

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFCJDL-WTW-P23120588B-2
FCC ID: M72-STG62R
Product: Studio G62
Brand: Poly
Model No.: PBJ-STG-62R
Received Date: 2025/5/21
Test Date: 2025/6/10 ~ 2025/6/20
Issued Date: 2025/7/18
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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003
Designation Number: 281270 / TW0032

Approved by: _____

Jeremy Lin

Jeremy Lin / Project Engineer

, Date: _____

2025/7/18

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Prepared by : Lena Wang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFCJDL-WTW-P23120588B-2	Original release.	2025/7/18

1 Certificate

Product: Studio G62

Brand: Poly

Test Model: PBJ-STG-62R

Sample Status: Engineering sample

Applicant: HP Inc.

Test Date: 2025/6/10 ~ 2025/6/20

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

Measurement ANSI C63.10-2013

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

KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -11.50 dB at 4.43000 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -8.6 dB at 46.49 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 -7.1 dB at 5150.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Notes:

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
26 dB Bandwidth	-	206.5 Hz
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Occupied Bandwidth	-	72 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	Studio G62
Brand	Poly
Test Model	PBJ-STG-62R
Status of EUT	Engineering sample
Power Supply Rating	56Vdc from PoE
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to MCS11
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6
Output Power	5.18 GHz ~ 5.24 GHz : 20.951 mW (13.21 dBm) 5.26 GHz ~ 5.32 GHz : 23.127 mW (13.64 dBm) 5.5 GHz ~ 5.72 GHz : 15.675 mW (11.95 dBm) 5.745 GHz ~ 5.825 GHz : 15.657 mW (11.95 dBm)
EUT Category	Client device

Note:

1. This report is issued as a supplementary report to BV CPS report no. RFCJDL-WTW-P23120588-2. The difference compared with original report is as Poly have made a slight design change on PBJ-STG-62R by RF front end module (FEM) change, therefore the EUT is re-tested in this report.
2. The EUT uses following accessories.

Item	Brand	Model	Model(P/N)	Specification
POE Injector 2.5G (option)	Delta	ADH-45AR FBA	-	AC Input :100-240Vac 1.5A 50-60Hz DC Output : 56.0Vdc 0.805A 45.08W
RJ-45 Cable	SHENZHEN ETERNITY JU ELECTROIN CO LTD	-	2457-06173-001	Signal Line : 3.6m
HDMI cable	poly	-	2457-28808-006	Signal Line : 1.95m
Power cord (option)	Ching Cheng Wire Material Co Ltd	874T5AA	-	Signal Line : 2.63M
RJ-45 Cable (option) (provided with PoE kit box – cable for Zappa PoE Injector)	SHENZHEN ETERNITY JU ELECTROIN CO LTD	-	2457-06174-001	Signal Line : 0.23M

3. There are Bluetooth and WLAN (2.4 GHz & 5 GHz) technology used for the EUT.
4. The Bluetooth and WLAN cannot transmit simultaneously.
5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	Gain (dBi)									Antenna Type	Connector Type
	2400 MHz	2450 MHz	2500 MHz	5150 MHz	5350 MHz	5450 MHz	5550 MHz	5750 MHz	5850 MHz		
0	3.03	3.12	3.04	3.03	3.01	3.04	3.11	3.12	2.98	Dipole	ipex(MHF)
1	3.02	3.13	3.09	2.93	3.12	3.04	3.15	2.94	2.95	Dipole	ipex(MHF)

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

2. The EUT incorporates a MIMO function:

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

Note:

- The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz), therefore the manufacturer will control the power for 802.11n/ac mode is same as the 802.11ax mode or lower than it and investigated worst case to representative mode in test report.
- The EUT device modulation technique OFDMA does not support partial RUs (resource units) and channel puncturing/bandwidth reduction mechanisms.

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 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		

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: Wall Mount/ X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. Wall Mount/ X-axis/ Y-axis/ Z-axis Worst Condition:Z-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
	802.11ax (HE20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ax (HE40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ax (HE80)	CDD	58, 106, 122, 138	BPSK	MCS0
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	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
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
Power Spectral Density	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
6 dB Bandwidth	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	138, 155	BPSK	MCS0
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
AC Power Conducted Emissions	802.11ax (HE80)	CDD	58	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE80)	CDD	58	BPSK	MCS0

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0

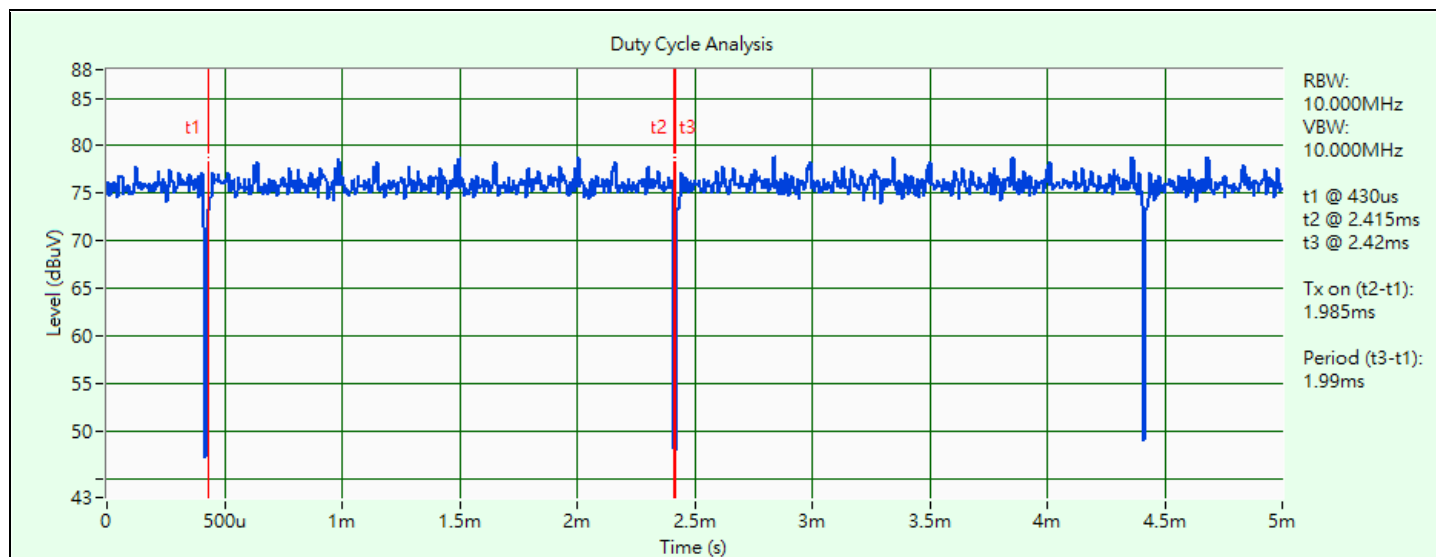
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 1.985 ms / 1.99 ms x 100% = 99.7%

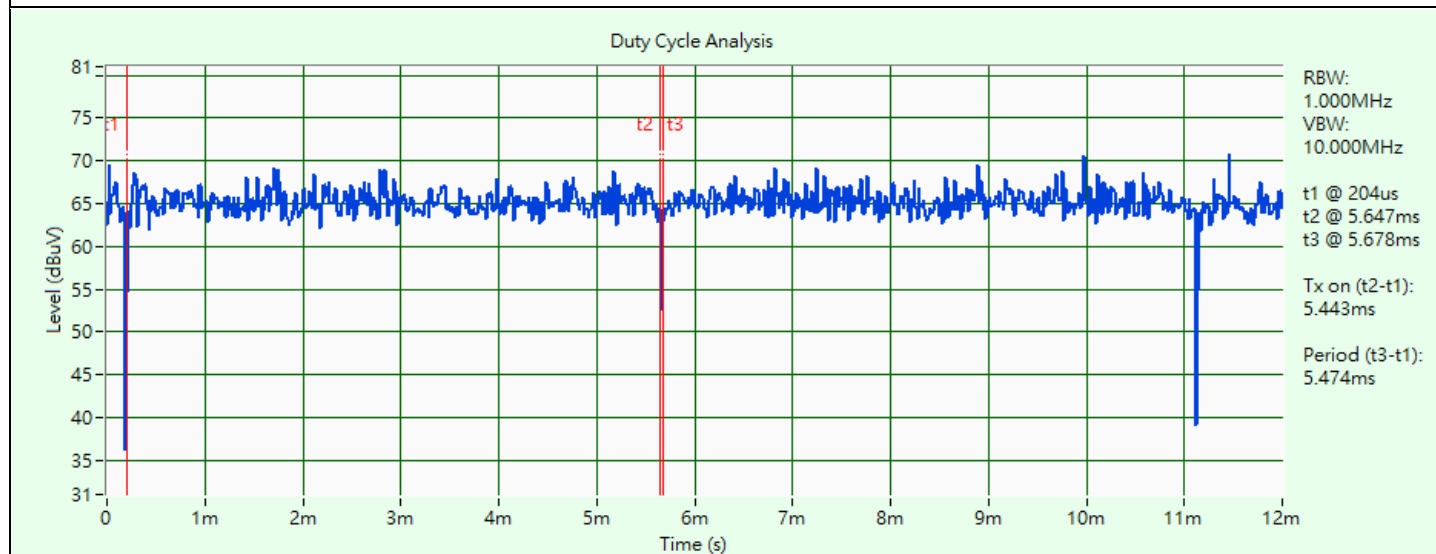
802.11ax (HE20): Duty cycle = 5.443 ms / 5.474 ms x 100% = 99.4%

802.11ax (HE40): Duty cycle = 5.436 ms / 5.448 ms x 100% = 99.8%

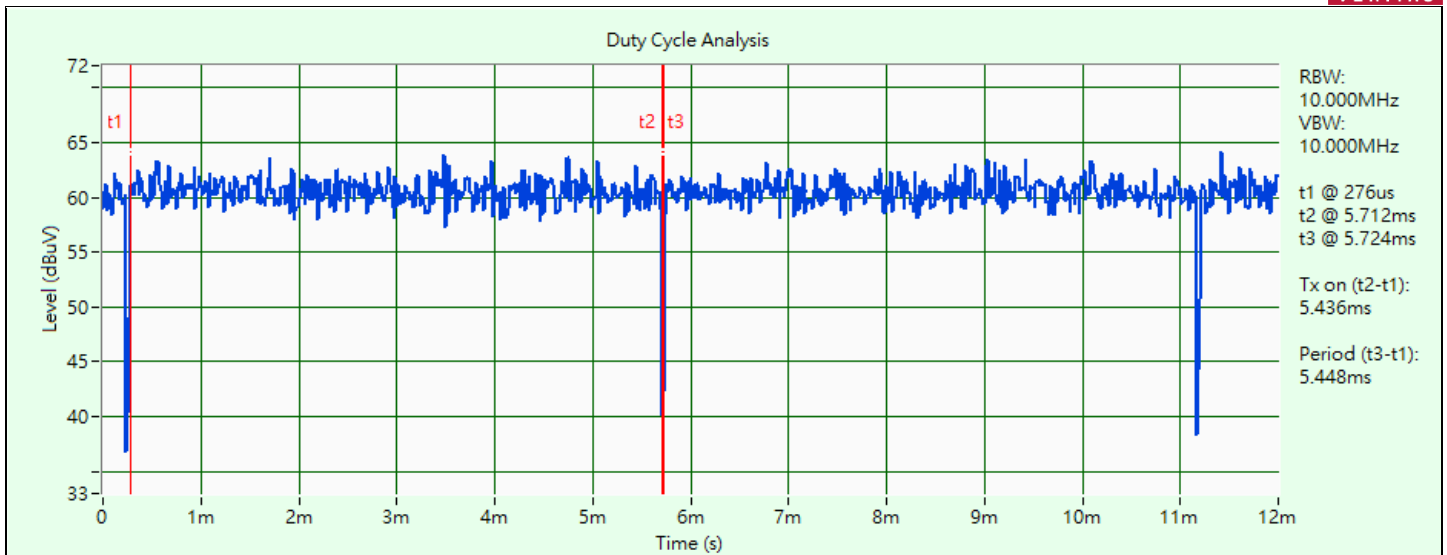
802.11ax (HE80): Duty cycle = 5.424 ms / 5.448 ms x 100% = 99.6%



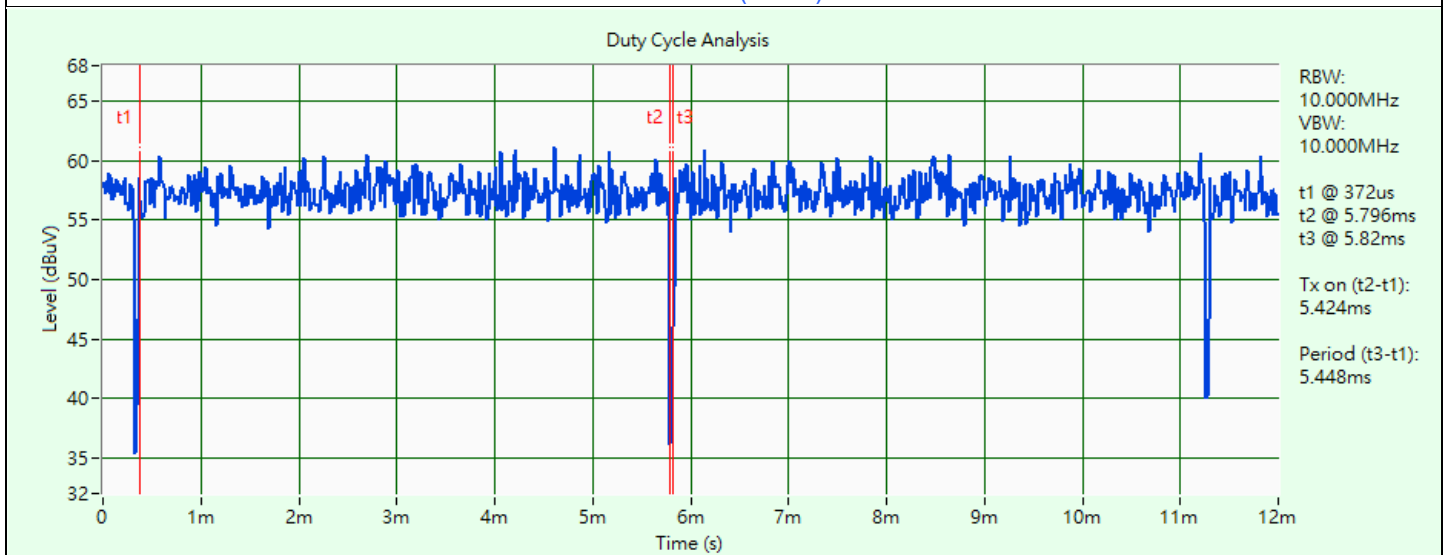
802.11a



802.11ax (HE20)



802.11ax (HE40)



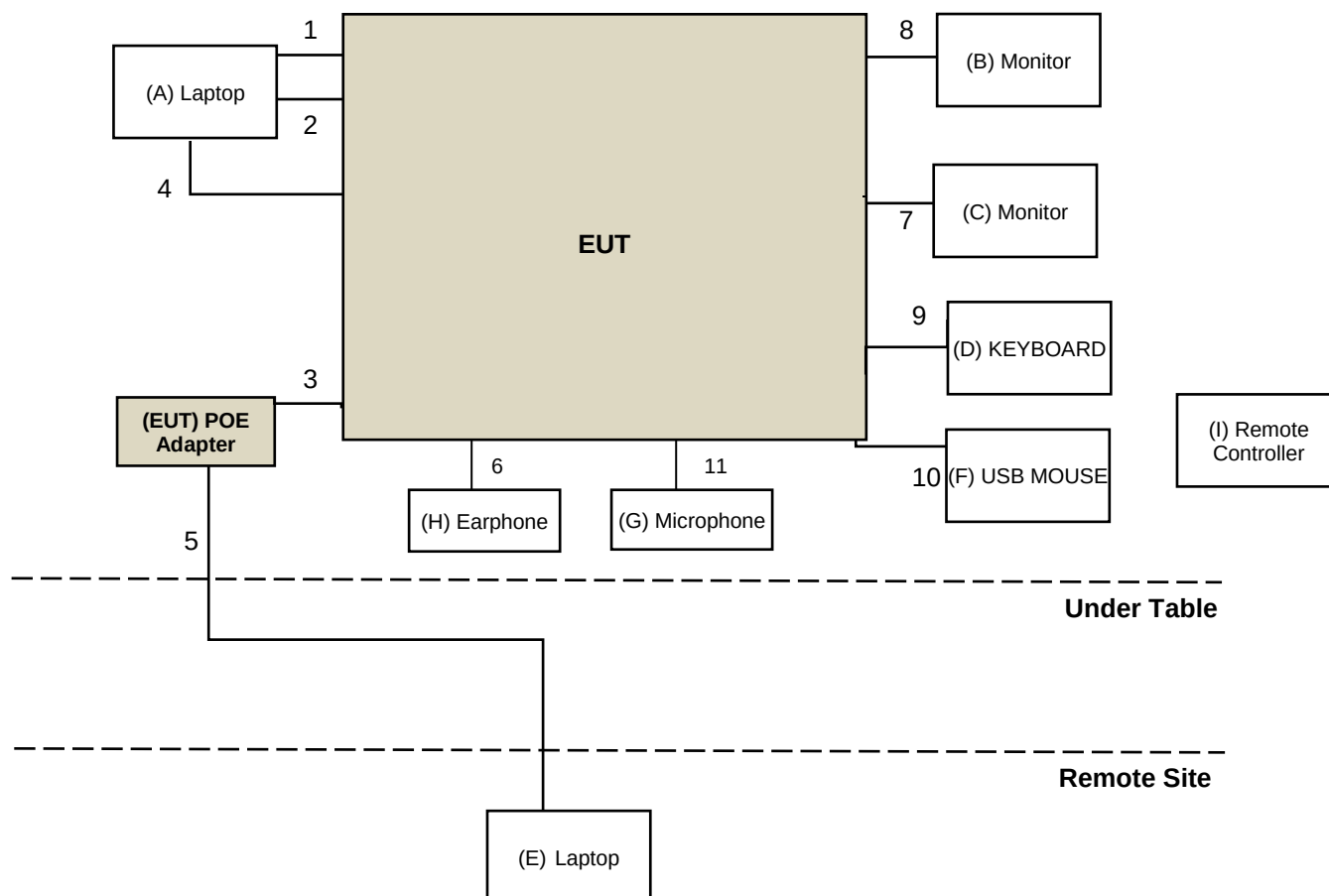
802.11ax (HE80)

3.6 Test Program Used and Operation Descriptions

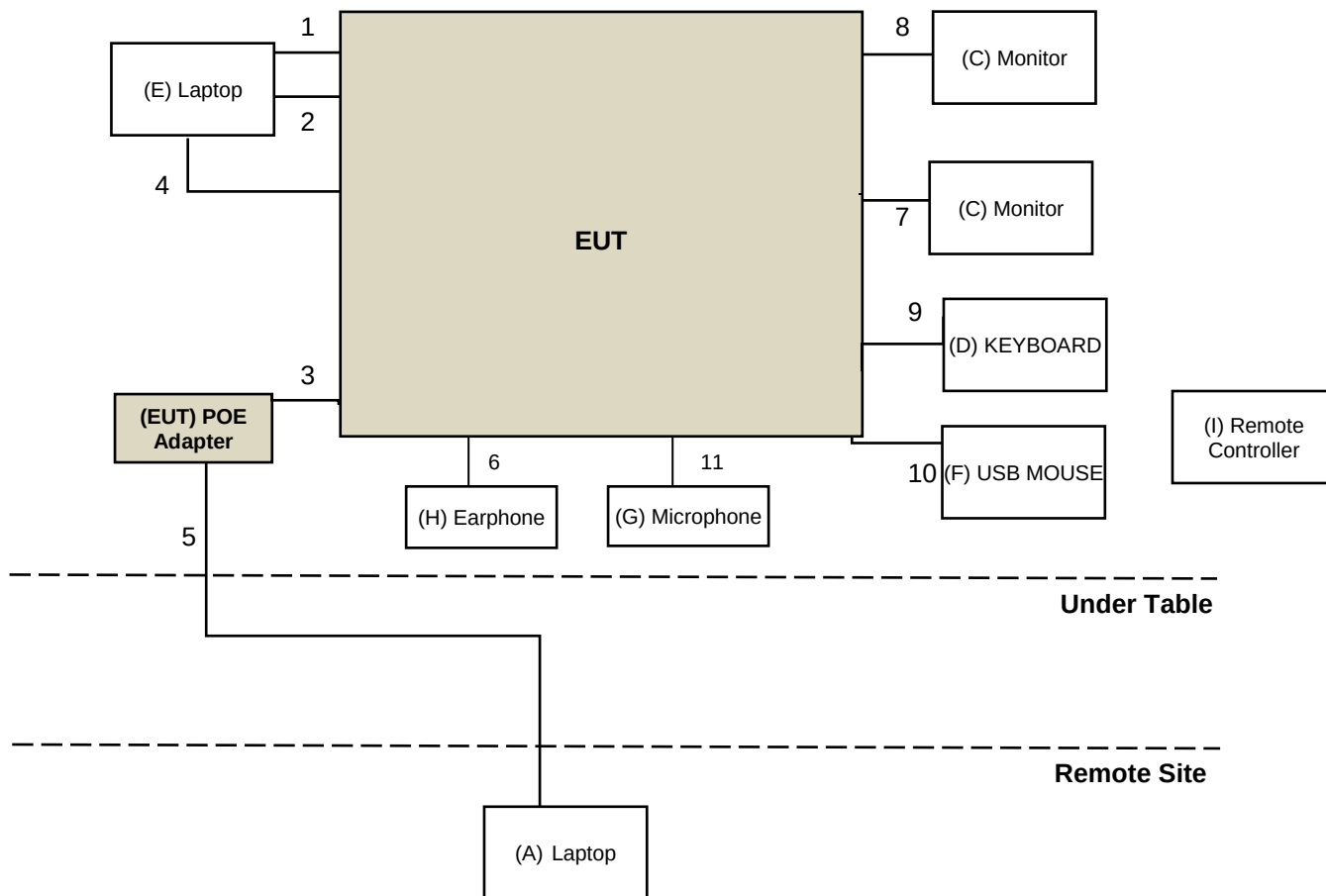
Controlling software WIFI_BT_DEBUG_TOOL_v0.0.1.6 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For Radiation



For Conduction



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	HP	TPN-C139	CND9281WLL	N/A	Provided by Lab
B	Monitor	ASUS	VP247	L9LMTF126299	N/A	Provided by Lab
C	Monitor	DELL	S2421HSX	CN-01KWWF-WSL00-24C-713B-A01	N/A	Provided by Lab
D	KEYBOARD	Logitech	K120	N/A	N/A	Provided by Lab
E	Laptop	Lenovo	L470	PF11CSQA	N/A	Provided by Lab
F	USB MOUSE	Lenovo	MOEUUOA	N/A	N/A	Provided by Lab
G	Microphone	E-books	E-EBP130	EB-SL-B-3K21-08-01165	N/A	Provided by Lab
H	Earphone	Apple	MB77PFEB	N/A	N/A	Provided by Lab
I	Remote Controller	Poly	BW7630UN	874R8AA	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB TYPE-C TO TYPE-A	1	1.5	Y	0	Provided by Lab
2	HDMI	1	1.95	Y	0	Supplied by applicant
3	LAN	1	0.23	Y	0	Supplied by applicant
4	LAN	1	3.6	Y	0	Supplied by applicant
5	LAN	1	10	N	0	Provided by Lab
6	Earphone Cable	1	1.2	N	0	Provided by Lab
7	HDMI	1	1.95	Y	0	Supplied by applicant
8	HDMI	1	1.95	Y	0	Supplied by applicant
9	USB	1	1.5	N	0	Provided by Lab
10	USB	1	1.8	N	0	Provided by Lab
11	Microphone Cable	1	1.5	N	0	Provided by Lab

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2024/6/18	2025/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/6/16

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Peak Power Analyzer Keysight	8990B	MY51000485	2025/1/20	2026/1/19
Signal & Spectrum Analyzer R&S	FSV3044	101504	2024/6/18	2025/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Wideband Power Sensor Keysight	N1923A	MY58020002	2025/1/21	2026/1/20
		MY58140009	2025/1/21	2026/1/20

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/6/16

4.3 Power Spectral Density

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

4.4 6 dB Bandwidth

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

4.5 Occupied Bandwidth

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

4.6 AC Power Conducted Emissions

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

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2025/6/20

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1213	2024/10/14	2025/10/13
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXE EMI Receiver Keysight	N9038B	MY60180019	2025/1/15	2026/1/14
Preamplifier EMCI	EMC330N	980782	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201233	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-3000	201235	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-9000	201236(with PAD)	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2025/6/17

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Horn Antenna RFSPIN	DRH18-E	210103A18E	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2024/11/10	2025/11/9
MXE EMI Receiver Keysight	N9038B	MY60180019	2025/1/15	2026/1/14
Preamplifier EMCI	EMC118A45SE	980808	2024/12/26	2025/12/25
	EMC184045SE	980788	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2025/1/14	2026/1/13
	EMC101G-KM-KM-3000	201258	2025/1/14	2026/1/13
	EMC101G-KM-KM-5000	201261	2025/1/14	2026/1/13
	EMC104-SM-SM-1000	210102	2025/1/14	2026/1/13
	EMC104-SM-SM-3000	201231	2025/1/14	2026/1/13
	EMC104-SM-SM-9000	201243	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2025/6/10 ~ 2025/6/13

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

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

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

*B is the 26 dB emission bandwidth in megahertz

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

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

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

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

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

5.3 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Points	
	Indoor Access Point	
	Client devices	11 dBm/MHz

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

5.4 6 dB Bandwidth

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 AC Power Conducted Emissions

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

Notes:

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

5.7 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.8 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2 (dBμV/m) ^{*1} PK: 105.2 (dBμV/m) ^{*2} PK: 110.8 (dBμV/m) ^{*3} PK: 122.2 (dBμV/m) ^{*4}
^{*1} beyond 75 MHz or more above of the band edge. ^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. ^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

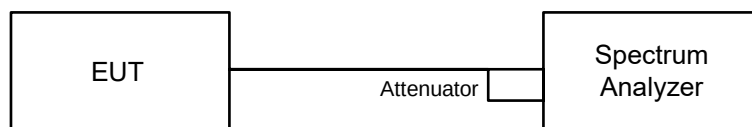
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

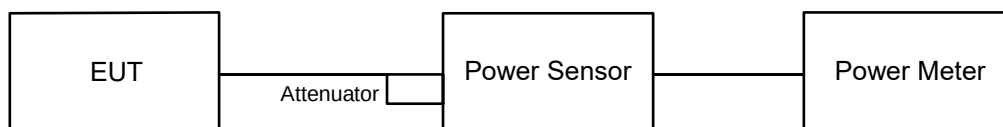


6.1.2 Test Procedure

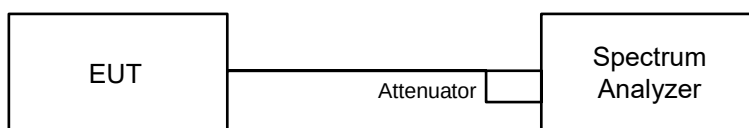
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



6.2.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

For channel straddling:

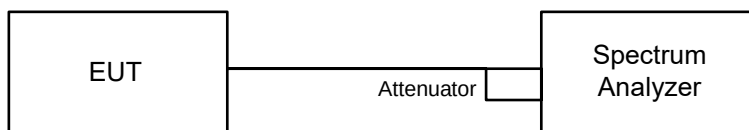
Method SA-1

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

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 $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

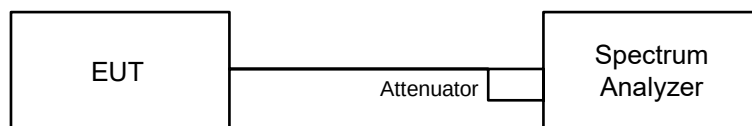
For specified measurement bandwidth 500 kHz:

Method SA-1

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

6.4 6 dB Bandwidth

6.4.1 Test Setup

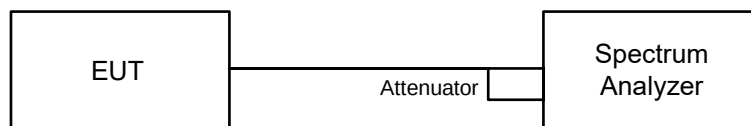


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

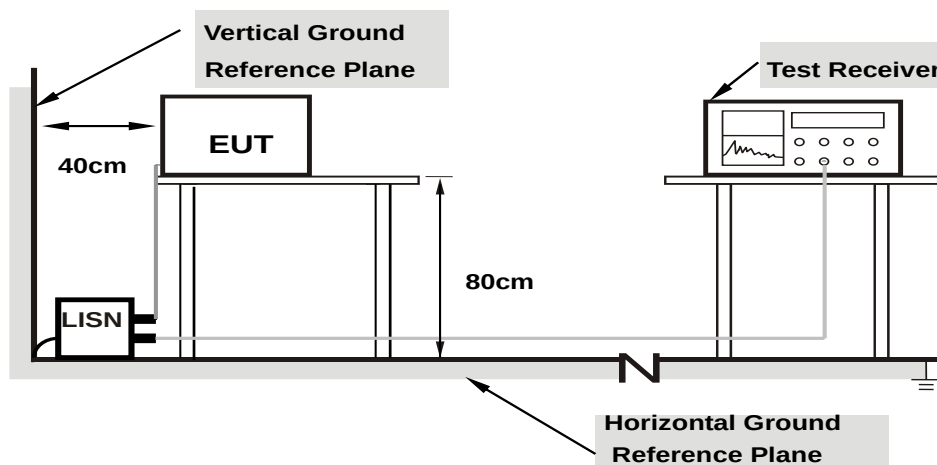


6.5.2 Test Procedure

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

6.6 AC Power Conducted Emissions

6.6.1 Test Setup



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

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

6.6.2 Test Procedure

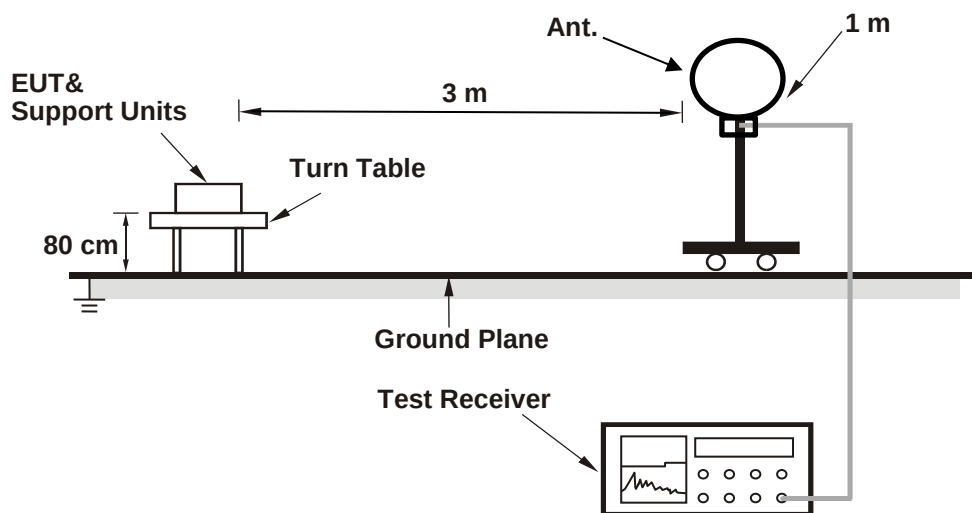
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

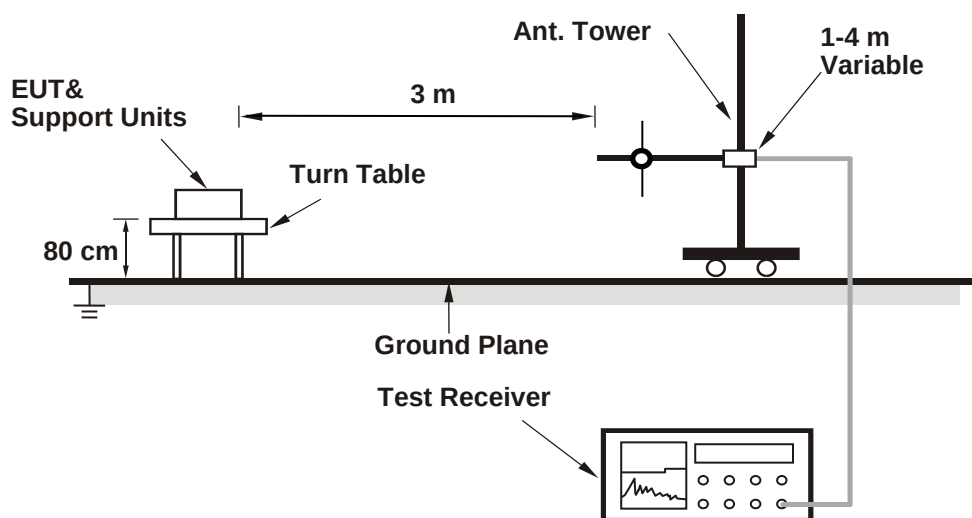
6.7 Unwanted Emissions below 1 GHz

6.7.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.7.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

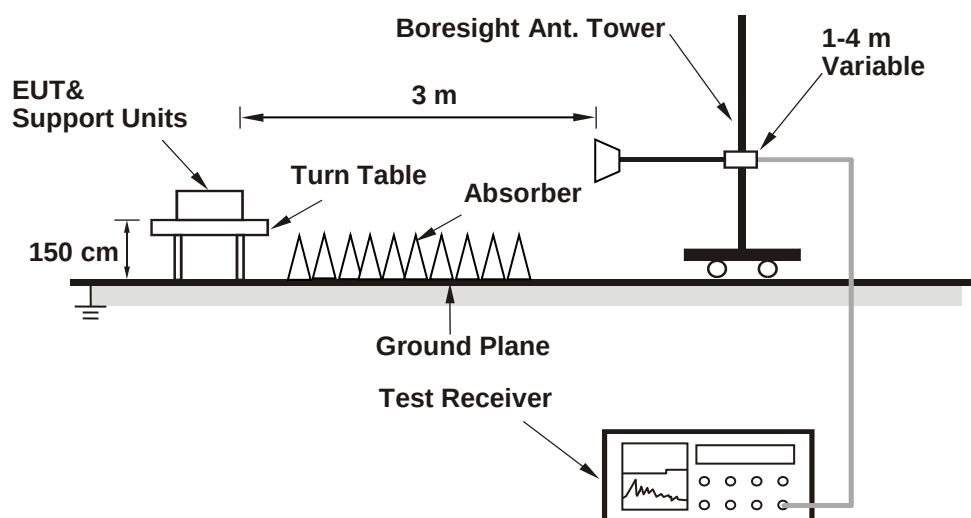
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

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

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup



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

6.8.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	56 Vdc	Environmental Conditions:	23°C, 60% RH	Tested By:	Tim-Chen
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	18.61	18.80
60	5300	18.68	18.63
64	5320	18.63	18.65
100	5500	18.57	18.77
116	5580	18.57	18.69
140	5700	18.61	18.84
144 (U-NII-2C)	5720	14.38	14.45
144 (U-NII-3)	5720	4.25	4.30

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	18.61	23.69 < 24
60	5300	18.63	23.7 < 24
64	5320	18.63	23.7 < 24
100	5500	18.57	23.68 < 24
116	5580	18.57	23.68 < 24
140	5700	18.61	23.69 < 24
144 (U-NII-2C)	5720	14.38	22.57 < 24

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

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.73	20.79
60	5300	20.59	20.81
64	5320	20.80	20.75
100	5500	20.65	20.68
116	5580	20.77	20.75
140	5700	20.66	20.68
144 (U-NII-2C)	5720	15.51	15.38
144 (U-NII-3)	5720	5.24	5.28

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.73	24.16 > 24
60	5300	20.59	24.13 > 24
64	5320	20.75	24.17 > 24
100	5500	20.65	24.14 > 24
116	5580	20.75	24.17 > 24
140	5700	20.66	24.15 > 24
144 (U-NII-2C)	5720	15.38	22.86 < 24

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

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	40.52	40.70
62	5310	40.70	40.74
102	5510	40.84	40.69
110	5550	40.58	40.66
134	5670	40.68	40.74
142 (U-NII-2C)	5710	35.43	35.65
142 (U-NII-3)	5710	5.39	5.44

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	40.52	27.07 > 24
62	5310	40.70	27.09 > 24
102	5510	40.69	27.09 > 24
110	5550	40.58	27.08 > 24
134	5670	40.68	27.09 > 24
142 (U-NII-2C)	5710	35.43	26.49 > 24

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

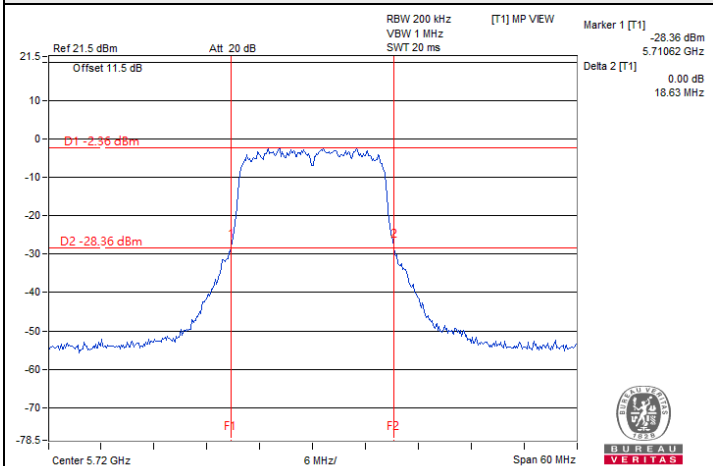
802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	82.93	82.93
106	5530	82.96	82.70
122	5610	82.65	83.16
138 (U-NII-2C)	5690	76.53	76.62
138 (U-NII-3)	5690	6.52	6.78

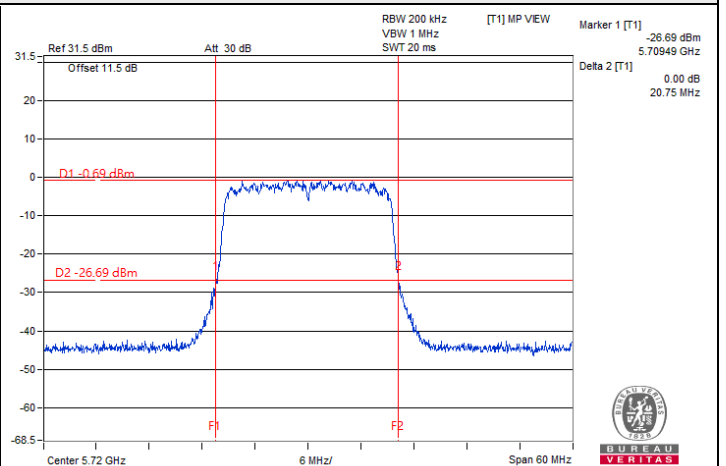
Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	82.93	30.18 > 24
106	5530	82.70	30.17 > 24
122	5610	82.65	30.17 > 24
138 (U-NII-2C)	5690	76.53	29.83 > 24

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

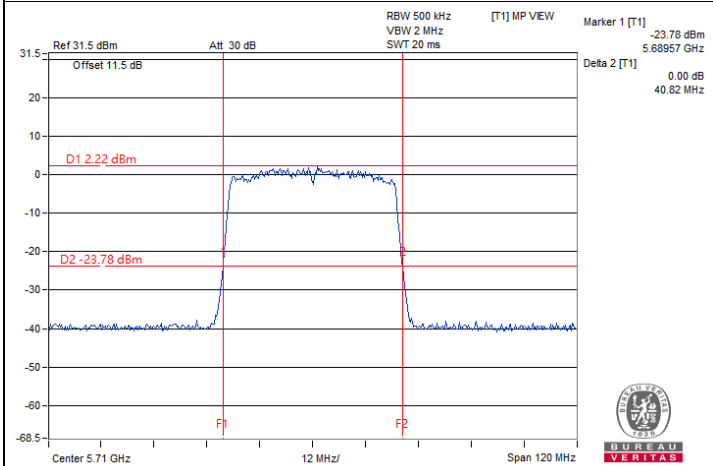
Spectrum Plot of Minimum Value



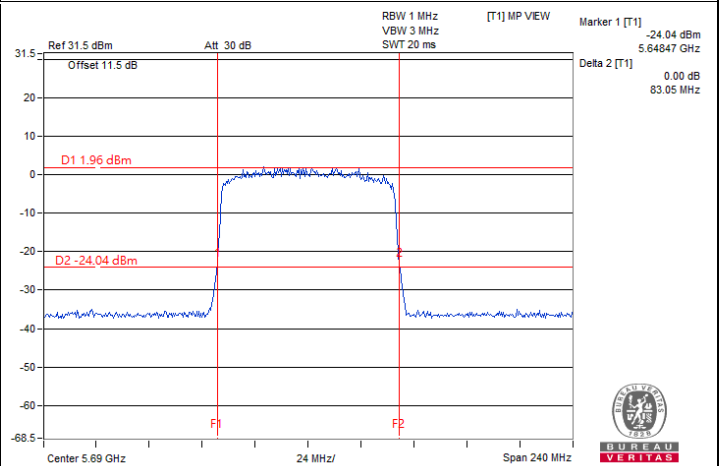
802.11a / Chain 0 : CH 144 (U-NII-3)



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



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



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

Notes:

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

7.2 RF Output Power

Input Power:	56 Vdc	Environmental Conditions:	23°C, 60% RH	Tested By:	Tim-Chen
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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	11.23	7.22	18.546	12.68	24	Pass
40	5200	11.31	7.41	19.029	12.79	24	Pass
48	5240	11.41	8.22	20.473	13.11	24	Pass
52	5260	11.36	8.13	20.179	13.05	23.69	Pass
60	5300	11.58	8.47	21.419	13.31	23.7	Pass
64	5320	11.92	8.55	22.721	13.56	23.7	Pass
100	5500	9.06	8.75	15.553	11.92	23.68	Pass
116	5580	9.02	8.43	14.946	11.75	23.68	Pass
140	5700	8.98	8.05	14.289	11.55	23.69	Pass
*144 (U-NII-2C)	5720	6.61	5.33	7.993	9.03	22.57	Pass
*144 (U-NII-3)	5720	0.07	-1.38	1.744	2.42	30	Pass
149	5745	9.33	8.37	15.441	11.89	30	Pass
157	5785	9.76	7.92	15.657	11.95	30	Pass
165	5825	10.23	6.54	15.052	11.78	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 3.03 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	11.13	6.99	17.972	12.55	24	Pass
40	5200	11.40	7.58	19.532	12.91	24	Pass
48	5240	11.36	7.73	19.607	12.92	24	Pass
52	5260	11.39	7.81	19.812	12.97	24	Pass
60	5300	11.42	8.02	20.206	13.05	24	Pass
64	5320	11.95	8.21	22.29	13.48	24	Pass
100	5500	8.94	8.74	15.316	11.85	24	Pass
116	5580	8.99	8.75	15.424	11.88	24	Pass
140	5700	9.08	8.31	14.867	11.72	24	Pass
*144 (U-NII-2C)	5720	7.14	6.74	9.897	9.96	24	Pass
*144 (U-NII-3)	5720	1.38	0.90	2.604	4.16	30	Pass
149	5745	9.14	8.36	15.058	11.78	30	Pass
157	5785	9.50	7.60	14.667	11.66	30	Pass
165	5825	10.24	6.69	15.235	11.83	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 3.03 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	11.18	6.95	18.077	12.57	24	Pass
46	5230	11.31	7.20	18.769	12.73	24	Pass
54	5270	11.36	7.51	19.314	12.86	24	Pass
62	5310	11.59	7.98	20.702	13.16	24	Pass
102	5510	8.98	8.38	14.793	11.70	24	Pass
110	5550	9.02	8.72	15.427	11.88	24	Pass
134	5670	9.26	8.09	14.875	11.72	24	Pass
*142 (U-NII-2C)	5710	8.16	7.58	12.274	10.89	24	Pass
*142 (U-NII-3)	5710	-2.83	-2.91	1.0329	0.14	30	Pass
151	5755	9.04	8.21	14.639	11.66	30	Pass
159	5795	9.77	7.56	15.186	11.81	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 3.03 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	11.16	7.01	18.085	12.57	24	Pass
40	5200	11.42	7.61	19.635	12.93	24	Pass
48	5240	11.38	7.76	19.711	12.95	24	Pass
52	5260	11.42	7.83	19.935	13.00	24	Pass
60	5300	11.45	8.04	20.332	13.08	24	Pass
64	5320	11.98	8.23	22.429	13.51	24	Pass
100	5500	8.97	8.77	15.422	11.88	24	Pass
116	5580	9.02	8.79	15.548	11.92	24	Pass
140	5700	9.12	8.34	14.989	11.76	24	Pass
*144 (U-NII-2C)	5720	7.17	6.76	9.954	9.98	24	Pass
*144 (U-NII-3)	5720	1.41	0.92	2.62	4.18	30	Pass
149	5745	9.17	8.40	15.179	11.81	30	Pass
157	5785	9.53	7.62	14.755	11.69	30	Pass
165	5825	10.27	6.72	15.34	11.86	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 3.03 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	11.20	6.98	18.171	12.59	24	Pass
46	5230	11.33	7.22	18.855	12.75	24	Pass
54	5270	11.40	7.54	19.479	12.90	24	Pass
62	5310	11.62	8.01	20.845	13.19	24	Pass
102	5510	9.01	8.42	14.912	11.74	24	Pass
110	5550	9.05	8.76	15.551	11.92	24	Pass
134	5670	9.29	8.12	14.978	11.75	24	Pass
*142 (U-NII-2C)	5710	8.18	7.61	12.344	10.91	24	Pass
*142 (U-NII-3)	5710	-2.80	-2.88	1.04	0.17	30	Pass
151	5755	9.07	8.24	14.74	11.68	30	Pass
159	5795	9.80	7.60	15.304	11.85	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 is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.03 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	11.63	7.97	20.821	13.19	24	Pass
58	5290	11.82	8.88	22.932	13.60	24	Pass
106	5530	9.13	8.59	15.412	11.88	24	Pass
122	5610	9.50	8.21	15.535	11.91	24	Pass
*138 (U-NII-2C)	5690	8.02	-7.10	6.5337	8.15	24	Pass
*138 (U-NII-3)	5690	-6.58	-7.21	0.4099	-3.87	30	Pass
155	5775	9.20	8.24	14.986	11.76	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 3.03 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	11.19	7.04	18.21	12.60	24	Pass
40	5200	11.44	7.63	19.726	12.95	24	Pass
48	5240	11.42	7.79	19.879	12.98	24	Pass
52	5260	11.46	7.86	20.105	13.03	24	Pass
60	5300	11.48	8.07	20.473	13.11	24	Pass
64	5320	12.01	8.26	22.584	13.54	24	Pass
100	5500	9.01	8.79	15.53	11.91	24	Pass
116	5580	9.06	8.82	15.675	11.95	24	Pass
140	5700	9.15	8.36	15.077	11.78	24	Pass
*144 (U-NII-2C)	5720	7.19	6.79	10.011	10.00	22.86	Pass
*144 (U-NII-3)	5720	1.44	0.94	2.635	4.21	30	Pass
149	5745	9.19	8.44	15.281	11.84	30	Pass
157	5785	9.55	7.64	14.823	11.71	30	Pass
165	5825	10.30	6.75	15.447	11.89	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 3.03 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	11.22	7.02	18.278	12.62	24	Pass
46	5230	11.35	7.26	18.967	12.78	24	Pass
54	5270	11.43	7.57	19.614	12.93	24	Pass
62	5310	11.65	8.03	20.975	13.22	24	Pass
102	5510	9.03	8.75	15.497	11.90	24	Pass
110	5550	9.08	8.79	15.659	11.95	24	Pass
134	5670	9.32	8.14	15.067	11.78	24	Pass
*142 (U-NII-2C)	5710	8.20	7.64	12.415	10.94	24	Pass
*142 (U-NII-3)	5710	-2.78	-2.86	1.0448	0.19	30	Pass
151	5755	9.11	8.28	14.877	11.73	30	Pass
159	5795	9.83	7.62	15.397	11.87	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 3.03 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

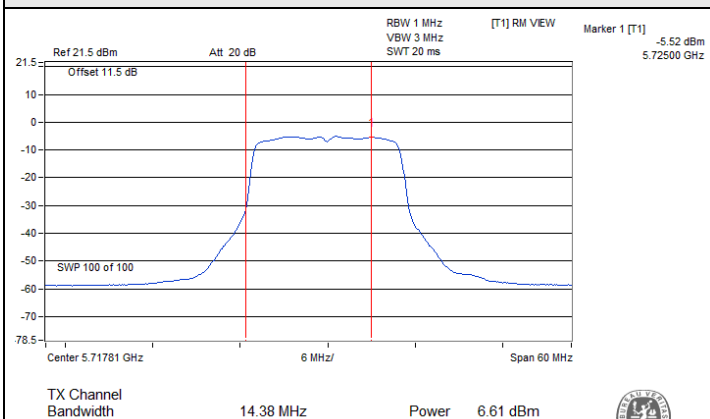
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	11.66	7.99	20.951	13.21	24	Pass
58	5290	11.86	8.91	23.127	13.64	24	Pass
106	5530	9.17	8.62	15.538	11.91	24	Pass
122	5610	9.52	8.24	15.622	11.94	24	Pass
*138 (U-NII-2C)	5690	8.04	7.12	11.52	10.61	24	Pass
*138 (U-NII-3)	5690	-6.56	-7.18	0.4122	-3.85	30	Pass
155	5775	9.23	8.27	15.09	11.79	30	Pass

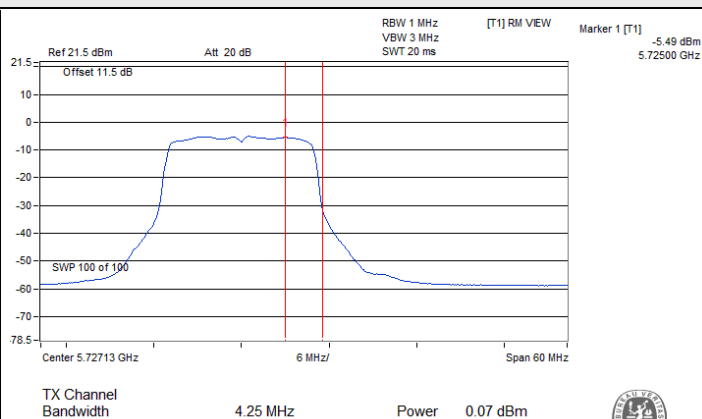
Notes:

- * : 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 3.03 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

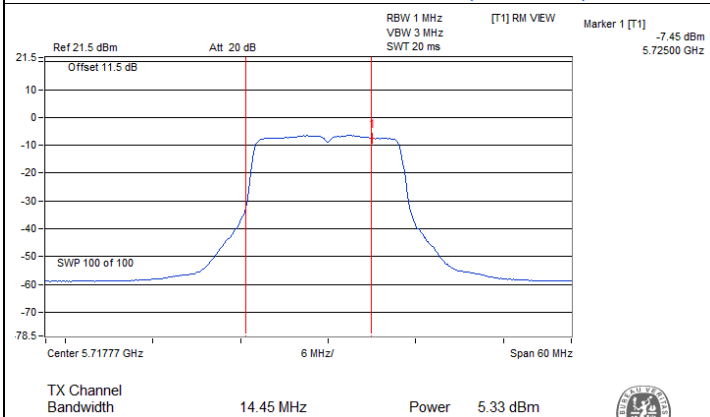
Spectrum Plot for channel straddling



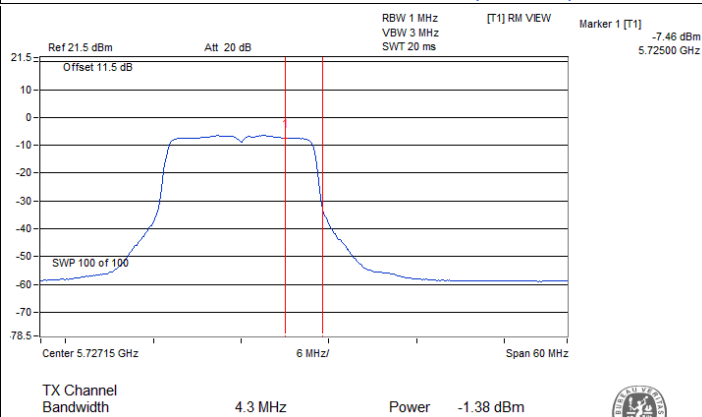
802.11a / Chain 0 : CH 144 (U-NII-2C)



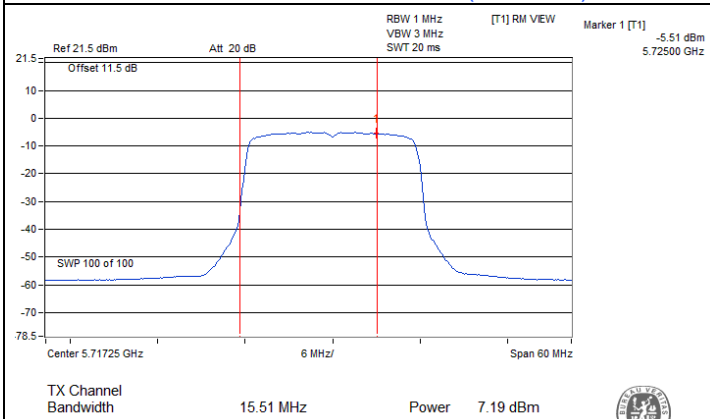
802.11a / Chain 0 : CH 144 (U-NII-3)



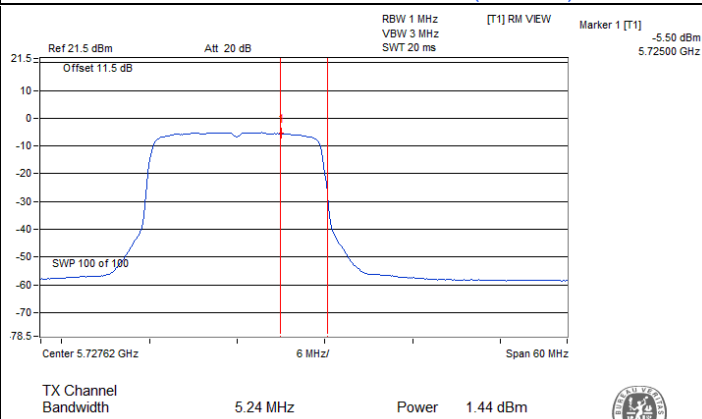
802.11a / Chain 1 : CH 144 (U-NII-2C)



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

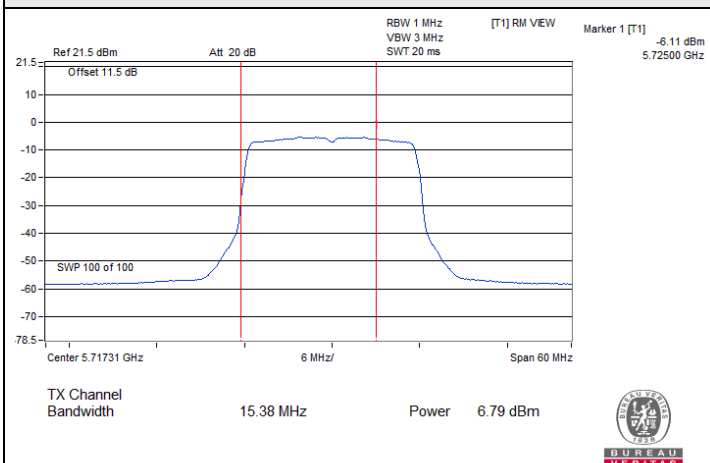


802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)

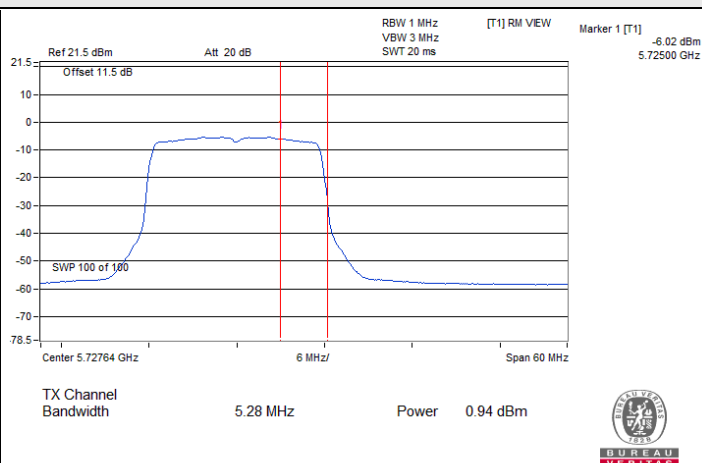


802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)

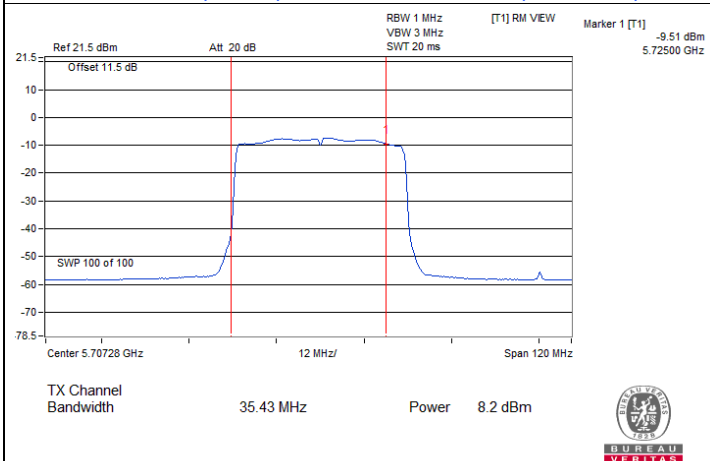
Spectrum Plot for channel straddling



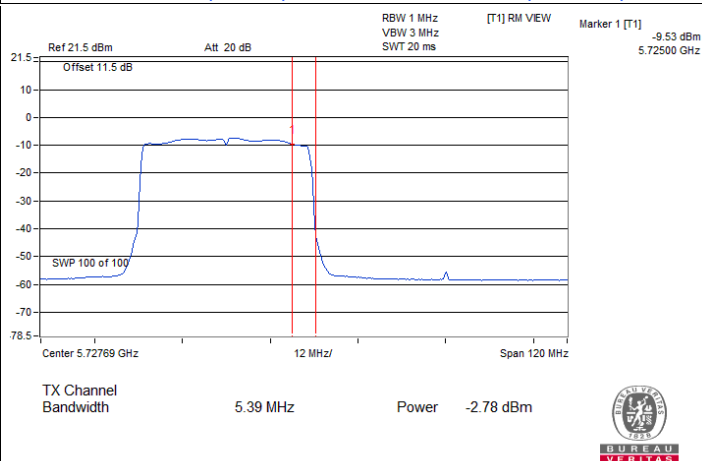
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)



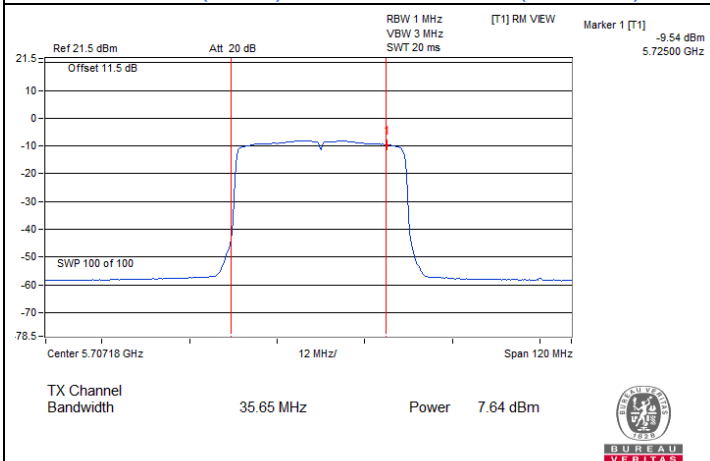
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)



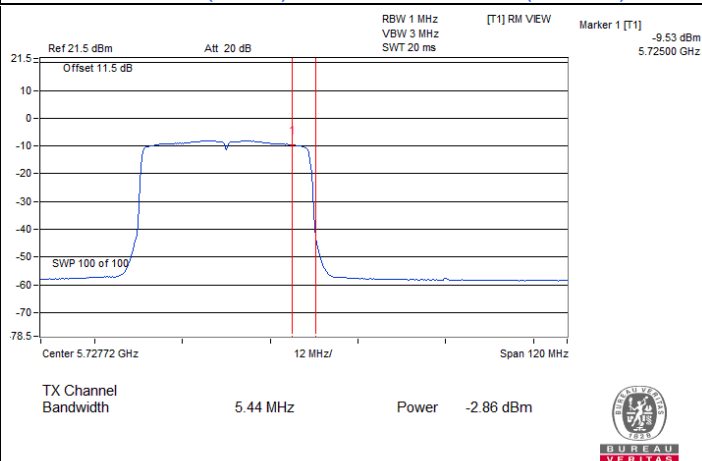
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)



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

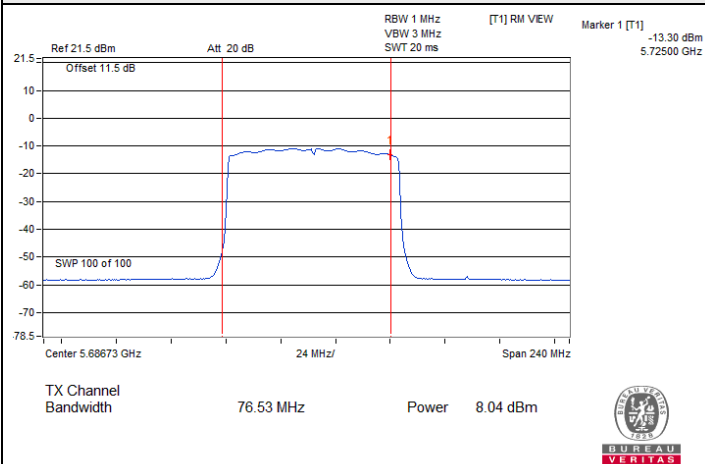


802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)

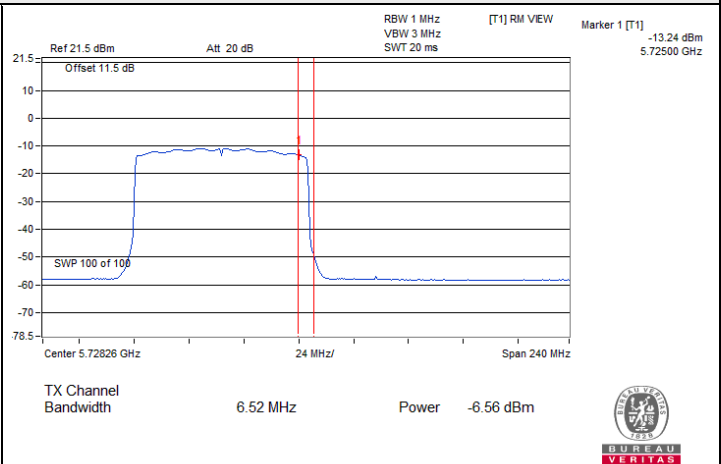


802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)

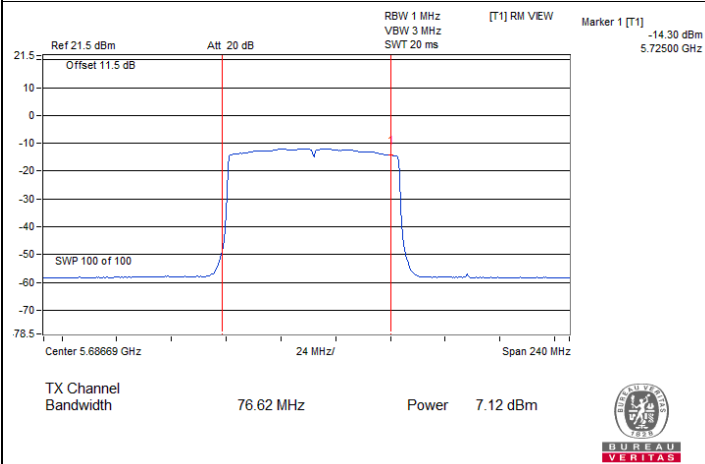
Spectrum Plot for channel straddling



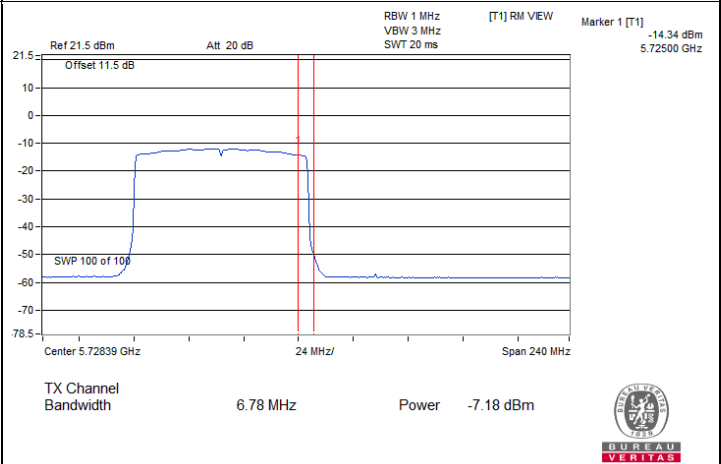
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



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



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



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

7.3 Power Spectral Density

Input Power:	56 Vdc	Environmental Conditions:	23°C, 60% RH	Tested By:	Tim-Chen
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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	-2.71	-8.38	-1.67	11	Pass
40	5200	-2.58	-7.86	-1.45	11	Pass
48	5240	-2.47	-7.09	-1.18	11	Pass
52	5260	-2.49	-7.25	-1.24	10.92	Pass
60	5300	-2.42	-7.26	-1.19	10.92	Pass
64	5320	-2.13	-7.33	-0.98	10.92	Pass
100	5500	-4.22	-7.03	-2.39	10.86	Pass
116	5580	-4.48	-8.16	-2.93	10.86	Pass
140	5700	-5.34	-7.35	-3.22	10.86	Pass
144 (U-NII-2C)	5720	-5.10	-6.84	-2.87	10.86	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.08 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.08 - 6) = 10.92$ dBm/MHz.
5. For U-NII-2C, the directional gain is 6.14 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.14 - 6) = 10.86$ dBm/MHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	-3.17	-7.03	-1.67	11	Pass
40	5200	-2.61	-6.40	-1.09	11	Pass
48	5240	-3.01	-6.56	-1.42	11	Pass
52	5260	-3.00	-6.04	-1.25	10.92	Pass
60	5300	-2.72	-5.64	-0.93	10.92	Pass
64	5320	-2.36	-5.54	-0.65	10.92	Pass
100	5500	-4.84	-5.15	-1.98	10.86	Pass
116	5580	-4.72	-5.34	-2.01	10.86	Pass
140	5700	-4.84	-5.08	-1.95	10.86	Pass
144 (U-NII-2C)	5720	-5.22	-5.51	-2.35	10.86	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 5.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 6.08 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.08 - 6) = 10.92$ dBm/MHz.
- For U-NII-2C, the directional gain is 6.14 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.14 - 6) = 10.86$ dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	-5.44	-9.74	-4.07	11	Pass
46	5230	-5.53	-9.55	-4.08	11	Pass
54	5270	-5.43	-8.82	-3.79	10.92	Pass
62	5310	-5.06	-8.54	-3.45	10.92	Pass
102	5510	-7.48	-7.13	-4.29	10.86	Pass
110	5550	-7.04	-7.69	-4.34	10.86	Pass
134	5670	-6.97	-8.08	-4.48	10.86	Pass
142 (U-NII-2C)	5710	-7.37	-8.47	-4.87	10.86	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.08 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.08 - 6) = 10.92$ dBm/MHz.
5. For U-NII-2C, the directional gain is 6.14 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.14 - 6) = 10.86$ dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	-7.84	-11.93	-6.41	11	Pass
58	5290	-7.75	-11.24	-6.14	10.92	Pass
106	5530	-9.97	-10.60	-7.26	10.86	Pass
122	5610	-9.73	-10.40	-7.04	10.86	Pass
138 (U-NII-2C)	5690	-10.87	-11.82	-8.31	10.86	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.08 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.08 - 6) = 10.92$ dBm/MHz.
5. For U-NII-2C, the directional gain is 6.14 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.14 - 6) = 10.86$ dBm/MHz.

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	-13.69	-15.74	-11.58	-9.36	29.95	Pass
149	5745	-13.05	-14.88	-10.86	-8.64	29.95	Pass
157	5785	-12.29	-14.62	-10.29	-8.07	29.95	Pass
165	5825	-11.91	-16.21	-10.54	-8.32	29.95	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 6.05 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.05 - 6) = 29.95$ dBm/500kHz.

802.11ax (HE20)

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	-14.52	-14.95	-11.72	-9.50	29.95	Pass
149	5745	-13.71	-13.80	-10.74	-8.52	29.95	Pass
157	5785	-13.54	-13.40	-10.46	-8.24	29.95	Pass
165	5825	-12.55	-13.33	-9.91	-7.69	29.95	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 6.05 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.05 - 6) = 29.95$ dBm/500kHz.

802.11ax (HE40)

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	-18.60	-18.74	-15.66	-13.44	29.95	Pass
151	5755	-16.07	-17.47	-13.7	-11.48	29.95	Pass
159	5795	-15.58	-16.99	-13.22	-11.00	29.95	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 6.05 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.05 - 6) = 29.95$ dBm/500kHz.

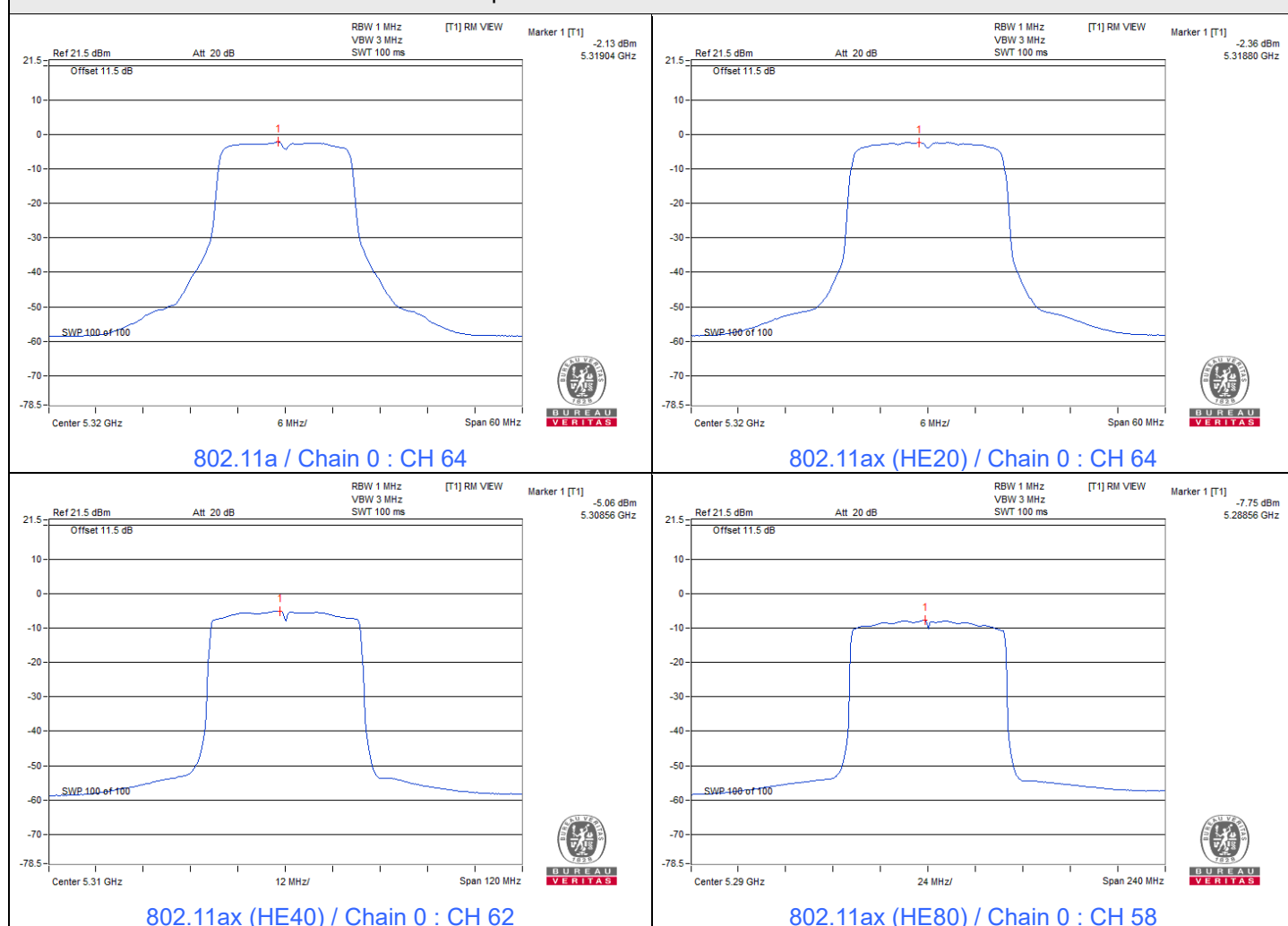
802.11ax (HE80)

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	-22.45	-22.95	-19.68	-17.46	29.95	Pass
155	5775	-19.76	-20.35	-17.03	-14.81	29.95	Pass

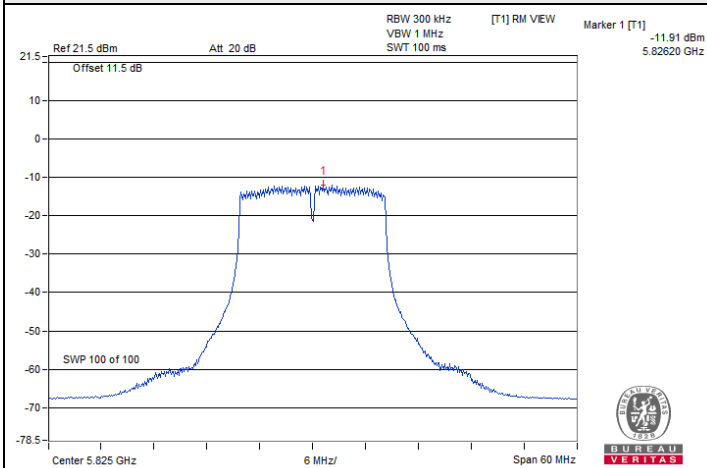
Notes:

- 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 6.05 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.05 - 6) = 29.95 \text{ dBm/500kHz}$.

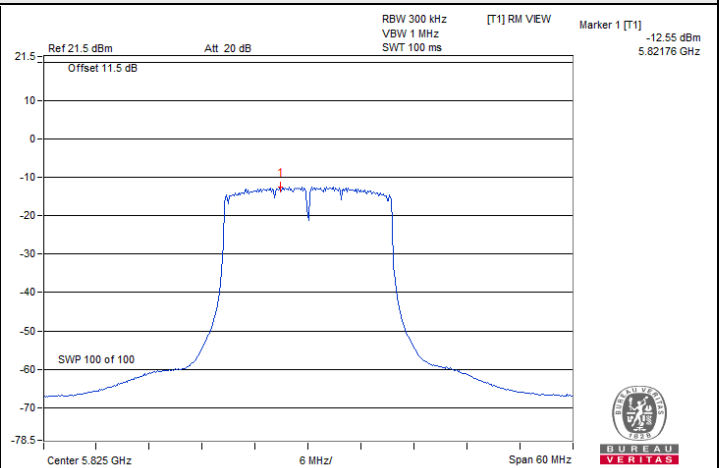
Spectrum Plot of Maximum Value



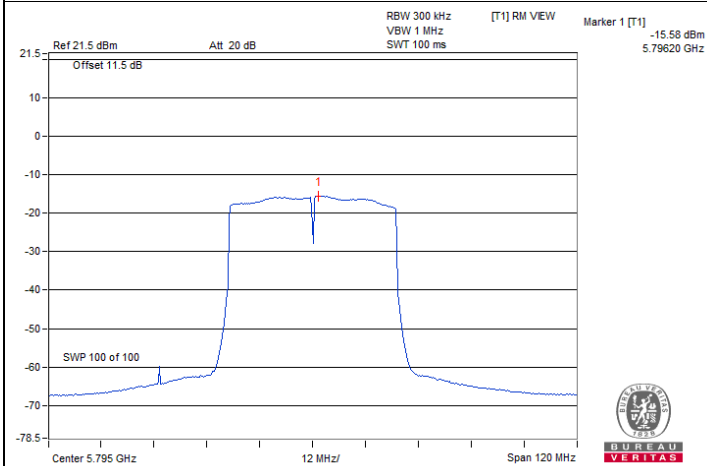
Spectrum Plot of Maximum Value



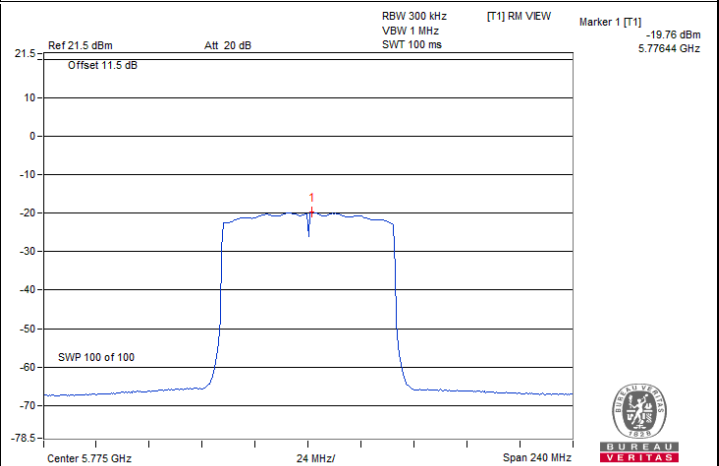
802.11a / Chain 0 : CH 165



802.11ax (HE20) / Chain 0 : CH 165



802.11ax (HE40) / Chain 0 : CH 159



802.11ax (HE80) / Chain 0 : CH 155

7.4 6 dB Bandwidth

Input Power:	56 Vdc	Environmental Conditions:	23°C, 60% RH	Tested By:	Tim-Chen
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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	2.82	3.18	0.5	Pass
149	5745	16.06	16.46	0.5	Pass
157	5785	16.07	16.46	0.5	Pass
165	5825	16.10	16.46	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	4.34	4.49	0.5	Pass
149	5745	19.03	19.08	0.5	Pass
157	5785	18.98	19.09	0.5	Pass
165	5825	18.93	19.11	0.5	Pass

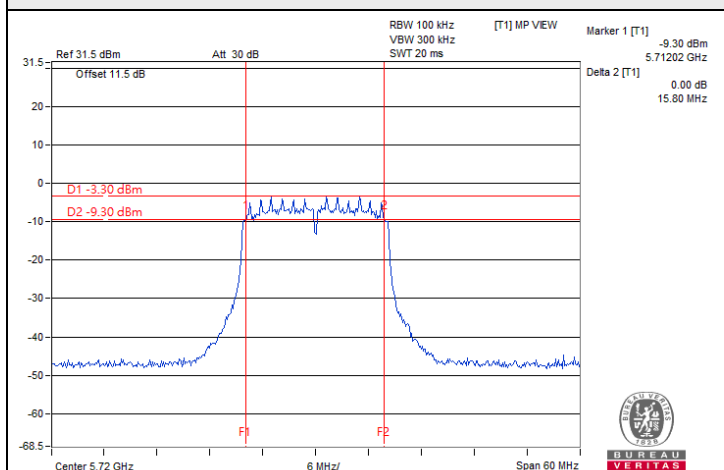
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	3.24	3.14	0.5	Pass
151	5755	37.48	37.54	0.5	Pass
159	5795	38.01	37.52	0.5	Pass

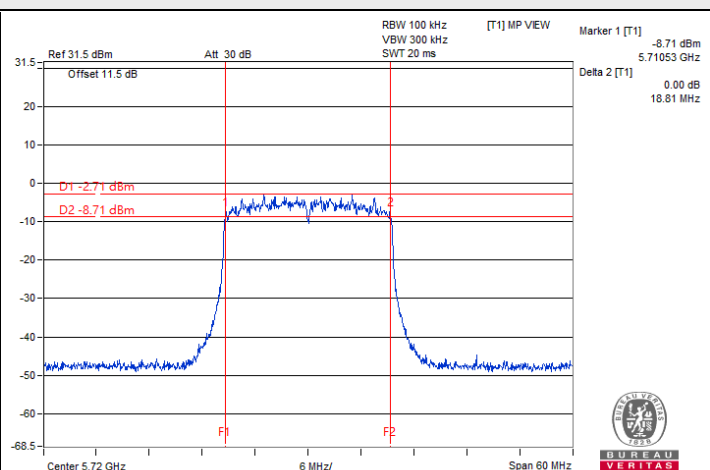
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	2.65	2.88	0.5	Pass
155	5775	77.86	77.42	0.5	Pass

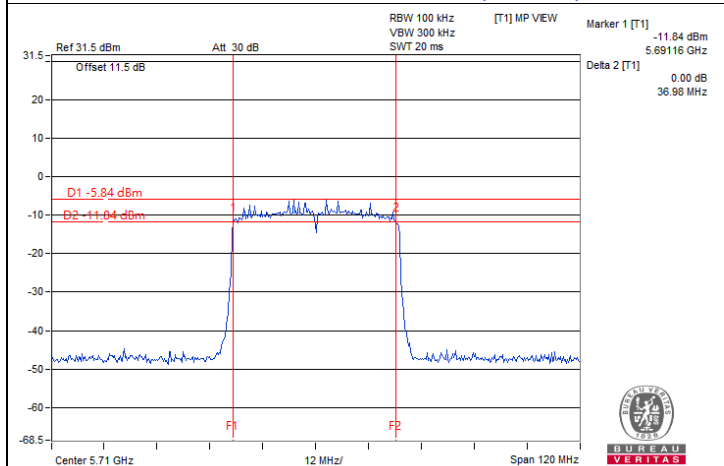
Spectrum Plot of Minimum Value



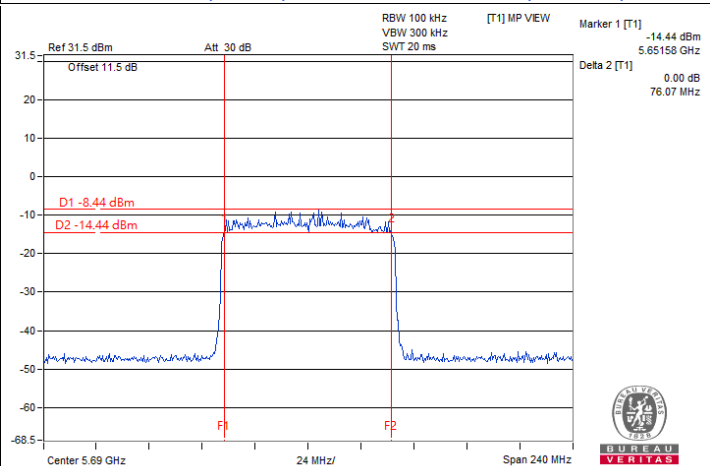
802.11a / Chain 0 : CH 144 (U-NII-3)



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



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



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

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

7.5 Occupied Bandwidth

Input Power:	56 Vdc	Environmental Conditions:	23°C, 60% RH	Tested By:	Tim-Chen
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.32
40	5200	16.32	16.32
48	5240	16.32	16.32
52	5260	16.32	16.32
60	5300	16.32	16.32
64	5320	16.32	16.32
100	5500	16.32	16.44
116	5580	16.32	16.44
140	5700	16.32	16.44
144 (U-NII-2C)	5720	13.28	13.28
144 (U-NII-3)	5720	3.04	3.16
149	5745	16.32	16.32
157	5785	16.32	16.44
165	5825	16.32	16.44

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.84	18.84
40	5200	18.84	18.84
48	5240	18.84	18.84
52	5260	18.84	18.84
60	5300	18.84	18.84
64	5320	18.84	18.84
100	5500	18.84	18.84
116	5580	18.96	18.84
140	5700	18.84	18.84
144 (U-NII-2C)	5720	14.48	14.48
144 (U-NII-3)	5720	4.36	4.36
149	5745	18.84	18.84
157	5785	18.84	18.84
165	5825	18.84	18.84

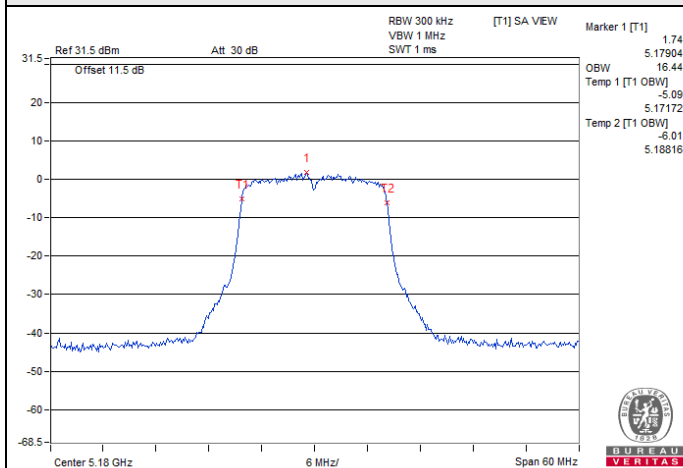
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	38.16	38.16
46	5230	37.92	37.92
54	5270	37.68	37.92
62	5310	37.92	37.92
102	5510	37.92	37.68
110	5550	38.16	37.68
134	5670	37.68	37.68
142 (U-NII-2C)	5710	34.20	33.96
142 (U-NII-3)	5710	3.72	3.72
151	5755	38.16	37.68
159	5795	37.68	37.92

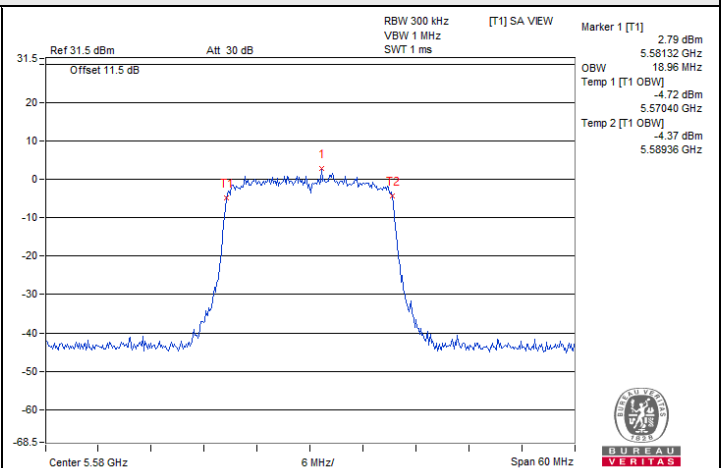
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
58	5290	77.28	77.28
106	5530	77.28	77.28
122	5610	77.28	77.28
138 (U-NII-2C)	5690	73.88	73.88
138 (U-NII-3)	5690	3.40	3.40
155	5775	77.28	77.28

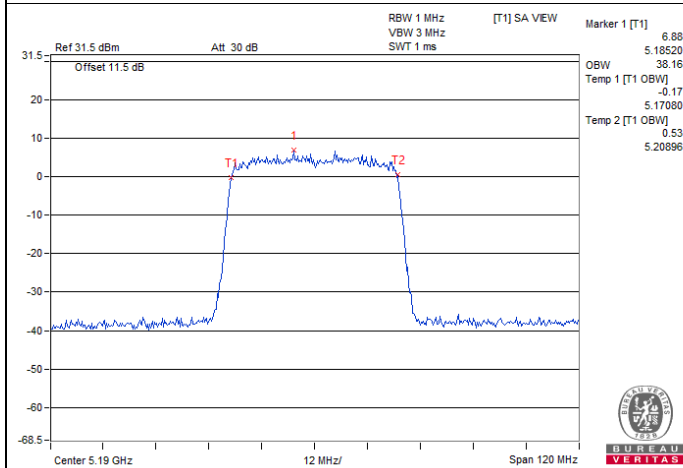
Spectrum Plot of Maximum Value



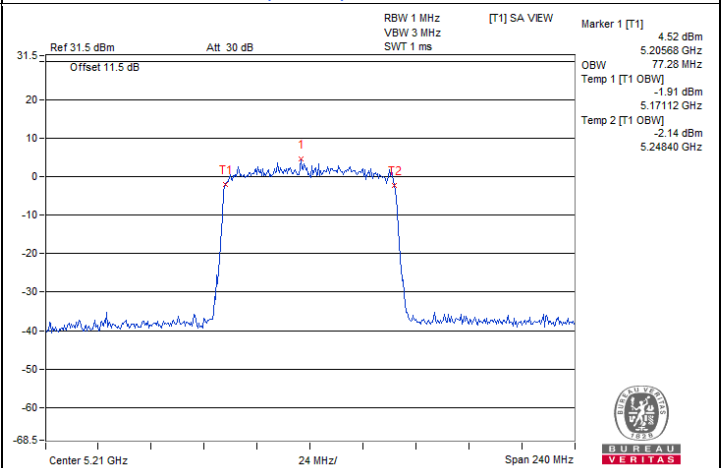
802.11a / Chain 0 : CH 36



802.11ax (HE20) / Chain 0 : CH 116

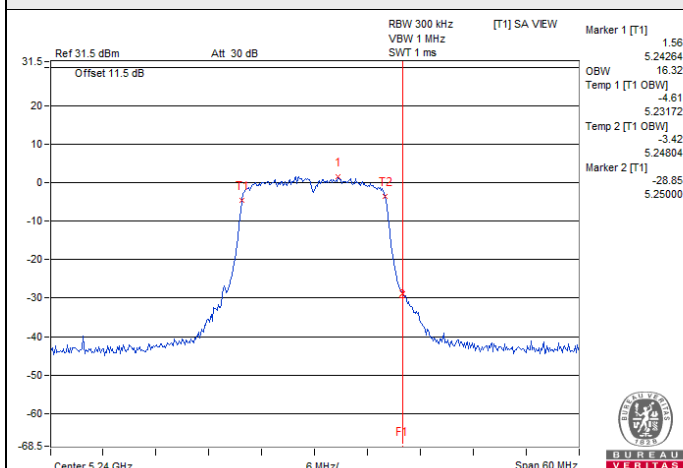


802.11ax (HE40) / Chain 0 : CH 38

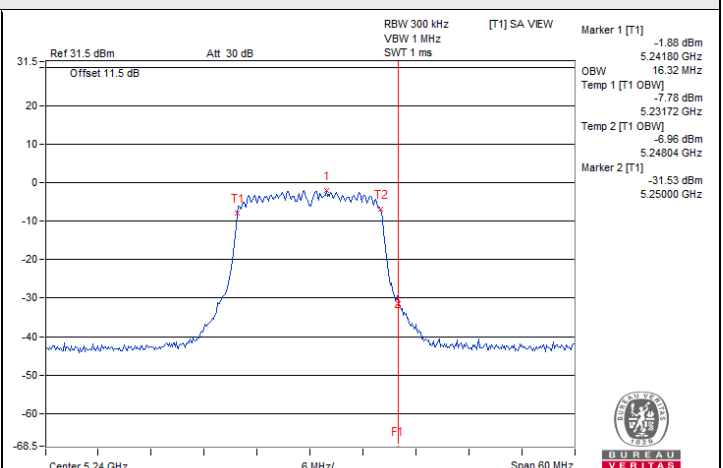


802.11ax (HE80) / Chain 0 : CH 42

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

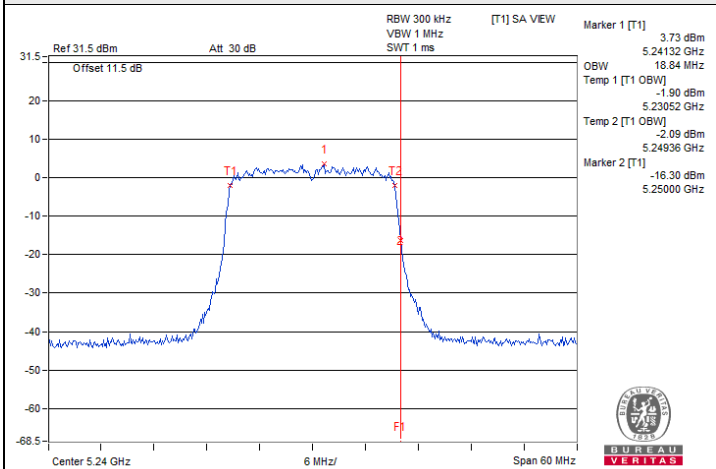


802.11a / Chain 0 : CH 48

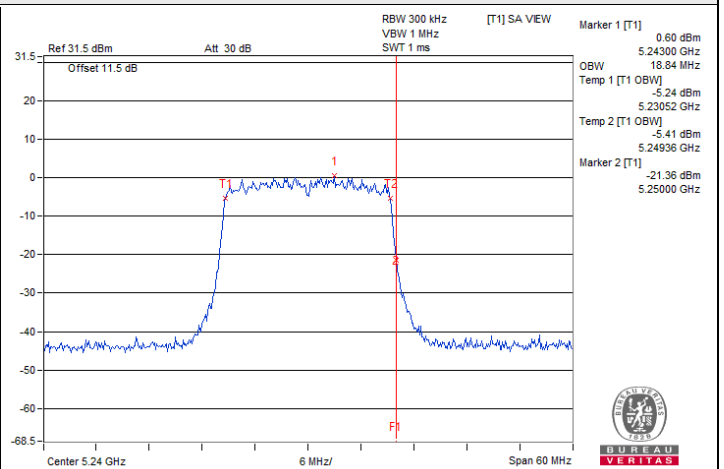


802.11a / Chain 1 : CH 48

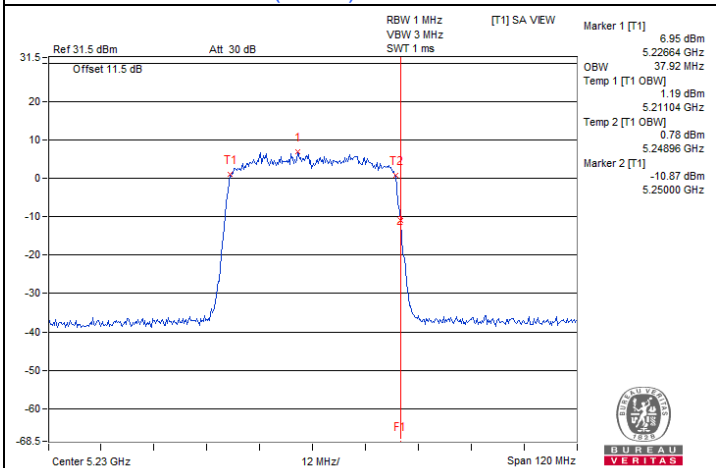
**Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)**



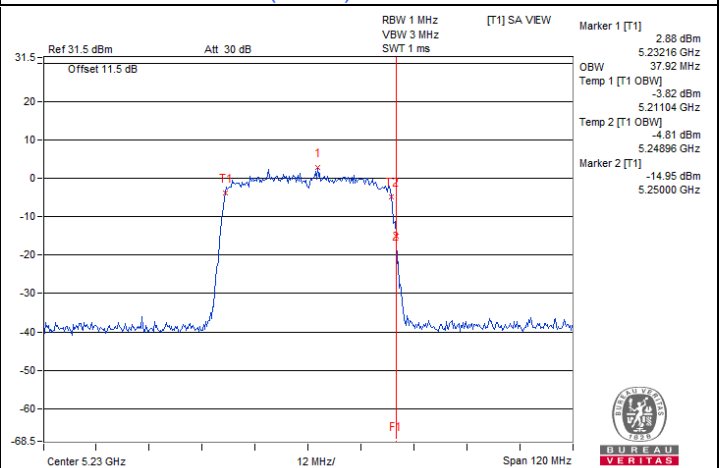
802.11ax (HE20) / Chain 0 : CH 48



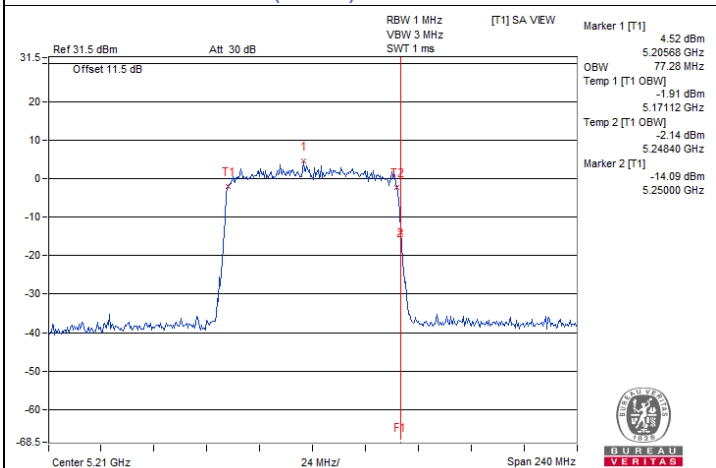
802.11ax (HE20) / Chain 1 : CH 48



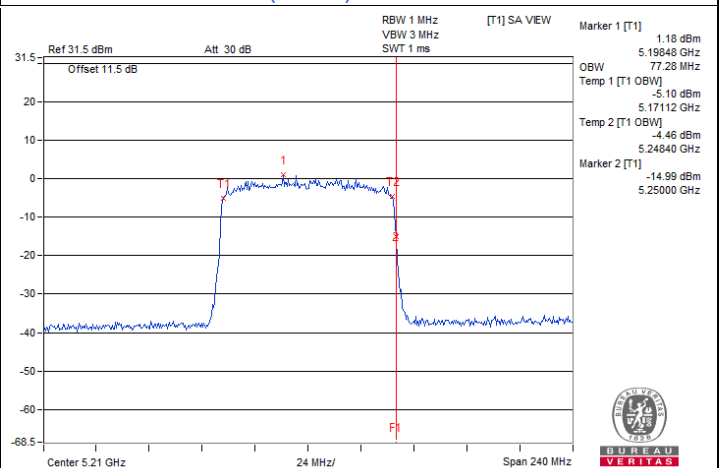
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46

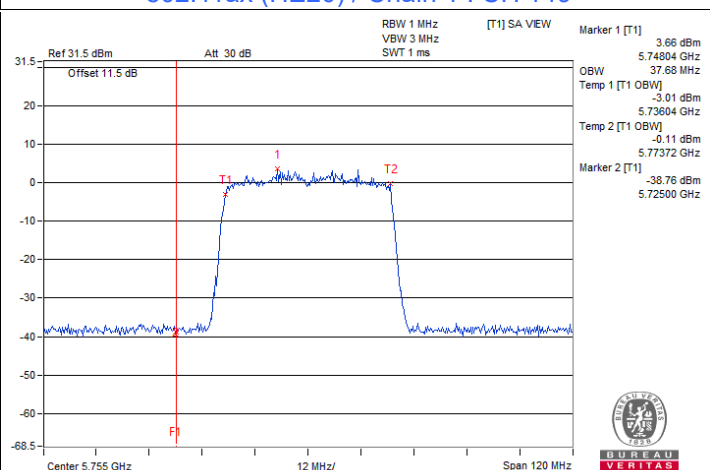
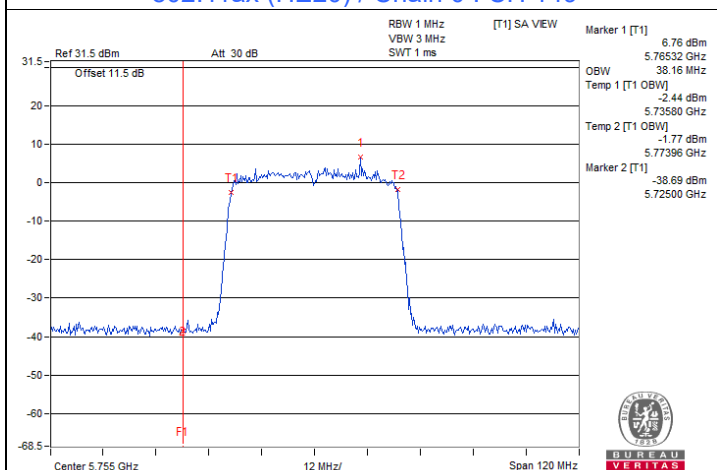
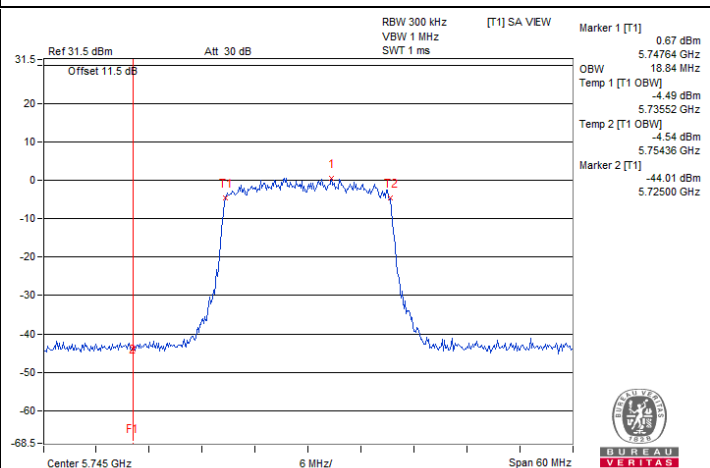
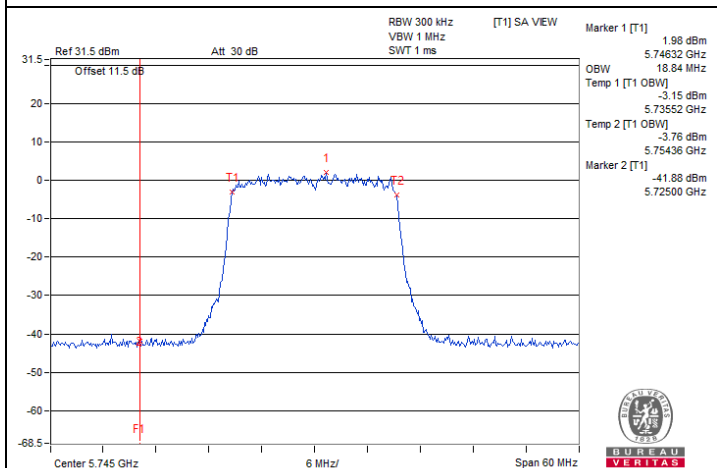
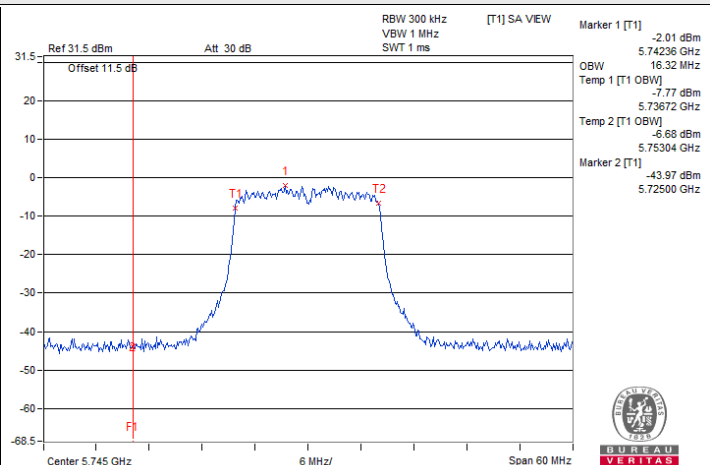
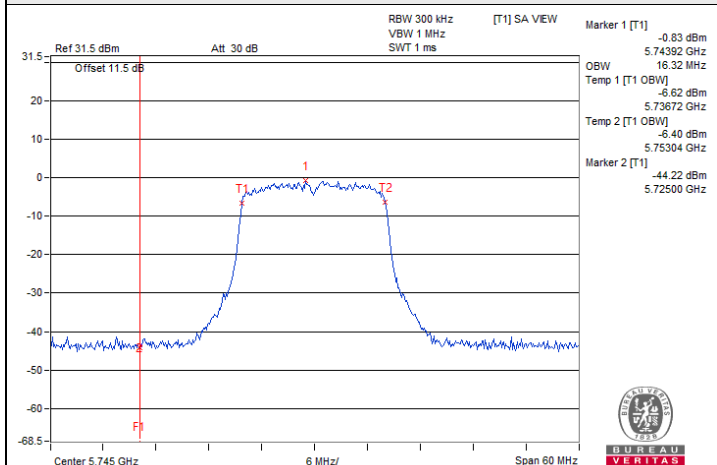


802.11ax (HE80) / Chain 0 : CH 42

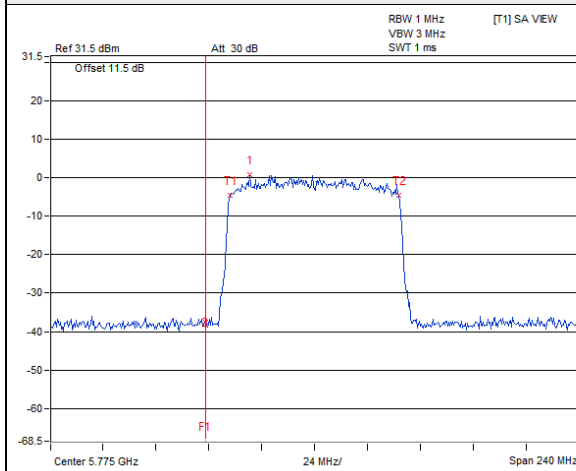


802.11ax (HE80) / Chain 1 : CH 42

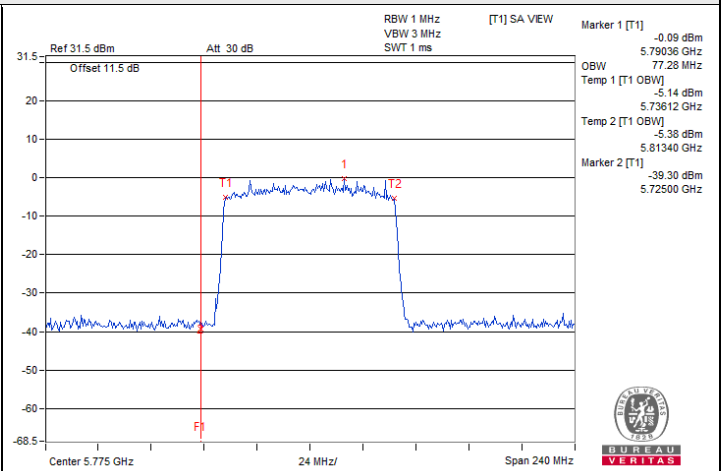
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



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



802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155

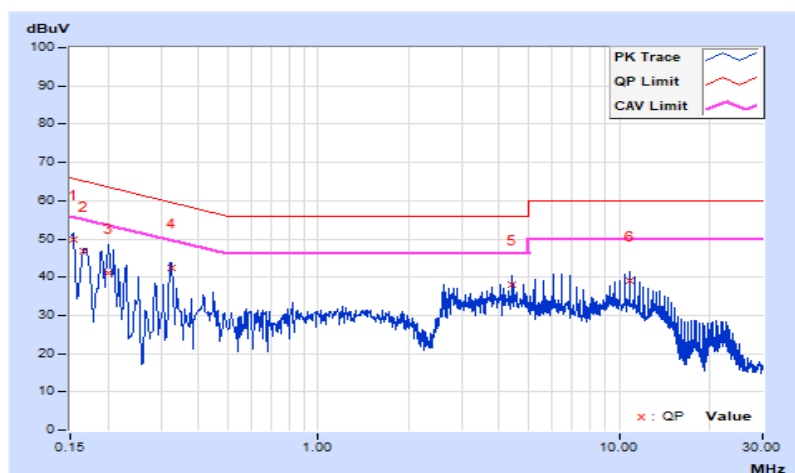
7.6 AC Power Conducted Emissions

RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	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	0.15400	10.25	39.71	25.71	49.96	35.96	65.78	55.78	-15.82	-19.82
2	0.16600	10.25	36.65	25.62	46.90	35.87	65.16	55.16	-18.26	-19.29
3	0.20200	10.27	30.96	21.18	41.23	31.45	63.53	53.53	-22.30	-22.08
4	0.32373	10.28	32.21	27.38	42.49	37.66	59.61	49.61	-17.12	-11.95
5	4.43000	10.42	27.64	24.08	38.06	34.50	56.00	46.00	-17.94	-11.50
6	10.87800	10.45	28.52	26.26	38.97	36.71	60.00	50.00	-21.03	-13.29

Remarks:

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

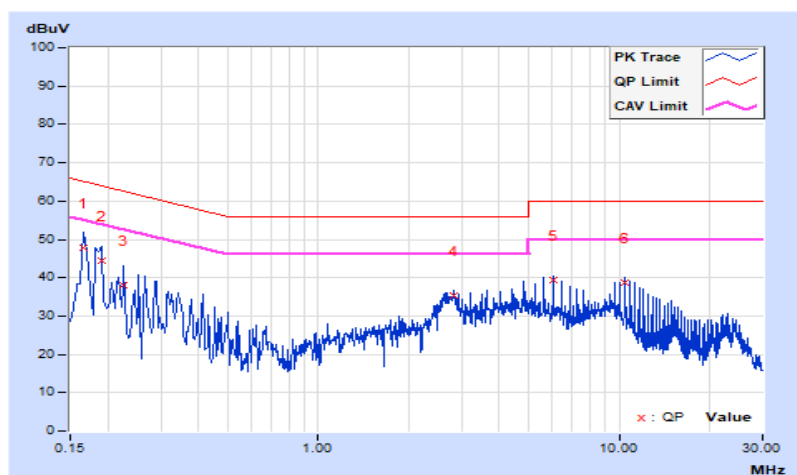


RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

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	0.16600	10.30	37.61	23.38	47.91	33.68	65.16	55.16	-17.25	-21.48
2	0.19000	10.30	34.26	18.24	44.56	28.54	64.04	54.04	-19.48	-25.50
3	0.22600	10.30	27.60	12.32	37.90	22.62	62.60	52.60	-24.70	-29.98
4	2.82200	10.43	24.83	19.81	35.26	30.24	56.00	46.00	-20.74	-15.76
5	6.04200	10.50	28.80	26.89	39.30	37.39	60.00	50.00	-20.70	-12.61
6	10.47400	10.56	28.14	26.81	38.70	37.37	60.00	50.00	-21.30	-12.63

Remarks:

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



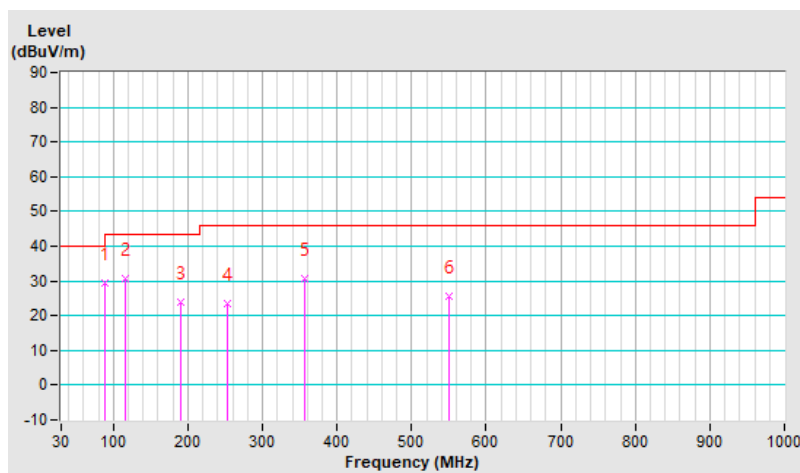
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	88.20	29.5 QP	43.5	-14.0	1.51 H	49	48.3	-18.8
2	115.36	30.5 QP	43.5	-13.0	2.51 H	210	45.8	-15.3
3	191.02	23.8 QP	43.5	-19.7	1.49 H	216	39.5	-15.7
4	253.10	23.6 QP	46.0	-22.4	1.70 H	163	37.5	-13.9
5	356.89	30.7 QP	46.0	-15.3	2.23 H	251	41.3	-10.6
6	550.89	25.4 QP	46.0	-20.6	1.88 H	221	31.6	-6.2

Remarks:

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

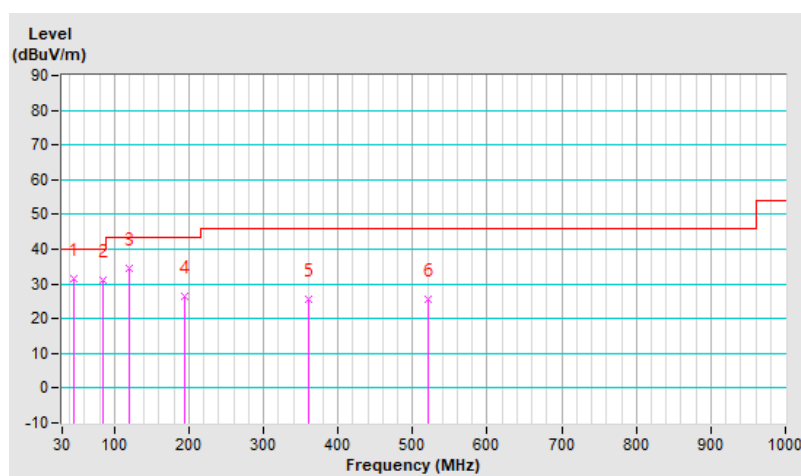


RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	46.49	31.4 QP	40.0	-8.6	2.05 V	145	44.4	-13.0
2	85.29	31.3 QP	40.0	-8.7	1.14 V	163	50.1	-18.8
3	119.24	34.7 QP	43.5	-8.8	1.98 V	152	49.7	-15.0
4	193.93	26.3 QP	43.5	-17.2	2.26 V	140	42.3	-16.0
5	359.80	25.4 QP	46.0	-20.6	1.75 V	112	36.0	-10.6
6	520.82	25.6 QP	46.0	-20.4	1.36 V	240	32.5	-6.9

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.8 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.0 PK	74.0	-15.0	1.72 H	51	56.4	2.6
2	5150.00	45.9 AV	54.0	-8.1	1.72 H	51	43.3	2.6
3	*5180.00	101.2 PK			1.72 H	51	61.0	40.2
4	*5180.00	89.6 AV			1.72 H	51	49.4	40.2
5	#10360.00	59.4 PK	68.2	-8.8	2.21 H	143	50.6	8.8
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	58.4 PK	74.0	-15.6	2.00 V	295	55.8	2.6
2	5150.00	46.0 AV	54.0	-8.0	2.00 V	295	43.4	2.6
3	*5180.00	110.1 PK			2.00 V	295	69.9	40.2
4	*5180.00	99.9 AV			2.00 V	295	59.7	40.2
5	#10360.00	59.7 PK	68.2	-8.5	1.85 V	247	50.9	8.8

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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	101.6 PK			1.74 H	62	61.4	40.2
2	*5200.00	89.9 AV			1.74 H	62	49.7	40.2
3	#10400.00	59.1 PK	68.2	-9.1	2.21 H	146	50.2	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	110.4 PK			2.00 V	302	70.2	40.2
2	*5200.00	100.2 AV			2.00 V	302	60.0	40.2
3	#10400.00	59.6 PK	68.2	-8.6	1.87 V	238	50.7	8.9

Remarks:

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

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	101.7 PK			1.69 H	65	61.6	40.1
2	*5240.00	90.4 AV			1.69 H	65	50.3	40.1
3	5350.00	57.1 PK	74.0	-16.9	1.69 H	65	54.8	2.3
4	5350.00	44.8 AV	54.0	-9.2	1.69 H	65	42.5	2.3
5	#10480.00	58.8 PK	68.2	-9.4	2.03 H	147	49.8	9.0
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	*5240.00	111.2 PK			2.18 V	296	71.1	40.1
2	*5240.00	100.6 AV			2.18 V	296	60.5	40.1
3	5350.00	57.7 PK	74.0	-16.3	2.18 V	296	55.4	2.3
4	5350.00	45.1 AV	54.0	-8.9	2.18 V	296	42.8	2.3
5	#10480.00	59.7 PK	68.2	-8.5	1.94 V	245	50.7	9.0

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 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.2 PK	74.0	-14.8	1.72 H	51	56.6	2.6
2	5150.00	45.9 AV	54.0	-8.1	1.72 H	51	43.3	2.6
3	*5180.00	103.1 PK			1.72 H	51	62.9	40.2
4	*5180.00	89.3 AV			1.72 H	51	49.1	40.2
5	#10360.00	59.0 PK	68.2	-9.2	2.21 H	143	50.2	8.8
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	58.8 PK	74.0	-15.2	2.00 V	295	56.2	2.6
2	5150.00	46.0 AV	54.0	-8.0	2.00 V	295	43.4	2.6
3	*5180.00	113.0 PK			2.00 V	295	72.8	40.2
4	*5180.00	99.8 AV			2.00 V	295	59.6	40.2
5	#10360.00	59.3 PK	68.2	-8.9	1.85 V	247	50.5	8.8

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 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	103.8 PK			1.74 H	62	63.6	40.2
2	*5200.00	90.0 AV			1.74 H	62	49.8	40.2
3	#10400.00	59.2 PK	68.2	-9.0	2.21 H	146	50.3	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	113.6 PK			2.00 V	302	73.4	40.2
2	*5200.00	100.5 AV			2.00 V	302	60.3	40.2
3	#10400.00	59.6 PK	68.2	-8.6	1.87 V	238	50.7	8.9

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	104.1 PK			1.69 H	65	64.0	40.1
2	*5240.00	90.3 AV			1.69 H	65	50.2	40.1
3	5350.00	58.0 PK	74.0	-16.0	1.69 H	65	55.7	2.3
4	5350.00	45.1 AV	54.0	-8.9	1.69 H	65	42.8	2.3
5	#10480.00	59.3 PK	68.2	-8.9	2.03 H	147	50.3	9.0
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	*5240.00	113.8 PK			2.18 V	296	73.7	40.1
2	*5240.00	100.8 AV			2.18 V	296	60.7	40.1
3	5350.00	57.8 PK	74.0	-16.2	2.18 V	296	55.5	2.3
4	5350.00	45.0 AV	54.0	-9.0	2.18 V	296	42.7	2.3
5	#10480.00	59.8 PK	68.2	-8.4	1.94 V	245	50.8	9.0

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 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.1 PK	74.0	-14.9	1.72 H	51	56.5	2.6
2	5150.00	45.9 AV	54.0	-8.1	1.72 H	51	43.3	2.6
3	*5190.00	100.8 PK			1.72 H	51	60.5	40.3
4	*5190.00	87.6 AV			1.72 H	51	47.3	40.3
5	#10380.00	58.6 PK	68.2	-9.6	2.21 H	143	49.8	8.8
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	59.1 PK	74.0	-14.9	2.00 V	295	56.5	2.6
2	5150.00	46.3 AV	54.0	-7.7	2.00 V	295	43.7	2.6
3	*5190.00	110.8 PK			2.00 V	295	70.5	40.3
4	*5190.00	97.5 AV			2.00 V	295	57.2	40.3
5	#10380.00	59.2 PK	68.2	-9.0	1.85 V	247	50.4	8.8

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	101.7 PK			1.69 H	65	61.6	40.1
2	*5230.00	87.8 AV			1.69 H	65	47.7	40.1
3	5350.00	58.7 PK	74.0	-15.3	1.69 H	65	56.4	2.3
4	5350.00	44.9 AV	54.0	-9.1	1.69 H	65	42.6	2.3
5	#10460.00	58.8 PK	68.2	-9.4	2.03 H	147	49.8	9.0
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	*5230.00	111.8 PK			2.18 V	296	71.7	40.1
2	*5230.00	98.0 AV			2.18 V	296	57.9	40.1
3	5350.00	57.2 PK	74.0	-16.8	2.18 V	296	54.9	2.3
4	5350.00	44.8 AV	54.0	-9.2	2.18 V	296	42.5	2.3
5	#10460.00	59.5 PK	68.2	-8.7	1.94 V	245	50.5	9.0

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.8 PK	74.0	-15.2	1.77 H	51	56.2	2.6
2	5150.00	45.9 AV	54.0	-8.1	1.77 H	51	43.3	2.6
3	*5210.00	97.8 PK			1.77 H	51	57.6	40.2
4	*5210.00	83.8 AV			1.77 H	51	43.6	40.2
5	5350.00	57.4 PK	74.0	-16.6	1.77 H	51	55.1	2.3
6	5350.00	45.2 AV	54.0	-8.8	1.77 H	51	42.9	2.3
7	#10420.00	58.9 PK	68.2	-9.3	2.08 H	143	50.0	8.9
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	58.8 PK	74.0	-15.2	2.04 V	295	56.2	2.6
2	5150.00	46.9 AV	54.0	-7.1	2.04 V	295	44.3	2.6
3	*5210.00	107.7 PK			2.04 V	295	67.5	40.2
4	*5210.00	93.6 AV			2.04 V	295	53.4	40.2
5	5350.00	58.3 PK	74.0	-15.7	2.04 V	295	56.0	2.3
6	5350.00	44.9 AV	54.0	-9.1	2.04 V	295	42.6	2.3
7	#10420.00	58.6 PK	68.2	-9.6	1.82 V	243	49.7	8.9

Remarks:

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

RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.3 PK	74.0	-15.7	1.73 H	57	55.7	2.6
2	5150.00	45.9 AV	54.0	-8.1	1.73 H	57	43.3	2.6
3	*5260.00	102.8 PK			1.73 H	57	62.7	40.1
4	*5260.00	90.7 AV			1.73 H	57	50.6	40.1
5	#10520.00	59.1 PK	68.2	-9.1	2.03 H	139	50.0	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.7 PK	74.0	-15.3	2.18 V	304	56.1	2.6
2	5150.00	45.9 AV	54.0	-8.1	2.18 V	304	43.3	2.6
3	*5260.00	111.0 PK			2.18 V	304	70.9	40.1
4	*5260.00	100.6 AV			2.18 V	304	60.5	40.1
5	#10520.00	58.9 PK	68.2	-9.3	1.91 V	207	49.8	9.1

Remarks:

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

RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	103.2 PK			1.78 H	57	63.1	40.1
2	*5300.00	91.0 AV			1.78 H	57	50.9	40.1
3	10600.00	59.5 PK	74.0	-14.5	2.08 H	131	50.4	9.1
4	10600.00	46.0 AV	54.0	-8.0	2.08 H	131	36.9	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	111.3 PK			2.19 V	306	71.2	40.1
2	*5300.00	100.9 AV			2.19 V	306	60.8	40.1
3	10600.00	59.2 PK	74.0	-14.8	2.04 V	245	50.1	9.1
4	10600.00	45.6 AV	54.0	-8.4	2.04 V	245	36.5	9.1

Remarks:

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

RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	102.3 PK			1.74 H	49	62.2	40.1
2	*5320.00	91.8 AV			1.74 H	49	51.7	40.1
3	5350.00	58.0 PK	74.0	-16.0	1.74 H	49	55.7	2.3
4	5350.00	45.1 AV	54.0	-8.9	1.74 H	49	42.8	2.3
5	10640.00	58.9 PK	74.0	-15.1	2.10 H	138	50.0	8.9
6	10640.00	45.3 AV	54.0	-8.7	2.10 H	138	36.4	8.9
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	112.1 PK			2.08 V	303	72.0	40.1
2	*5320.00	101.7 AV			2.08 V	303	61.6	40.1
3	5350.00	58.5 PK	74.0	-15.5	2.08 V	303	56.2	2.3
4	5350.00	45.2 AV	54.0	-8.8	2.08 V	303	42.9	2.3
5	10640.00	59.1 PK	74.0	-14.9	1.84 V	240	50.2	8.9
6	10640.00	45.5 AV	54.0	-8.5	1.84 V	240	36.6	8.9

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.0 PK	74.0	-15.0	1.73 H	57	56.4	2.6
2	5150.00	46.0 AV	54.0	-8.0	1.73 H	57	43.4	2.6
3	*5260.00	104.6 PK			1.73 H	57	64.5	40.1
4	*5260.00	90.6 AV			1.73 H	57	50.5	40.1
5	#10520.00	59.7 PK	68.2	-8.5	2.03 H	139	50.6	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.4 PK	74.0	-15.6	2.18 V	304	55.8	2.6
2	5150.00	45.9 AV	54.0	-8.1	2.18 V	304	43.3	2.6
3	*5260.00	113.2 PK			2.18 V	304	73.1	40.1
4	*5260.00	100.4 AV			2.18 V	304	60.3	40.1
5	#10520.00	59.4 PK	68.2	-8.8	1.91 V	247	50.3	9.1

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	104.9 PK			1.78 H	57	64.8	40.1
2	*5300.00	91.0 AV			1.78 H	57	50.9	40.1
3	10600.00	59.6 PK	74.0	-14.4	2.08 H	131	50.5	9.1
4	10600.00	45.9 AV	54.0	-8.1	2.08 H	131	36.8	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	113.5 PK			2.19 V	306	73.4	40.1
2	*5300.00	100.6 AV			2.19 V	306	60.5	40.1
3	10600.00	59.0 PK	74.0	-15.0	2.04 V	245	49.9	9.1
4	10600.00	45.4 AV	54.0	-8.6	2.04 V	245	36.3	9.1

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	105.3 PK			1.74 H	49	65.2	40.1
2	*5320.00	91.5 AV			1.74 H	49	51.4	40.1
3	5350.00	58.0 PK	74.0	-16.0	1.74 H	49	55.7	2.3
4	5350.00	44.9 AV	54.0	-9.1	1.74 H	49	42.6	2.3
5	10640.00	59.2 PK	74.0	-14.8	2.10 H	138	50.3	8.9
6	10640.00	45.6 AV	54.0	-8.4	2.10 H	138	36.7	8.9
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	115.6 PK			2.08 V	303	75.5	40.1
2	*5320.00	101.6 AV			2.08 V	303	61.5	40.1
3	5350.00	58.1 PK	74.0	-15.9	2.08 V	303	55.8	2.3
4	5350.00	45.2 AV	54.0	-8.8	2.08 V	303	42.9	2.3
5	10640.00	58.8 PK	74.0	-15.2	1.84 V	240	49.9	8.9
6	10640.00	45.2 AV	54.0	-8.8	1.84 V	240	36.3	8.9

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.2 PK	74.0	-15.8	1.73 H	51	55.6	2.6
2	5150.00	46.0 AV	54.0	-8.0	1.73 H	51	43.4	2.6
3	*5270.00	101.4 PK			1.73 H	51	61.3	40.1
4	*5270.00	87.7 AV			1.73 H	51	47.6	40.1
5	#10540.00	58.9 PK	68.2	-9.3	2.03 H	132	49.8	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.1 PK	74.0	-14.9	1.99 V	304	56.5	2.6
2	5150.00	46.0 AV	54.0	-8.0	1.99 V	304	43.4	2.6
3	*5270.00	111.0 PK			1.99 V	304	70.9	40.1
4	*5270.00	97.5 AV			1.99 V	304	57.4	40.1
5	#10540.00	59.2 PK	68.2	-9.0	1.94 V	247	50.1	9.1

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	102.0 PK			1.74 H	55	61.9	40.1
2	*5310.00	88.3 AV			1.74 H	55	48.2	40.1
3	5350.00	57.8 PK	74.0	-16.2	1.74 H	55	55.5	2.3
4	5350.00	45.0 AV	54.0	-9.0	1.74 H	55	42.7	2.3
5	10620.00	59.2 PK	74.0	-14.8	2.13 H	124	50.2	9.0
6	10620.00	45.6 AV	54.0	-8.4	2.13 H	124	36.6	9.0
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	*5310.00	112.8 PK			1.99 V	304	72.7	40.1
2	*5310.00	98.2 AV			1.99 V	304	58.1	40.1
3	5350.00	58.2 PK	74.0	-15.8	1.99 V	304	55.9	2.3
4	5350.00	45.3 AV	54.0	-8.7	1.99 V	304	43.0	2.3
5	10620.00	59.4 PK	74.0	-14.6	1.98 V	244	50.4	9.0
6	10620.00	45.7 AV	54.0	-8.3	1.98 V	244	36.7	9.0

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.8 PK	74.0	-15.2	1.74 H	62	56.2	2.6
2	5150.00	45.9 AV	54.0	-8.1	1.74 H	62	43.3	2.6
3	*5290.00	97.6 PK			1.74 H	62	57.5	40.1
4	*5290.00	83.0 AV			1.74 H	62	42.9	40.1
5	5350.00	58.1 PK	74.0	-15.9	1.74 H	62	55.8	2.3
6	5350.00	45.0 AV	54.0	-9.0	1.74 H	62	42.7	2.3
7	#10580.00	58.8 PK	68.2	-9.4	2.14 H	132	49.8	9.0
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	58.7 PK	74.0	-15.3	2.19 V	295	56.1	2.6
2	5150.00	45.9 AV	54.0	-8.1	2.19 V	295	43.3	2.6
3	*5290.00	107.0 PK			2.19 V	295	66.9	40.1
4	*5290.00	93.8 AV			2.19 V	295	53.7	40.1
5	5350.00	57.9 PK	74.0	-16.1	2.19 V	295	55.6	2.3
6	5350.00	45.9 AV	54.0	-8.1	2.19 V	295	43.6	2.3
7	#10580.00	59.4 PK	68.2	-8.8	1.98 V	250	50.4	9.0

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 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.8 PK	74.0	-15.2	1.79 H	43	56.3	2.5
2	5460.00	45.4 AV	54.0	-8.6	1.79 H	43	42.9	2.5
3	#5470.00	57.5 PK	68.2	-10.7	1.79 H	43	55.0	2.5
4	*5500.00	102.3 PK			1.79 H	43	61.9	40.4
5	*5500.00	91.1 AV			1.79 H	43	50.7	40.4
6	11000.00	59.0 PK	74.0	-15.0	2.08 H	126	49.8	9.2
7	11000.00	45.4 AV	54.0	-8.6	2.08 H	126	36.2	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.2 PK	74.0	-15.8	2.03 V	303	55.7	2.5
2	5460.00	45.7 AV	54.0	-8.3	2.03 V	303	43.2	2.5
3	#5470.00	57.7 PK	68.2	-10.5	2.03 V	303	55.2	2.5
4	*5500.00	113.0 PK			2.03 V	303	72.6	40.4
5	*5500.00	101.0 AV			2.03 V	303	60.6	40.4
6	11000.00	59.7 PK	74.0	-14.3	1.91 V	245	50.5	9.2
7	11000.00	46.1 AV	54.0	-7.9	1.91 V	245	36.9	9.2

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	103.0 PK			1.73 H	52	62.2	40.8
2	*5580.00	91.8 AV			1.73 H	52	51.0	40.8
3	11160.00	59.6 PK	74.0	-14.4	2.03 H	131	49.9	9.7
4	11160.00	45.9 AV	54.0	-8.1	2.03 H	131	36.2	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	113.7 PK			2.08 V	301	72.9	40.8
2	*5580.00	101.6 AV			2.08 V	301	60.8	40.8
3	11160.00	59.8 PK	74.0	-14.2	1.82 V	223	50.1	9.7
4	11160.00	46.1 AV	54.0	-7.9	1.82 V	223	36.4	9.7

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	103.0 PK			1.77 H	59	61.5	41.5
2	*5700.00	91.8 AV			1.77 H	59	50.3	41.5
3	#5725.00	59.1 PK	68.2	-9.1	1.77 H	59	55.2	3.9
4	11400.00	60.2 PK	74.0	-13.8	2.01 H	124	50.1	10.1
5	11400.00	46.5 AV	54.0	-7.5	2.01 H	124	36.4	10.1
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	*5700.00	113.3 PK			2.19 V	301	71.8	41.5
2	*5700.00	101.8 AV			2.19 V	301	60.3	41.5
3	#5725.00	60.7 PK	68.2	-7.5	2.19 V	301	56.8	3.9
4	11400.00	60.5 PK	74.0	-13.5	1.77 V	216	50.4	10.1
5	11400.00	46.8 AV	54.0	-7.2	1.77 V	216	36.7	10.1

Remarks:

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

RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.8 PK	74.0	-16.2	1.77 H	59	55.3	2.5
2	5460.00	45.0 AV	54.0	-9.0	1.77 H	59	42.5	2.5
3	#5470.00	57.3 PK	68.2	-10.9	1.77 H	59	54.8	2.5
4	*5720.00	102.6 PK			1.77 H	59	61.1	41.5
5	*5720.00	92.0 AV			1.77 H	59	50.5	41.5
6	11440.00	60.4 PK	74.0	-13.6	1.98 H	131	50.2	10.2
7	11440.00	46.6 AV	54.0	-7.4	1.98 H	131	36.4	10.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.2 PK	74.0	-15.8	2.19 V	301	55.7	2.5
2	5460.00	45.3 AV	54.0	-8.7	2.19 V	301	42.8	2.5
3	#5470.00	56.9 PK	68.2	-11.3	2.19 V	301	54.4	2.5
4	*5720.00	112.4 PK			2.19 V	301	70.9	41.5
5	*5720.00	102.2 AV			2.19 V	301	60.7	41.5
6	11440.00	60.0 PK	74.0	-14.0	1.81 V	209	49.8	10.2
7	11440.00	46.4 AV	54.0	-7.6	1.81 V	209	36.2	10.2

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.7 PK	74.0	-15.3	1.79 H	43	56.2	2.5
2	5460.00	45.1 AV	54.0	-8.9	1.79 H	43	42.6	2.5
3	#5470.00	58.2 PK	68.2	-10.0	1.79 H	43	55.7	2.5
4	*5500.00	103.8 PK			1.79 H	43	63.4	40.4
5	*5500.00	90.4 AV			1.79 H	43	50.0	40.4
6	11000.00	58.5 PK	74.0	-15.5	2.08 H	126	49.3	9.2
7	11000.00	44.9 AV	54.0	-9.1	2.08 H	126	35.7	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.2 PK	74.0	-15.8	2.03 V	303	55.7	2.5
2	5460.00	45.3 AV	54.0	-8.7	2.03 V	303	42.8	2.5
3	#5470.00	56.7 PK	68.2	-11.5	2.03 V	303	54.2	2.5
4	*5500.00	114.5 PK			2.03 V	303	74.1	40.4
5	*5500.00	101.1 AV			2.03 V	303	60.7	40.4
6	11000.00	59.3 PK	74.0	-14.7	1.91 V	245	50.1	9.2
7	11000.00	45.6 AV	54.0	-8.4	1.91 V	245	36.4	9.2

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	104.5 PK			1.73 H	52	63.7	40.8
2	*5580.00	91.2 AV			1.73 H	52	50.4	40.8
3	11160.00	59.2 PK	74.0	-14.8	2.03 H	131	49.5	9.7
4	11160.00	45.6 AV	54.0	-8.4	2.03 H	131	35.9	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	115.2 PK			2.08 V	301	74.4	40.8
2	*5580.00	101.9 AV			2.08 V	301	61.1	40.8
3	11160.00	60.1 PK	74.0	-13.9	1.82 V	223	50.4	9.7
4	11160.00	46.2 AV	54.0	-7.8	1.82 V	223	36.5	9.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	106.0 PK			1.77 H	59	64.5	41.5
2	*5700.00	91.9 AV			1.77 H	59	50.4	41.5
3	#5725.00	59.0 PK	68.2	-9.2	1.77 H	59	55.1	3.9
4	11400.00	59.9 PK	74.0	-14.1	2.01 H	124	49.8	10.1
5	11400.00	46.3 AV	54.0	-7.7	2.01 H	124	36.2	10.1
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	*5700.00	115.9 PK			2.19 V	301	74.4	41.5
2	*5700.00	102.0 AV			2.19 V	301	60.5	41.5
3	#5725.00	60.7 PK	68.2	-7.5	2.19 V	301	56.8	3.9
4	11400.00	60.1 PK	74.0	-13.9	1.77 V	216	50.0	10.1
5	11400.00	46.4 AV	54.0	-7.6	1.77 V	216	36.3	10.1

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.5 PK	74.0	-16.5	1.77 H	62	55.0	2.5
2	5460.00	45.0 AV	54.0	-9.0	1.77 H	62	42.5	2.5
3	#5470.00	56.7 PK	68.2	-11.5	1.77 H	62	54.2	2.5
4	*5720.00	105.6 PK			1.77 H	62	64.1	41.5
5	*5720.00	91.5 AV			1.77 H	62	50.0	41.5
6	11440.00	59.8 PK	74.0	-14.2	2.04 H	126	49.6	10.2
7	11440.00	46.0 AV	54.0	-8.0	2.04 H	126	35.8	10.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.1 PK	74.0	-15.9	2.19 V	301	55.6	2.5
2	5460.00	45.3 AV	54.0	-8.7	2.19 V	301	42.8	2.5
3	#5470.00	57.2 PK	68.2	-11.0	2.19 V	301	54.7	2.5
4	*5720.00	115.7 PK			2.19 V	301	74.2	41.5
5	*5720.00	101.9 AV			2.19 V	301	60.4	41.5
6	11440.00	60.5 PK	74.0	-13.5	1.81 V	209	50.3	10.2
7	11440.00	46.7 AV	54.0	-7.3	1.81 V	209	36.5	10.2

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.4 PK	74.0	-16.6	1.79 H	41	54.9	2.5
2	5460.00	45.4 AV	54.0	-8.6	1.79 H	41	42.9	2.5
3	#5470.00	56.6 PK	68.2	-11.6	1.79 H	41	54.1	2.5
4	*5510.00	101.2 PK			1.79 H	41	60.8	40.4
5	*5510.00	87.7 AV			1.79 H	41	47.3	40.4
6	11020.00	59.0 PK	74.0	-15.0	2.08 H	130	49.7	9.3
7	11020.00	45.4 AV	54.0	-8.6	2.08 H	130	36.1	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.0 PK	74.0	-16.0	2.03 V	303	55.5	2.5
2	5460.00	45.6 AV	54.0	-8.4	2.03 V	303	43.1	2.5
3	#5470.00	57.8 PK	68.2	-10.4	2.03 V	303	55.3	2.5
4	*5510.00	110.6 PK			2.03 V	303	70.2	40.4
5	*5510.00	97.7 AV			2.03 V	303	57.3	40.4
6	11020.00	59.6 PK	74.0	-14.4	1.91 V	244	50.3	9.3
7	11020.00	45.9 AV	54.0	-8.1	1.91 V	244	36.6	9.3

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	101.8 PK			1.73 H	52	61.1	40.7
2	*5550.00	88.3 AV			1.73 H	52	47.6	40.7
3	11100.00	59.4 PK	74.0	-14.6	2.03 H	129	49.8	9.6
4	11100.00	45.7 AV	54.0	-8.3	2.03 H	129	36.1	9.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	111.3 PK			2.08 V	301	70.6	40.7
2	*5550.00	98.3 AV			2.08 V	301	57.6	40.7
3	11100.00	59.7 PK	74.0	-14.3	1.82 V	223	50.1	9.6
4	11100.00	45.9 AV	54.0	-8.1	1.82 V	223	36.3	9.6

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	103.1 PK			1.77 H	55	61.8	41.3
2	*5670.00	89.4 AV			1.77 H	55	48.1	41.3
3	#5725.00	59.7 PK	68.2	-8.5	1.77 H	55	55.8	3.9
4	11340.00	59.6 PK	74.0	-14.4	2.01 H	121	49.6	10.0
5	11340.00	46.0 AV	54.0	-8.0	2.01 H	121	36.0	10.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	113.5 PK			2.19 V	301	72.2	41.3
2	*5670.00	99.4 AV			2.19 V	301	58.1	41.3
3	#5725.00	58.8 PK	68.2	-9.4	2.19 V	301	54.9	3.9
4	11340.00	59.4 PK	74.0	-14.6	1.75 V	213	49.4	10.0
5	11340.00	45.8 AV	54.0	-8.2	1.75 V	213	35.8	10.0

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.5 PK	74.0	-15.5	1.77 H	61	56.0	2.5
2	5460.00	45.2 AV	54.0	-8.8	1.77 H	61	42.7	2.5
3	#5470.00	57.3 PK	68.2	-10.9	1.77 H	61	54.8	2.5
4	*5710.00	103.3 PK			1.77 H	61	61.7	41.6
5	*5710.00	89.8 AV			1.77 H	61	48.2	41.6
6	11420.00	59.6 PK	74.0	-14.4	2.04 H	126	49.5	10.1
7	11420.00	45.8 AV	54.0	-8.2	2.04 H	126	35.7	10.1
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	5460.00	57.2 PK	74.0	-16.8	2.21 V	301	54.7	2.5
2	5460.00	45.3 AV	54.0	-8.7	2.21 V	301	42.8	2.5
3	#5470.00	57.5 PK	68.2	-10.7	2.21 V	301	55.0	2.5
4	*5710.00	113.2 PK			2.21 V	301	71.6	41.6
5	*5710.00	99.7 AV			2.21 V	301	58.1	41.6
6	11420.00	60.4 PK	74.0	-13.6	1.84 V	209	50.3	10.1
7	11420.00	46.7 AV	54.0	-7.3	1.84 V	209	36.6	10.1

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.7 PK	74.0	-15.3	1.74 H	43	56.2	2.5
2	5460.00	45.2 AV	54.0	-8.8	1.74 H	43	42.7	2.5
3	#5470.00	57.5 PK	68.2	-10.7	1.74 H	43	55.0	2.5
4	*5530.00	97.1 PK			1.74 H	43	56.5	40.6
5	*5530.00	83.1 AV			1.74 H	43	42.5	40.6
6	#5725.00	59.7 PK	68.2	-8.5	1.74 H	43	55.8	3.9
7	11060.00	59.4 PK	74.0	-14.6	2.08 H	123	49.9	9.5
8	11060.00	45.6 AV	54.0	-8.4	2.08 H	123	36.1	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.0 PK	74.0	-16.0	2.04 V	303	55.5	2.5
2	5460.00	45.5 AV	54.0	-8.5	2.04 V	303	43.0	2.5
3	#5470.00	57.2 PK	68.2	-11.0	2.04 V	303	54.7	2.5
4	*5530.00	107.3 PK			2.04 V	303	66.7	40.6
5	*5530.00	93.4 AV			2.04 V	303	52.8	40.6
6	#5725.00	60.0 PK	68.2	-8.2	2.04 V	303	56.1	3.9
7	11060.00	59.2 PK	74.0	-14.8	1.91 V	247	49.7	9.5
8	11060.00	45.5 AV	54.0	-8.5	1.91 V	247	36.0	9.5

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.4 PK	74.0	-15.6	1.75 H	46	55.9	2.5
2	5460.00	45.2 AV	54.0	-8.8	1.75 H	46	42.7	2.5
3	#5470.00	56.6 PK	68.2	-11.6	1.75 H	46	54.1	2.5
4	*5610.00	97.0 PK			1.75 H	46	56.0	41.0
5	*5610.00	84.1 AV			1.75 H	46	43.1	41.0
6	#5725.00	59.5 PK	68.2	-8.7	1.75 H	46	55.6	3.9
7	11220.00	59.8 PK	74.0	-14.2	2.08 H	134	49.9	9.9
8	11220.00	46.1 AV	54.0	-7.9	2.08 H	134	36.2	9.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.3 PK	74.0	-15.7	2.22 V	302	55.8	2.5
2	5460.00	45.4 AV	54.0	-8.6	2.22 V	302	42.9	2.5
3	#5470.00	57.4 PK	68.2	-10.8	2.22 V	302	54.9	2.5
4	*5610.00	107.8 PK			2.22 V	302	66.8	41.0
5	*5610.00	94.1 AV			2.22 V	302	53.1	41.0
6	#5725.00	59.5 PK	68.2	-8.7	2.22 V	302	55.6	3.9
7	11220.00	59.8 PK	74.0	-14.2	1.84 V	229	49.9	9.9
8	11220.00	46.1 AV	54.0	-7.9	1.84 V	229	36.2	9.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.2 PK	74.0	-15.8	1.75 H	61	55.7	2.5
2	5460.00	45.4 AV	54.0	-8.6	1.75 H	61	42.9	2.5
3	#5470.00	57.5 PK	68.2	-10.7	1.75 H	61	55.0	2.5
4	*5690.00	98.4 PK			1.75 H	61	57.0	41.4
5	*5690.00	84.6 AV			1.75 H	61	43.2	41.4
6	11380.00	60.2 PK	74.0	-13.8	2.04 H	126	50.1	10.1
7	11380.00	46.5 AV	54.0	-7.5	2.04 H	126	36.4	10.1
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	5460.00	58.4 PK	74.0	-15.6	2.19 V	301	55.9	2.5
2	5460.00	45.3 AV	54.0	-8.7	2.19 V	301	42.8	2.5
3	#5470.00	58.7 PK	68.2	-9.5	2.19 V	301	56.2	2.5
4	*5690.00	108.8 PK			2.19 V	301	67.4	41.4
5	*5690.00	94.7 AV			2.19 V	301	53.3	41.4
6	11380.00	59.8 PK	74.0	-14.2	1.84 V	208	49.7	10.1
7	11380.00	45.8 AV	54.0	-8.2	1.84 V	208	35.7	10.1

Remarks:

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

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.00	58.4 PK	68.2	-9.8	1.82 H	57	54.8	3.6
2	*5745.00	102.5 PK			1.82 H	57	60.9	41.6
3	*5745.00	91.4 AV			1.82 H	57	49.8	41.6
4	#5950.40	59.1 PK	68.2	-9.1	1.82 H	57	54.9	4.2
5	11490.00	59.8 PK	74.0	-14.2	2.08 H	129	49.7	10.1
6	11490.00	46.1 AV	54.0	-7.9	2.08 H	129	36.0	10.1
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	#5611.20	59.9 PK	68.2	-8.3	2.19 V	302	56.5	3.4
2	*5745.00	112.8 PK			2.19 V	302	71.2	41.6
3	*5745.00	101.6 AV			2.19 V	302	60.0	41.6
4	#5958.80	60.3 PK	68.2	-7.9	2.19 V	302	56.1	4.2
5	11490.00	60.2 PK	74.0	-13.8	1.84 V	217	50.1	10.1
6	11490.00	46.5 AV	54.0	-7.5	1.84 V	217	36.4	10.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5604.40	59.2 PK	68.2	-9.0	1.82 H	59	55.8	3.4
2	*5785.00	103.6 PK			1.82 H	59	61.8	41.8
3	*5785.00	92.0 AV			1.82 H	59	50.2	41.8
4	#5984.00	59.7 PK	68.2	-8.5	1.82 H	59	55.4	4.3
5	11570.00	59.2 PK	74.0	-14.8	2.11 H	135	49.3	9.9
6	11570.00	45.1 AV	54.0	-8.9	2.11 H	135	35.2	9.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.40	58.9 PK	68.2	-9.3	2.19 V	301	55.3	3.6
2	*5785.00	113.3 PK			2.19 V	301	71.5	41.8
3	*5785.00	102.3 AV			2.19 V	301	60.5	41.8
4	#5992.40	59.2 PK	68.2	-9.0	2.19 V	301	54.8	4.4
5	11570.00	59.5 PK	74.0	-14.5	1.82 V	217	49.6	9.9
6	11570.00	45.5 AV	54.0	-8.5	1.82 V	217	35.6	9.9

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5613.20	59.1 PK	68.2	-9.1	1.82 H	59	55.7	3.4
2	*5825.00	102.9 PK			1.82 H	59	61.1	41.8
3	*5825.00	91.7 AV			1.82 H	59	49.9	41.8
4	#5932.00	58.9 PK	68.2	-9.3	1.82 H	59	54.7	4.2
5	11650.00	58.7 PK	74.0	-15.3	2.11 H	135	49.0	9.7
6	11650.00	44.6 AV	54.0	-9.4	2.11 H	135	34.9	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5606.80	59.2 PK	68.2	-9.0	2.19 V	301	55.8	3.4
2	*5825.00	112.4 PK			2.19 V	301	70.6	41.8
3	*5825.00	102.0 AV			2.19 V	301	60.2	41.8
4	#5960.00	59.2 PK	68.2	-9.0	2.19 V	301	55.0	4.2
5	11650.00	59.4 PK	74.0	-14.6	1.79 V	221	49.7	9.7
6	11650.00	45.3 AV	54.0	-8.7	1.79 V	221	35.6	9.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5629.60	59.1 PK	68.2	-9.1	1.82 H	57	55.5	3.6
2	*5745.00	104.8 PK			1.82 H	57	63.2	41.6
3	*5745.00	91.3 AV			1.82 H	57	49.7	41.6
4	#5979.20	59.3 PK	68.2	-8.9	1.82 H	57	55.0	4.3
5	11490.00	59.6 PK	74.0	-14.4	2.08 H	129	49.5	10.1
6	11490.00	45.8 AV	54.0	-8.2	2.08 H	129	35.7	10.1
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	#5647.60	59.3 PK	68.2	-8.9	2.19 V	302	55.7	3.6
2	*5745.00	115.6 PK			2.19 V	302	74.0	41.6
3	*5745.00	101.6 AV			2.19 V	302	60.0	41.6
4	#5980.40	59.6 PK	68.2	-8.6	2.19 V	302	55.3	4.3
5	11490.00	59.7 PK	74.0	-14.3	1.84 V	217	49.6	10.1
6	11490.00	46.0 AV	54.0	-8.0	1.84 V	217	35.9	10.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5600.00	58.6 PK	68.2	-9.6	1.82 H	59	55.2	3.4
2	*5785.00	104.9 PK			1.82 H	59	63.1	41.8
3	*5785.00	91.5 AV			1.82 H	59	49.7	41.8
4	#5951.60	60.7 PK	68.2	-7.5	1.82 H	59	56.5	4.2
5	11570.00	59.0 PK	74.0	-15.0	2.11 H	135	49.1	9.9
6	11570.00	44.9 AV	54.0	-9.1	2.11 H	135	35.0	9.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.60	59.2 PK	68.2	-9.0	2.19 V	301	55.6	3.6
2	*5785.00	116.0 PK			2.19 V	301	74.2	41.8
3	*5785.00	101.7 AV			2.19 V	301	59.9	41.8
4	#5962.00	59.9 PK	68.2	-8.3	2.19 V	301	55.7	4.2
5	11570.00	59.4 PK	74.0	-14.6	1.82 V	217	49.5	9.9
6	11570.00	45.3 AV	54.0	-8.7	1.82 V	217	35.4	9.9

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.00	59.2 PK	68.2	-9.0	1.82 H	59	55.6	3.6
2	*5825.00	104.9 PK			1.82 H	59	63.1	41.8
3	*5825.00	91.6 AV			1.82 H	59	49.8	41.8
4	#5933.20	59.4 PK	68.2	-8.8	1.82 H	59	55.2	4.2
5	11650.00	58.9 PK	74.0	-15.1	2.11 H	135	49.2	9.7
6	11650.00	44.7 AV	54.0	-9.3	2.11 H	135	35.0	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5619.60	58.9 PK	68.2	-9.3	2.19 V	301	55.5	3.4
2	*5825.00	116.2 PK			2.19 V	301	74.4	41.8
3	*5825.00	101.6 AV			2.19 V	301	59.8	41.8
4	#5999.20	60.4 PK	68.2	-7.8	2.19 V	301	56.0	4.4
5	11650.00	58.9 PK	74.0	-15.1	1.82 V	217	49.2	9.7
6	11650.00	44.9 AV	54.0	-9.1	1.82 V	217	35.2	9.7

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.80	59.0 PK	68.2	-9.2	1.82 H	57	55.4	3.6
2	*5755.00	101.8 PK			1.82 H	57	60.1	41.7
3	*5755.00	88.8 AV			1.82 H	57	47.1	41.7
4	#5931.20	59.6 PK	68.2	-8.6	1.82 H	57	55.4	4.2
5	11510.00	59.5 PK	74.0	-14.5	2.08 H	129	49.4	10.1
6	11510.00	45.8 AV	54.0	-8.2	2.08 H	129	35.7	10.1
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	#5639.60	59.6 PK	68.2	-8.6	2.19 V	302	56.0	3.6
2	*5755.00	112.7 PK			2.19 V	302	71.0	41.7
3	*5755.00	99.0 AV			2.19 V	302	57.3	41.7
4	#5984.40	59.4 PK	68.2	-8.8	2.19 V	302	55.1	4.3
5	11510.00	59.8 PK	74.0	-14.2	1.84 V	214	49.7	10.1
6	11510.00	45.9 AV	54.0	-8.1	1.84 V	214	35.8	10.1

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5601.60	59.1 PK	68.2	-9.1	1.82 H	55	55.7	3.4
2	*5795.00	102.5 PK			1.82 H	55	60.7	41.8
3	*5795.00	89.2 AV			1.82 H	55	47.4	41.8
4	#5945.60	58.7 PK	68.2	-9.5	1.82 H	55	54.5	4.2
5	11590.00	59.3 PK	74.0	-14.7	2.08 H	133	49.4	9.9
6	11590.00	45.4 AV	54.0	-8.6	2.08 H	133	35.5	9.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	59.4 PK	68.2	-8.8	2.19 V	302	55.8	3.6
2	*5795.00	112.4 PK			2.19 V	302	70.6	41.8
3	*5795.00	99.2 AV			2.19 V	302	57.4	41.8
4	#5940.00	59.5 PK	68.2	-8.7	2.19 V	302	55.3	4.2
5	11590.00	59.7 PK	74.0	-14.3	1.82 V	214	49.8	9.9
6	11590.00	45.8 AV	54.0	-8.2	1.82 V	214	35.9	9.9

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5614.00	59.6 PK	68.2	-8.6	1.82 H	53	56.2	3.4
2	*5775.00	97.9 PK			1.82 H	53	56.1	41.8
3	*5775.00	84.5 AV			1.82 H	53	42.7	41.8
4	#5969.20	59.5 PK	68.2	-8.7	1.82 H	53	55.3	4.2
5	11550.00	59.3 PK	74.0	-14.7	2.08 H	126	49.3	10.0
6	11550.00	45.3 AV	54.0	-8.7	2.08 H	126	35.3	10.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.40	58.6 PK	68.2	-9.6	2.19 V	302	55.0	3.6
2	*5775.00	108.4 PK			2.19 V	302	66.6	41.8
3	*5775.00	94.6 AV			2.19 V	302	52.8	41.8
4	#5982.80	59.6 PK	68.2	-8.6	2.19 V	302	55.3	4.3
5	11550.00	59.5 PK	74.0	-14.5	1.79 V	214	49.5	10.0
6	11550.00	45.6 AV	54.0	-8.4	1.79 V	214	35.6	10.0

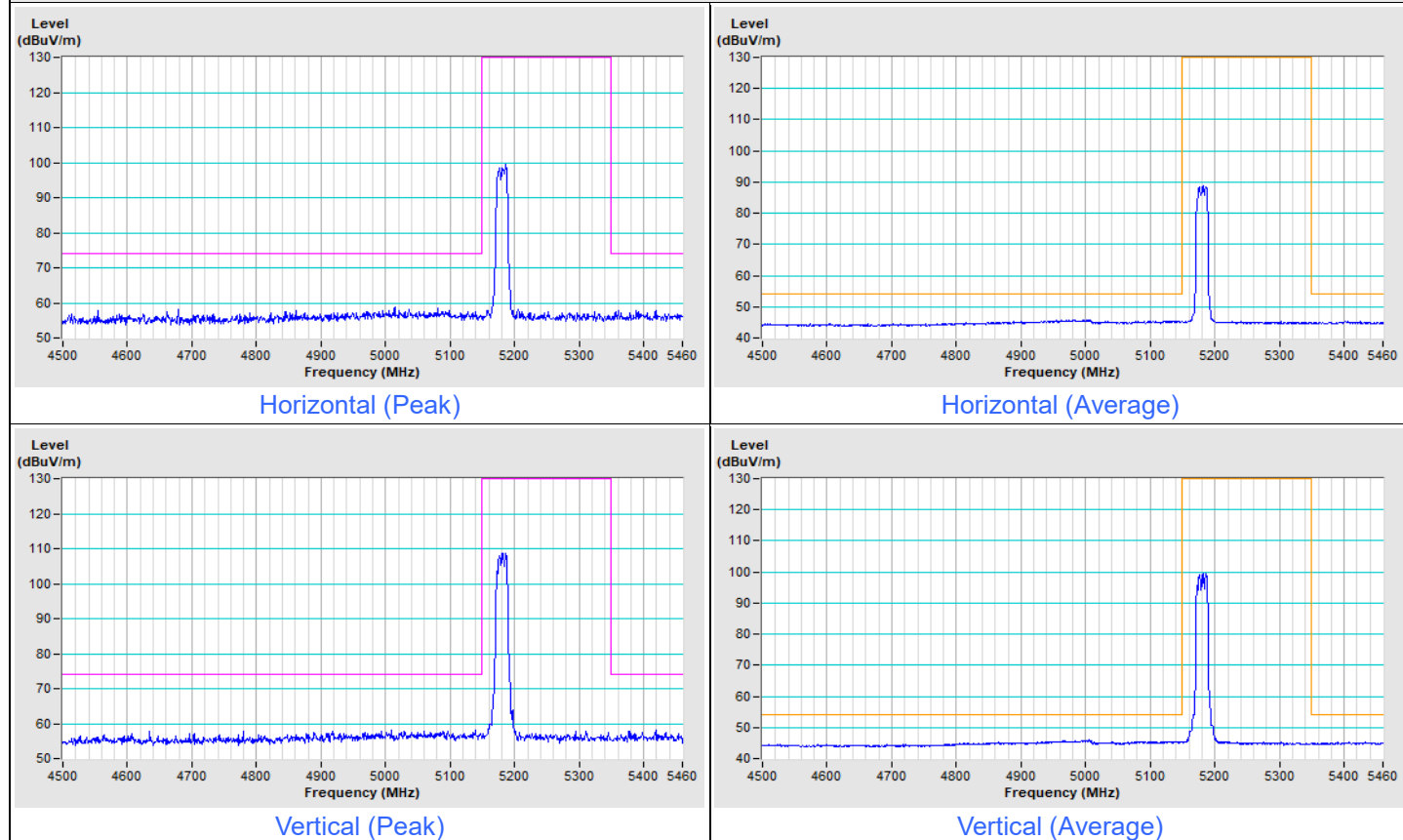
Remarks:

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

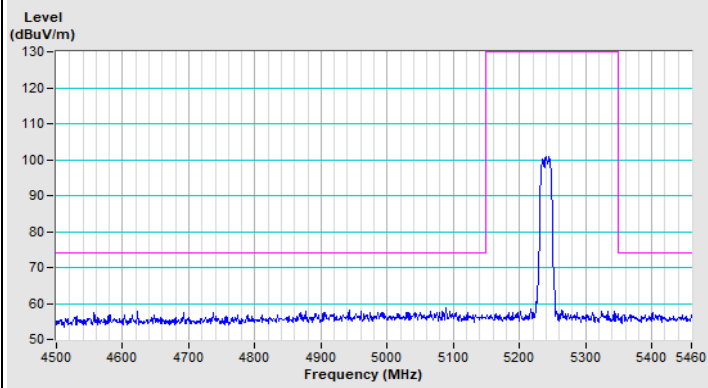
Plot of Band Edge

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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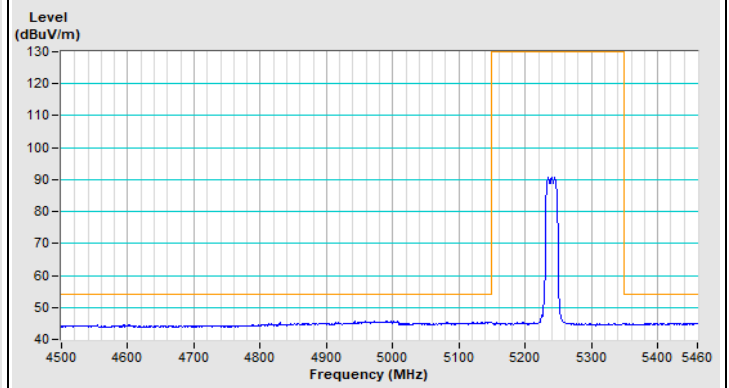
802.11a Channel 36



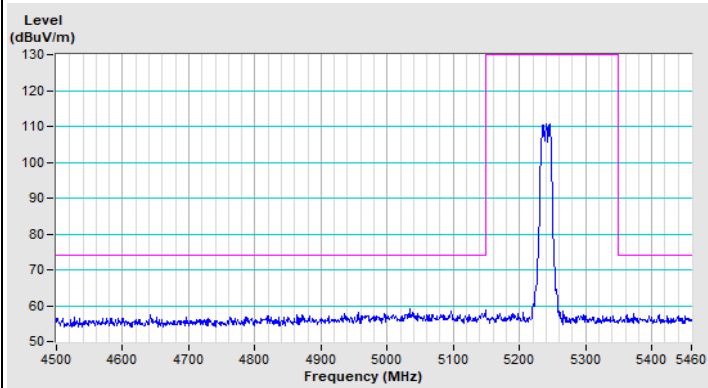
802.11a Channel 48



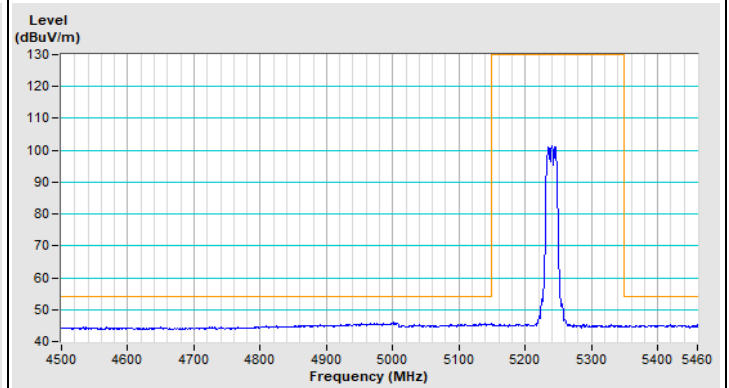
Horizontal (Peak)



Horizontal (Average)



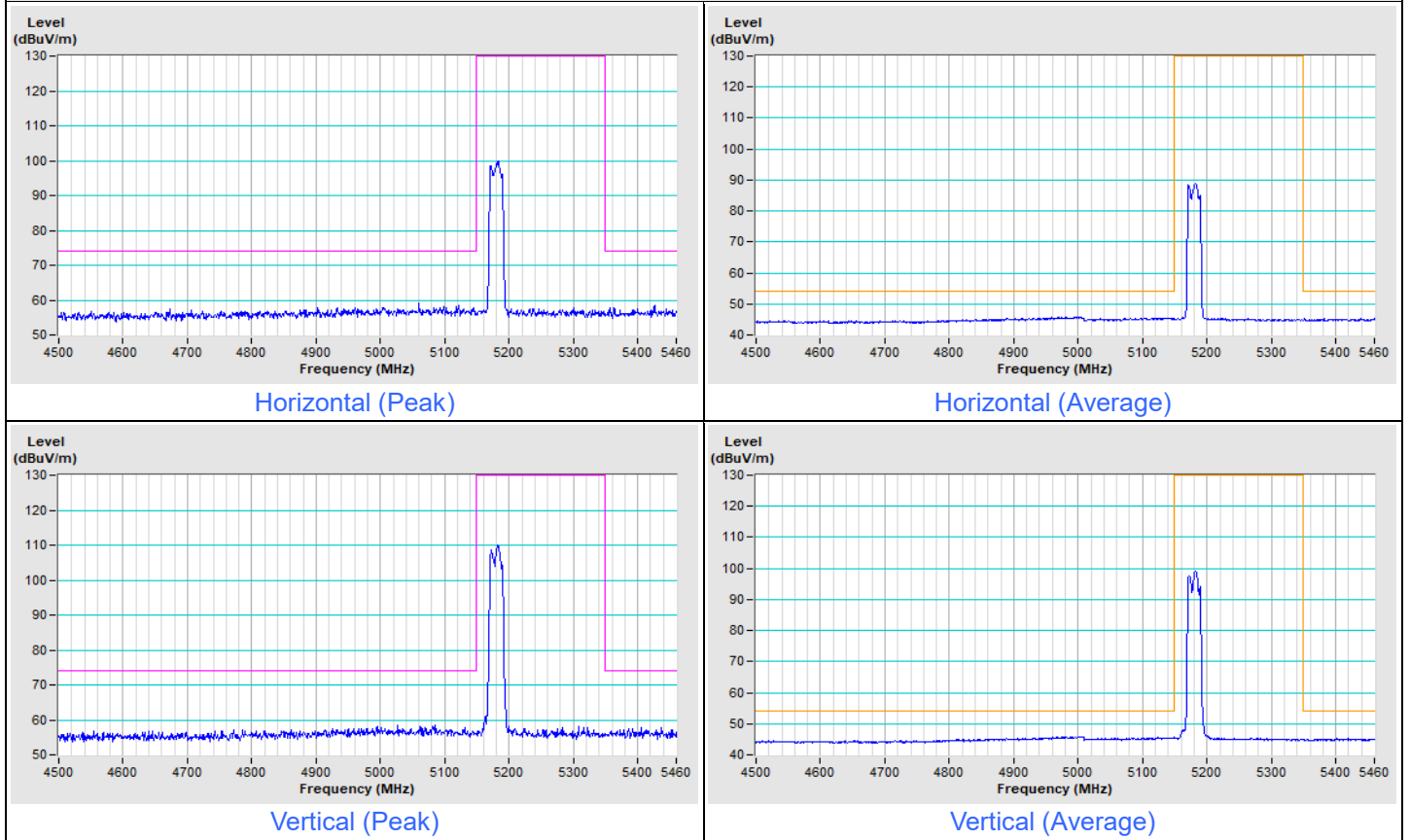
Vertical (Peak)



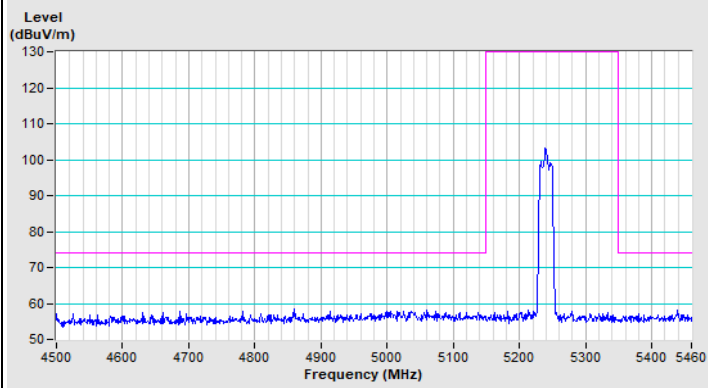
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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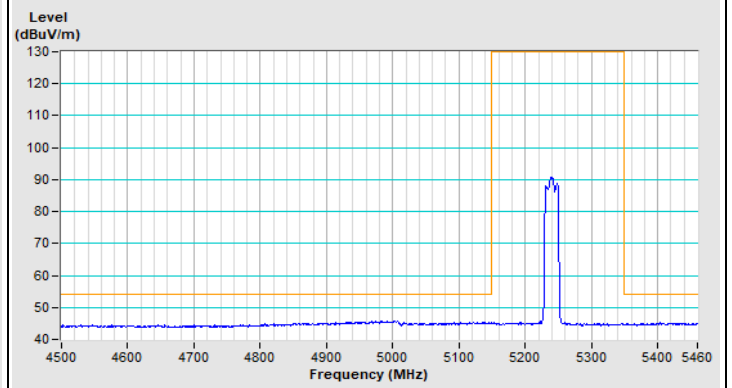
802.11ax (HE20) Channel 36



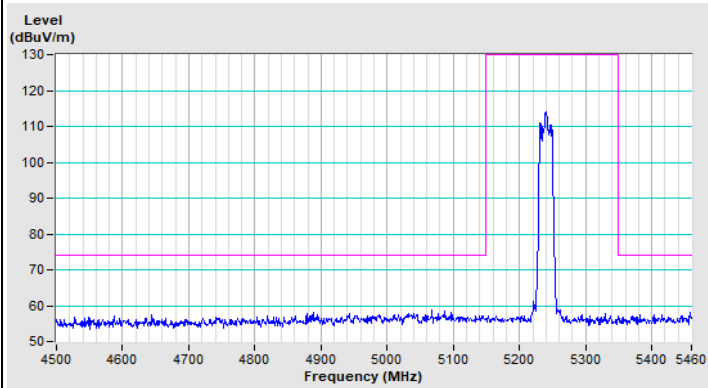
802.11ax (HE20) Channel 48



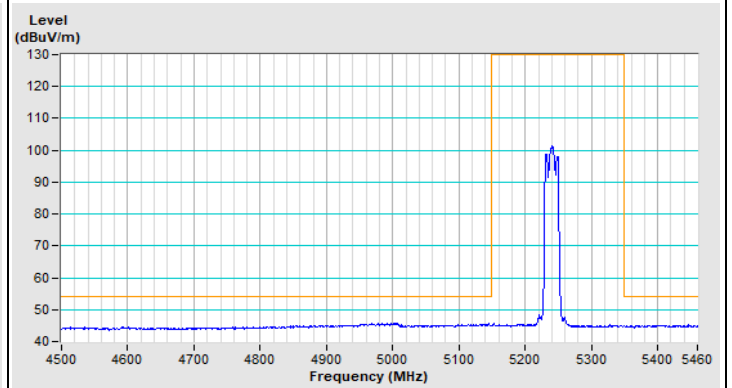
Horizontal (Peak)



Horizontal (Average)



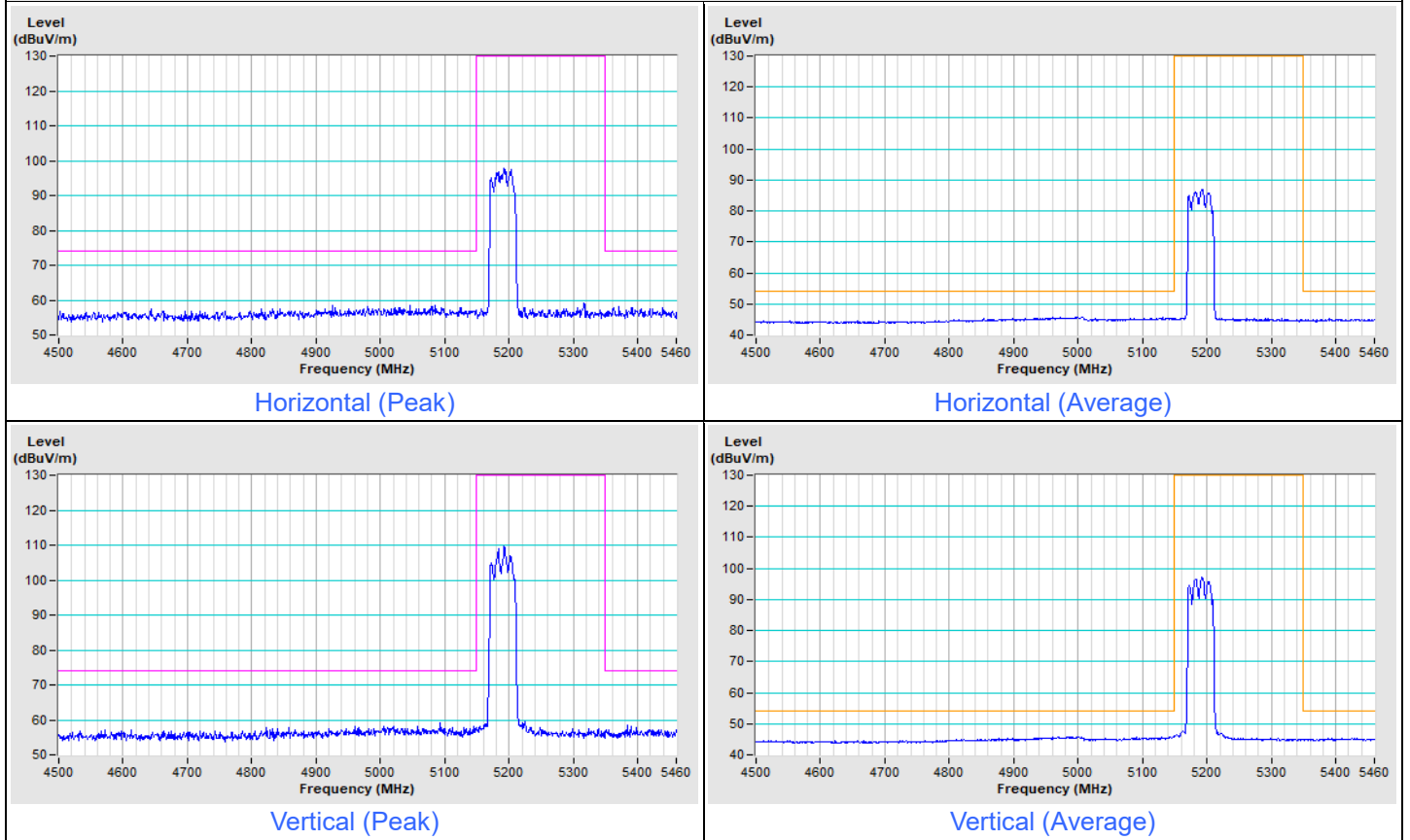
Vertical (Peak)



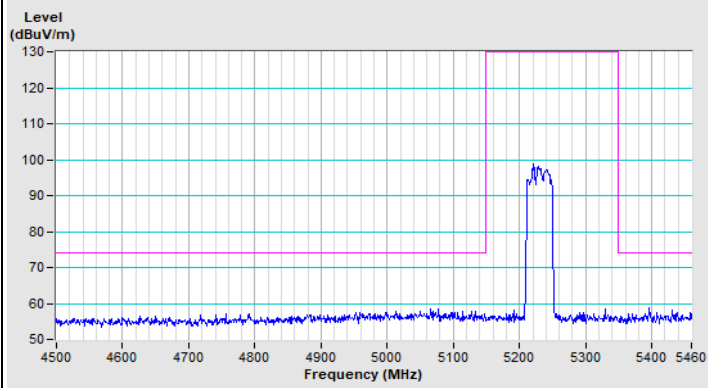
Vertical (Average)

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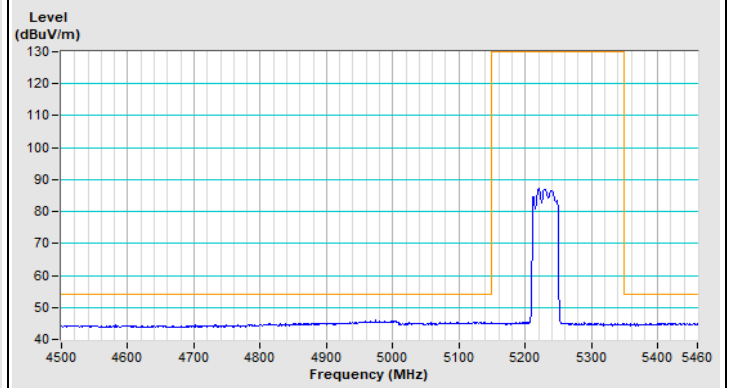
802.11ax (HE40) Channel 38



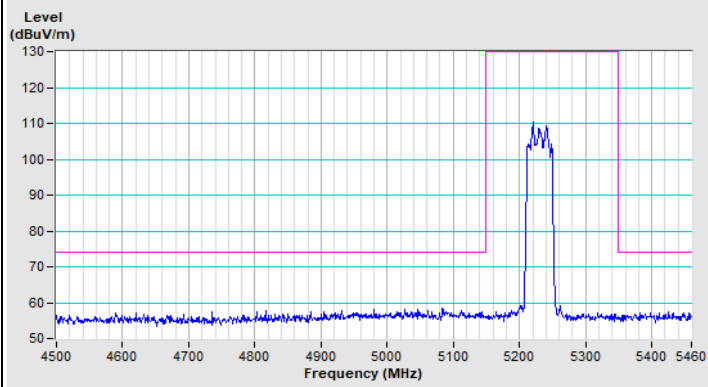
802.11ax (HE40) Channel 46



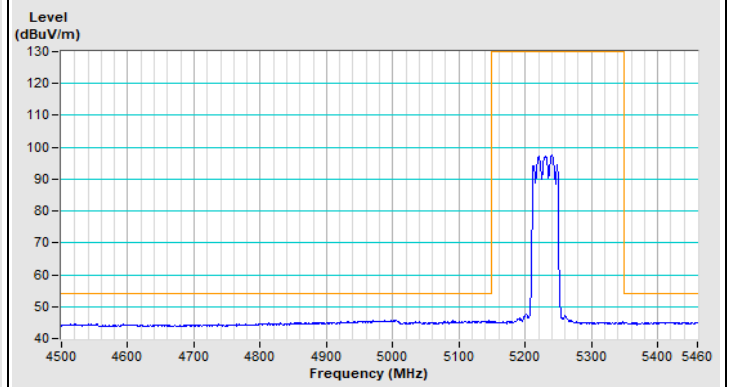
Horizontal (Peak)



Horizontal (Average)



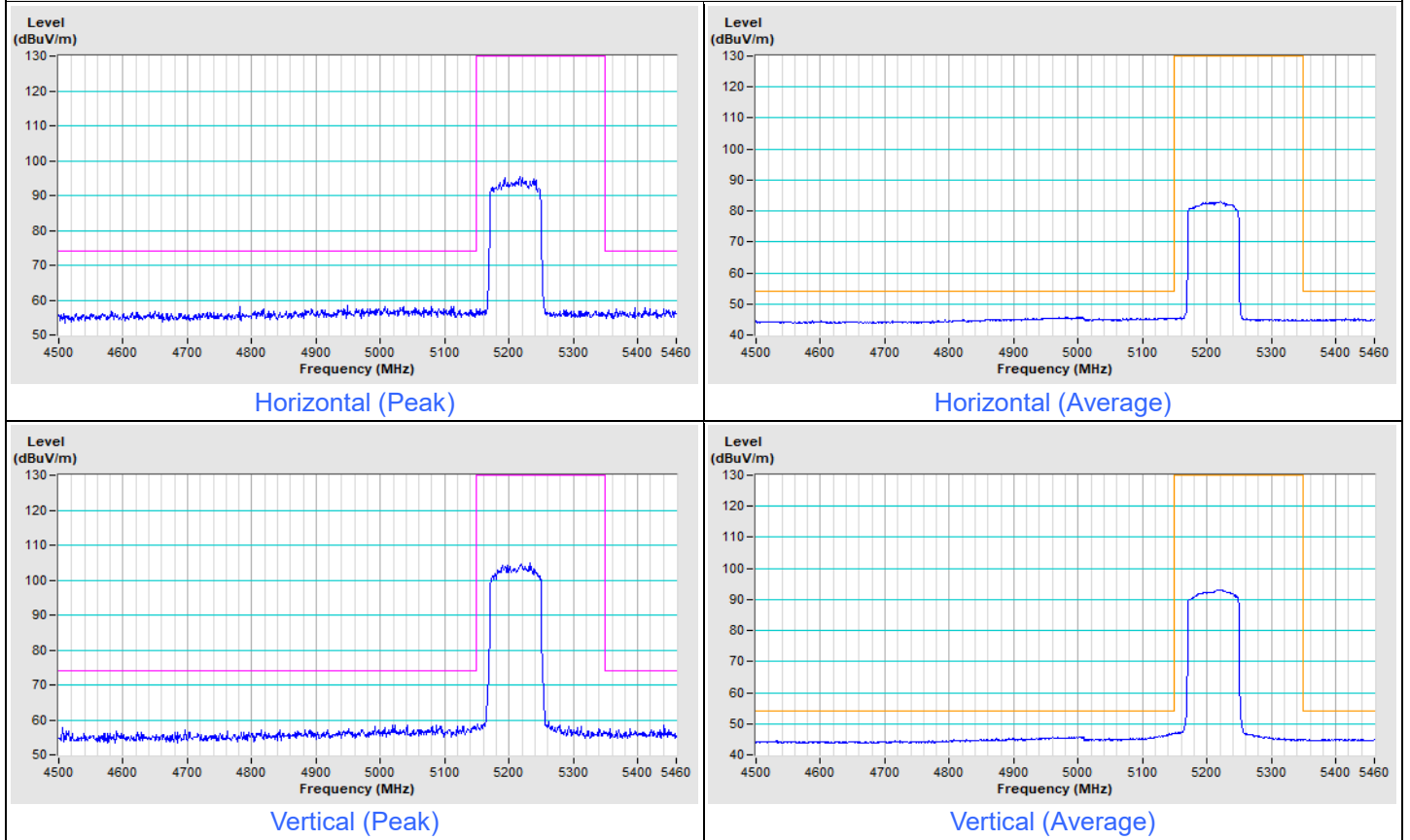
Vertical (Peak)



Vertical (Average)

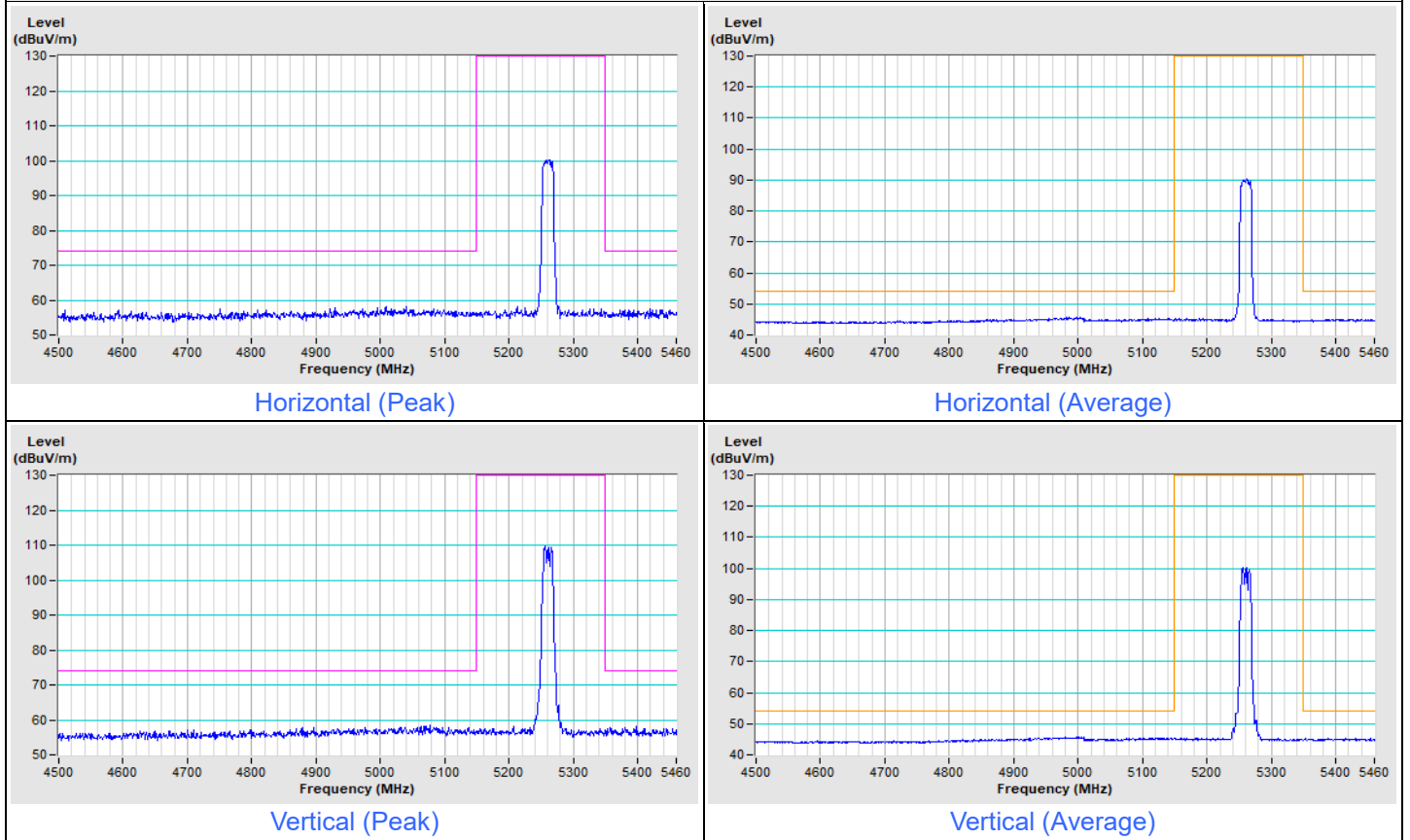
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE80) Channel 42

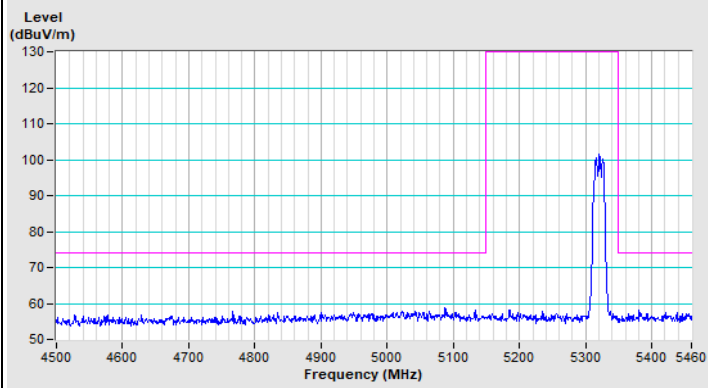


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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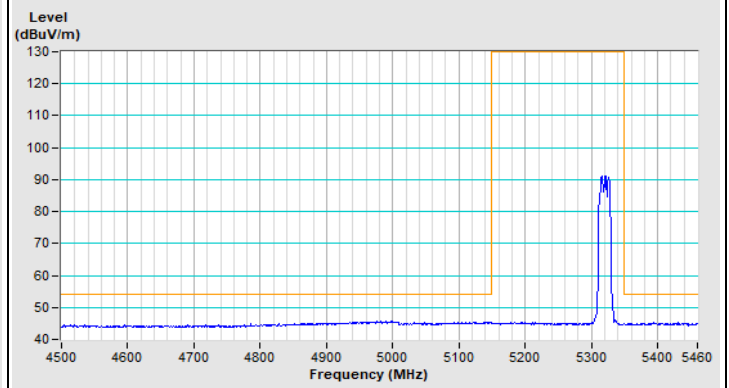
802.11a Channel 52



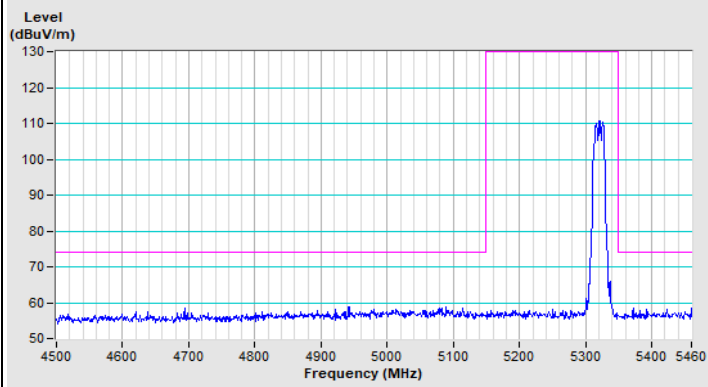
802.11a Channel 64



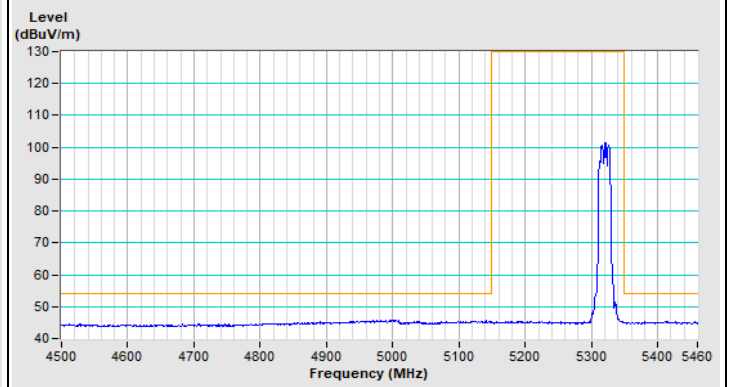
Horizontal (Peak)



Horizontal (Average)



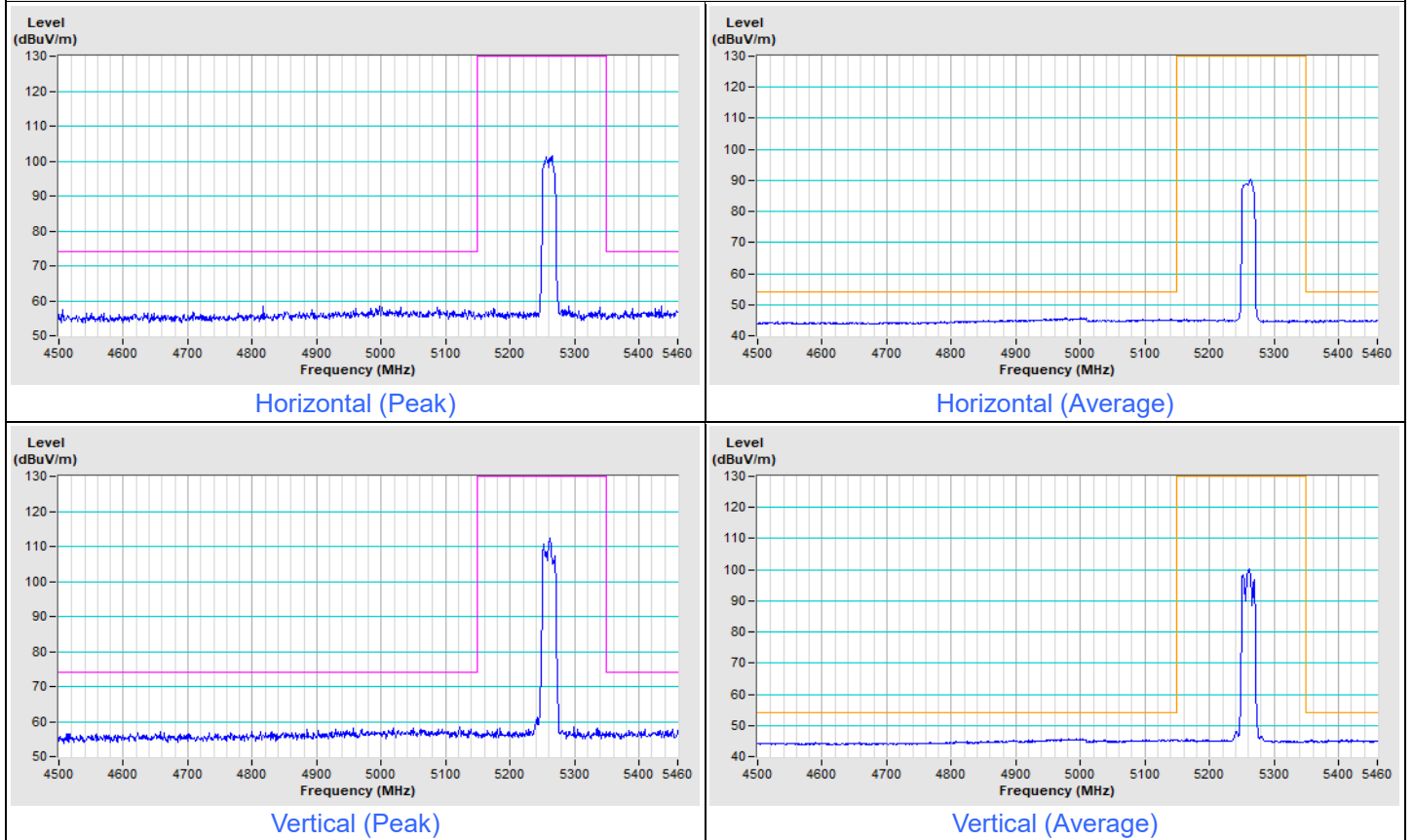
Vertical (Peak)



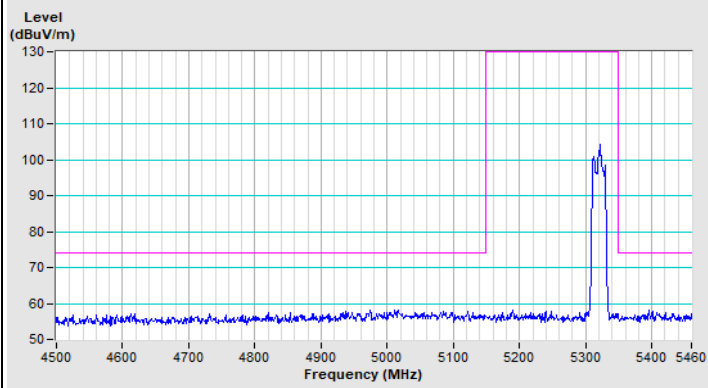
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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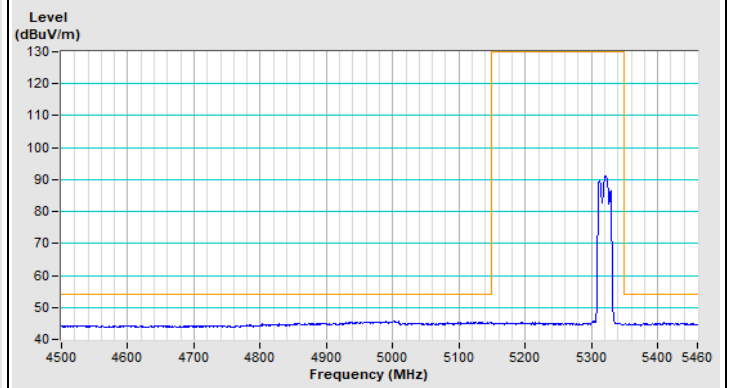
802.11ax (HE20) Channel 52



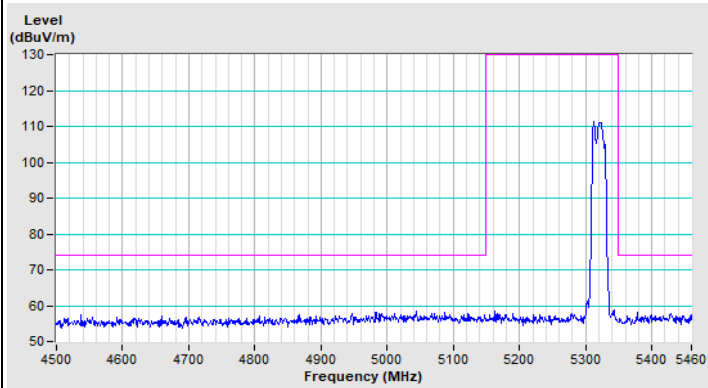
802.11ax (HE20) Channel 64



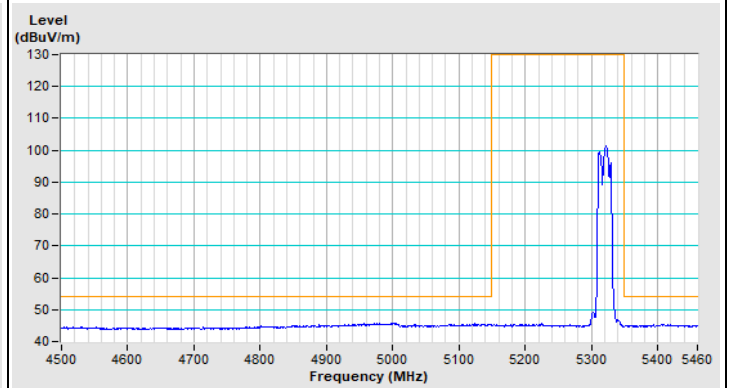
Horizontal (Peak)



Horizontal (Average)



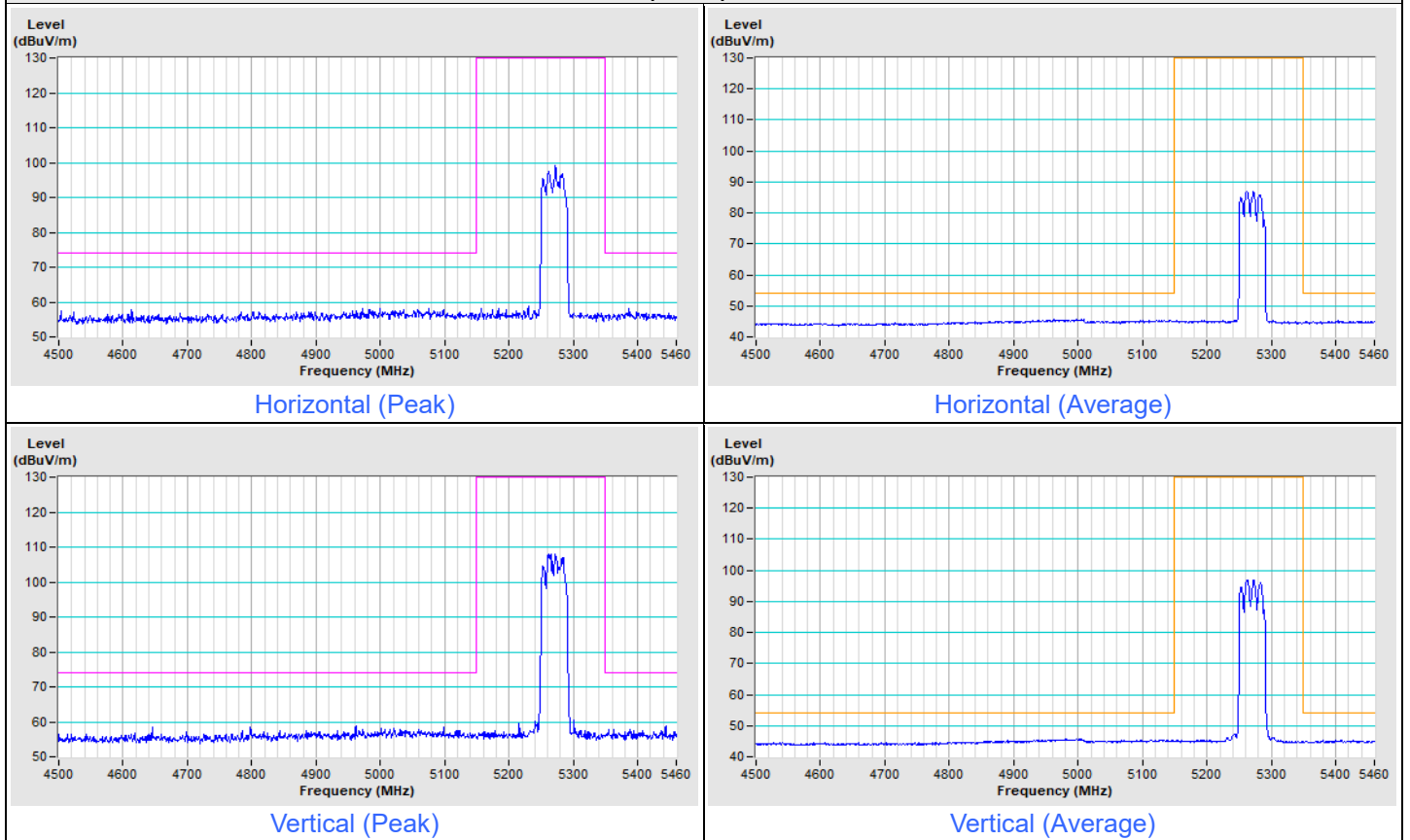
Vertical (Peak)



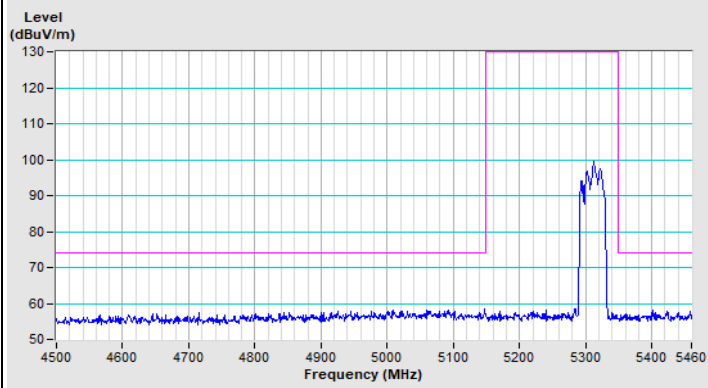
Vertical (Average)

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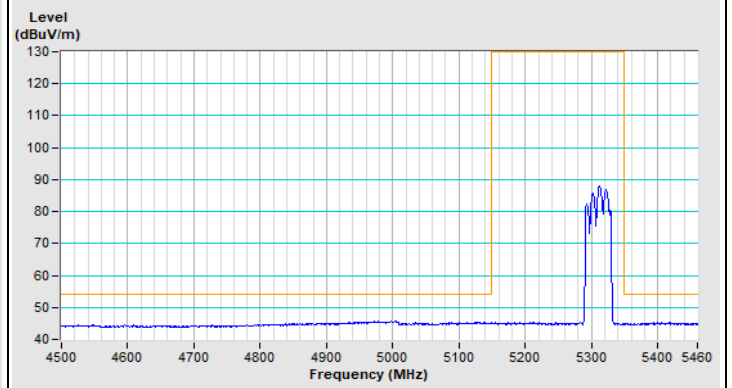
802.11ax (HE40) Channel 54



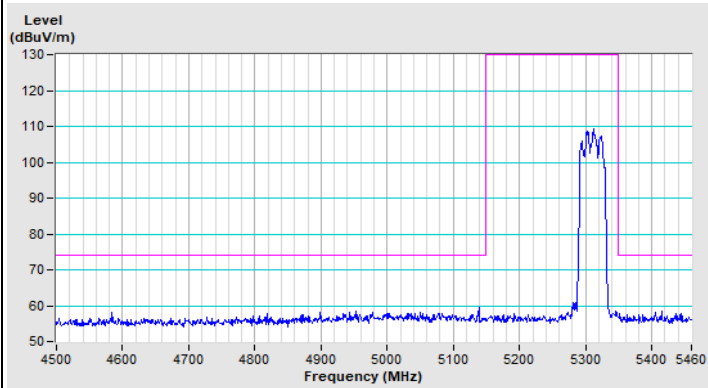
802.11ax (HE40) Channel 62



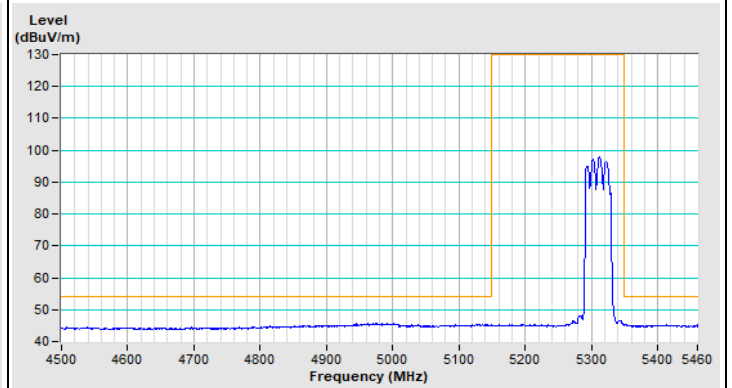
Horizontal (Peak)



Horizontal (Average)



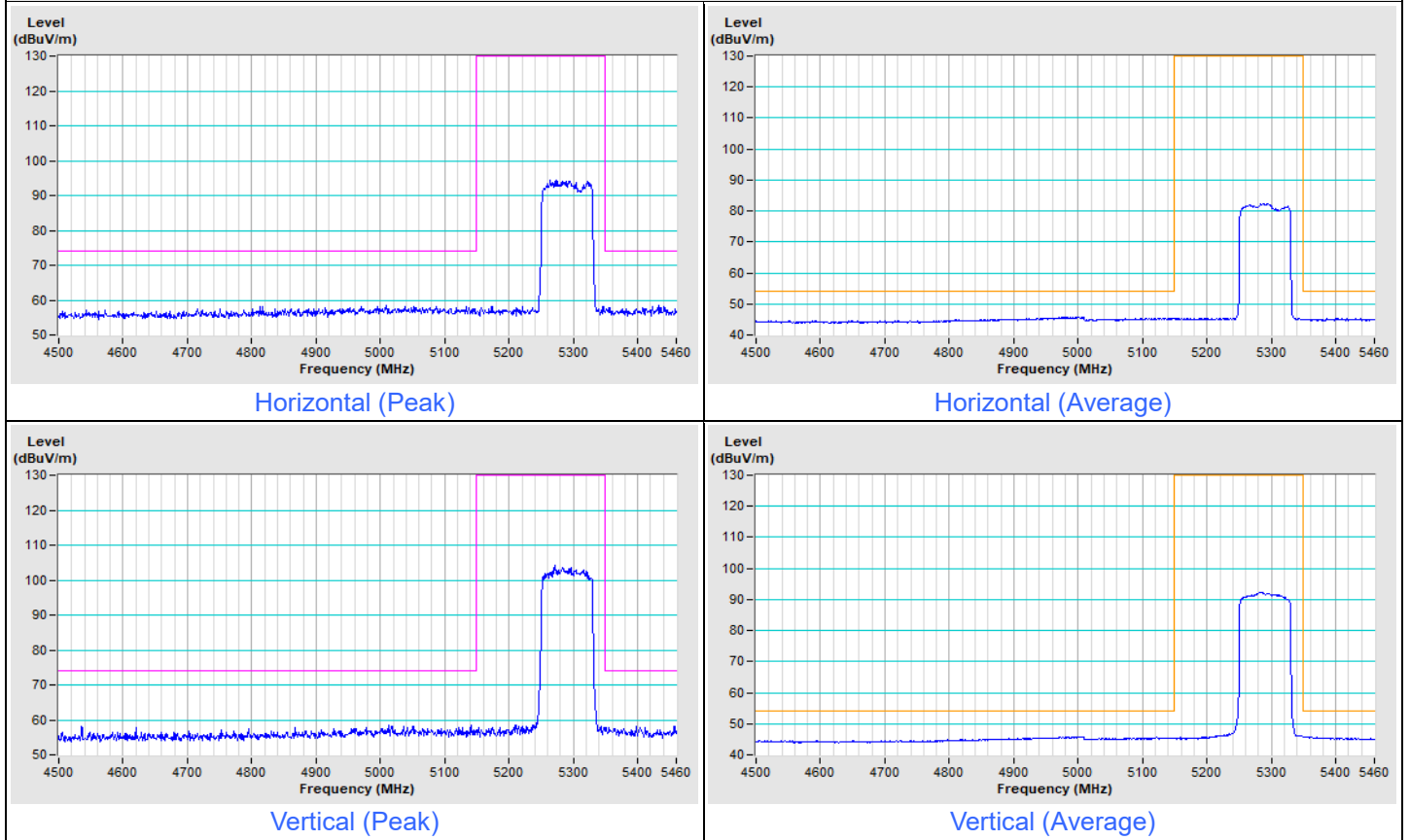
Vertical (Peak)



Vertical (Average)

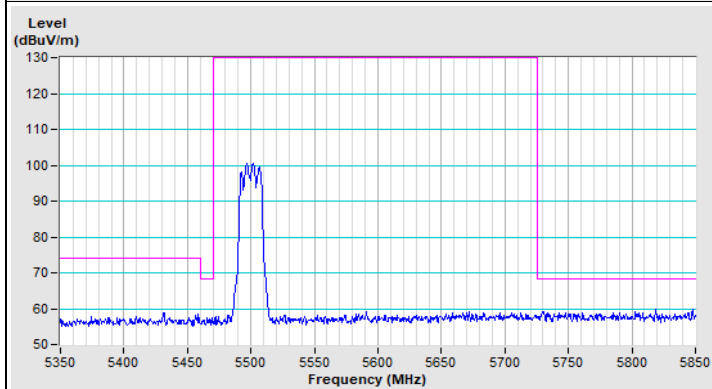
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE80) Channel 58

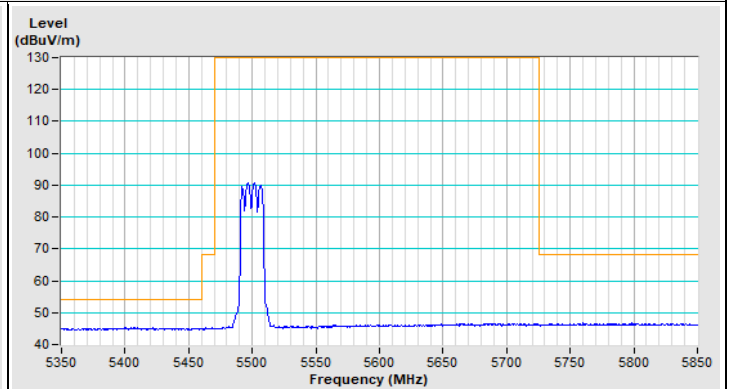


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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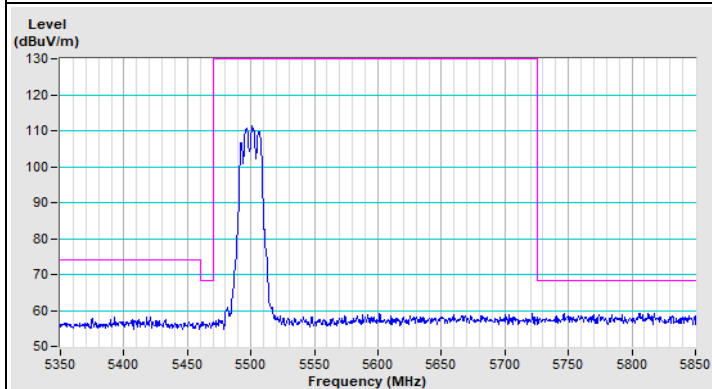
802.11a Channel 100



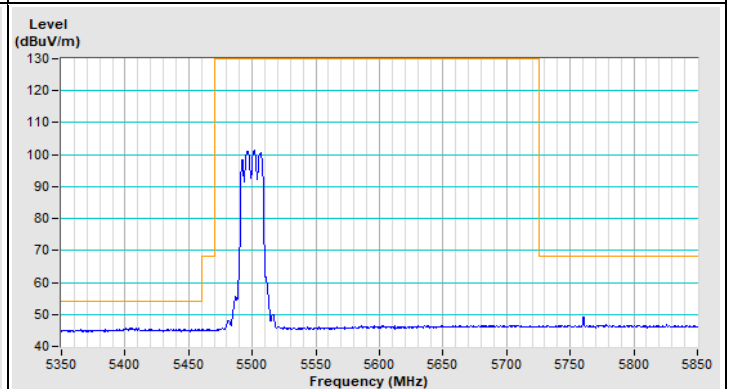
Horizontal (Peak)



Horizontal (Average)

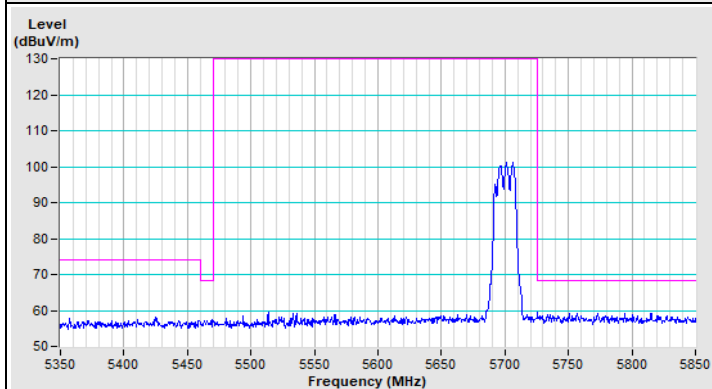


Vertical (Peak)

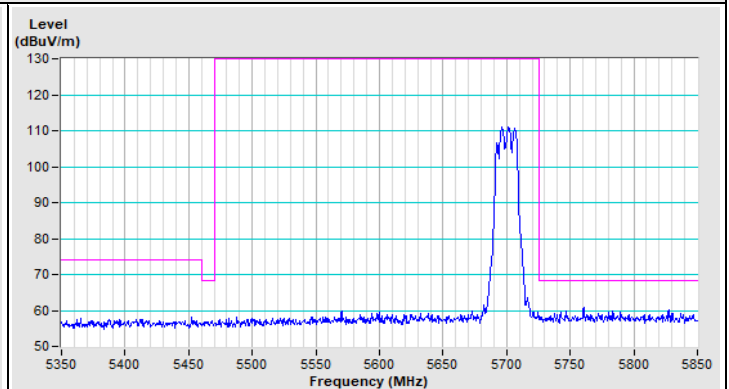


Vertical (Average)

802.11a Channel 140



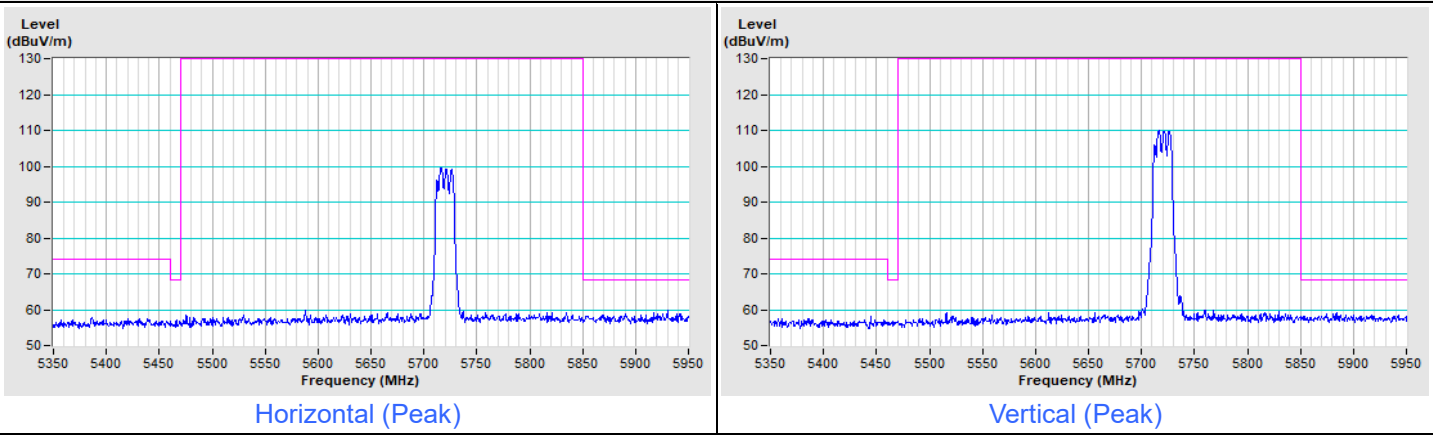
Horizontal (Peak)



Vertical (Peak)

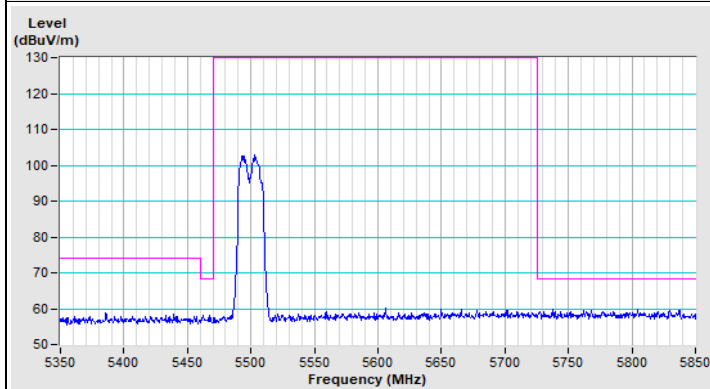
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11a Channel 144

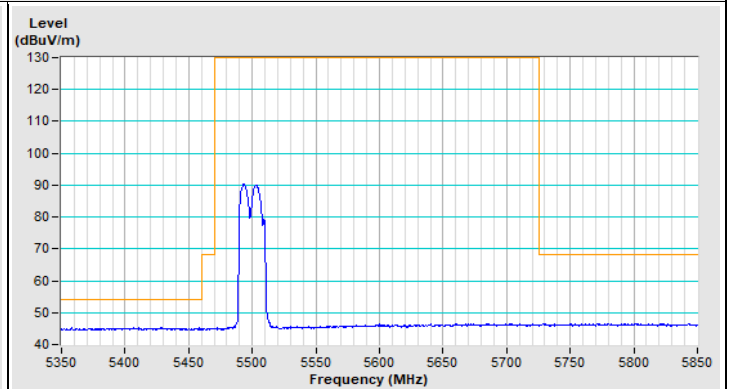


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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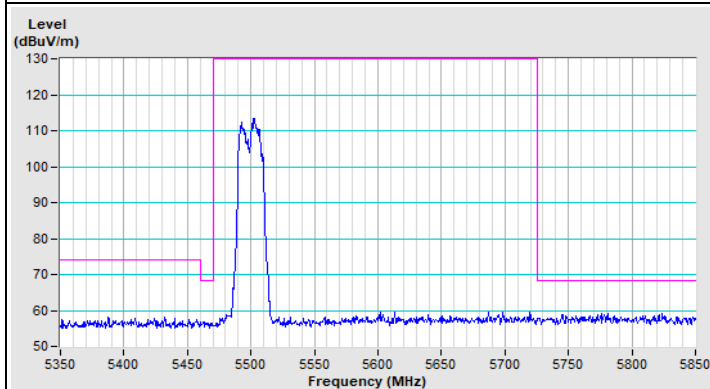
802.11ax (HE20) Channel 100



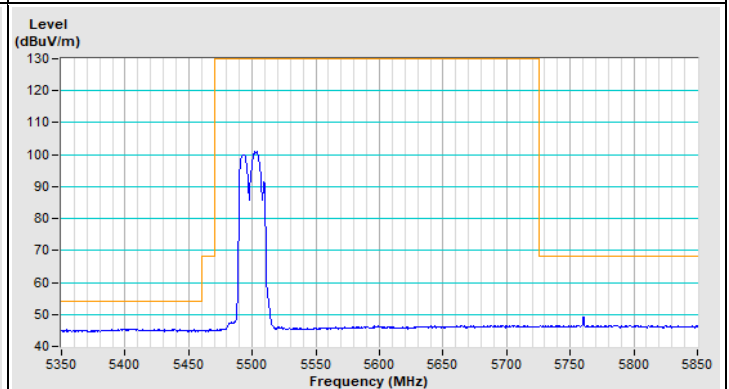
Horizontal (Peak)



Horizontal (Average)

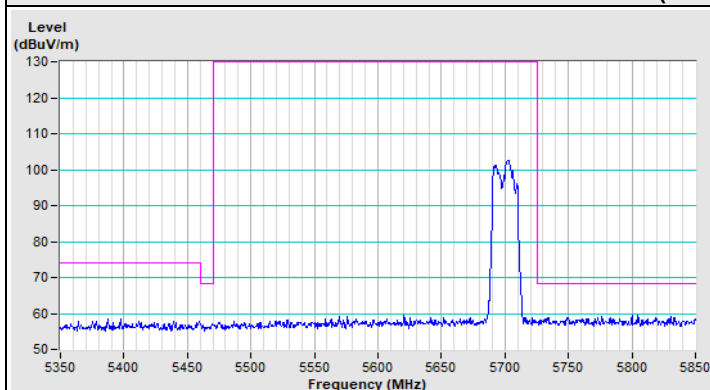


Vertical (Peak)

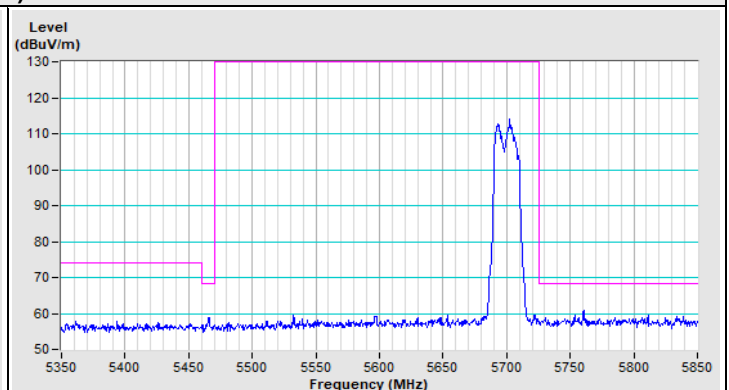


Vertical (Average)

802.11ax (HE20) Channel 140



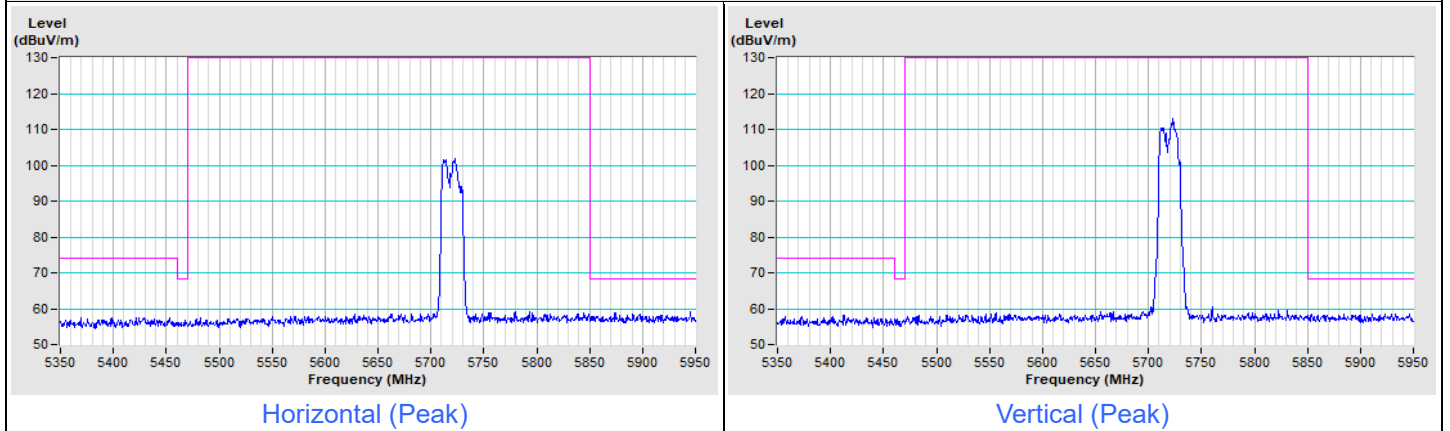
Horizontal (Peak)



Vertical (Peak)

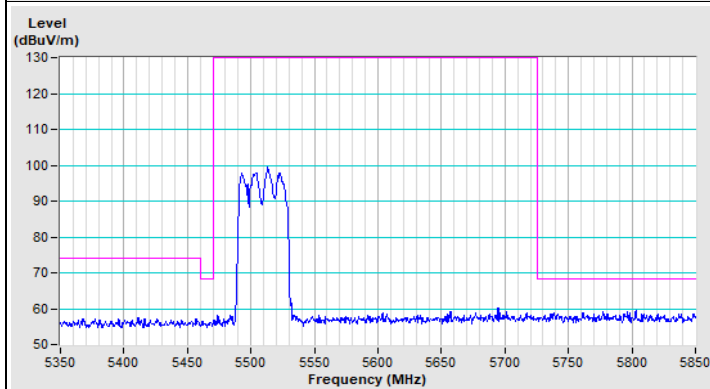
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE20) Channel 144

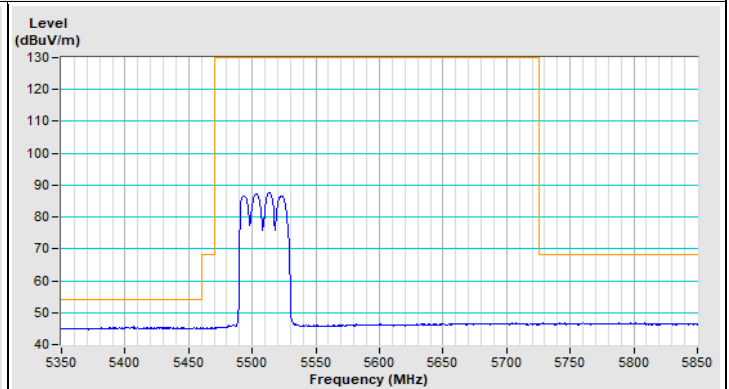


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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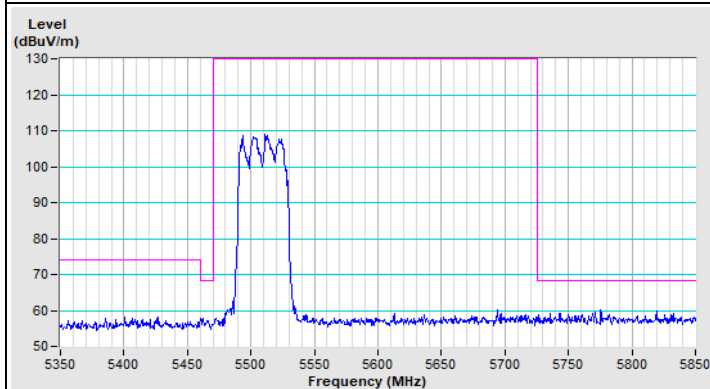
802.11ax (HE40) Channel 102



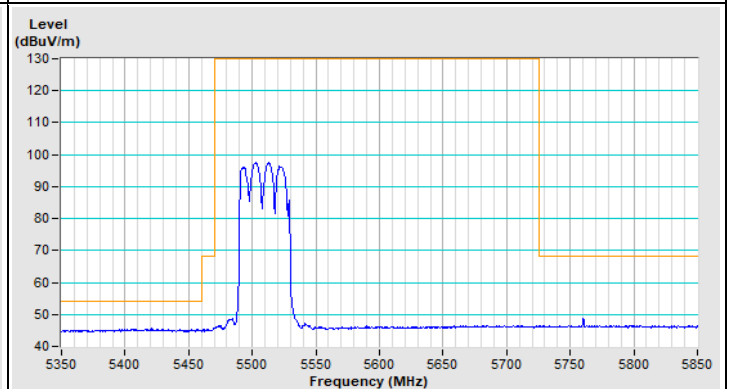
Horizontal (Peak)



Horizontal (Average)

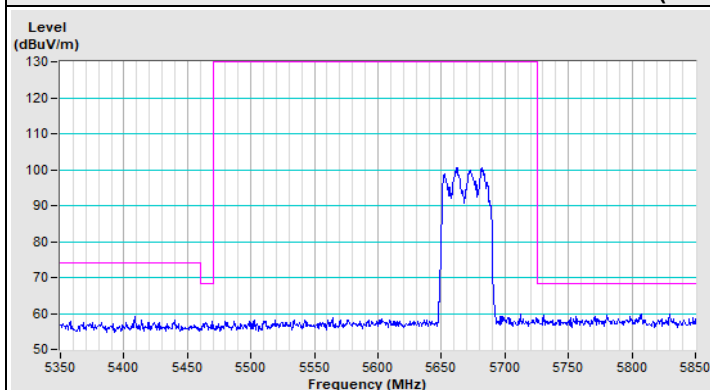


Vertical (Peak)

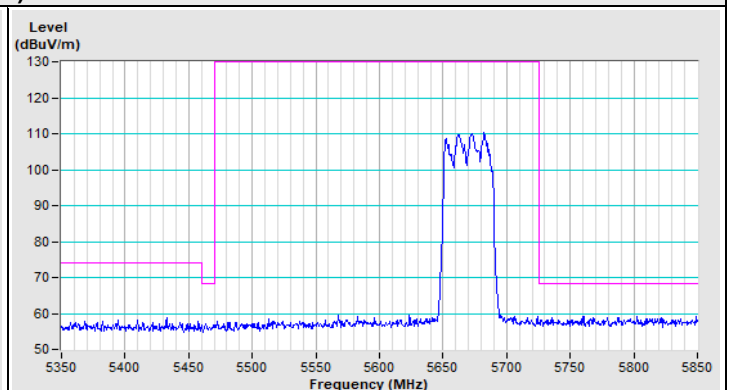


Vertical (Average)

802.11ax (HE40) Channel 134



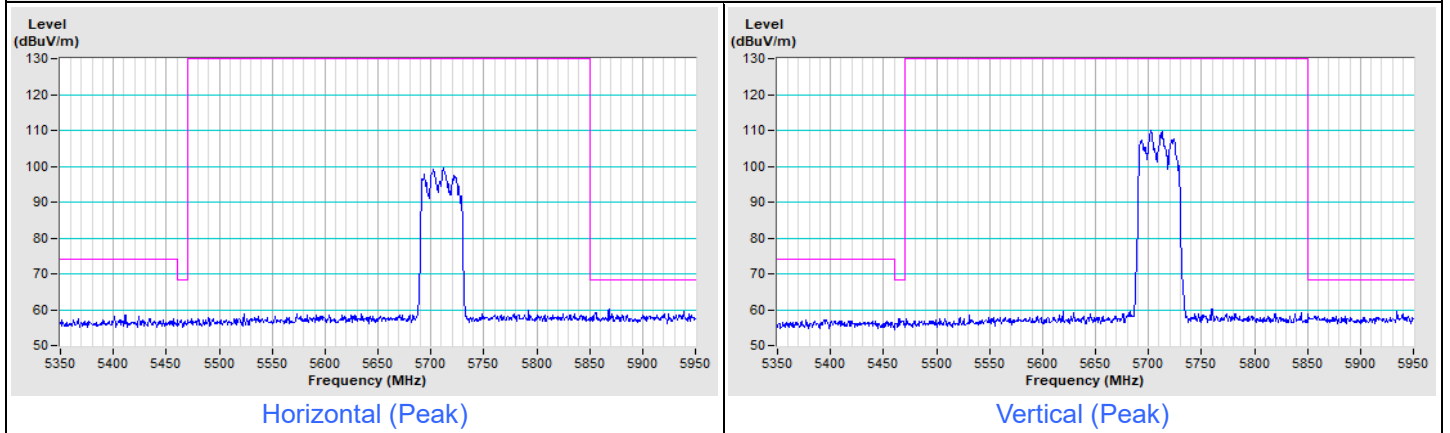
Horizontal (Peak)



Vertical (Peak)

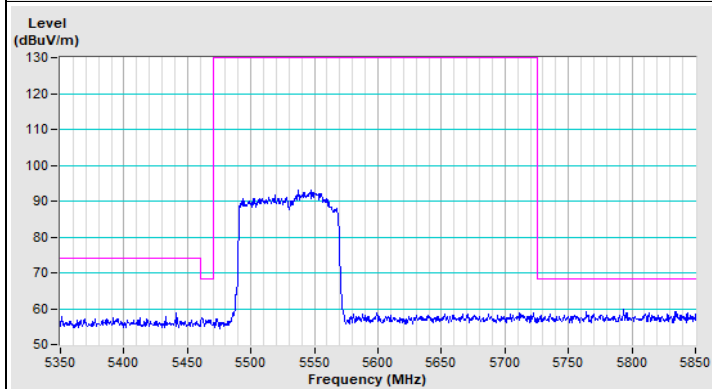
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE40) Channel 142

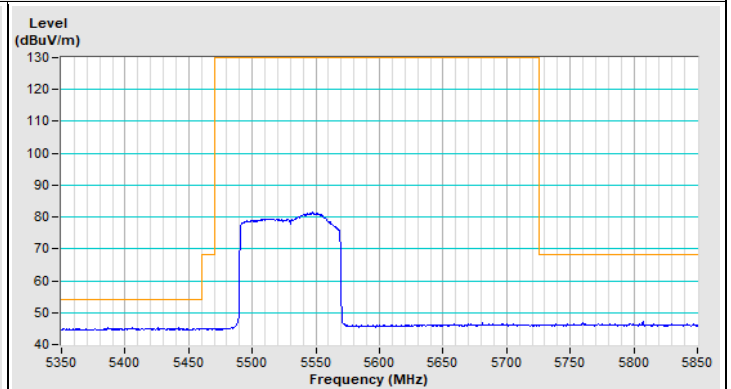


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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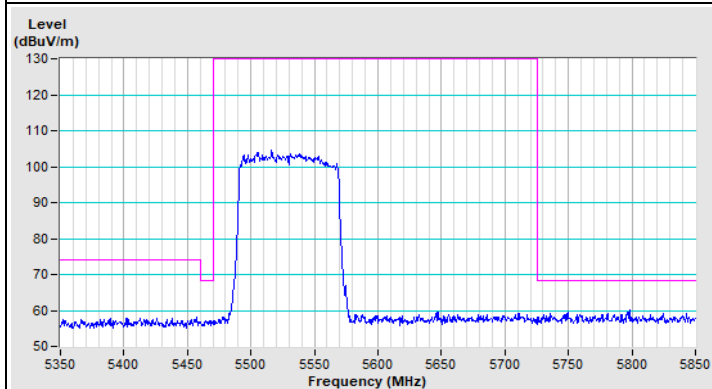
802.11ax (HE80) Channel 106



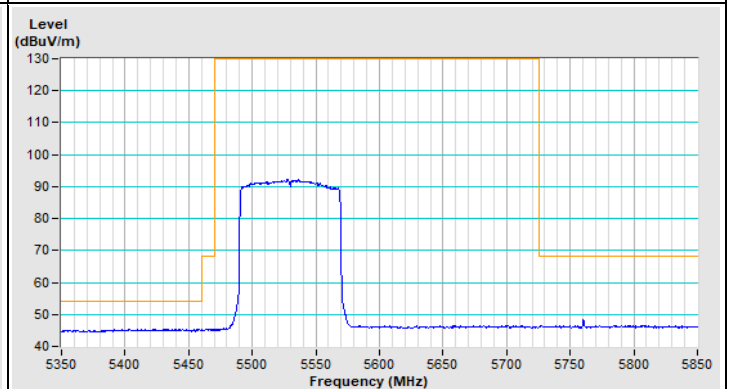
Horizontal (Peak)



Horizontal (Average)

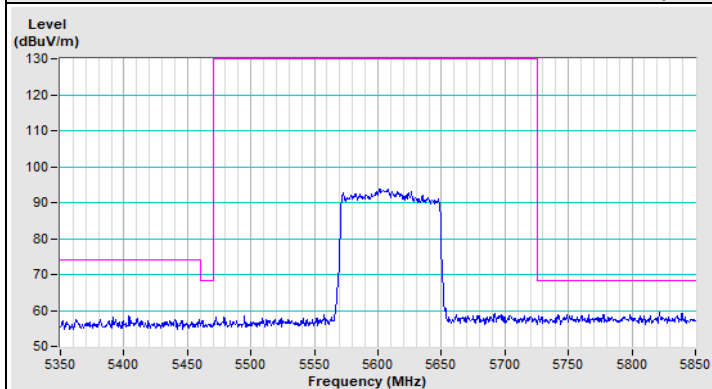


Vertical (Peak)

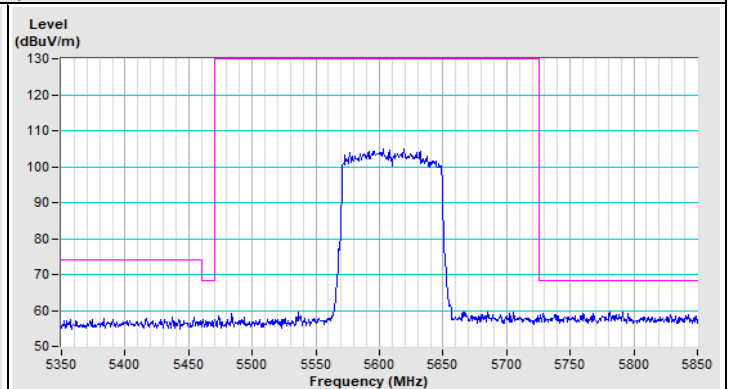


Vertical (Average)

802.11ax (HE80) Channel 122

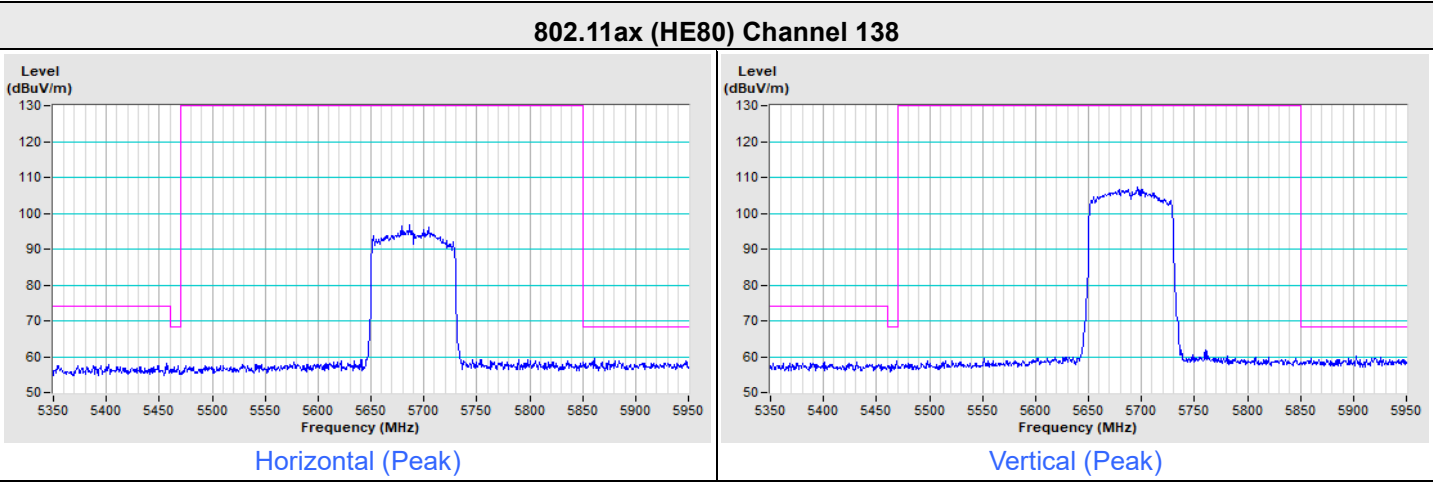


Horizontal (Peak)



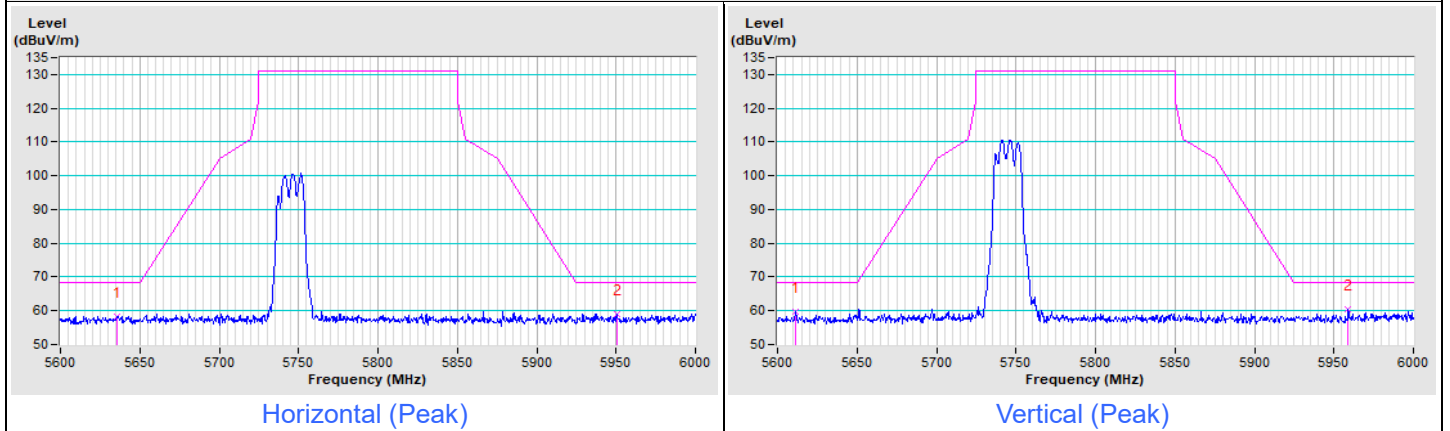
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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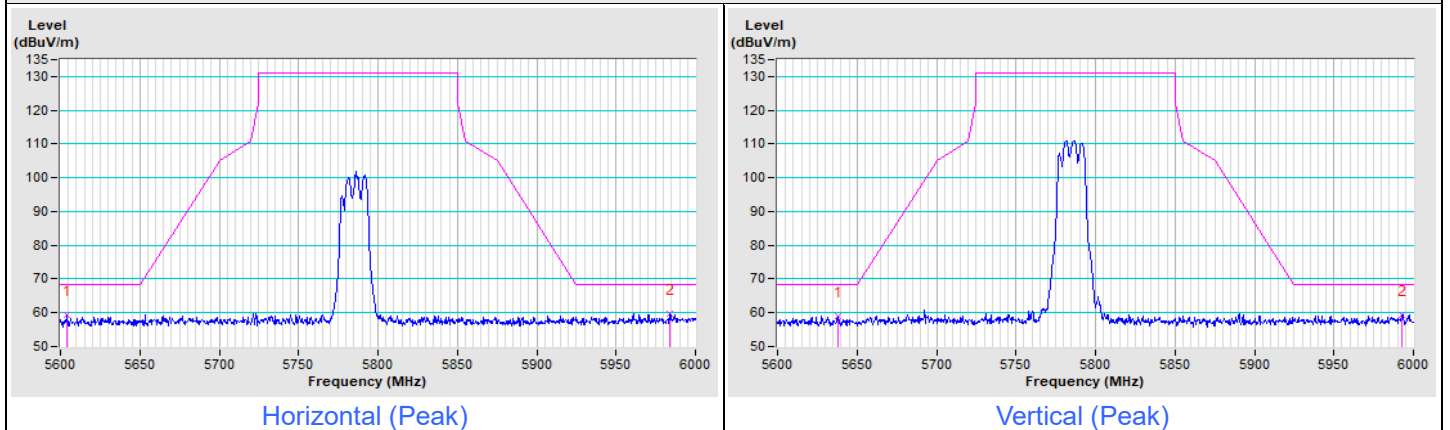


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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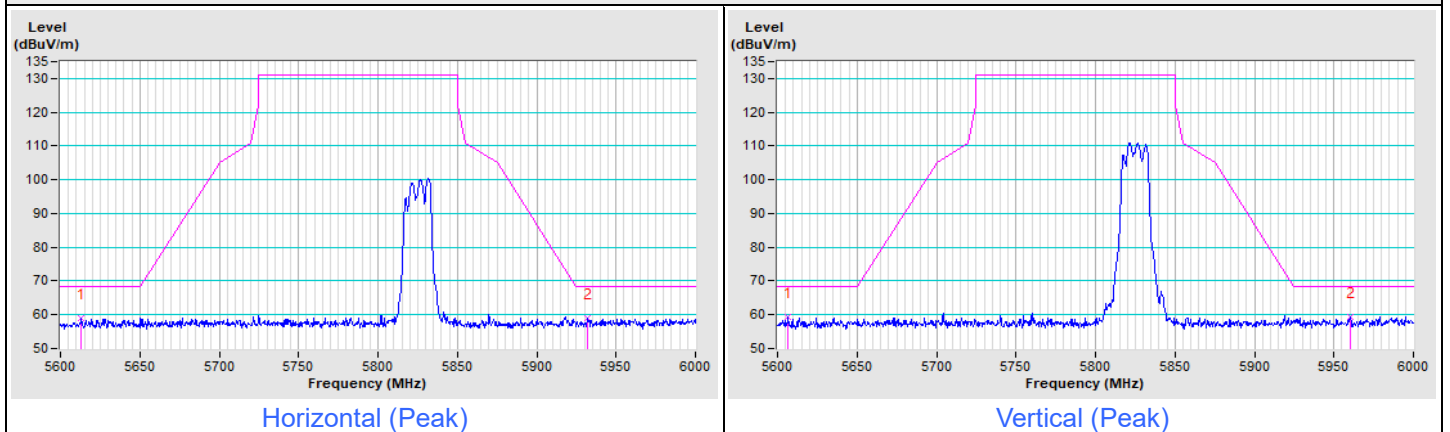
802.11a Channel 149



802.11a Channel 157

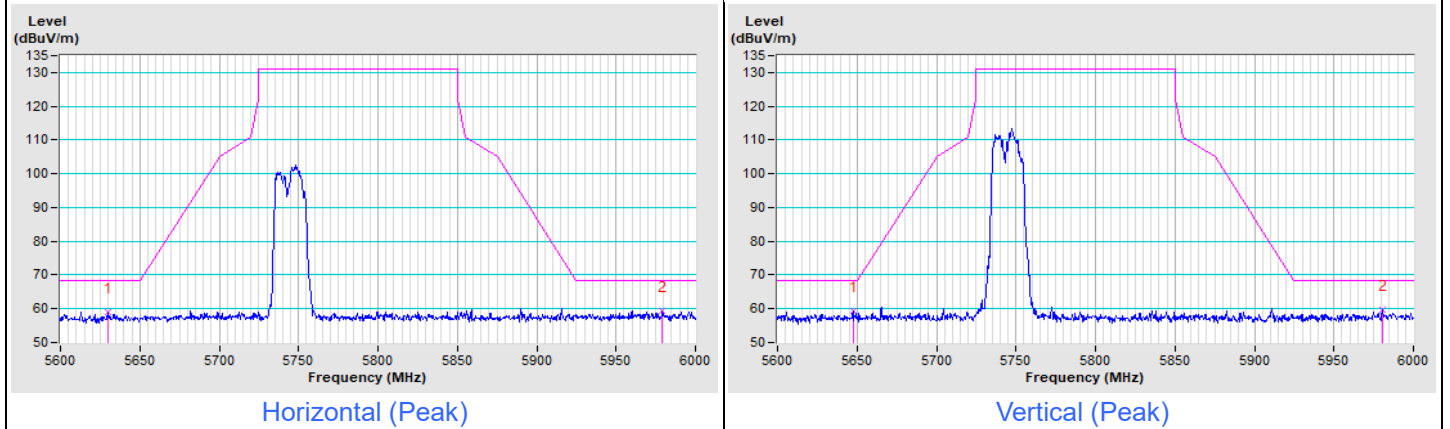


802.11a Channel 165

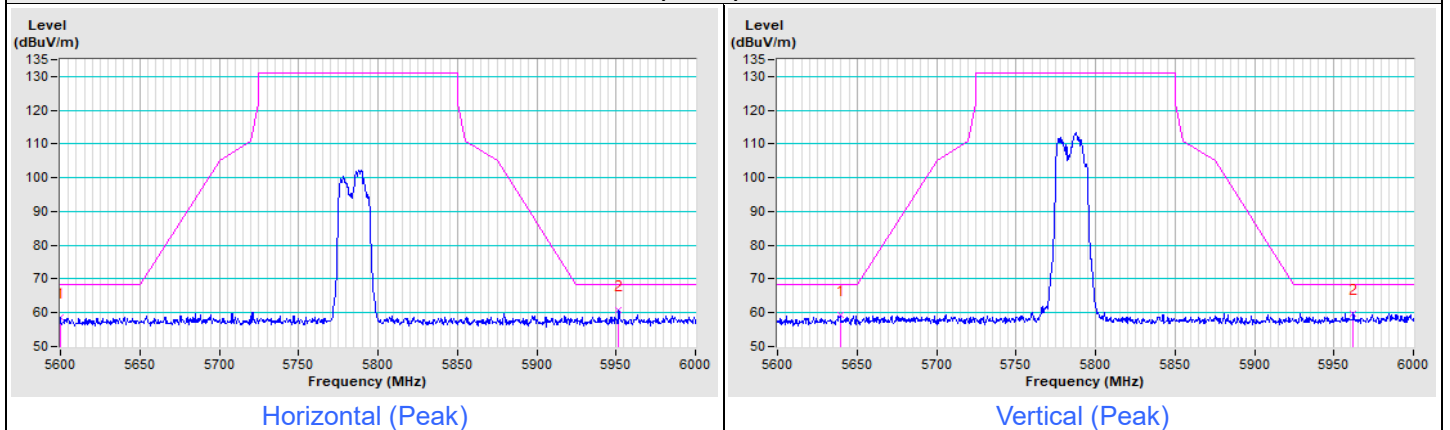


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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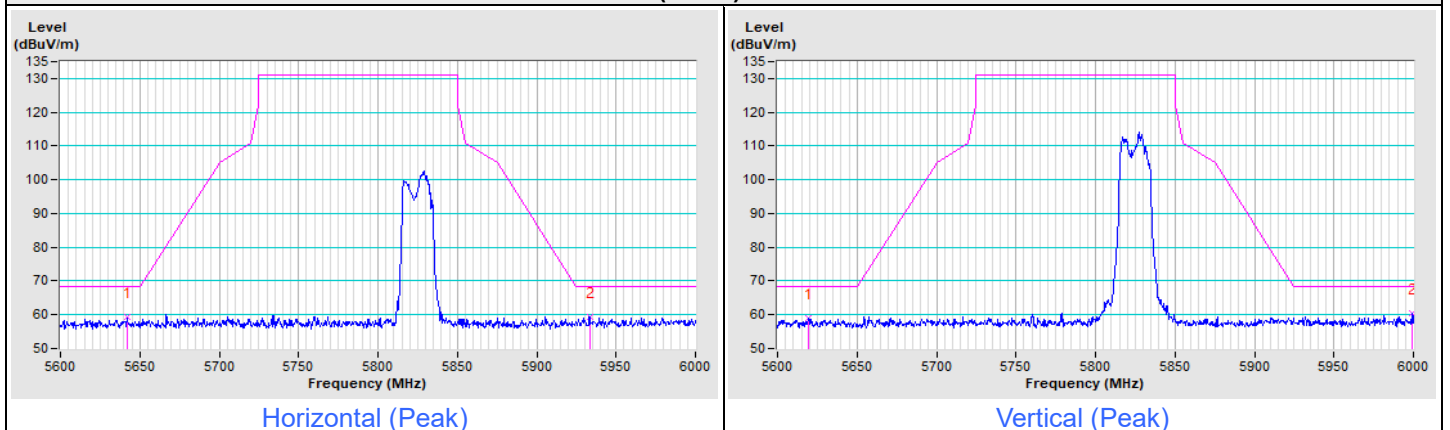
802.11ax (HE20) Channel 149



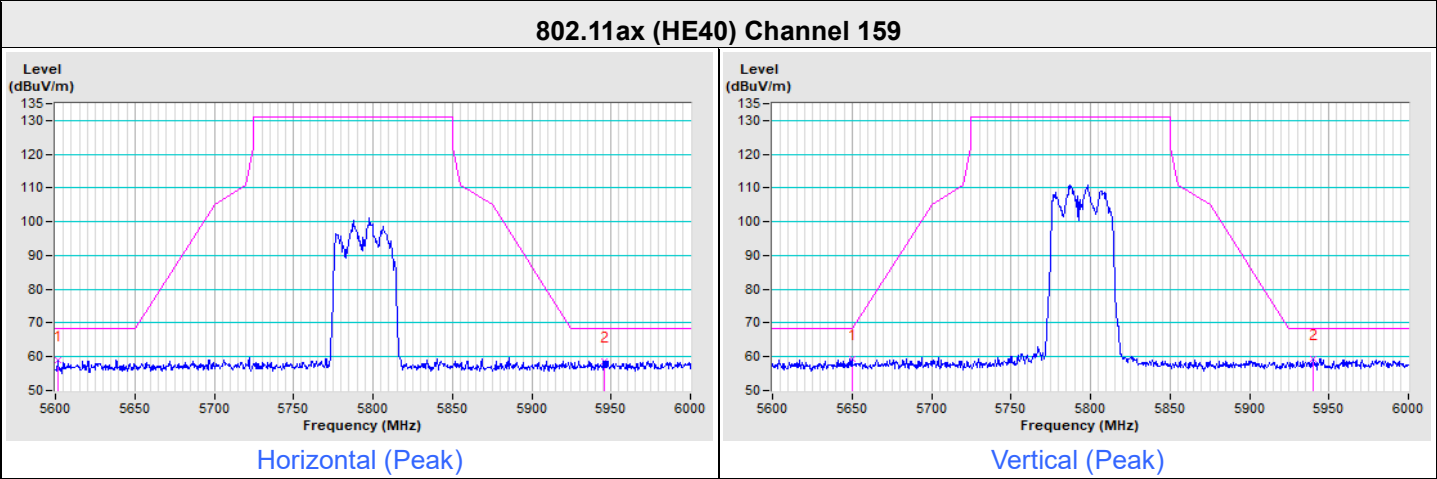
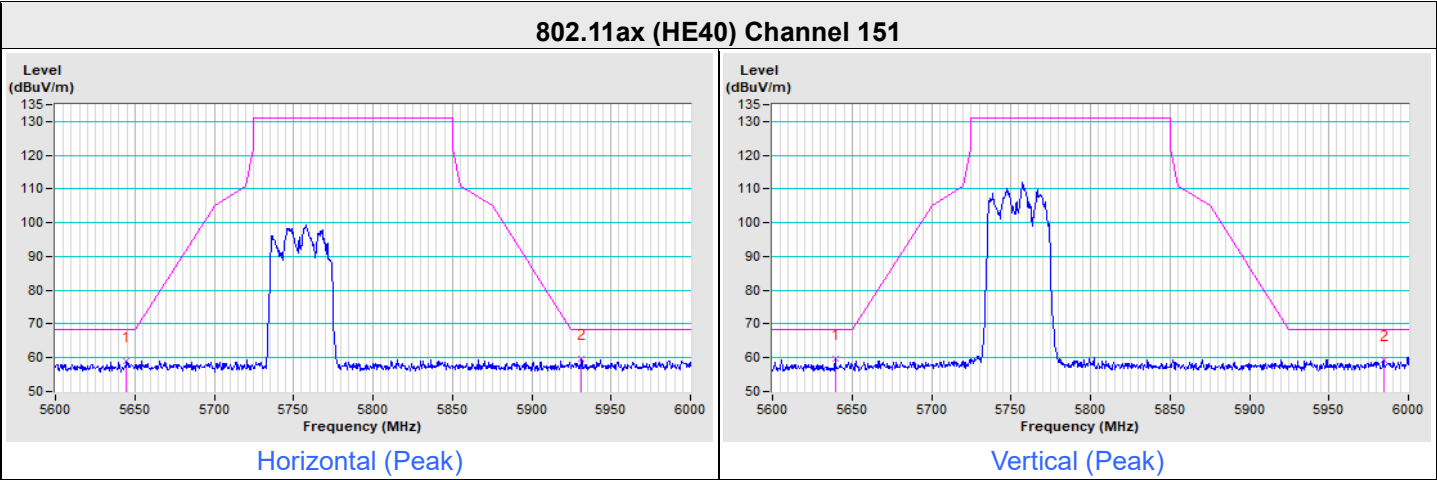
802.11ax (HE20) Channel 157



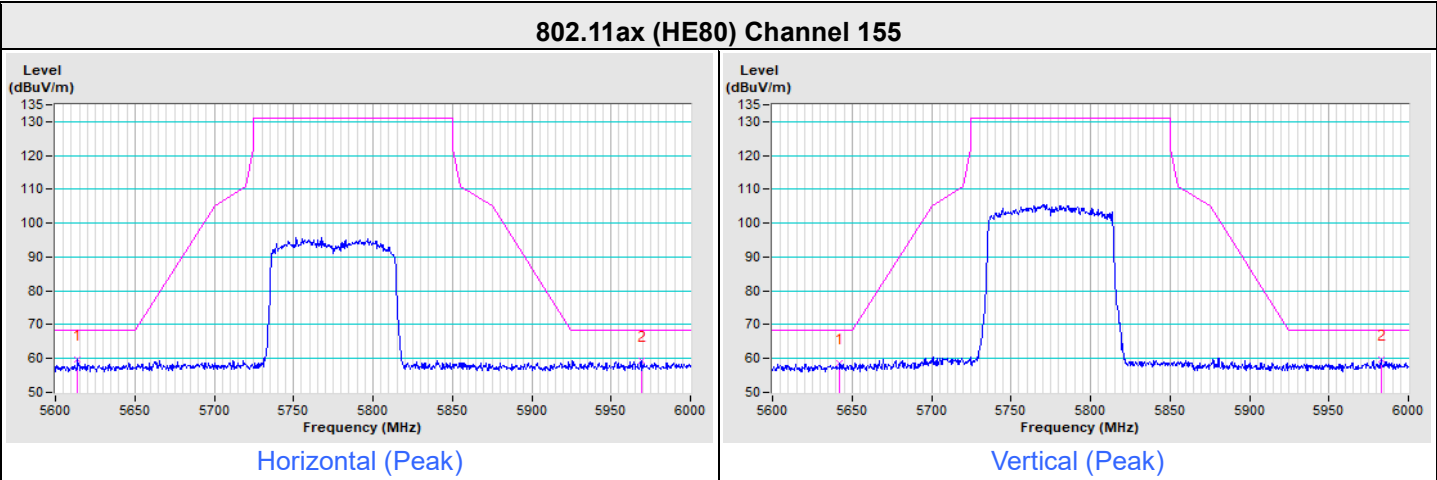
802.11ax (HE20) Channel 165



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