

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBERD-WTW-P23120358-3

FCC ID: JEH7748AX5

Product: AX5

Brand: NCR Voyix

Model No.: 7748

Received Date: 2023/12/15

Test Date: 2023/12/21 ~ 2023/12/28

Issued Date: 2024/2/5

Applicant: NCR Voyix Corporation

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

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FCC Registration /
Designation Number: 788550 / TW0003

Approved by: _____

Jeremy Lin

, Date: _____

2024/2/5

Jeremy Lin / Project Engineer

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Prepared by : Pettie Chen / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBERD-WTW-P23120358-3	Original release.	2024/2/5

1 Certificate

Product: AX5

Brand: NCR Voyix

Test Model: 7748

Sample Status: Engineering sample

Applicant: NCR Voyix Corporation

Test Date: 2023/12/21 ~ 2023/12/28

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

Measurement procedure: ANSI C63.10-2013

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	Pass	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -7.15 dB at 0.43370 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -6.0 dB at 745.86 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 -2.5 dB at 5150.00, 5350.00, 5460.00 and 5725.00 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:

Parameter	Specification	Uncertainty (\pm)
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	2.88 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	AX5
Brand	NCR Voyix
Test Model	7748
Status of EUT	Engineering sample
Power Supply Rating	Refer to Note as below
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 2401.9 Mbps
Operating Frequency	5.18 GHz ~ 5.25 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): 6 802.11ac (VHT160), 802.11ax (HE160): 2
Output Power	5.18 GHz ~ 5.25 GHz : 106.909 mW (20.29 dBm) 5.26 GHz ~ 5.32 GHz : 124.327 mW (20.95 dBm) 5.5 GHz ~ 5.72 GHz : 122.625 mW (20.89 dBm) 5.745 GHz ~ 5.825 GHz : 123.468 mW (20.92 dBm)
EUT Category	Client device

Note:

- The EUT uses following accessories.

CPU		
Brand	Model	
Qualcomm	QCS5430	
BT/WLAN Module		
Brand		
Qualcomm WCN6750		
AC Adapter		
Brand	Model	Specification
FSP	FSP150-A24C14	AC Input : 100-240V, 2A , 50-60Hz DC Output : 24V , 6.25A
Power cord		
Brand	Model	Specification
N/A	N/A	3m
Type C to Type C cable		
Brand	Model	
N/A	N/A	

- 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.

Ant. No.	RF Chain No.	Antenna Net Gain (dBi)	Frequency	Antenna Type	Connector Type
1	0	0.4	5150MHz	PIFA	ipex(MHF)
1	0	0.1	5550MHz	PIFA	ipex(MHF)
1	0	-0.8	5850MHz	PIFA	ipex(MHF)
2	1	-0.4	5150MHz	PIFA	ipex(MHF)
2	1	-0.1	5550MHz	PIFA	ipex(MHF)
2	1	0.7	5850MHz	PIFA	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
802.11ac (VHT160)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz), therefore the manufacturer will control the power for 802.11n/ac mode is same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

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

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720 MHz

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

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

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

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

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

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

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

Channel	Frequency
114	5570 MHz

FOR 5745 ~ 5825 MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	The EUT is designed to be positioned on the X-axis only.
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Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ax (HE20)	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ax (HE40)	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ax (HE80)	58, 106, 122, 138	BPSK	MCS0
	802.11ax (HE160)	50, 114	BPSK	MCS0
RF Output Power	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	50, 114	BPSK	MCS0
Power Spectral Density	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	50, 114	BPSK	MCS0
6 dB Bandwidth	802.11a	144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	138, 155	BPSK	MCS0
Occupied Bandwidth	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	50, 114	BPSK	MCS0
Frequency Stability	802.11a	36	unmodulated	-



Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
AC Power Conducted Emissions	802.11a	60	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	802.11a	60	BPSK	6Mb/s
Unwanted Emissions above 1 GHz	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	50, 114	BPSK	MCS0

3.5 Duty Cycle of Test Signal

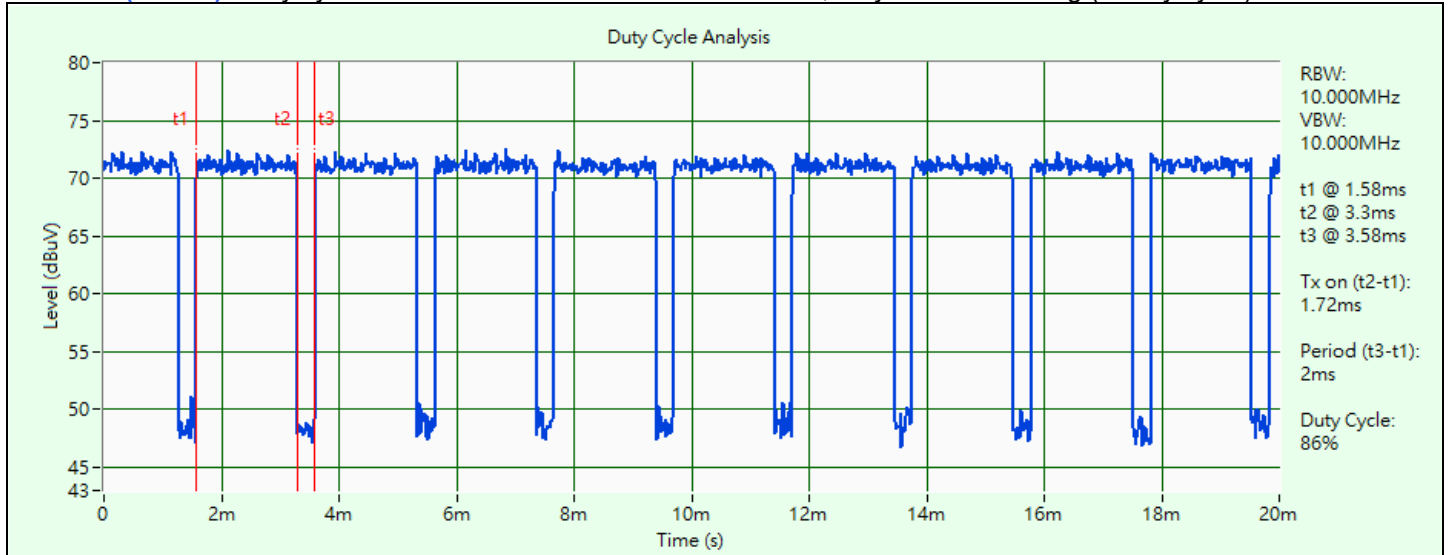
802.11a: Duty cycle = 1.72 ms / 2 ms x 100% = 86.0%, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.66 \text{ dB}$

802.11ax (HE20): Duty cycle = 1.4 ms / 1.645 ms x 100% = 85.1%, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.70 \text{ dB}$

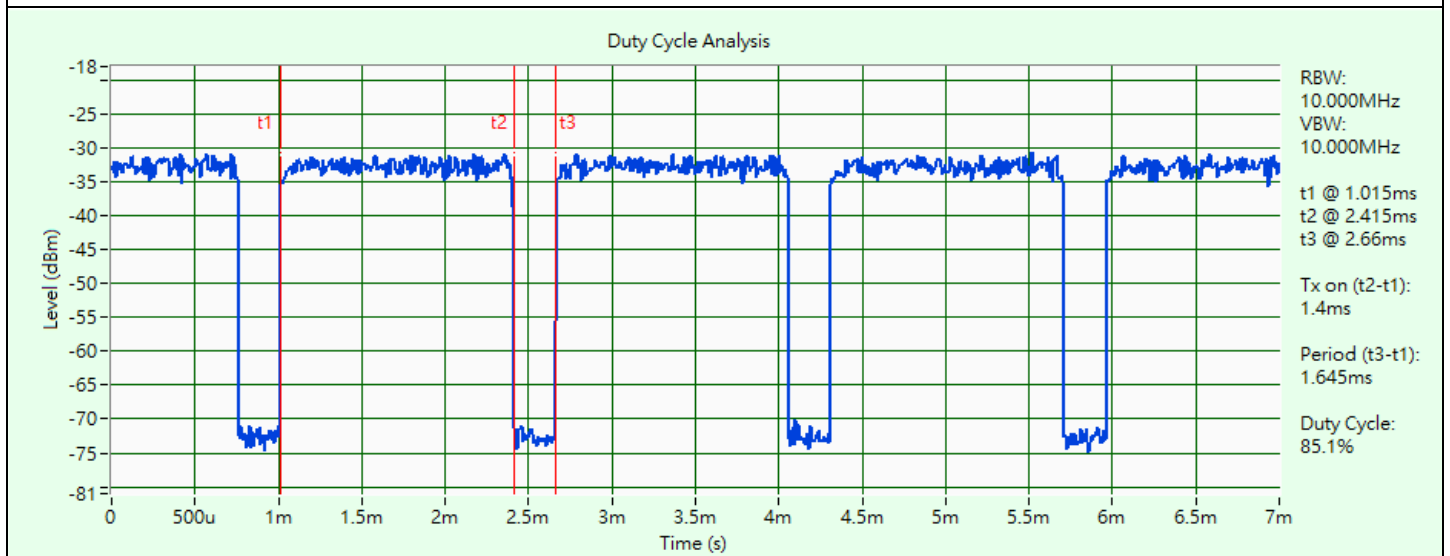
802.11ax (HE40): Duty cycle = 0.726 ms / 0.861 ms x 100% = 84.3%, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.74 \text{ dB}$

802.11ax (HE80): Duty cycle = 0.552 ms / 0.654 ms x 100% = 84.4%, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.74 \text{ dB}$

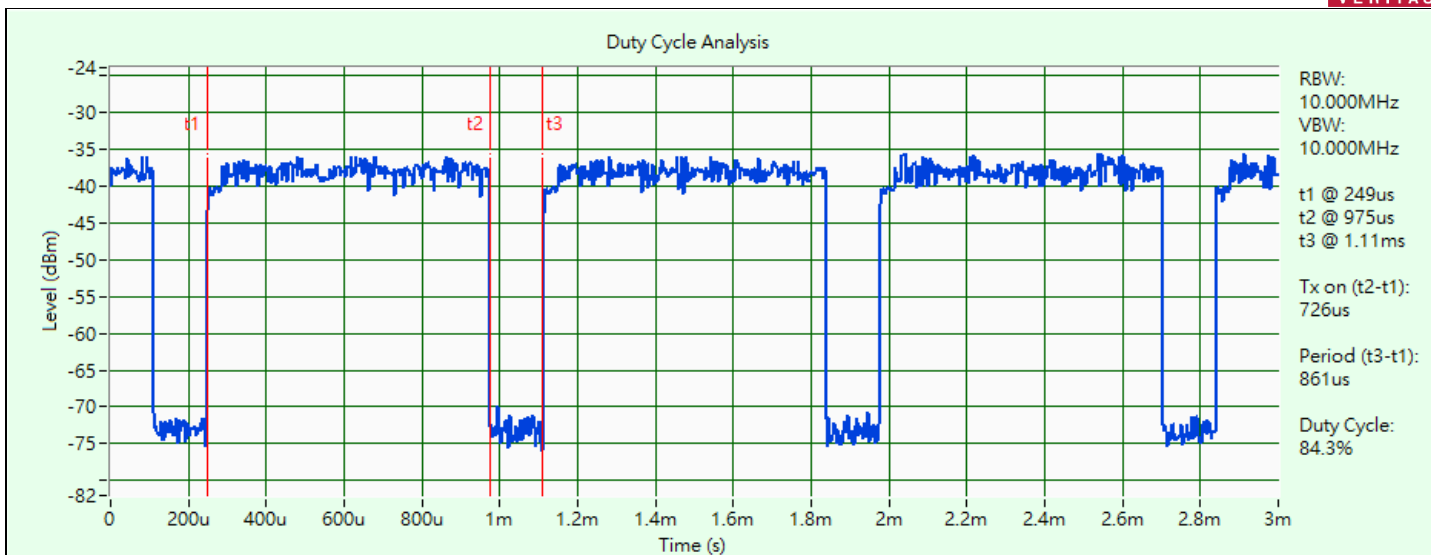
802.11ax (HE160): Duty cycle = 0.555 ms / 0.66 ms x 100% = 84.1%, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.75 \text{ dB}$



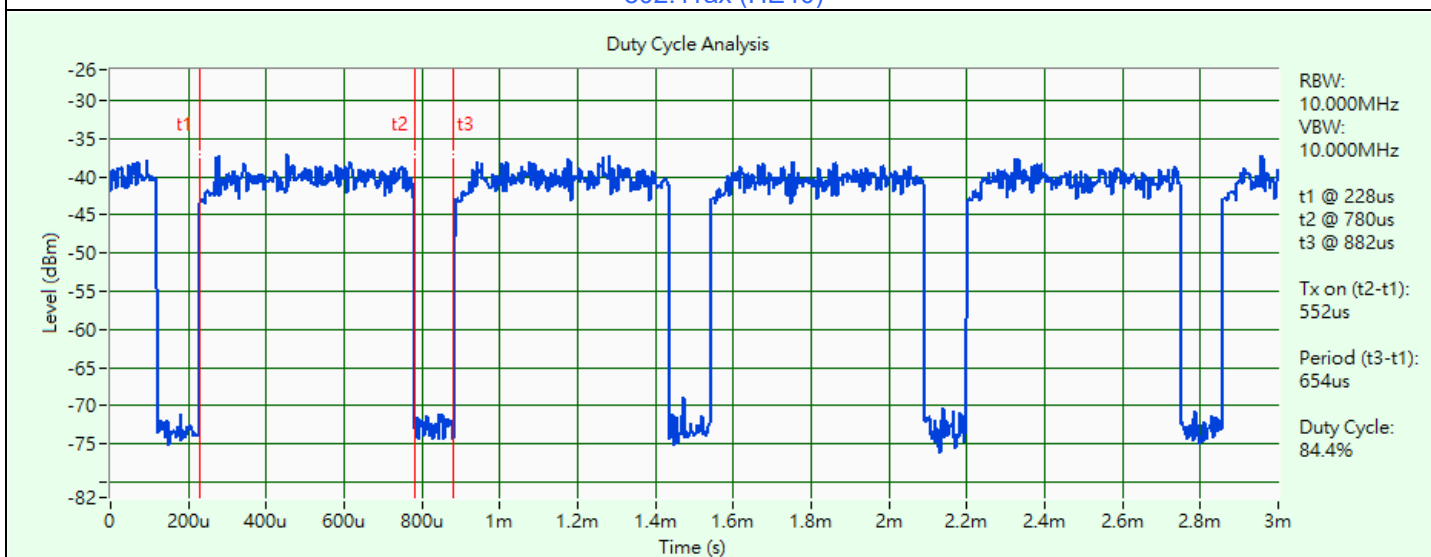
802.11a



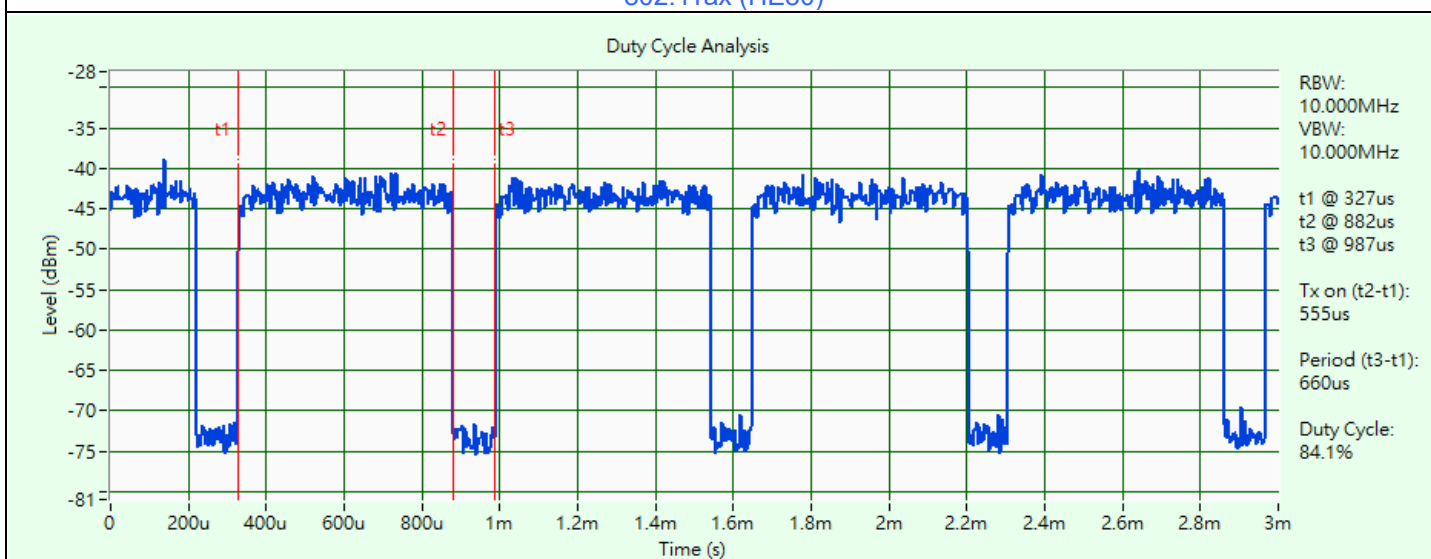
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)

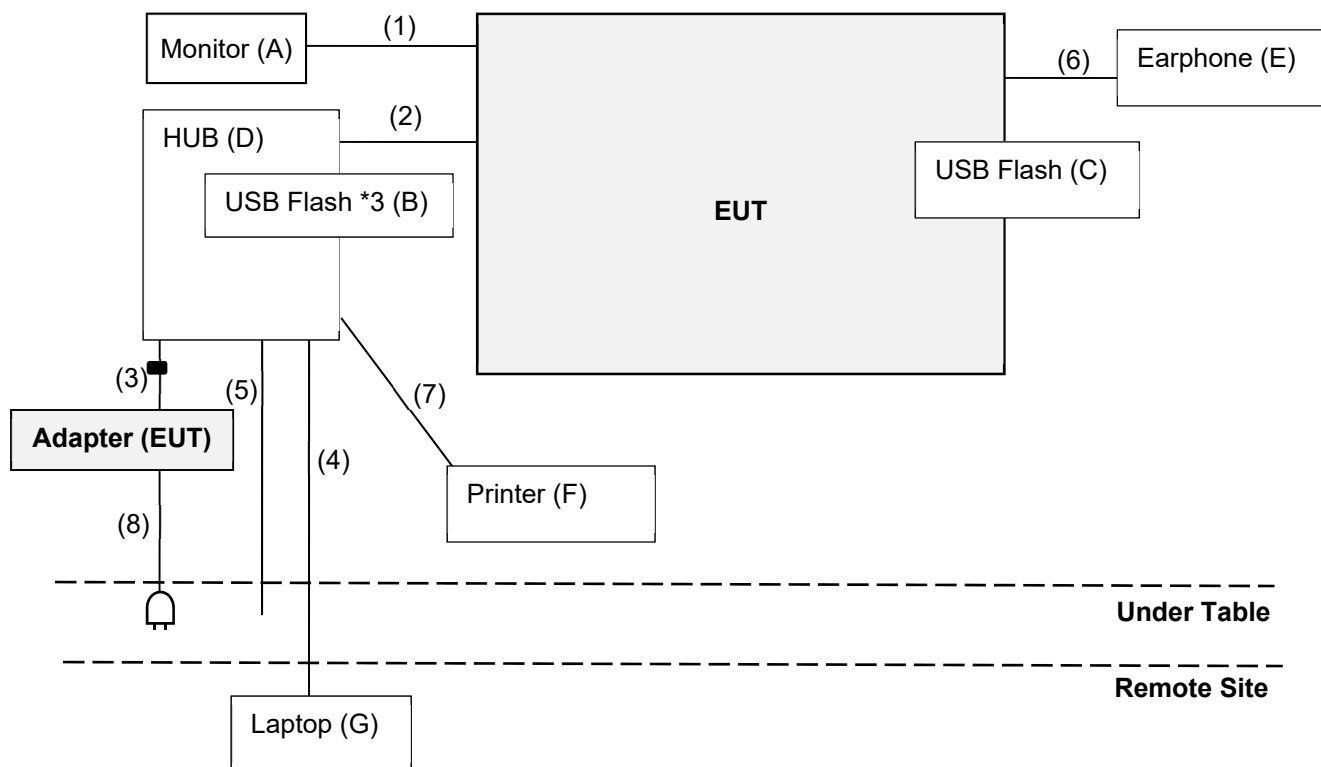


802.11ax (HE160)

3.6 Test Program Used and Operation Descriptions

Controlling software QRCT_4.0.209.0 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Monitor	NCR	1607-0000-9090	N/A	N/A	Supplied by applicant
B.	USB Flash*3	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
C.	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
D.	HUB	N/A	N/A	N/A	N/A	Supplied by applicant
E.	Earphone	APPLE	MB77PFEB	N/A	N/A	Provided by Lab
F.	Printer	NCR	N/A	N/A	N/A	Supplied by applicant
G.	Laptop	Lenovo	L440	R9-0GFJKK	N/A	Provided by Lab

No.	Cable Descriptions	Qty.	Length (m)	Shielded (Yes/ No)	Cores (Qty.)	Remark
1.	Type-C Cable	1	1.5	Yes	0	Supplied by applicant
2.	Type C to Type C cable	1	2	Yes	0	Accessory of EUT
3.	DC Cable	1	1.5	Yes	1	Accessory of EUT
4.	RJ45 Cable	1	10	No	0	Provided by Lab
5.	RJ11 Cable	1	1.5	No	0	Supplied by applicant
6.	Audio Cable	1	1.2	No	0	Provided by Lab
7.	Type-B Cable	1	1	Yes	0	Supplied by applicant
8.	AC Cable	1	3	No	0	Supplied by applicant

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
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: 2023/12/28

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer Keysight	8990B	MY51000485	2023/1/19	2024/1/18
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Wideband Power Sensor Keysight	N1923A	MY58020002	2023/1/18	2024/1/17
		MY58140009	2023/1/18	2024/1/17

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/12/28

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Supply JIN YIH Technology	6905S	1720444	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2023/7/6	2024/7/5
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	HRM-120RF	931022	2023/12/19	2024/12/18

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/12/28

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance HUBER+SUHNER	E1-011276	01	2023/2/1	2024/1/31
	E1-011312	10	2023/1/30	2024/1/29
	E1-011591	17	2023/2/1	2024/1/31
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2023/11/7	2024/11/6
EMI Test Receiver R&S	ESR3	102783	2023/12/13	2024/12/12
Fixed Attenuator SGH	BNC10W10dB	PAD-COND2-01	2023/9/2	2024/9/1
LISN R&S	ESH2-Z5	100100	2023/3/7	2024/3/6
	ESH3-Z5	100312	2023/9/12	2024/9/11
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2023/9/2	2024/9/1
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2023/8/31	2024/8/30

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2023/12/28

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	2023/10/16	2024/10/15
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/1/3	2024/1/2
Loop Antenna Electro-Metrics	EM-6879	269	2023/9/23	2024/9/22
Loop Antenna TESEQ	HLA 6121	45745	2023/8/8	2024/8/7
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Preamplifier EMCI	EMC 330H	980112	2023/9/27	2024/9/26
	EMC001340	980201	2023/9/27	2024/9/26
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
RF Coaxial Cable Woken	8D-FB	Cable-Ch10-01	2023/9/27	2024/9/26
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2023/12/27

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/1/3	2024/1/2
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2023/11/12	2024/11/11
	BBHA 9170	148	2023/11/12	2024/11/11
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Notch Filter Micro-Tronics	BRM17690	004	2023/1/11	2024/1/10
	BRM50716	060	2023/1/11	2024/1/10
Preamplifier EMCI	EMC 012645	980115	2023/9/27	2024/9/26
	EMC 184045	980116	2023/9/27	2024/9/26
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2023/7/8	2024/7/7
	EMC102-KM-KM-3000	150929	2023/7/8	2024/7/7
	EMC104-SM-SM- 8000+3000	171005	2023/9/27	2024/9/26
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	2023/9/27	2024/9/26
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2023/12/21 ~ 2023/12/22

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

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

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

*B is the 26 dB emission bandwidth in megahertz

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

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

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

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

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

5.3 Power Spectral Density

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

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

5.4 6 dB Bandwidth

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

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

5.7 AC Power Conducted Emissions

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

Notes:

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

5.8 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.9 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

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

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

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

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

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

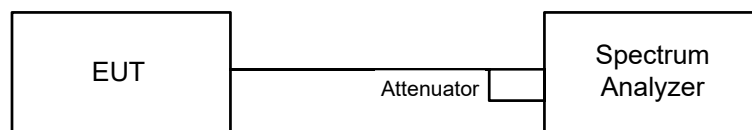
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

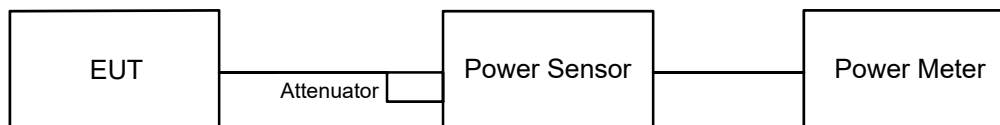


6.1.2 Test Procedure

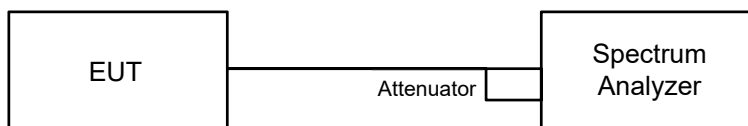
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

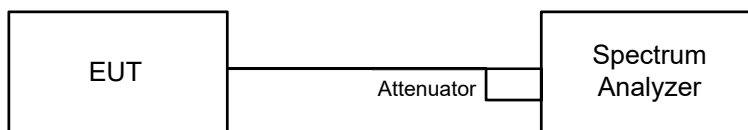
Method SA-2A

- 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.)
- Manually set sweep time ≥ $10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
- Perform a single sweep.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-2

- 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.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add 10 log (1/duty cycle).

For specified measurement bandwidth 1 MHz:

Method SA-2A

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

For specified measurement bandwidth 500 kHz:

Method SA-2

- 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.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add 10 log (1/duty cycle).

For specified measurement bandwidth 500 kHz:

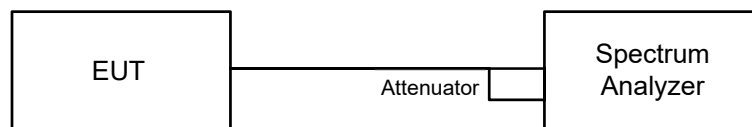
Method SA-2A

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

- e. Manually set sweep time $\geq 10 \times$ (number of points in sweep) \times (total on/off period of the transmitted signal).
- f. Perform a single sweep.
- g. Record the max value and add 10 log (1/duty cycle).

6.4 6 dB Bandwidth

6.4.1 Test Setup

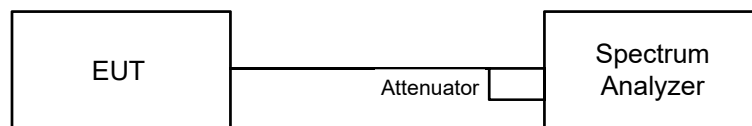


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

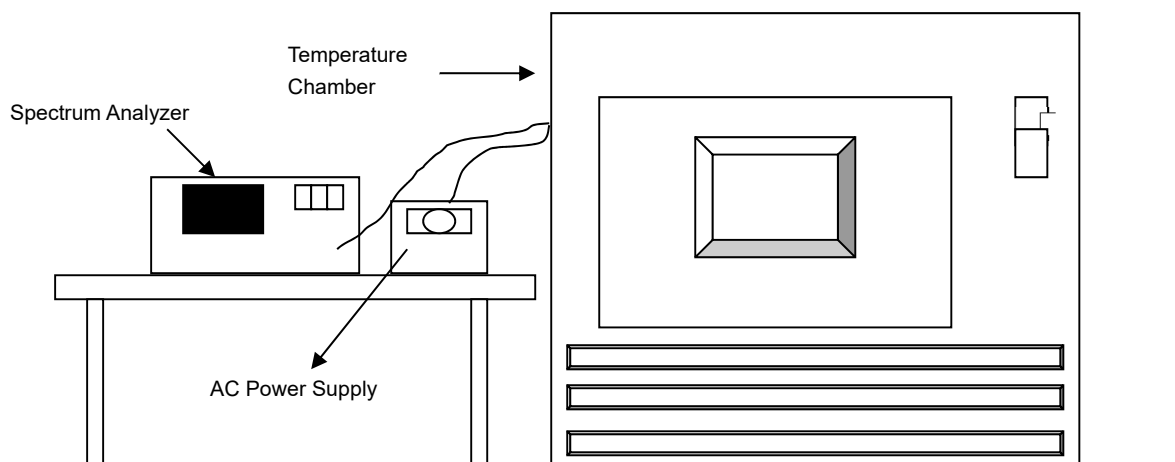


6.5.2 Test Procedure

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

6.6 Frequency Stability

6.6.1 Test Setup

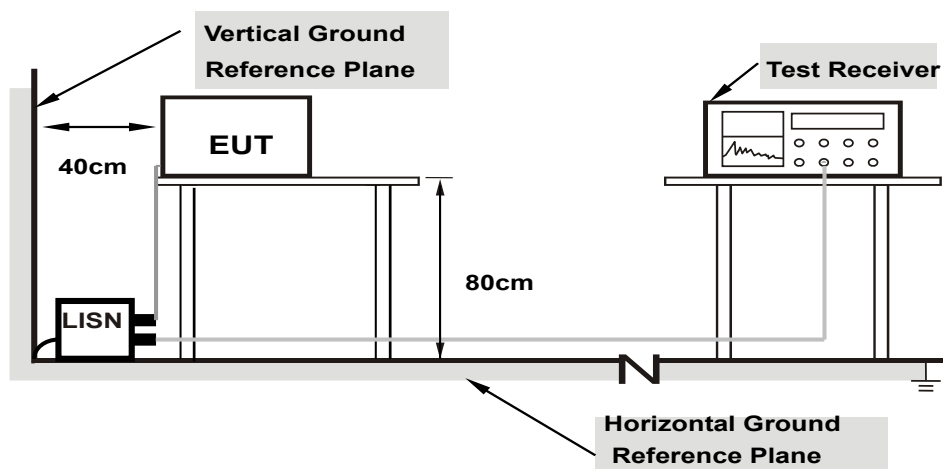


6.6.2 Test Procedure

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

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



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

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

6.7.2 Test Procedure

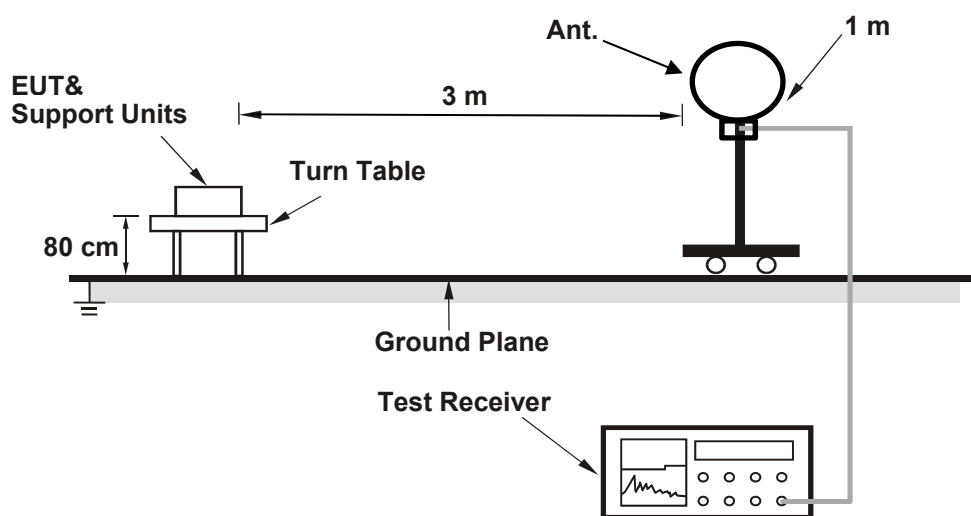
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

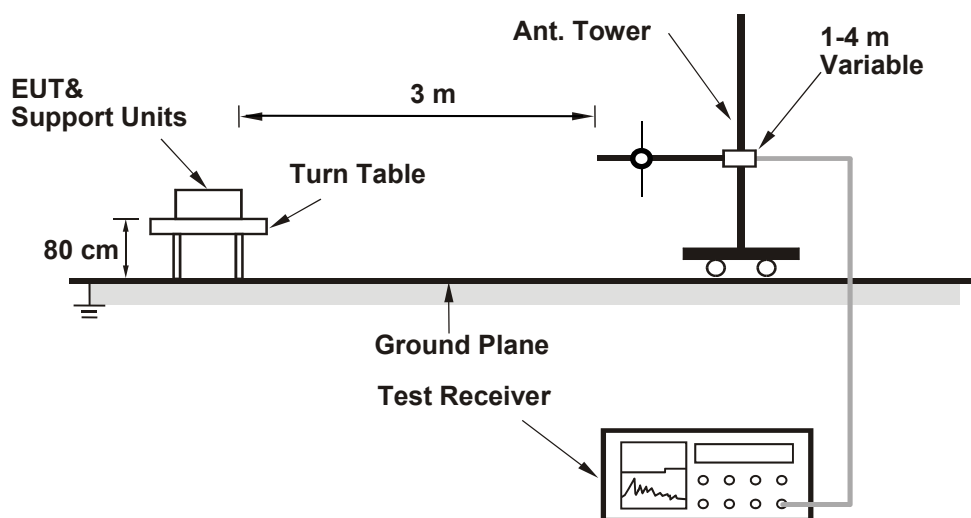
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.8.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

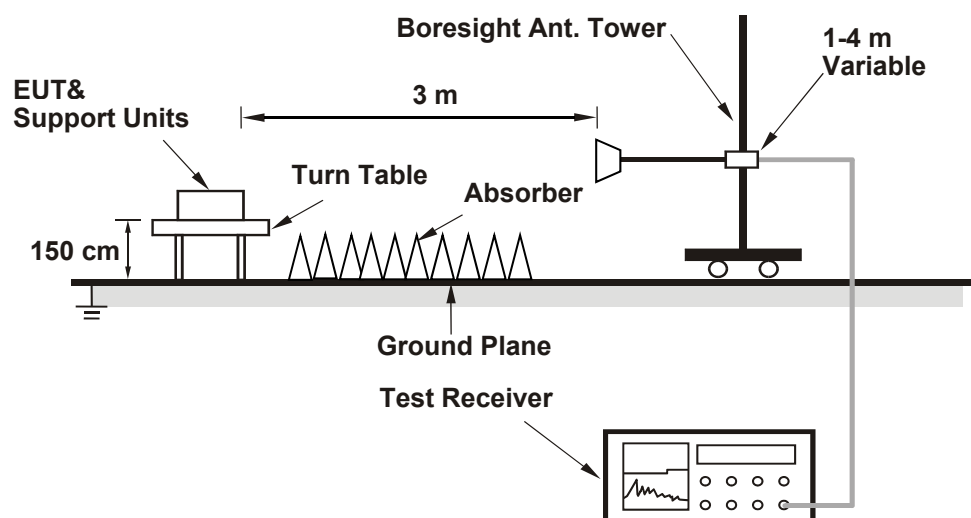
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

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

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



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

6.9.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	21°C, 69% RH	Tested By:	Tim Chen
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	27.50	26.00
60	5300	29.08	24.03
64	5320	27.87	23.08
100	5500	23.24	30.68
116	5580	22.97	31.23
140	5700	19.87	21.23
144 (U-NII-2C)	5720	15.83	16.49
144 (U-NII-3)	5720	7.25	11.30

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	26.00	25.14 > 24
60	5300	24.03	24.8 > 24
64	5320	23.08	24.63 > 24
100	5500	23.24	24.66 > 24
116	5580	22.97	24.61 > 24
140	5700	19.87	23.98 < 24
144 (U-NII-2C)	5720	15.83	22.99 < 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	26.35	23.54
60	5300	28.23	23.72
64	5320	25.78	21.79
100	5500	23.56	30.22
116	5580	24.28	32.39
140	5700	20.93	20.77
144 (U-NII-2C)	5720	15.60	15.77
144 (U-NII-3)	5720	9.39	11.01

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	23.54	24.71 > 24
60	5300	23.72	24.75 > 24
64	5320	21.79	24.38 > 24
100	5500	23.56	24.72 > 24
116	5580	24.28	24.85 > 24
140	5700	20.77	24.17 > 24
144 (U-NII-2C)	5720	15.60	22.93 < 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	52.39	41.40
62	5310	40.62	40.84
102	5510	40.90	41.11
110	5550	41.31	56.57
134	5670	41.13	40.97
142 (U-NII-2C)	5710	35.67	35.71
142 (U-NII-3)	5710	5.29	13.75

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	41.40	27.17 > 24
62	5310	40.62	27.08 > 24
102	5510	40.90	27.11 > 24
110	5550	41.31	27.16 > 24
134	5670	40.97	27.12 > 24
142 (U-NII-2C)	5710	35.67	26.52 > 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	82.20	82.81
106	5530	82.33	82.26
122	5610	83.44	98.76
138 (U-NII-2C)	5690	76.40	76.67
138 (U-NII-3)	5690	6.38	6.77

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	82.20	30.14 > 24
106	5530	82.26	30.15 > 24
122	5610	83.44	30.21 > 24
138 (U-NII-2C)	5690	76.40	29.83 > 24

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

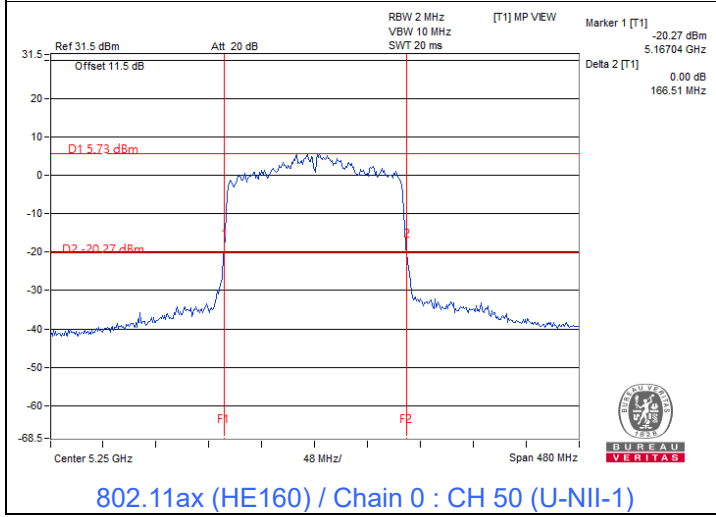
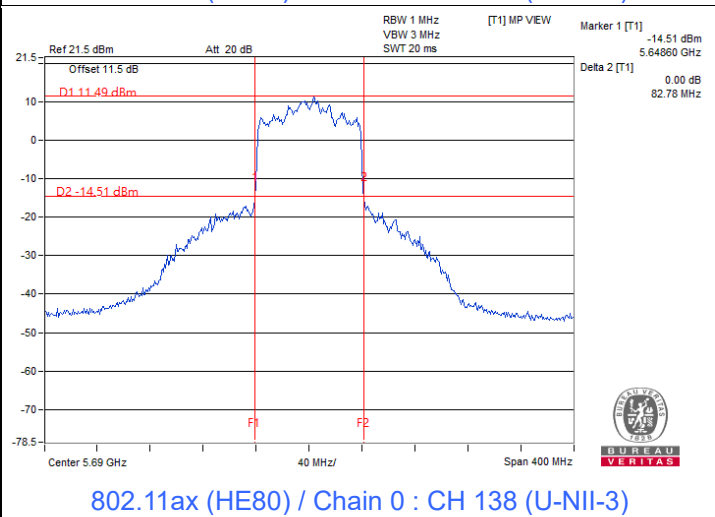
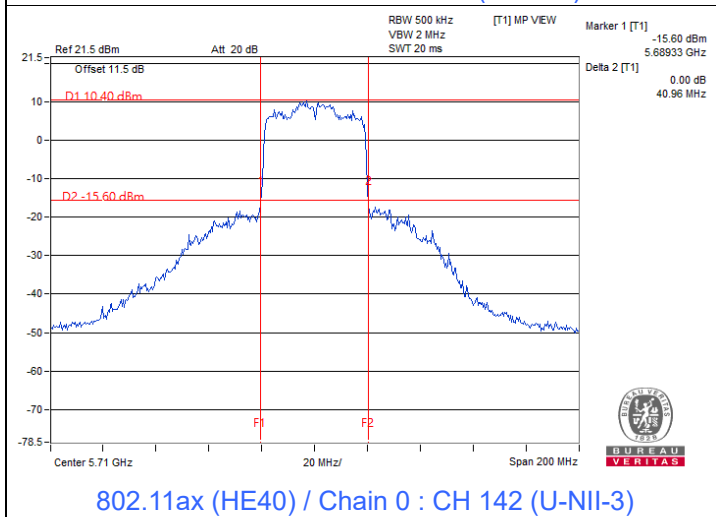
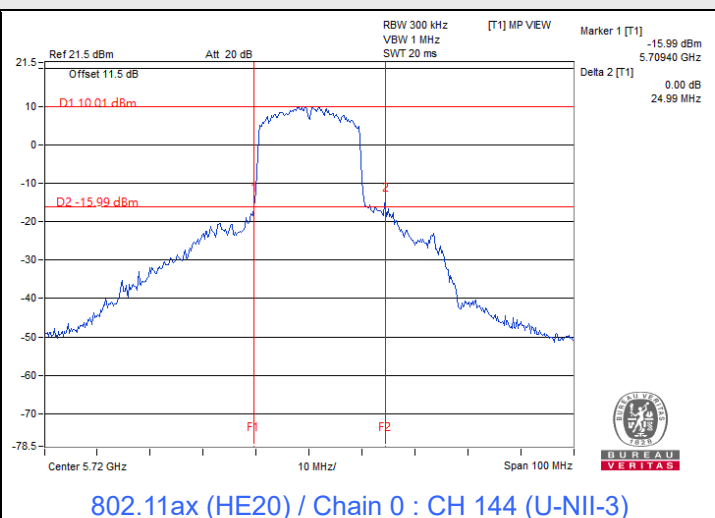
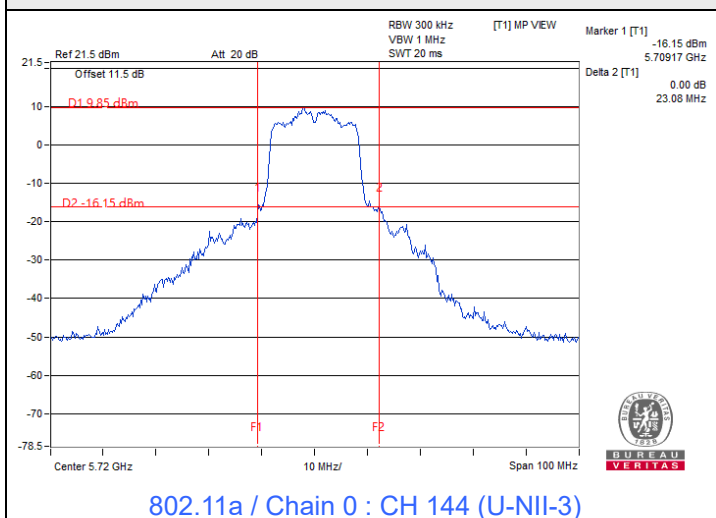
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	82.96	83.19
50 (U-NII-2A)	5250	83.55	83.02
114	5570	167.75	165.82

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	83.02	30.19 > 24
114	5570	165.82	33.19 > 24

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

Spectrum Plot of Minimum Value



Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	21°C, 69% 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	15.60	15.86	74.856	18.74	24	Pass
40	5200	16.62	16.97	95.694	19.81	24	Pass
48	5240	16.64	16.66	92.476	19.66	24	Pass
52	5260	17.83	17.97	123.335	20.91	24	Pass
60	5300	17.88	17.99	124.327	20.95	24	Pass
64	5320	17.63	17.76	117.646	20.71	24	Pass
100	5500	16.73	16.74	94.304	19.75	24	Pass
116	5580	17.69	17.98	121.555	20.85	24	Pass
140	5700	13.96	14.29	51.742	17.14	23.98	Pass
*144 (U-NII-2C)	5720	14.96	15.83	80.948	19.08	22.99	Pass
*144 (U-NII-3)	5720	7.19	7.95	13.341	11.25	30	Pass
149	5745	17.65	17.92	120.154	20.80	30	Pass
157	5785	17.63	17.91	119.745	20.78	30	Pass
165	5825	17.67	17.97	121.14	20.83	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.1 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.7 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	15.42	15.69	71.902	18.57	24	Pass
40	5200	16.42	16.65	90.091	19.55	24	Pass
48	5240	16.44	16.64	90.187	19.55	24	Pass
52	5260	17.43	17.65	113.545	20.55	24	Pass
60	5300	17.40	17.61	112.631	20.52	24	Pass
64	5320	15.29	15.51	69.37	18.41	24	Pass
100	5500	16.12	16.45	85.083	19.30	24	Pass
116	5580	17.37	17.63	112.519	20.51	24	Pass
140	5700	11.39	11.57	28.127	14.49	24	Pass
*144 (U-NII-2C)	5720	14.89	15.95	70.187	18.46	22.93	Pass
*144 (U-NII-3)	5720	7.63	8.78	13.345	11.25	30	Pass
149	5745	17.43	17.62	113.145	20.54	30	Pass
157	5785	17.42	17.64	113.284	20.54	30	Pass
165	5825	17.41	17.65	113.291	20.54	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 0.1 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 0.7 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	10.47	11.01	23.761	13.76	24	Pass
46	5230	16.61	17.07	96.747	19.86	24	Pass
54	5270	16.59	17.02	95.954	19.82	24	Pass
62	5310	10.32	10.82	22.843	13.59	24	Pass
102	5510	11.02	11.38	26.388	14.21	24	Pass
110	5550	16.59	17.01	95.838	19.82	24	Pass
134	5670	14.45	14.93	58.978	17.71	24	Pass
*142 (U-NII-2C)	5710	15.72	15.73	74.736	18.74	24	Pass
*142 (U-NII-3)	5710	3.73	3.74	4.726	6.74	30	Pass
151	5755	16.62	17.04	96.502	19.85	30	Pass
159	5795	16.60	17.05	96.408	19.84	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 0.1 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 0.7 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	15.83	15.96	77.728	18.91	24	Pass
40	5200	16.85	16.92	97.621	19.90	24	Pass
48	5240	16.88	16.95	98.298	19.93	24	Pass
52	5260	17.86	17.94	123.324	20.91	24	Pass
60	5300	17.83	17.92	122.618	20.89	24	Pass
64	5320	15.67	15.79	74.829	18.74	24	Pass
100	5500	16.69	16.84	94.972	19.78	24	Pass
116	5580	17.81	17.94	122.625	20.89	24	Pass
140	5700	11.78	11.85	30.377	14.83	24	Pass
*144 (U-NII-2C)	5720	15.02	15.96	83.677	19.23	22.93	Pass
*144 (U-NII-3)	5720	8.26	9.30	17.872	12.52	30	Pass
149	5745	17.83	17.92	122.618	20.89	30	Pass
157	5785	17.86	17.95	123.468	20.92	30	Pass
165	5825	17.85	17.94	123.184	20.91	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 0.1 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 0.7 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	11.04	11.41	26.541	14.24	24	Pass
46	5230	17.07	17.48	106.909	20.29	24	Pass
54	5270	17.05	17.45	106.289	20.26	24	Pass
62	5310	10.82	11.28	25.506	14.07	24	Pass
102	5510	11.46	11.83	29.236	14.66	24	Pass
110	5550	17.04	17.43	105.917	20.25	24	Pass
134	5670	14.96	15.33	65.452	18.16	24	Pass
*142 (U-NII-2C)	5710	14.81	15.45	77.495	18.89	24	Pass
*142 (U-NII-3)	5710	3.50	4.23	5.796	7.63	30	Pass
151	5755	17.08	17.47	106.898	20.29	30	Pass
159	5795	17.05	17.46	106.418	20.27	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.1 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.7 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	9.14	9.88	17.931	12.54	24	Pass
58	5290	9.99	10.47	21.12	13.25	24	Pass
106	5530	12.02	12.54	33.869	15.30	24	Pass
122	5610	16.26	16.98	92.155	19.65	24	Pass
*138 (U-NII-2C)	5690	14.47	14.97	70.37	18.47	24	Pass
*138 (U-NII-3)	5690	-1.09	-0.52	1.9729	2.95	30	Pass
155	5775	16.21	16.92	90.987	19.59	30	Pass

Notes:

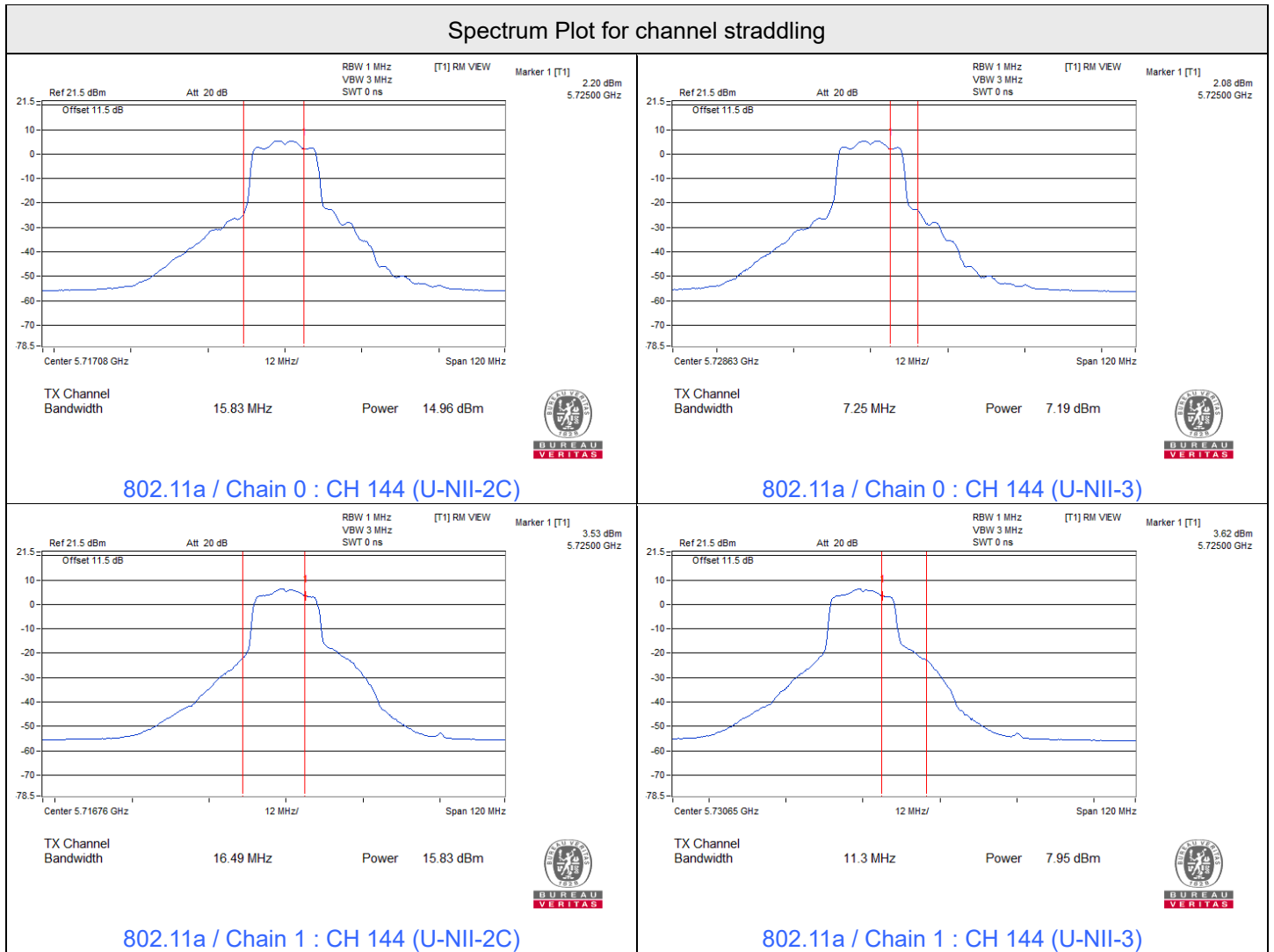
- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.1 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.7 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	6.29	7.30	11.447	10.59	24	Pass
*50 (U-NII-2A)	5250	6.77	7.32	12.068	10.82	24	Pass
114	5570	10.97	11.38	26.243	14.19	24	Pass

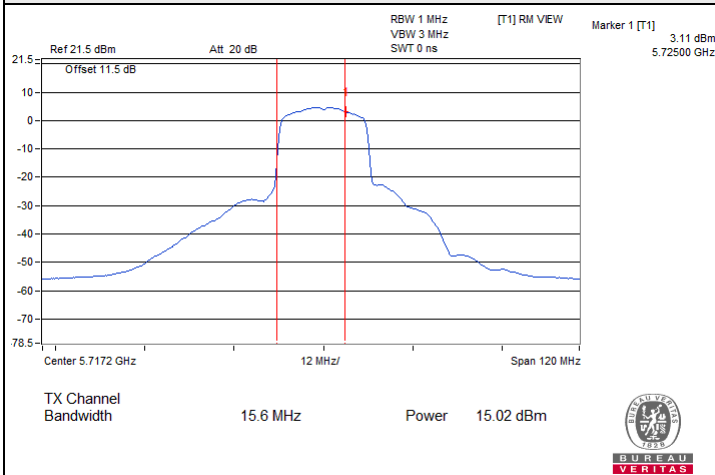
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.4 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.1 dBi < 6 dBi, so the output power limit shall not be reduced.

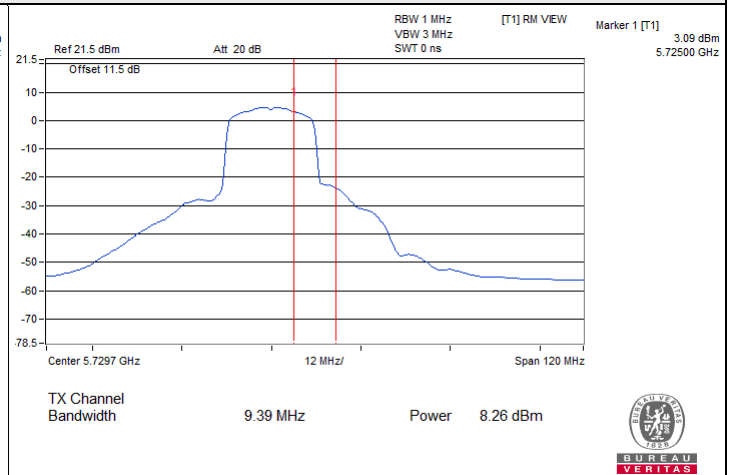




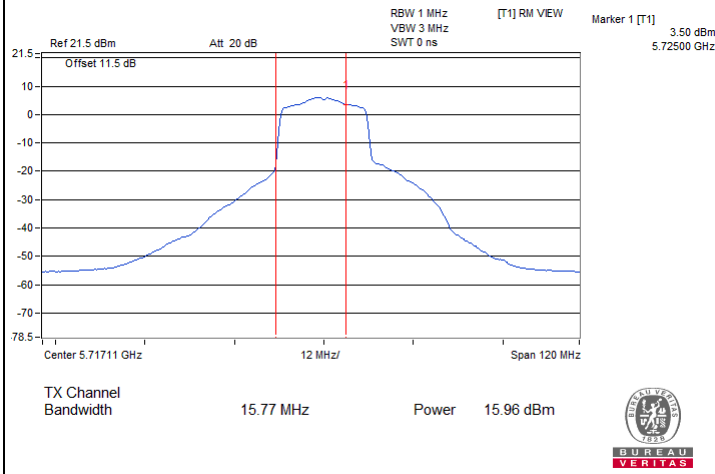
Spectrum Plot for channel straddling



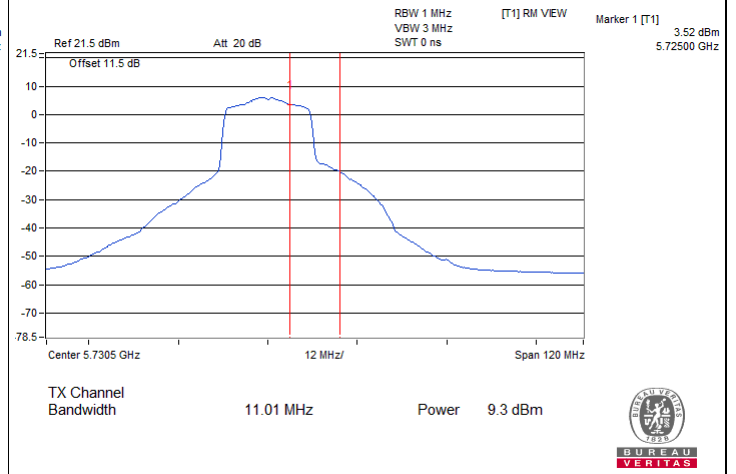
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)



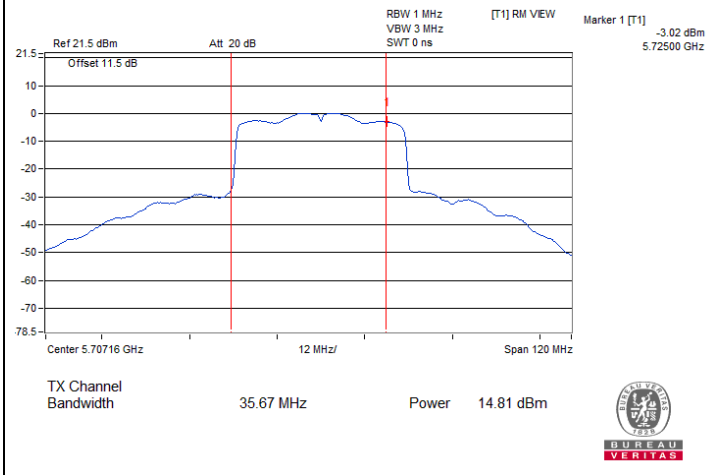
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)



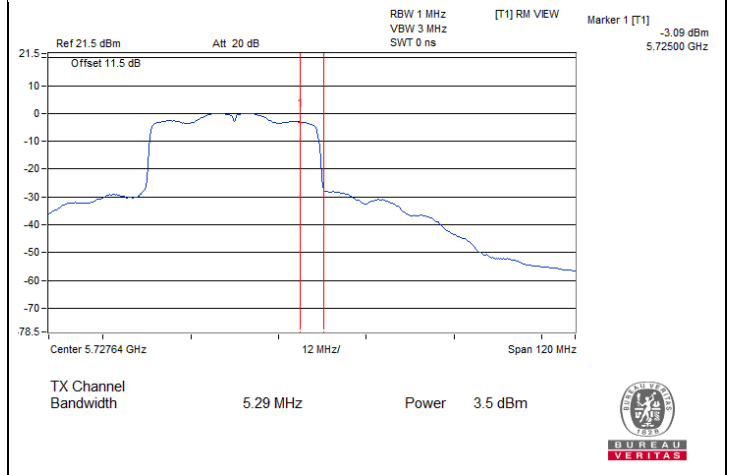
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)



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

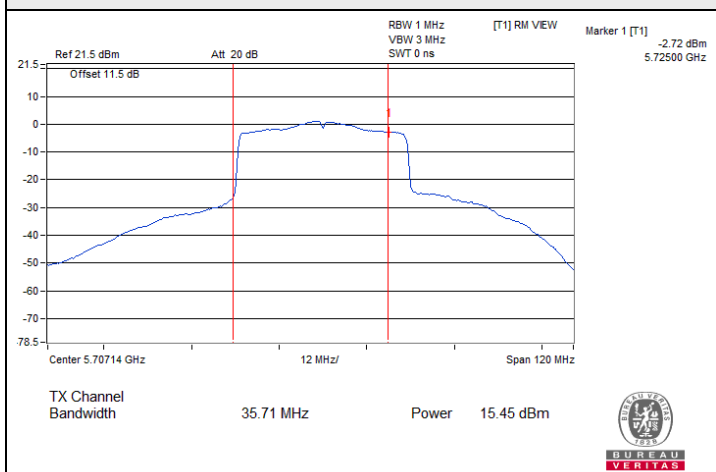


802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)

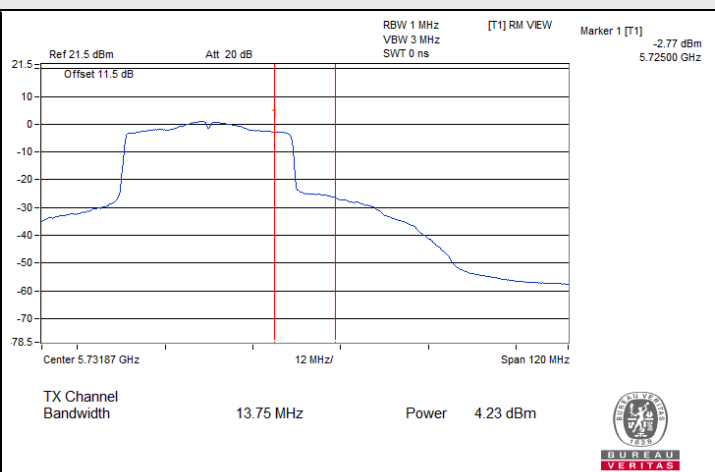


802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)

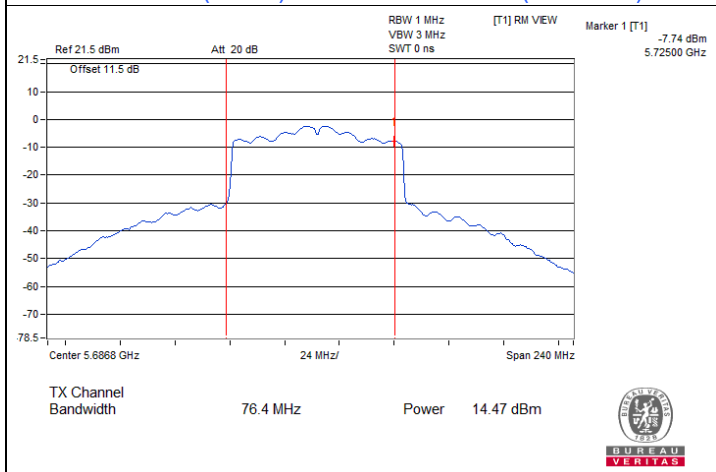
Spectrum Plot for channel straddling



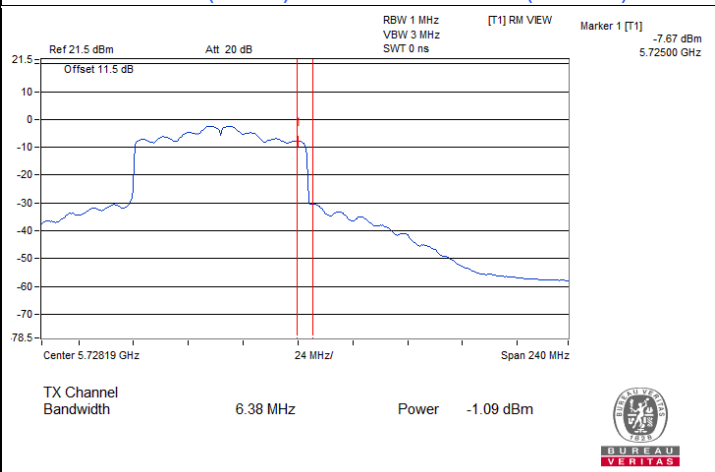
802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)



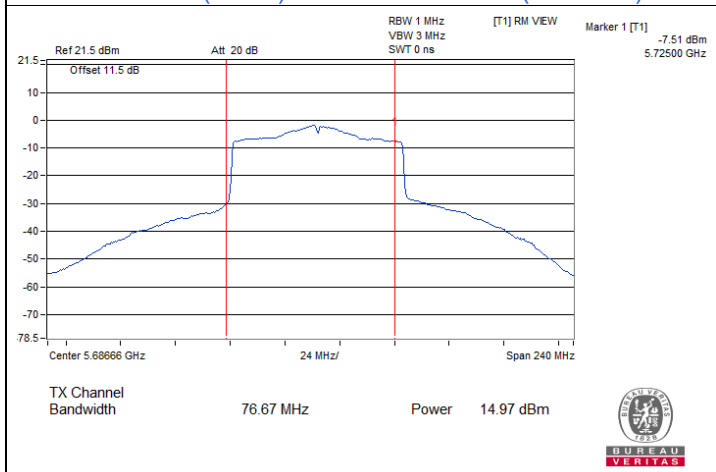
802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)



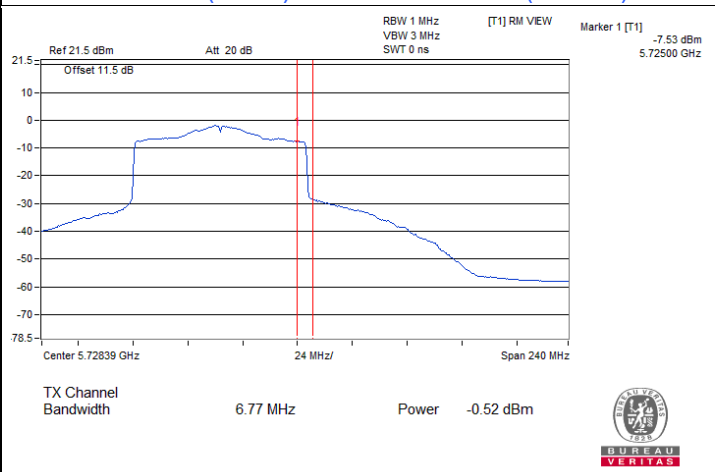
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



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



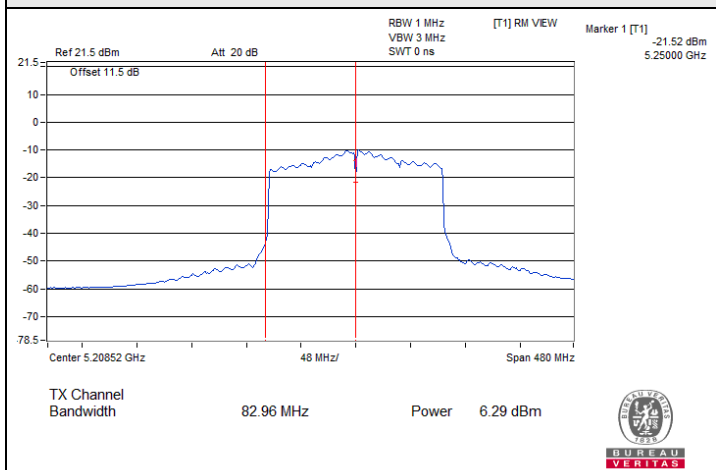
802.11ax (HE80) / Chain 1 : CH 138 (U-NII-2C)



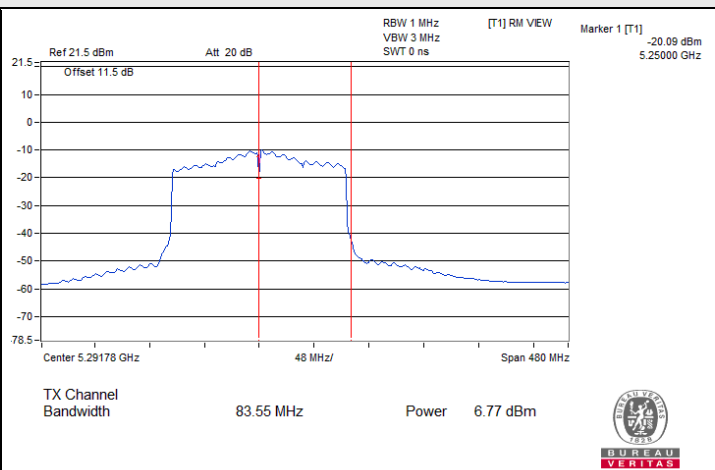
802.11ax (HE80) / Chain 1 : CH 138 (U-NII-3)



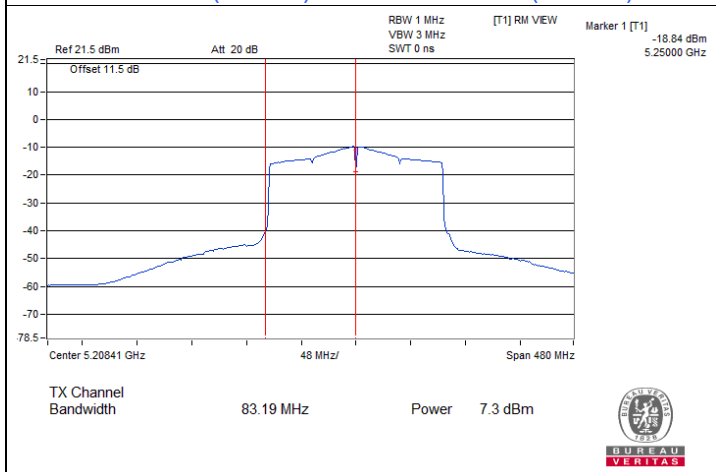
Spectrum Plot for channel straddling



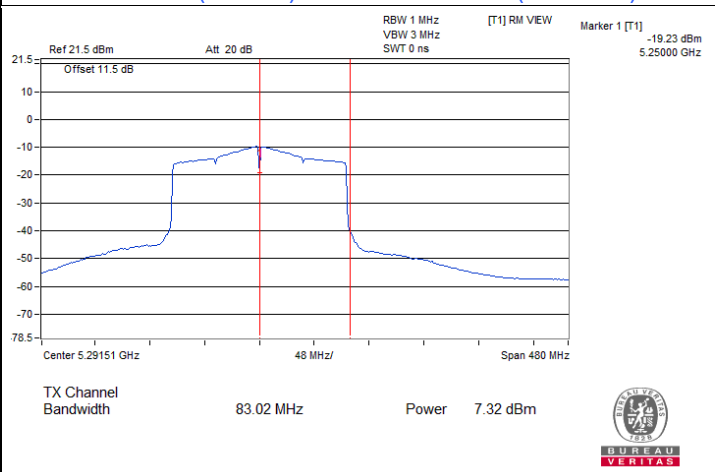
802.11ax (HE160) / Chain 0 : CH 50 (U-NII-1)



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



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



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

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	21°C, 69% RH	Tested By:	Tim Chen
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802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
36	5180	2.84	3.20	0.66	6.69	11	Pass
40	5200	3.00	3.84	0.66	7.11	11	Pass
48	5240	2.72	3.45	0.66	6.77	11	Pass
52	5260	3.89	4.05	0.66	7.64	11	Pass
60	5300	3.46	4.15	0.66	7.49	11	Pass
64	5320	2.77	3.81	0.66	6.99	11	Pass
100	5500	3.60	4.19	0.66	7.58	11	Pass
116	5580	3.93	4.30	0.66	7.79	11	Pass
140	5700	0.72	0.92	0.66	4.49	11	Pass
144 (U-NII-2C)	5720	1.68	3.35	0.66	6.27	11	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 3.02 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.02 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 3.01 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
36	5180	2.14	2.73	0.70	6.16	11	Pass
40	5200	2.87	3.49	0.70	6.90	11	Pass
48	5240	2.42	3.58	0.70	6.75	11	Pass
52	5260	4.05	4.27	0.70	7.87	11	Pass
60	5300	3.21	4.88	0.70	7.84	11	Pass
64	5320	2.49	3.57	0.70	6.77	11	Pass
100	5500	3.40	3.53	0.70	7.18	11	Pass
116	5580	2.74	4.08	0.70	7.17	11	Pass
140	5700	-1.07	-0.50	0.70	2.93	11	Pass
144 (U-NII-2C)	5720	3.30	3.53	0.70	7.13	11	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 3.02 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.02 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 3.01 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
38	5190	-4.32	-4.20	0.74	-0.51	11	Pass
46	5230	1.65	1.64	0.74	5.40	11	Pass
54	5270	1.10	1.33	0.74	4.97	11	Pass
62	5310	-3.37	-3.17	0.74	0.48	11	Pass
102	5510	-2.23	-2.13	0.74	1.57	11	Pass
110	5550	0.35	1.03	0.74	4.45	11	Pass
134	5670	0.25	0.33	0.74	4.04	11	Pass
142 (U-NII-2C)	5710	0.31	0.70	0.74	4.26	11	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 3.02 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.02 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 3.01 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
42	5210	-7.59	-7.38	0.74	-3.73	11	Pass
58	5290	-6.92	-6.11	0.74	-2.75	11	Pass
106	5530	-6.27	-5.46	0.74	-2.10	11	Pass
122	5610	-1.99	-1.67	0.74	1.92	11	Pass
138 (U-NII-2C)	5690	-2.35	-1.43	0.74	1.88	11	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 3.02 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.02 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 3.01 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
50 (U-NII-1)	5250	-10.49	-9.91	0.75	-6.43	11	Pass
50 (U-NII-2A)	5250	-10.04	-9.71	0.75	-6.11	11	Pass
114	5570	-9.80	-8.74	0.75	-5.48	11	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 3.02 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.02 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 3.01 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
144 (U-NII-3)	5720	-8.78	-7.96	-5.34	0.66	-2.46	30	Pass
149	5745	-6.14	-4.68	-2.34	0.66	0.54	30	Pass
157	5785	-4.96	-4.22	-1.56	0.66	1.32	30	Pass
165	5825	-6.65	-6.19	-3.4	0.66	-0.52	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 2.99 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
144 (U-NII-3)	5720	-8.83	-8.05	-5.41	0.7	-2.49	30	Pass
149	5745	-6.80	-5.25	-2.95	0.7	-0.03	30	Pass
157	5785	-5.70	-5.15	-2.41	0.7	0.51	30	Pass
165	5825	-6.24	-5.86	-3.04	0.7	-0.12	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 2.99 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
142 (U-NII-3)	5710	-12.64	-11.66	-9.11	0.74	-6.15	30	Pass
151	5755	-8.73	-7.67	-5.16	0.74	-2.20	30	Pass
159	5795	-8.41	-7.85	-5.11	0.74	-2.15	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 2.99 dBi < 6 dBi, so the power density limit shall not be reduced.

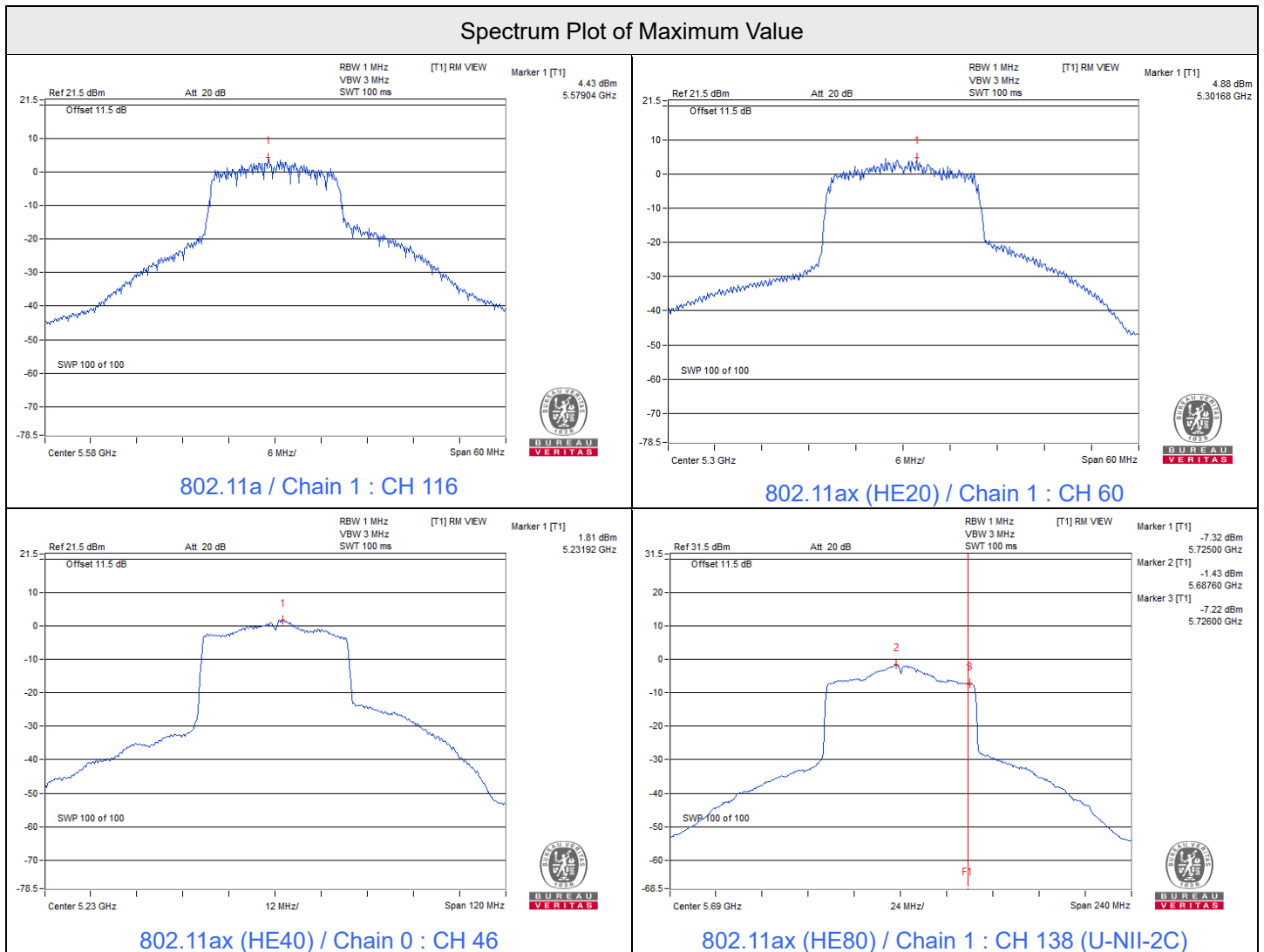


802.11ax (HE80)

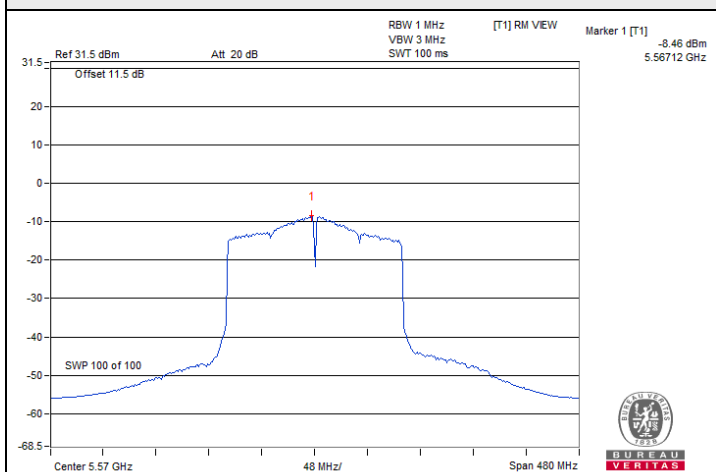
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
138 (U-NII-3)	5690	-16.97	-16.68	-13.81	0.74	-10.85	30	Pass
155	5775	-11.09	-10.45	-7.75	0.74	-4.79	30	Pass

Notes:

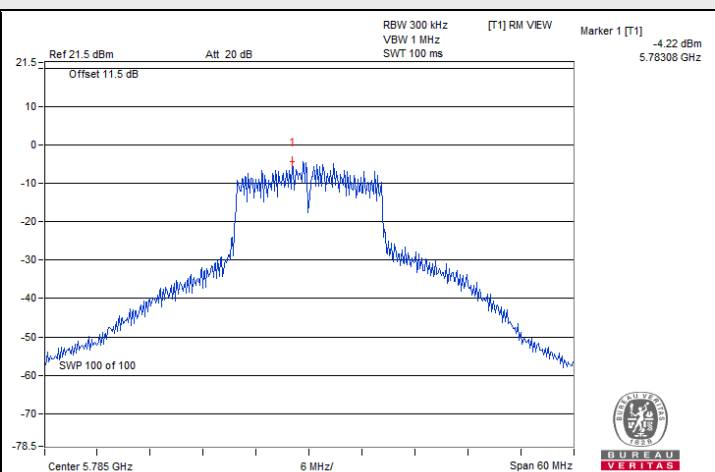
- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 2.99 dBi < 6 dBi, so the power density limit shall not be reduced.



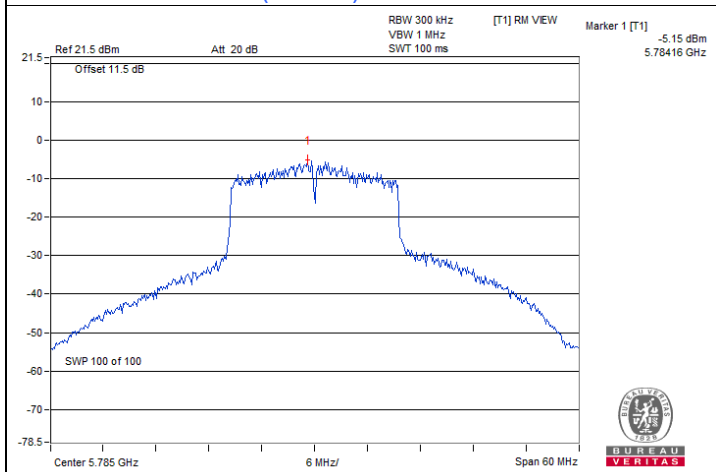
Spectrum Plot of Maximum Value



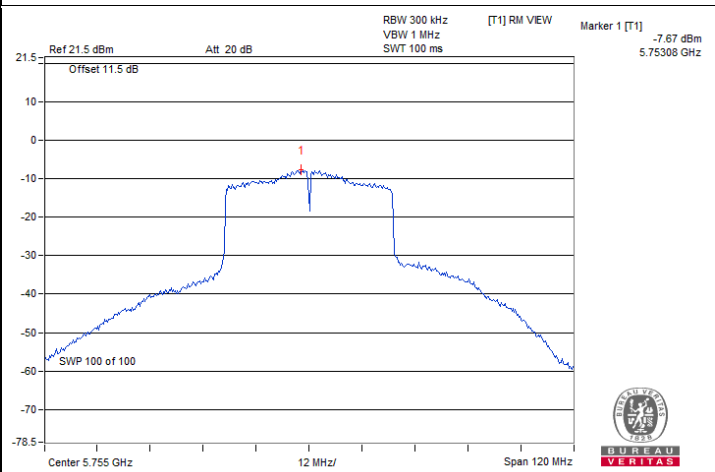
802.11ax (HE160) / Chain 1 : CH 114



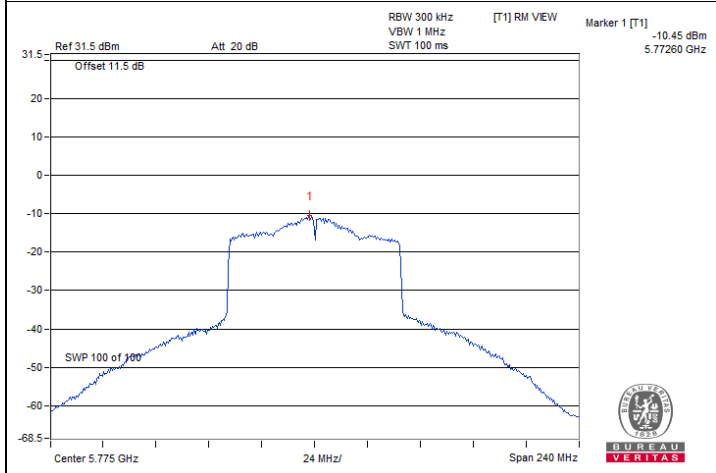
802.11a / Chain 1 : CH 157



802.11ax (HE20) / Chain 1 : CH 157



802.11ax (HE40) / Chain 1 : CH 151



802.11ax (HE80) / Chain 1 : CH 155

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	21°C, 69% 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	2.57	2.57	0.5	Pass
149	5745	15.20	15.21	0.5	Pass
157	5785	15.19	15.21	0.5	Pass
165	5825	15.20	15.19	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	3.30	2.56	0.5	Pass
149	5745	16.25	16.35	0.5	Pass
157	5785	15.21	16.38	0.5	Pass
165	5825	15.21	16.33	0.5	Pass

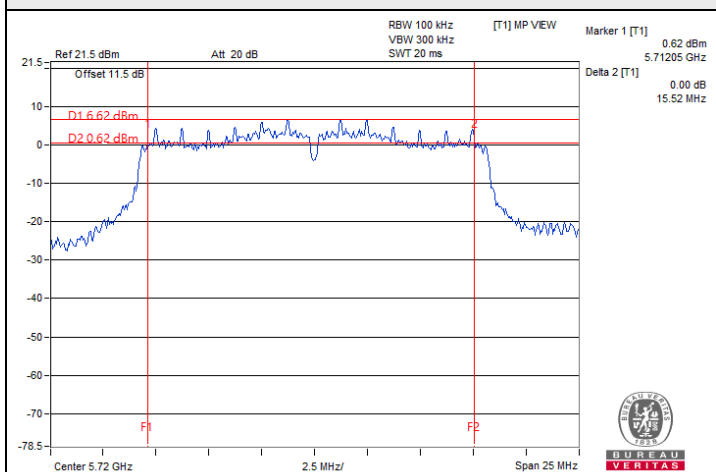
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	2.55	2.58	0.5	Pass
151	5755	35.21	35.23	0.5	Pass
159	5795	35.60	35.21	0.5	Pass

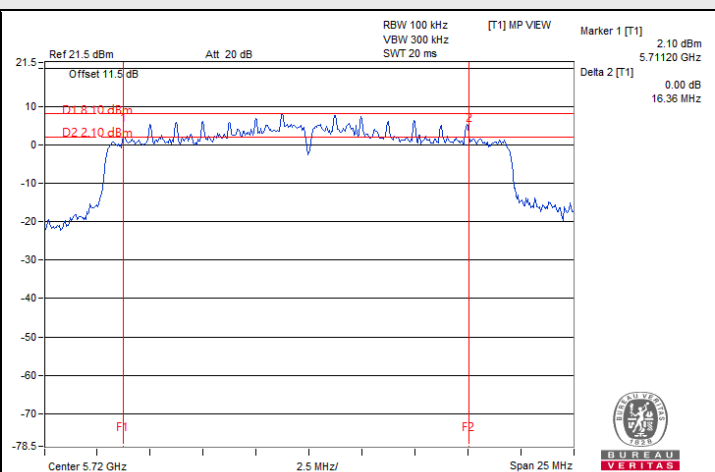
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	2.65	1.44	0.5	Pass
155	5775	62.70	61.49	0.5	Pass

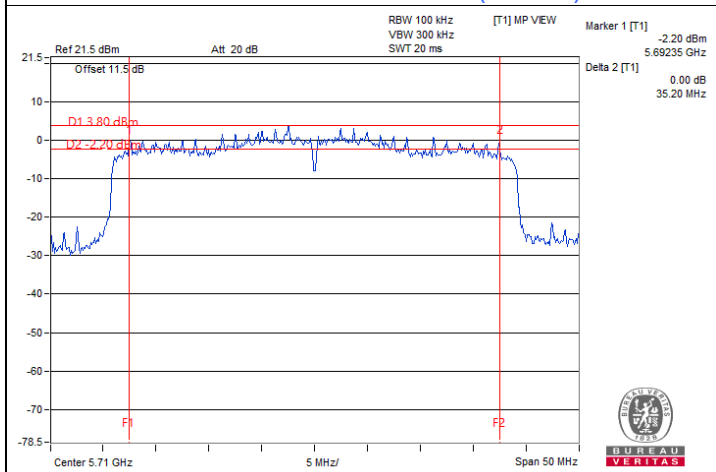
Spectrum Plot of Minimum Value



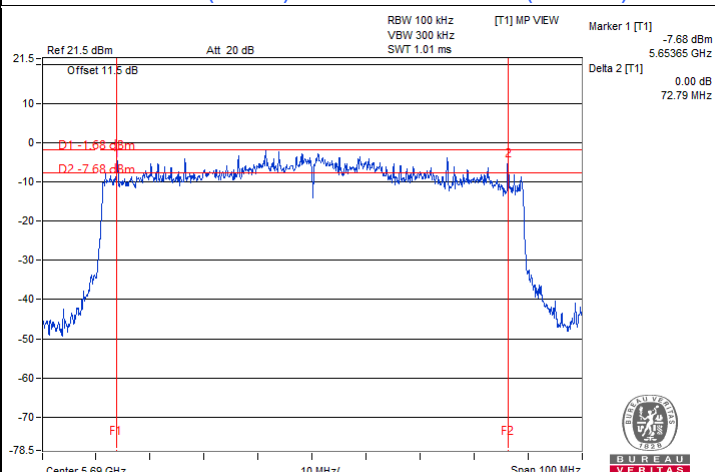
802.11a / Chain 0 : CH 144 (U-NII-3)



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



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



802.11ax (HE80) / Chain 1 : CH 138

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

7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	21°C, 69% 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	16.44
40	5200	17.28	16.44
48	5240	17.76	16.56
52	5260	18.84	16.80
60	5300	19.80	16.68
64	5320	18.12	16.56
100	5500	16.68	19.20
116	5580	16.68	19.92
140	5700	16.44	16.44
144 (U-NII-2C)	5720	13.40	13.28
144 (U-NII-3)	5720	3.16	3.52
149	5745	16.68	18.72
157	5785	16.56	17.64
165	5825	16.44	16.80

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.96	18.84
40	5200	19.32	18.84
48	5240	19.44	19.08
52	5260	19.20	19.08
60	5300	20.40	18.96
64	5320	19.20	18.84
100	5500	18.96	20.04
116	5580	18.96	20.40
140	5700	18.84	18.84
144 (U-NII-2C)	5720	14.48	14.60
144 (U-NII-3)	5720	4.36	4.60
149	5745	18.96	19.20
157	5785	18.96	19.32
165	5825	18.96	19.08

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.68	37.92
46	5230	38.40	38.16
54	5270	38.16	37.92
62	5310	37.68	37.68
102	5510	37.68	37.68
110	5550	37.92	38.64
134	5670	37.92	37.92
142 (U-NII-2C)	5710	34.20	34.20
142 (U-NII-3)	5710	3.72	3.96
151	5755	38.16	38.40
159	5795	37.92	38.16

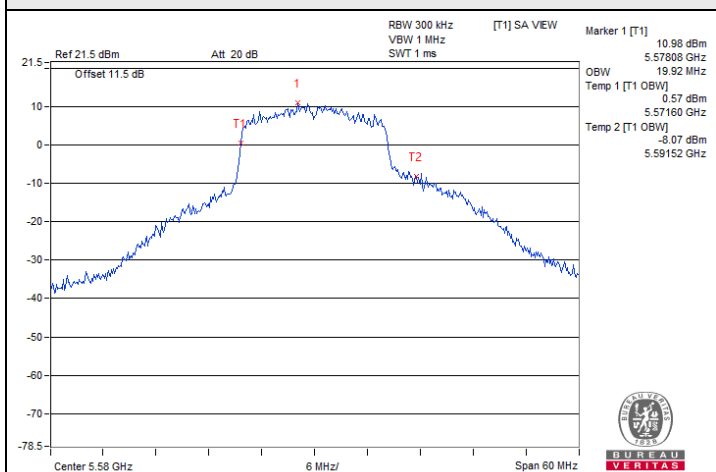
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	76.80	77.28
58	5290	76.80	77.28
106	5530	76.80	76.80
122	5610	76.80	77.28
138 (U-NII-2C)	5690	73.64	73.88
138 (U-NII-3)	5690	3.16	3.40
155	5775	76.80	77.28

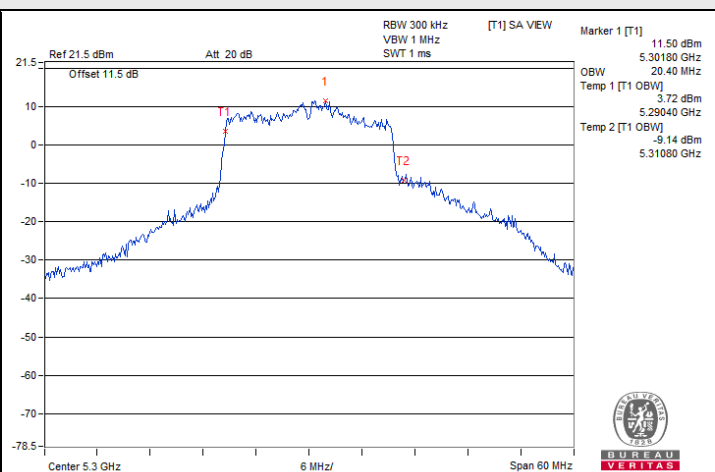
802.11ax (HE160)

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

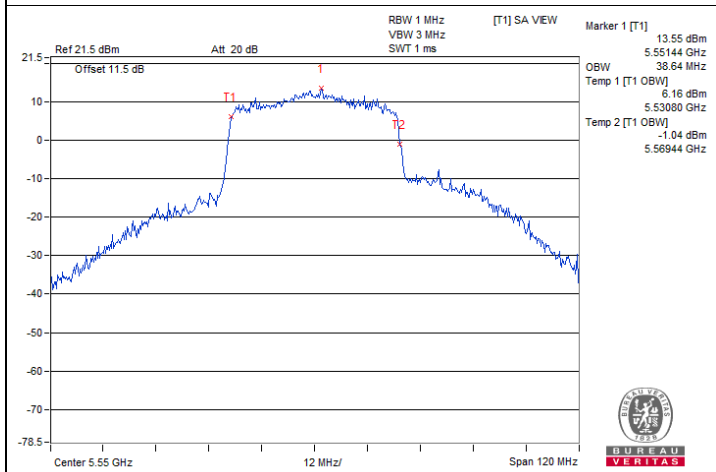
Spectrum Plot of Maximum Value



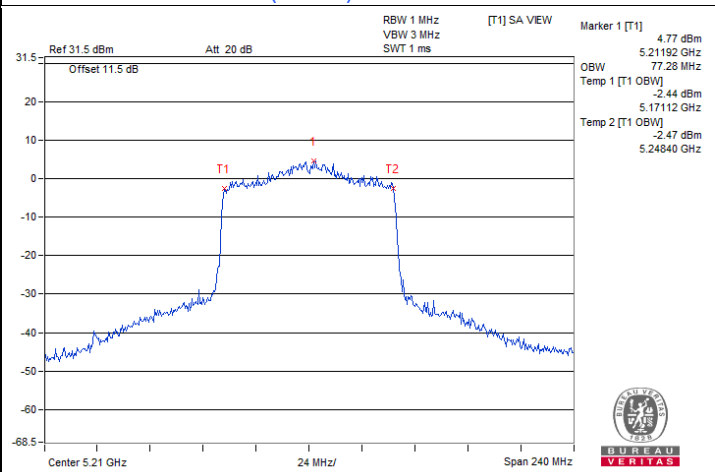
802.11a / Chain 1 : CH 116



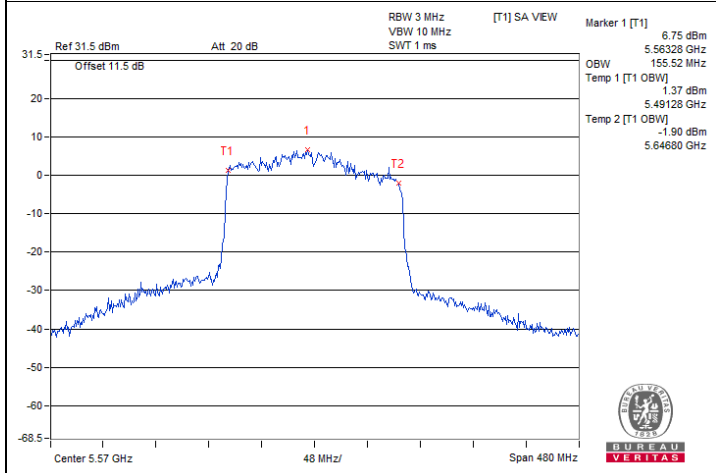
802.11ax (HE20) / Chain 0 : CH 60



802.11ax (HE40) / Chain 1 : CH 110



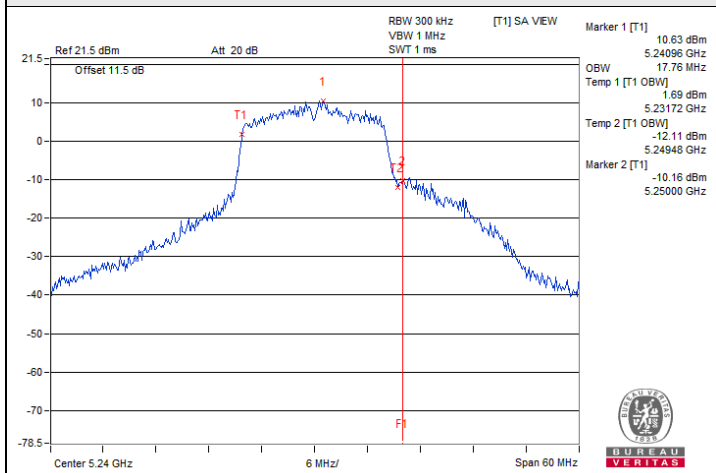
802.11ax (HE80) / Chain 1 : CH 42



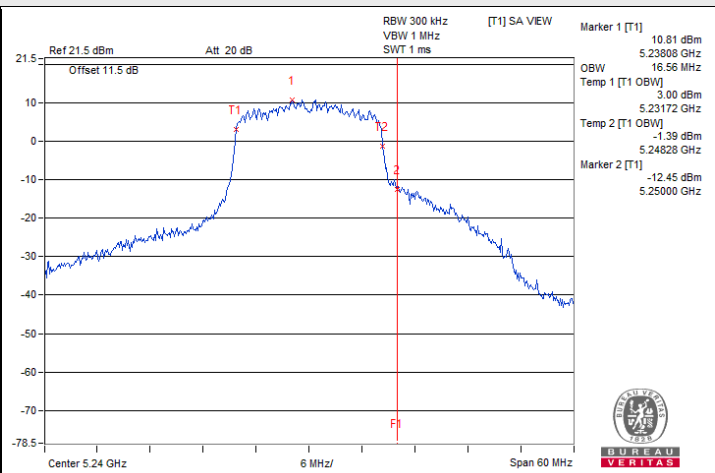
802.11ax (HE160) / Chain 0 : CH 114



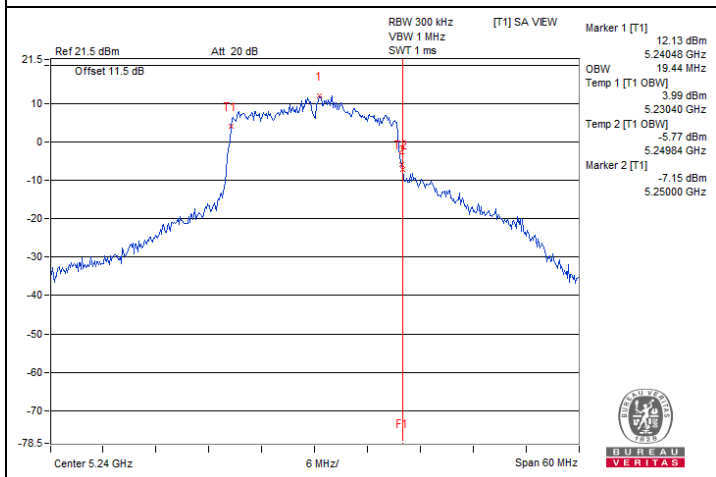
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



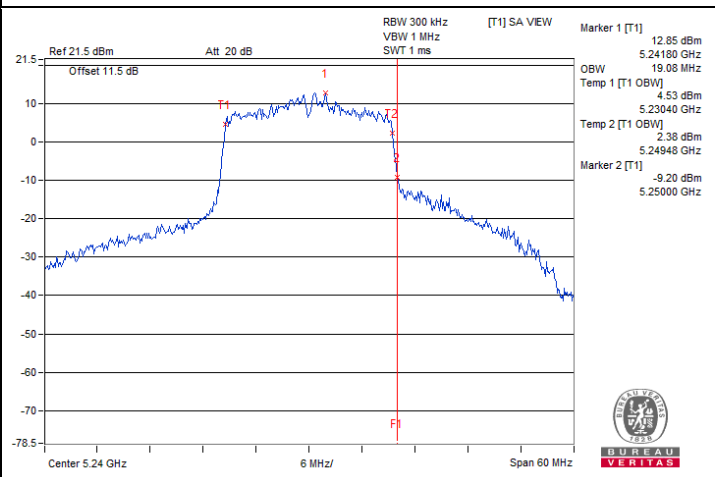
802.11a / Chain 0 : CH 48



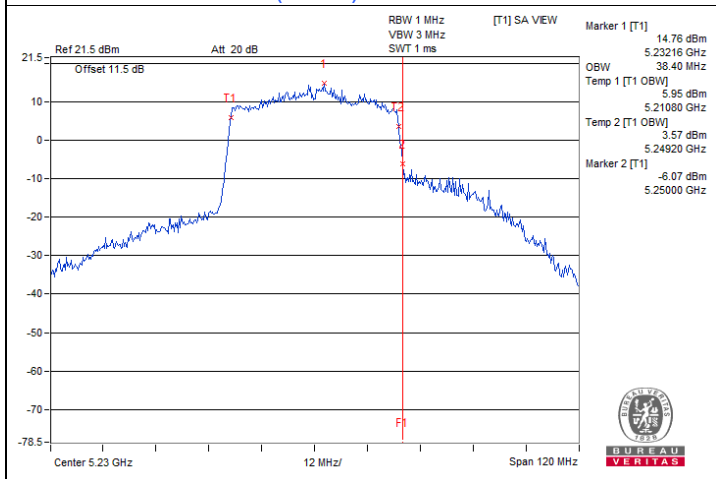
802.11a / Chain 1 : CH 48



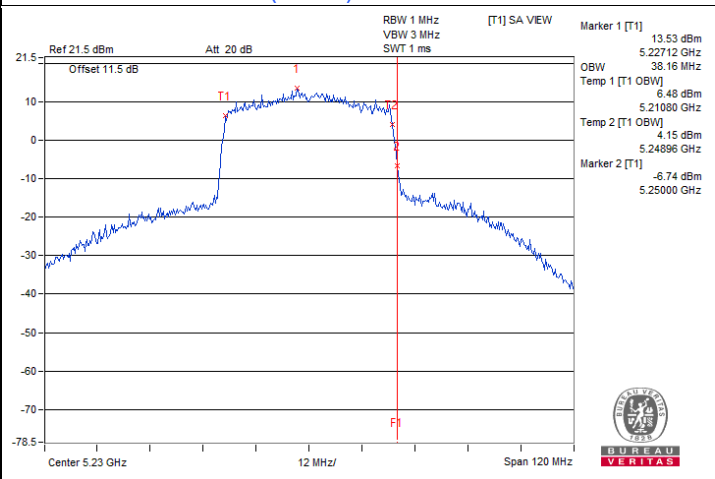
802.11ax (HE20) / Chain 0 : CH 48



802.11ax (HE20) / Chain 1 : CH 48

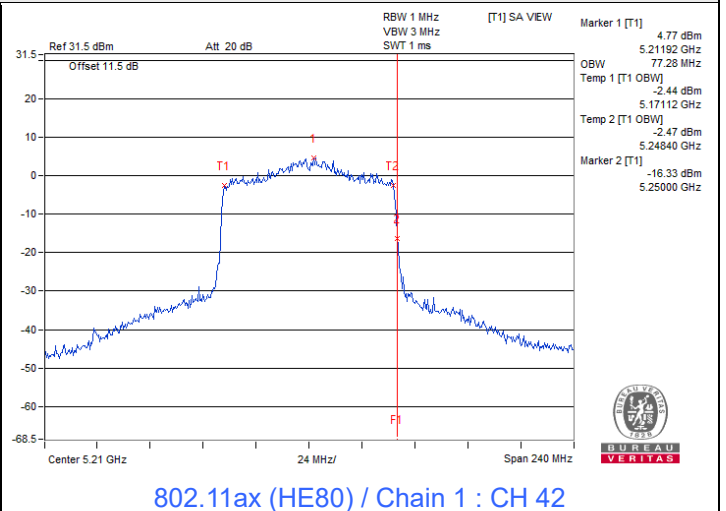
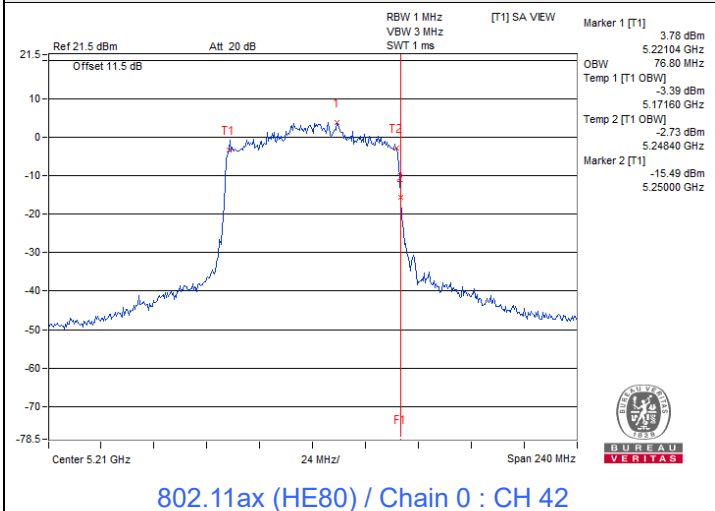


802.11ax (HE40) / Chain 0 : CH 46

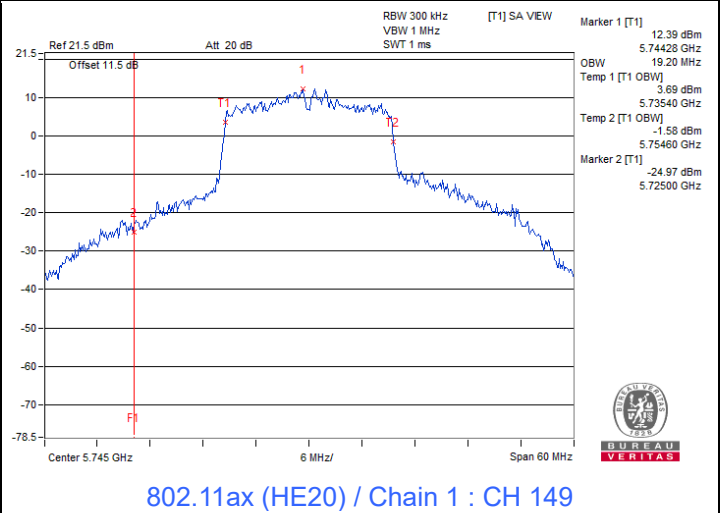
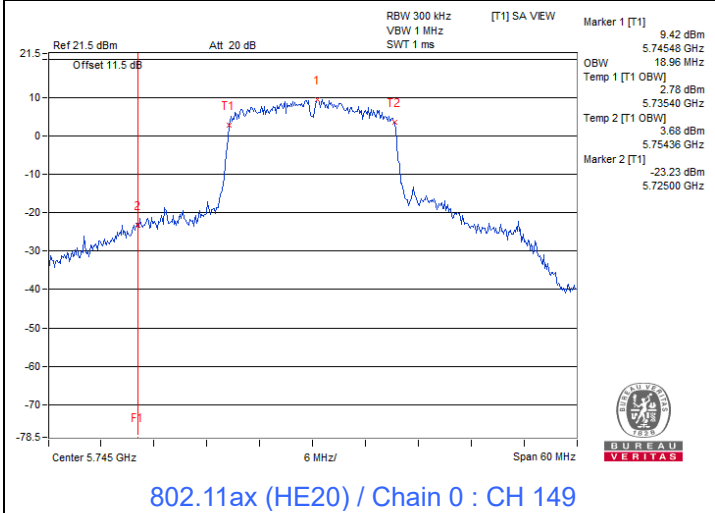
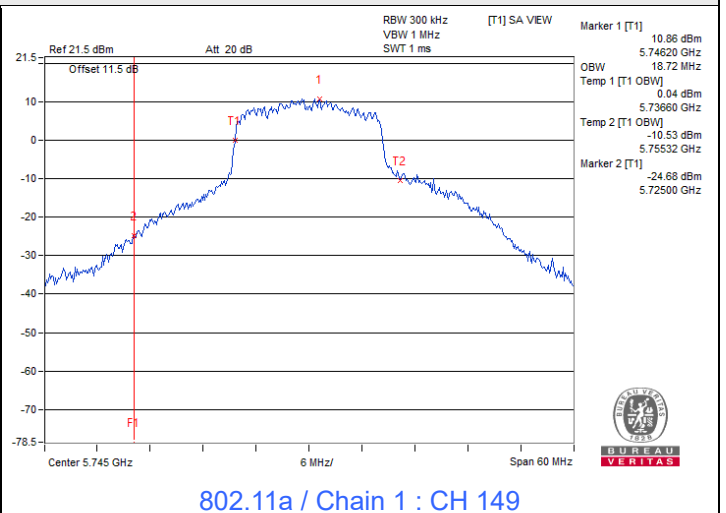
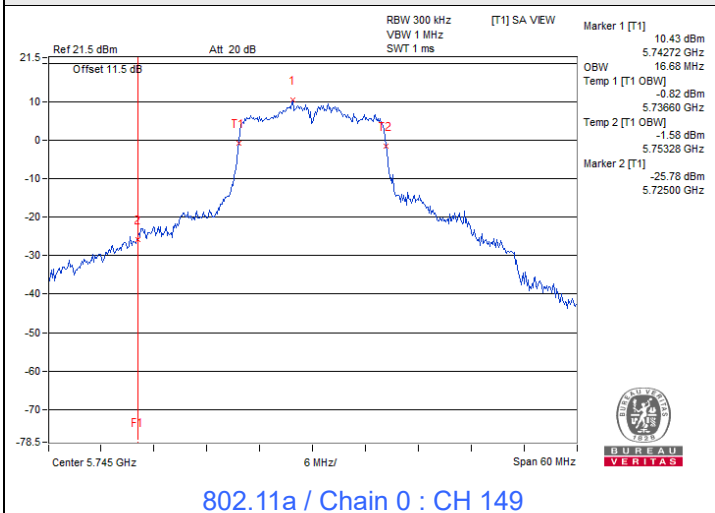


802.11ax (HE40) / Chain 1 : CH 46

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

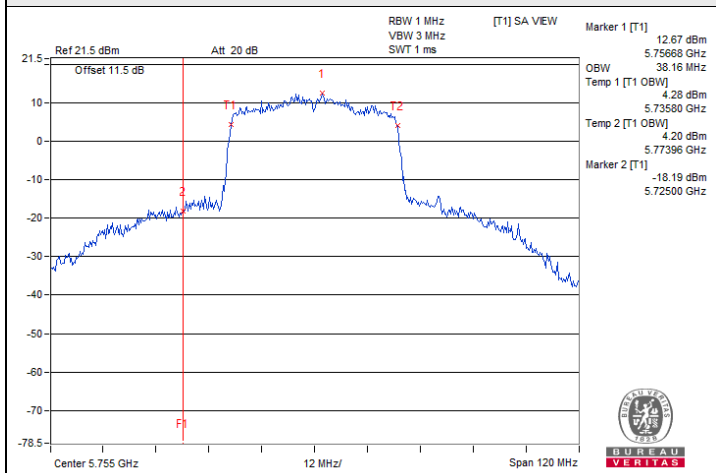


Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)

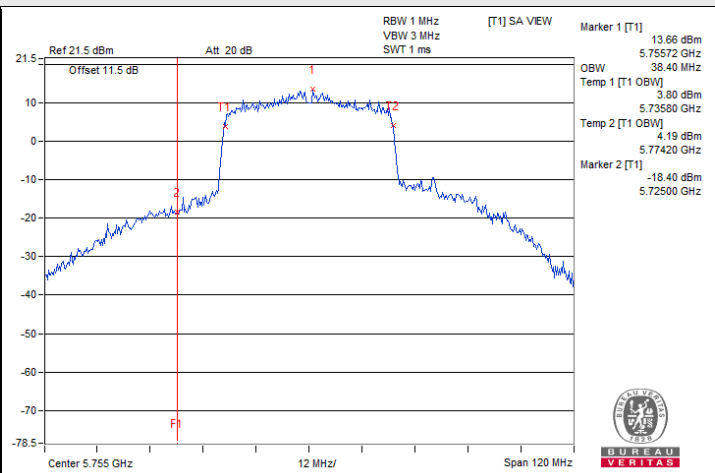




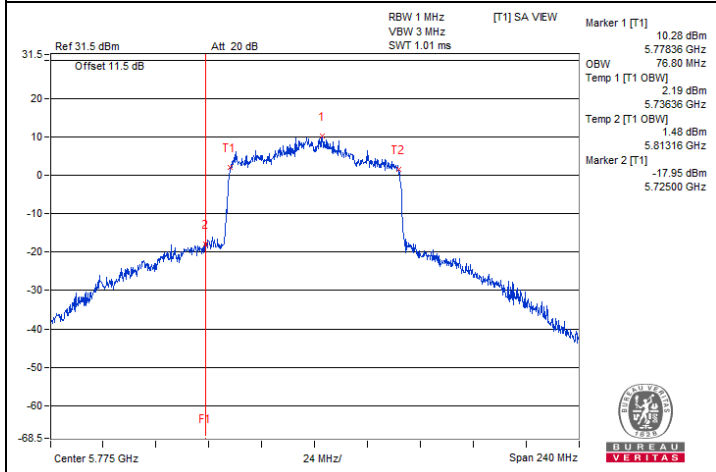
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



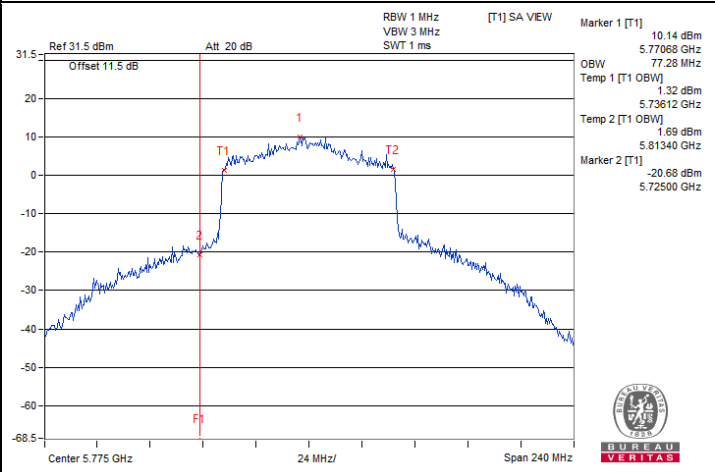
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151



802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155

7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	21°C, 69% RH	Tested By:	Tim Chen
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Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
45	120	5179.9775	Pass	5179.9795	Pass	5179.9762	Pass	5179.9756	Pass
40	120	5180.0194	Pass	5180.0203	Pass	5180.0204	Pass	5180.0202	Pass
30	120	5180.0118	Pass	5180.0111	Pass	5180.0118	Pass	5180.0097	Pass
20	120	5179.9876	Pass	5179.9892	Pass	5179.9896	Pass	5179.9898	Pass
10	120	5179.9997	Pass	5180.0026	Pass	5180.0019	Pass	5180.0003	Pass
0	120	5180.0164	Pass	5180.0133	Pass	5180.0161	Pass	5180.0166	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5179.979	Pass	5179.9811	Pass	5179.9824	Pass	5179.9812	Pass
	120	5179.9876	Pass	5179.9892	Pass	5179.9896	Pass	5179.9898	Pass
	102	5179.9846	Pass	5179.9869	Pass	5179.9867	Pass	5179.9895	Pass

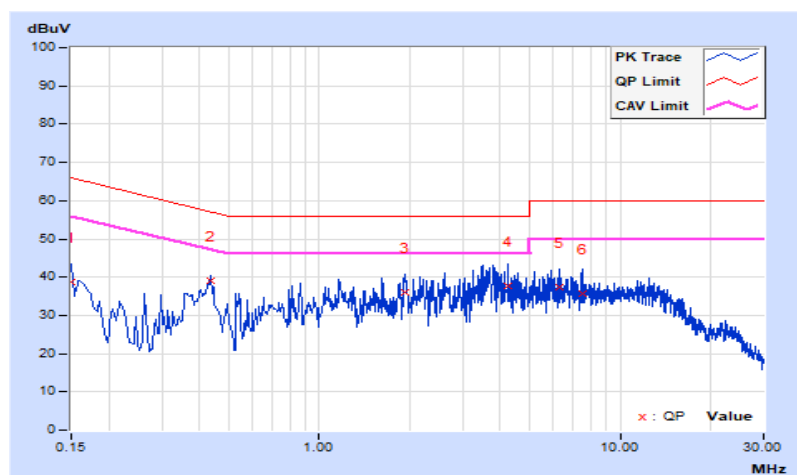
7.7 AC Power Conducted Emissions

RF Mode	802.11a	Channel	CH 60 : 5300 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	22°C, 64% RH
Tested By	Vincent Chen		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.32	28.29	19.18	38.61	29.50	66.00	56.00	-27.39	-26.50
2	0.43714	10.42	28.47	21.94	38.89	32.36	57.12	47.12	-18.23	-14.76
3	1.92200	10.42	25.71	14.47	36.13	24.89	56.00	46.00	-19.87	-21.11
4	4.24200	10.52	27.11	15.26	37.63	25.78	56.00	46.00	-18.37	-20.22
5	6.29400	10.54	26.87	16.98	37.41	27.52	60.00	50.00	-22.59	-22.48
6	7.48200	10.55	25.26	16.47	35.81	27.02	60.00	50.00	-24.19	-22.98

Remarks:

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

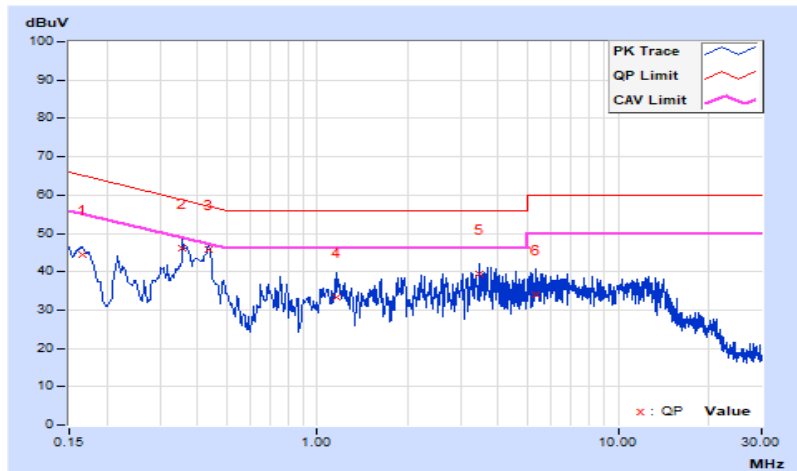


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 64% RH
Tested By	Vincent Chen		

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	0.16535	10.34	34.01	33.20	44.35	43.54	65.19	55.19	-20.84	-11.65
2	0.35800	10.42	35.56	27.99	45.98	38.41	58.77	48.77	-12.79	-10.36
3	0.43370	10.44	35.31	29.59	45.75	40.03	57.18	47.18	-11.43	-7.15
4	1.16200	10.45	22.89	16.75	33.34	27.20	56.00	46.00	-22.66	-18.80
5	3.47800	10.52	28.82	16.37	39.34	26.89	56.00	46.00	-16.66	-19.11
6	5.30600	10.57	23.31	14.84	33.88	25.41	60.00	50.00	-26.12	-24.59

Remarks:

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



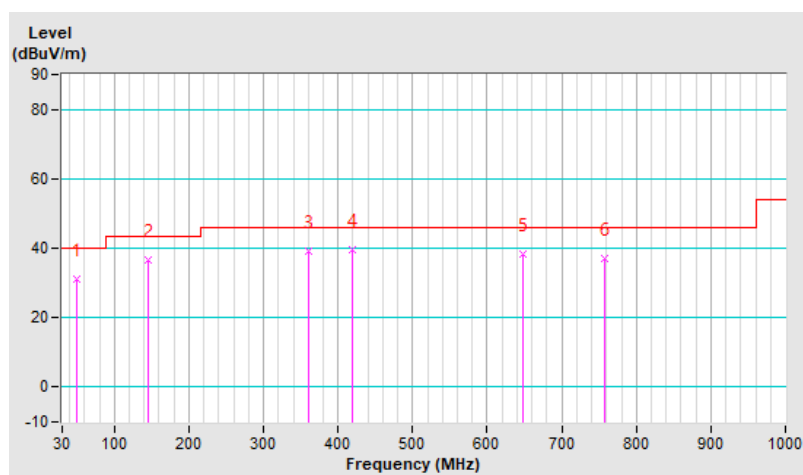
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	50.37	31.1 QP	40.0	-8.9	2.00 H	180	43.6	-12.5
2	144.46	36.6 QP	43.5	-6.9	1.50 H	344	49.4	-12.8
3	359.80	39.3 QP	46.0	-6.7	1.00 H	74	50.1	-10.8
4	419.94	39.4 QP	46.0	-6.6	2.00 H	307	48.5	-9.1
5	647.89	38.2 QP	46.0	-7.8	1.00 H	267	42.3	-4.1
6	757.50	37.2 QP	46.0	-8.8	1.50 H	123	38.3	-1.1

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

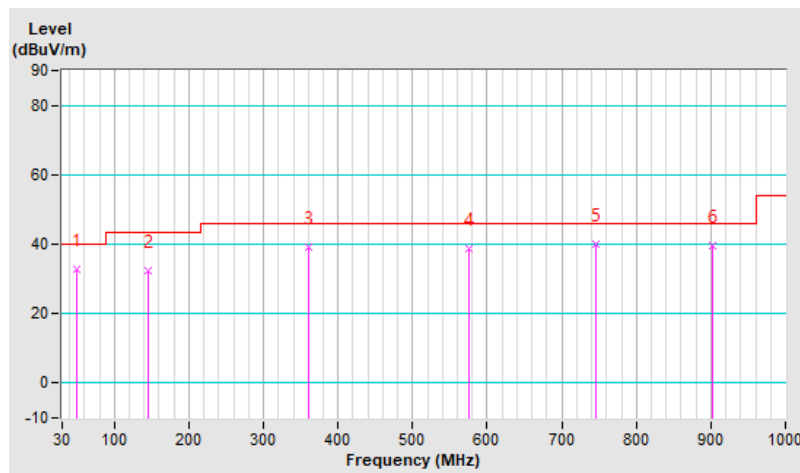


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	49.40	32.9 QP	40.0	-7.1	1.00 V	102	45.4	-12.5
2	144.46	32.4 QP	43.5	-11.1	2.00 V	143	45.2	-12.8
3	359.80	39.1 QP	46.0	-6.9	1.00 V	229	49.9	-10.8
4	576.11	38.8 QP	46.0	-7.2	1.00 V	182	44.4	-5.6
5	745.86	40.0 QP	46.0	-6.0	1.50 V	300	41.4	-1.4
6	902.03	39.7 QP	46.0	-6.3	2.00 V	169	40.4	-0.7

Remarks:

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



7.9 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.2 PK	74.0	-11.8	2.21 H	169	58.5	3.7
2	5150.00	48.5 AV	54.0	-5.5	2.21 H	169	44.8	3.7
3	*5180.00	112.2 PK			2.24 H	167	71.1	41.1
4	*5180.00	102.0 AV			2.24 H	167	60.9	41.1
5	#10360.00	61.0 PK	68.2	-7.2	1.56 H	208	48.9	12.1

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	65.9 PK	74.0	-8.1	1.79 V	189	62.2	3.7
2	5150.00	51.3 AV	54.0	-2.7	1.79 V	189	47.6	3.7
3	*5180.00	110.7 PK			1.84 V	185	69.6	41.1
4	*5180.00	101.0 AV			1.84 V	185	59.9	41.1
5	#10360.00	60.8 PK	68.2	-7.4	2.34 V	165	48.7	12.1

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 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	113.5 PK			1.59 H	203	72.6	40.9
2	*5200.00	103.8 AV			1.59 H	203	62.9	40.9
3	#10400.00	60.5 PK	68.2	-7.7	2.87 H	116	48.5	12.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	111.3 PK			1.59 V	189	70.4	40.9
2	*5200.00	101.5 AV			1.59 V	189	60.6	40.9
3	#10400.00	59.3 PK	68.2	-8.9	2.56 V	109	47.3	12.0

Remarks:

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



RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	113.8 PK			1.75 H	212	73.0	40.8
2	*5240.00	104.1 AV			1.75 H	212	63.3	40.8
3	5350.00	58.8 PK	74.0	-15.2	1.69 H	235	55.8	3.0
4	5350.00	45.3 AV	54.0	-8.7	1.69 H	235	42.3	3.0
5	#10480.00	60.9 PK	68.2	-7.3	2.35 H	111	48.6	12.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	113.4 PK			1.51 V	189	72.6	40.8
2	*5240.00	102.1 AV			1.51 V	189	61.3	40.8
3	5350.00	58.2 PK	74.0	-15.8	1.51 V	187	55.2	3.0
4	5350.00	44.7 AV	54.0	-9.3	1.51 V	187	41.7	3.0
5	#10480.00	59.8 PK	68.2	-8.4	2.32 V	152	47.5	12.3

Remarks:

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



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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.0 PK	74.0	-15.0	1.50 H	213	55.3	3.7
2	5150.00	45.5 AV	54.0	-8.5	1.50 H	213	41.8	3.7
3	*5260.00	112.9 PK			1.50 H	213	72.2	40.7
4	*5260.00	103.2 AV			1.50 H	213	62.5	40.7
5	#10520.00	61.1 PK	68.2	-7.1	1.54 H	269	48.7	12.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.9 PK	74.0	-15.1	1.38 V	206	55.2	3.7
2	5150.00	45.4 AV	54.0	-8.6	1.38 V	206	41.7	3.7
3	*5260.00	111.5 PK			1.55 V	190	70.8	40.7
4	*5260.00	100.9 AV			1.55 V	190	60.2	40.7
5	#10520.00	60.0 PK	68.2	-8.2	2.43 V	298	47.6	12.4

Remarks:

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



RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	113.6 PK			1.33 H	212	73.0	40.6
2	*5300.00	103.8 AV			1.33 H	212	63.2	40.6
3	10600.00	61.0 PK	74.0	-13.0	2.41 H	123	48.6	12.4
4	10600.00	48.9 AV	54.0	-5.1	2.41 H	123	36.5	12.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	110.9 PK			1.59 V	359	70.3	40.6
2	*5300.00	101.0 AV			1.59 V	359	60.4	40.6
3	10600.00	60.2 PK	74.0	-13.8	2.34 V	186	47.8	12.4
4	10600.00	48.2 AV	54.0	-5.8	2.34 V	186	35.8	12.4

Remarks:

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



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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	113.2 PK			1.30 H	212	72.6	40.6
2	*5320.00	103.1 AV			1.30 H	212	62.5	40.6
3	5350.00	66.6 PK	74.0	-7.4	1.25 H	197	63.6	3.0
4	5350.00	51.3 AV	54.0	-2.7	1.25 H	197	48.3	3.0
5	10640.00	61.2 PK	74.0	-12.8	2.24 H	161	48.8	12.4
6	10640.00	48.8 AV	54.0	-5.2	2.24 H	161	36.4	12.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	110.6 PK			1.61 V	1	70.0	40.6
2	*5320.00	101.2 AV			1.61 V	1	60.6	40.6
3	5350.00	66.5 PK	74.0	-7.5	1.57 V	23	63.5	3.0
4	5350.00	51.2 AV	54.0	-2.8	1.57 V	23	48.2	3.0
5	10640.00	59.9 PK	74.0	-14.1	2.78 V	325	47.5	12.4
6	10640.00	47.6 AV	54.0	-6.4	2.78 V	325	35.2	12.4

Remarks:

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



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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.1 PK	74.0	-14.9	1.72 H	231	55.8	3.3
2	5460.00	45.8 AV	54.0	-8.2	1.72 H	231	42.5	3.3
3	#5470.00	65.6 PK	68.2	-2.6	1.53 H	220	62.3	3.3
4	*5500.00	112.9 PK			1.68 H	233	71.8	41.1
5	*5500.00	103.2 AV			1.68 H	233	62.1	41.1
6	11000.00	60.2 PK	74.0	-13.8	2.58 H	174	48.6	11.6
7	11000.00	48.1 AV	54.0	-5.9	2.58 H	174	36.5	11.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.7 PK	74.0	-15.3	1.41 V	29	55.4	3.3
2	5460.00	45.2 AV	54.0	-8.8	1.41 V	29	41.9	3.3
3	#5470.00	63.0 PK	68.2	-5.2	1.38 V	13	59.7	3.3
4	*5500.00	112.5 PK			1.46 V	0	71.4	41.1
5	*5500.00	102.4 AV			1.46 V	0	61.3	41.1
6	11000.00	59.1 PK	74.0	-14.9	2.06 V	189	47.5	11.6
7	11000.00	46.9 AV	54.0	-7.1	2.06 V	189	35.3	11.6

Remarks:

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



RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	111.1 PK			1.03 H	235	69.7	41.4
2	*5580.00	101.9 AV			1.03 H	235	60.5	41.4
3	11160.00	60.2 PK	74.0	-13.8	2.32 H	197	48.5	11.7
4	11160.00	48.1 AV	54.0	-5.9	2.32 H	197	36.4	11.7

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	111.0 PK			1.37 V	360	69.6	41.4
2	*5580.00	101.8 AV			1.37 V	360	60.4	41.4
3	11160.00	59.9 PK	74.0	-14.1	1.68 V	205	48.2	11.7
4	11160.00	47.8 AV	54.0	-6.2	1.68 V	205	36.1	11.7

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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	109.8 PK			1.61 H	154	68.5	41.3
2	*5700.00	99.8 AV			1.61 H	154	58.5	41.3
3	#5725.00	65.7 PK	68.2	-2.5	1.63 H	159	61.9	3.8
4	11400.00	60.6 PK	74.0	-13.4	2.05 H	229	48.4	12.2
5	11400.00	48.5 AV	54.0	-5.5	2.05 H	229	36.3	12.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	109.9 PK			1.35 V	355	68.6	41.3
2	*5700.00	99.0 AV			1.35 V	355	57.7	41.3
3	#5725.00	65.5 PK	68.2	-2.7	1.28 V	315	61.7	3.8
4	11400.00	60.4 PK	74.0	-13.6	2.16 V	188	48.2	12.2
5	11400.00	48.3 AV	54.0	-5.7	2.16 V	188	36.1	12.2

Remarks:

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



RF Mode	802.11a	Channel	CH 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	112.8 PK			2.02 H	161	71.3	41.5
2	*5720.00	103.0 AV			2.02 H	161	61.5	41.5
3	#5850.00	59.8 PK	68.2	-8.4	2.02 H	161	55.3	4.5
4	11440.00	60.3 PK	74.0	-13.7	2.35 H	178	48.3	12.0
5	11440.00	48.2 AV	54.0	-5.8	2.35 H	178	36.2	12.0

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	*5720.00	112.0 PK			1.38 V	356	70.5	41.5
2	*5720.00	101.1 AV			1.38 V	356	59.6	41.5
3	#5850.00	59.6 PK	68.2	-8.6	1.38 V	356	55.1	4.5
4	11440.00	59.8 PK	74.0	-14.2	2.67 V	182	47.8	12.0
5	11440.00	47.6 AV	54.0	-6.4	2.67 V	182	35.6	12.0

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 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5631.20	58.9 PK	68.2	-9.3	1.96 H	223	55.2	3.7
2	*5745.00	112.7 PK			2.04 H	160	71.1	41.6
3	*5745.00	102.3 AV			2.04 H	160	60.7	41.6
4	#5972.40	59.5 PK	68.2	-8.7	1.96 H	223	54.9	4.6
5	11490.00	60.0 PK	74.0	-14.0	1.65 H	208	48.3	11.7
6	11490.00	48.1 AV	54.0	-5.9	1.65 H	208	36.4	11.7

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	#5647.60	59.2 PK	68.2	-9.0	1.32 V	225	55.5	3.7
2	*5745.00	111.2 PK			1.35 V	220	69.6	41.6
3	*5745.00	101.0 AV			1.35 V	220	59.4	41.6
4	#5955.20	59.3 PK	68.2	-8.9	1.32 V	225	54.7	4.6
5	11490.00	59.3 PK	74.0	-14.7	2.14 V	187	47.6	11.7
6	11490.00	47.1 AV	54.0	-6.9	2.14 V	187	35.4	11.7

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 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5630.40	58.4 PK	68.2	-9.8	1.36 H	163	54.7	3.7
2	*5785.00	111.3 PK			1.48 H	168	69.6	41.7
3	*5785.00	101.2 AV			1.48 H	168	59.5	41.7
4	#5958.40	59.5 PK	68.2	-8.7	1.36 H	163	54.9	4.6
5	11570.00	60.2 PK	74.0	-13.8	2.35 H	105	48.6	11.6
6	11570.00	48.1 AV	54.0	-5.9	2.35 H	105	36.5	11.6

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	#5601.60	58.7 PK	68.2	-9.5	2.31 V	227	55.1	3.6
2	*5785.00	110.6 PK			2.36 V	223	68.9	41.7
3	*5785.00	101.0 AV			2.36 V	223	59.3	41.7
4	#5958.40	59.2 PK	68.2	-9.0	2.31 V	227	54.6	4.6
5	11570.00	59.7 PK	74.0	-14.3	1.63 V	208	48.1	11.6
6	11570.00	47.8 AV	54.0	-6.2	1.63 V	208	36.2	11.6

Remarks:

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

RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5635.20	59.0 PK	68.2	-9.2	1.35 H	182	55.3	3.7
2	*5825.00	111.7 PK			1.43 H	167	69.8	41.9
3	*5825.00	102.1 AV			1.43 H	167	60.2	41.9
4	#5986.40	60.7 PK	68.2	-7.5	1.35 H	182	56.1	4.6
5	11650.00	59.6 PK	74.0	-14.4	2.63 H	188	48.3	11.3
6	11650.00	47.5 AV	54.0	-6.5	2.63 H	188	36.2	11.3

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	#5600.80	58.6 PK	68.2	-9.6	1.35 V	223	55.0	3.6
2	*5825.00	110.8 PK			1.35 V	223	68.9	41.9
3	*5825.00	101.2 AV			1.35 V	223	59.3	41.9
4	#5970.00	59.5 PK	68.2	-8.7	1.35 V	223	54.9	4.6
5	11650.00	58.9 PK	74.0	-15.1	2.04 V	169	47.6	11.3
6	11650.00	46.7 AV	54.0	-7.3	2.04 V	169	35.4	11.3

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.3 PK	74.0	-8.7	2.29 H	208	61.6	3.7
2	5150.00	50.9 AV	54.0	-3.1	2.29 H	208	47.2	3.7
3	*5180.00	114.8 PK			2.25 H	203	73.7	41.1
4	*5180.00	101.2 AV			2.25 H	203	60.1	41.1
5	#10360.00	60.7 PK	68.2	-7.5	2.22 H	177	48.6	12.1

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	66.1 PK	74.0	-7.9	1.77 V	193	62.4	3.7
2	5150.00	51.2 AV	54.0	-2.8	1.77 V	193	47.5	3.7
3	*5180.00	113.8 PK			1.80 V	189	72.7	41.1
4	*5180.00	99.9 AV			1.80 V	189	58.8	41.1
5	#10360.00	60.6 PK	68.2	-7.6	2.31 V	166	48.5	12.1

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 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	119.0 PK			1.93 H	229	78.0	41.0
2	*5200.00	105.4 AV			1.93 H	229	64.4	41.0
3	#10400.00	60.9 PK	68.2	-7.3	2.33 H	105	48.9	12.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	116.9 PK			1.79 V	186	75.9	41.0
2	*5200.00	103.4 AV			1.79 V	186	62.4	41.0
3	#10400.00	60.5 PK	68.2	-7.7	2.31 V	173	48.5	12.0

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 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	118.2 PK			1.84 H	228	77.4	40.8
2	*5240.00	104.4 AV			1.84 H	228	63.6	40.8
3	5350.00	58.7 PK	74.0	-15.3	1.88 H	231	55.8	2.9
4	5350.00	45.3 AV	54.0	-8.7	1.88 H	231	42.4	2.9
5	#10480.00	60.4 PK	68.2	-7.8	2.32 H	175	48.1	12.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	114.5 PK			1.51 V	189	73.7	40.8
2	*5240.00	101.4 AV			1.51 V	189	60.6	40.8
3	5350.00	58.5 PK	74.0	-15.5	1.58 V	196	55.6	2.9
4	5350.00	45.2 AV	54.0	-8.8	1.58 V	196	42.3	2.9
5	#10480.00	59.7 PK	68.2	-8.5	2.63 V	182	47.4	12.3

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	1.30 H	208	55.8	3.7
2	5150.00	45.4 AV	54.0	-8.6	1.30 H	208	41.7	3.7
3	*5260.00	117.0 PK			1.27 H	203	76.3	40.7
4	*5260.00	103.9 AV			1.27 H	203	63.2	40.7
5	#10520.00	61.0 PK	68.2	-7.2	2.34 H	175	48.6	12.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.4 PK	74.0	-14.6	1.52 V	192	55.7	3.7
2	5150.00	46.2 AV	54.0	-7.8	1.52 V	192	42.5	3.7
3	*5260.00	114.4 PK			1.49 V	189	73.7	40.7
4	*5260.00	100.9 AV			1.49 V	189	60.2	40.7
5	#10520.00	60.0 PK	68.2	-8.2	2.64 V	181	47.6	12.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	117.0 PK			1.26 H	204	76.4	40.6
2	*5300.00	103.3 AV			1.26 H	204	62.7	40.6
3	10600.00	60.4 PK	74.0	-13.6	2.38 H	174	48.0	12.4
4	10600.00	48.6 AV	54.0	-5.4	2.38 H	174	36.2	12.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	113.7 PK			1.60 V	3	73.1	40.6
2	*5300.00	100.8 AV			1.60 V	3	60.2	40.6
3	10600.00	59.8 PK	74.0	-14.2	2.71 V	190	47.4	12.4
4	10600.00	47.6 AV	54.0	-6.4	2.71 V	190	35.2	12.4

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	115.7 PK			1.23 H	203	75.1	40.6
2	*5320.00	102.3 AV			1.23 H	203	61.7	40.6
3	5350.00	67.5 PK	74.0	-6.5	1.31 H	210	64.6	2.9
4	5350.00	51.1 AV	54.0	-2.9	1.31 H	210	48.2	2.9
5	10640.00	60.8 PK	74.0	-13.2	2.32 H	176	48.4	12.4
6	10640.00	48.8 AV	54.0	-5.2	2.32 H	176	36.4	12.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	113.3 PK			1.59 V	0	72.7	40.6
2	*5320.00	99.7 AV			1.59 V	0	59.1	40.6
3	5350.00	63.4 PK	74.0	-10.6	1.63 V	5	60.5	2.9
4	5350.00	47.8 AV	54.0	-6.2	1.63 V	5	44.9	2.9
5	10640.00	59.9 PK	74.0	-14.1	2.72 V	186	47.5	12.4
6	10640.00	47.6 AV	54.0	-6.4	2.72 V	186	35.2	12.4

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.9 PK	74.0	-14.1	1.62 H	238	56.6	3.3
2	5460.00	45.9 AV	54.0	-8.1	1.62 H	238	42.6	3.3
3	#5470.00	65.5 PK	68.2	-2.7	1.62 H	138	62.2	3.3
4	*5500.00	114.7 PK			1.58 H	233	73.6	41.1
5	*5500.00	101.4 AV			1.58 H	233	60.3	41.1
6	11000.00	59.3 PK	74.0	-14.7	2.31 H	174	47.8	11.5
7	11000.00	47.4 AV	54.0	-6.6	2.31 H	174	35.9	11.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.6 PK	74.0	-14.4	1.43 V	6	56.3	3.3
2	5460.00	45.6 AV	54.0	-8.4	1.43 V	6	42.3	3.3
3	#5470.00	64.8 PK	68.2	-3.4	1.43 V	6	61.5	3.3
4	*5500.00	114.2 PK			1.40 V	1	73.1	41.1
5	*5500.00	100.7 AV			1.40 V	1	59.6	41.1
6	11000.00	59.0 PK	74.0	-15.0	2.62 V	177	47.5	11.5
7	11000.00	46.9 AV	54.0	-7.1	2.62 V	177	35.4	11.5

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	116.7 PK			1.61 H	233	75.3	41.4
2	*5580.00	103.1 AV			1.61 H	233	61.7	41.4
3	11160.00	60.2 PK	74.0	-13.8	2.30 H	174	48.5	11.7
4	11160.00	48.0 AV	54.0	-6.0	2.30 H	174	36.3	11.7

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	116.0 PK			1.35 V	1	74.6	41.4
2	*5580.00	102.6 AV			1.35 V	1	61.2	41.4
3	11160.00	59.1 PK	74.0	-14.9	1.83 V	201	47.4	11.7
4	11160.00	46.9 AV	54.0	-7.1	1.83 V	201	35.2	11.7

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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	109.8 PK			2.19 H	154	68.4	41.4
2	*5700.00	96.1 AV			2.19 H	154	54.7	41.4
3	#5725.00	65.5 PK	68.2	-2.7	2.23 H	161	61.7	3.8
4	11400.00	60.8 PK	74.0	-13.2	2.45 H	179	48.6	12.2
5	11400.00	48.9 AV	54.0	-5.1	2.45 H	179	36.7	12.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	107.9 PK			1.43 V	357	66.5	41.4
2	*5700.00	94.8 AV			1.43 V	357	53.4	41.4
3	#5725.00	63.1 PK	68.2	-5.1	1.51 V	350	59.3	3.8
4	11400.00	59.6 PK	74.0	-14.4	2.63 V	181	47.4	12.2
5	11400.00	47.5 AV	54.0	-6.5	2.63 V	181	35.3	12.2

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	115.7 PK			2.04 H	161	74.2	41.5
2	*5720.00	102.4 AV			2.04 H	161	60.9	41.5
3	#5850.00	59.4 PK	68.2	-8.8	2.11 H	167	54.8	4.6
4	11440.00	60.1 PK	74.0	-13.9	2.33 H	174	48.1	12.0
5	11440.00	48.4 AV	54.0	-5.6	2.33 H	174	36.4	12.0

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	*5720.00	113.7 PK			2.00 V	2	72.2	41.5
2	*5720.00	100.5 AV			2.00 V	2	59.0	41.5
3	#5850.00	59.0 PK	68.2	-9.2	2.03 V	7	54.4	4.6
4	11440.00	59.4 PK	74.0	-14.6	2.62 V	175	47.4	12.0
5	11440.00	47.0 AV	54.0	-7.0	2.62 V	175	35.0	12.0

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 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5615.20	60.1 PK	68.2	-8.1	1.63 H	165	56.4	3.7
2	*5745.00	115.7 PK			1.59 H	162	74.1	41.6
3	*5745.00	102.2 AV			1.59 H	162	60.6	41.6
4	#5968.00	61.0 PK	68.2	-7.2	1.63 H	165	56.4	4.6
5	11490.00	60.1 PK	74.0	-13.9	2.30 H	172	48.4	11.7
6	11490.00	48.2 AV	54.0	-5.8	2.30 H	172	36.5	11.7

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5630.80	60.9 PK	68.2	-7.3	2.30 V	220	57.2	3.7
2	*5745.00	114.2 PK			2.36 V	221	72.6	41.6
3	*5745.00	101.3 AV			2.36 V	221	59.7	41.6
4	#5949.20	60.2 PK	68.2	-8.0	2.30 V	220	55.6	4.6
5	11490.00	59.2 PK	74.0	-14.8	2.66 V	173	47.5	11.7
6	11490.00	47.3 AV	54.0	-6.7	2.66 V	173	35.6	11.7

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 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5616.80	60.5 PK	68.2	-7.7	1.53 H	158	56.8	3.7
2	*5785.00	114.5 PK			1.51 H	161	72.8	41.7
3	*5785.00	101.1 AV			1.51 H	161	59.4	41.7
4	#5965.20	60.6 PK	68.2	-7.6	1.53 H	158	56.0	4.6
5	11570.00	60.4 PK	74.0	-13.6	2.31 H	177	48.8	11.6
6	11570.00	48.5 AV	54.0	-5.5	2.31 H	177	36.9	11.6
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	#5601.60	58.7 PK	68.2	-9.5	2.36 V	228	55.1	3.6
2	*5785.00	113.7 PK			2.32 V	222	72.0	41.7
3	*5785.00	100.1 AV			2.32 V	222	58.4	41.7
4	#5958.40	59.2 PK	68.2	-9.0	2.36 V	228	54.6	4.6
5	11570.00	59.0 PK	74.0	-15.0	2.62 V	178	47.4	11.6
6	11570.00	47.1 AV	54.0	-6.9	2.62 V	178	35.5	11.6

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5630.00	60.9 PK	68.2	-7.3	1.51 H	172	57.2	3.7
2	*5825.00	114.0 PK			1.48 H	166	72.1	41.9
3	*5825.00	100.8 AV			1.48 H	166	58.9	41.9
4	#5966.00	60.8 PK	68.2	-7.4	1.51 H	172	56.2	4.6
5	11650.00	60.1 PK	74.0	-13.9	2.33 H	172	48.8	11.3
6	11650.00	47.1 AV	54.0	-6.9	2.33 H	172	35.8	11.3
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	#5647.60	58.2 PK	68.2	-10.0	2.28 V	193	54.5	3.7
2	*5825.00	113.3 PK			2.20 V	221	71.4	41.9
3	*5825.00	100.1 AV			2.20 V	221	58.2	41.9
4	#5970.00	59.5 PK	68.2	-8.7	2.28 V	193	54.9	4.6
5	11650.00	58.6 PK	74.0	-15.4	2.62 V	174	47.3	11.3
6	11650.00	46.4 AV	54.0	-7.6	2.62 V	174	35.1	11.3

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 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.3 PK	74.0	-9.7	1.05 H	199	60.6	3.7
2	5150.00	51.1 AV	54.0	-2.9	1.05 H	199	47.4	3.7
3	*5190.00	107.1 PK			1.00 H	195	66.1	41.0
4	*5190.00	93.6 AV			1.00 H	195	52.6	41.0
5	#10380.00	60.6 PK	68.2	-7.6	2.31 H	174	48.6	12.0

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	63.9 PK	74.0	-10.1	1.79 V	193	60.2	3.7
2	5150.00	49.8 AV	54.0	-4.2	1.79 V	193	46.1	3.7
3	*5190.00	106.1 PK			1.72 V	190	65.1	41.0
4	*5190.00	92.2 AV			1.72 V	190	51.2	41.0
5	#10380.00	59.3 PK	68.2	-8.9	2.62 V	173	47.3	12.0

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 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.2 PK	74.0	-13.8	1.66 H	217	56.5	3.7
2	5150.00	47.0 AV	54.0	-7.0	1.66 H	217	43.3	3.7
3	*5230.00	114.3 PK			1.63 H	213	73.5	40.8
4	*5230.00	100.9 AV			1.63 H	213	60.1	40.8
5	5350.00	59.3 PK	74.0	-14.7	1.66 H	217	56.4	2.9
6	5350.00	45.0 AV	54.0	-9.0	1.66 H	217	42.1	2.9
7	#10460.00	59.8 PK	68.2	-8.4	2.29 H	173	47.6	12.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.3 PK	74.0	-13.7	1.66 V	195	56.6	3.7
2	5150.00	47.2 AV	54.0	-6.8	1.66 V	195	43.5	3.7
3	*5230.00	110.9 PK			1.62 V	191	70.1	40.8
4	*5230.00	98.1 AV			1.62 V	191	57.3	40.8
5	5350.00	58.5 PK	74.0	-15.5	1.66 V	195	55.6	2.9
6	5350.00	45.2 AV	54.0	-8.8	1.66 V	195	42.3	2.9
7	#10460.00	59.5 PK	68.2	-8.7	2.51 V	174	47.3	12.2

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.8 PK	74.0	-14.2	1.38 H	222	56.1	3.7
2	5150.00	46.6 AV	54.0	-7.4	1.38 H	222	42.9	3.7
3	*5270.00	113.1 PK			1.43 H	212	72.4	40.7
4	*5270.00	100.5 AV			1.43 H	212	59.8	40.7
5	#10540.00	59.7 PK	68.2	-8.5	2.38 H	179	47.3	12.4

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.0 PK	74.0	-15.0	1.43 V	181	55.3	3.7
2	5150.00	46.6 AV	54.0	-7.4	1.43 V	181	42.9	3.7
3	*5270.00	109.6 PK			1.48 V	189	68.9	40.7
4	*5270.00	97.7 AV			1.48 V	189	57.0	40.7
5	#10540.00	59.2 PK	68.2	-9.0	2.24 V	165	46.8	12.4

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	108.6 PK			1.22 H	203	68.0	40.6
2	*5310.00	95.6 AV			1.22 H	203	55.0	40.6
3	5350.00	65.6 PK	74.0	-8.4	1.25 H	197	62.7	2.9
4	5350.00	51.3 AV	54.0	-2.7	1.25 H	197	48.4	2.9
5	10620.00	60.6 PK	74.0	-13.4	2.78 H	198	48.3	12.3
6	10620.00	49.1 AV	54.0	-4.9	2.78 H	198	36.8	12.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	106.0 PK			1.59 V	1	65.4	40.6
2	*5310.00	92.9 AV			1.59 V	1	52.3	40.6
3	5350.00	62.9 PK	74.0	-11.1	1.57 V	3	60.0	2.9
4	5350.00	49.3 AV	54.0	-4.7	1.57 V	3	46.4	2.9
5	10620.00	60.1 PK	74.0	-13.9	2.05 V	189	47.8	12.3
6	10620.00	48.0 AV	54.0	-6.0	2.05 V	189	35.7	12.3

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.0 PK	74.0	-13.0	1.62 H	205	57.7	3.3
2	5460.00	48.5 AV	54.0	-5.5	1.62 H	205	45.2	3.3
3	#5470.00	65.6 PK	68.2	-2.6	1.53 H	242	62.3	3.3
4	*5510.00	108.9 PK			1.64 H	232	67.8	41.1
5	*5510.00	96.0 AV			1.64 H	232	54.9	41.1
6	11020.00	59.8 PK	74.0	-14.2	2.47 H	193	48.2	11.6
7	11020.00	48.1 AV	54.0	-5.9	2.47 H	193	36.5	11.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.3 PK	74.0	-14.7	1.36 V	341	56.0	3.3
2	5460.00	46.5 AV	54.0	-7.5	1.36 V	341	43.2	3.3
3	#5470.00	63.1 PK	68.2	-5.1	1.41 V	347	59.8	3.3
4	*5510.00	107.9 PK			1.45 V	358	66.8	41.1
5	*5510.00	95.0 AV			1.45 V	358	53.9	41.1
6	11020.00	59.5 PK	74.0	-14.5	2.34 V	208	47.9	11.6
7	11020.00	47.3 AV	54.0	-6.7	2.34 V	208	35.7	11.6

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	111.6 PK			1.59 H	233	70.3	41.3
2	*5550.00	99.1 AV			1.59 H	233	57.8	41.3
3	11100.00	59.9 PK	74.0	-14.1	2.42 H	183	48.1	11.8
4	11100.00	48.0 AV	54.0	-6.0	2.42 H	183	36.2	11.8

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	111.3 PK			1.38 V	359	70.0	41.3
2	*5550.00	98.9 AV			1.38 V	359	57.6	41.3
3	11100.00	59.4 PK	74.0	-14.6	2.82 V	147	47.6	11.8
4	11100.00	47.2 AV	54.0	-6.8	2.82 V	147	35.4	11.8

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	110.8 PK			1.57 H	153	69.4	41.4
2	*5670.00	97.9 AV			1.57 H	153	56.5	41.4
3	#5725.00	65.5 PK	68.2	-2.7	1.52 H	161	61.7	3.8
4	11340.00	60.6 PK	74.0	-13.4	2.25 H	176	48.4	12.2
5	11340.00	48.7 AV	54.0	-5.3	2.25 H	176	36.5	12.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	109.6 PK			1.33 V	358	68.2	41.4
2	*5670.00	97.2 AV			1.33 V	358	55.8	41.4
3	#5725.00	63.8 PK	68.2	-4.4	1.33 V	358	60.0	3.8
4	11340.00	60.0 PK	74.0	-14.0	2.97 V	183	47.8	12.2
5	11340.00	47.9 AV	54.0	-6.1	2.97 V	183	35.7	12.2

Remarks:

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



RF Mode	802.11ax (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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5710.00	112.5 PK			2.08 H	160	71.1	41.4
2	*5710.00	100.0 AV			2.08 H	160	58.6	41.4
3	#5850.00	61.0 PK	68.2	-7.2	2.04 H	159	56.4	4.6
4	11420.00	60.8 PK	74.0	-13.2	1.74 H	228	48.7	12.1
5	11420.00	48.6 AV	54.0	-5.4	1.74 H	228	36.5	12.1

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	*5710.00	110.5 PK			1.37 V	357	69.1	41.4
2	*5710.00	97.9 AV			1.37 V	357	56.5	41.4
3	#5850.00	59.5 PK	68.2	-8.7	1.37 V	347	54.9	4.6
4	11420.00	59.6 PK	74.0	-14.4	2.35 V	220	47.5	12.1
5	11420.00	47.5 AV	54.0	-6.5	2.35 V	220	35.4	12.1

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 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.00	57.2 PK	68.2	-11.0	1.57 H	178	53.5	3.7
2	*5755.00	112.4 PK			1.61 H	161	70.8	41.6
3	*5755.00	99.4 AV			1.61 H	161	57.8	41.6
4	#5982.80	58.7 PK	68.2	-9.5	1.57 H	178	54.1	4.6
5	11510.00	60.0 PK	74.0	-14.0	2.76 H	195	48.4	11.6
6	11510.00	47.7 AV	54.0	-6.3	2.76 H	195	36.1	11.6

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	#5630.40	58.5 PK	68.2	-9.7	2.14 V	208	54.8	3.7
2	*5755.00	112.2 PK			2.27 V	223	70.6	41.6
3	*5755.00	99.1 AV			2.27 V	223	57.5	41.6
4	#5926.40	58.8 PK	68.2	-9.4	2.14 V	208	54.3	4.5
5	11510.00	59.0 PK	74.0	-15.0	1.58 V	103	47.4	11.6
6	11510.00	46.8 AV	54.0	-7.2	1.58 V	103	35.2	11.6

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 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.80	58.9 PK	68.2	-9.3	1.43 H	161	55.1	3.8
2	*5795.00	111.7 PK			1.48 H	165	69.9	41.8
3	*5795.00	99.0 AV			1.48 H	165	57.2	41.8
4	#5977.20	58.9 PK	68.2	-9.3	1.43 H	161	54.3	4.6
5	11590.00	59.7 PK	74.0	-14.3	2.33 H	107	48.2	11.5
6	11590.00	47.8 AV	54.0	-6.2	2.33 H	107	36.3	11.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5633.20	59.0 PK	68.2	-9.2	1.42 V	196	55.3	3.7
2	*5795.00	110.9 PK			1.32 V	223	69.1	41.8
3	*5795.00	98.3 AV			1.32 V	223	56.5	41.8
4	#5965.20	59.7 PK	68.2	-8.5	1.42 V	196	55.1	4.6
5	11590.00	59.1 PK	74.0	-14.9	2.04 V	158	47.6	11.5
6	11590.00	47.3 AV	54.0	-6.7	2.04 V	158	35.8	11.5

Remarks:

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

RF Mode	802.11ax (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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5143.48	63.3 PK	74.0	-10.7	1.43 H	211	59.6	3.7
2	5143.48	51.3 AV	54.0	-2.7	1.43 H	211	47.6	3.7
3	*5210.00	104.7 PK			1.75 H	214	63.8	40.9
4	*5210.00	91.8 AV			1.75 H	214	50.9	40.9
5	#10420.00	60.7 PK	68.2	-7.5	2.34 H	197	48.7	12.0

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	62.3 PK	74.0	-11.7	1.70 V	189	58.6	3.7
2	5150.00	50.3 AV	54.0	-3.7	1.70 V	189	46.6	3.7
3	*5210.00	100.5 PK			1.70 V	189	59.6	40.9
4	*5210.00	89.2 AV			1.70 V	189	48.3	40.9
5	#10420.00	59.6 PK	68.2	-8.6	2.43 V	269	47.6	12.0

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 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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	103.9 PK			1.36 H	202	63.3	40.6
2	*5290.00	91.6 AV			1.36 H	202	51.0	40.6
3	5350.00	64.2 PK	74.0	-9.8	1.33 H	200	61.3	2.9
4	5350.00	51.5 AV	54.0	-2.5	1.33 H	200	48.6	2.9
5	#10580.00	61.0 PK	68.2	-7.2	2.41 H	166	48.6	12.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	101.0 PK			1.62 V	359	60.4	40.6
2	*5290.00	88.9 AV			1.62 V	359	48.3	40.6
3	5350.00	63.5 PK	74.0	-10.5	1.68 V	345	60.6	2.9
4	5350.00	51.1 AV	54.0	-2.9	1.68 V	345	48.2	2.9
5	#10580.00	59.7 PK	68.2	-8.5	1.78 V	225	47.3	12.4

Remarks:

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



RF Mode	802.11ax (HE80)	Channel	CH 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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.4 PK	74.0	-9.6	1.58 H	236	61.1	3.3
2	5460.00	51.5 AV	54.0	-2.5	1.58 H	236	48.2	3.3
3	#5470.00	65.3 PK	68.2	-2.9	1.75 H	221	62.0	3.3
4	*5530.00	104.4 PK			1.62 H	233	63.2	41.2
5	*5530.00	92.0 AV			1.62 H	233	50.8	41.2
6	11060.00	60.0 PK	74.0	-14.0	2.37 H	154	48.3	11.7
7	11060.00	47.9 AV	54.0	-6.1	2.37 H	154	36.2	11.7

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.4 PK	74.0	-10.6	1.35 V	3	60.1	3.3
2	5460.00	49.5 AV	54.0	-4.5	1.35 V	3	46.2	3.3
3	#5470.00	63.7 PK	68.2	-4.5	1.27 V	6	60.4	3.3
4	*5530.00	103.8 PK			1.37 V	1	62.6	41.2
5	*5530.00	91.5 AV			1.37 V	1	50.3	41.2
6	11060.00	59.2 PK	74.0	-14.8	2.04 V	168	47.5	11.7
7	11060.00	47.1 AV	54.0	-6.9	2.04 V	168	35.4	11.7

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	108.5 PK			1.07 H	235	67.0	41.5
2	*5610.00	96.2 AV			1.07 H	235	54.7	41.5
3	#5725.00	62.8 PK	68.2	-5.4	1.07 H	235	59.0	3.8
4	11220.00	60.4 PK	74.0	-13.6	2.47 H	163	48.6	11.8
5	11220.00	48.3 AV	54.0	-5.7	2.47 H	163	36.5	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	108.3 PK			1.43 V	357	66.8	41.5
2	*5610.00	96.1 AV			1.43 V	357	54.6	41.5
3	#5725.00	62.2 PK	68.2	-6.0	1.41 V	342	58.4	3.8
4	11220.00	59.1 PK	74.0	-14.9	2.97 V	154	47.3	11.8
5	11220.00	47.0 AV	54.0	-7.0	2.97 V	154	35.2	11.8

Remarks:

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



RF Mode	802.11ax (HE80)	Channel	CH 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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5690.00	108.8 PK			1.55 H	153	67.4	41.4
2	*5690.00	96.0 AV			1.55 H	153	54.6	41.4
3	#5850.00	59.5 PK	68.2	-8.7	1.49 H	163	54.9	4.6
4	11380.00	60.8 PK	74.0	-13.2	2.41 H	179	48.5	12.3
5	11380.00	48.6 AV	54.0	-5.4	2.41 H	179	36.3	12.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5690.00	107.4 PK			1.50 V	355	66.0	41.4
2	*5690.00	94.7 AV			1.50 V	355	53.3	41.4
3	#5850.00	58.8 PK	68.2	-9.4	1.43 V	325	54.2	4.6
4	11380.00	59.6 PK	74.0	-14.4	2.34 V	178	47.3	12.3
5	11380.00	47.7 AV	54.0	-6.3	2.34 V	178	35.4	12.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
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=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.80	61.6 PK	68.2	-6.6	1.52 H	162	57.9	3.7
2	*5775.00	108.2 PK			1.58 H	171	66.5	41.7
3	*5775.00	96.2 AV			1.58 H	171	54.5	41.7
4	#5979.20	59.6 PK	68.2	-8.6	1.52 H	162	55.0	4.6
5	11550.00	60.0 PK	74.0	-14.0	2.04 H	193	48.5	11.5
6	11550.00	47.9 AV	54.0	-6.1	2.04 H	193	36.4	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.60	60.3 PK	68.2	-7.9	1.48 V	196	56.6	3.7
2	*5775.00	108.0 PK			1.37 V	221	66.3	41.7
3	*5775.00	95.8 AV			1.37 V	221	54.1	41.7
4	#5928.40	60.1 PK	68.2	-8.1	1.48 V	196	55.6	4.5
5	11550.00	58.8 PK	74.0	-15.2	2.78 V	103	47.3	11.5
6	11550.00	46.7 AV	54.0	-7.3	2.78 V	103	35.2	11.5

Remarks:

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



RF Mode	802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.2 PK	74.0	-9.8	1.65 H	224	60.5	3.7
2	5150.00	51.5 AV	54.0	-2.5	1.65 H	224	47.8	3.7
3	*5250.00	101.7 PK			1.70 H	214	60.9	40.8
4	*5250.00	89.6 AV			1.70 H	214	48.8	40.8
5	5350.00	63.0 PK	74.0	-11.0	1.75 H	198	60.1	2.9
6	5350.00	50.4 AV	54.0	-3.6	1.75 H	198	47.5	2.9
7	#10500.00	60.9 PK	68.2	-7.3	2.76 H	157	48.4	12.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.8 PK	74.0	-11.2	1.57 V	170	59.1	3.7
2	5150.00	50.2 AV	54.0	-3.8	1.57 V	170	46.5	3.7
3	*5250.00	98.8 PK			1.52 V	188	58.0	40.8
4	*5250.00	86.4 AV			1.52 V	188	45.6	40.8
5	5350.00	61.7 PK	74.0	-12.3	1.56 V	172	58.8	2.9
6	5350.00	48.8 AV	54.0	-5.2	1.56 V	172	45.9	2.9
7	#10500.00	59.7 PK	68.2	-8.5	2.35 V	123	47.2	12.5

Remarks:

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



RF Mode	802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.4 PK	74.0	-9.6	1.53 H	231	61.1	3.3
2	5460.00	51.4 AV	54.0	-2.6	1.53 H	231	48.1	3.3
3	#5470.00	65.1 PK	68.2	-3.1	1.68 H	211	61.8	3.3
4	*5570.00	101.7 PK			1.59 H	233	60.3	41.4
5	*5570.00	89.7 AV			1.59 H	233	48.3	41.4
6	11140.00	60.5 PK	74.0	-13.5	2.65 H	178	48.7	11.8
7	11140.00	48.3 AV	54.0	-5.7	2.65 H	178	36.5	11.8

Antenna Polarity & Test Distance : Vertical at 3 m

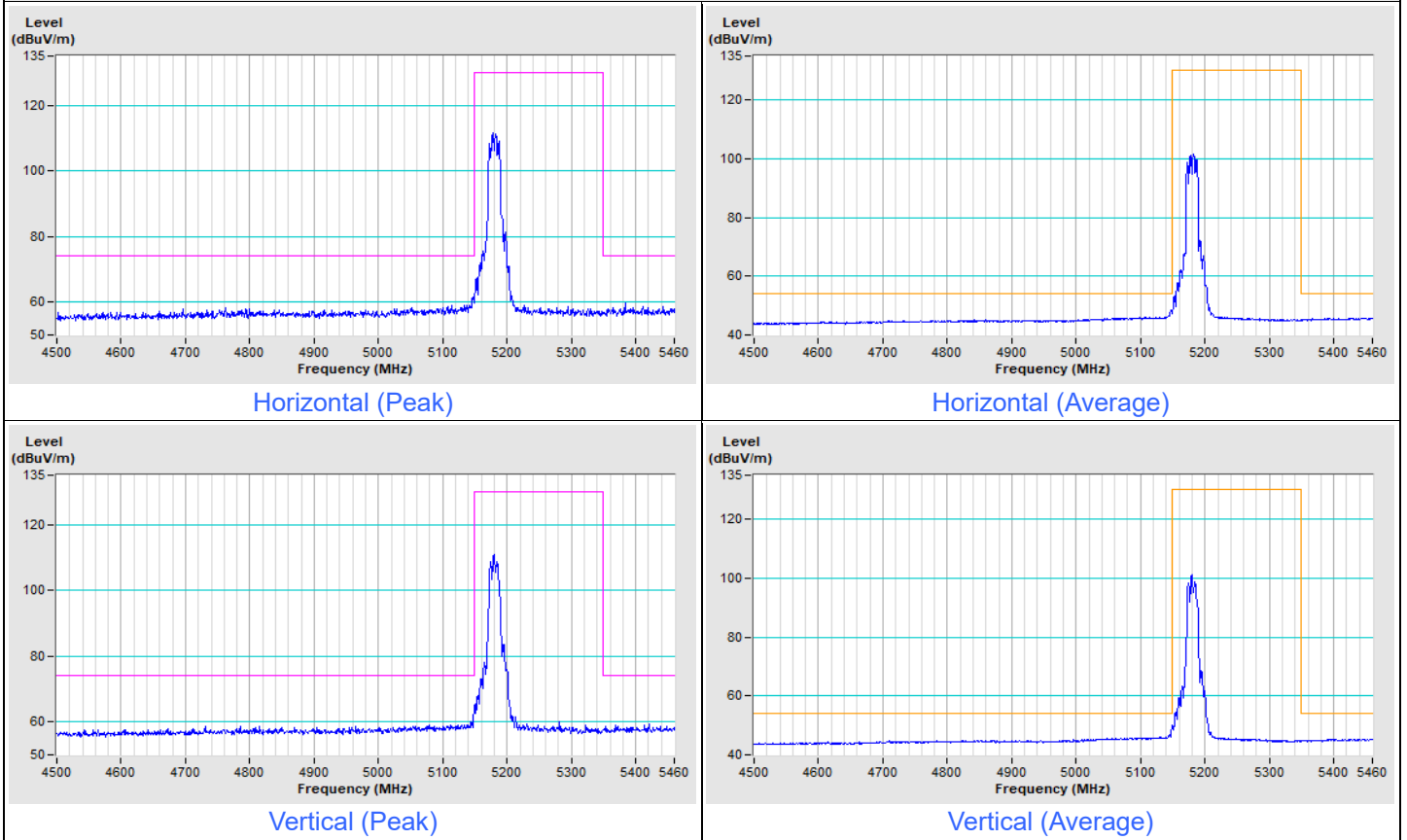
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.1 PK	74.0	-10.9	1.27 V	286	59.8	3.3
2	5460.00	50.2 AV	54.0	-3.8	1.27 V	286	46.9	3.3
3	#5470.00	63.7 PK	68.2	-4.5	1.25 V	276	60.4	3.3
4	*5570.00	101.1 PK			1.38 V	360	59.7	41.4
5	*5570.00	88.6 AV			1.38 V	360	47.2	41.4
6	11140.00	59.2 PK	74.0	-14.8	2.04 V	186	47.4	11.8
7	11140.00	47.1 AV	54.0	-6.9	2.04 V	186	35.3	11.8

Remarks:

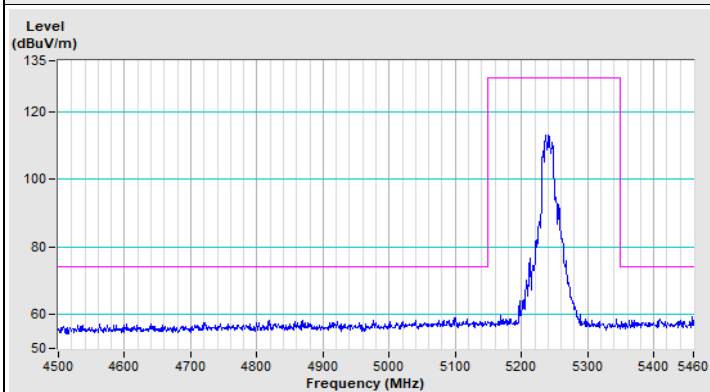
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency,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

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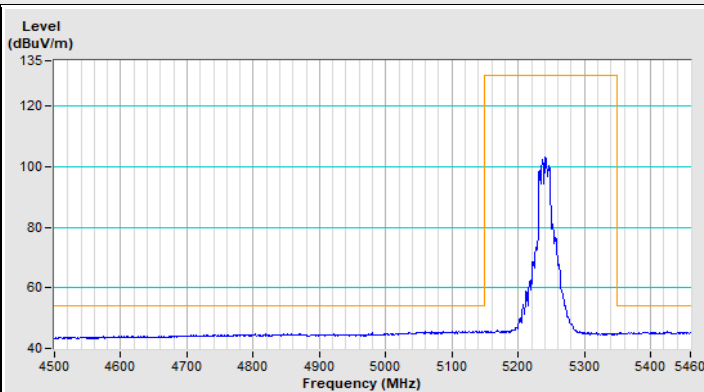
802.11a Channel 36



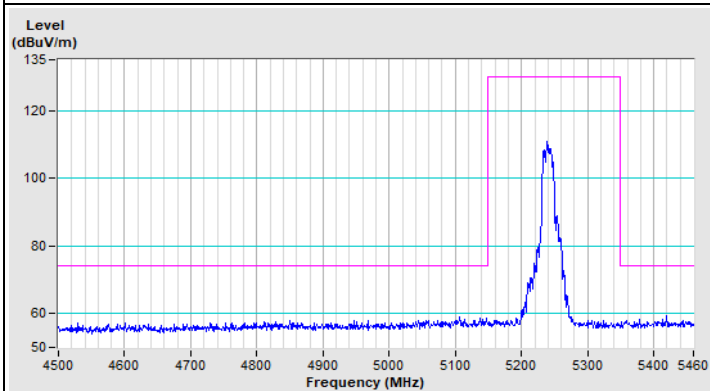
802.11a Channel 48



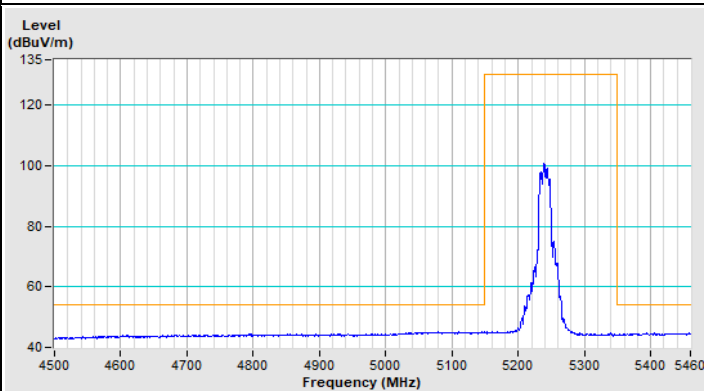
Horizontal (Peak)



Horizontal (Average)

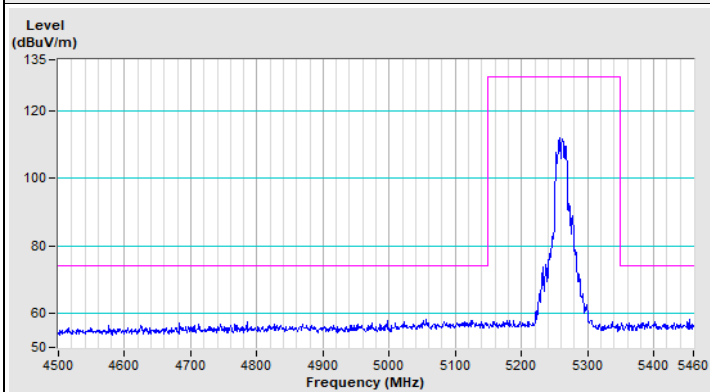


Vertical (Peak)

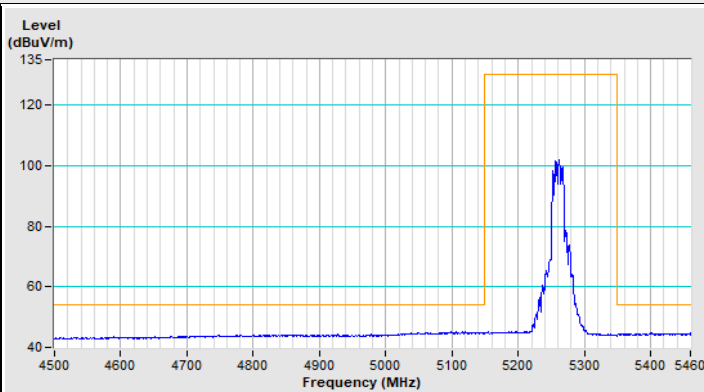


Vertical (Average)

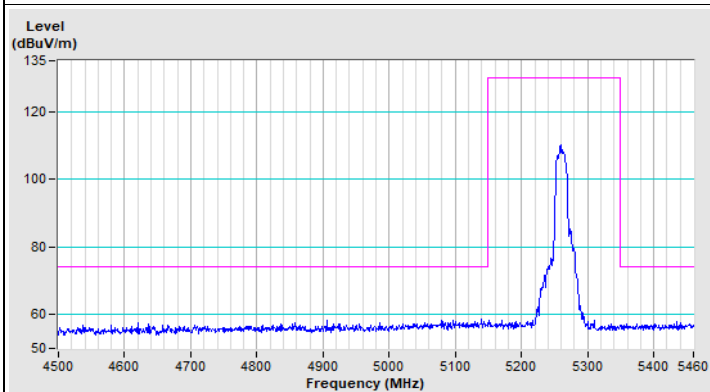
802.11a Channel 52



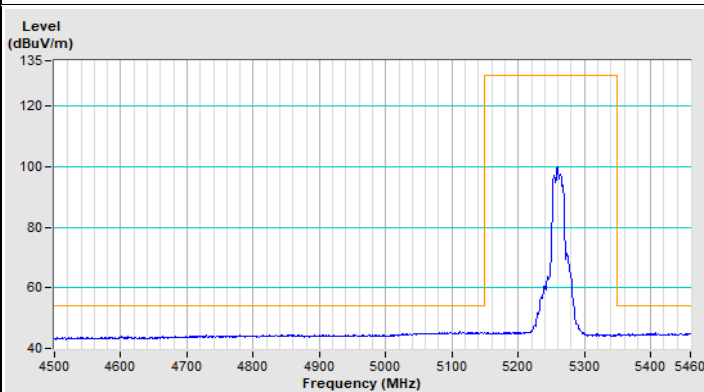
Horizontal (Peak)



Horizontal (Average)

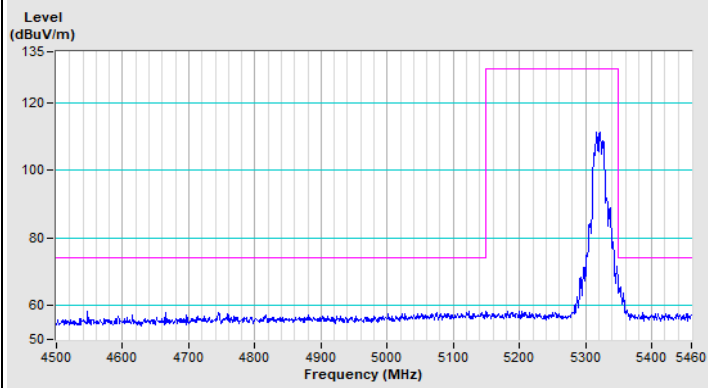


Vertical (Peak)

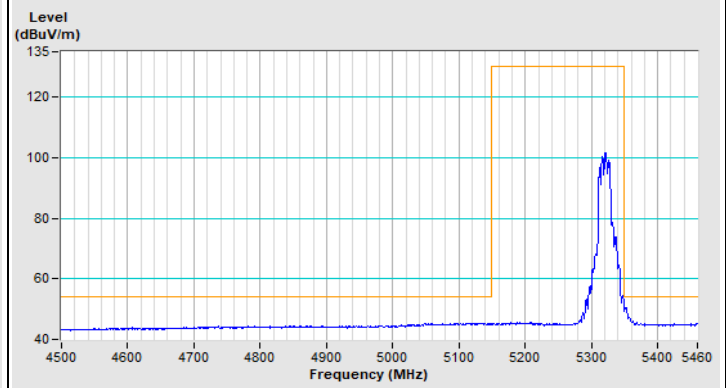


Vertical (Average)

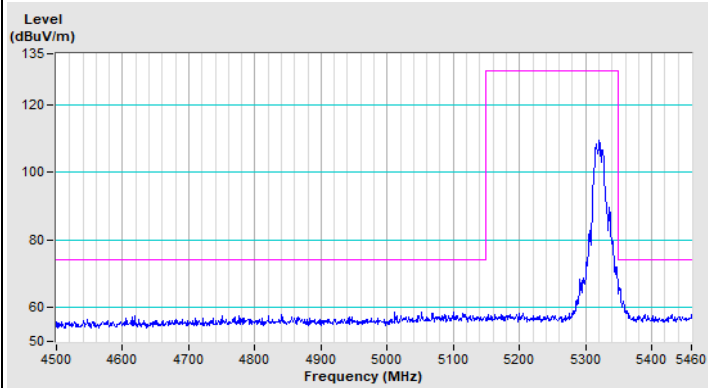
802.11a Channel 64



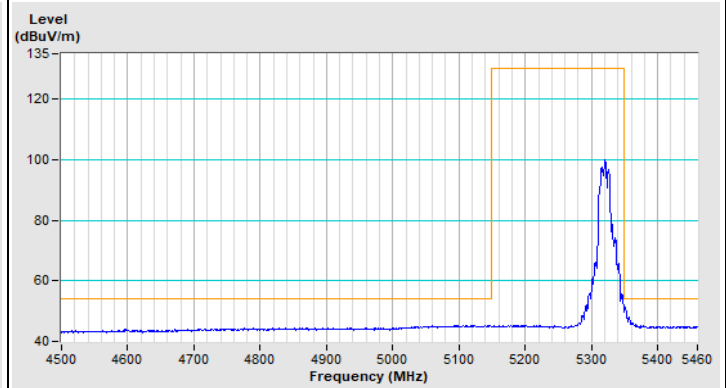
Horizontal (Peak)



Horizontal (Average)



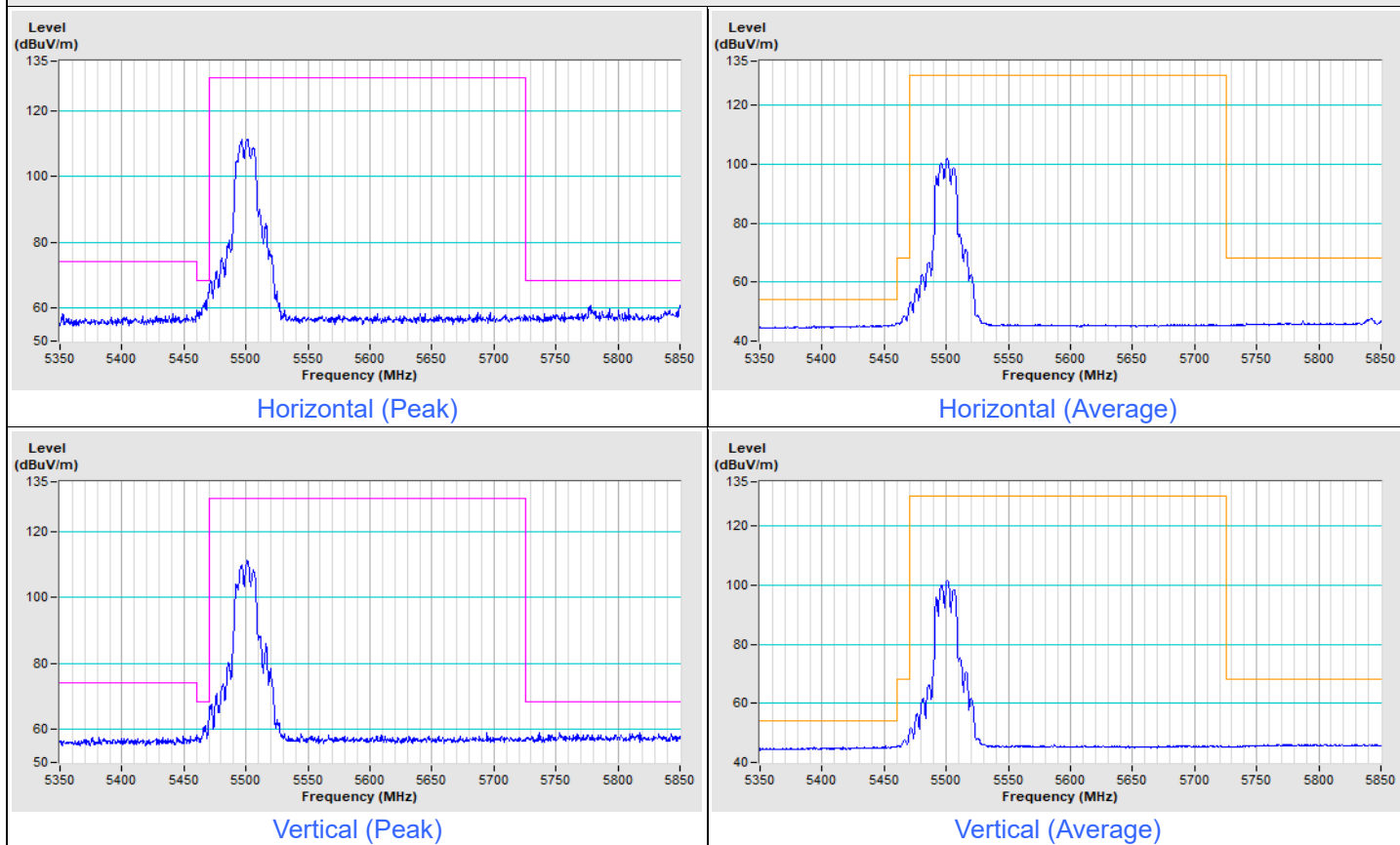
Vertical (Peak)



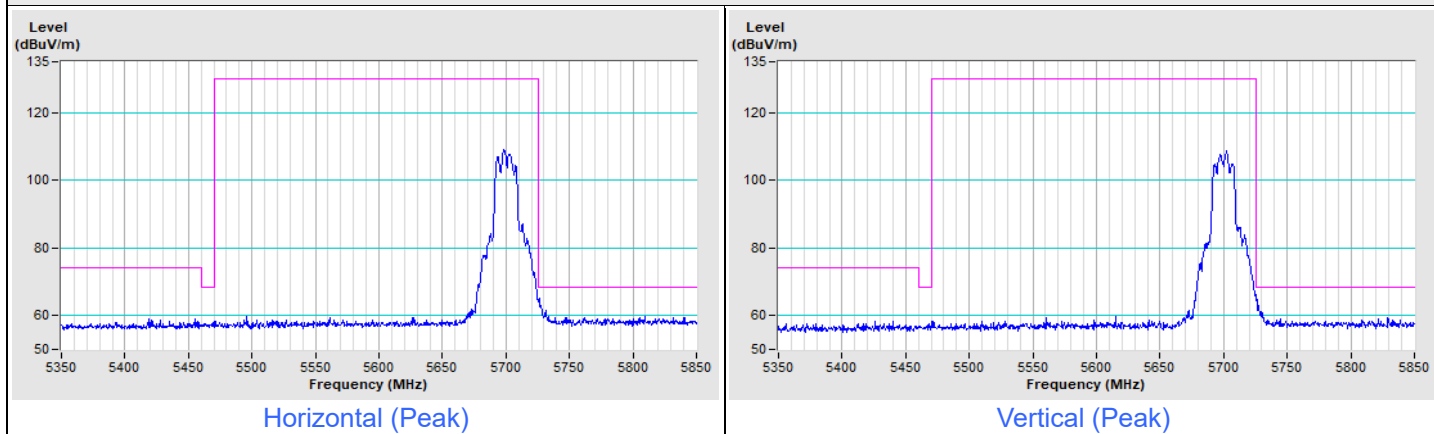
Vertical (Average)

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

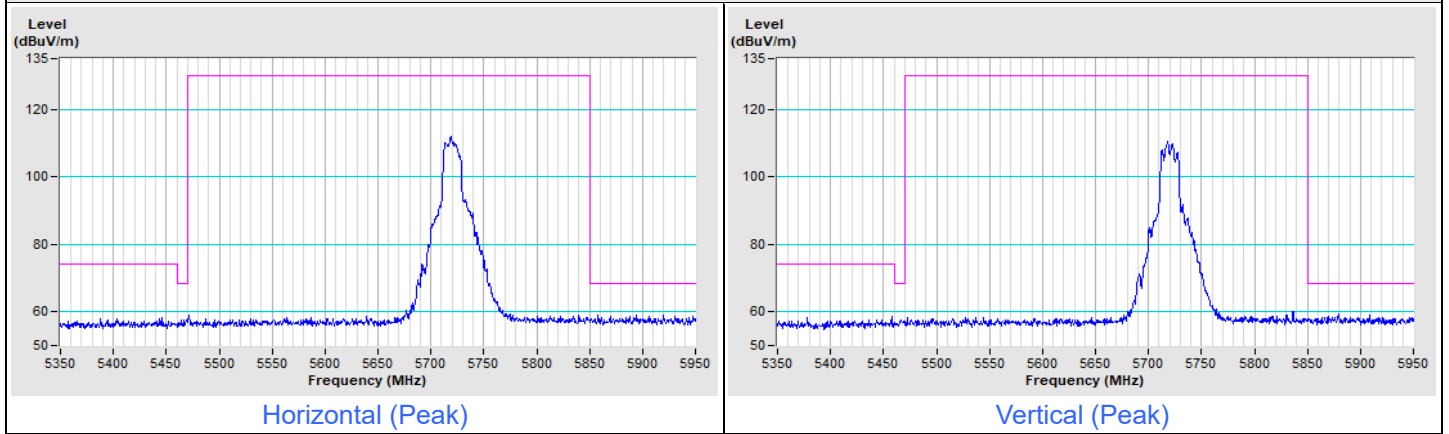


802.11a Channel 140



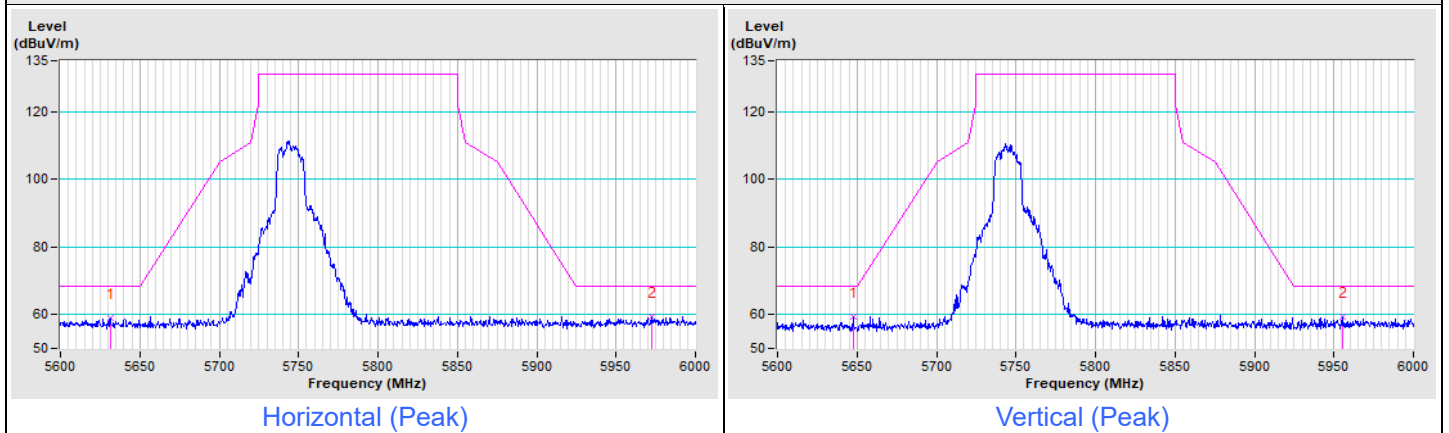
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11a Channel 144

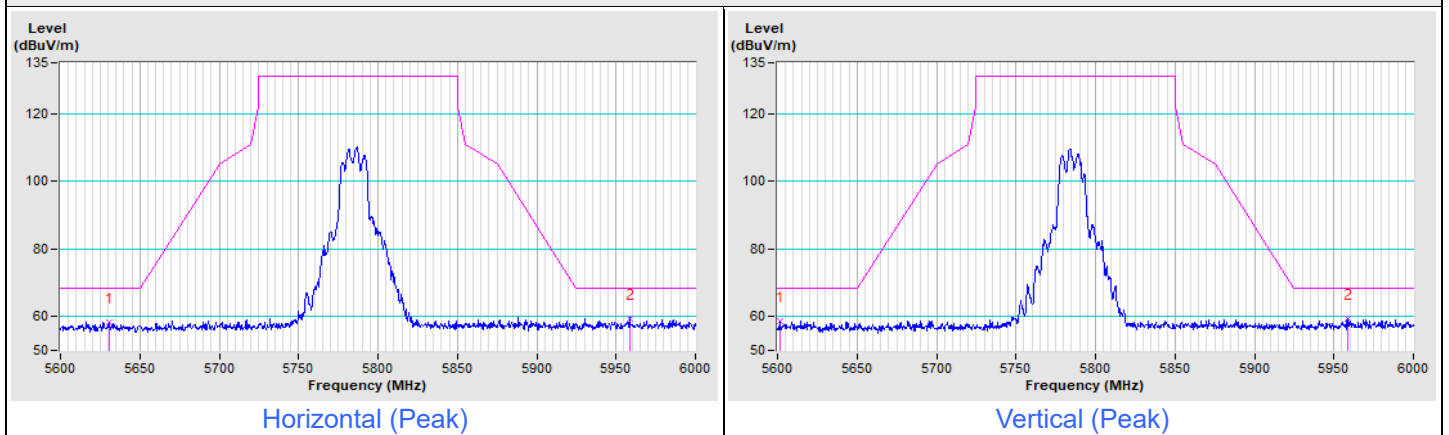


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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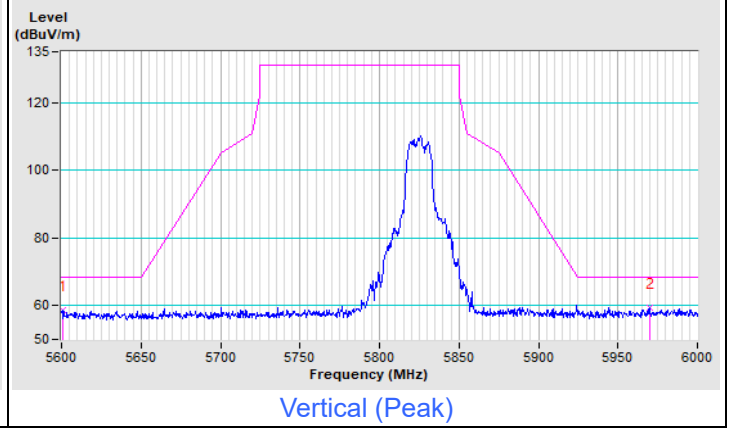
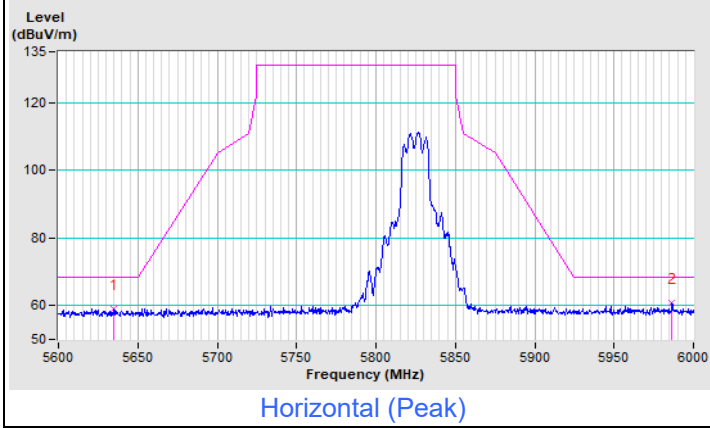
802.11a Channel 149



802.11a Channel 157

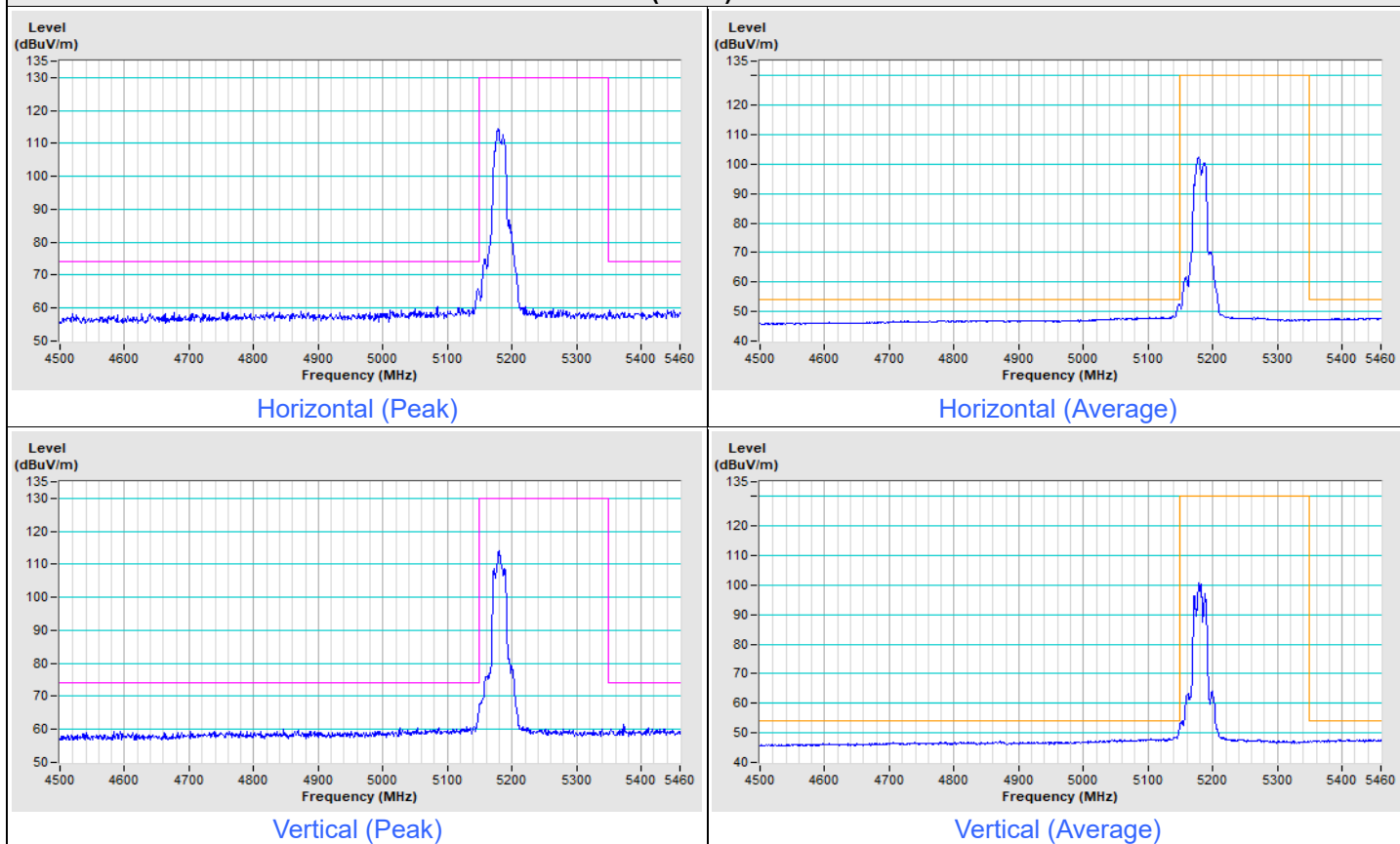


802.11a Channel 165

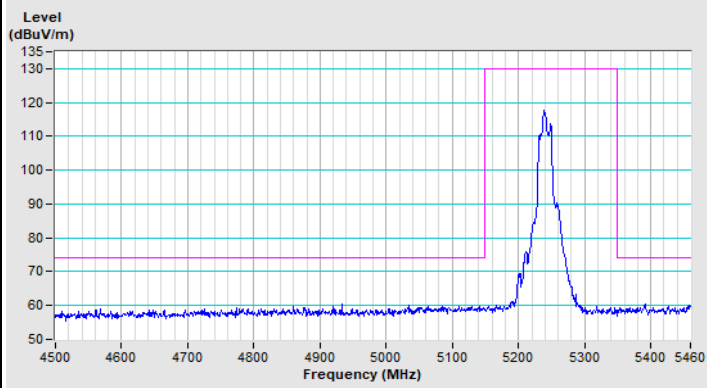


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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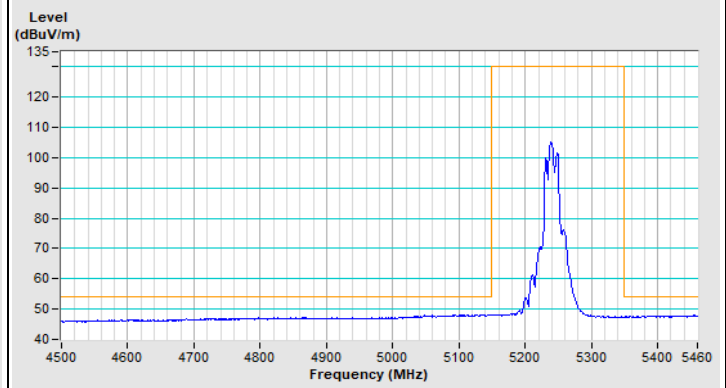
802.11ax (HE20) Channel 36



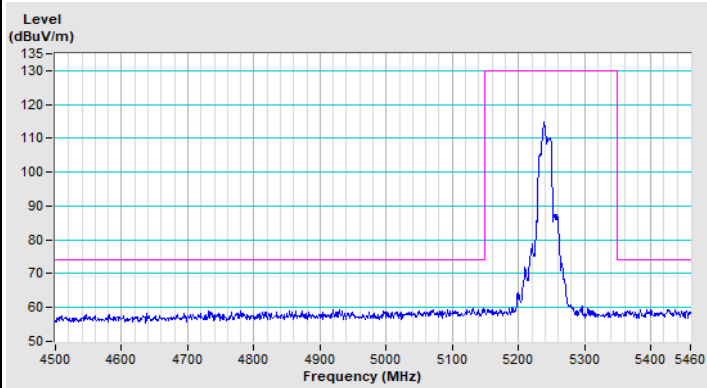
802.11ax (HE20) Channel 48



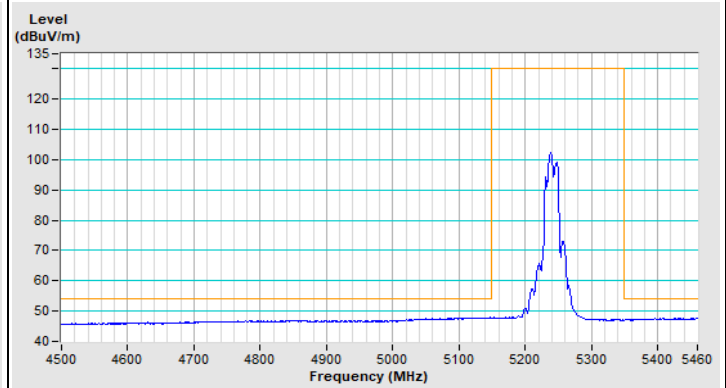
Horizontal (Peak)



Horizontal (Average)

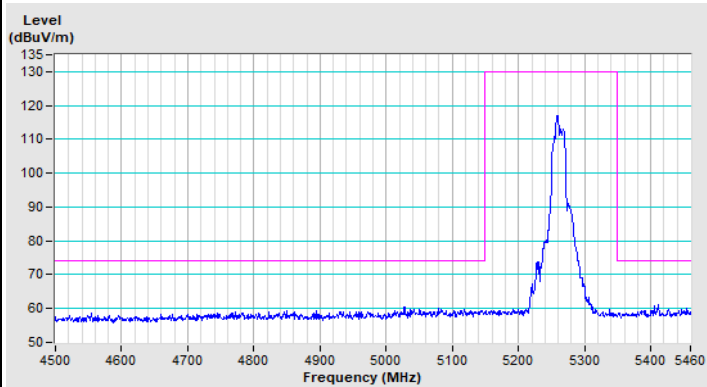


Vertical (Peak)

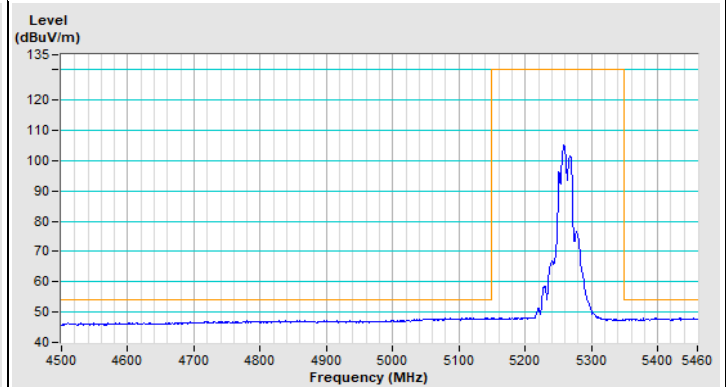


Vertical (Average)

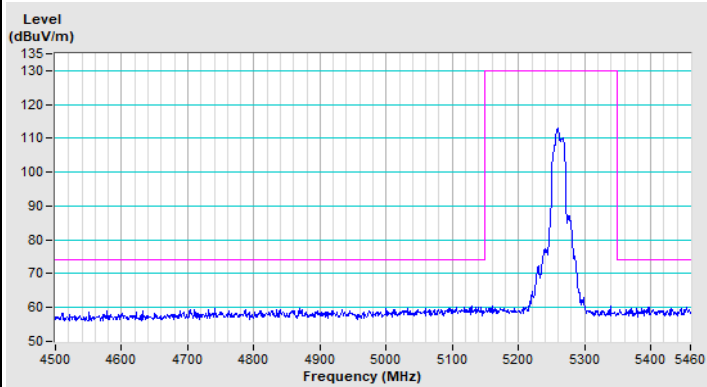
802.11ax (HE20) Channel 52



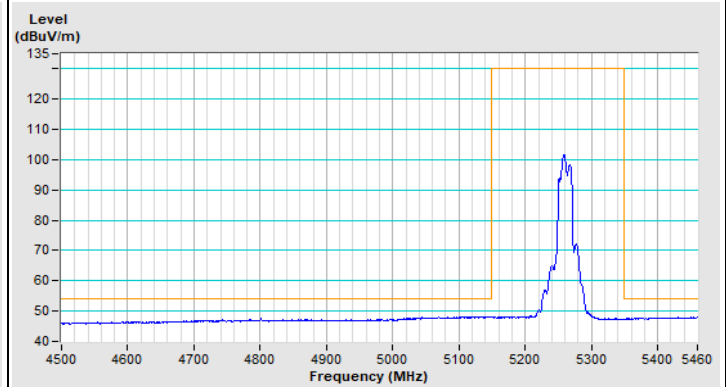
Horizontal (Peak)



Horizontal (Average)

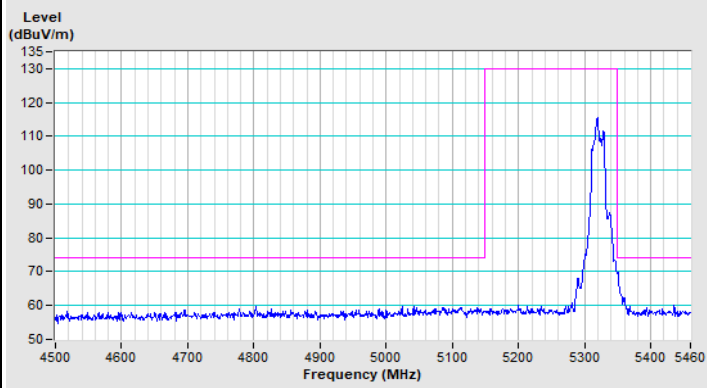


Vertical (Peak)

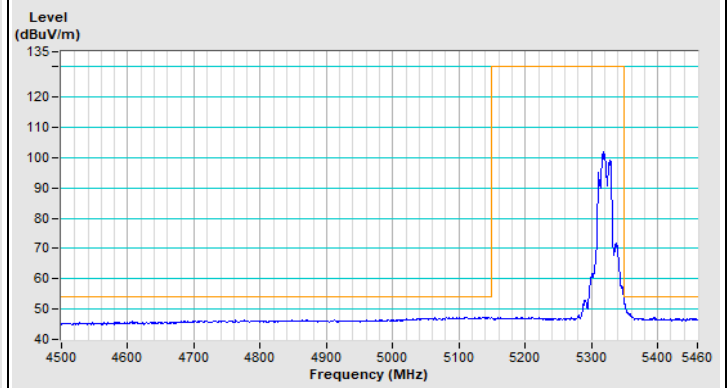


Vertical (Average)

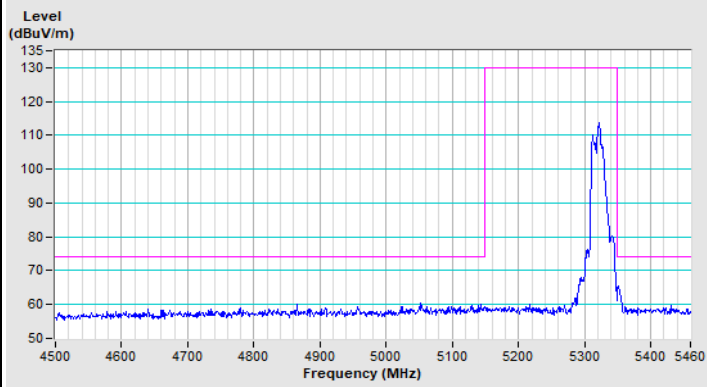
802.11ax (HE20) Channel 64



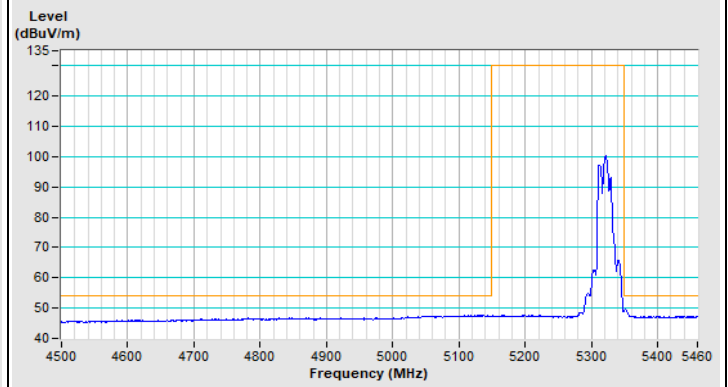
Horizontal (Peak)



Horizontal (Average)



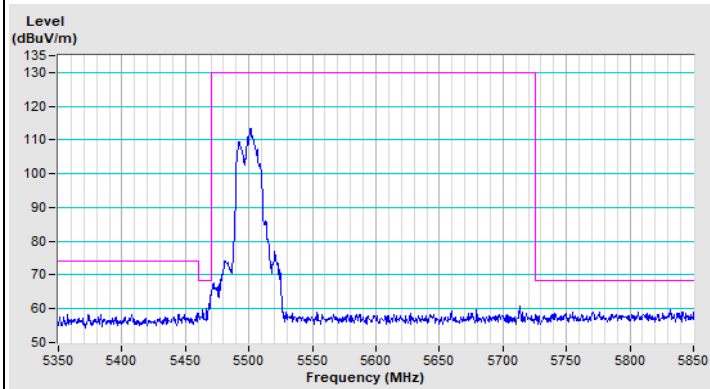
Vertical (Peak)



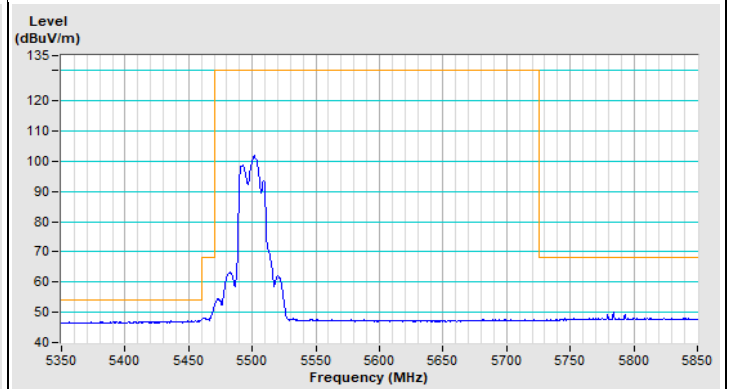
Vertical (Average)

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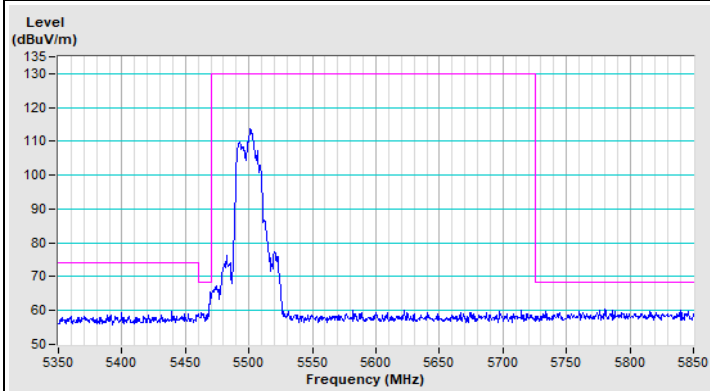
802.11ax (HE20) Channel 100



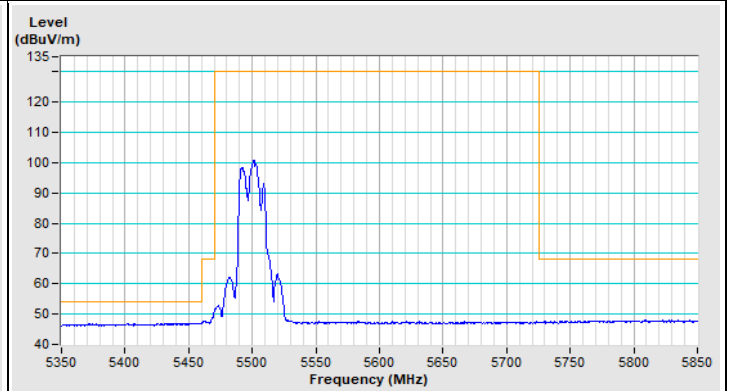
Horizontal (Peak)



Horizontal (Average)

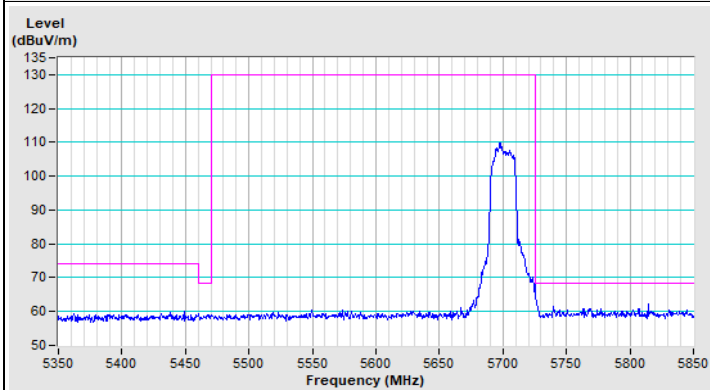


Vertical (Peak)

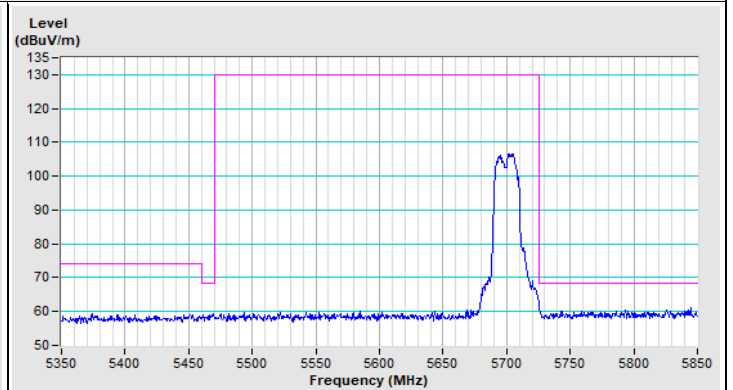


Vertical (Average)

802.11ax (HE20) Channel 140



Horizontal (Peak)

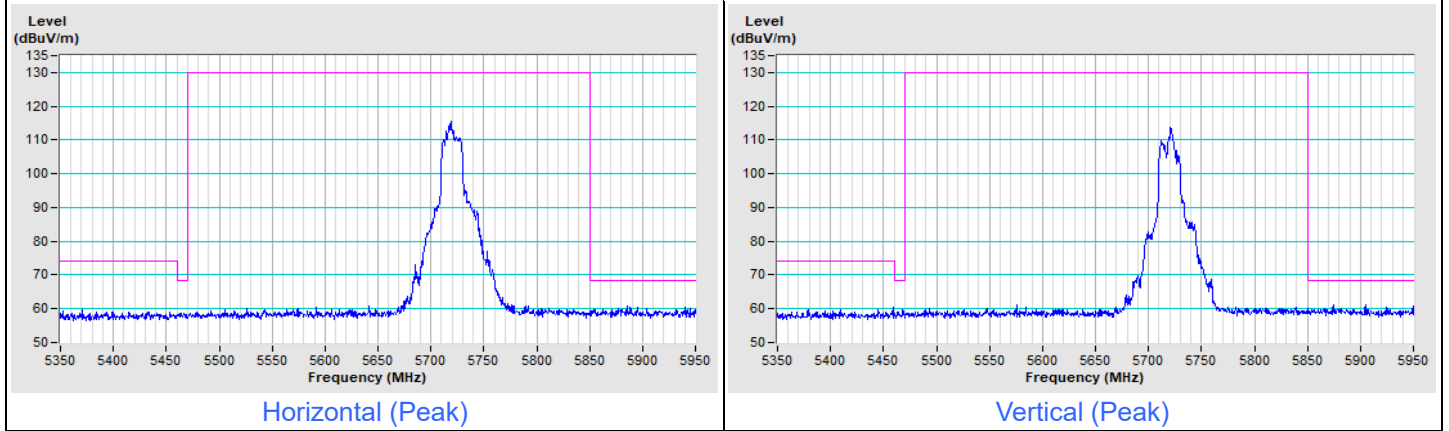


Vertical (Peak)



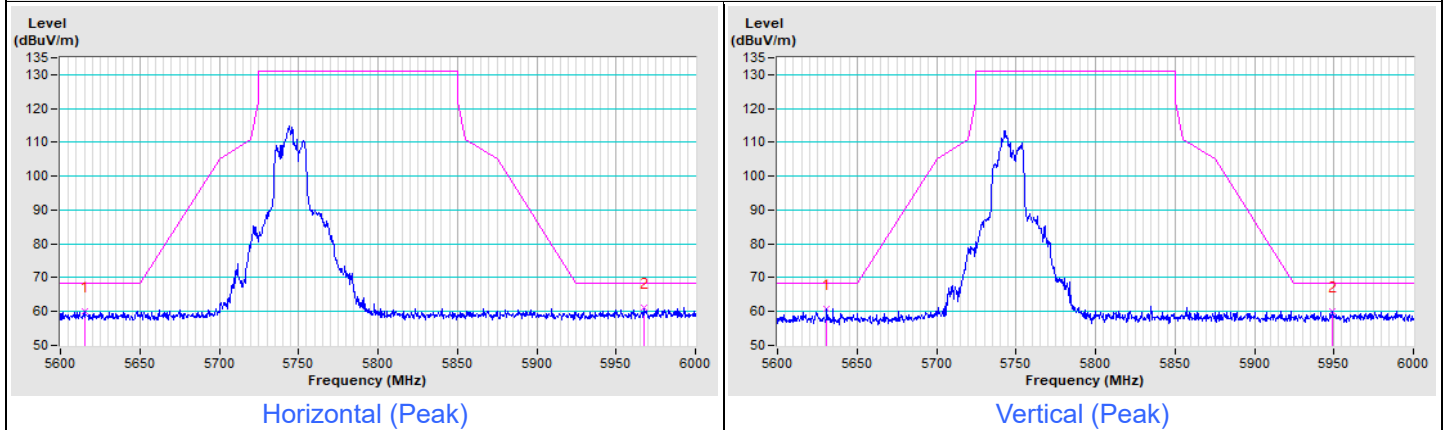
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE20) Channel 144

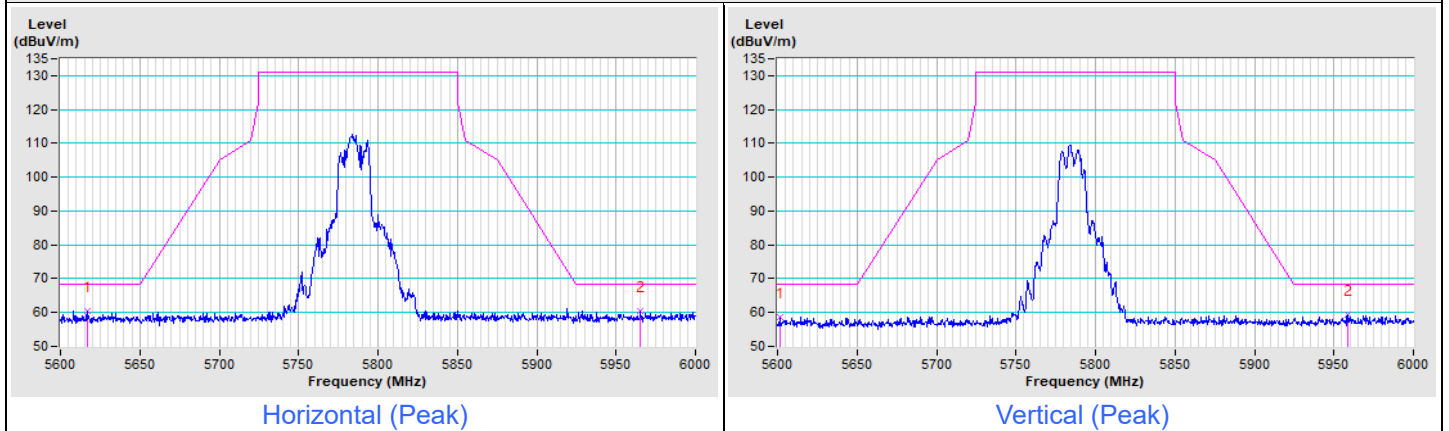


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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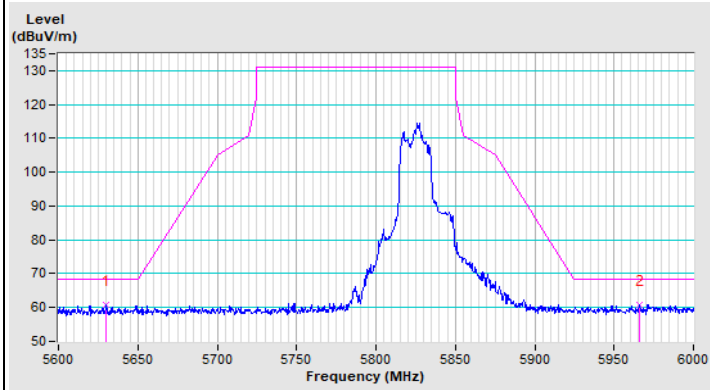
802.11ax (HE20) Channel 149



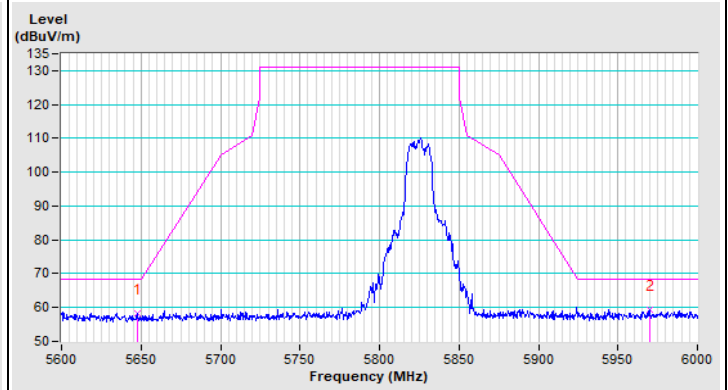
802.11ax (HE20) Channel 157



802.11ax (HE20) Channel 165



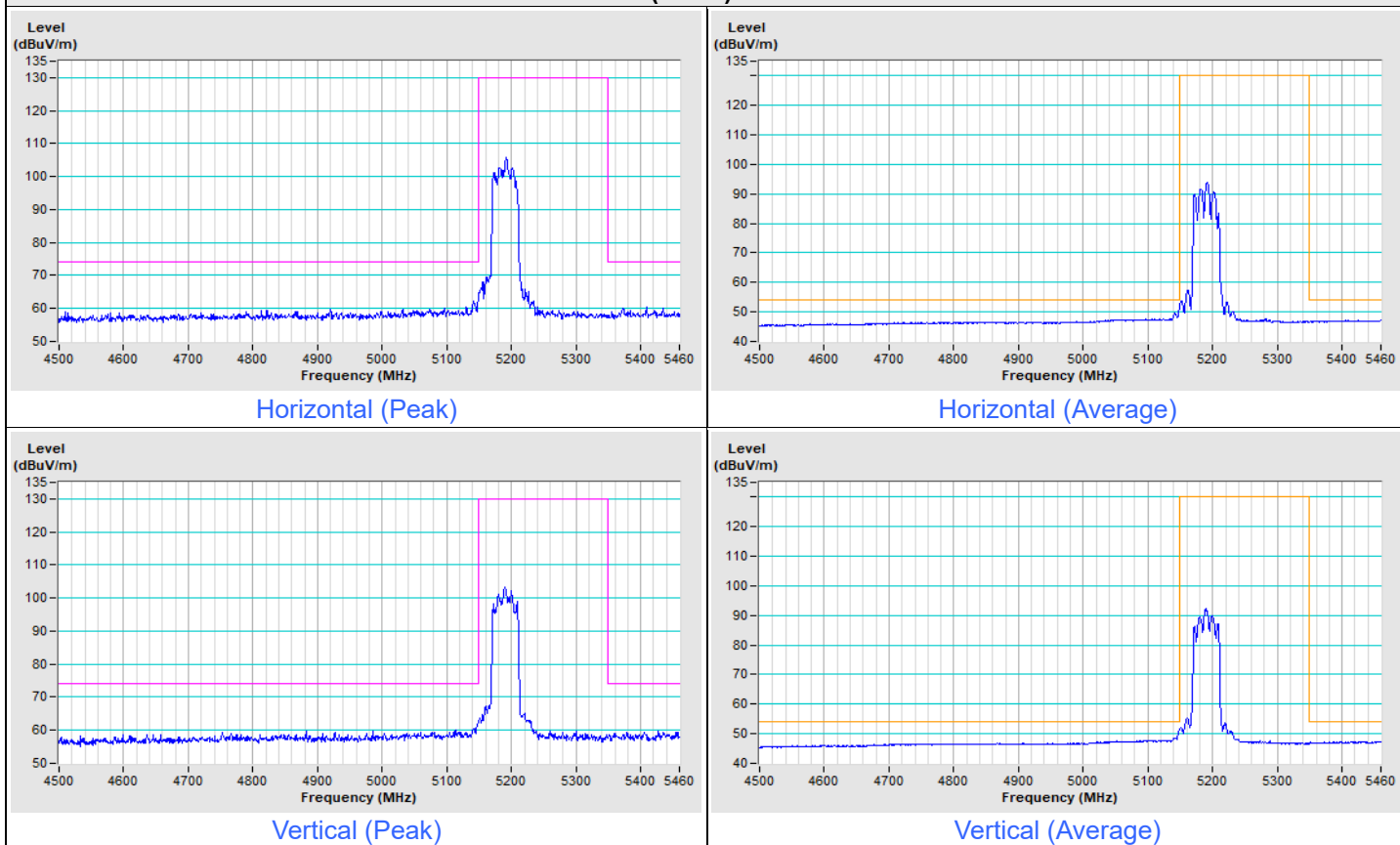
Horizontal (Peak)



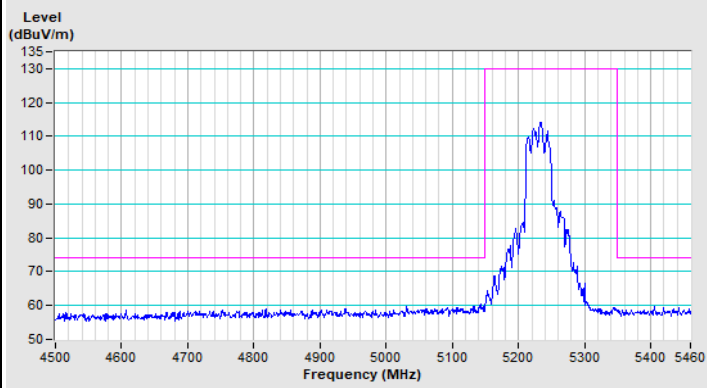
Vertical (Peak)

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=2 kHz, DET=Peak
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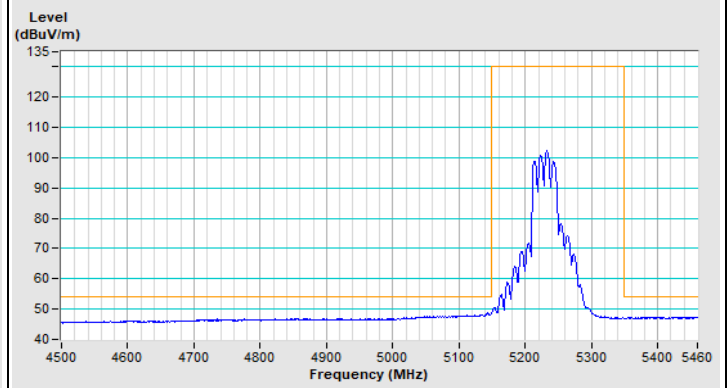
802.11ax (HE40) Channel 38



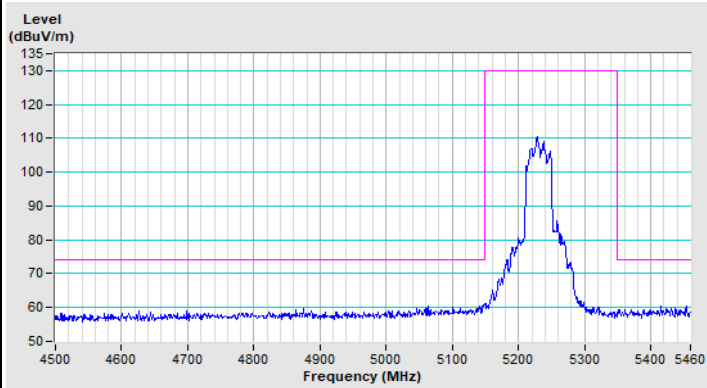
802.11ax (HE40) Channel 46



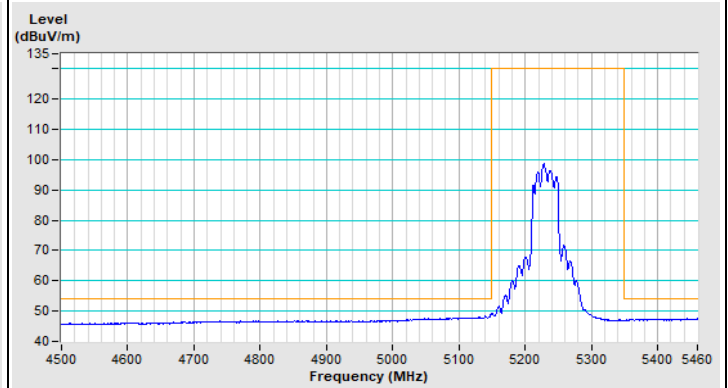
Horizontal (Peak)



Horizontal (Average)

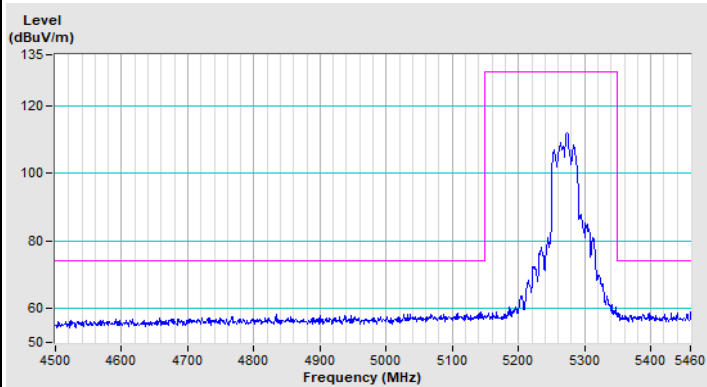


Vertical (Peak)

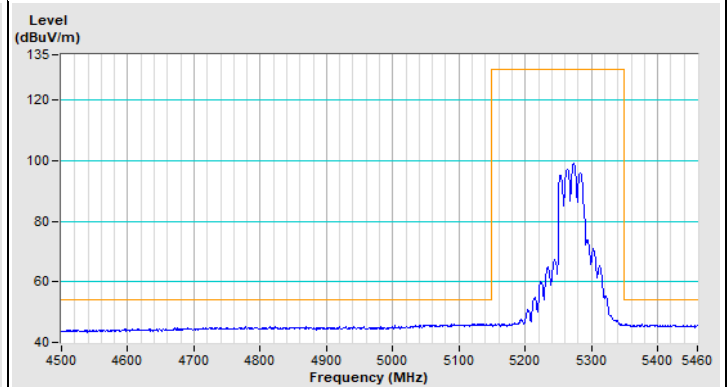


Vertical (Average)

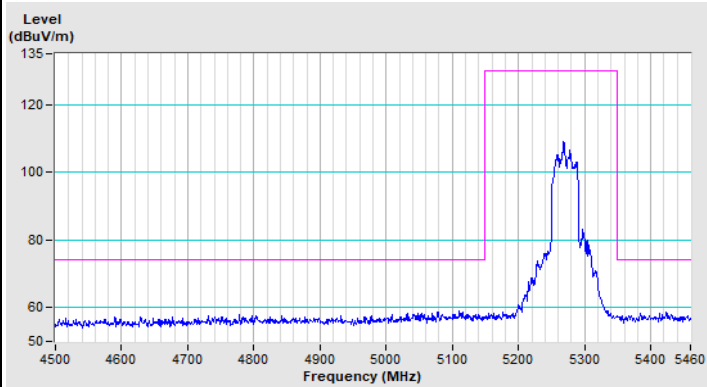
802.11ax (HE40) Channel 54



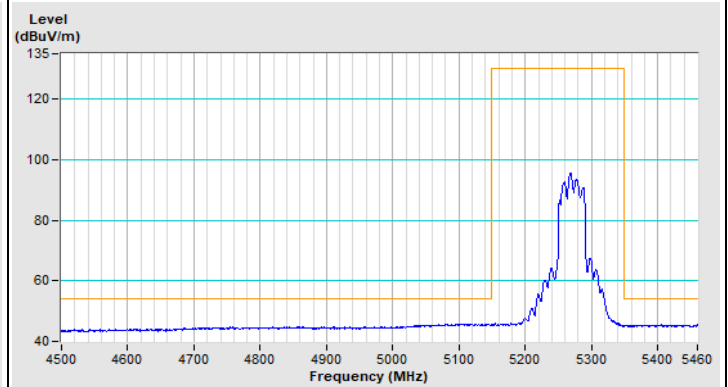
Horizontal (Peak)



Horizontal (Average)

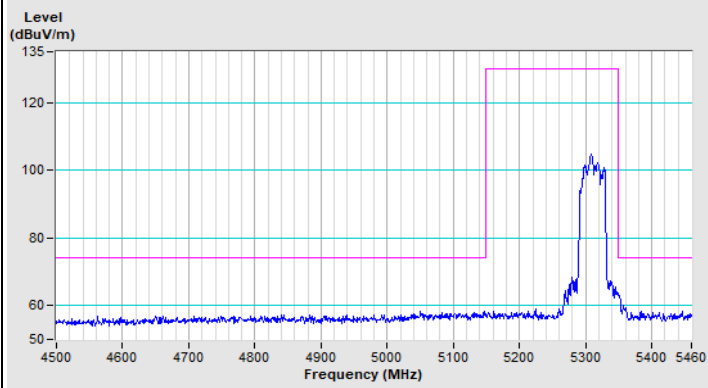


Vertical (Peak)

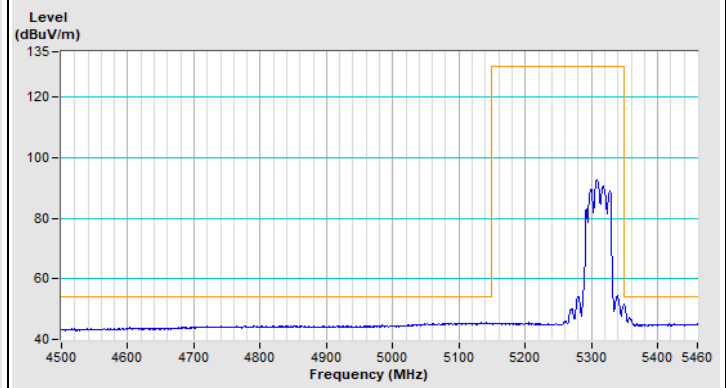


Vertical (Average)

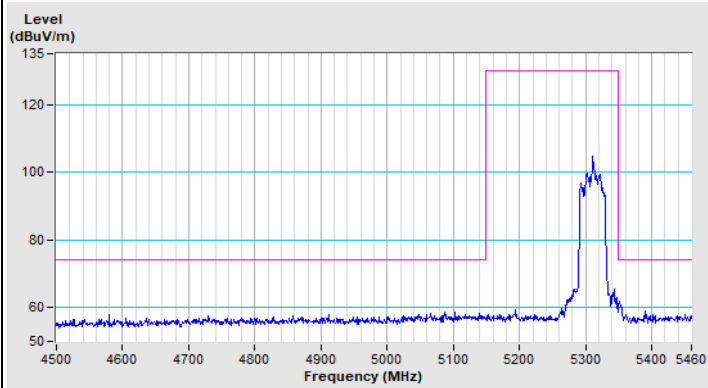
802.11ax (HE40) Channel 62



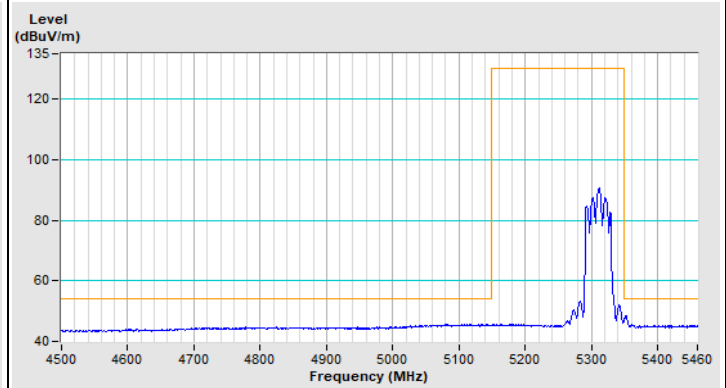
Horizontal (Peak)



Horizontal (Average)



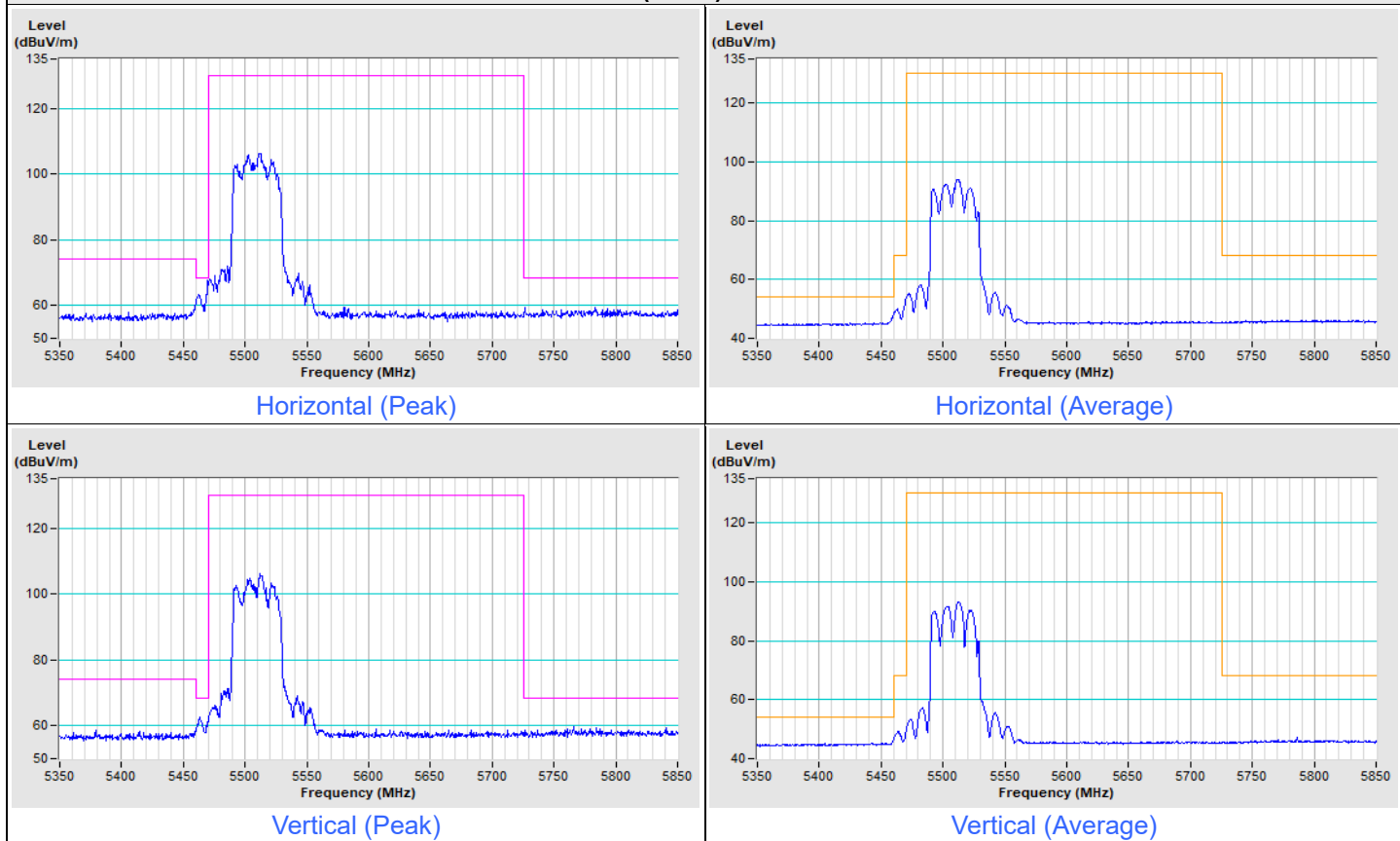
Vertical (Peak)



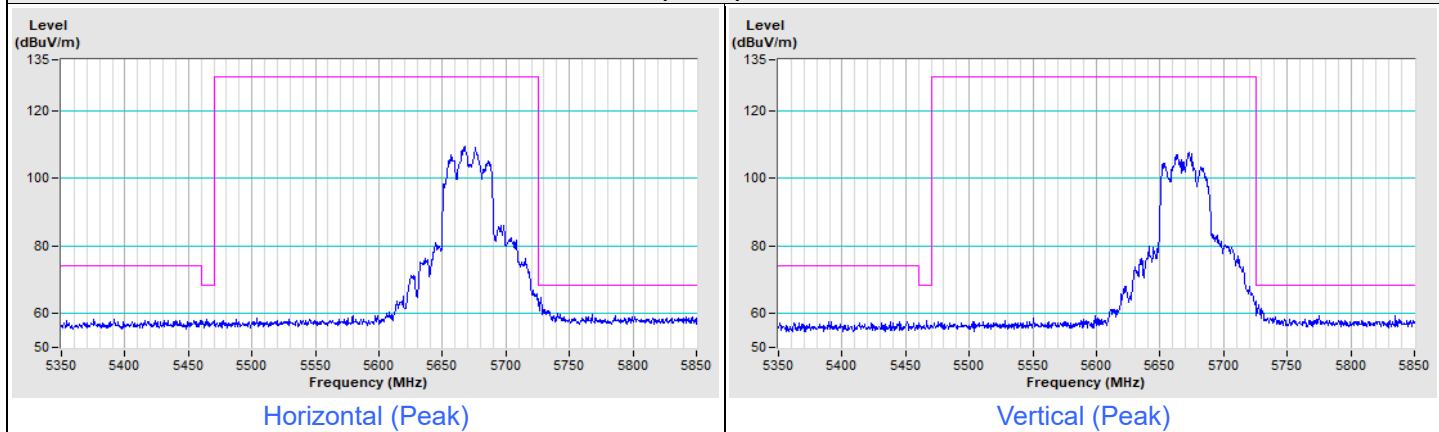
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
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802.11ax (HE40) Channel 102



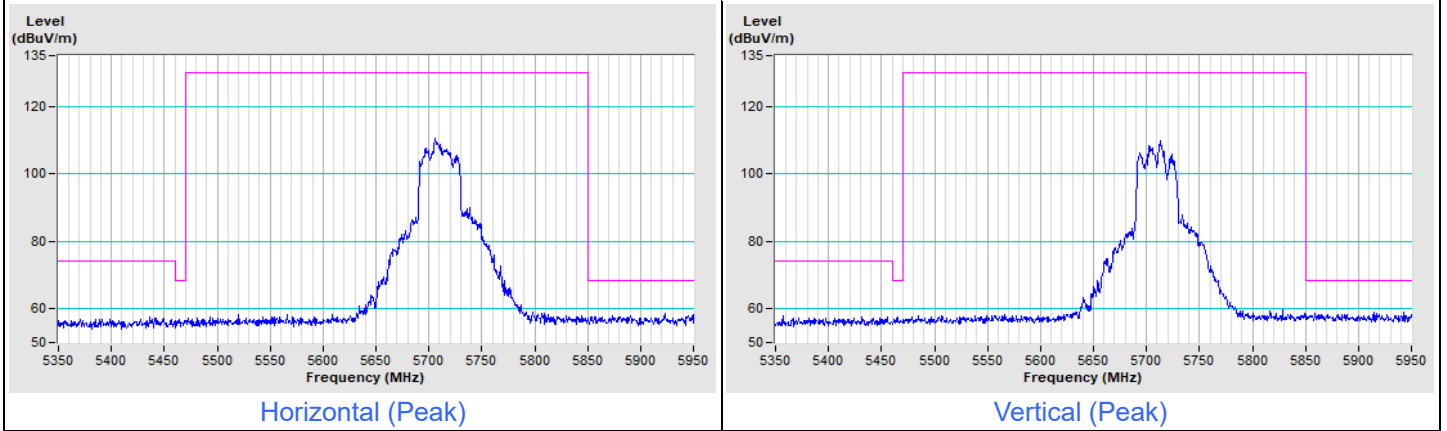
802.11ax (HE40) Channel 134





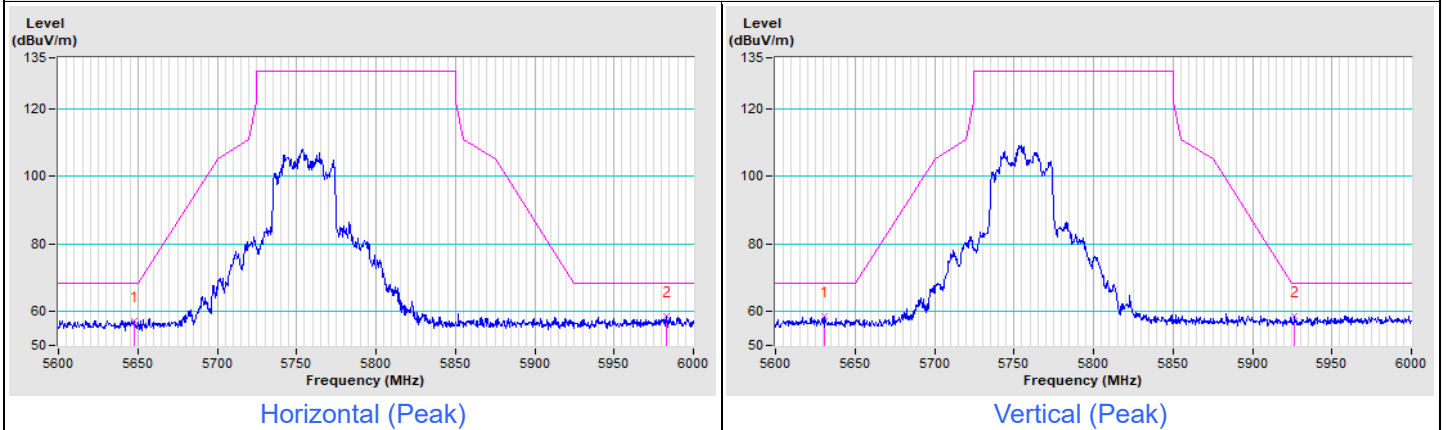
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE40) Channel 142

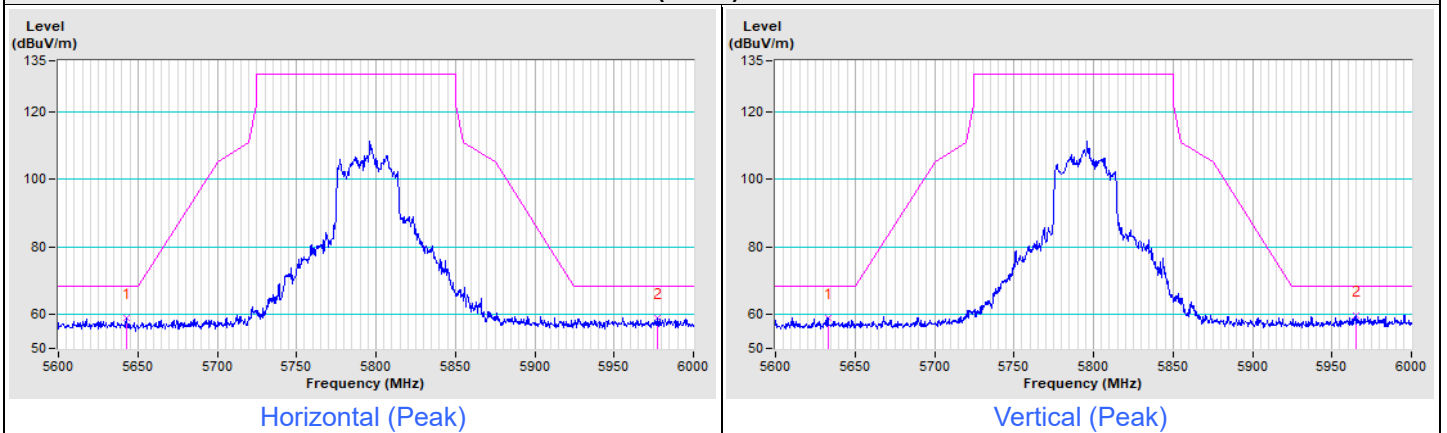


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE40) Channel 151

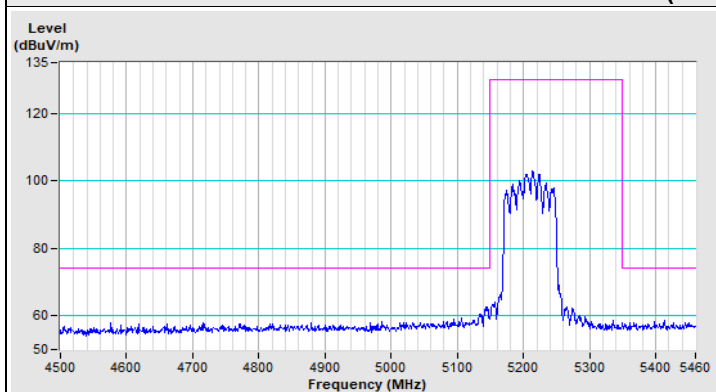


802.11ax (HE40) Channel 159

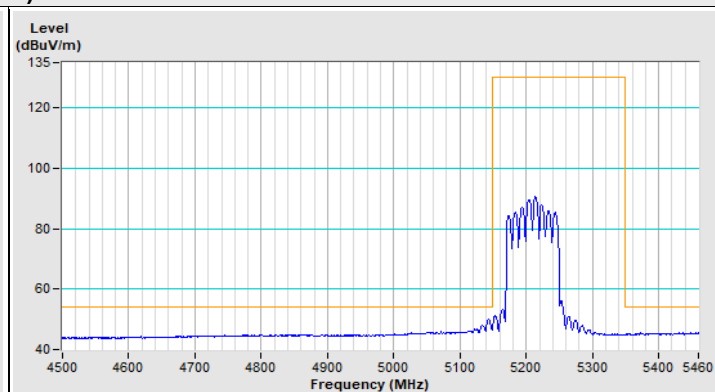


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
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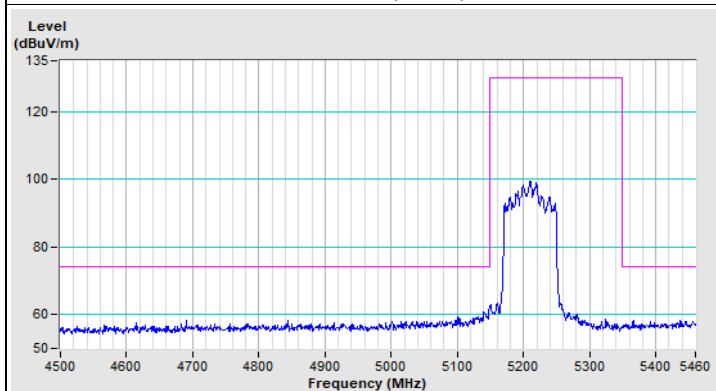
802.11ax (HE80) Channel 42



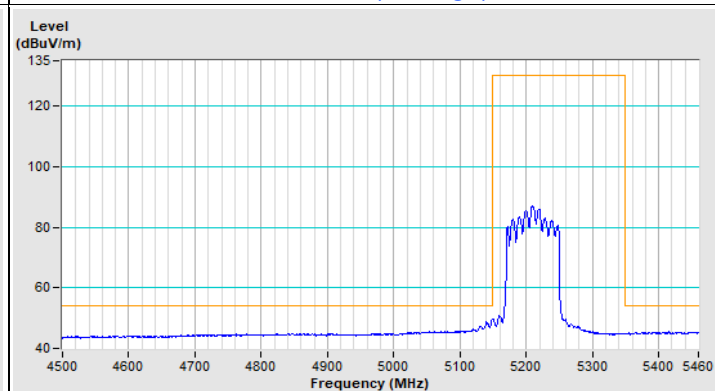
Horizontal (Peak)



Horizontal (Average)

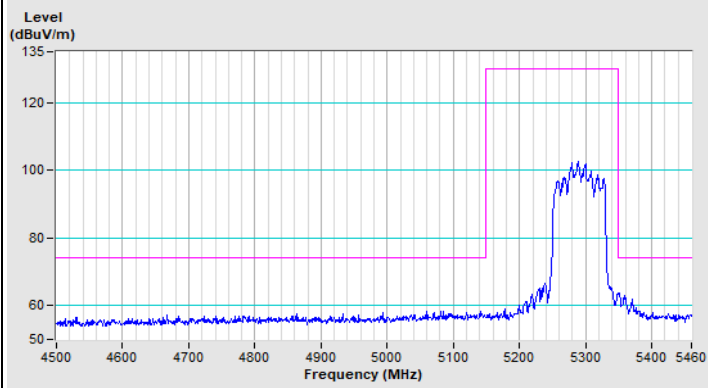


Vertical (Peak)

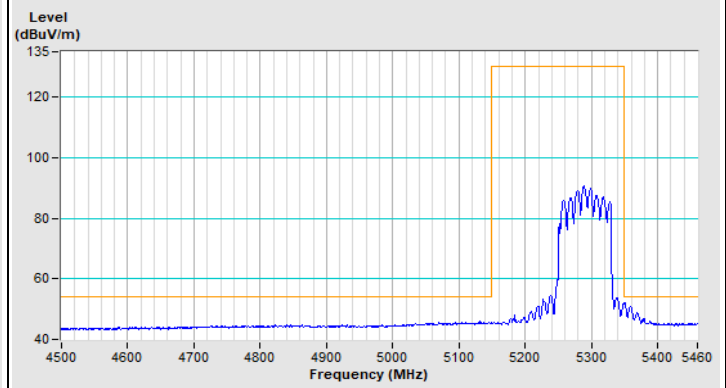


Vertical (Average)

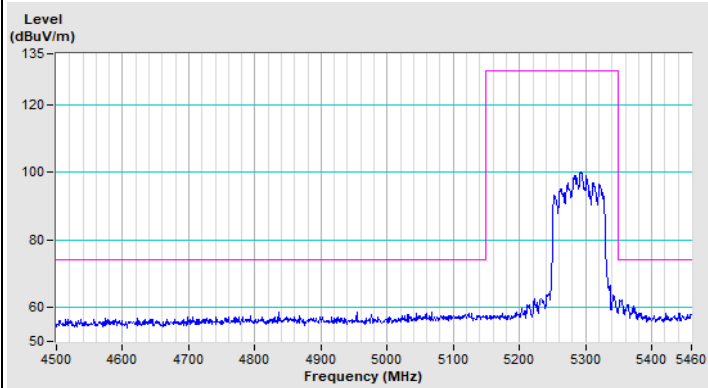
802.11ax (HE80) Channel 58



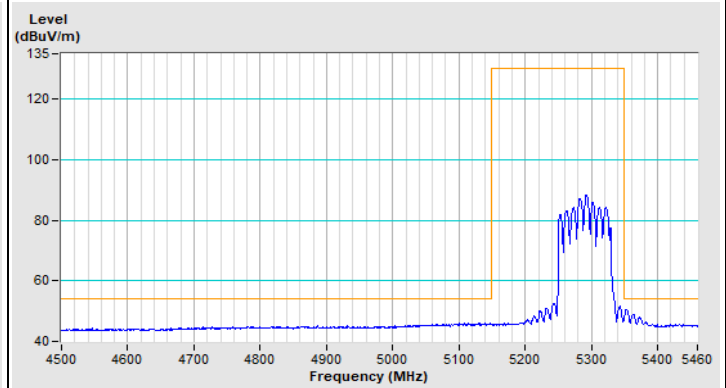
Horizontal (Peak)



Horizontal (Average)



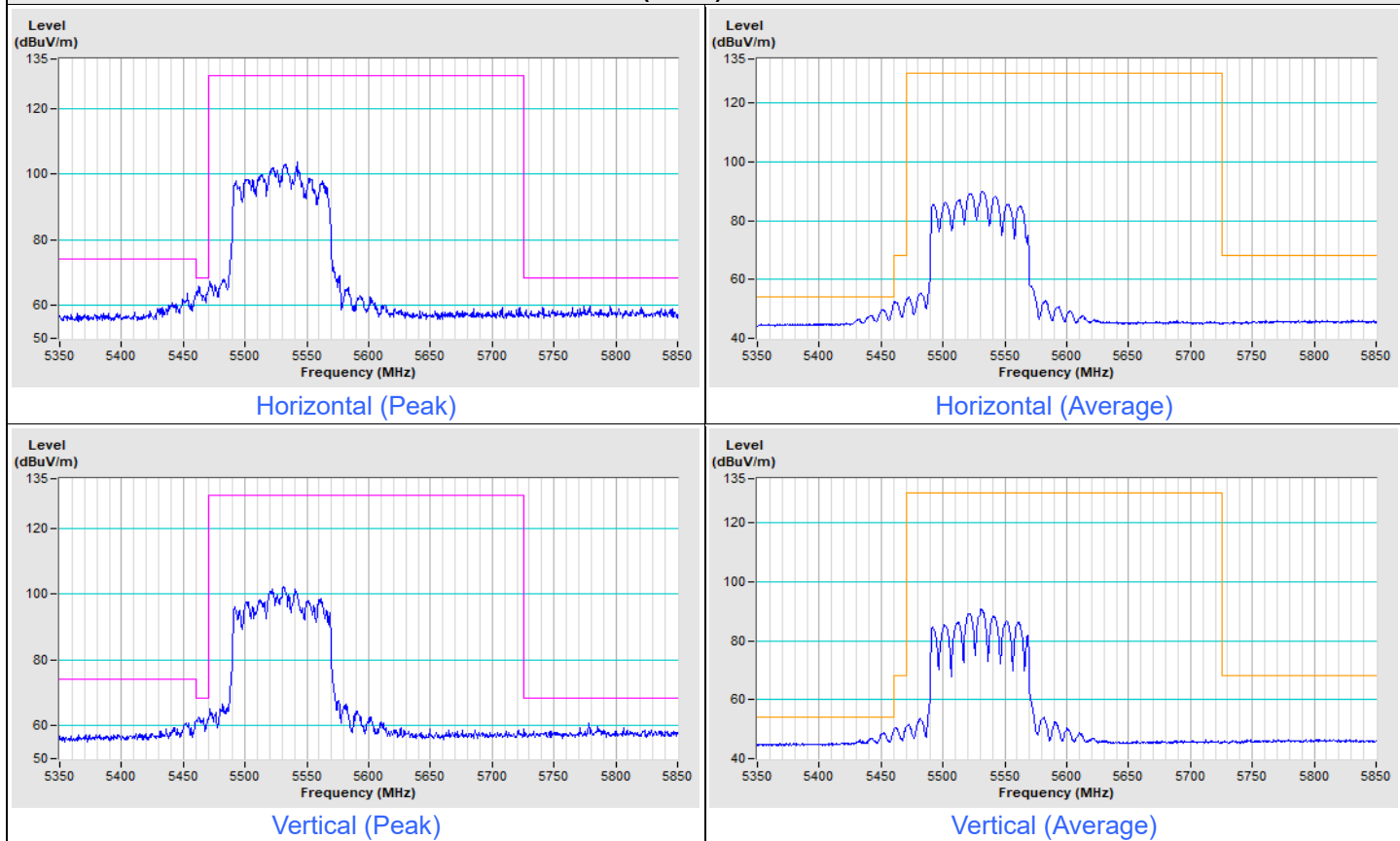
Vertical (Peak)



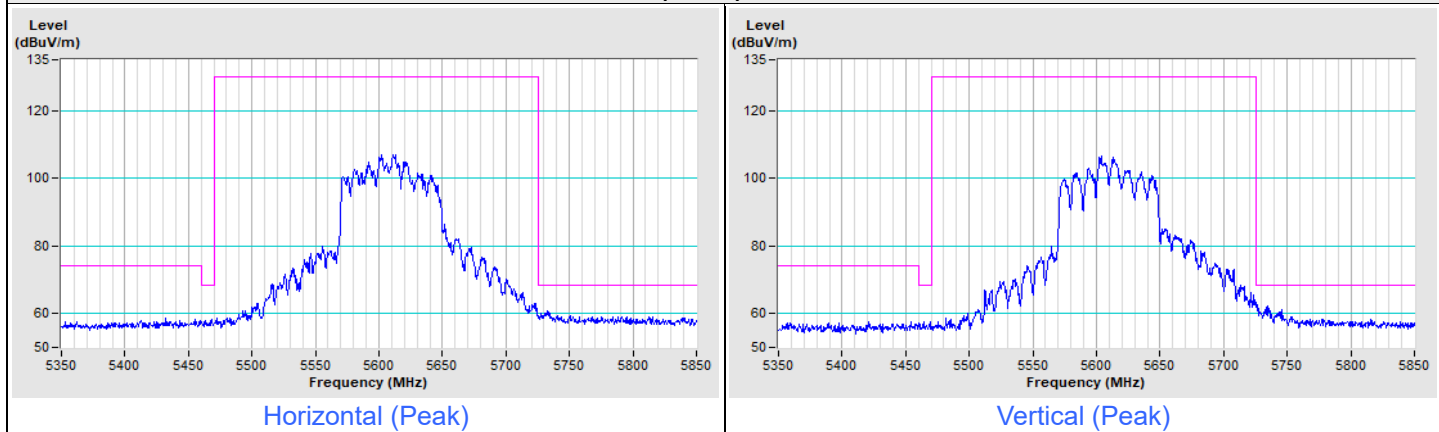
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
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802.11ax (HE80) Channel 106



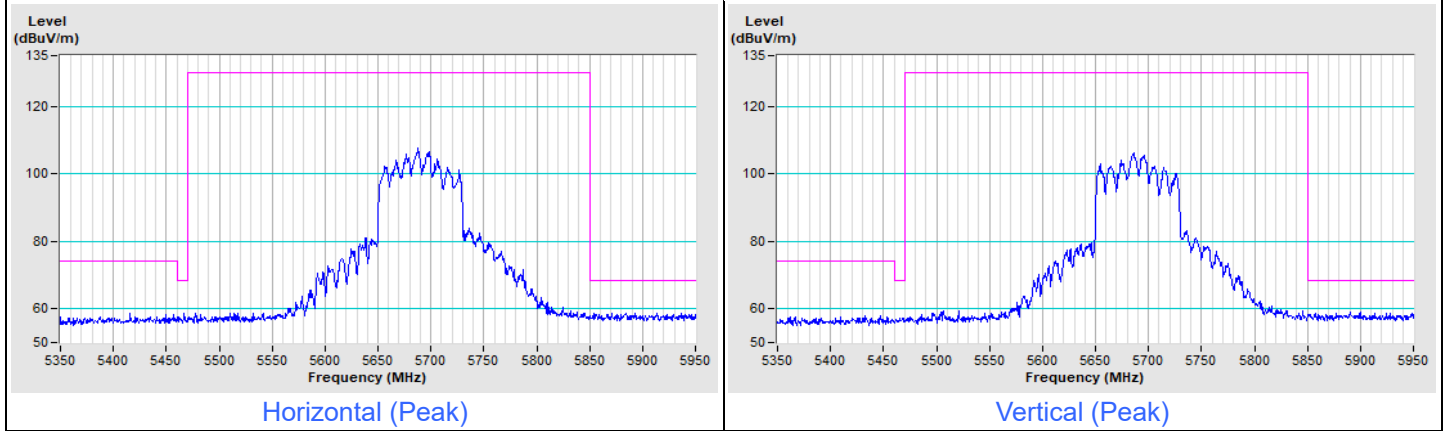
802.11ax (HE80) Channel 122





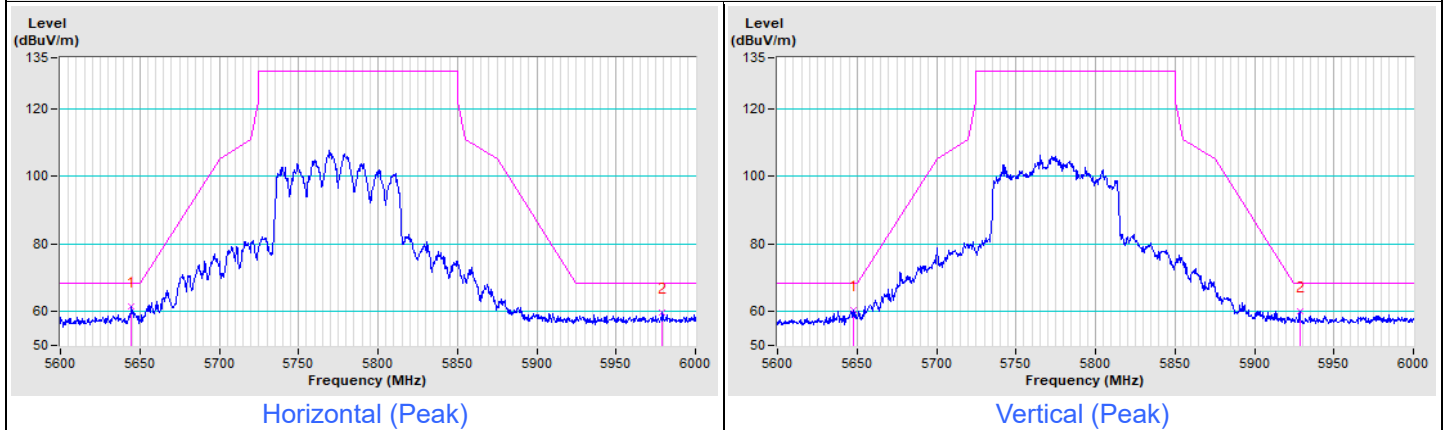
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE80) Channel 138



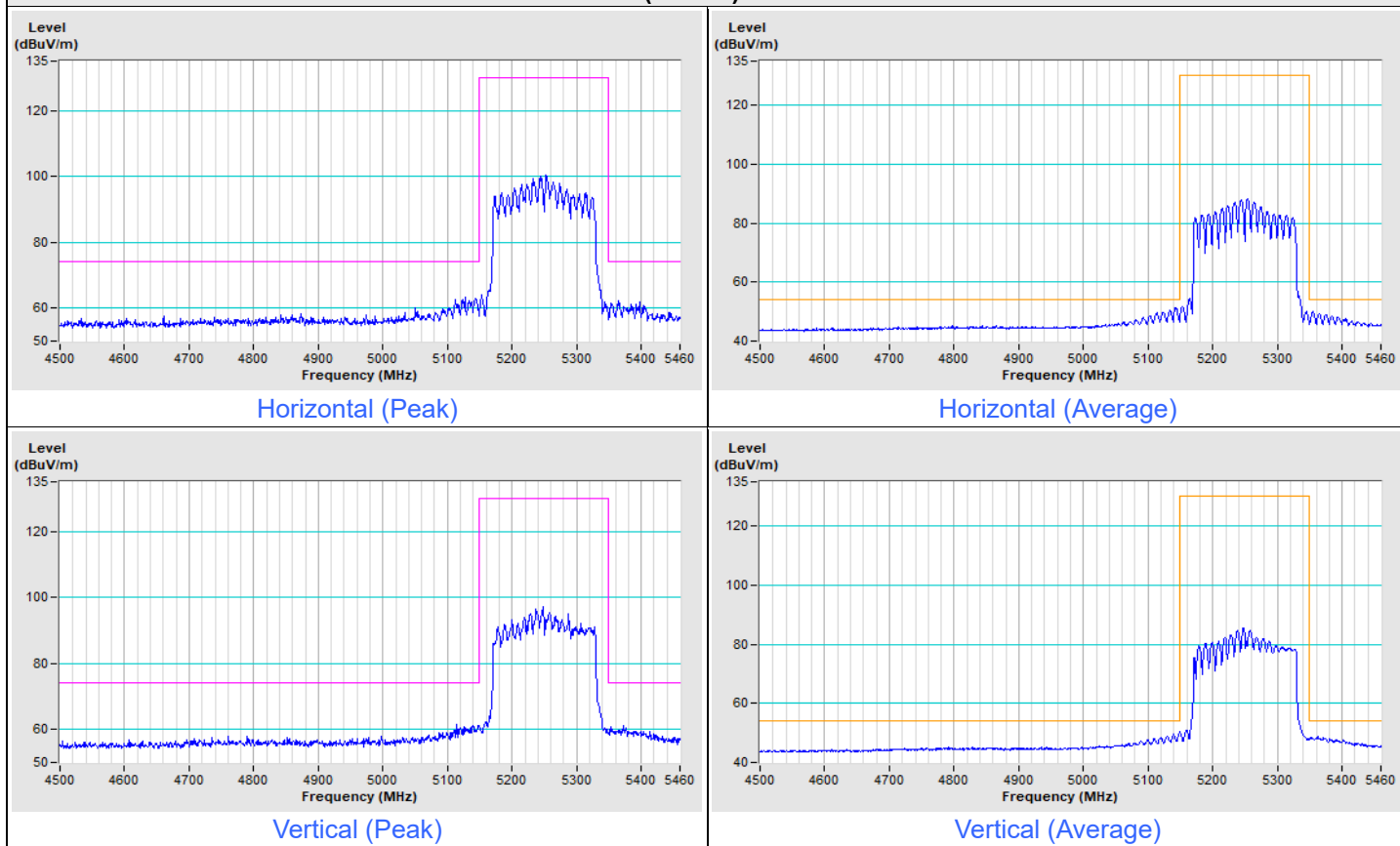
Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE80) Channel 155



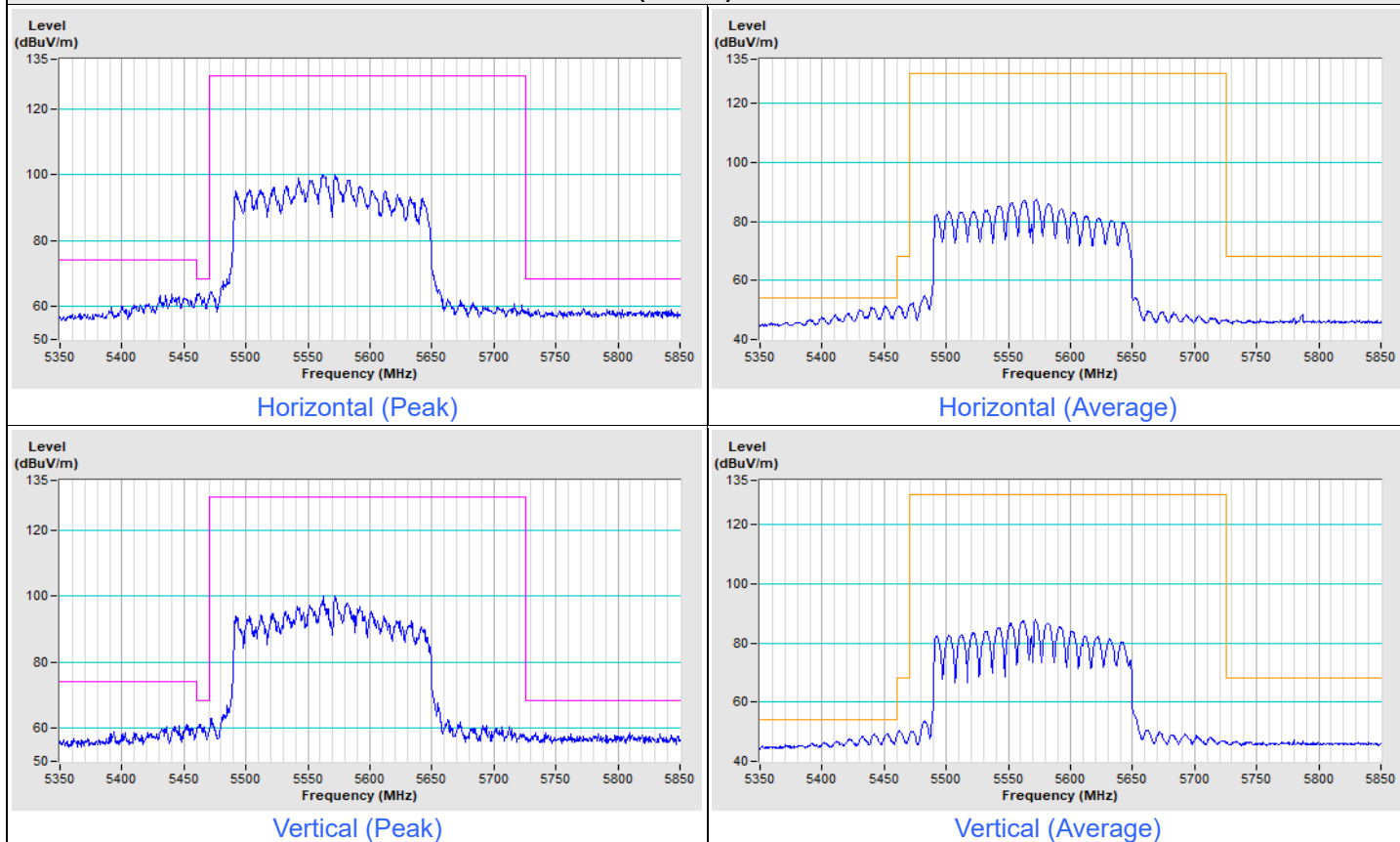
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
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802.11ax (HE160) Channel 50



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=2 kHz, DET=Peak
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802.11ax (HE160) Channel 114



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

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