	13.35	39.908	16.01	24	Pass
48	5240	11.91	12.46	33.144	15.20	24	Pass
52	5260	12.09	12.33	33.281	15.22	24	Pass
60	5300	11.84	12.62	33.557	15.26	24	Pass
64	5320	11.86	12.98	35.207	15.47	24	Pass
100	5500	13.34	11.82	36.783	15.66	24	Pass
116	5580	12.17	12.76	35.362	15.49	24	Pass
140	5700	13.39	12.79	40.838	16.11	24	Pass
*144 (U-NII-2C)	5720	11.84	10.88	27.522	14.40	24	Pass
*144 (U-NII-3)	5720	4.27	3.49	4.907	6.91	30	Pass
149	5745	12.74	12.30	35.776	15.54	30	Pass
157	5785	12.70	12.03	34.58	15.39	30	Pass
165	5825	11.92	12.35	32.739	15.15	30	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 -2.56 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is -2.71 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is -0.62 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	12.66	13.45	40.581	16.08	24	Pass
46	5230	12.44	13.18	38.336	15.84	24	Pass
54	5270	12.33	12.73	35.85	15.54	24	Pass
62	5310	11.95	12.96	35.437	15.49	24	Pass
102	5510	13.43	12.07	38.136	15.81	24	Pass
110	5550	13.17	12.45	38.328	15.84	24	Pass
134	5670	13.38	13.01	41.776	16.21	24	Pass
*142 (U-NII-2C)	5710	12.29	11.53	31.167	14.94	24	Pass
*142 (U-NII-3)	5710	-0.16	-4.97	1.2822	1.08	30	Pass
151	5755	12.74	12.28	35.698	15.53	30	Pass
159	5795	12.47	12.50	35.443	15.50	30	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 -2.56 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is -2.71 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is -0.62 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	11.31	11.86	28.867	14.60	24	Pass
58	5290	11.41	11.97	29.575	14.71	24	Pass
106	5530	12.38	11.25	30.633	14.86	24	Pass
122	5610	11.43	11.90	29.388	14.68	24	Pass
*138 (U-NII-2C)	5690	11.41	10.91	26.167	14.18	24	Pass
*138 (U-NII-3)	5690	-4.36	-4.82	0.696	-1.57	30	Pass
155	5775	11.84	11.26	28.642	14.57	30	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 -2.56 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is -2.71 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is -0.62 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.6 dBi < 6 dBi, so the output power limit shall not be reduced.

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				
*50 (U-NII-1)	5250	7.54	7.67	11.523	10.62	24	Pass
*50 (U-NII-2A)	5250	7.09	8.18	11.693	10.68	24	Pass
114	5570	10.89	10.97	24.777	13.94	24	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 -2.56 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is -2.71 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is -0.62 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	14.06	15.28	59.197	17.72	24	Pass
40	5200	14.27	15.23	60.073	17.79	24	Pass
48	5240	13.77	14.42	51.493	17.12	24	Pass
52	5260	13.78	14.35	51.105	17.08	24	Pass
60	5300	13.61	14.75	52.815	17.23	24	Pass
64	5320	13.63	14.96	54.4	17.36	24	Pass
100	5500	15.05	13.66	55.216	17.42	24	Pass
116	5580	13.89	14.40	52.033	17.16	24	Pass
140	5700	15.12	13.67	55.79	17.47	24	Pass
*144 (U-NII-2C)	5720	13.70	12.73	42.192	16.25	22.88	Pass
*144 (U-NII-3)	5720	6.23	5.41	7.673	8.85	30	Pass
149	5745	14.50	14.04	53.535	17.29	30	Pass
157	5785	14.45	13.85	52.127	17.17	30	Pass
165	5825	13.64	14.16	49.182	16.92	30	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 2.28 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	13.93	14.85	55.266	17.42	24	Pass
46	5230	13.81	14.70	53.556	17.29	24	Pass
54	5270	13.71	14.13	49.378	16.94	24	Pass
62	5310	13.37	14.30	48.642	16.87	24	Pass
102	5510	14.77	13.39	51.819	17.14	24	Pass
110	5550	14.44	13.90	52.344	17.19	24	Pass
134	5670	14.71	14.26	56.249	17.50	24	Pass
*142 (U-NII-2C)	5710	14.63	13.53	51.583	17.13	24	Pass
*142 (U-NII-3)	5710	2.66	1.29	3.191	5.04	30	Pass
151	5755	14.18	13.59	49.038	16.91	30	Pass
159	5795	13.83	13.84	48.365	16.85	30	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 2.28 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	12.37	13.19	38.103	15.81	24	Pass
40	5200	12.40	13.25	38.513	15.86	24	Pass
48	5240	11.75	12.29	31.906	15.04	24	Pass
52	5260	12.03	12.17	32.44	15.11	24	Pass
60	5300	11.71	12.56	32.855	15.17	24	Pass
64	5320	11.75	12.80	34.017	15.32	24	Pass
100	5500	13.26	11.69	35.941	15.56	24	Pass
116	5580	12.01	12.42	33.344	15.23	24	Pass
140	5700	13.15	12.64	39.019	15.91	24	Pass
*144 (U-NII-2C)	5720	11.77	10.80	27.054	14.32	24	Pass
*144 (U-NII-3)	5720	4.25	3.45	4.874	6.88	30	Pass
149	5745	12.61	12.30	35.221	15.47	30	Pass
157	5785	12.58	11.87	33.495	15.25	30	Pass
165	5825	11.84	12.25	32.064	15.06	30	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 2.28 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	13.06	13.89	44.721	16.51	24	Pass
46	5230	12.82	13.54	41.737	16.21	24	Pass
54	5270	12.77	13.15	39.577	15.97	24	Pass
62	5310	12.39	13.37	39.065	15.92	24	Pass
102	5510	13.86	12.37	41.58	16.19	24	Pass
110	5550	13.62	12.84	42.245	16.26	24	Pass
134	5670	13.78	13.44	45.958	16.62	24	Pass
*142 (U-NII-2C)	5710	12.72	11.94	34.338	15.36	24	Pass
*142 (U-NII-3)	5710	0.33	0.07	2.095	3.21	30	Pass
151	5755	13.19	12.61	39.084	15.92	30	Pass
159	5795	12.82	12.84	38.373	15.84	30	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 2.28 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	11.19	11.80	28.288	14.52	24	Pass
58	5290	11.34	11.84	28.89	14.61	24	Pass
106	5530	12.24	11.18	29.871	14.75	24	Pass
122	5610	11.39	11.70	28.563	14.56	24	Pass
*138 (U-NII-2C)	5690	11.35	10.80	25.668	14.09	24	Pass
*138 (U-NII-3)	5690	-4.39	-4.90	0.6875	-1.63	30	Pass
155	5775	11.74	11.20	28.111	14.49	30	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 2.28 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	6.83	7.40	10.315	10.13	24	Pass
*50 (U-NII-2A)	5250	6.37	7.35	9.768	9.90	24	Pass
114	5570	10.77	10.90	24.243	13.85	24	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.83 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	12.54	13.29	39.278	15.94	24	Pass
40	5200	12.62	13.35	39.908	16.01	24	Pass
48	5240	11.91	12.46	33.144	15.20	24	Pass
52	5260	12.09	12.33	33.281	15.22	24	Pass
60	5300	11.84	12.62	33.557	15.26	24	Pass
64	5320	11.86	12.98	35.207	15.47	24	Pass
100	5500	13.34	11.82	36.783	15.66	24	Pass
116	5580	12.17	12.76	35.362	15.49	24	Pass
140	5700	13.39	12.79	40.838	16.11	24	Pass
*144 (U-NII-2C)	5720	11.84	10.88	27.522	14.40	24	Pass
*144 (U-NII-3)	5720	4.27	3.49	4.907	6.91	30	Pass
149	5745	12.74	12.30	35.776	15.54	30	Pass
157	5785	12.70	12.03	34.58	15.39	30	Pass
165	5825	11.92	12.35	32.739	15.15	30	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 2.28 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	12.66	13.45	40.581	16.08	24	Pass
46	5230	12.44	13.18	38.336	15.84	24	Pass
54	5270	12.33	12.73	35.85	15.54	24	Pass
62	5310	11.95	12.96	35.437	15.49	24	Pass
102	5510	13.43	12.07	38.136	15.81	24	Pass
110	5550	13.17	12.45	38.328	15.84	24	Pass
134	5670	13.38	13.01	41.776	16.21	24	Pass
*142 (U-NII-2C)	5710	12.29	11.53	31.167	14.94	24	Pass
*142 (U-NII-3)	5710	-0.16	-4.97	1.2822	1.08	30	Pass
151	5755	12.74	12.28	35.698	15.53	30	Pass
159	5795	12.47	12.50	35.443	15.50	30	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 2.28 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	11.31	11.86	28.867	14.60	24	Pass
58	5290	11.41	11.97	29.575	14.71	24	Pass
106	5530	12.38	11.25	30.633	14.86	24	Pass
122	5610	11.43	11.90	29.388	14.68	24	Pass
*138 (U-NII-2C)	5690	11.41	10.91	26.167	14.18	24	Pass
*138 (U-NII-3)	5690	-4.36	-4.82	0.696	-1.57	30	Pass
155	5775	11.84	11.26	28.642	14.57	30	Pass

Notes:

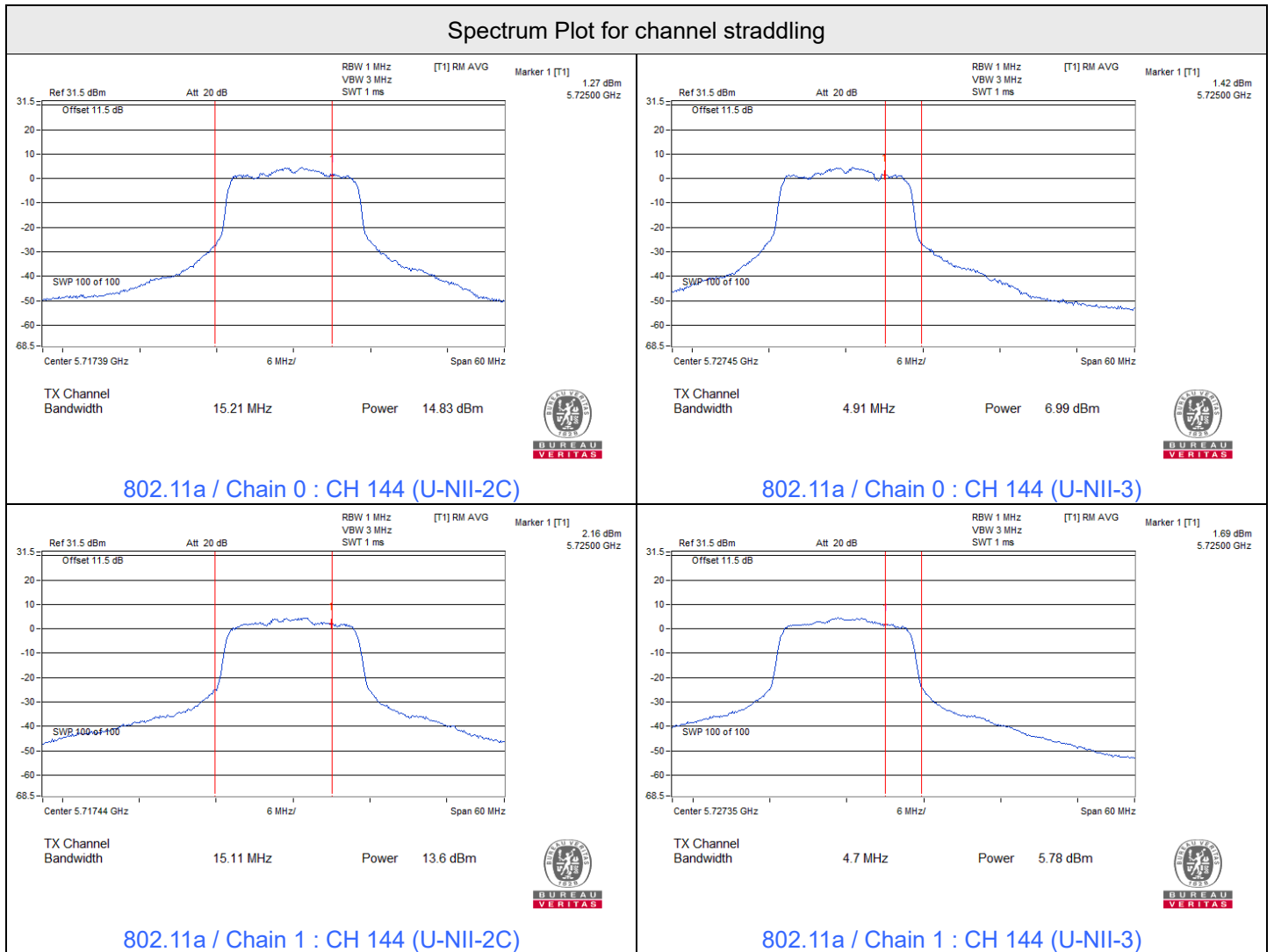
- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 2.28 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	7.54	7.67	11.523	10.62	24	Pass
*50 (U-NII-2A)	5250	7.09	8.18	11.693	10.68	24	Pass
114	5570	10.89	10.97	24.777	13.94	24	Pass

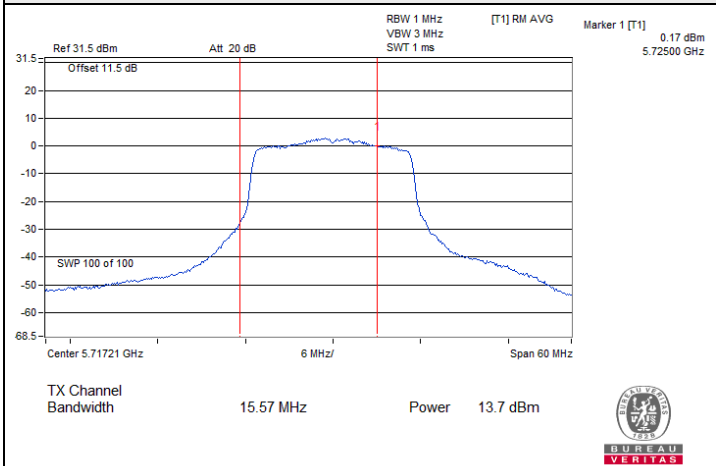
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log\left[\frac{10^{\text{Chain0}/20} + 10^{\text{Chain1}/20}}{2}\right]^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the output power limit shall not be reduced.

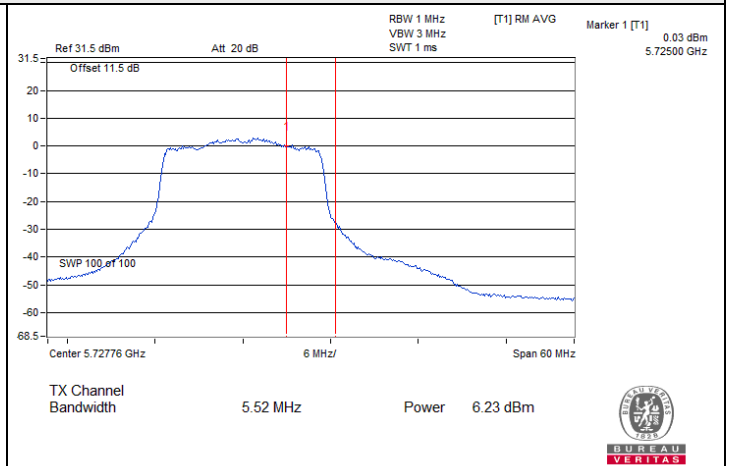




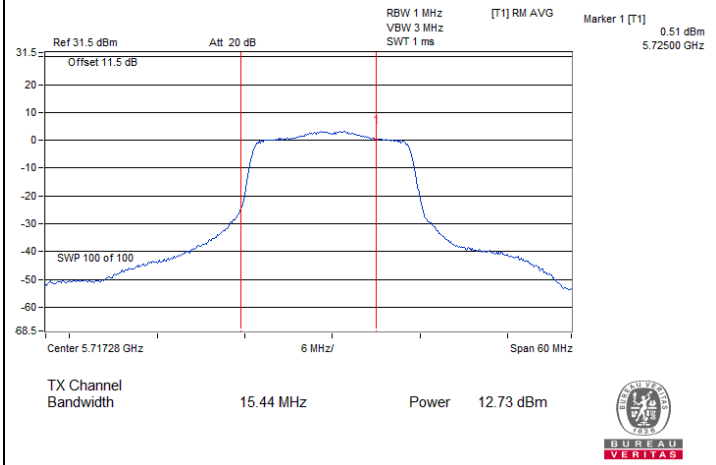
Spectrum Plot for channel straddling



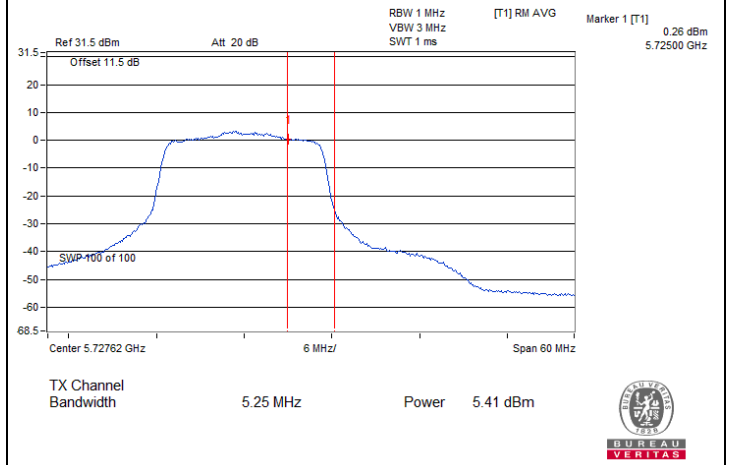
802.11n (HT20) / Chain 0 : CH 144 (U-NII-2C)



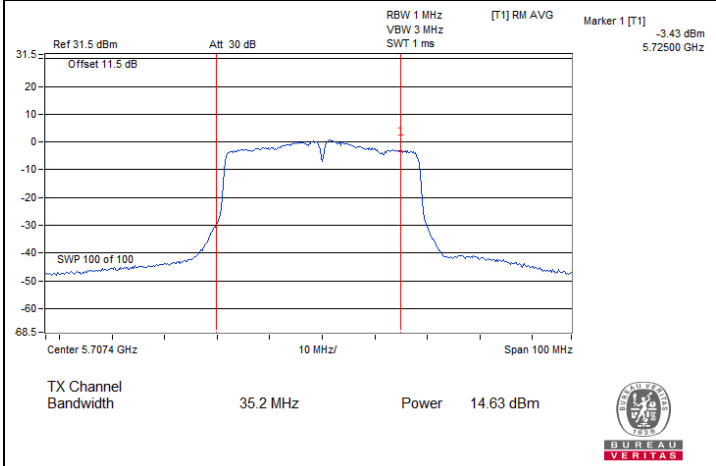
802.11n (HT20) / Chain 0 : CH 144 (U-NII-3)



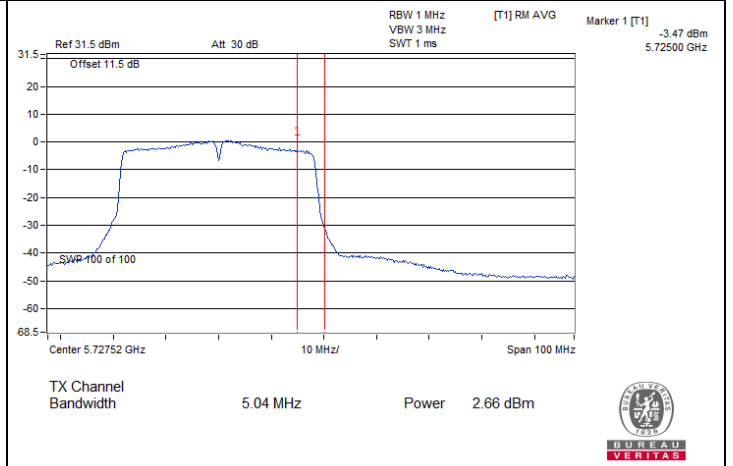
802.11n (HT20) / Chain 1 : CH 144 (U-NII-2C)



802.11n (HT20) / Chain 1 : CH 144 (U-NII-3)



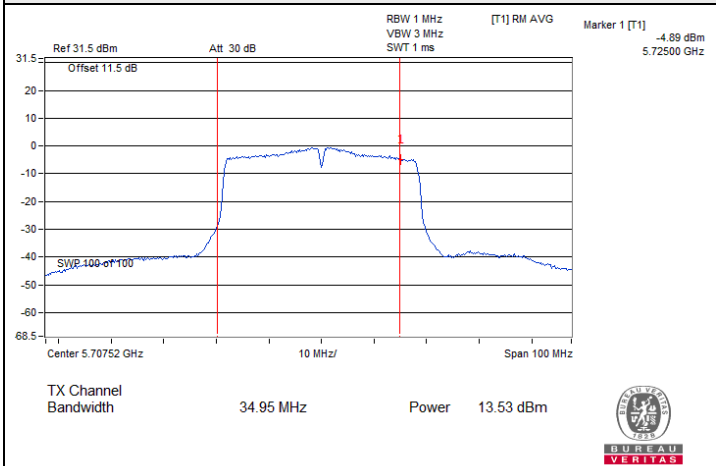
802.11n (HT40) / Chain 0 : CH 142 (U-NII-2C)



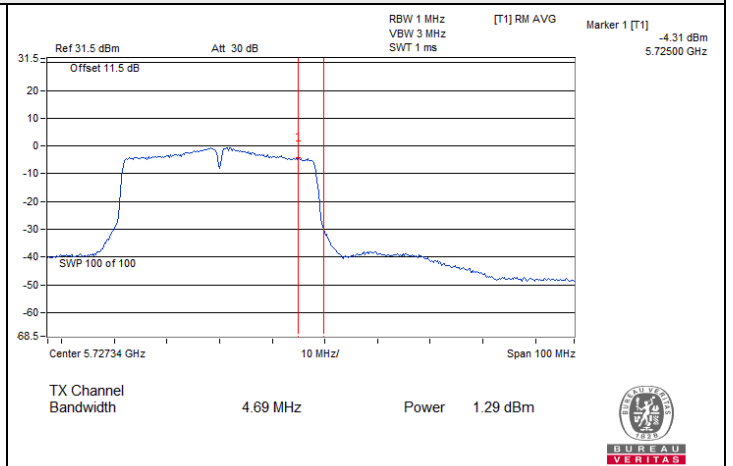
802.11n (HT40) / Chain 0 : CH 142 (U-NII-3)



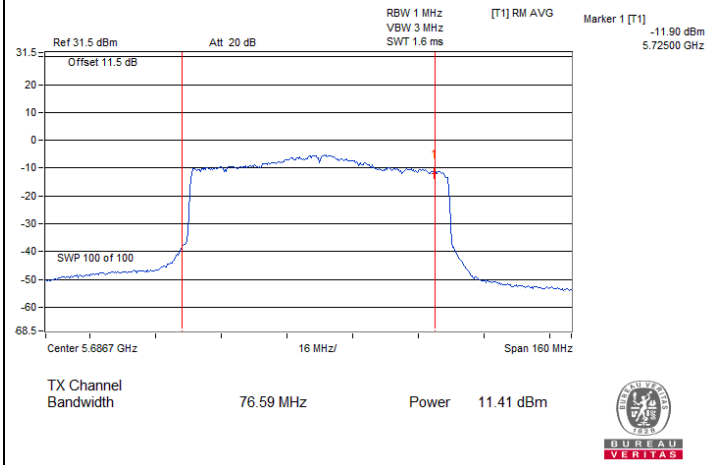
Spectrum Plot for channel straddling



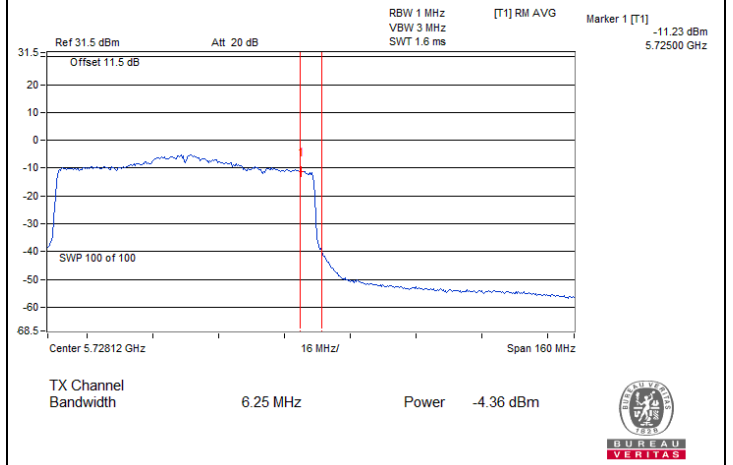
802.11n (HT40) / Chain 1 : CH 142 (U-NII-2C)



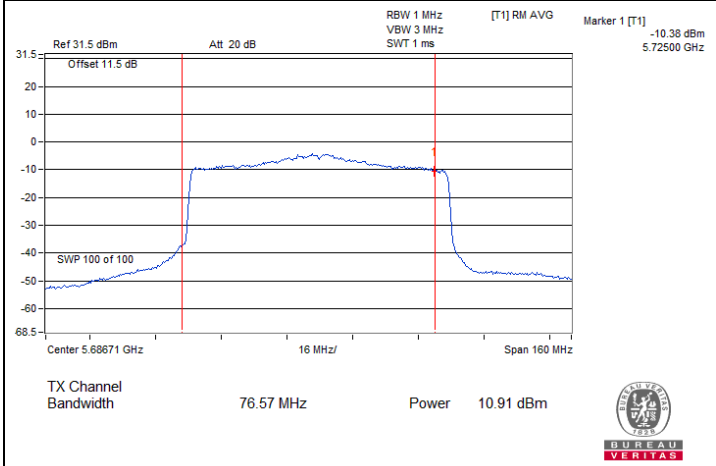
802.11n (HT40) / Chain 1 : CH 142 (U-NII-3)



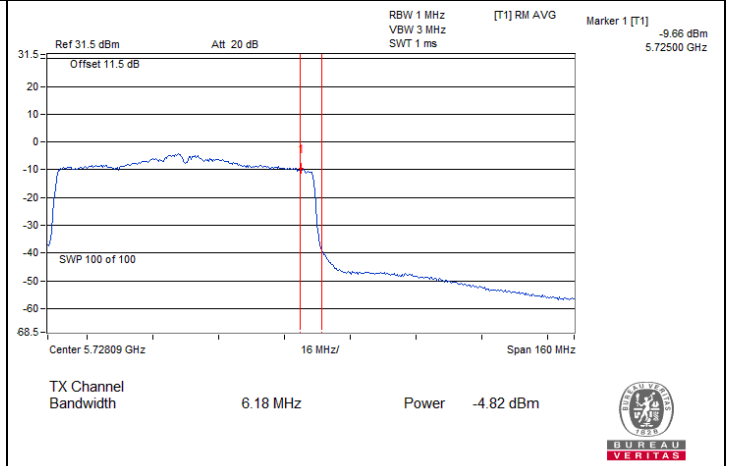
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



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



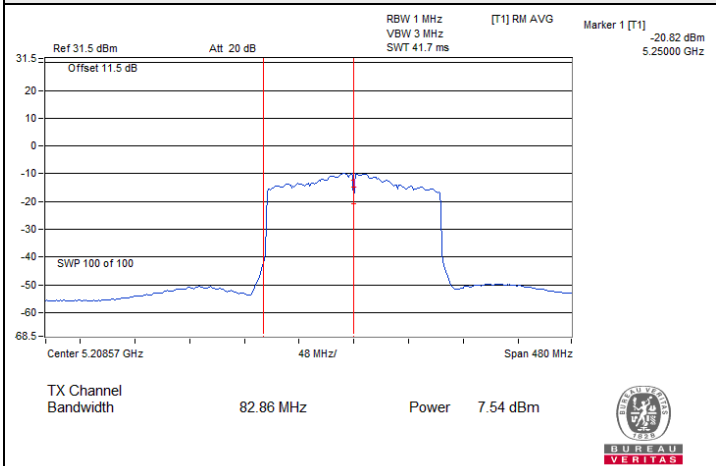
802.11ax (HE80) / Chain 1 : CH 138 (U-NII-2C)



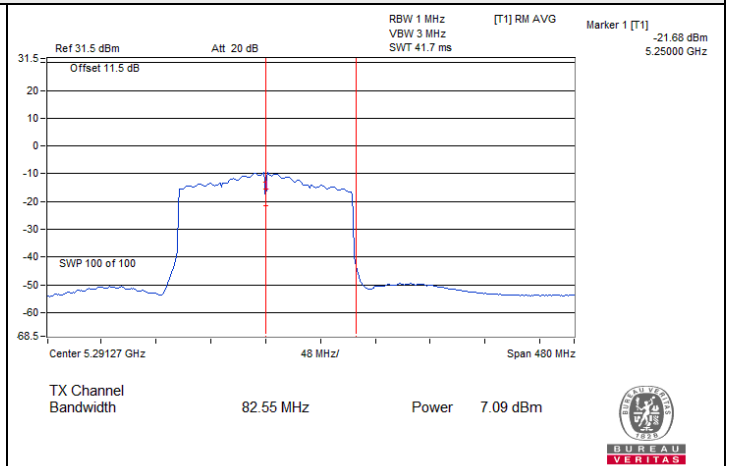
802.11ax (HE80) / Chain 1 : CH 138 (U-NII-3)



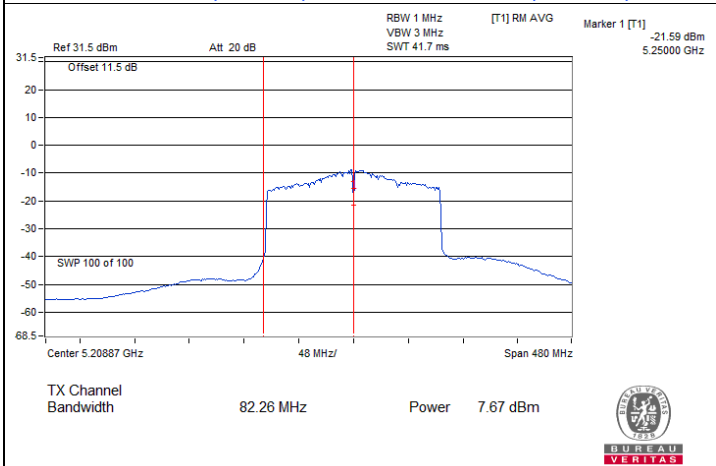
Spectrum Plot for channel straddling



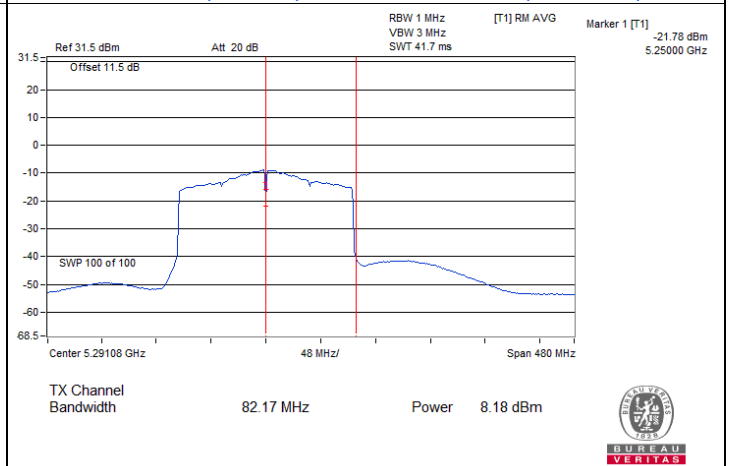
802.11ax (HE160) / Chain 0 : CH 50 (U-NII-1)



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)

7.3 Power Spectral Density

Input Power:	3.85 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Tim Chen/Chris Lin
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	2.37	2.62	5.51	11.00	Pass
40	5200	2.39	3.14	5.79	11.00	Pass
48	5240	1.78	2.49	5.16	11.00	Pass
52	5260	2.21	2.42	5.33	11.00	Pass
60	5300	1.86	2.82	5.38	11.00	Pass
64	5320	2.03	3.06	5.59	11.00	Pass
100	5500	2.01	2.43	5.24	11.00	Pass
116	5580	2.09	2.80	5.47	11.00	Pass
140	5700	2.69	1.98	5.36	11.00	Pass
144 (U-NII-2C)	5720	2.87	2.18	5.55	11.00	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	1.21	2.17	4.73	11.00	Pass
40	5200	1.28	2.39	4.88	11.00	Pass
48	5240	0.61	1.53	4.10	11.00	Pass
52	5260	0.78	1.31	4.06	11.00	Pass
60	5300	0.69	1.28	4.01	11.00	Pass
64	5320	0.76	1.41	4.11	11.00	Pass
100	5500	1.48	0.64	4.09	11.00	Pass
116	5580	0.75	1.14	3.96	11.00	Pass
140	5700	1.33	0.74	4.06	11.00	Pass
144 (U-NII-2C)	5720	1.32	1.06	4.20	11.00	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	-2.32	-1.51	1.11	11.00	Pass
46	5230	-2.60	-1.70	0.88	11.00	Pass
54	5270	-2.70	-2.08	0.63	11.00	Pass
62	5310	-2.78	-2.14	0.56	11.00	Pass
102	5510	-1.70	-2.48	0.94	11.00	Pass
110	5550	-1.96	-2.21	0.93	11.00	Pass
134	5670	-1.76	-1.94	1.16	11.00	Pass
142 (U-NII-2C)	5710	-1.36	-2.08	1.31	11.00	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	-7.26	-6.82	-4.02	11.00	Pass
58	5290	-7.30	-6.85	-4.06	11.00	Pass
106	5530	-6.35	-7.45	-3.85	11.00	Pass
122	5610	-7.34	-6.98	-4.15	11.00	Pass
138 (U-NII-2C)	5690	-6.34	-7.17	-3.72	11.00	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the power density limit shall not be reduced.

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			
50 (U-NII-1)	5250	-11.40	-10.77	-8.06	11.00	Pass
50 (U-NII-2A)	5250	-11.63	-10.91	-8.24	11.00	Pass
114	5570	-11.35	-11.01	-8.17	11.00	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is -0.64 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is -0.03 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 1.35 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-8.48	-9.25	-5.84	-3.62	30	Pass
149	5745	-5.73	-6.39	-3.04	-0.82	30	Pass
157	5785	-5.59	-6.82	-3.15	-0.93	30	Pass
165	5825	-6.21	-6.33	-3.26	-1.04	30	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 2.28 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-9.91	-10.10	-6.99	-4.77	30	Pass
149	5745	-7.50	-7.11	-4.29	-2.07	30	Pass
157	5785	-7.34	-7.65	-4.48	-2.26	30	Pass
165	5825	-7.97	-7.23	-4.57	-2.35	30	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 2.28 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
142 (U-NII-3)	5710	-14.62	-14.66	-11.63	-9.41	30	Pass
151	5755	-11.34	-11.39	-8.35	-6.13	30	Pass
159	5795	-11.39	-11.23	-8.3	-6.08	30	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 2.28 dBi < 6 dBi, so the power density limit shall not be reduced.

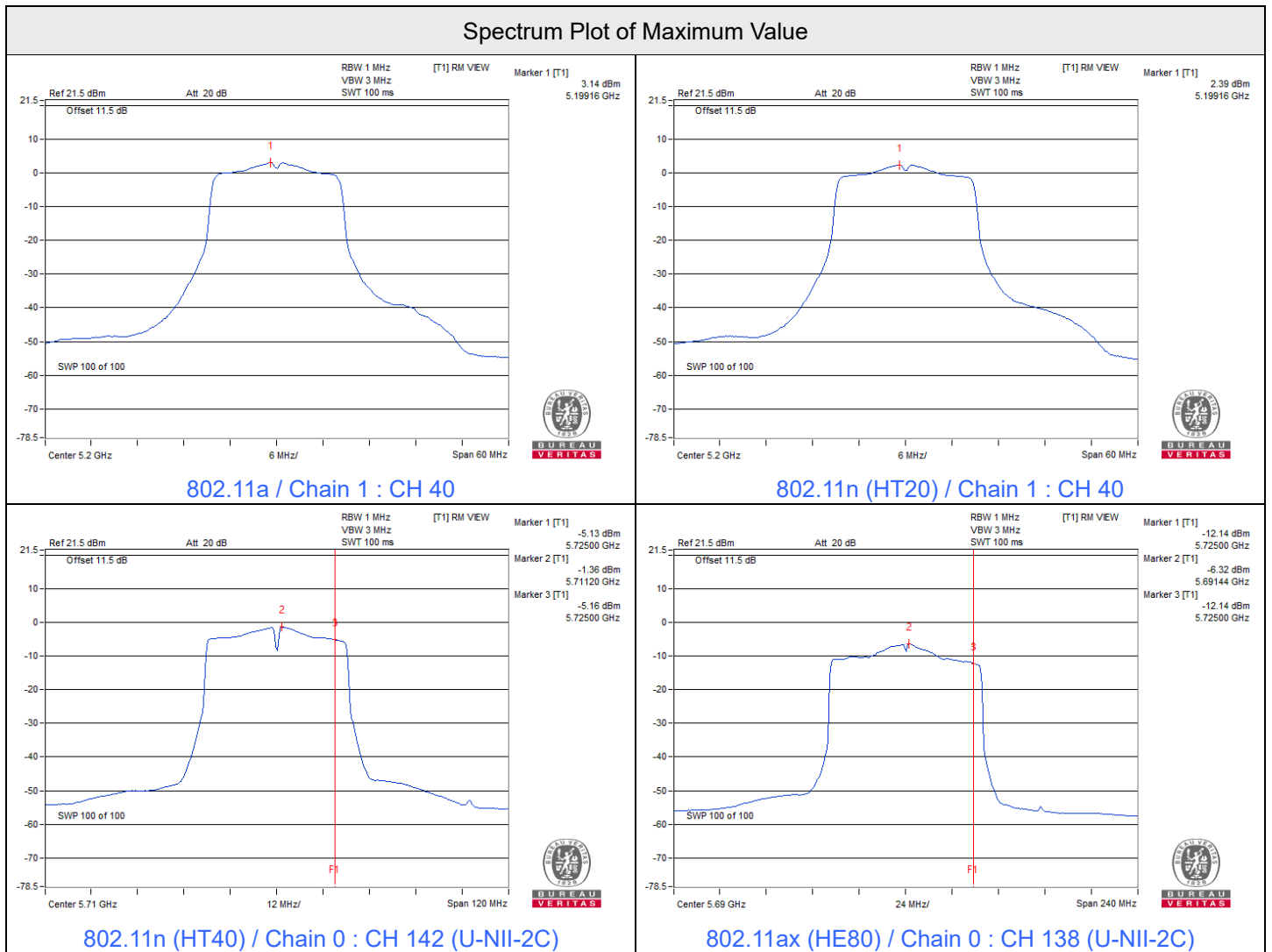


802.11ax (HE80)

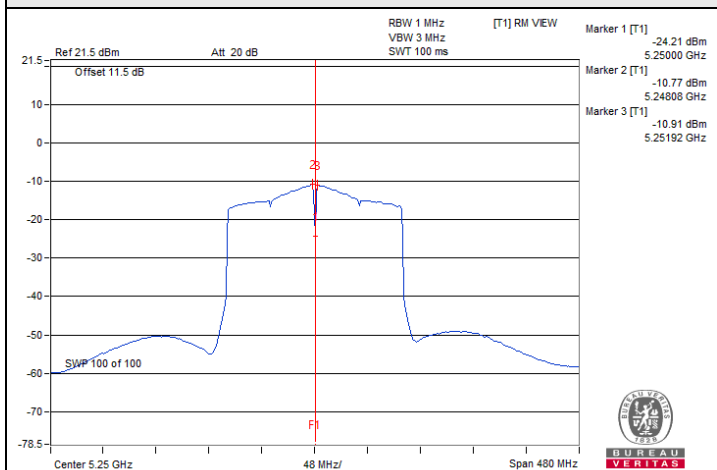
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
138 (U-NII-3)	5690	-21.44	-21.63	-18.52	-16.30	30	Pass
155	5775	-15.90	-16.11	-12.99	-10.77	30	Pass

Notes:

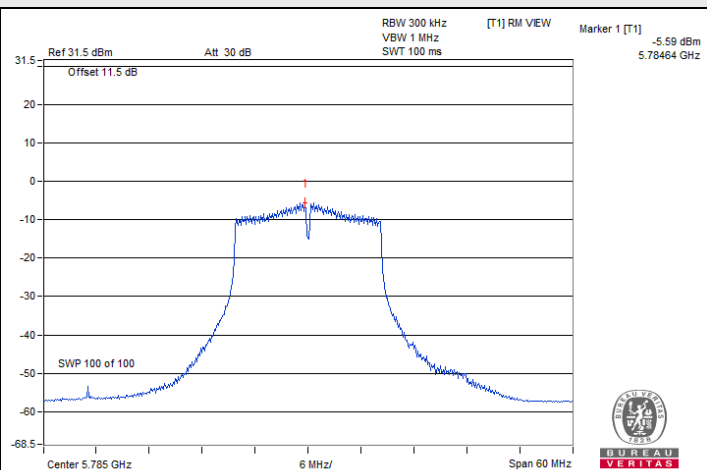
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 2.28 dBi < 6 dBi, so the power density limit shall not be reduced.



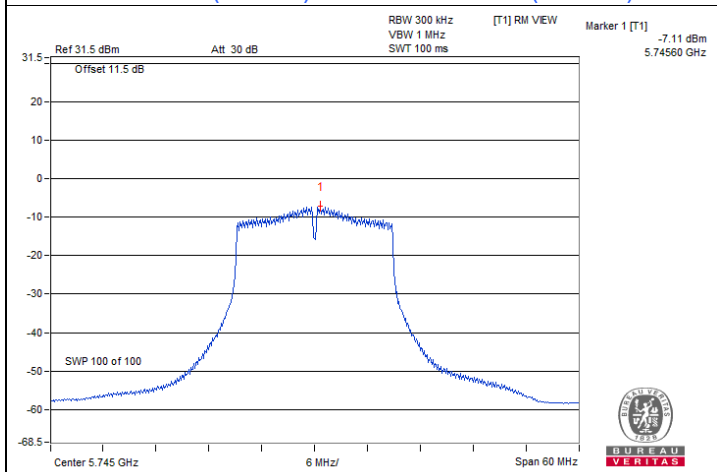
Spectrum Plot of Maximum Value



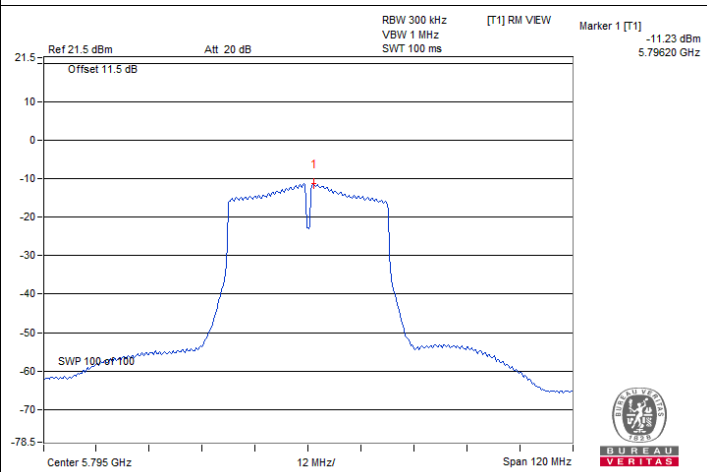
802.11ax (HE160) / Chain 1 : CH 50 (U-NII-1)



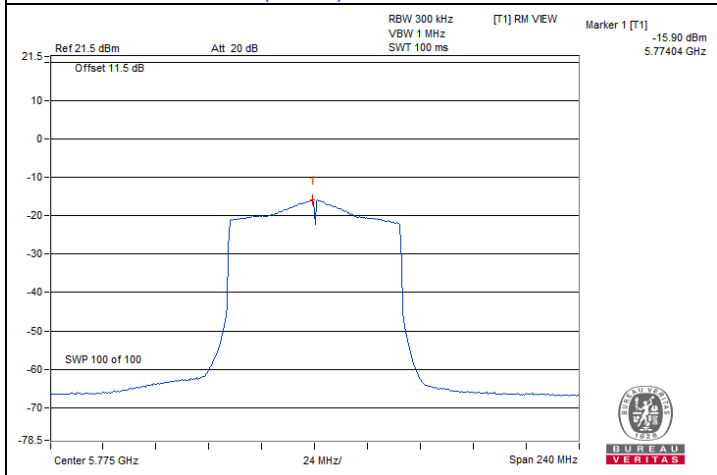
802.11a / Chain 0 : CH 157



802.11n (HT20) / Chain 1 : CH 149



802.11n (HT40) / Chain 1 : CH 159



802.11ax (HE80) / Chain 0 : CH 155

7.4 6 dB Bandwidth

Input Power:	3.85 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Tim Chen/Chris Lin
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	2.56	2.56	0.5	Pass
149	5745	15.20	15.77	0.5	Pass
157	5785	15.20	15.21	0.5	Pass
165	5825	15.17	15.15	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	2.56	2.56	0.5	Pass
149	5745	15.11	15.20	0.5	Pass
157	5785	15.18	15.19	0.5	Pass
165	5825	15.18	15.20	0.5	Pass

802.11n (HT40)

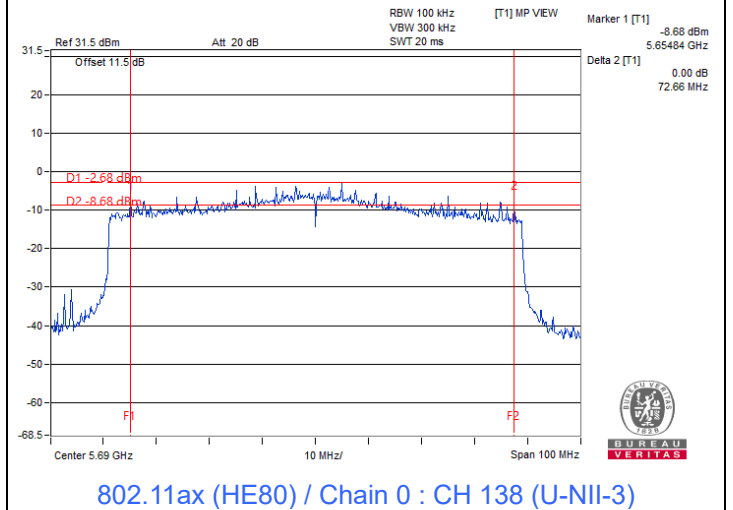
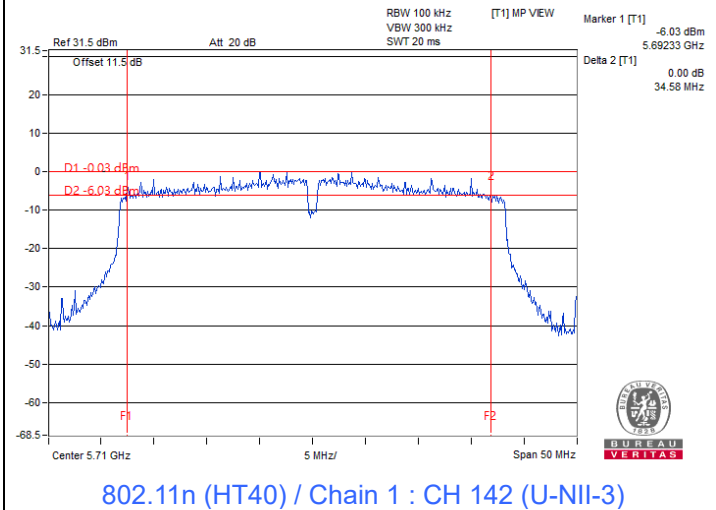
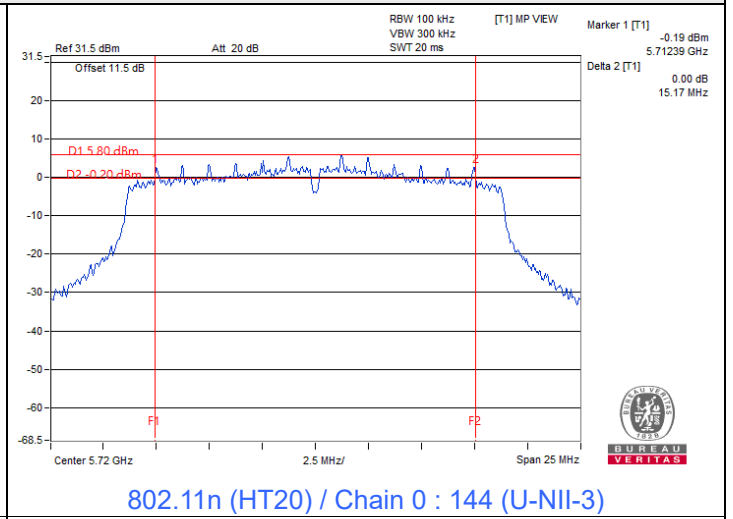
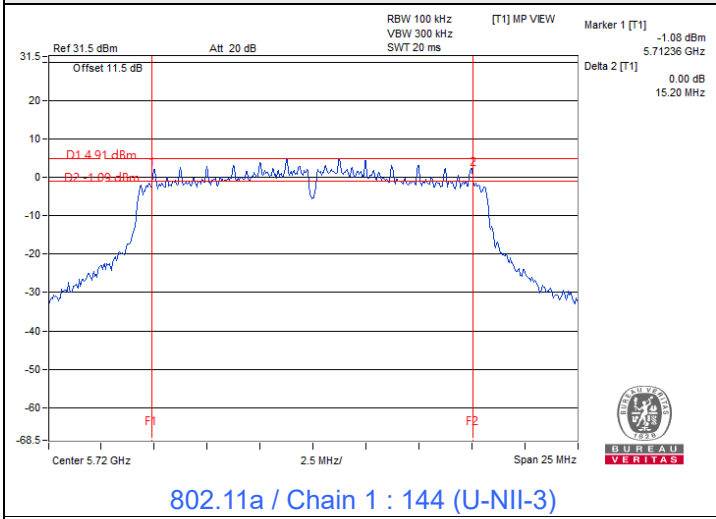
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	2.54	1.91	0.5	Pass
151	5755	35.25	35.21	0.5	Pass
159	5795	33.97	33.88	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	2.53	2.50	0.5	Pass
155	5775	72.69	71.46	0.5	Pass



Spectrum Plot of Minimum Value



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

7.5 Occupied Bandwidth

Input Power:	3.85 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Tim Chen/Chris Lin
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.32	16.32
40	5200	16.32	16.44
48	5240	16.32	16.44
52	5260	16.32	16.44
60	5300	16.32	16.44
64	5320	16.32	16.44
100	5500	16.32	16.44
116	5580	16.32	16.44
140	5700	16.32	16.32
144 (U-NII-2C)	5720	13.28	13.28
144 (U-NII-3)	5720	3.04	3.04
149	5745	16.32	16.92
157	5785	16.32	16.32
165	5825	16.32	16.38

802.11n (HT20)

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

802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.24	36.00
46	5230	36.24	36.00
54	5270	36.00	36.00
62	5310	36.24	36.00
102	5510	36.24	36.00
110	5550	36.24	36.24
134	5670	36.00	36.00
142 (U-NII-2C)	5710	33.24	33.24
142 (U-NII-3)	5710	3.00	2.76
151	5755	36.24	36.24
159	5795	36.00	36.00

802.11ax (HE80)

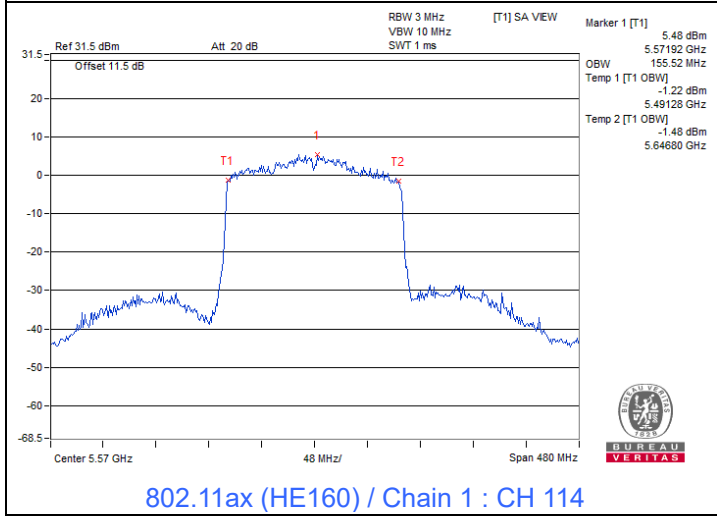
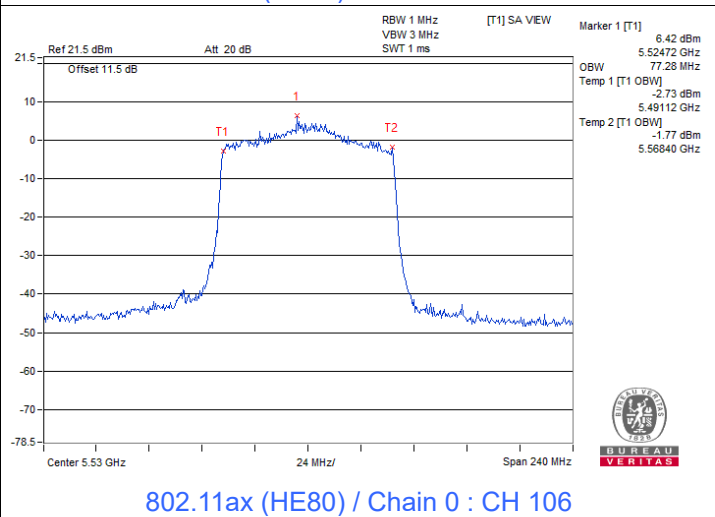
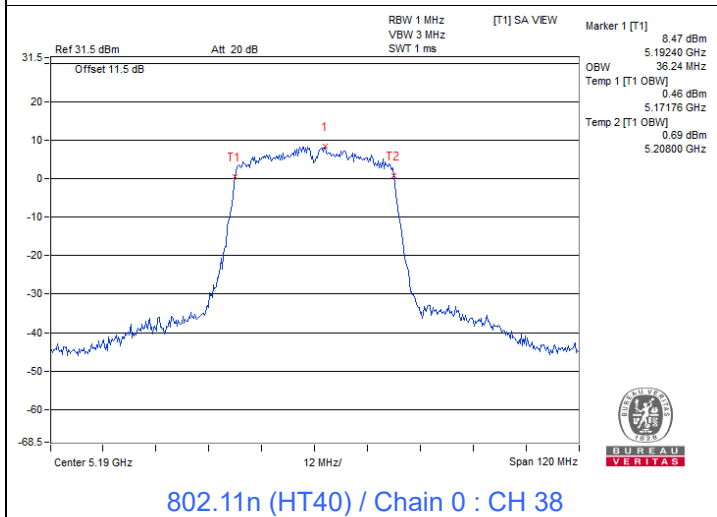
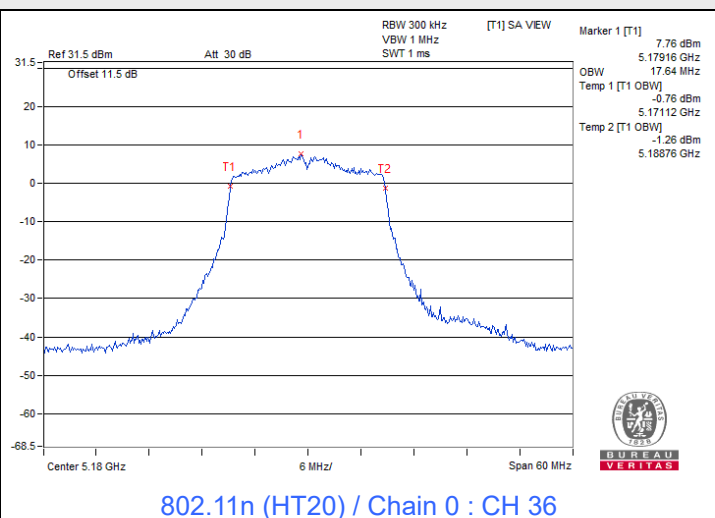
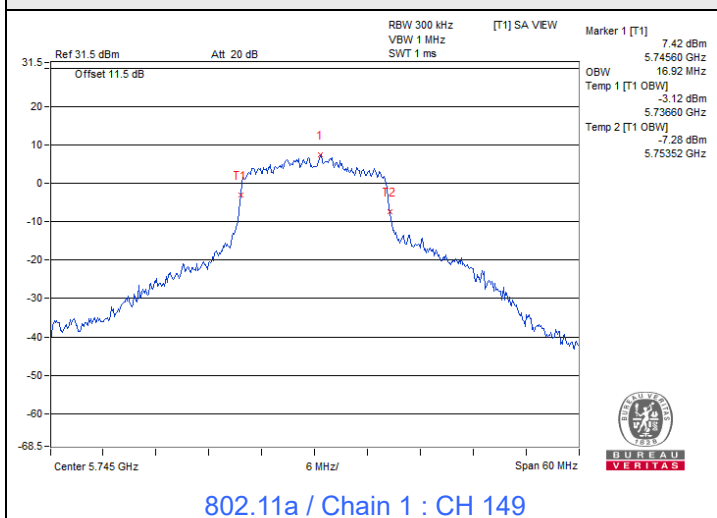
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	76.80	76.80
58	5290	76.80	76.80
106	5530	77.28	76.80
122	5610	76.80	76.80
138 (U-NII-2C)	5690	73.88	73.88
138 (U-NII-3)	5690	2.92	2.92
155	5775	76.80	76.80

802.11ax (HE160)

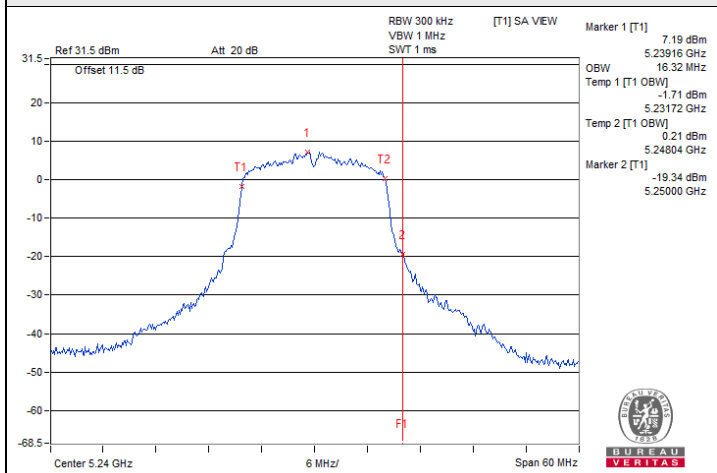
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	78.72	78.72
50 (U-NII-2A)	5250	77.76	77.76
114	5570	154.56	155.52



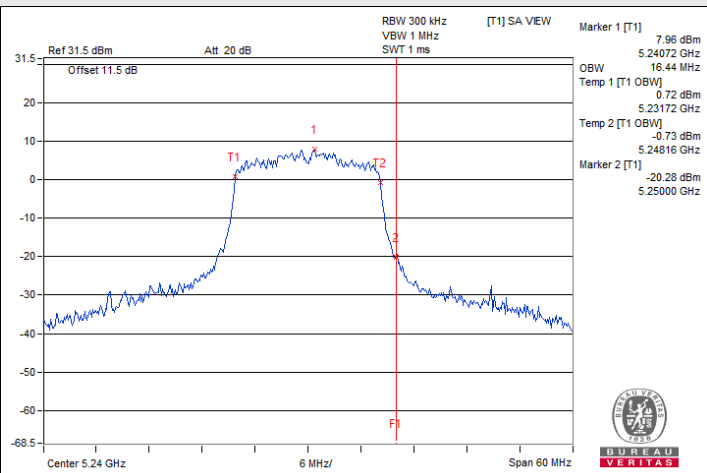
Spectrum Plot of Maximum Value



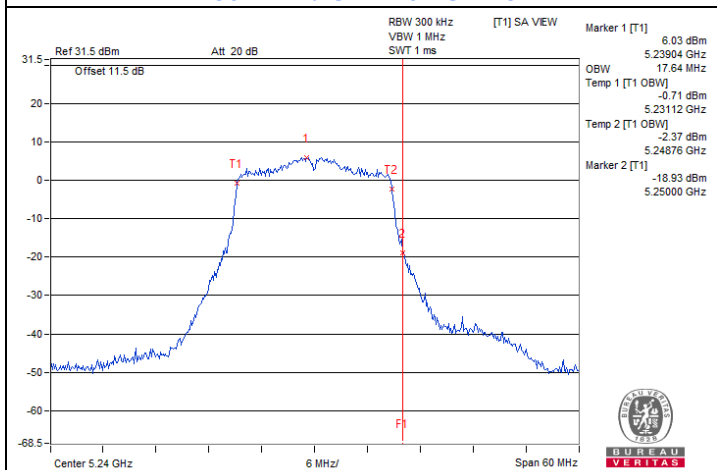
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



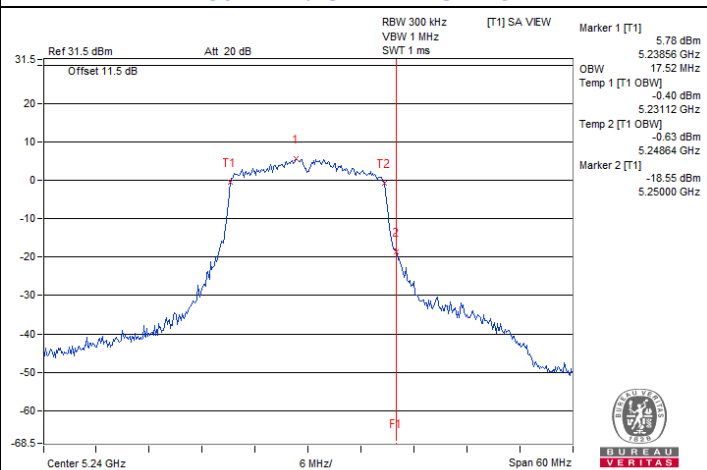
802.11a / Chain 0 : CH 48



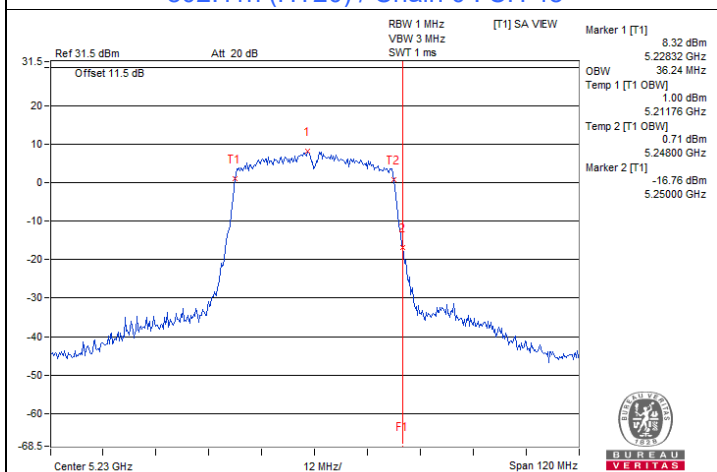
802.11a / Chain 1 : CH 48



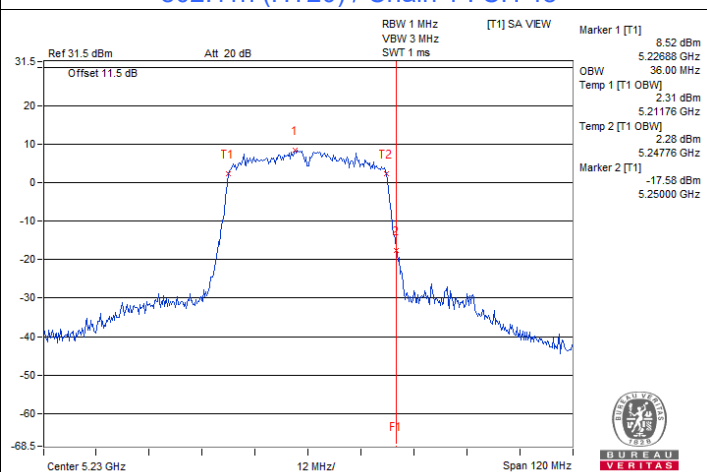
802.11n (HT20) / Chain 0 : CH 48



802.11n (HT20) / Chain 1 : CH 48

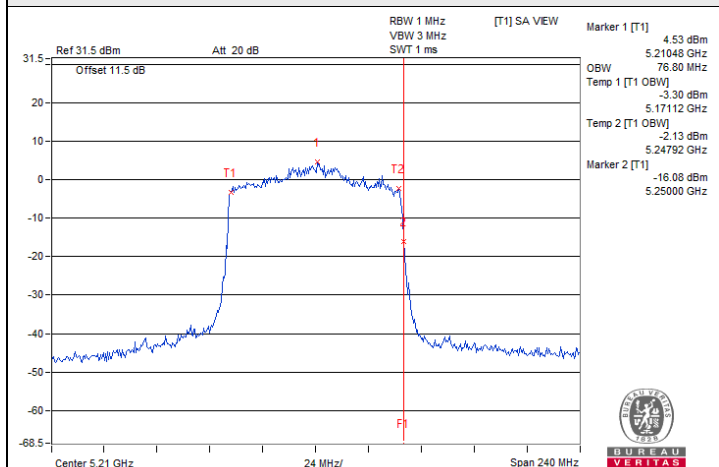


802.11n (HT40) / Chain 0 : CH 46

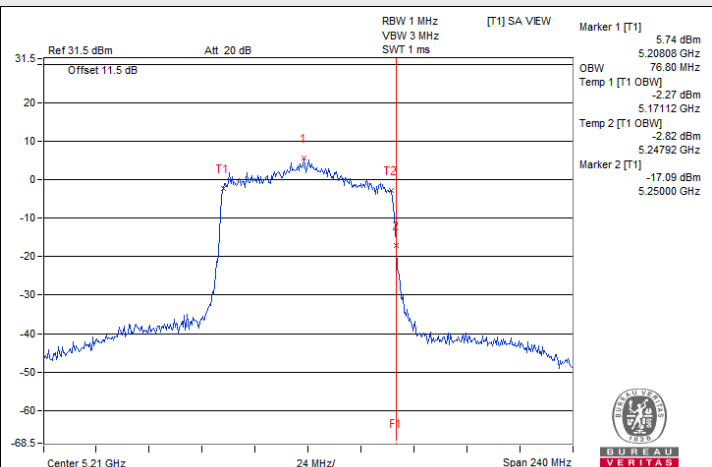


802.11n (HT40) / Chain 1 : CH 46

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

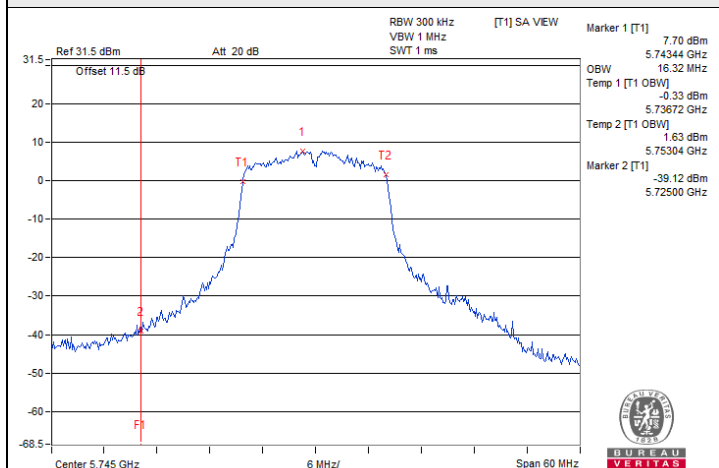


802.11ax (HE80) / Chain 0 : CH 42

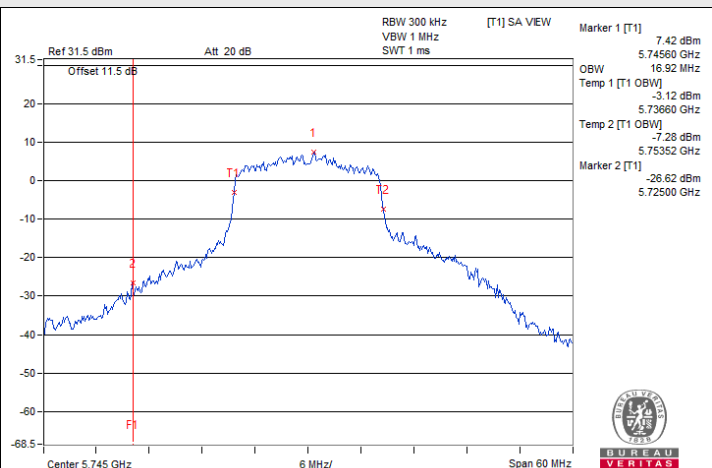


802.11ax (HE80) / Chain 1 : CH 42

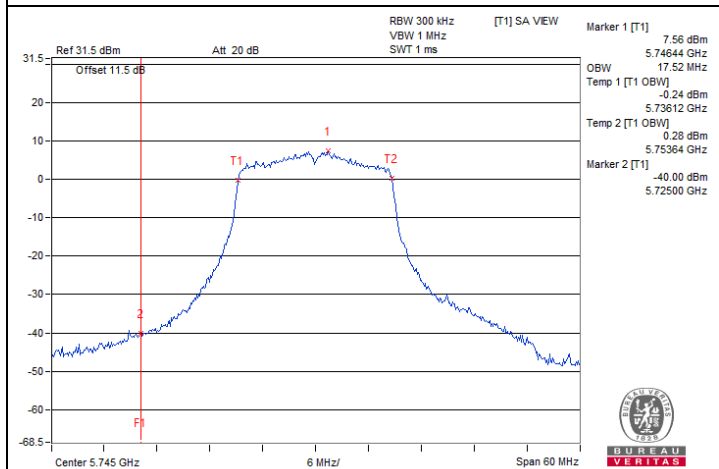
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



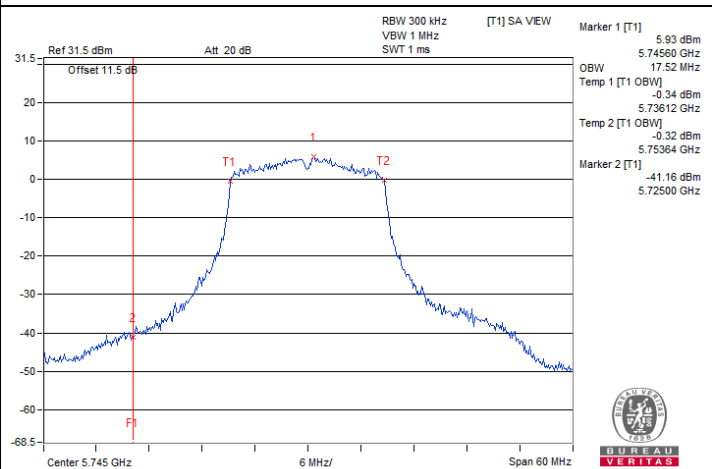
802.11a / Chain 0 : CH 149



802.11a / Chain 1 : CH 149

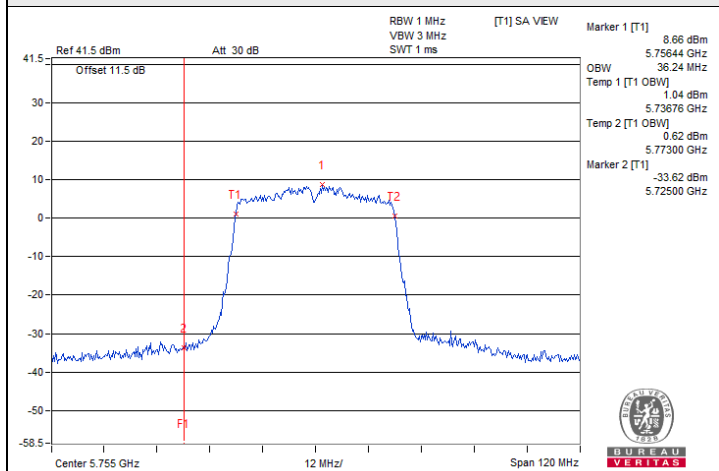


802.11n (HT20) / Chain 0 : CH 149

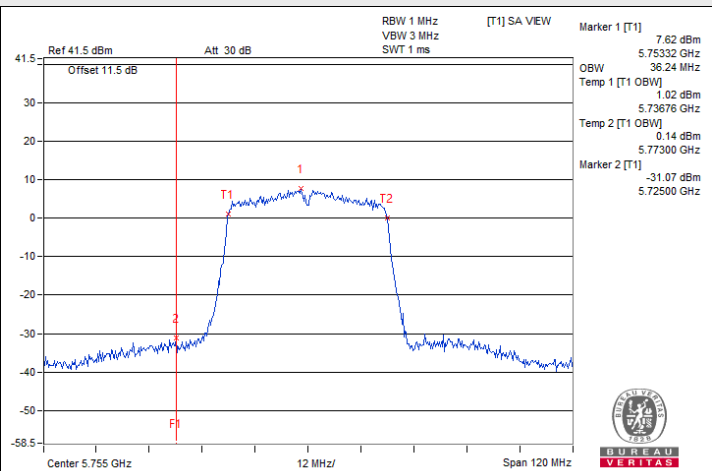


802.11n (HT20) / Chain 1 : CH 149

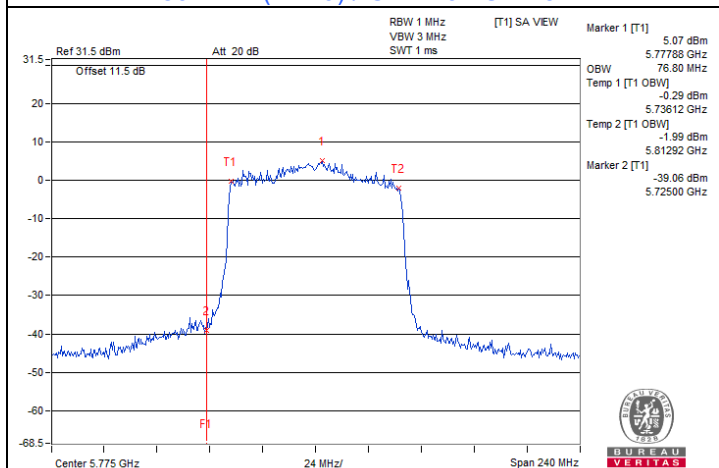
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



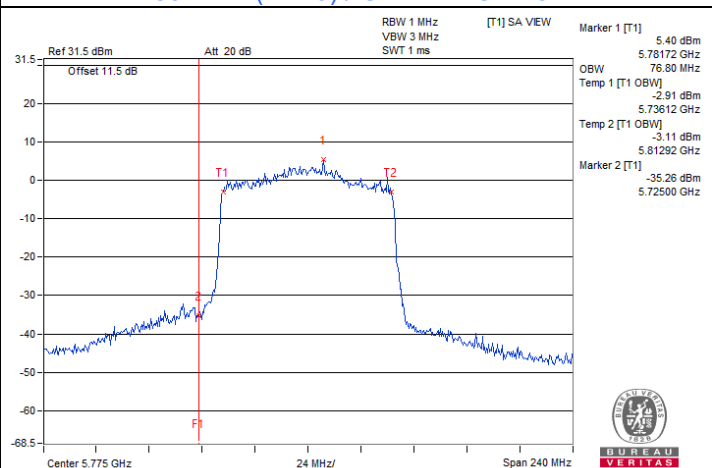
802.11n (HT40) / Chain 0 : CH 151



802.11n (HT40) / Chain 1 : CH 151



802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155

7.6 Frequency Stability

Input Power:	3.85 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Tim Chen/Chris Lin
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802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vdc)	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
55	3.85	5179.9901	Pass	5179.9917	Pass	5179.9921	Pass	5179.9924	Pass
50	3.85	5180.0023	Pass	5180.0038	Pass	5180.003	Pass	5180.0066	Pass
40	3.85	5180.0039	Pass	5180.0007	Pass	5180.0036	Pass	5180.004	Pass
30	3.85	5180.0191	Pass	5180.0211	Pass	5180.0225	Pass	5180.0212	Pass
20	3.85	5179.9891	Pass	5179.9861	Pass	5179.986	Pass	5179.9888	Pass
10	3.85	5179.9945	Pass	5179.9931	Pass	5179.9935	Pass	5179.9909	Pass
0	3.85	5180.0022	Pass	5180.0002	Pass	5180.0021	Pass	5180.0018	Pass
-10	3.85	5179.9786	Pass	5179.9811	Pass	5179.9803	Pass	5179.9799	Pass
-20	3.85	5180.0237	Pass	5180.0252	Pass	5180.0221	Pass	5180.0261	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vdc)	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	4.4	5179.9978	Pass	5179.9973	Pass	5180.0002	Pass	5180.0004	Pass
	3.85	5179.9891	Pass	5179.9861	Pass	5179.986	Pass	5179.9888	Pass
	3.4	5179.9919	Pass	5179.9872	Pass	5179.988	Pass	5179.9921	Pass

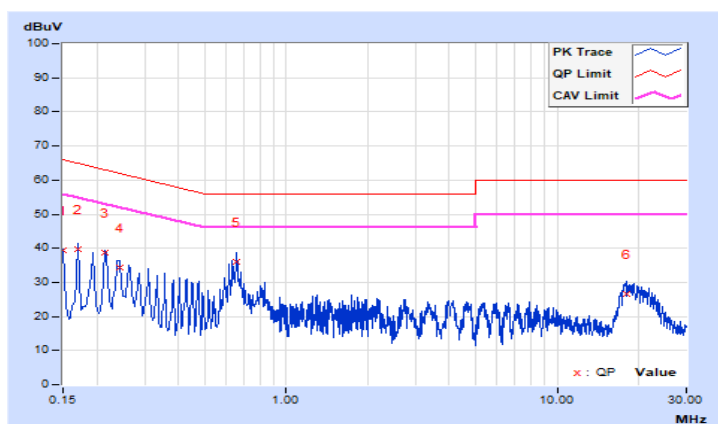
7.7 AC Power Conducted Emissions

RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	0.15000	9.68	29.77	15.95	39.45	25.63	66.00	56.00	-26.55	-30.37
2	0.17000	9.70	30.12	16.33	39.82	26.03	64.96	54.96	-25.14	-28.93
3	0.21400	9.73	29.04	15.63	38.77	25.36	63.05	53.05	-24.28	-27.69
4	0.24200	9.74	24.61	13.80	34.35	23.54	62.03	52.03	-27.68	-28.49
5	0.65800	9.84	26.07	18.83	35.91	28.67	56.00	46.00	-20.09	-17.33
6	17.93400	10.16	16.40	10.14	26.56	20.30	60.00	50.00	-33.44	-29.70

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

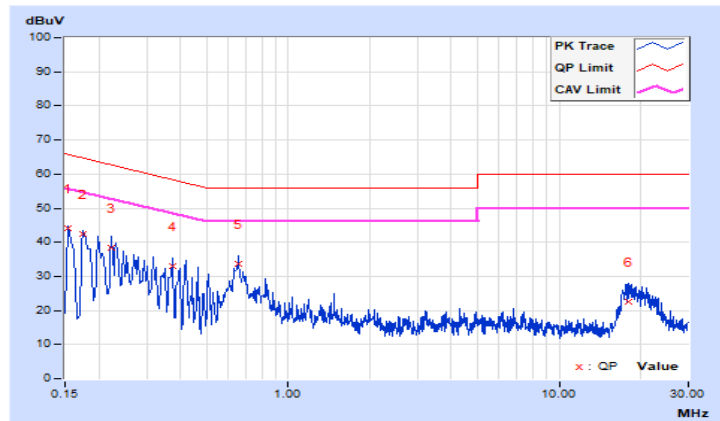


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	9.68	34.58	19.16	44.26	28.84	65.78	55.78	-21.52	-26.94
2	0.17400	9.70	32.67	18.16	42.37	27.86	64.77	54.77	-22.40	-26.91
3	0.22200	9.73	28.77	14.49	38.50	24.22	62.74	52.74	-24.24	-28.52
4	0.37400	9.78	23.08	9.25	32.86	19.03	58.41	48.41	-25.55	-29.38
5	0.65400	9.82	23.99	15.12	33.81	24.94	56.00	46.00	-22.19	-21.06
6	18.10600	10.16	12.39	5.20	22.55	15.36	60.00	50.00	-37.45	-34.64

Remarks:

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



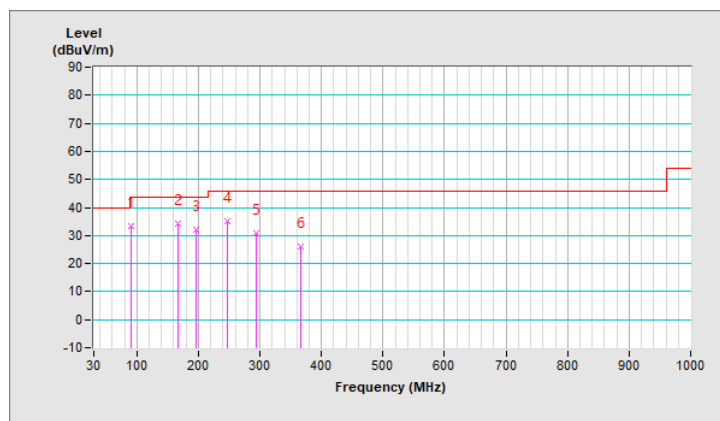
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	30 MHz ~1000 MHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20.6°C, 78.3% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	91.11	33.2 QP	43.5	-10.3	2.00 H	11	47.8	-14.6
2	167.74	34.4 QP	43.5	-9.1	1.01 H	252	43.3	-8.9
3	195.87	32.0 QP	43.5	-11.5	1.01 H	133	43.5	-11.5
4	246.31	34.9 QP	46.0	-11.1	1.01 H	134	43.9	-9.0
5	293.84	30.6 QP	46.0	-15.4	1.01 H	207	37.6	-7.0
6	365.62	26.1 QP	46.0	-19.9	1.01 H	134	31.6	-5.5

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 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.

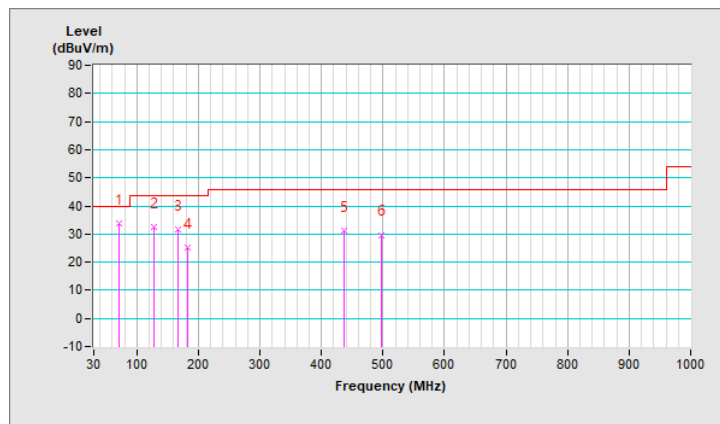


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	30 MHz ~1000 MHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20.6°C, 78.3% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	71.71	33.8 QP	40.0	-6.2	2.00 V	1	45.3	-11.5
2	127.97	32.6 QP	43.5	-10.9	1.51 V	286	42.9	-10.3
3	167.74	31.8 QP	43.5	-11.7	1.01 V	15	40.7	-8.9
4	183.26	25.0 QP	43.5	-18.5	1.01 V	334	35.4	-10.4
5	437.40	31.4 QP	46.0	-14.6	1.01 V	219	35.0	-3.6
6	496.57	29.7 QP	46.0	-16.3	1.51 V	235	32.3	-2.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The 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

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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.4 PK	74.0	-5.6	2.45 H	205	46.9	21.5
2	5150.00	52.9 AV	54.0	-1.1	2.45 H	205	31.4	21.5
3	*5180.00	108.8 PK			2.45 H	205	67.1	41.7
4	*5180.00	99.0 AV			2.45 H	205	57.3	41.7
5	#10360.00	63.4 PK	68.2	-4.8	2.55 H	196	38.6	24.8
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	65.1 PK	74.0	-8.9	3.09 V	63	43.6	21.5
2	5150.00	50.9 AV	54.0	-3.1	3.09 V	63	29.4	21.5
3	*5180.00	105.9 PK			3.09 V	63	64.2	41.7
4	*5180.00	95.7 AV			3.09 V	63	54.0	41.7
5	#10360.00	63.1 PK	68.2	-5.1	3.15 V	75	38.3	24.8

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 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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	107.8 PK			2.36 H	211	66.2	41.6
2	*5200.00	98.4 AV			2.36 H	211	56.8	41.6
3	#10400.00	63.7 PK	68.2	-4.5	2.50 H	204	38.7	25.0
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	*5200.00	104.4 PK			3.24 V	344	62.8	41.6
2	*5200.00	95.0 AV			3.24 V	344	53.4	41.6
3	#10400.00	63.4 PK	68.2	-4.8	3.15 V	294	38.4	25.0

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	802.11a	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	107.4 PK			2.26 H	202	66.0	41.4
2	*5240.00	97.9 AV			2.26 H	202	56.5	41.4
3	5350.00	61.3 PK	74.0	-12.7	2.26 H	202	39.8	21.5
4	5350.00	47.1 AV	54.0	-6.9	2.26 H	202	25.6	21.5
5	#10480.00	63.9 PK	68.2	-4.3	2.57 H	193	38.6	25.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	103.5 PK			3.06 V	342	62.1	41.4
2	*5240.00	94.0 AV			3.06 V	342	52.6	41.4
3	5350.00	60.4 PK	74.0	-13.6	3.06 V	342	38.9	21.5
4	5350.00	47.0 AV	54.0	-7.0	3.06 V	342	25.5	21.5
5	#10480.00	63.7 PK	68.2	-4.5	3.16 V	296	38.4	25.3

Remarks:

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

RF Mode	802.11n (HT20)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	65.5 PK	74.0	-8.5	2.45 H	205	44.0	21.5
2	5150.00	50.5 AV	54.0	-3.5	2.45 H	205	29.0	21.5
3	*5180.00	111.1 PK			2.45 H	205	69.4	41.7
4	*5180.00	98.3 AV			2.45 H	205	56.6	41.7
5	#10360.00	64.0 PK	68.2	-4.2	2.51 H	200	39.2	24.8

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.1 PK	74.0	-12.9	3.32 V	297	39.6	21.5
2	5150.00	47.9 AV	54.0	-6.1	3.32 V	297	26.4	21.5
3	*5180.00	106.4 PK			3.32 V	297	64.7	41.7
4	*5180.00	93.6 AV			3.32 V	297	51.9	41.7
5	#10360.00	63.4 PK	68.2	-4.8	3.17 V	290	38.6	24.8

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	802.11n (HT20)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	109.9 PK			2.43 H	205	68.3	41.6
2	*5200.00	97.8 AV			2.43 H	205	56.2	41.6
3	#10400.00	63.3 PK	68.2	-4.9	2.53 H	202	38.3	25.0
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	*5200.00	107.1 PK			3.26 V	341	65.5	41.6
2	*5200.00	94.4 AV			3.26 V	341	52.8	41.6
3	#10400.00	63.1 PK	68.2	-5.1	3.12 V	296	38.1	25.0

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	802.11n (HT20)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	109.5 PK			2.28 H	204	68.1	41.4
2	*5240.00	97.2 AV			2.28 H	204	55.8	41.4
3	5350.00	61.0 PK	74.0	-13.0	2.28 H	204	39.5	21.5
4	5350.00	47.5 AV	54.0	-6.5	2.28 H	204	26.0	21.5
5	#10480.00	63.8 PK	68.2	-4.4	2.46 H	210	38.5	25.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	106.8 PK			3.24 V	295	65.4	41.4
2	*5240.00	93.5 AV			3.24 V	295	52.1	41.4
3	5350.00	60.4 PK	74.0	-13.6	3.24 V	295	38.9	21.5
4	5350.00	47.4 AV	54.0	-6.6	3.24 V	295	25.9	21.5
5	#10480.00	63.5 PK	68.2	-4.7	3.10 V	286	38.2	25.3

Remarks:

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

RF Mode	802.11n (HT40)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	2.43 H	204	44.5	21.5
2	5150.00	53.0 AV	54.0	-1.0	2.43 H	204	31.5	21.5
3	*5190.00	106.4 PK			2.43 H	204	64.8	41.6
4	*5190.00	96.6 AV			2.43 H	204	55.0	41.6
5	#10380.00	63.7 PK	68.2	-4.5	2.55 H	198	38.8	24.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.9 PK	74.0	-12.1	3.26 V	341	40.4	21.5
2	5150.00	48.9 AV	54.0	-5.1	3.26 V	341	27.4	21.5
3	*5190.00	102.1 PK			3.26 V	341	60.5	41.6
4	*5190.00	90.9 AV			3.26 V	341	49.3	41.6
5	#10380.00	63.4 PK	68.2	-4.8	3.11 V	288	38.5	24.9

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	802.11n (HT40)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	106.9 PK			2.28 H	207	65.5	41.4
2	*5230.00	94.2 AV			2.28 H	207	52.8	41.4
3	5350.00	61.2 PK	74.0	-12.8	2.28 H	207	39.7	21.5
4	5350.00	47.7 AV	54.0	-6.3	2.28 H	207	26.2	21.5
5	#10460.00	63.8 PK	68.2	-4.4	2.47 H	201	38.5	25.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	102.2 PK			3.08 V	303	60.8	41.4
2	*5230.00	90.1 AV			3.08 V	303	48.7	41.4
3	5350.00	61.0 PK	74.0	-13.0	3.08 V	303	39.5	21.5
4	5350.00	47.5 AV	54.0	-6.5	3.08 V	303	26.0	21.5
5	#10460.00	63.6 PK	68.2	-4.6	3.15 V	292	38.3	25.3

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.9 PK	74.0	-11.1	2.56 H	199	41.4	21.5
2	5150.00	48.5 AV	54.0	-5.5	2.56 H	199	27.0	21.5
3	*5210.00	101.8 PK			2.56 H	199	60.3	41.5
4	*5210.00	89.2 AV			2.56 H	199	47.7	41.5
5	#10420.00	63.7 PK	68.2	-4.5	2.48 H	204	38.7	25.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.5 PK	74.0	-12.5	3.10 V	297	40.0	21.5
2	5150.00	47.5 AV	54.0	-6.5	3.10 V	297	26.0	21.5
3	*5210.00	98.6 PK			3.10 V	297	57.1	41.5
4	*5210.00	85.7 AV			3.10 V	297	44.2	41.5
5	#10420.00	63.5 PK	68.2	-4.7	3.18 V	276	38.5	25.0

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	802.11a	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	61.0 PK	74.0	-13.0	2.43 H	208	39.5	21.5
2	5150.00	48.5 AV	54.0	-5.5	2.43 H	208	27.0	21.5
3	*5260.00	107.4 PK			2.43 H	208	66.1	41.3
4	*5260.00	98.1 AV			2.43 H	208	56.8	41.3
5	#10520.00	64.6 PK	68.2	-3.6	2.68 H	185	39.2	25.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.7 PK	74.0	-13.3	2.88 V	82	39.2	21.5
2	5150.00	47.8 AV	54.0	-6.2	2.88 V	82	26.3	21.5
3	*5260.00	105.5 PK			2.88 V	82	64.2	41.3
4	*5260.00	95.4 AV			2.88 V	82	54.1	41.3
5	#10520.00	64.2 PK	68.2	-4.0	3.23 V	97	38.8	25.4

Remarks:

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



RF Mode	802.11a	Channel	CH 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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	106.8 PK			2.33 H	204	65.6	41.2
2	*5300.00	97.5 AV			2.33 H	204	56.3	41.2
3	10600.00	64.3 PK	74.0	-9.7	2.57 H	188	38.8	25.5
4	10600.00	49.1 AV	54.0	-4.9	2.57 H	188	23.6	25.5

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	*5300.00	104.8 PK			3.12 V	65	63.6	41.2
2	*5300.00	94.8 AV			3.12 V	65	53.6	41.2
3	10600.00	64.1 PK	74.0	-9.9	2.99 V	78	38.6	25.5
4	10600.00	48.8 AV	54.0	-5.2	2.99 V	78	23.3	25.5

Remarks:

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

RF Mode	802.11a	Channel	CH 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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	106.6 PK			2.32 H	206	65.3	41.3
2	*5320.00	97.4 AV			2.32 H	206	56.1	41.3
3	5350.00	63.0 PK	74.0	-11.0	2.32 H	206	41.5	21.5
4	5350.00	50.1 AV	54.0	-3.9	2.32 H	206	28.6	21.5
5	10640.00	64.5 PK	74.0	-9.5	2.52 H	182	38.6	25.9
6	10640.00	49.5 AV	54.0	-4.5	2.52 H	182	23.6	25.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	104.0 PK			3.16 V	62	62.7	41.3
2	*5320.00	94.6 AV			3.16 V	62	53.3	41.3
3	5350.00	62.8 PK	74.0	-11.2	3.16 V	62	41.3	21.5
4	5350.00	48.7 AV	54.0	-5.3	3.16 V	62	27.2	21.5
5	10640.00	64.4 PK	74.0	-9.6	3.18 V	79	38.5	25.9
6	10640.00	49.2 AV	54.0	-4.8	3.18 V	79	23.3	25.9

Remarks:

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



RF Mode	802.11n (HT20)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.6 PK	74.0	-13.4	2.30 H	211	39.1	21.5
2	5150.00	47.3 AV	54.0	-6.7	2.30 H	211	25.8	21.5
3	*5260.00	106.4 PK			2.30 H	211	65.1	41.3
4	*5260.00	96.5 AV			2.30 H	211	55.2	41.3
5	#10520.00	64.2 PK	68.2	-4.0	2.61 H	186	38.8	25.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.3 PK	74.0	-13.7	2.93 V	87	38.8	21.5
2	5150.00	47.1 AV	54.0	-6.9	2.93 V	87	25.6	21.5
3	*5260.00	103.8 PK			2.93 V	87	62.5	41.3
4	*5260.00	93.7 AV			2.93 V	87	52.4	41.3
5	#10520.00	63.9 PK	68.2	-4.3	3.19 V	100	38.5	25.4

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	802.11n (HT20)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	106.2 PK			2.13 H	205	65.0	41.2
2	*5300.00	96.5 AV			2.13 H	205	55.3	41.2
3	10600.00	64.4 PK	74.0	-9.6	2.52 H	188	38.9	25.5
4	10600.00	49.3 AV	54.0	-4.7	2.52 H	188	23.8	25.5

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	*5300.00	104.1 PK			2.91 V	87	62.9	41.2
2	*5300.00	93.9 AV			2.91 V	87	52.7	41.2
3	10600.00	64.1 PK	74.0	-9.9	3.19 V	96	38.6	25.5
4	10600.00	49.1 AV	54.0	-4.9	3.19 V	96	23.6	25.5

Remarks:

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



RF Mode	802.11n (HT20)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	106.3 PK			2.44 H	204	65.0	41.3
2	*5320.00	96.7 AV			2.44 H	204	55.4	41.3
3	5350.00	61.0 PK	74.0	-13.0	2.44 H	204	39.5	21.5
4	5350.00	47.7 AV	54.0	-6.3	2.44 H	204	26.2	21.5
5	10640.00	64.6 PK	74.0	-9.4	2.61 H	190	38.7	25.9
6	10640.00	49.4 AV	54.0	-4.6	2.61 H	190	23.5	25.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	103.5 PK			2.80 V	80	62.2	41.3
2	*5320.00	93.9 AV			2.80 V	80	52.6	41.3
3	5350.00	60.8 PK	74.0	-13.2	2.80 V	80	39.3	21.5
4	5350.00	47.6 AV	54.0	-6.4	2.80 V	80	26.1	21.5
5	10640.00	64.3 PK	74.0	-9.7	3.30 V	92	38.4	25.9
6	10640.00	49.1 AV	54.0	-4.9	3.30 V	92	23.2	25.9

Remarks:

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

RF Mode	802.11n (HT40)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.7 PK	74.0	-13.3	2.34 H	210	39.2	21.5
2	5150.00	47.5 AV	54.0	-6.5	2.34 H	210	26.0	21.5
3	*5270.00	103.2 PK			2.34 H	210	61.9	41.3
4	*5270.00	93.6 AV			2.34 H	210	52.3	41.3
5	#10540.00	64.1 PK	68.2	-4.1	2.52 H	193	38.5	25.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.5 PK	74.0	-13.5	2.93 V	86	39.0	21.5
2	5150.00	47.3 AV	54.0	-6.7	2.93 V	86	25.8	21.5
3	*5270.00	100.0 PK			2.93 V	86	58.7	41.3
4	*5270.00	90.7 AV			2.93 V	86	49.4	41.3
5	#10540.00	64.0 PK	68.2	-4.2	3.09 V	103	38.4	25.6

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	802.11n (HT40)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	103.0 PK			2.11 H	206	61.8	41.2
2	*5310.00	93.7 AV			2.11 H	206	52.5	41.2
3	5350.00	61.8 PK	74.0	-12.2	2.11 H	206	40.3	21.5
4	5350.00	49.9 AV	54.0	-4.1	2.11 H	206	28.4	21.5
5	10620.00	64.3 PK	74.0	-9.7	2.58 H	187	38.6	25.7
6	10620.00	49.2 AV	54.0	-4.8	2.58 H	187	23.5	25.7

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	*5310.00	100.5 PK			2.86 V	88	59.3	41.2
2	*5310.00	90.9 AV			2.86 V	88	49.7	41.2
3	5350.00	61.7 PK	74.0	-12.3	2.86 V	88	40.2	21.5
4	5350.00	49.6 AV	54.0	-4.4	2.86 V	88	28.1	21.5
5	10620.00	64.2 PK	74.0	-9.8	3.18 V	99	38.5	25.7
6	10620.00	49.0 AV	54.0	-5.0	3.18 V	99	23.3	25.7

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 (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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	101.8 PK			2.34 H	203	60.6	41.2
2	*5290.00	89.0 AV			2.34 H	203	47.8	41.2
3	5350.00	62.7 PK	74.0	-11.3	2.34 H	203	41.2	21.5
4	5350.00	49.6 AV	54.0	-4.4	2.34 H	203	28.1	21.5
5	#10580.00	63.9 PK	68.2	-4.3	2.59 H	193	38.4	25.5

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	*5290.00	99.4 PK			2.82 V	87	58.2	41.2
2	*5290.00	86.5 AV			2.82 V	87	45.3	41.2
3	5350.00	62.0 PK	74.0	-12.0	2.82 V	87	40.5	21.5
4	5350.00	49.5 AV	54.0	-4.5	2.82 V	87	28.0	21.5
5	#10580.00	63.6 PK	68.2	-4.6	3.07 V	95	38.1	25.5

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 (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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5109.00	62.4 PK	74.0	-11.6	2.34 H	212	40.9	21.5
2	5109.00	50.3 AV	54.0	-3.7	2.34 H	212	28.8	21.5
3	5150.00	63.5 PK	74.0	-10.5	2.34 H	212	42.0	21.5
4	5150.00	49.9 AV	54.0	-4.1	2.34 H	212	28.4	21.5
5	*5250.00	97.7 PK			2.34 H	212	56.4	41.3
6	*5250.00	84.9 AV			2.34 H	212	43.6	41.3
7	5350.00	61.9 PK	74.0	-12.1	2.34 H	212	40.4	21.5
8	5350.00	49.7 AV	54.0	-4.3	2.34 H	212	28.2	21.5
9	#10500.00	63.7 PK	68.2	-4.5	2.68 H	189	38.3	25.4

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	5109.00	61.4 PK	74.0	-12.6	2.90 V	89	39.9	21.5
2	5109.00	48.7 AV	54.0	-5.3	2.90 V	89	27.2	21.5
3	5150.00	62.4 PK	74.0	-11.6	2.90 V	89	40.9	21.5
4	5150.00	48.7 AV	54.0	-5.3	2.90 V	89	27.2	21.5
5	*5250.00	95.3 PK			2.90 V	89	54.0	41.3
6	*5250.00	82.2 AV			2.90 V	89	40.9	41.3
7	5350.00	61.2 PK	74.0	-12.8	2.90 V	89	39.7	21.5
8	5350.00	49.1 AV	54.0	-4.9	2.90 V	89	27.6	21.5
9	#10500.00	63.4 PK	68.2	-4.8	3.09 V	104	38.0	25.4

Remarks:

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

RF Mode	802.11a	Channel	CH 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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.9 PK	74.0	-12.1	2.34 H	155	39.8	22.1
2	5460.00	48.3 AV	54.0	-5.7	2.34 H	155	26.2	22.1
3	#5470.00	62.2 PK	68.2	-6.0	2.34 H	155	40.1	22.1
4	*5500.00	107.3 PK			2.34 H	155	65.3	42.0
5	*5500.00	98.1 AV			2.34 H	155	56.1	42.0
6	11000.00	64.2 PK	74.0	-9.8	2.72 H	180	37.7	26.5
7	11000.00	49.3 AV	54.0	-4.7	2.72 H	180	22.8	26.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.7 PK	74.0	-12.3	2.66 V	105	39.6	22.1
2	5460.00	48.2 AV	54.0	-5.8	2.66 V	105	26.1	22.1
3	#5470.00	62.1 PK	68.2	-6.1	2.66 V	105	40.0	22.1
4	*5500.00	104.8 PK			2.66 V	105	62.8	42.0
5	*5500.00	95.2 AV			2.66 V	105	53.2	42.0
6	11000.00	64.0 PK	74.0	-10.0	3.21 V	120	37.5	26.5
7	11000.00	49.0 AV	54.0	-5.0	3.21 V	120	22.5	26.5

Remarks:

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



RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	108.8 PK			2.45 H	159	66.7	42.1
2	*5580.00	99.4 AV			2.45 H	159	57.3	42.1
3	11160.00	64.4 PK	74.0	-9.6	2.79 H	193	37.9	26.5
4	11160.00	49.5 AV	54.0	-4.5	2.79 H	193	23.0	26.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	106.1 PK			2.61 V	101	64.0	42.1
2	*5580.00	96.4 AV			2.61 V	101	54.3	42.1
3	11160.00	64.1 PK	74.0	-9.9	3.18 V	119	37.6	26.5
4	11160.00	49.2 AV	54.0	-4.8	3.18 V	119	22.7	26.5

Remarks:

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

RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	111.9 PK			2.45 H	156	69.7	42.2
2	*5700.00	102.6 AV			2.45 H	156	60.4	42.2
3	#5725.00	66.9 PK	68.2	-1.3	2.45 H	156	44.3	22.6
4	11400.00	65.5 PK	74.0	-8.5	2.82 H	187	37.6	27.9
5	11400.00	50.2 AV	54.0	-3.8	2.82 H	187	22.3	27.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	109.1 PK			2.59 V	107	66.9	42.2
2	*5700.00	99.5 AV			2.59 V	107	57.3	42.2
3	#5725.00	64.1 PK	68.2	-4.1	2.59 V	107	41.5	22.6
4	11400.00	65.3 PK	74.0	-8.7	3.11 V	126	37.4	27.9
5	11400.00	49.9 AV	54.0	-4.1	3.11 V	126	22.0	27.9

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 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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	61.8 PK	68.2	-6.4	2.43 H	156	39.7	22.1
2	*5720.00	112.7 PK			2.43 H	156	70.3	42.4
3	*5720.00	103.4 AV			2.43 H	156	61.0	42.4
4	#5850.00	62.9 PK	68.2	-5.3	2.43 H	156	39.8	23.1
5	11440.00	65.4 PK	74.0	-8.6	2.90 H	182	37.5	27.9
6	11440.00	50.1 AV	54.0	-3.9	2.90 H	182	22.2	27.9

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	#5470.00	61.5 PK	68.2	-6.7	2.61 V	100	39.4	22.1
2	*5720.00	110.6 PK			2.61 V	100	68.2	42.4
3	*5720.00	100.4 AV			2.61 V	100	58.0	42.4
4	#5850.00	62.6 PK	68.2	-5.6	2.61 V	100	39.5	23.1
5	11440.00	65.2 PK	74.0	-8.8	3.15 V	127	37.3	27.9
6	11440.00	49.9 AV	54.0	-4.1	3.15 V	127	22.0	27.9

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	802.11n (HT20)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.3 PK	74.0	-12.7	2.47 H	163	39.2	22.1
2	5460.00	47.9 AV	54.0	-6.1	2.47 H	163	25.8	22.1
3	#5470.00	62.1 PK	68.2	-6.1	2.47 H	163	40.0	22.1
4	*5500.00	106.3 PK			2.47 H	163	64.3	42.0
5	*5500.00	96.2 AV			2.47 H	163	54.2	42.0
6	11000.00	64.0 PK	74.0	-10.0	2.69 H	185	37.5	26.5
7	11000.00	49.1 AV	54.0	-4.9	2.69 H	185	22.6	26.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.1 PK	74.0	-12.9	2.57 V	103	39.0	22.1
2	5460.00	47.7 AV	54.0	-6.3	2.57 V	103	25.6	22.1
3	#5470.00	61.9 PK	68.2	-6.3	2.57 V	103	39.8	22.1
4	*5500.00	103.2 PK			2.57 V	103	61.2	42.0
5	*5500.00	93.2 AV			2.57 V	103	51.2	42.0
6	11000.00	63.9 PK	74.0	-10.1	3.25 V	122	37.4	26.5
7	11000.00	48.8 AV	54.0	-5.2	3.25 V	122	22.3	26.5

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	802.11n (HT20)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	108.2 PK			2.42 H	158	66.1	42.1
2	*5580.00	98.4 AV			2.42 H	158	56.3	42.1
3	11160.00	64.1 PK	74.0	-9.9	2.59 H	191	37.6	26.5
4	11160.00	49.2 AV	54.0	-4.8	2.59 H	191	22.7	26.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	106.1 PK			2.61 V	99	64.0	42.1
2	*5580.00	95.2 AV			2.61 V	99	53.1	42.1
3	11160.00	64.0 PK	74.0	-10.0	3.16 V	125	37.5	26.5
4	11160.00	49.0 AV	54.0	-5.0	3.16 V	125	22.5	26.5

Remarks:

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



RF Mode	802.11n (HT20)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	111.5 PK			2.23 H	159	69.3	42.2
2	*5700.00	101.2 AV			2.23 H	159	59.0	42.2
3	#5725.00	63.3 PK	68.2	-4.9	2.23 H	159	40.7	22.6
4	11400.00	65.4 PK	74.0	-8.6	2.67 H	184	37.5	27.9
5	11400.00	50.0 AV	54.0	-4.0	2.67 H	184	22.1	27.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	108.9 PK			2.56 V	104	66.7	42.2
2	*5700.00	98.4 AV			2.56 V	104	56.2	42.2
3	#5725.00	63.1 PK	68.2	-5.1	2.56 V	104	40.5	22.6
4	11400.00	65.2 PK	74.0	-8.8	3.07 V	118	37.3	27.9
5	11400.00	49.9 AV	54.0	-4.1	3.07 V	118	22.0	27.9

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	802.11n (HT20)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	61.4 PK	68.2	-6.8	2.43 H	158	39.3	22.1
2	*5720.00	112.7 PK			2.43 H	158	70.3	42.4
3	*5720.00	102.5 AV			2.43 H	158	60.1	42.4
4	#5850.00	62.0 PK	68.2	-6.2	2.43 H	158	38.9	23.1
5	11440.00	65.5 PK	74.0	-8.5	2.58 H	187	37.6	27.9
6	11440.00	50.1 AV	54.0	-3.9	2.58 H	187	22.2	27.9

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	#5470.00	61.2 PK	68.2	-7.0	2.63 V	100	39.1	22.1
2	*5720.00	109.3 PK			2.63 V	100	66.9	42.4
3	*5720.00	99.4 AV			2.63 V	100	57.0	42.4
4	#5850.00	61.7 PK	68.2	-6.5	2.63 V	100	38.6	23.1
5	11440.00	65.3 PK	74.0	-8.7	3.25 V	119	37.4	27.9
6	11440.00	49.9 AV	54.0	-4.1	3.25 V	119	22.0	27.9

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	802.11n (HT40)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.2 PK	74.0	-11.8	2.46 H	162	40.1	22.1
2	5460.00	48.7 AV	54.0	-5.3	2.46 H	162	26.6	22.1
3	#5470.00	63.8 PK	68.2	-4.4	2.46 H	162	41.7	22.1
4	*5510.00	104.3 PK			2.46 H	162	62.3	42.0
5	*5510.00	94.5 AV			2.46 H	162	52.5	42.0
6	11020.00	64.1 PK	74.0	-9.9	2.52 H	186	37.5	26.6
7	11020.00	48.9 AV	54.0	-5.1	2.52 H	186	22.3	26.6

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	2.69 V	96	40.0	22.1
2	5460.00	48.5 AV	54.0	-5.5	2.69 V	96	26.4	22.1
3	#5470.00	63.6 PK	68.2	-4.6	2.67 V	96	41.5	22.1
4	*5510.00	102.1 PK			2.67 V	96	60.1	42.0
5	*5510.00	91.7 AV			2.67 V	96	49.7	42.0
6	11020.00	63.9 PK	74.0	-10.1	3.09 V	122	37.3	26.6
7	11020.00	48.8 AV	54.0	-5.2	3.09 V	122	22.2	26.6

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	802.11n (HT40)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	104.6 PK			2.55 H	161	62.5	42.1
2	*5550.00	94.8 AV			2.55 H	161	52.7	42.1
3	11100.00	64.2 PK	74.0	-9.8	2.61 H	193	37.6	26.6
4	11100.00	49.1 AV	54.0	-4.9	2.61 H	193	22.5	26.6
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	*5550.00	102.3 PK			2.52 V	97	60.2	42.1
2	*5550.00	91.9 AV			2.52 V	97	49.8	42.1
3	11100.00	63.9 PK	74.0	-10.1	3.08 V	120	37.3	26.6
4	11100.00	48.8 AV	54.0	-5.2	3.08 V	120	22.2	26.6

Remarks:

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

RF Mode	802.11n (HT40)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	107.8 PK			2.50 H	153	65.6	42.2
2	*5670.00	98.4 AV			2.50 H	153	56.2	42.2
3	#5725.00	63.1 PK	68.2	-5.1	2.50 H	153	40.5	22.6
4	11340.00	64.9 PK	74.0	-9.1	2.63 H	187	37.8	27.1
5	11340.00	49.7 AV	54.0	-4.3	2.63 H	187	22.6	27.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	105.4 PK			2.52 V	95	63.2	42.2
2	*5670.00	95.2 AV			2.52 V	95	53.0	42.2
3	#5725.00	62.9 PK	68.2	-5.3	2.52 V	95	40.3	22.6
4	11340.00	64.6 PK	74.0	-9.4	3.17 V	122	37.5	27.1
5	11340.00	49.5 AV	54.0	-4.5	3.17 V	122	22.4	27.1

Remarks:

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



RF Mode	802.11n (HT40)	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	61.5 PK	68.2	-6.7	2.44 H	158	39.4	22.1
2	*5710.00	108.0 PK			2.44 H	158	65.7	42.3
3	*5710.00	98.6 AV			2.44 H	158	56.3	42.3
4	#5850.00	62.8 PK	68.2	-5.4	2.44 H	158	39.7	23.1
5	11420.00	65.7 PK	74.0	-8.3	2.63 H	193	37.8	27.9
6	11420.00	50.5 AV	54.0	-3.5	2.63 H	193	22.6	27.9

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	#5470.00	61.3 PK	68.2	-6.9	2.52 V	95	39.2	22.1
2	*5710.00	105.8 PK			2.52 V	95	63.5	42.3
3	*5710.00	95.6 AV			2.52 V	95	53.3	42.3
4	#5850.00	62.6 PK	68.2	-5.6	2.52 V	95	39.5	23.1
5	11420.00	65.5 PK	74.0	-8.5	3.13 V	126	37.6	27.9
6	11420.00	50.3 AV	54.0	-3.7	3.13 V	126	22.4	27.9

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 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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	62.5 PK	74.0	-11.5	2.36 H	157	40.4	22.1
2	5460.00	49.2 AV	54.0	-4.8	2.36 H	157	27.1	22.1
3	#5470.00	62.9 PK	68.2	-5.3	2.36 H	157	40.8	22.1
4	*5530.00	102.2 PK			2.36 H	157	60.2	42.0
5	*5530.00	89.8 AV			2.36 H	157	47.8	42.0
6	11060.00	64.1 PK	74.0	-9.9	2.59 H	193	37.5	26.6
7	11060.00	49.0 AV	54.0	-5.0	2.59 H	193	22.4	26.6

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	62.3 PK	74.0	-11.7	2.67 V	104	40.2	22.1
2	5460.00	48.8 AV	54.0	-5.2	2.67 V	104	26.7	22.1
3	#5470.00	62.5 PK	68.2	-5.7	2.67 V	104	40.4	22.1
4	*5530.00	98.7 PK			2.67 V	104	56.7	42.0
5	*5530.00	86.7 AV			2.67 V	104	44.7	42.0
6	11060.00	63.9 PK	74.0	-10.1	3.03 V	123	37.3	26.6
7	11060.00	48.7 AV	54.0	-5.3	3.03 V	123	22.1	26.6

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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	103.7 PK			2.28 H	158	61.6	42.1
2	*5610.00	91.5 AV			2.28 H	158	49.4	42.1
3	#5725.00	63.4 PK	68.2	-4.8	2.28 H	158	40.8	22.6
4	11220.00	64.3 PK	74.0	-9.7	2.66 H	187	37.6	26.7
5	11220.00	49.2 AV	54.0	-4.8	2.66 H	187	22.5	26.7

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	*5610.00	101.1 PK			2.55 V	98	59.0	42.1
2	*5610.00	88.5 AV			2.55 V	98	46.4	42.1
3	#5725.00	63.1 PK	68.2	-5.1	2.55 V	98	40.5	22.6
4	11220.00	64.0 PK	74.0	-10.0	3.08 V	118	37.3	26.7
5	11220.00	49.0 AV	54.0	-5.0	3.08 V	118	22.3	26.7

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (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	62.1 PK	68.2	-6.1	2.35 H	151	40.0	22.1
2	*5690.00	105.6 PK			2.35 H	151	63.4	42.2
3	*5690.00	93.2 AV			2.35 H	151	51.0	42.2
4	#5850.00	62.9 PK	68.2	-5.3	2.35 H	151	39.8	23.1
5	11380.00	65.2 PK	74.0	-8.8	2.58 H	193	37.5	27.7
6	11380.00	49.9 AV	54.0	-4.1	2.58 H	193	22.2	27.7

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	#5470.00	61.9 PK	68.2	-6.3	2.63 V	94	39.8	22.1
2	*5690.00	103.5 PK			2.63 V	94	61.3	42.2
3	*5690.00	90.4 AV			2.63 V	94	48.2	42.2
4	#5850.00	62.7 PK	68.2	-5.5	2.63 V	94	39.6	23.1
5	11380.00	65.1 PK	74.0	-8.9	3.09 V	116	37.4	27.7
6	11380.00	49.7 AV	54.0	-4.3	3.09 V	116	22.0	27.7

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 (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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	64.5 PK	74.0	-9.5	2.45 H	155	42.4	22.1
2	5460.00	51.5 AV	54.0	-2.5	2.45 H	155	29.4	22.1
3	#5470.00	62.6 PK	68.2	-5.6	2.45 H	155	40.5	22.1
4	*5570.00	100.2 PK			2.45 H	155	58.1	42.1
5	*5570.00	87.2 AV			2.45 H	155	45.1	42.1
6	#5725.00	64.5 PK	68.2	-3.7	2.45 H	155	41.9	22.6
7	11140.00	64.3 PK	74.0	-9.7	2.67 H	195	37.6	26.7
8	11140.00	49.2 AV	54.0	-4.8	2.67 H	195	22.5	26.7

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.1 PK	74.0	-10.9	2.52 V	102	41.0	22.1
2	5460.00	50.1 AV	54.0	-3.9	2.52 V	102	28.0	22.1
3	#5470.00	62.0 PK	68.2	-6.2	2.52 V	102	39.9	22.1
4	*5570.00	97.2 PK			2.52 V	102	55.1	42.1
5	*5570.00	84.3 AV			2.52 V	102	42.2	42.1
6	#5725.00	64.0 PK	68.2	-4.2	2.52 V	102	41.4	22.6
7	11140.00	64.0 PK	74.0	-10.0	3.05 V	126	37.3	26.7
8	11140.00	49.1 AV	54.0	-4.9	3.05 V	126	22.4	26.7

Remarks:

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

RF Mode	802.11a	Channel	CH 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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.60	60.6 PK	68.2	-7.6	2.36 H	148	38.2	22.4
2	*5745.00	112.4 PK			2.36 H	148	69.9	42.5
3	*5745.00	102.5 AV			2.36 H	148	60.0	42.5
4	#5949.60	61.7 PK	68.2	-6.5	2.36 H	148	38.6	23.1
5	11490.00	66.3 PK	74.0	-7.7	2.66 H	198	38.5	27.8
6	11490.00	50.3 AV	54.0	-3.7	2.66 H	198	22.5	27.8

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	#5618.40	60.9 PK	68.2	-7.3	2.43 V	184	38.5	22.4
2	*5745.00	106.2 PK			2.43 V	184	63.7	42.5
3	*5745.00	96.5 AV			2.43 V	184	54.0	42.5
4	#5926.80	60.8 PK	68.2	-7.4	2.43 V	184	37.7	23.1
5	11490.00	66.1 PK	74.0	-7.9	3.22 V	124	38.3	27.8
6	11490.00	49.9 AV	54.0	-4.1	3.22 V	124	22.1	27.8

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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.00	61.6 PK	68.2	-6.6	2.41 H	155	39.2	22.4
2	*5785.00	113.4 PK			2.41 H	155	70.6	42.8
3	*5785.00	103.9 AV			2.41 H	155	61.1	42.8
4	#5962.40	62.0 PK	68.2	-6.2	2.41 H	155	38.7	23.3
5	11570.00	66.4 PK	74.0	-7.6	2.69 H	192	38.4	28.0
6	11570.00	50.3 AV	54.0	-3.7	2.69 H	192	22.3	28.0

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	#5630.80	60.5 PK	68.2	-7.7	2.85 V	257	38.1	22.4
2	*5785.00	106.1 PK			2.85 V	257	63.3	42.8
3	*5785.00	95.9 AV			2.85 V	257	53.1	42.8
4	#5948.40	61.6 PK	68.2	-6.6	2.85 V	257	38.5	23.1
5	11570.00	65.3 PK	74.0	-8.7	3.18 V	129	37.3	28.0
6	11570.00	49.3 AV	54.0	-4.7	3.18 V	129	21.3	28.0

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	802.11a	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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.40	61.3 PK	68.2	-6.9	2.45 H	151	38.9	22.4
2	*5825.00	112.8 PK			2.45 H	151	69.9	42.9
3	*5825.00	103.4 AV			2.45 H	151	60.5	42.9
4	#5965.20	60.9 PK	68.2	-7.3	2.45 H	151	37.6	23.3
5	11650.00	65.7 PK	74.0	-8.3	2.72 H	190	38.4	27.3
6	11650.00	49.7 AV	54.0	-4.3	2.72 H	190	22.4	27.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5603.60	60.3 PK	68.2	-7.9	2.47 V	267	38.0	22.3
2	*5825.00	107.2 PK			2.47 V	267	64.3	42.9
3	*5825.00	96.9 AV			2.47 V	267	54.0	42.9
4	#5980.80	61.4 PK	68.2	-6.8	2.47 V	267	38.1	23.3
5	11650.00	65.5 PK	74.0	-8.5	3.22 V	133	38.2	27.3
6	11650.00	49.4 AV	54.0	-4.6	3.22 V	133	22.1	27.3

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5635.20	60.5 PK	68.2	-7.7	2.44 H	153	38.1	22.4
2	*5745.00	112.0 PK			2.44 H	153	69.5	42.5
3	*5745.00	102.0 AV			2.44 H	153	59.5	42.5
4	#5976.00	60.4 PK	68.2	-7.8	2.44 H	153	37.1	23.3
5	11490.00	66.4 PK	74.0	-7.6	2.65 H	196	38.6	27.8
6	11490.00	50.3 AV	54.0	-3.7	2.65 H	196	22.5	27.8

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5614.40	60.8 PK	68.2	-7.4	2.35 V	266	38.4	22.4
2	*5745.00	104.1 PK			2.35 V	266	61.6	42.5
3	*5745.00	94.1 AV			2.35 V	266	51.6	42.5
4	#5957.20	61.5 PK	68.2	-6.7	2.35 V	266	38.2	23.3
5	11490.00	66.1 PK	74.0	-7.9	3.32 V	126	38.3	27.8
6	11490.00	50.1 AV	54.0	-3.9	3.32 V	126	22.3	27.8

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5628.40	60.8 PK	68.2	-7.4	2.42 H	153	38.4	22.4
2	*5785.00	111.7 PK			2.42 H	153	68.9	42.8
3	*5785.00	102.2 AV			2.42 H	153	59.4	42.8
4	#5956.00	61.6 PK	68.2	-6.6	2.42 H	153	38.4	23.2
5	11570.00	66.6 PK	74.0	-7.4	2.64 H	193	38.6	28.0
6	11570.00	50.2 AV	54.0	-3.8	2.64 H	193	22.2	28.0

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	#5605.60	60.5 PK	68.2	-7.7	2.34 V	266	38.2	22.3
2	*5785.00	105.6 PK			2.34 V	266	62.8	42.8
3	*5785.00	94.8 AV			2.34 V	266	52.0	42.8
4	#5959.60	61.2 PK	68.2	-7.0	2.34 V	266	37.9	23.3
5	11570.00	66.3 PK	74.0	-7.7	3.22 V	120	38.3	28.0
6	11570.00	50.0 AV	54.0	-4.0	3.22 V	120	22.0	28.0

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5616.80	60.7 PK	68.2	-7.5	2.39 H	152	38.3	22.4
2	*5825.00	111.8 PK			2.39 H	152	68.9	42.9
3	*5825.00	101.3 AV			2.39 H	152	58.4	42.9
4	#5966.80	61.9 PK	68.2	-6.3	2.39 H	152	38.6	23.3
5	11650.00	66.0 PK	74.0	-8.0	2.65 H	189	38.7	27.3
6	11650.00	49.9 AV	54.0	-4.1	2.65 H	189	22.6	27.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.00	60.6 PK	68.2	-7.6	2.23 V	279	38.2	22.4
2	*5825.00	104.5 PK			2.24 V	279	61.6	42.9
3	*5825.00	94.7 AV			2.24 V	279	51.8	42.9
4	#5936.80	60.8 PK	68.2	-7.4	2.23 V	279	37.7	23.1
5	11650.00	65.8 PK	74.0	-8.2	3.27 V	131	38.5	27.3
6	11650.00	49.7 AV	54.0	-4.3	3.27 V	131	22.4	27.3

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.40	61.2 PK	68.2	-7.0	2.41 H	157	38.8	22.4
2	*5755.00	108.8 PK			2.41 H	157	66.2	42.6
3	*5755.00	99.1 AV			2.41 H	157	56.5	42.6
4	#5973.20	61.2 PK	68.2	-7.0	2.41 H	157	37.9	23.3
5	11510.00	66.4 PK	74.0	-7.6	2.68 H	197	38.4	28.0
6	11510.00	50.4 AV	54.0	-3.6	2.68 H	197	22.4	28.0

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	#5628.80	60.9 PK	68.2	-7.3	2.91 V	272	38.5	22.4
2	*5755.00	102.3 PK			2.91 V	272	59.7	42.6
3	*5755.00	92.5 AV			2.91 V	272	49.9	42.6
4	#5960.80	61.4 PK	68.2	-6.8	2.91 V	272	38.1	23.3
5	11510.00	66.1 PK	74.0	-7.9	3.24 V	127	38.1	28.0
6	11510.00	50.1 AV	54.0	-3.9	3.24 V	127	22.1	28.0

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 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	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5607.60	60.0 PK	68.2	-8.2	2.41 H	153	37.7	22.3
2	*5795.00	109.2 PK			2.41 H	153	66.4	42.8
3	*5795.00	99.3 AV			2.41 H	153	56.5	42.8
4	#5937.60	60.7 PK	68.2	-7.5	2.41 H	153	37.6	23.1
5	11590.00	66.6 PK	74.0	-7.4	2.74 H	191	38.7	27.9
6	11590.00	50.1 AV	54.0	-3.9	2.74 H	191	22.2	27.9

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	#5637.20	62.0 PK	68.2	-6.2	2.87 V	270	39.6	22.4
2	*5795.00	102.9 PK			2.87 V	270	60.1	42.8
3	*5795.00	93.6 AV			2.87 V	270	50.8	42.8
4	#5938.40	62.6 PK	68.2	-5.6	2.87 V	270	39.5	23.1
5	11590.00	66.4 PK	74.0	-7.6	3.25 V	124	38.5	27.9
6	11590.00	49.8 AV	54.0	-4.2	3.25 V	124	21.9	27.9

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5604.80	60.4 PK	68.2	-7.8	2.42 H	155	38.1	22.3
2	*5775.00	106.9 PK			2.42 H	155	64.2	42.7
3	*5775.00	94.1 AV			2.42 H	155	51.4	42.7
4	#5932.80	61.2 PK	68.2	-7.0	2.42 H	155	38.1	23.1
5	11550.00	66.2 PK	74.0	-7.8	2.66 H	188	38.2	28.0
6	11550.00	50.1 AV	54.0	-3.9	2.66 H	188	22.1	28.0

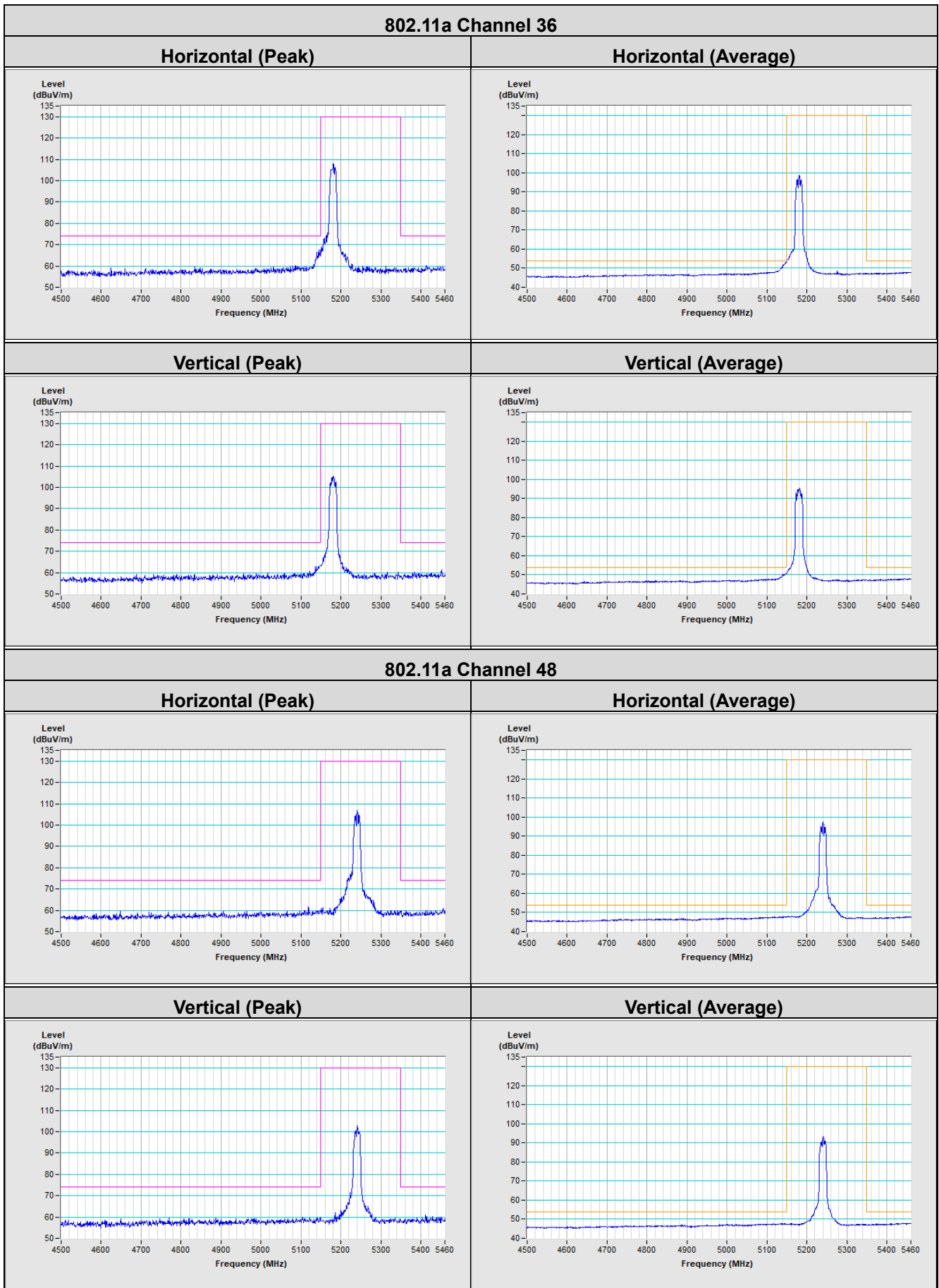
Antenna Polarity & Test Distance : Vertical at 3 m

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	#5636.00	60.2 PK	68.2	-8.0	3.03 V	269	37.8	22.4
2	*5775.00	100.9 PK			3.03 V	269	58.2	42.7
3	*5775.00	88.1 AV			3.03 V	269	45.4	42.7
4	#5940.40	62.1 PK	68.2	-6.1	3.03 V	269	39.0	23.1
5	11550.00	66.0 PK	74.0	-8.0	3.20 V	128	38.0	28.0
6	11550.00	50.0 AV	54.0	-4.0	3.20 V	128	22.0	28.0

Remarks:

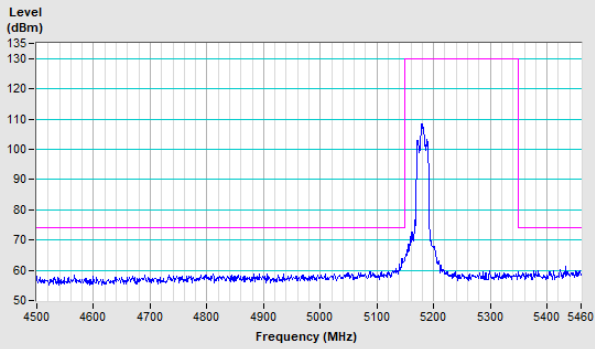
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency,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

Plot of Band Edge

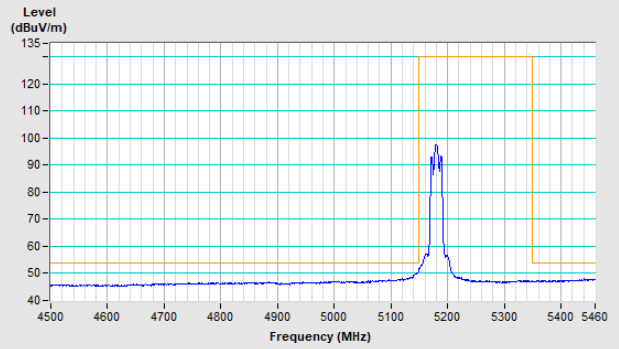


802.11n (HT20) Channel 36

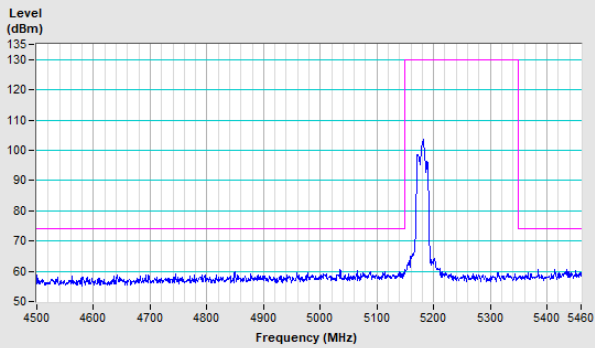
Horizontal (Peak)



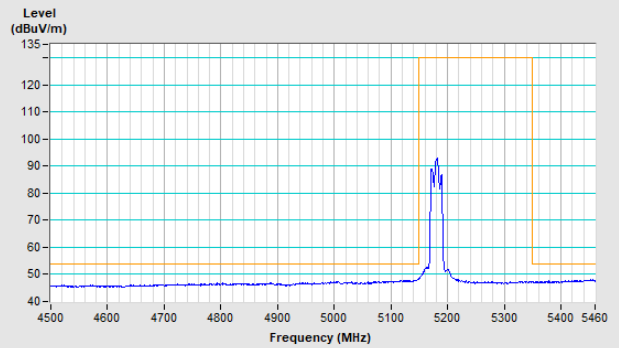
Horizontal (Average)



Vertical (Peak)

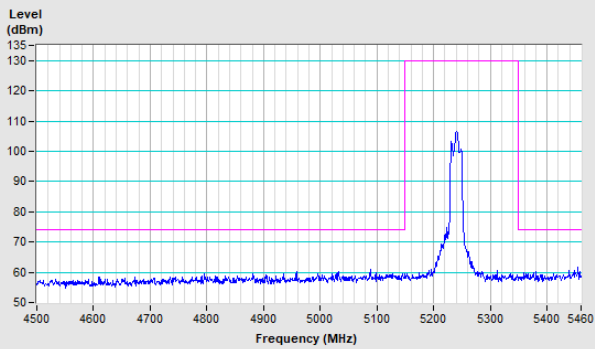


Vertical (Average)

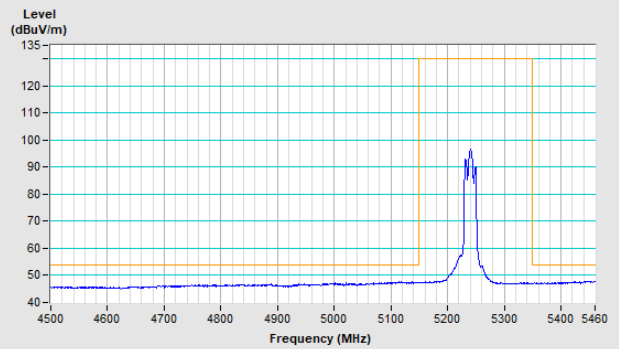


802.11n (HT20) Channel 48

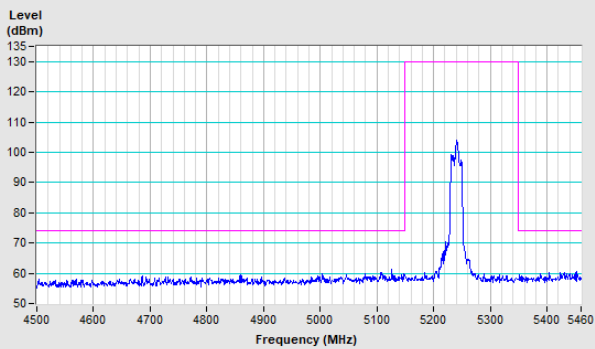
Horizontal (Peak)



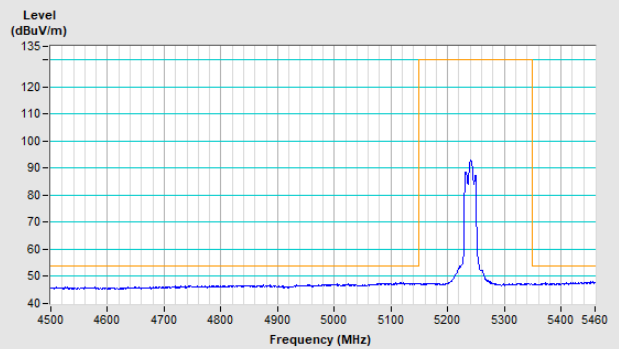
Horizontal (Average)



Vertical (Peak)

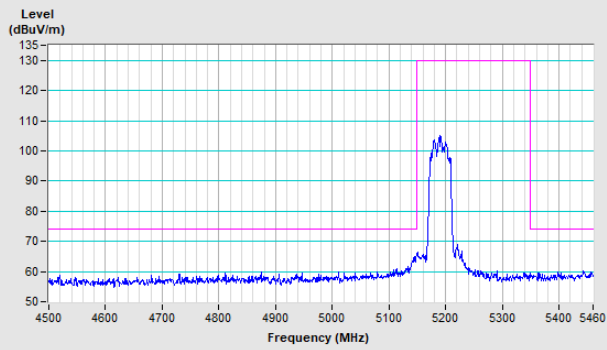


Vertical (Average)

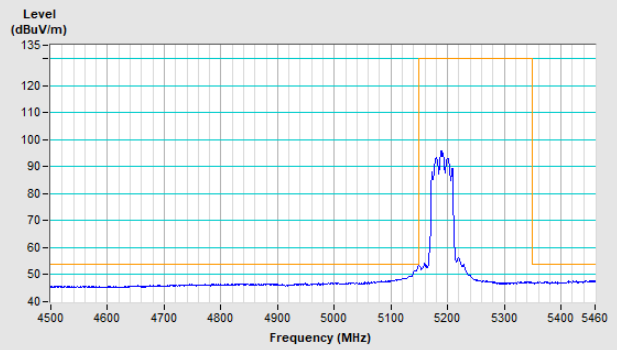


802.11n (HT40) Channel 38

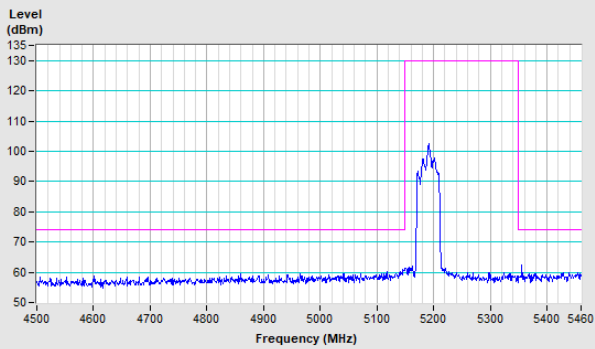
Horizontal (Peak)



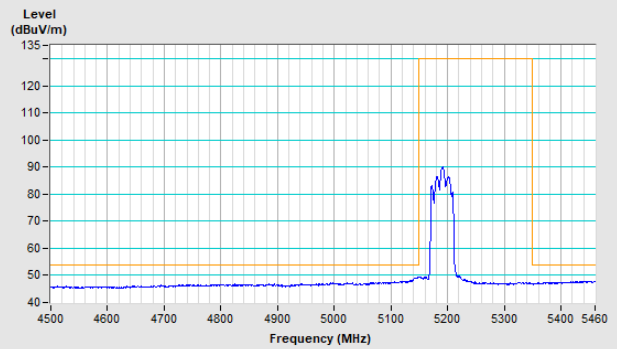
Horizontal (Average)



Vertical (Peak)

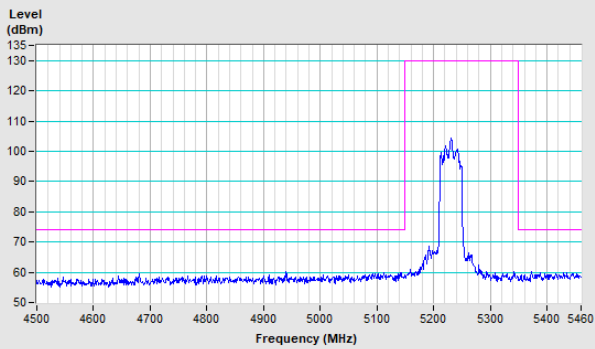


Vertical (Average)

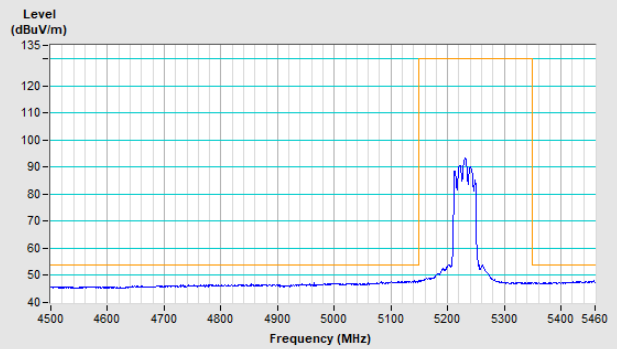


802.11n (HT40) Channel 46

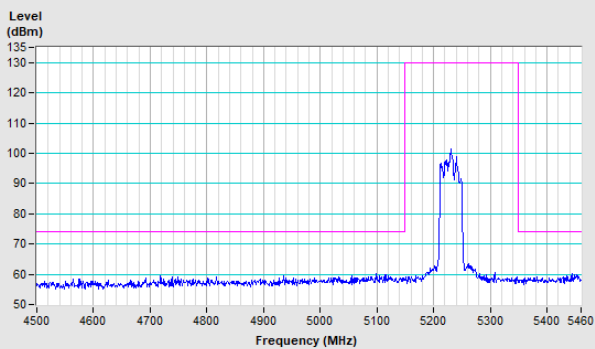
Horizontal (Peak)



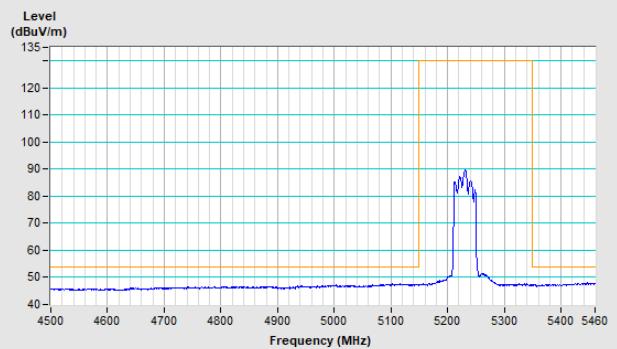
Horizontal (Average)



Vertical (Peak)

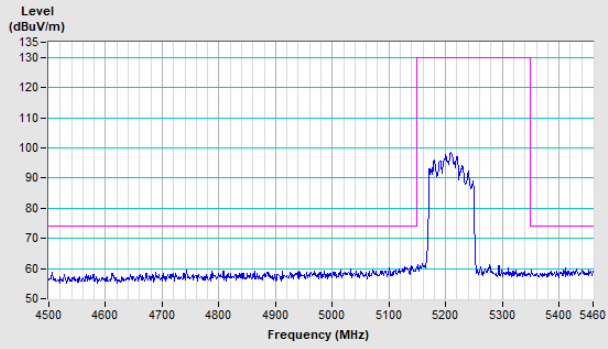


Vertical (Average)

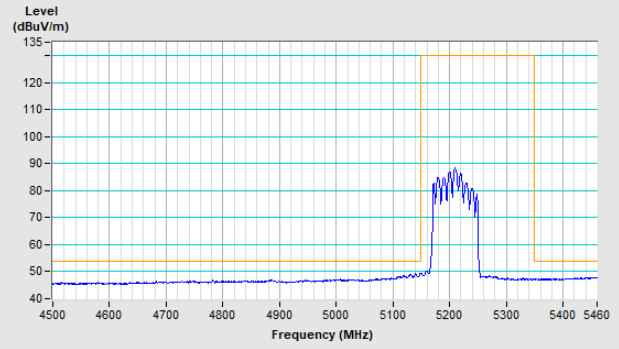


802.11ax (HE80) Channel 42

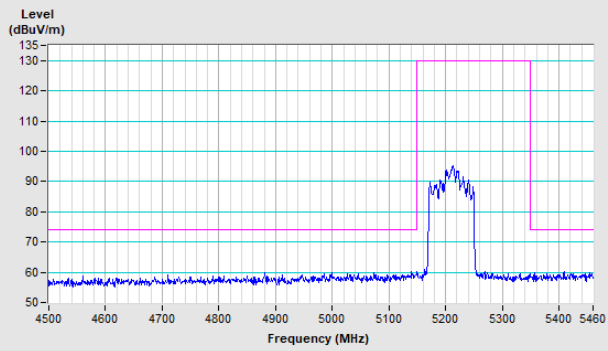
Horizontal (Peak)



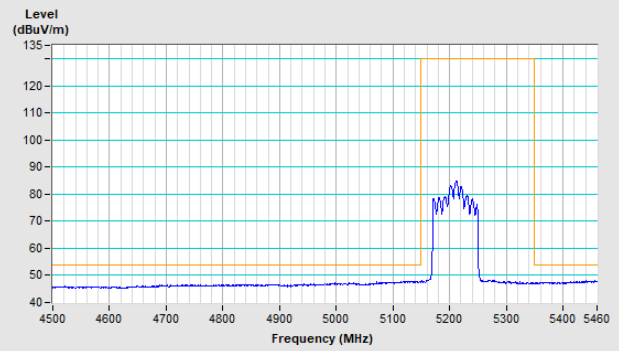
Horizontal (Average)

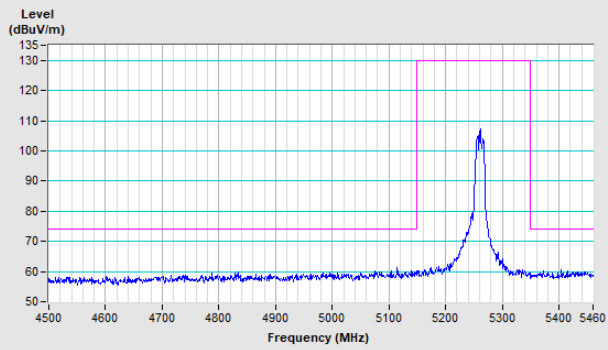
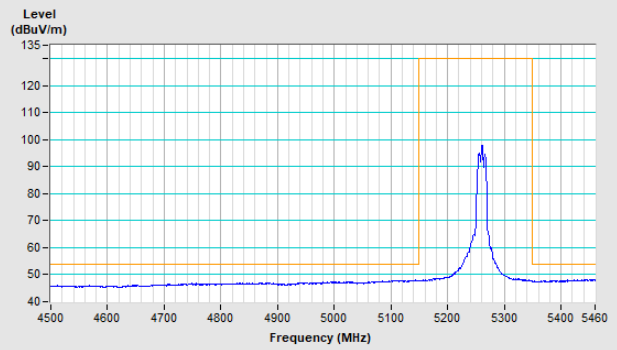
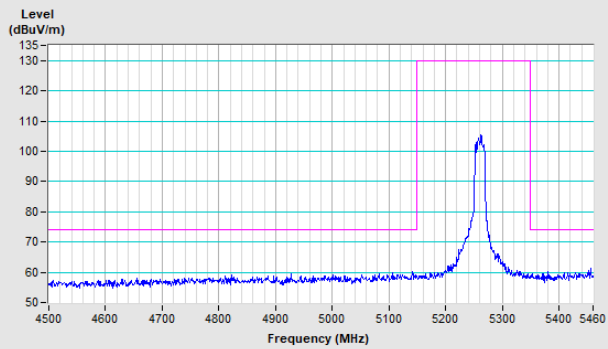
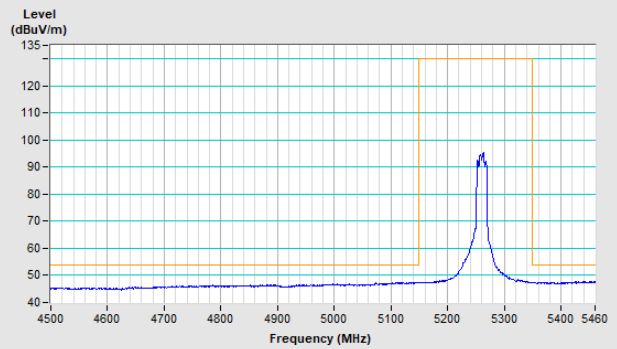
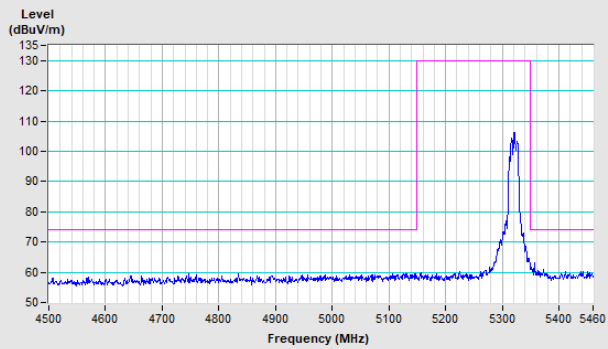
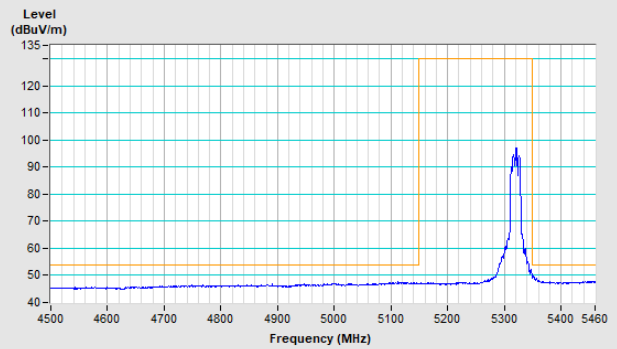
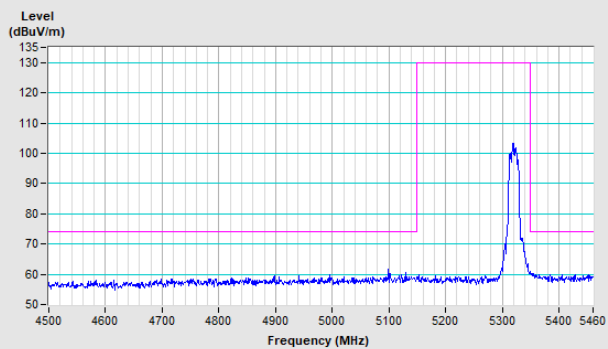
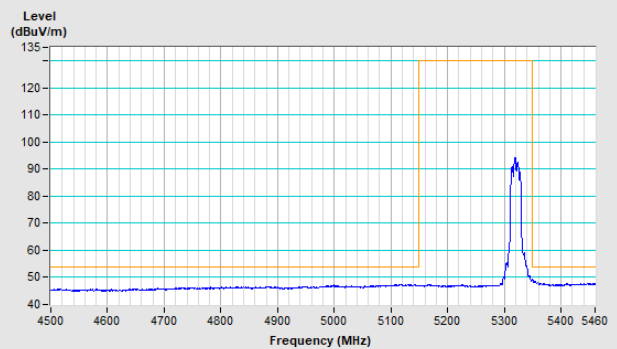


Vertical (Peak)



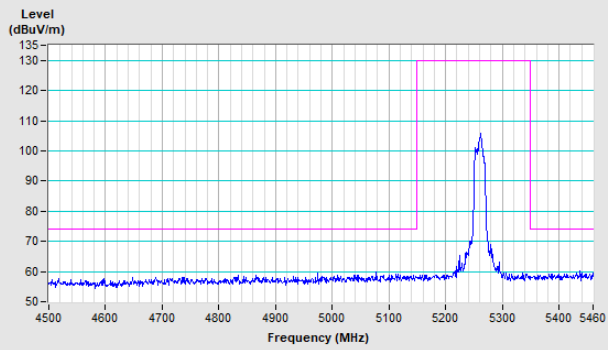
Vertical (Average)



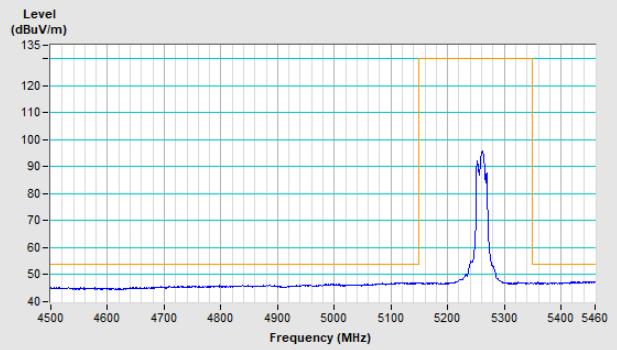
802.11a Channel 52**Horizontal (Peak)****Horizontal (Average)****Vertical (Peak)****Vertical (Average)****802.11a Channel 64****Horizontal (Peak)****Horizontal (Average)****Vertical (Peak)****Vertical (Average)**

802.11n (HT20) Channel 52

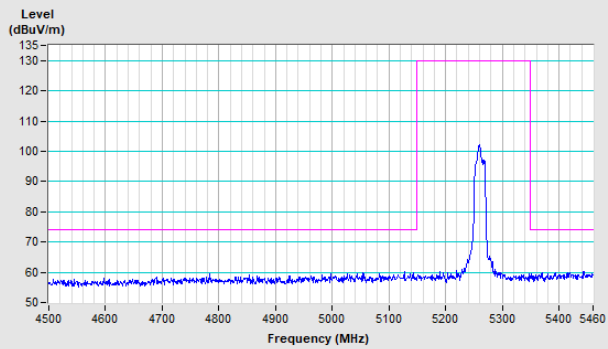
Horizontal (Peak)



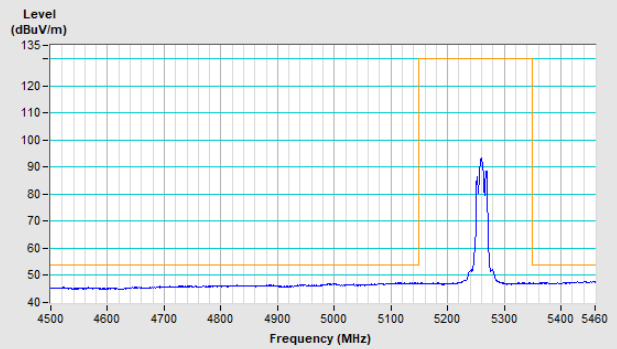
Horizontal (Average)



Vertical (Peak)

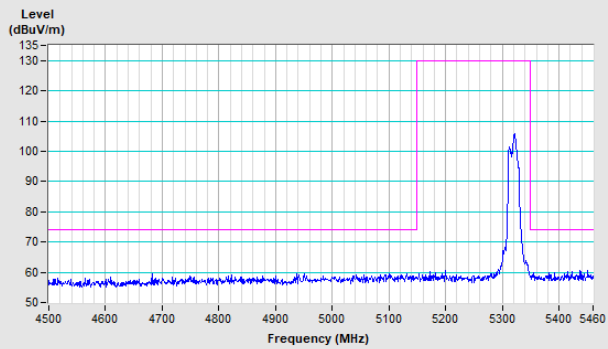


Vertical (Average)

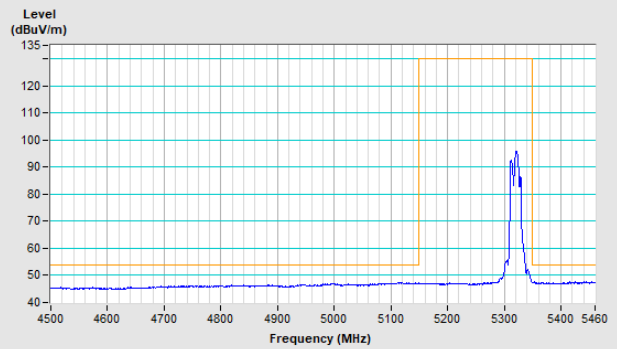


802.11n (HT20) Channel 64

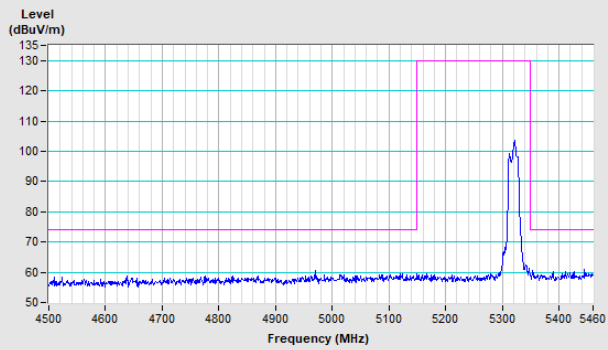
Horizontal (Peak)



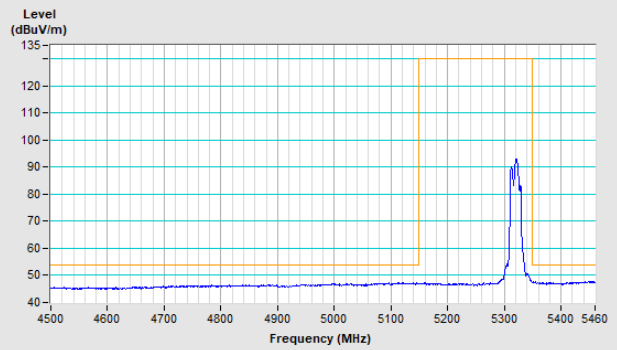
Horizontal (Average)



Vertical (Peak)

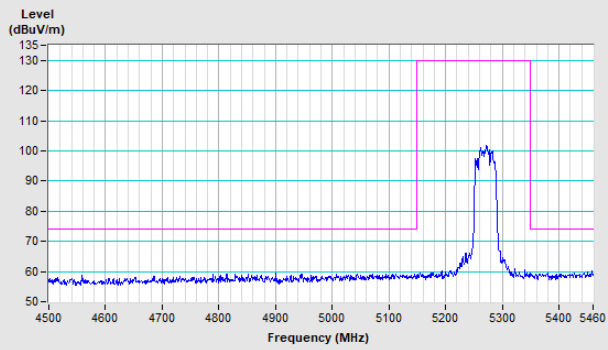


Vertical (Average)

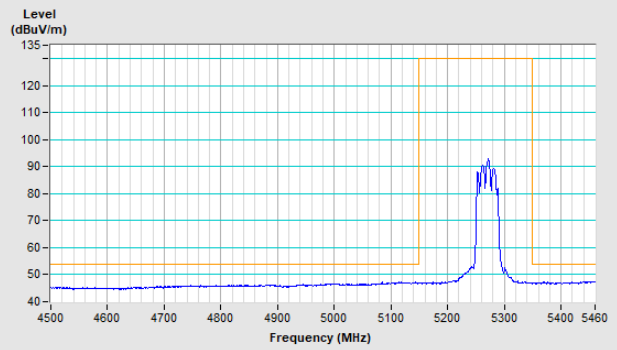


802.11n (HT40) Channel 54

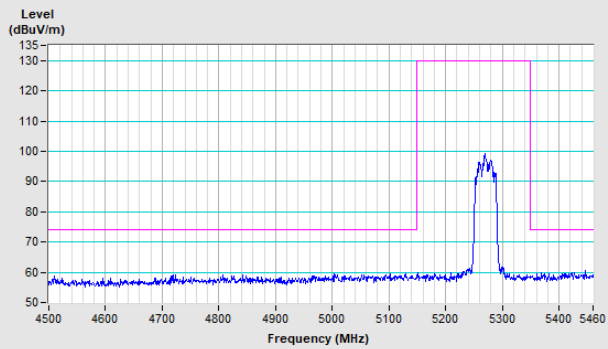
Horizontal (Peak)



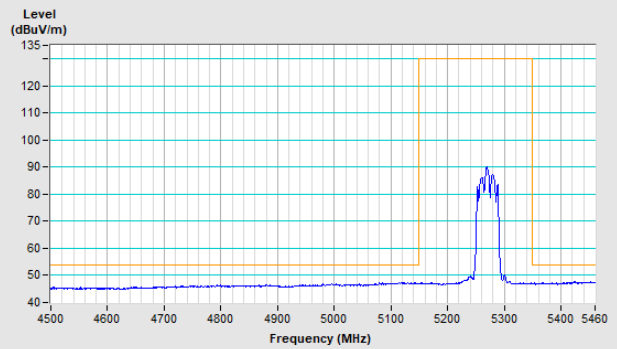
Horizontal (Average)



Vertical (Peak)

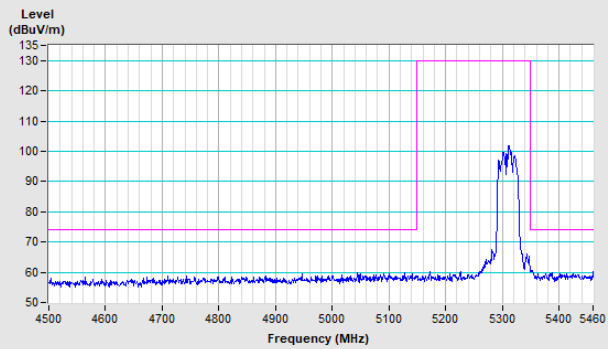


Vertical (Average)

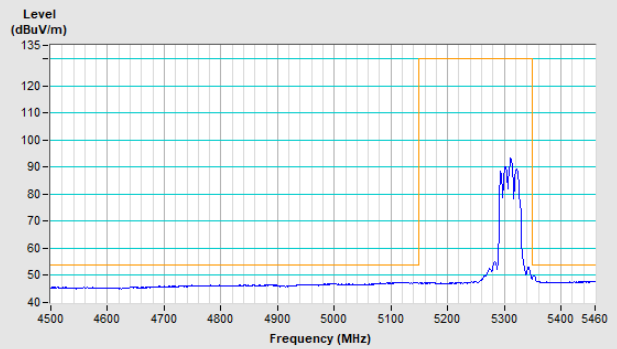


802.11n (HT40) Channel 62

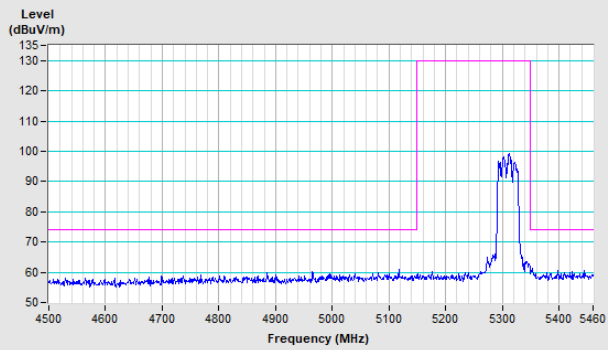
Horizontal (Peak)



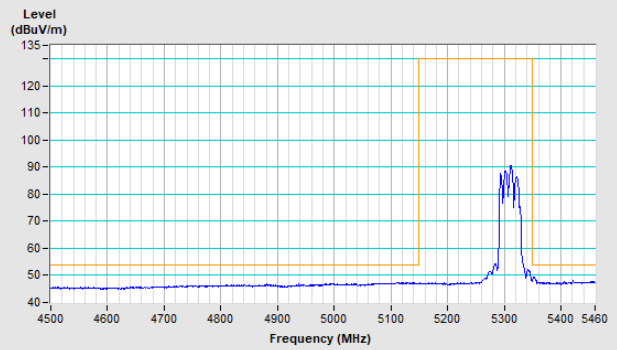
Horizontal (Average)



Vertical (Peak)

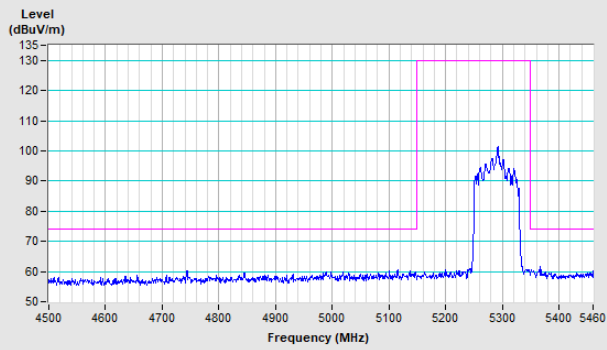


Vertical (Average)

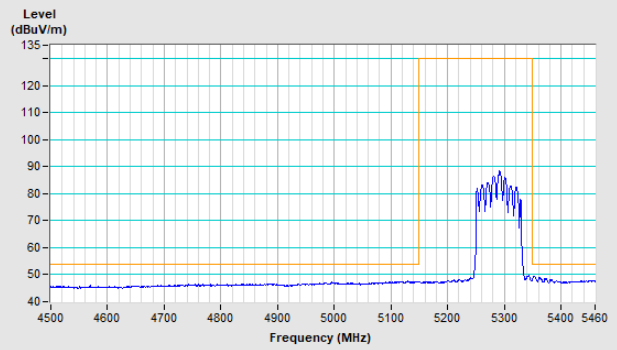


802.11ax (HE80) Channel 58

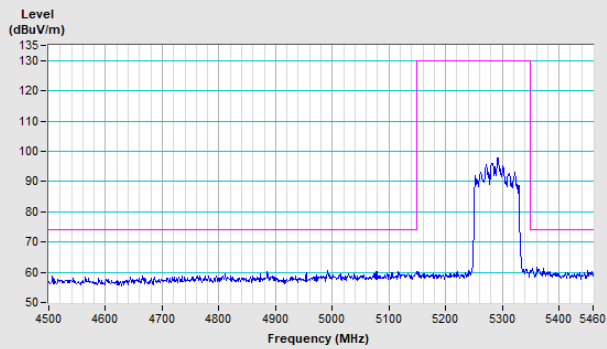
Horizontal (Peak)



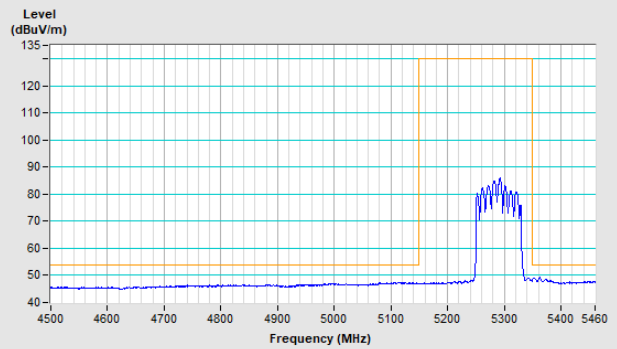
Horizontal (Average)



Vertical (Peak)

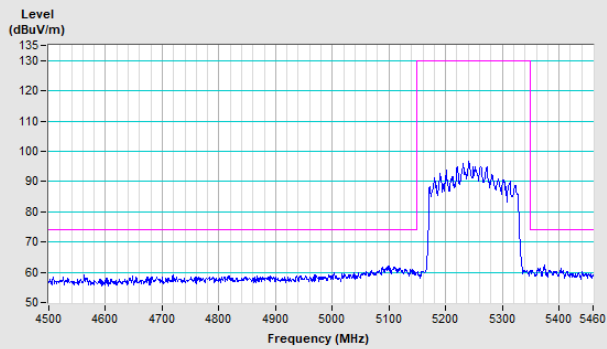


Vertical (Average)

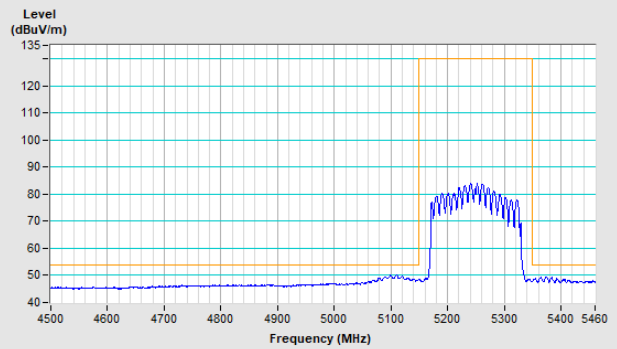


802.11ax (HE160) Channel 50

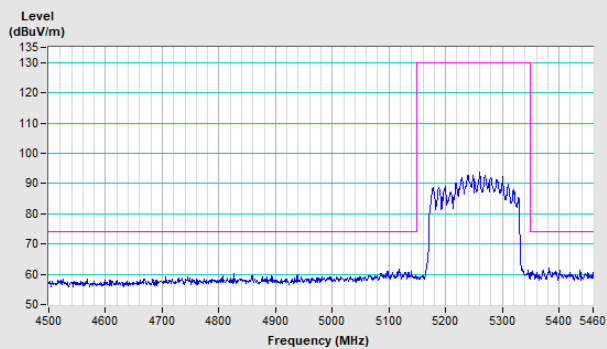
Horizontal (Peak)



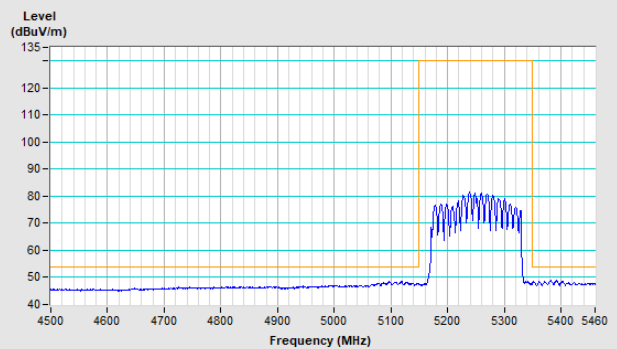
Horizontal (Average)



Vertical (Peak)

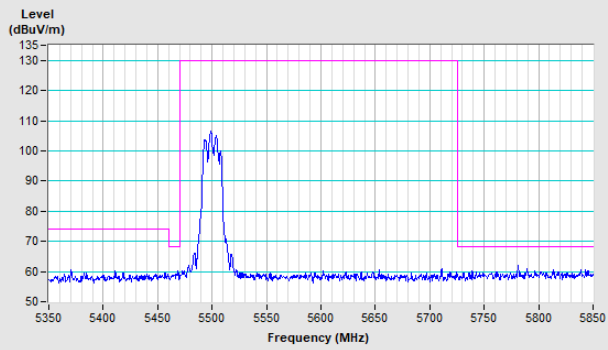


Vertical (Average)

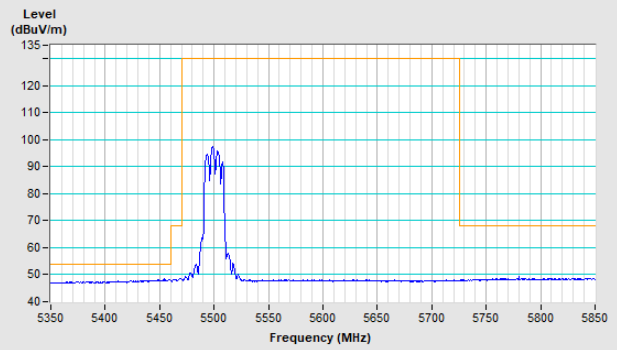


802.11a Channel 100

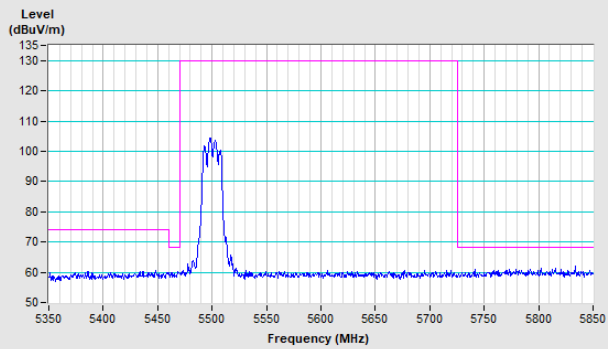
Horizontal (Peak)



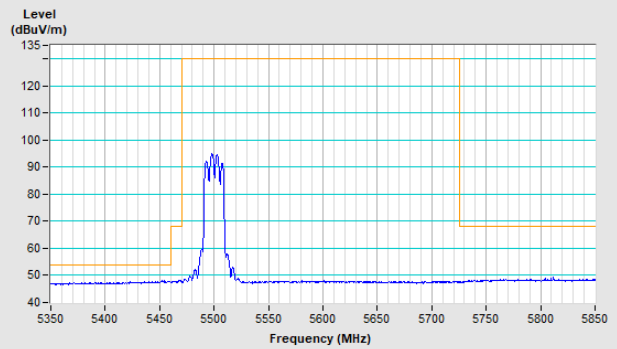
Horizontal (Average)



Vertical (Peak)

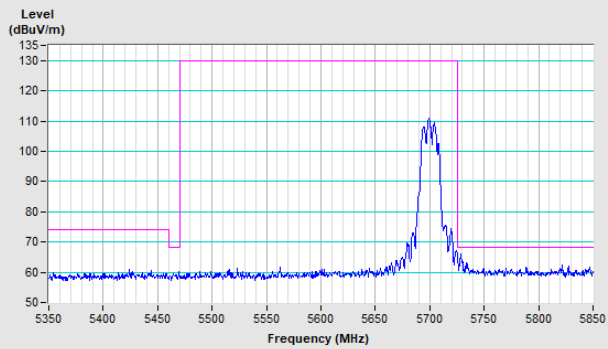


Vertical (Average)

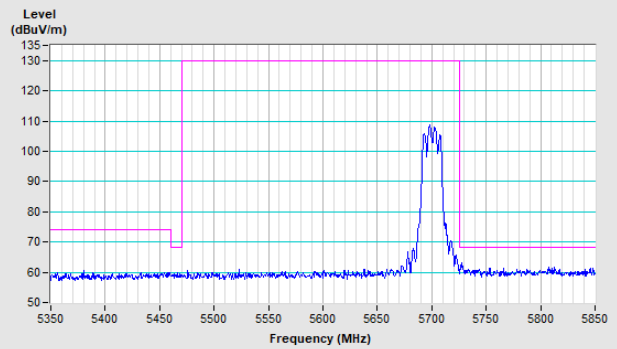


802.11a Channel 140

Horizontal (Peak)

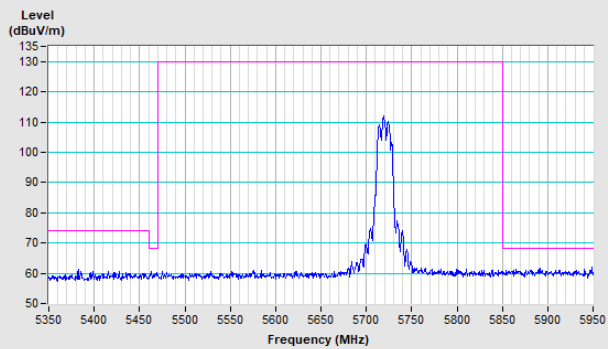


Vertical (Peak)

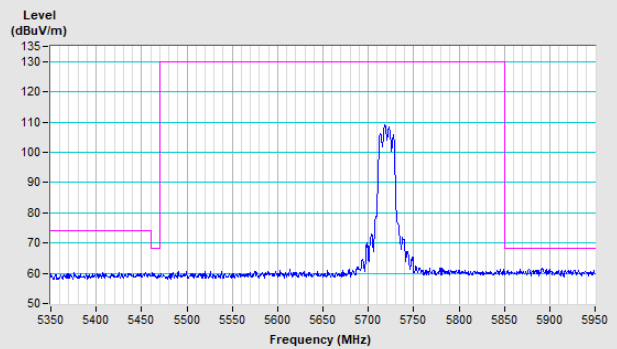


802.11a Channel 144

Horizontal (Peak)

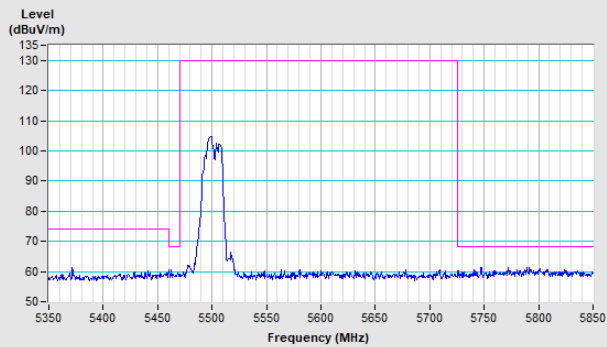


Vertical (Peak)

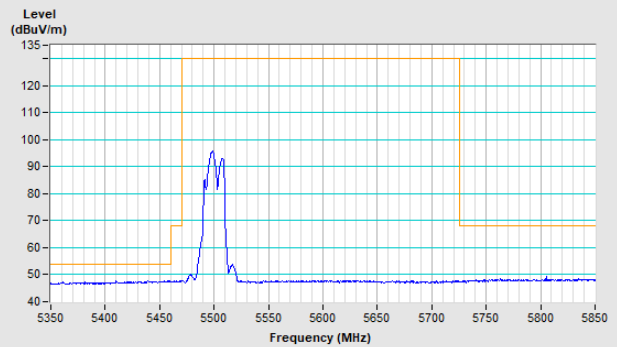


802.11n (HT20) Channel 100

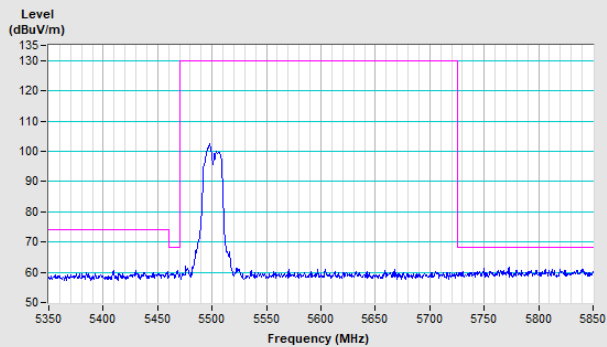
Horizontal (Peak)



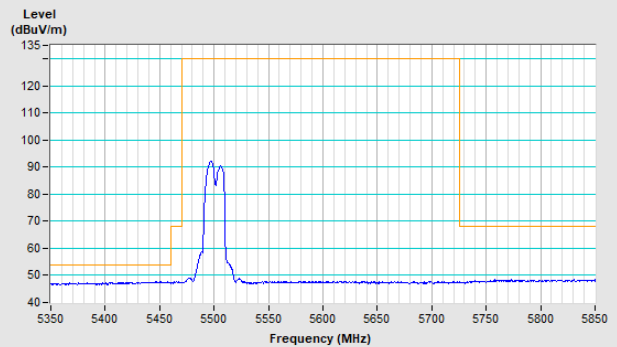
Horizontal (Average)



Vertical (Peak)

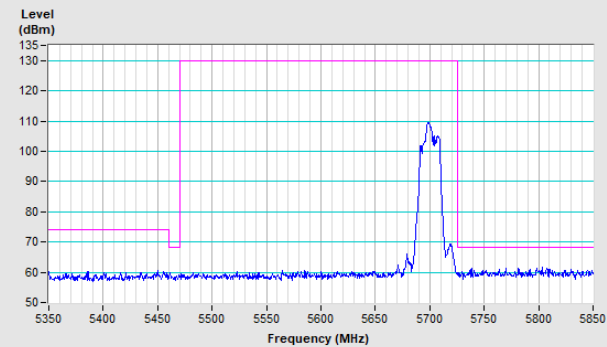


Vertical (Average)

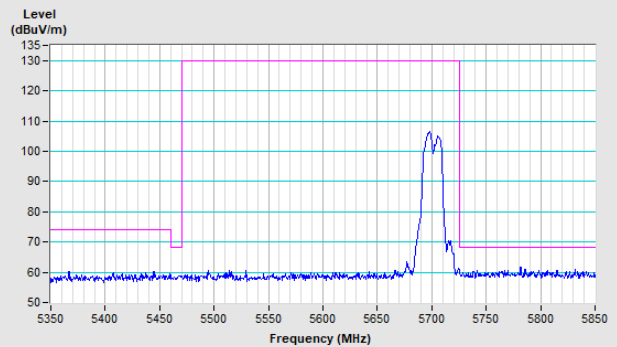


802.11n (HT20) Channel 140

Horizontal (Peak)

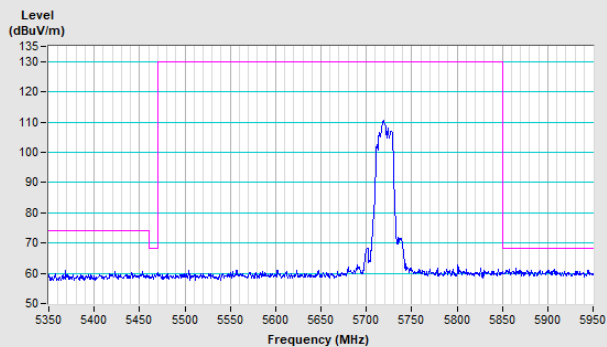


Vertical (Peak)

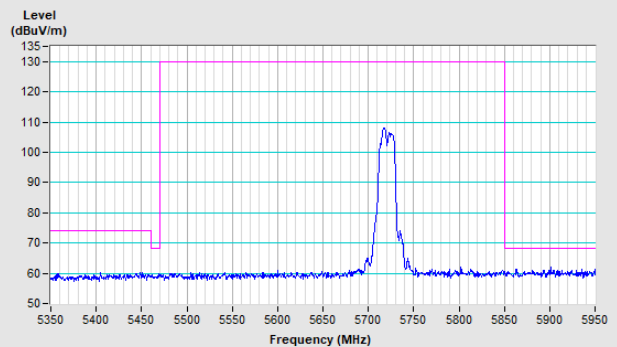


802.11n (HT20) Channel 144

Horizontal (Peak)

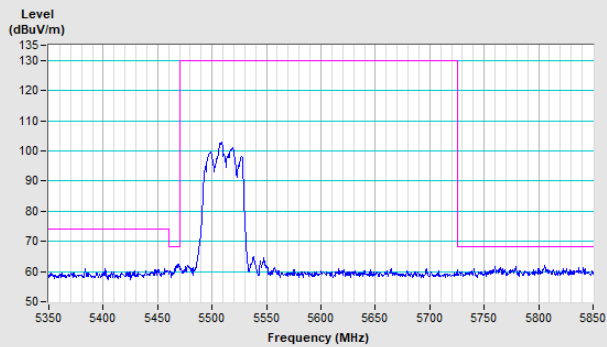


Vertical (Peak)

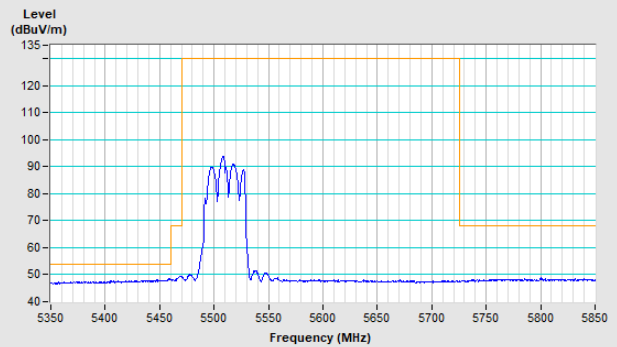


802.11n (HT40) Channel 102

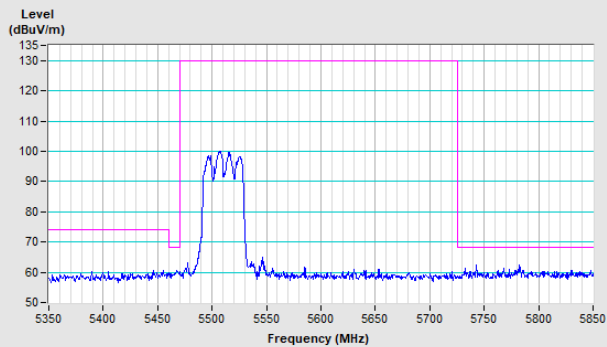
Horizontal (Peak)



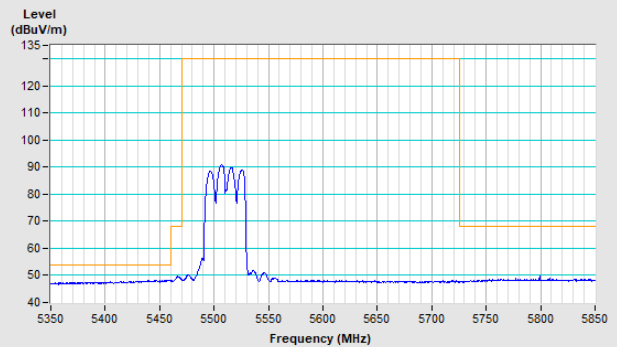
Horizontal (Average)



Vertical (Peak)

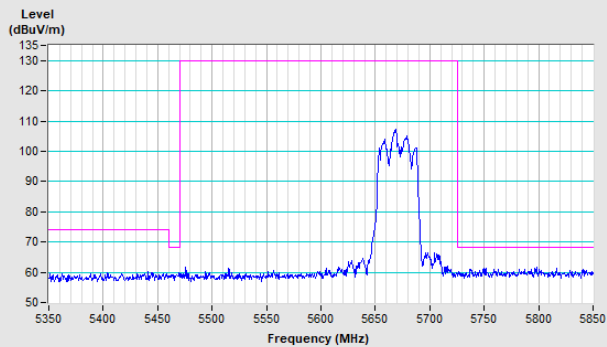


Vertical (Average)

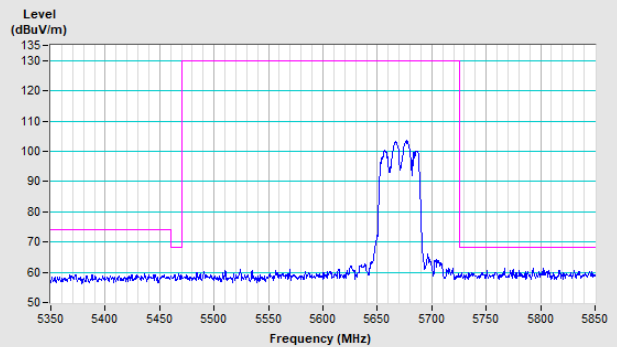


802.11n (HT40) Channel 134

Horizontal (Peak)

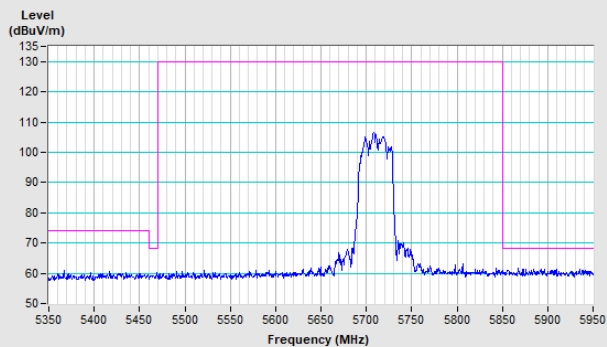


Vertical (Peak)

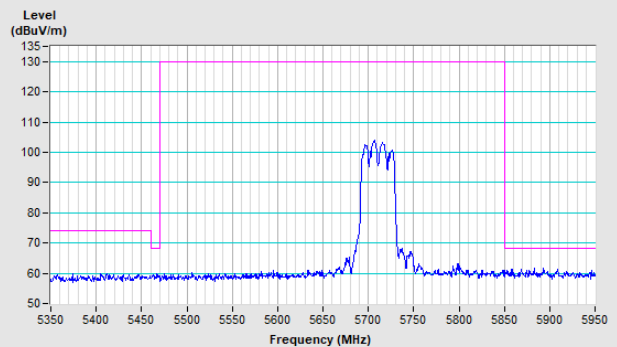


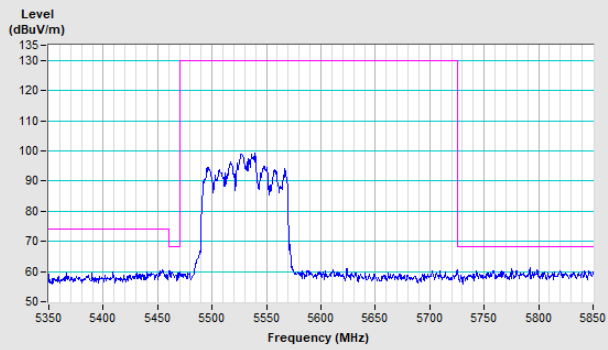
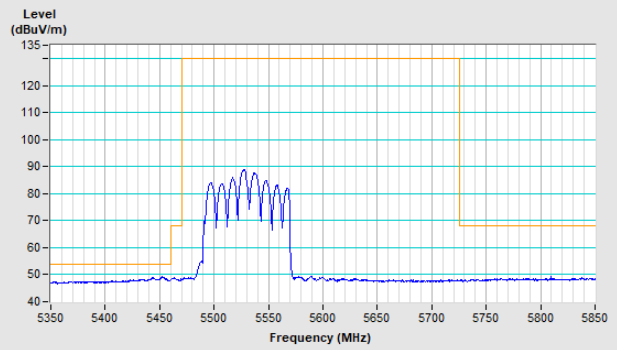
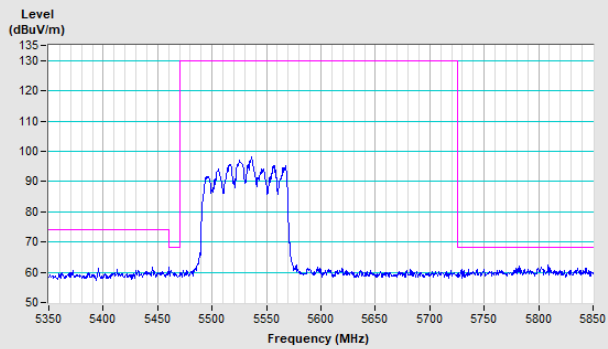
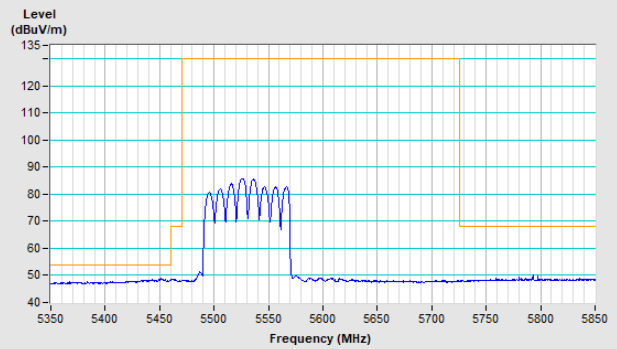
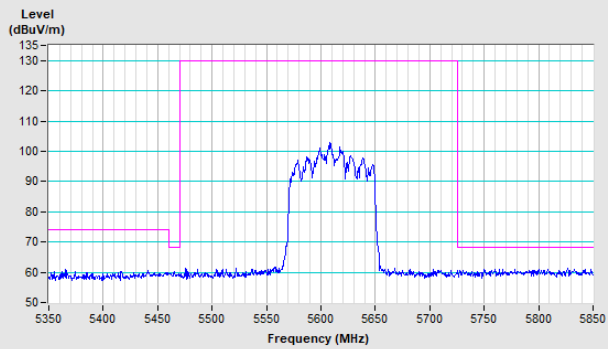
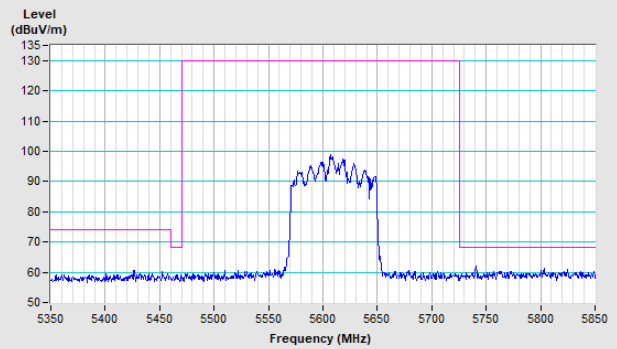
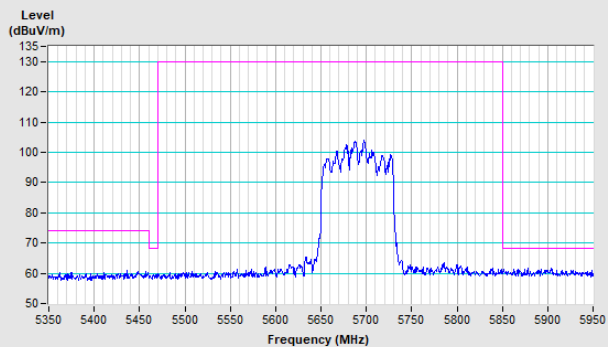
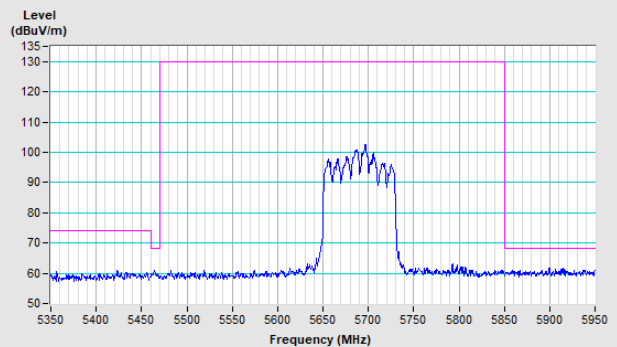
802.11n (HT40) Channel 142

Horizontal (Peak)



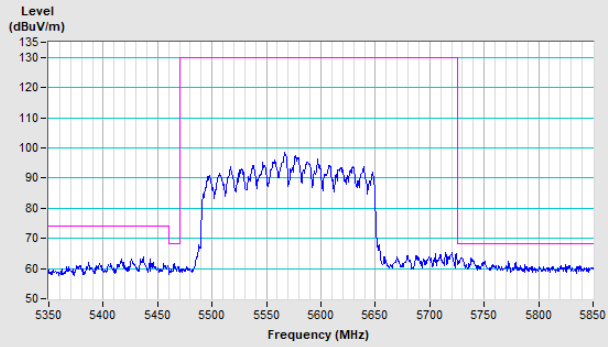
Vertical (Peak)



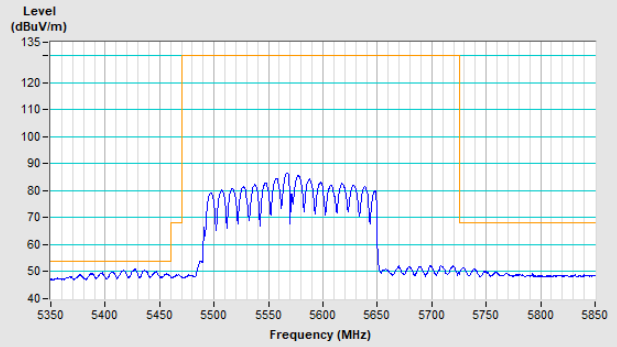
802.11ax (HE80) Channel 106**Horizontal (Peak)****Horizontal (Average)****Vertical (Peak)****Vertical (Average)****802.11ax (HE80) Channel 122****Horizontal (Peak)****Vertical (Peak)****802.11ax (HE80) Channel 138****Horizontal (Peak)****Vertical (Peak)**

802.11ax (HE160) Channel 114

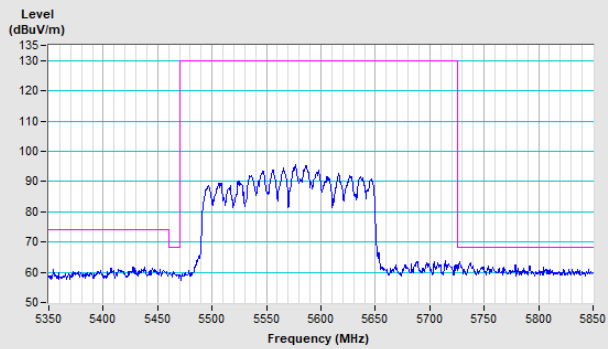
Horizontal (Peak)



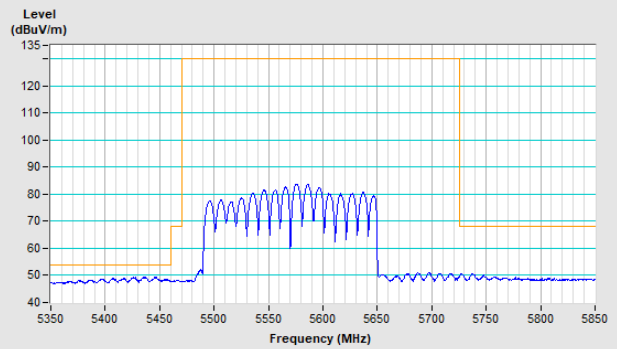
Horizontal (Average)



Vertical (Peak)

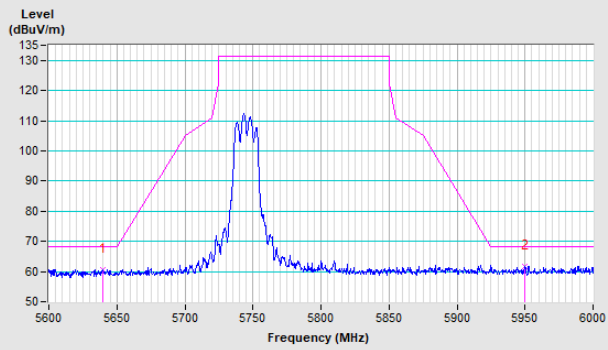


Vertical (Average)

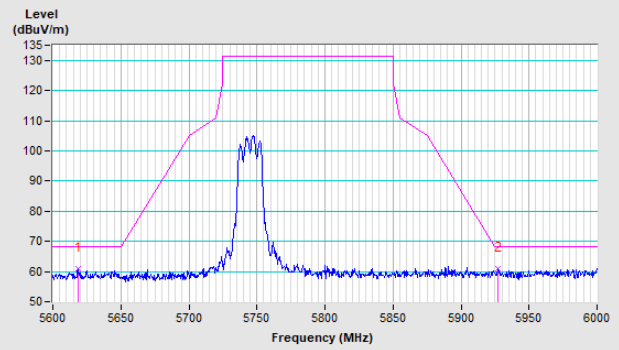


802.11a Channel 149

Horizontal (Peak)

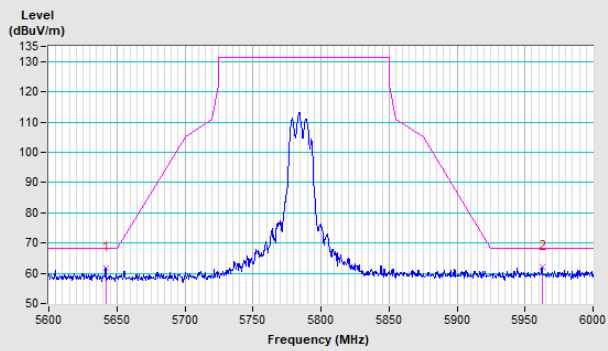


Vertical (Peak)

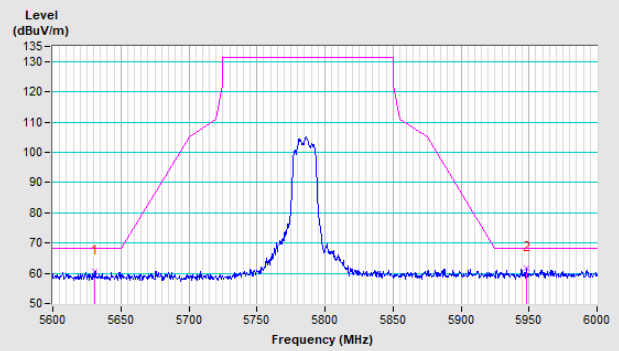


802.11a Channel 157

Horizontal (Peak)

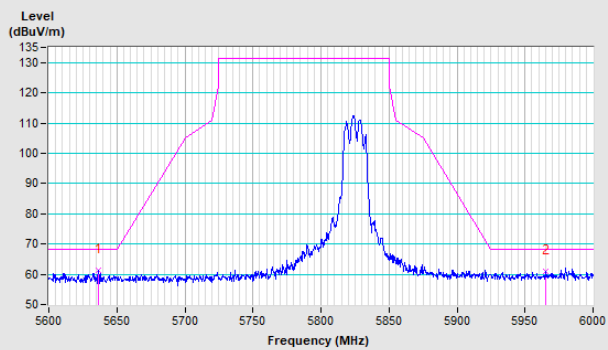


Vertical (Peak)

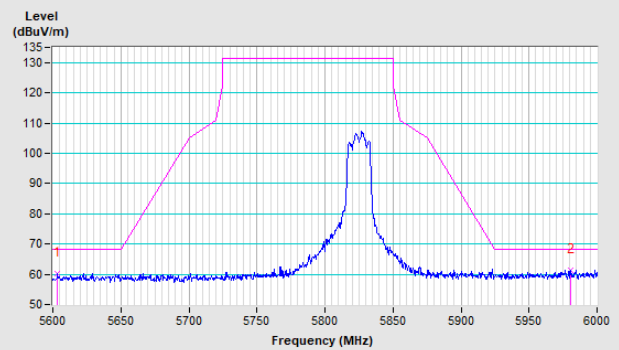


802.11a Channel 165

Horizontal (Peak)

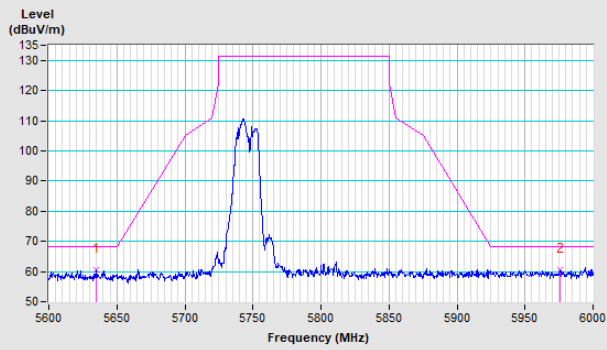


Vertical (Peak)

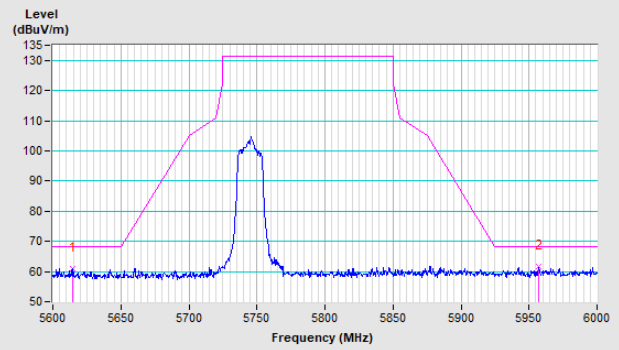


802.11n (HT20) Channel 149

Horizontal (Peak)

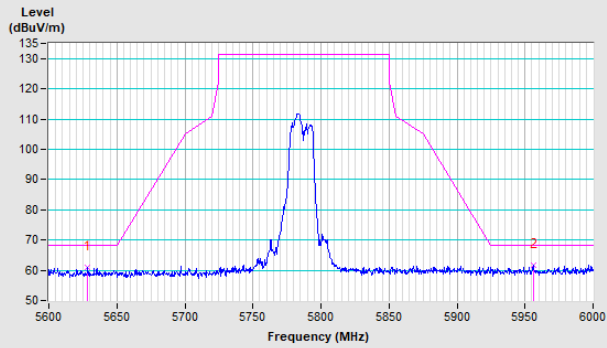


Vertical (Peak)

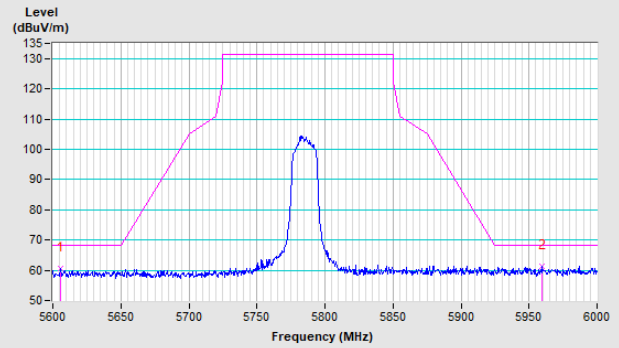


802.11n (HT20) Channel 157

Horizontal (Peak)

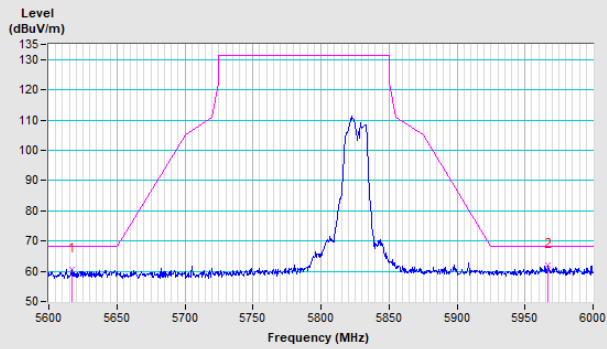


Vertical (Peak)

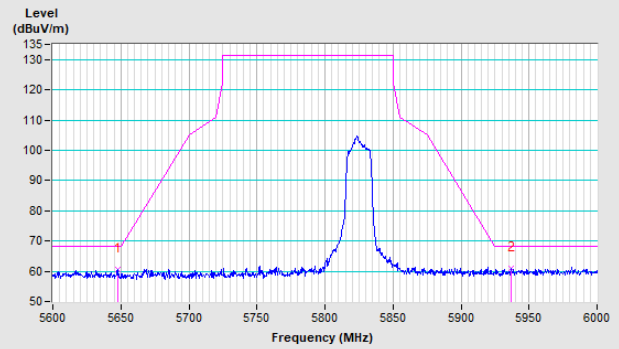


802.11n (HT20) Channel 165

Horizontal (Peak)

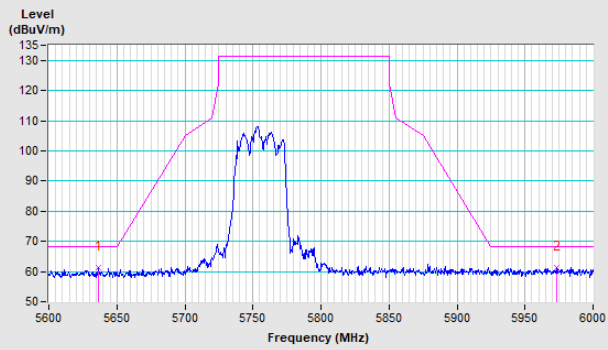


Vertical (Peak)

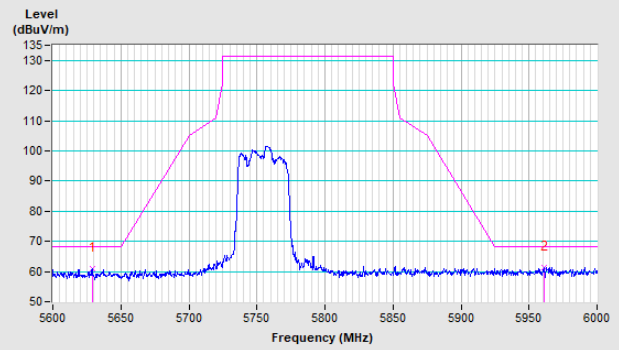


802.11n (HT40) Channel 151

Horizontal (Peak)

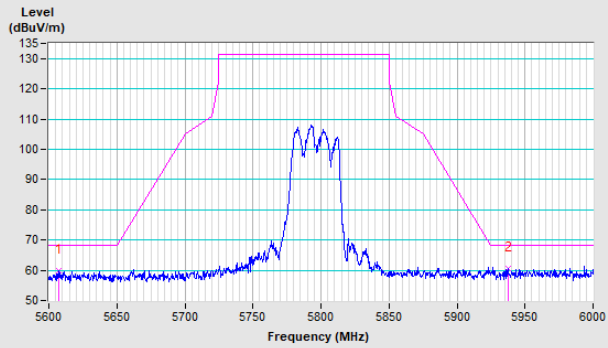


Vertical (Peak)

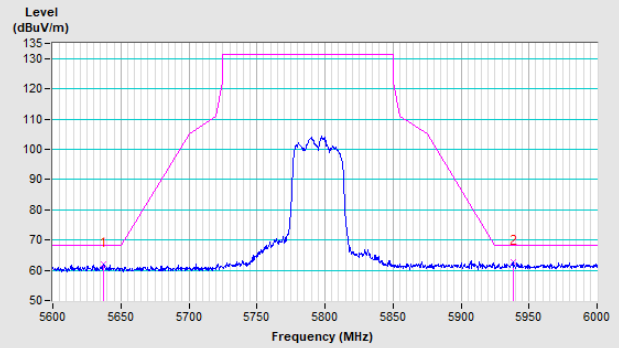


802.11n (HT40) Channel 159

Horizontal (Peak)

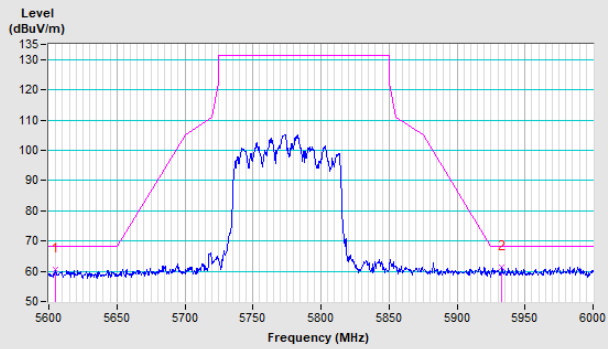


Vertical (Peak)

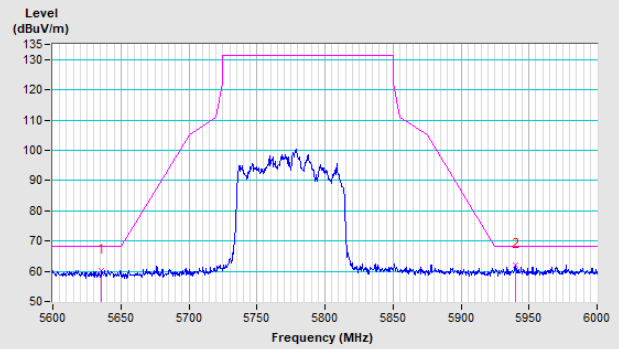


802.11ax (HE80) Channel 155

Horizontal (Peak)



Vertical (Peak)



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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