

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBDMW-WTW-P24080735-1
FCC ID: PQRFXE5000-US
Product: IEEE802.11ax/ac/n/a/b/g Wireless LAN
Brand: CONTEC
Model No.: FXE5000-US
Received Date: 2024/8/29
Test Date: 2024/11/19 ~ 2024/12/11
Issued Date: 2025/1/9
Applicant: CONTEC CO., LTD.
Address: 3-9-31, HIMESATO, NISHIYODOGAWA-KU, OSAKA 555-0025, JAPAN
Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory
Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
FCC Registration / 723255 / TW2022
Designation Number:

Approved by: _____

May Chen / Manager

, Date: _____

2025/1/9

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Prepared by : Phoenix Huang / Specialist

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Table of Contents

Release Control Record	4
1 Certificate.....	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Supplementary Information	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Antenna Description of EUT	8
3.3 Channel List.....	9
3.4 Test Mode Applicability and Tested Channel Detail.....	11
3.5 Duty Cycle of Test Signal.....	13
3.6 Test Program Used and Operation Descriptions	15
3.7 Connection Diagram of EUT and Peripheral Devices	15
3.8 Configuration of Peripheral Devices and Cable Connections	16
4 Test Instruments	17
4.1 26 dB Bandwidth	17
4.2 RF Output Power.....	17
4.3 Power Spectral Density	17
4.4 6 dB Bandwidth	17
4.5 Occupied Bandwidth.....	17
4.6 AC Power Conducted Emissions	18
4.7 Unwanted Emissions below 1 GHz	18
4.8 Unwanted Emissions above 1 GHz.....	19
5 Limits of Test Items.....	20
5.1 26 dB Bandwidth	20
5.2 RF Output Power.....	20
5.3 Power Spectral Density	20
5.4 6 dB Bandwidth	20
5.5 Occupied Bandwidth.....	20
5.6 AC Power Conducted Emissions	21
5.7 Unwanted Emissions below 1 GHz	21
5.8 Unwanted Emissions above 1 GHz.....	22
6 Test Arrangements.....	23
6.1 26 dB Bandwidth	23
6.1.1 Test Setup	23
6.1.2 Test Procedure.....	23
6.2 RF Output Power.....	23
6.2.1 Test Setup	23
6.2.2 Test Procedure.....	23
6.3 Power Spectral Density	24
6.3.1 Test Setup	24
6.3.2 Test Procedure.....	24
6.4 6 dB Bandwidth	24
6.4.1 Test Setup	24
6.4.2 Test Procedure.....	24
6.5 Occupied Bandwidth.....	25
6.5.1 Test Setup	25
6.5.2 Test Procedure.....	25
6.6 AC Power Conducted Emissions	25
6.6.1 Test Setup	25
6.6.2 Test Procedure.....	25
6.7 Unwanted Emissions below 1 GHz	26
6.7.1 Test Setup	26
6.7.2 Test Procedure.....	27

6.8	Unwanted Emissions above 1 GHz.....	28
6.8.1	Test Setup	28
6.8.2	Test Procedure	28
7	Test Results of Test Item	29
7.1	26 dB Bandwidth	29
7.2	RF Output Power.....	34
7.3	Power Spectral Density	43
7.4	6 dB Bandwidth	50
7.5	Occupied Bandwidth.....	52
7.6	AC Power Conducted Emissions	58
7.7	Unwanted Emissions below 1 GHz	60
7.8	Unwanted Emissions above 1 GHz.....	62
8	Pictures of Test Arrangements	164
9	Information of the Testing Laboratories	165

Release Control Record

Issue No.	Description	Date Issued
RFBDMW-WTW-P24080735-1	Original release.	2025/1/9

1 Certificate

Product: IEEE802.11ax/ac/n/a/b/g Wireless LAN

Brand: CONTEC

Test Model: FXE5000-US

Sample Status: Engineering sample

Applicant: CONTEC CO., LTD.

Test Date: 2024/11/19 ~ 2024/12/11

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

Measurement ANSI C63.10-2013

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

KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -7.09 dB at 0.59141 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.6 dB at 49.50 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 5150.00, 5460.00 and 5725.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is U.FL not a standard connector.

Notes:

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
26 dB Bandwidth	-	1050.00 Hz
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	1050.00 Hz
Occupied Bandwidth	-	1050.00 Hz
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.4 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.0 dB
	18 GHz ~ 40 GHz	5.3 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	IEEE802.11ax/ac/n/a/b/g Wireless LAN
Brand	CONTEC
Test Model	FXE5000-US
Status of EUT	Engineering sample
Power Supply Rating	5 - 30 Vdc
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 2401.9 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 802.11ac (VHT160), 802.11ax (HE160): 1
Output Power	CDD: 5.18 GHz ~ 5.24 GHz: 224.741 mW (23.52 dBm) 5.26 GHz ~ 5.32 GHz: 159.262 mW (22.02 dBm) 5.5 GHz ~ 5.72 GHz: 206.333 mW (23.15 dBm) 5.745 GHz ~ 5.825 GHz: 238.279 mW (23.77 dBm) Beamforming: 5.18 GHz ~ 5.24 GHz: 224.741 mW (23.52 dBm) 5.26 GHz ~ 5.32 GHz: 153.657 mW (21.87 dBm) 5.5 GHz ~ 5.72 GHz: 206.333 mW (23.15 dBm) 5.745 GHz ~ 5.825 GHz: 238.279 mW (23.77 dBm)
EUT Category	Indoor Access Point

Note:

1. There are WLAN (2.4 GHz), WLAN (5 GHz) and WLAN (6 GHz) technology used for the EUT.
2. Simultaneously transmission combination.

Combination	Technology	
1	WLAN (2.4 GHz)	WLAN (5 GHz)
2	WLAN (2.4 GHz)	WLAN (6 GHz)

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Set	RF Chain NO.	Brand	Model	Antenna Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain 0	Johanson	2450AD18A6050	2	2.4 ~ 2.4835	Chip	U.FL	110
				1.5	5.15 ~ 5.85			
				2.7	5.925 ~ 6.425			
	Chain 1	Johanson	2450AD18A6050	2	2.4 ~ 2.4835	Chip	U.FL	45
				1.5	5.15 ~ 5.85			
				2.7	5.925 ~ 6.425			
2	Chain 0	CIROCOMM	DCAH0S17	3.8	2.4 ~ 2.4835	Chip	U.FL	110
				3.63	5.15 ~ 5.85			
				3.97	5.925 ~ 6.425			
	Chain 1	CIROCOMM	DCAH0S17	3.8	2.4 ~ 2.4835	Chip	U.FL	110
				3.63	5.15 ~ 5.85			
				3.97	5.925 ~ 6.425			

Note: Above antennas, Antenna Set 2 was selected for the final test.

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

2. The EUT incorporates a MIMO function:

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

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz). Therefore the investigated worst case is the representative mode in test report.
4. * Only one channel (Ch 114) was supported the 160 MHz bandwidth.

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5720 MHz

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

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

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

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

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

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

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:	1. EUT's antenna can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. For Unwanted Emissions and AC Power Conducted Emissions items have multiple power sources: Power connector/ AC Adapter. Pre-scan these modes and find the worst case as a representative test condition. 3. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. EUT's antenna pre-scan X-axis/ Y-axis/ Z-axis worst condition: X-axis 2. For Unwanted Emissions and AC Power Conducted Emissions items worst condition: AC Adapter.

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ax (HE20)		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)		114	BPSK	MCS0
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD / Beamforming	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)		114	BPSK	MCS0
Power Spectral Density	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)		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)		114	BPSK	MCS0
6 dB Bandwidth	802.11a	CDD	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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Occupied Bandwidth	802.11a	CDD	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)		114	BPSK	MCS0
AC Power Conducted Emissions	802.11ax (HE20)	CDD	157	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE20)	CDD	157	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)		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)		114	BPSK	MCS0
Note: Partial RU (resource unit) mechanism is not supported.					

3.5 Duty Cycle of Test Signal

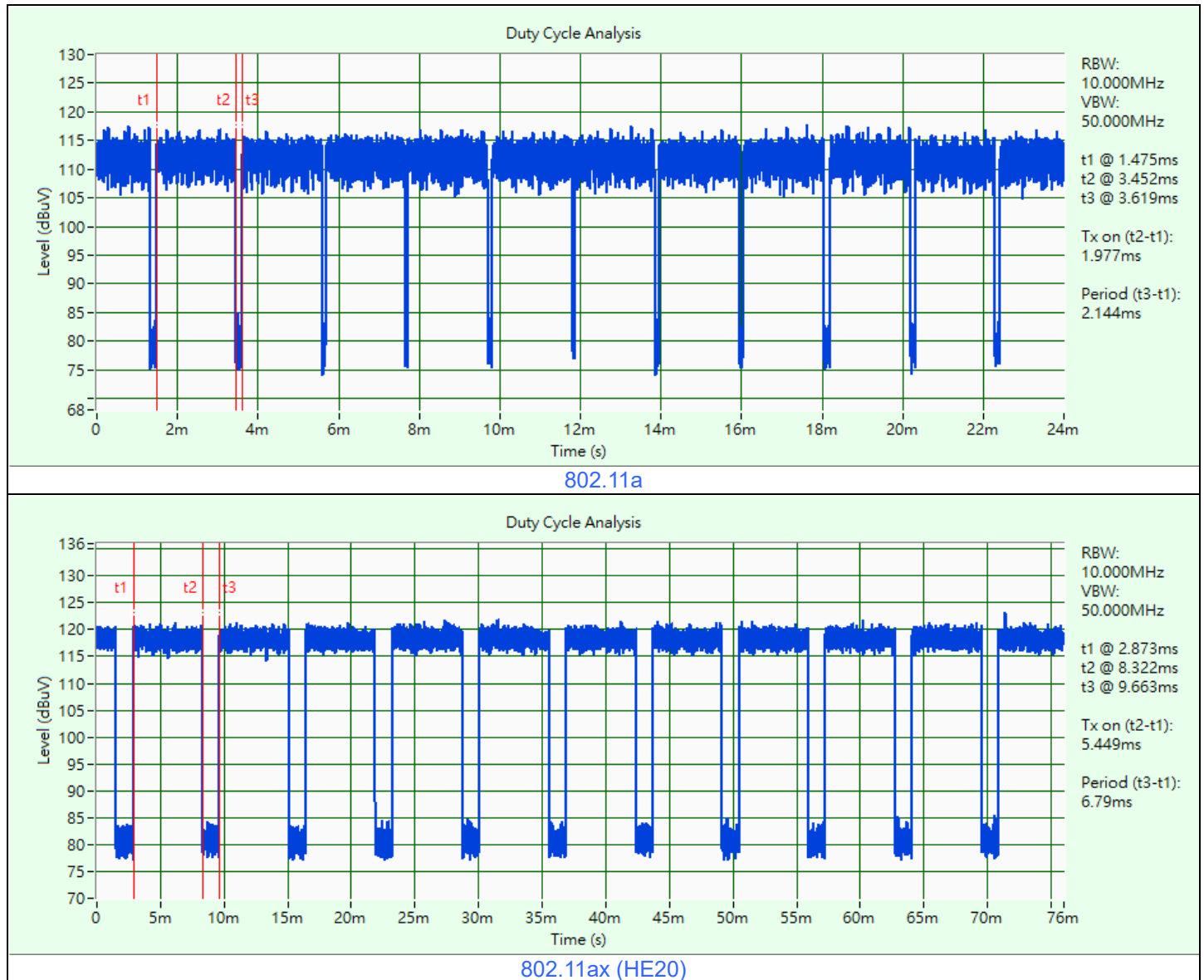
802.11a: Duty cycle = $1.977 \text{ ms} / 2.144 \text{ ms} \times 100\% = 92.2\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.35 \text{ dB}$

802.11ax (HE20): Duty cycle = $5.449 \text{ ms} / 6.79 \text{ ms} \times 100\% = 80.3\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.96 \text{ dB}$

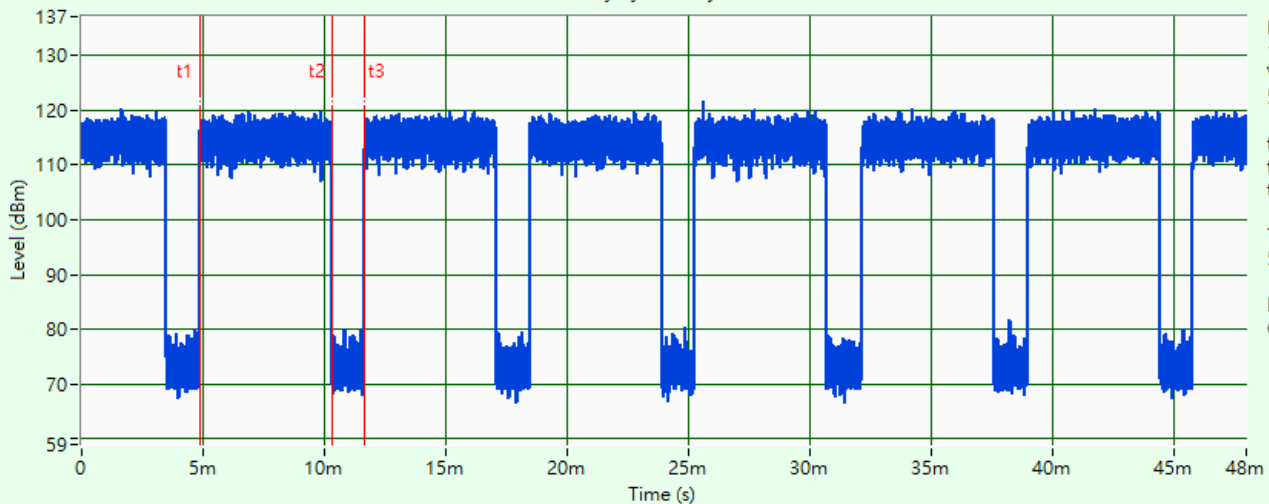
802.11ax (HE40): Duty cycle = $5.445 \text{ ms} / 6.8 \text{ ms} \times 100\% = 80.1\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.97 \text{ dB}$

802.11ax (HE80): Duty cycle = $5.445 \text{ ms} / 6.791 \text{ ms} \times 100\% = 80.2\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.96 \text{ dB}$

802.11ax (HE160): Duty cycle = $5.445 \text{ ms} / 6.818 \text{ ms} \times 100\% = 79.9\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.98 \text{ dB}$

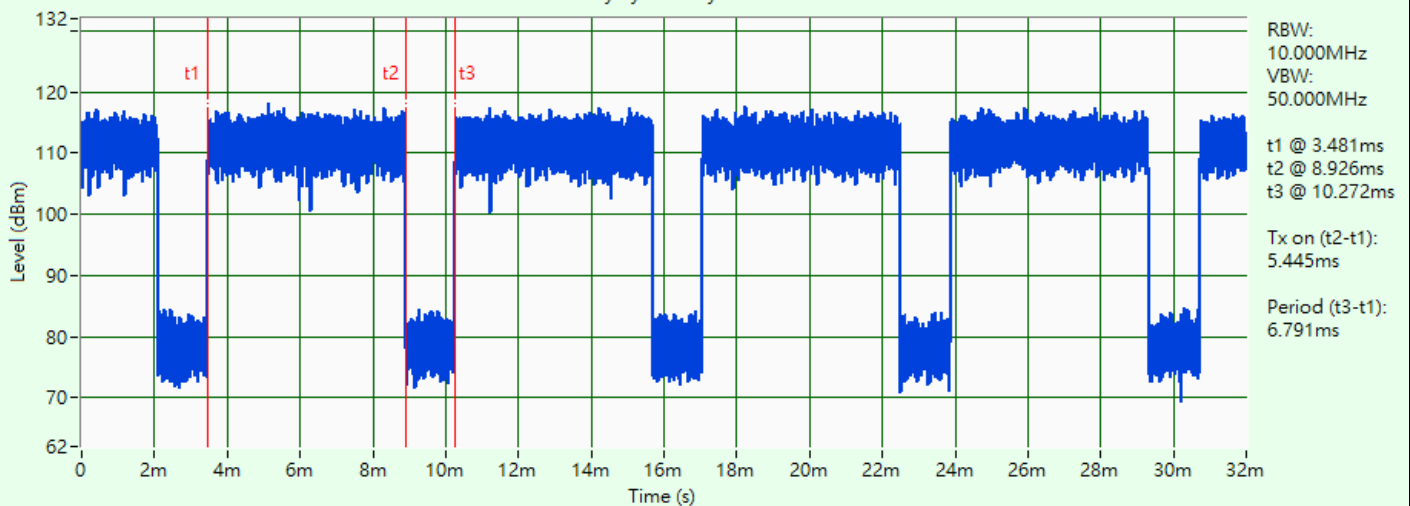


Duty Cycle Analysis



802.11ax (HE40)

Duty Cycle Analysis



802.11ax (HE80)

Duty Cycle Analysis



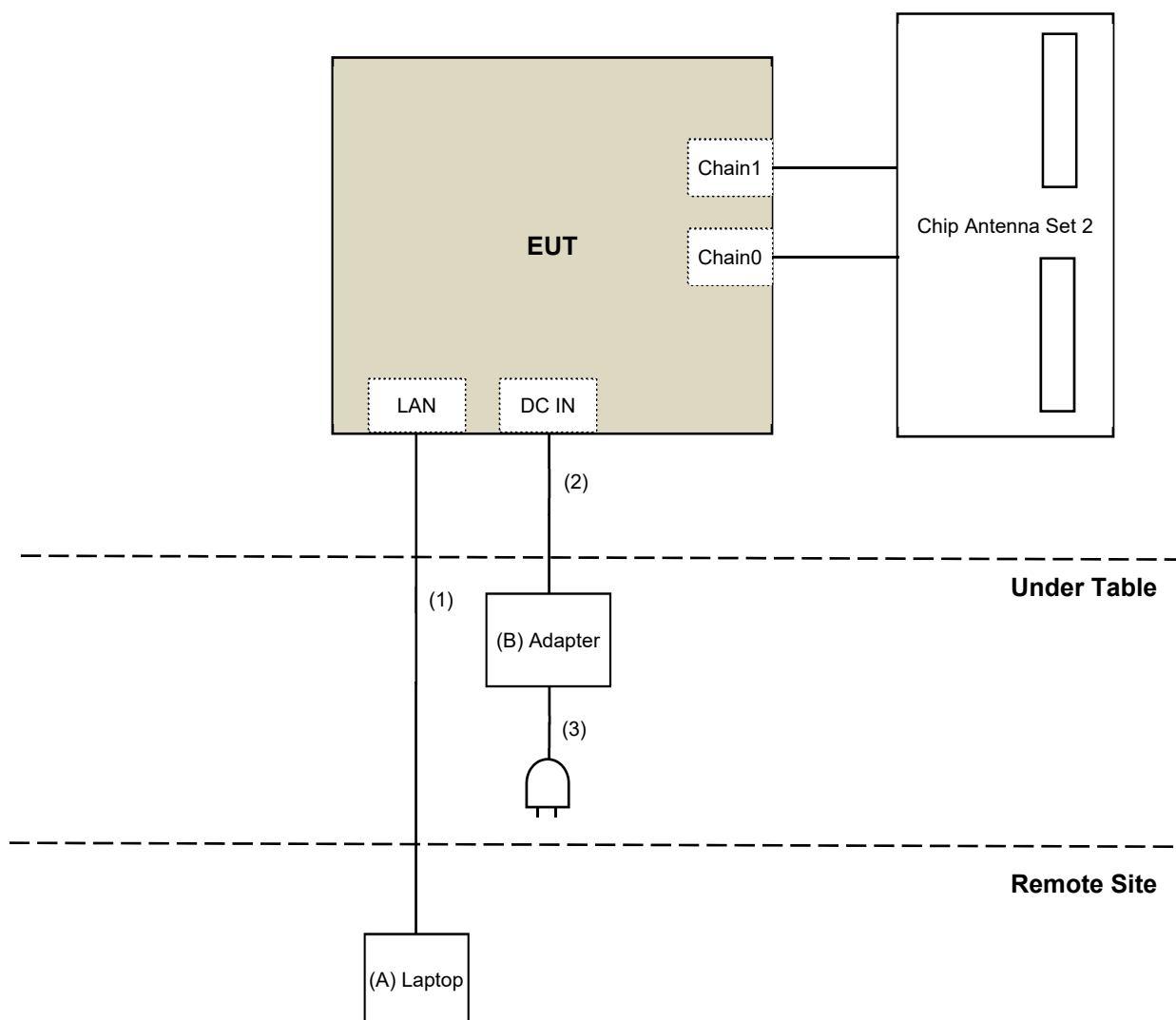
802.11ax (HE160)

3.6 Test Program Used and Operation Descriptions

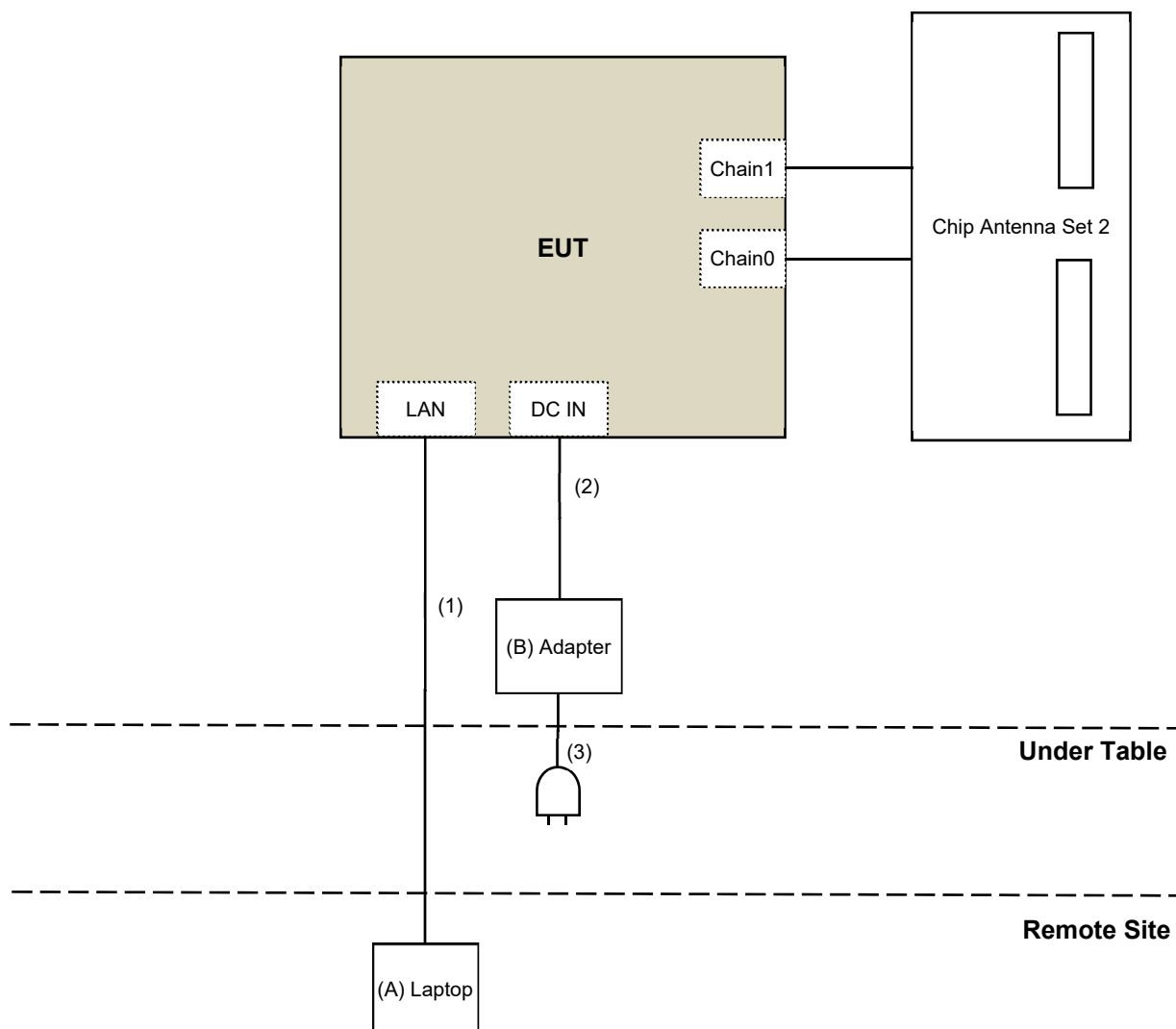
Controlling software (10-YE009-100_MP03.1_PN02.1_RDP404_RevB_20240528.cxtt) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emissions test:



For AC Power Conducted Emission test:



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	L440	R90FM90G	N/A	Provided by Lab
B	Adapter	ADAPTER TECH	ATS018T-A050	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	1	10	No	0	Provided by Lab
2	DC Cable	1	1.5	No	0	Supplied by applicant
3	AC Cable	1	1.8	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
MXA Signal Analyzer Keysight	N9020B	MY60112408	2024/3/7	2025/3/6
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/12/11

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
MXA Signal Analyzer Keysight	N9020B	MY60112408	2024/3/7	2025/3/6
Pulse Power Sensor Anritsu	MA2411B	1726434	2024/6/7	2025/6/6
RF Power Meter Anritsu	ML2495A	1529002	2024/6/7	2025/6/6
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/12/11

4.3 Power Spectral Density

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

4.4 6 dB Bandwidth

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

4.5 Occupied Bandwidth

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

4.6 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance Telegartner	50 ohm	3	2024/11/1	2025/10/31
EMI Test Receiver R&S	ESCS 30	100375	2024/5/20	2025/5/19
Fixed Attenuator STI	STI02-2200-10	005	2024/2/19	2025/2/18
LISN R&S	ESH3-Z5	835239/001	2024/4/3	2025/4/2
		848773/004	2024/10/7	2025/10/6
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2024/2/19	2025/2/18
Software BVADT	BVADT_Conc_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2024/11/19

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-361	2024/10/8	2025/10/7
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	2024/2/17	2025/2/16
Loop Antenna TESEQ	HLA 6121	63620	2024/10/17	2025/10/16
MXE EMI Receiver Agilent	N9038A	MY50010156	2024/6/5	2025/6/4
Preamplifier EMCI	EMC330N	980852	2024/2/17	2025/2/16
	EMC001340	980142	2024/2/19	2025/2/18
RF Coaxial Cable JYEBAO	5D-FB	LOOPCAB-001	2024/2/19	2025/2/18
		LOOPCAB-002	2024/2/19	2025/2/18
RF Coaxial Cable PEWC	8D	001	2024/2/16	2025/2/15
		966-3-2	2024/2/16	2025/2/15
		966-3-3	2024/2/16	2025/2/15
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2024/12/2

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-406	2024/11/10	2025/11/9
	BBHA 9170	9170-739	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY50010156	2024/6/5	2025/6/4
Preamplifier EMCI	EMC12630SE	980384	2024/1/29	2025/1/28
	EMC184045SE	980387	2024/8/8	2025/8/7
PXA Signal Analyzer Keysight	N9030B	MY57142938	2024/3/20	2025/3/19
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2024/1/29	2025/1/28
	EMC102-KM-KM-4000	200214	2024/1/29	2025/1/28
	EMC104-SM-SM-1500	180504	2024/1/29	2025/1/28
	EMC104-SM-SM-2000	180601	2024/1/29	2025/1/28
	EMC104-SM-SM-6000	210201	2024/1/29	2025/1/28
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2024/11/20 ~ 2024/12/3

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 AC Power Conducted Emissions

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

Notes:

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

5.7 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.8 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1}	PK: 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.

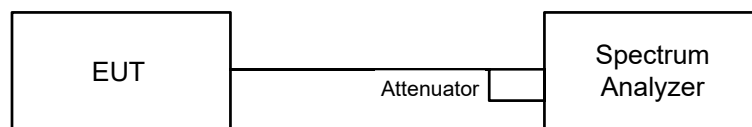
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

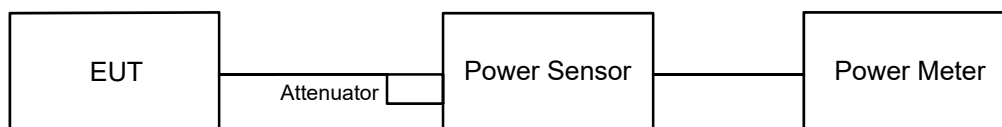


6.1.2 Test Procedure

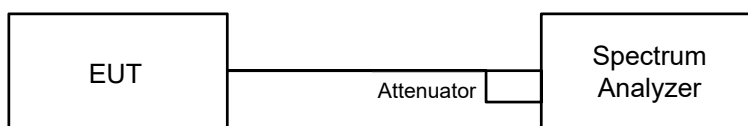
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

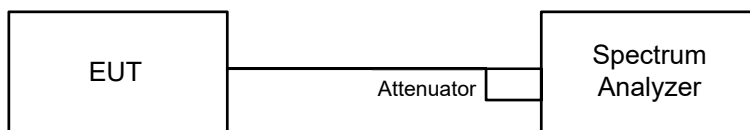
Method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
- Sweep points ≥ $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.) Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle).

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-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).

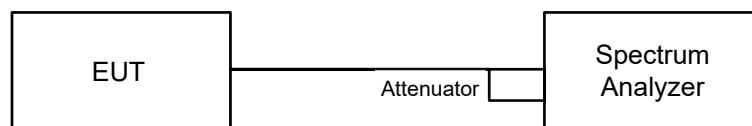
For specified measurement bandwidth 500 kHz:

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).

6.4 6 dB Bandwidth

6.4.1 Test Setup

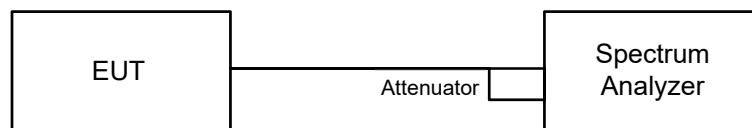


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

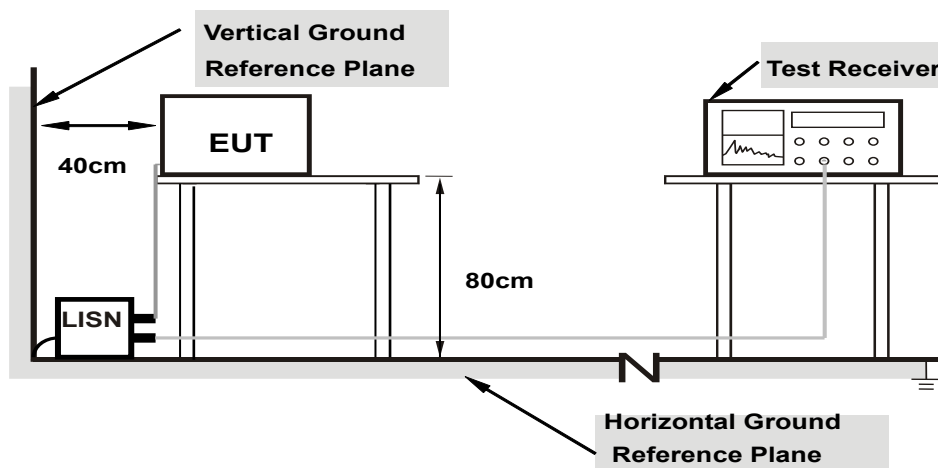


6.5.2 Test Procedure

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

6.6 AC Power Conducted Emissions

6.6.1 Test Setup



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

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

6.6.2 Test Procedure

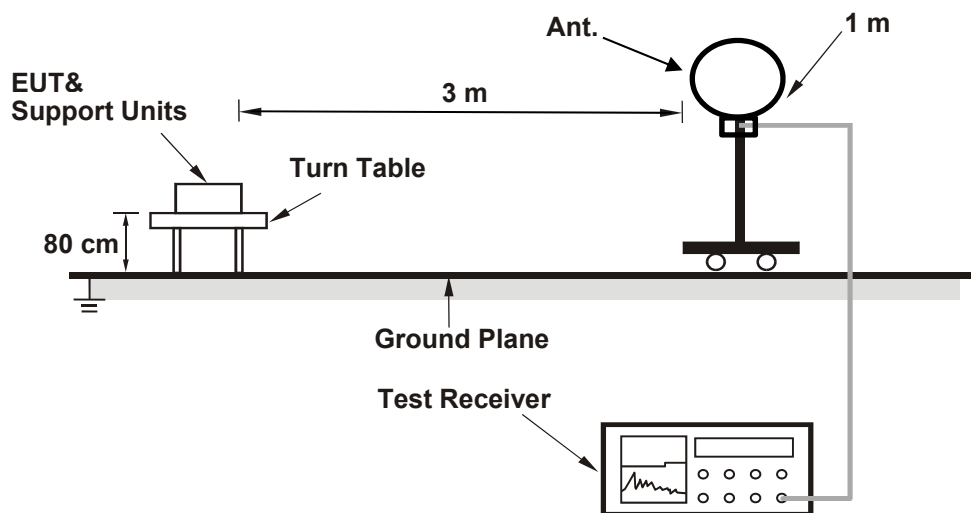
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

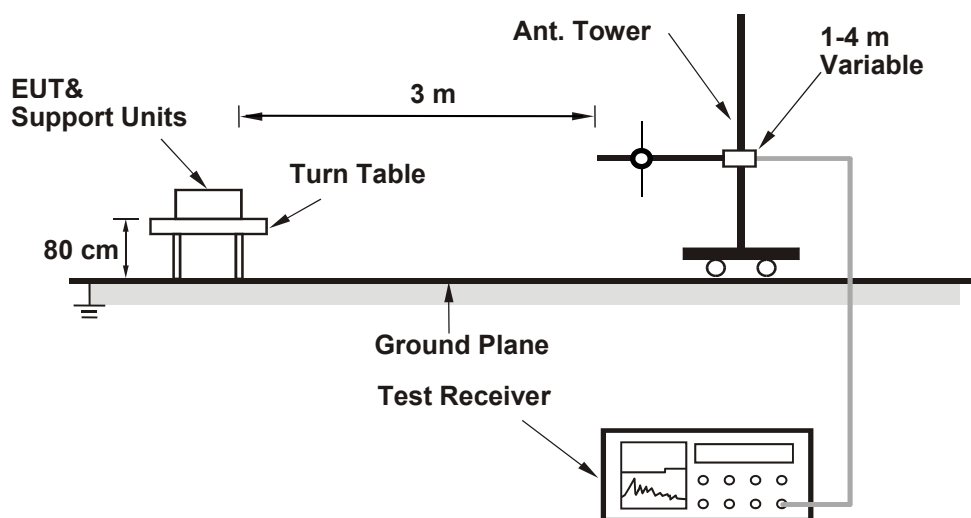
6.7 Unwanted Emissions below 1 GHz

6.7.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.7.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

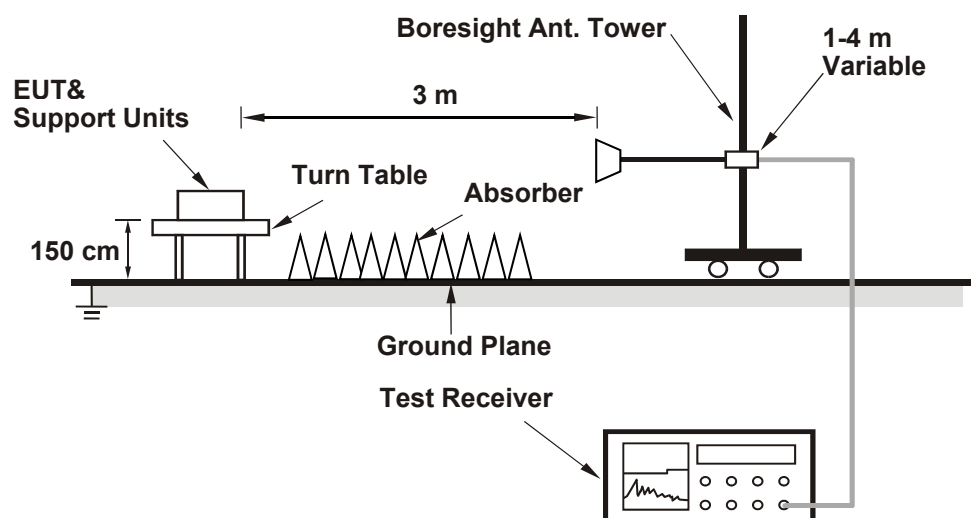
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

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

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup



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

6.8.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	120 Vac, 60 Hz (System)	Environmental Conditions:	26°C, 62% RH	Tested By:	Katina Lu
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	36.61	34.51
60	5300	42.41	39.03
64	5320	22.72	19.76
100	5500	20.79	20.89
116	5580	43.58	40.16
140	5700	18.88	18.77
144 (U-NII-2C)	5720	25.46	24.61
144 (U-NII-3)	5720	15.18	14.34

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	34.51	26.37	>	24
60	5300	39.03	26.91	>	24
64	5320	19.76	23.95	<	24
100	5500	20.79	24.17	>	24
116	5580	40.16	27.03	>	24
140	5700	18.77	23.73	<	24
144 (U-NII-2C)	5720	24.61	24.91	>	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	32.18	27.06
60	5300	42.55	41.62
64	5320	26.54	21.03
100	5500	21.56	25.45
116	5580	41.41	43.55
140	5700	20.91	20.49
144 (U-NII-2C)	5720	28.31	26.13
144 (U-NII-3)	5720	16.81	15.31

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	27.06	25.32 > 24
60	5300	41.62	27.19 > 24
64	5320	21.03	24.22 > 24
100	5500	21.56	24.33 > 24
116	5580	41.41	27.17 > 24
140	5700	20.49	24.11 > 24
144 (U-NII-2C)	5720	26.13	25.17 > 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	73.48	74.74
62	5310	40.34	40.06
102	5510	40.05	40.29
110	5550	71.87	71.37
134	5670	40.26	40.07
142 (U-NII-2C)	5710	60.51	63.13
142 (U-NII-3)	5710	34.43	32.14

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	73.48	29.66 > 24
62	5310	40.06	27.02 > 24
102	5510	40.05	27.02 > 24
110	5550	71.37	29.53 > 24
134	5670	40.07	27.02 > 24
142 (U-NII-2C)	5710	60.51	28.81 > 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	82.22	81.30
106	5530	81.19	81.64
122	5610	95.76	81.48
138 (U-NII-2C)	5690	113.82	106.83
138 (U-NII-3)	5690	39.41	36.13

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	81.30	30.1 > 24
106	5530	81.19	30.09 > 24
122	5610	81.48	30.11 > 24
138 (U-NII-2C)	5690	106.83	31.28 > 24

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

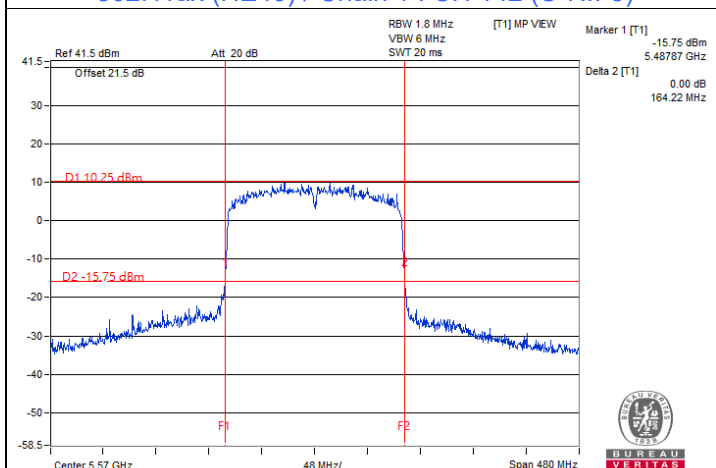
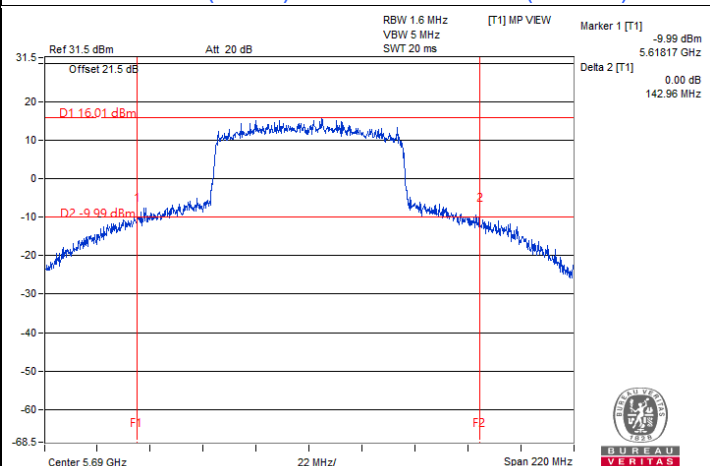
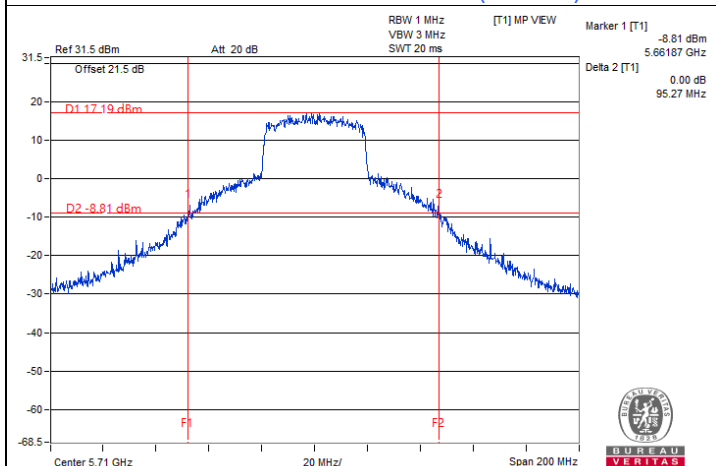
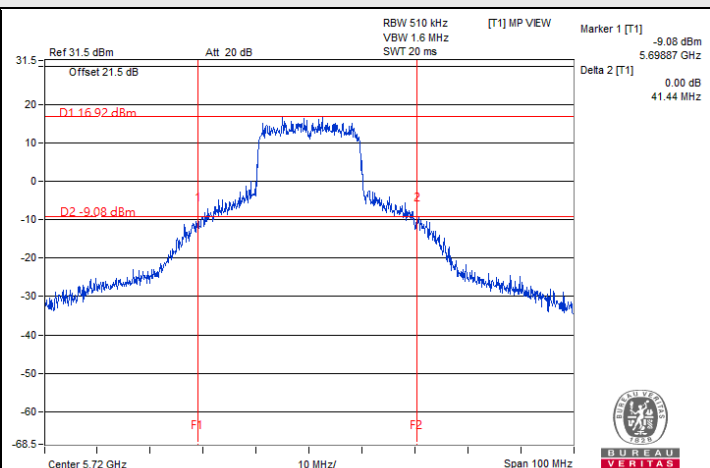
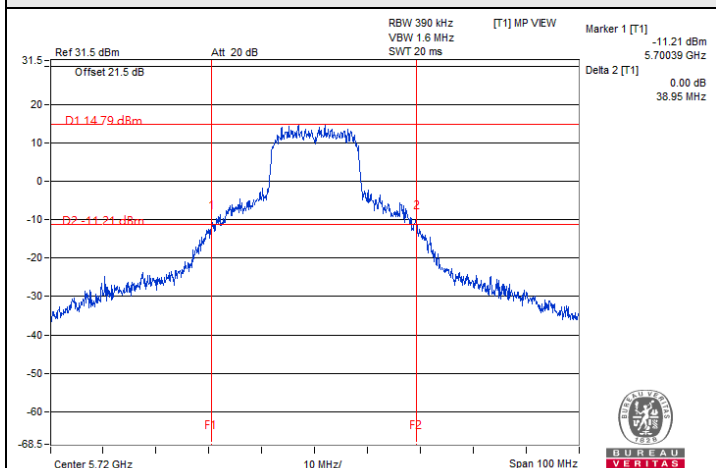
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
114	5570	168.58	164.22

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
114	5570	164.22	33.15 > 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 (System)	Environmental Conditions:	26°C, 62% RH	Tested By:	Katina Lu
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802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	17.47	17.56	112.863	20.53	30	Pass
40	5200	20.15	19.54	193.464	22.87	30	Pass
48	5240	18.78	18.22	141.884	21.52	30	Pass
52	5260	18.55	17.81	132.009	21.21	24	Pass
60	5300	19.23	18.78	159.262	22.02	24	Pass
64	5320	17.11	16.14	92.519	19.66	23.95	Pass
100	5500	16.75	16.70	94.089	19.74	24	Pass
116	5580	20.32	19.88	204.921	23.12	24	Pass
140	5700	15.14	15.09	64.944	18.13	23.73	Pass
*144 (U-NII-2C)	5720	18.66	18.59	158.038	21.99	24	Pass
*144 (U-NII-3)	5720	12.03	12.31	35.766	15.53	30	Pass
149	5745	20.77	20.42	229.553	23.61	30	Pass
157	5785	20.50	20.96	236.94	23.75	30	Pass
165	5825	20.36	20.04	209.568	23.21	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	17.44	17.55	112.348	20.51	30	Pass
40	5200	20.62	20.39	224.741	23.52	30	Pass
48	5240	18.79	18.65	148.966	21.73	30	Pass
52	5260	17.70	17.56	115.901	20.64	24	Pass
60	5300	18.90	18.81	153.657	21.87	24	Pass
64	5320	17.05	16.56	95.989	19.82	24	Pass
100	5500	16.49	17.45	100.156	20.01	24	Pass
116	5580	19.64	20.58	206.333	23.15	24	Pass
140	5700	14.81	14.85	60.818	17.84	24	Pass
*144 (U-NII-2C)	5720	18.10	17.84	156.235	21.94	24	Pass
*144 (U-NII-3)	5720	12.34	12.69	44.508	16.48	30	Pass
149	5745	20.71	20.35	226.153	23.54	30	Pass
157	5785	20.69	20.83	238.279	23.77	30	Pass
165	5825	20.53	19.66	205.449	23.13	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	15.53	15.59	71.952	18.57	30	Pass
46	5230	17.85	17.46	116.672	20.67	30	Pass
54	5270	18.29	18.07	131.574	21.19	24	Pass
62	5310	15.18	14.24	59.507	17.75	24	Pass
102	5510	15.01	16.15	72.905	18.63	24	Pass
110	5550	18.69	19.41	161.258	22.08	24	Pass
134	5670	16.07	16.14	81.573	19.12	24	Pass
*142 (U-NII-2C)	5710	18.98	19.15	201.43	23.04	24	Pass
*142 (U-NII-3)	5710	7.57	8.29	15.561	11.92	30	Pass
151	5755	19.88	19.84	193.658	22.87	30	Pass
159	5795	20.41	20.62	225.246	23.53	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	15.48	15.26	68.892	18.38	30	Pass
58	5290	13.89	13.70	47.933	16.81	24	Pass
106	5530	15.10	15.59	68.584	18.36	24	Pass
122	5610	17.43	17.93	117.422	20.70	24	Pass
*138 (U-NII-2C)	5690	18.25	18.45	170.64	22.32	24	Pass
*138 (U-NII-3)	5690	4.27	4.06	6.51	8.14	30	Pass
155	5775	17.62	17.12	109.332	20.39	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
114	5570	16.02	16.25	82.164	19.15	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2C, the maximum gain is 3.63 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	17.44	17.55	112.348	20.51	29.36	Pass
40	5200	20.62	20.39	224.741	23.52	29.36	Pass
48	5240	18.79	18.65	148.966	21.73	29.36	Pass
52	5260	17.70	17.56	115.901	20.64	23.36	Pass
60	5300	18.90	18.81	153.657	21.87	23.36	Pass
64	5320	17.05	16.56	95.989	19.82	23.36	Pass
100	5500	16.49	17.45	100.156	20.01	23.36	Pass
116	5580	19.64	20.58	206.333	23.15	23.36	Pass
140	5700	14.81	14.85	60.818	17.84	23.36	Pass
*144 (U-NII-2C)	5720	18.10	17.84	156.235	21.94	23.36	Pass
*144 (U-NII-3)	5720	12.34	12.69	44.508	16.48	29.36	Pass
149	5745	20.71	20.35	226.153	23.54	29.36	Pass
157	5785	20.69	20.83	238.279	23.77	29.36	Pass
165	5825	20.53	19.66	205.449	23.13	29.36	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 6.64 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.64-6) = 29.36 dBm.
4. For U-NII-2A, the directional gain is 6.64 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.64-6)].
5. For U-NII-2C, the directional gain is 6.64 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.64-6)].
6. For U-NII-3, the directional gain is 6.64 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.64-6) = 29.36 dBm.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	15.53	15.59	71.952	18.57	29.36	Pass
46	5230	17.85	17.46	116.672	20.67	29.36	Pass
54	5270	18.29	18.07	131.574	21.19	23.36	Pass
62	5310	15.18	14.24	59.507	17.75	23.36	Pass
102	5510	15.01	16.15	72.905	18.63	23.36	Pass
110	5550	18.69	19.41	161.258	22.08	23.36	Pass
134	5670	16.07	16.14	81.573	19.12	23.36	Pass
*142 (U-NII-2C)	5710	18.98	19.15	201.43	23.04	23.36	Pass
*142 (U-NII-3)	5710	7.57	8.29	15.561	11.92	29.36	Pass
151	5755	19.88	19.84	193.658	22.87	29.36	Pass
159	5795	20.41	20.62	225.246	23.53	29.36	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 6.64 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.64-6) = 29.36$ dBm.
- For U-NII-2A, the directional gain is 6.64 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.64-6)].
- For U-NII-2C, the directional gain is 6.64 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.64-6)].
- For U-NII-3, the directional gain is 6.64 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.64-6) = 29.36$ dBm.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	15.48	15.26	68.892	18.38	29.36	Pass
58	5290	13.89	13.70	47.933	16.81	23.36	Pass
106	5530	15.10	15.59	68.584	18.36	23.36	Pass
122	5610	17.43	17.93	117.422	20.70	23.36	Pass
*138 (U-NII-2C)	5690	18.25	18.45	170.64	22.32	23.36	Pass
*138 (U-NII-3)	5690	4.27	4.06	6.51	8.14	29.36	Pass
155	5775	17.62	17.12	109.332	20.39	29.36	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 6.64 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.64 - 6) = 29.36$ dBm.
- For U-NII-2A, the directional gain is 6.64 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.64-6)].
- For U-NII-2C, the directional gain is 6.64 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.64-6)].
- For U-NII-3, the directional gain is 6.64 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.64 - 6) = 29.36$ dBm.

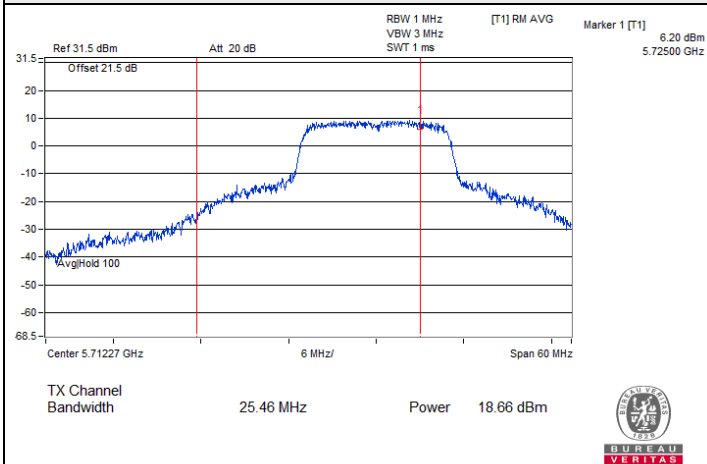
802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
114	5570	16.02	16.25	82.164	19.15	23.36	Pass

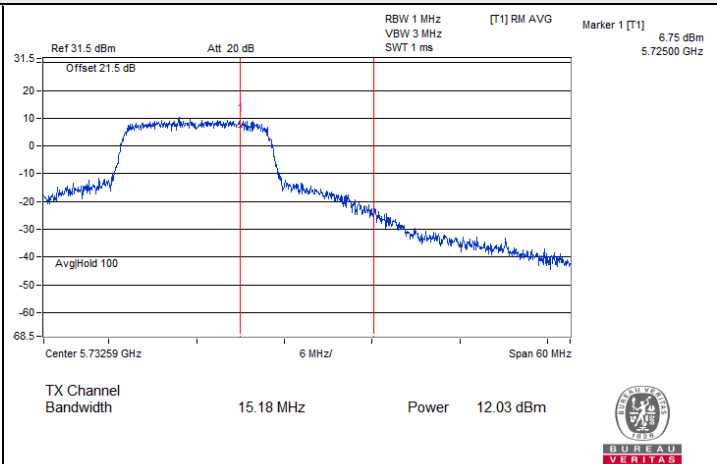
Notes:

- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-2C, the directional gain is 6.64 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.64-6)].

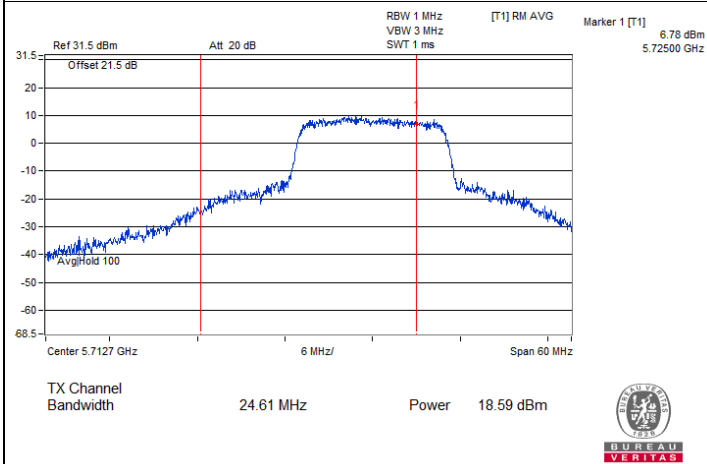
Spectrum Plot for channel straddling



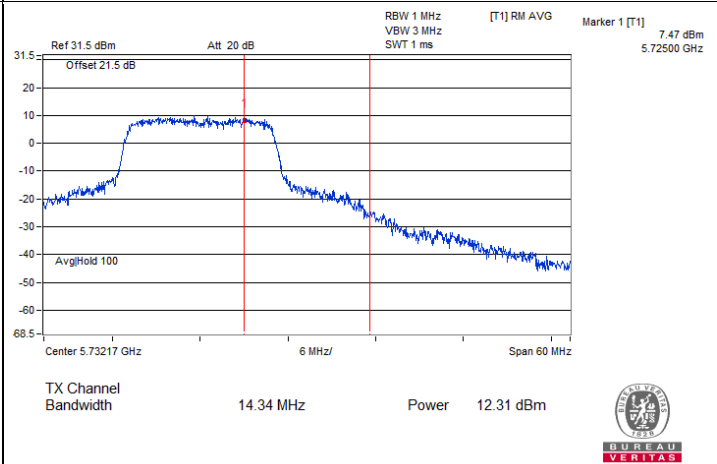
802.11a CDD / Chain 0 : CH 144 (U-NII-2C)



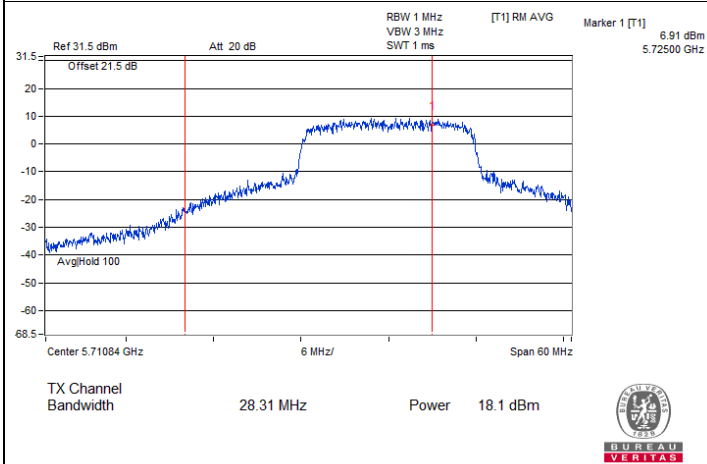
802.11a CDD / Chain 0 : CH 144 (U-NII-3)



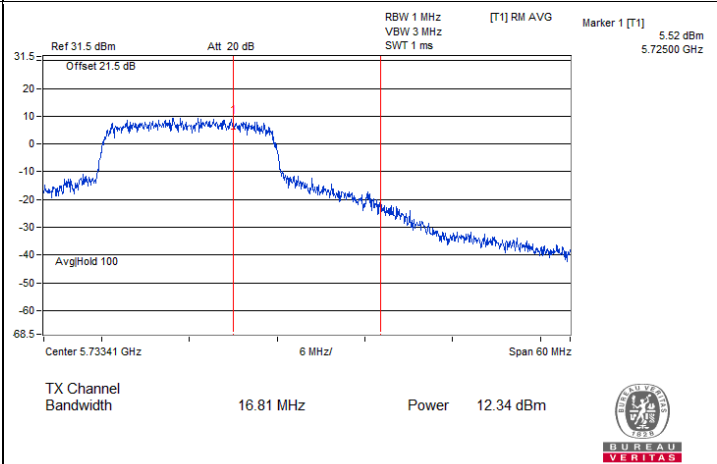
802.11a CDD / Chain 1 : CH 144 (U-NII-2C)



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

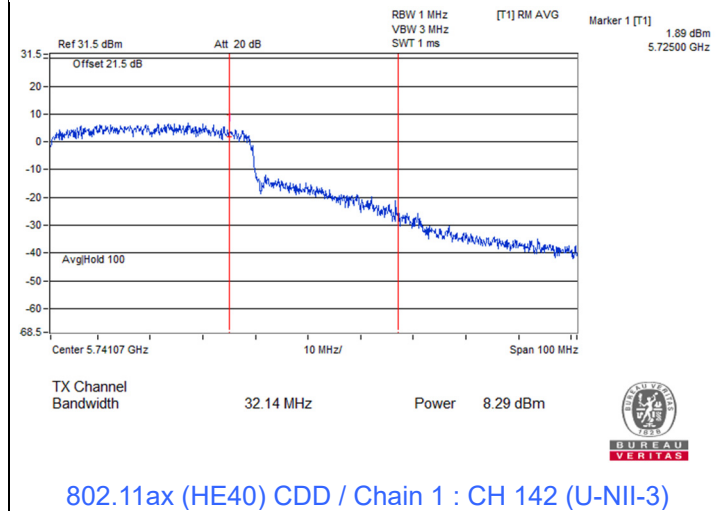
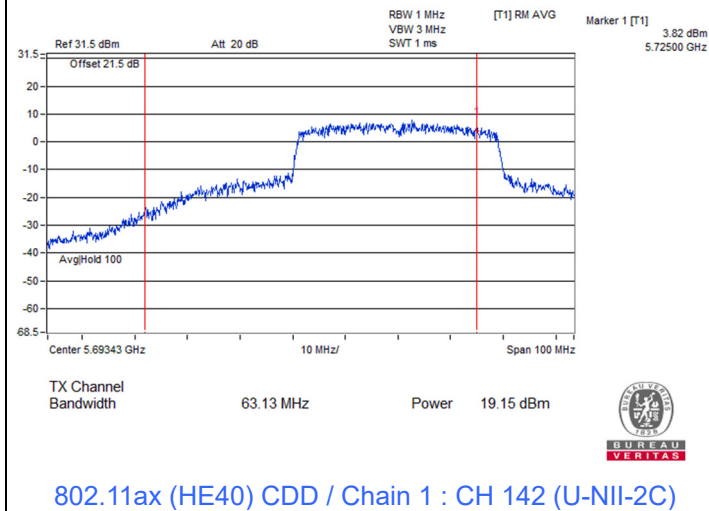
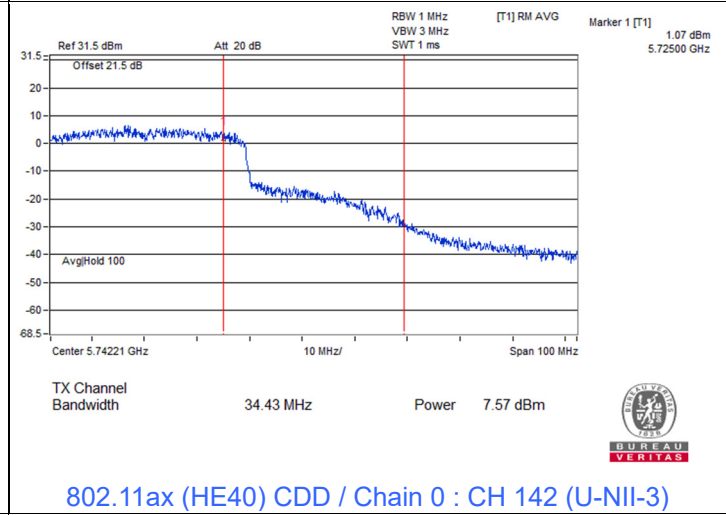
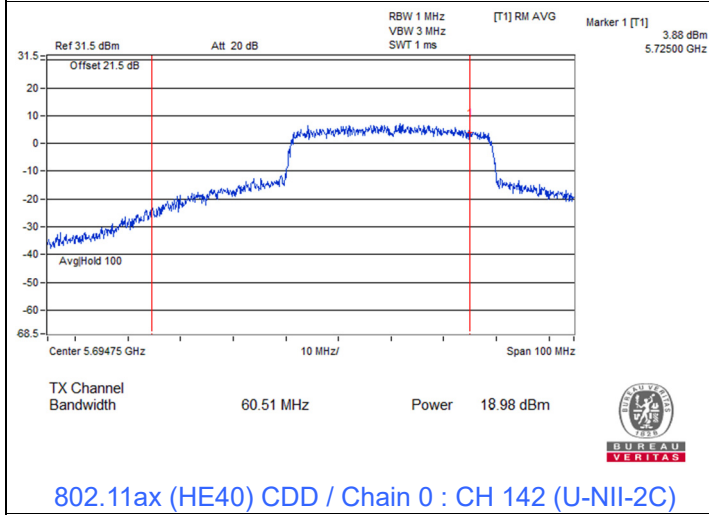
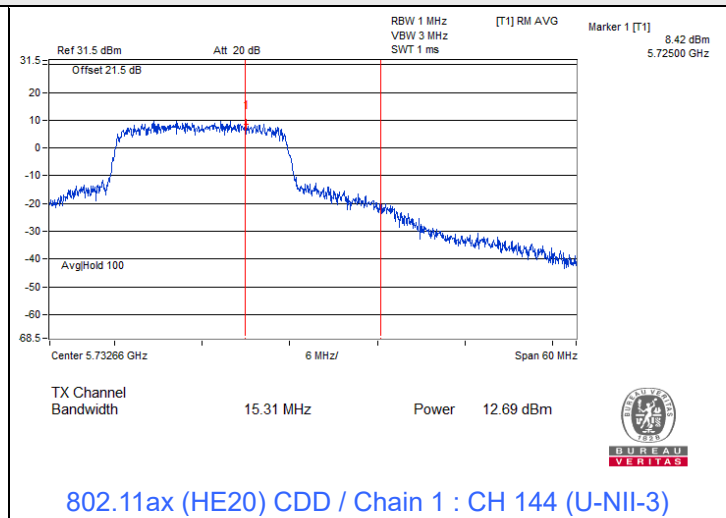
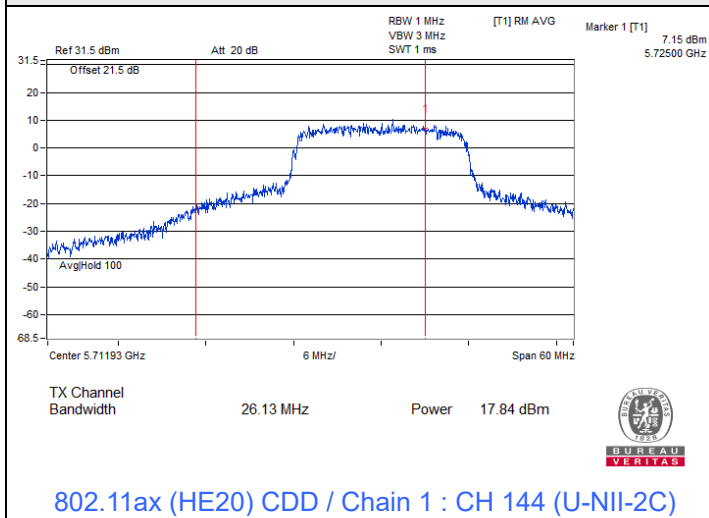


802.11ax (HE20) CDD / Chain 0 : CH 144 (U-NII-2C)

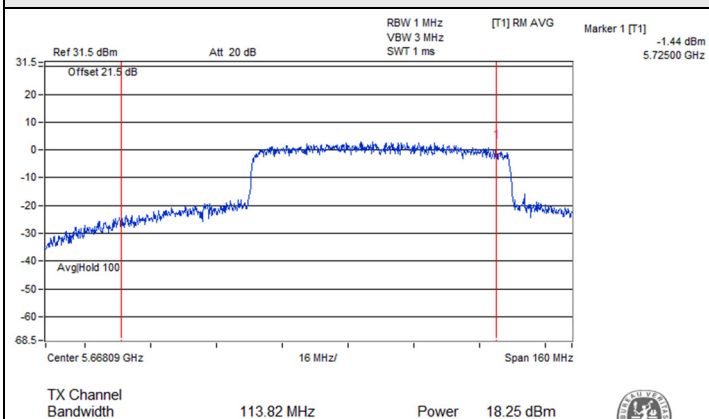


802.11ax (HE20) CDD / Chain 0 : CH 144 (U-NII-3)

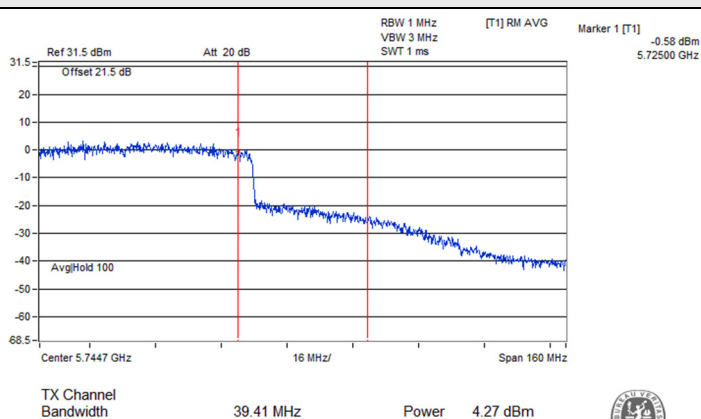
Spectrum Plot for channel straddling



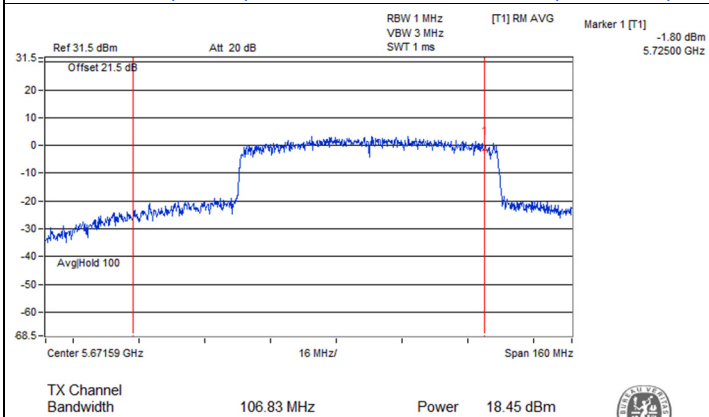
Spectrum Plot for channel straddling



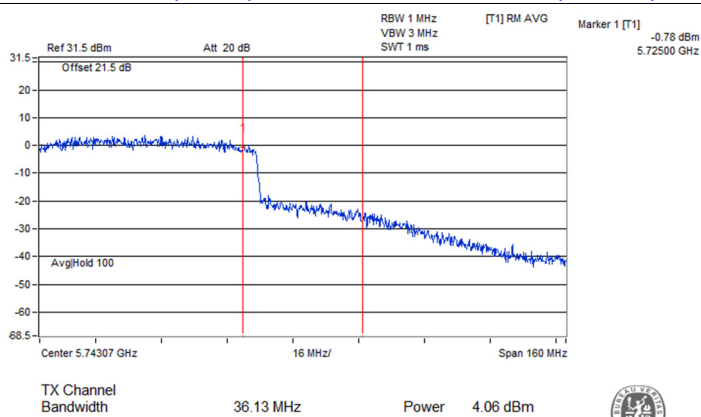
802.11ax (HE80) CDD / Chain 0 : CH 138 (U-NII-2C)



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



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



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

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz (System)	Environmental Conditions:	26°C, 62% RH	Tested By:	Katina Lu
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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	5.26	5.49	0.35	8.74	16.36	Pass
40	5200	6.96	7.56	0.35	10.63	16.36	Pass
48	5240	6.51	6.43	0.35	9.83	16.36	Pass
52	5260	6.20	5.89	0.35	9.41	10.36	Pass
60	5300	6.94	6.96	0.35	10.31	10.36	Pass
64	5320	4.49	4.13	0.35	7.67	10.36	Pass
100	5500	4.11	4.27	0.35	7.55	10.36	Pass
116	5580	6.97	6.90	0.35	10.30	10.36	Pass
140	5700	2.66	2.99	0.35	6.19	10.36	Pass
144 (U-NII-2C)	5720	6.57	6.99	0.35	10.15	10.36	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 6.64 dBi > 6dBi, so the power density limit shall be reduced to 17-(6.64-6) = 16.36 dBm/MHz.
4. For U-NII-2A, the directional gain is 6.64 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.64-6) = 10.36 dBm/MHz.
5. For U-NII-2C, the directional gain is 6.64 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.64-6) = 10.36 dBm/MHz.

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	3.76	4.27	0.96	7.99	16.36	Pass
40	5200	7.44	6.75	0.96	11.08	16.36	Pass
48	5240	5.25	4.97	0.96	9.08	16.36	Pass
52	5260	4.28	3.93	0.96	8.08	10.36	Pass
60	5300	5.60	5.23	0.96	9.39	10.36	Pass
64	5320	3.59	2.91	0.96	7.23	10.36	Pass
100	5500	2.65	3.67	0.96	7.16	10.36	Pass
116	5580	5.78	6.24	0.96	9.99	10.36	Pass
140	5700	1.18	1.97	0.96	5.56	10.36	Pass
144 (U-NII-2C)	5720	5.67	6.14	0.96	9.88	10.36	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 6.64 dBi > 6dBi, so the power density limit shall be reduced to $17-(6.64-6) = 16.36$ dBm/MHz.
4. For U-NII-2A, the directional gain is 6.64 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.64-6) = 10.36$ dBm/MHz.
5. For U-NII-2C, the directional gain is 6.64 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.64-6) = 10.36$ dBm/MHz.

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	-0.80	-0.89	0.97	3.14	16.36	Pass
46	5230	1.80	1.81	0.97	5.79	16.36	Pass
54	5270	1.83	1.88	0.97	5.84	10.36	Pass
62	5310	-1.24	-2.34	0.97	2.23	10.36	Pass
102	5510	-1.96	-1.07	0.97	2.49	10.36	Pass
110	5550	2.93	2.52	0.97	6.71	10.36	Pass
134	5670	0.27	0.11	0.97	4.17	10.36	Pass
142 (U-NII-2C)	5710	5.05	5.19	0.97	9.10	10.36	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 6.64 dBi > 6dBi, so the power density limit shall be reduced to 17-(6.64-6) = 16.36 dBm/MHz.
- For U-NII-2A, the directional gain is 6.64 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.64-6) = 10.36 dBm/MHz.
- For U-NII-2C, the directional gain is 6.64 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.64-6) = 10.36 dBm/MHz.

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	-3.72	-4.19	0.96	0.02	16.36	Pass
58	5290	-5.56	-5.92	0.96	-1.77	10.36	Pass
106	5530	-4.33	-4.54	0.96	-0.46	10.36	Pass
122	5610	-1.28	-1.87	0.96	2.41	10.36	Pass
138 (U-NII-2C)	5690	0.45	0.12	0.96	4.26	10.36	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 6.64 dBi > 6dBi, so the power density limit shall be reduced to 17-(6.64-6) = 16.36 dBm/MHz.
- For U-NII-2A, the directional gain is 6.64 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.64-6) = 10.36 dBm/MHz.
- For U-NII-2C, the directional gain is 6.64 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.64-6) = 10.36 dBm/MHz.

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				
114	5570	-5.73	-6.47	0.98	-2.09	10.36	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-2C, the directional gain is 6.64 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.64-6) = 10.36 dBm/MHz.

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	1.13	1.37	4.26	0.35	6.83	29.36	Pass
149	5745	3.20	3.15	6.19	0.35	8.76	29.36	Pass
157	5785	2.57	2.69	5.64	0.35	8.21	29.36	Pass
165	5825	3.23	2.96	6.11	0.35	8.68	29.36	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 6.64 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.64-6) = 29.36 dBm/500kHz.

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	0.05	0.17	3.12	0.96	6.30	29.36	Pass
149	5745	1.61	1.77	4.7	0.96	7.88	29.36	Pass
157	5785	1.89	2.60	5.27	0.96	8.45	29.36	Pass
165	5825	1.81	1.40	4.62	0.96	7.80	29.36	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 6.64 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.64-6) = 29.36 dBm/500kHz.

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	-2.40	-1.92	0.86	0.97	4.05	29.36	Pass
151	5755	-1.48	-1.35	1.6	0.97	4.79	29.36	Pass
159	5795	-0.26	0.43	3.11	0.97	6.30	29.36	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 6.64 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.64 - 6) = 29.36$ dBm/500kHz.

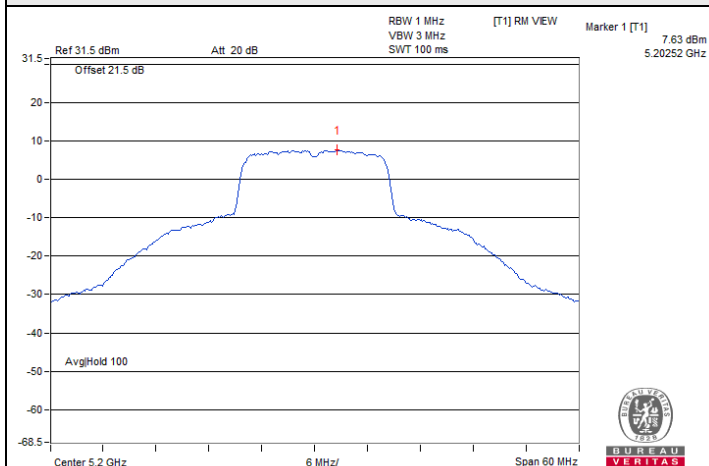
802.11ax (HE80)

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	-7.31	-7.84	-4.56	0.96	-1.38	29.36	Pass
155	5775	-7.38	-7.22	-4.29	0.96	-1.11	29.36	Pass

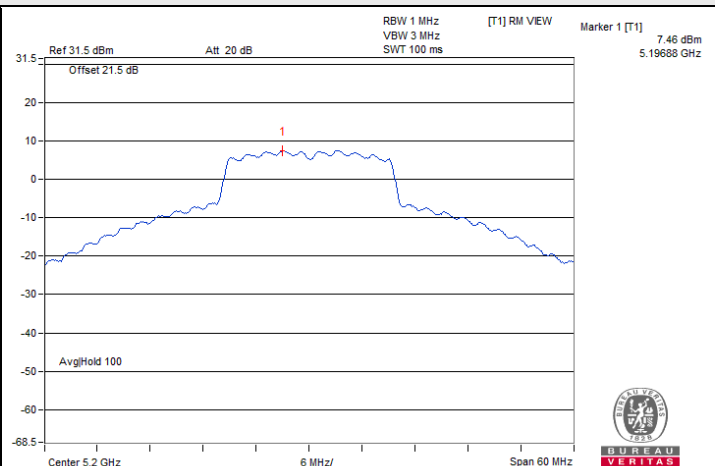
Notes:

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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 6.64 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.64 - 6) = 29.36$ dBm/500kHz.

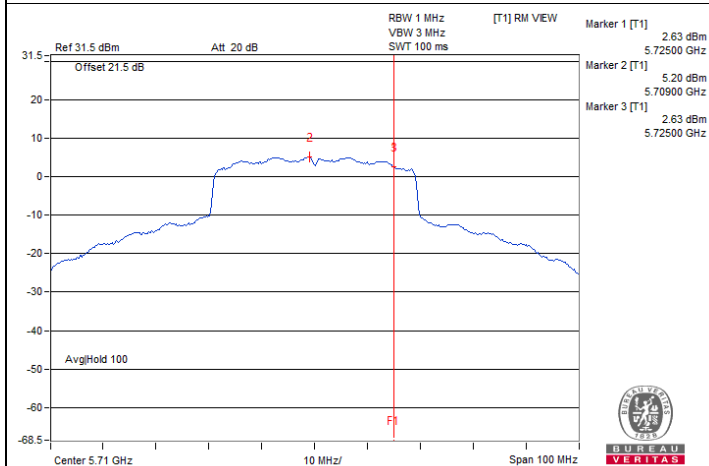
Spectrum Plot of Maximum Value



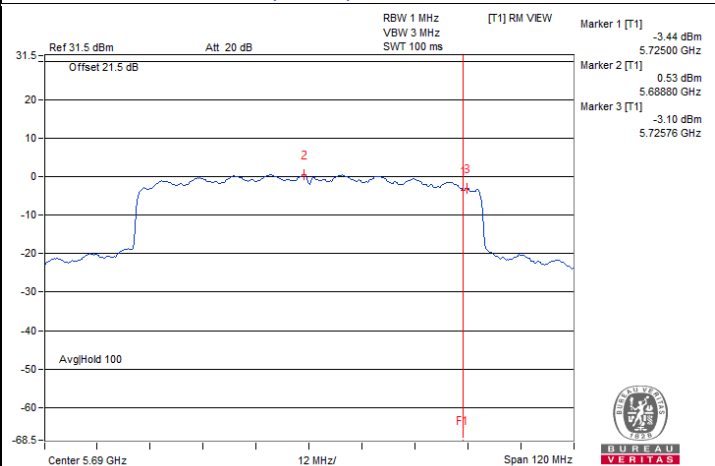
802.11a / Chain 1 : CH 40



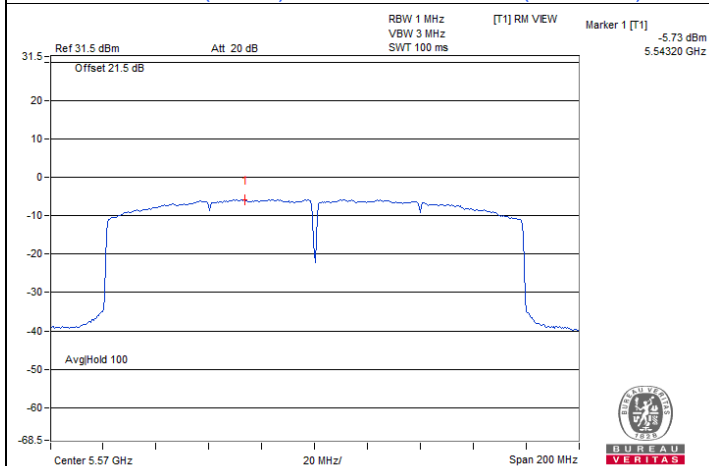
802.11ax (HE20) / Chain 0 : CH 40



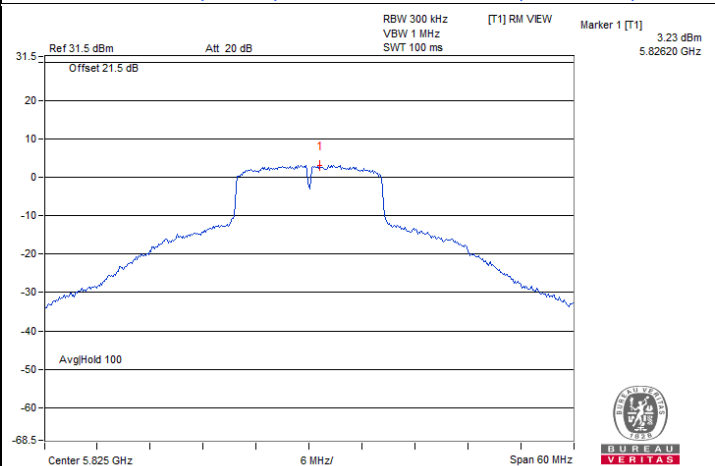
802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)



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

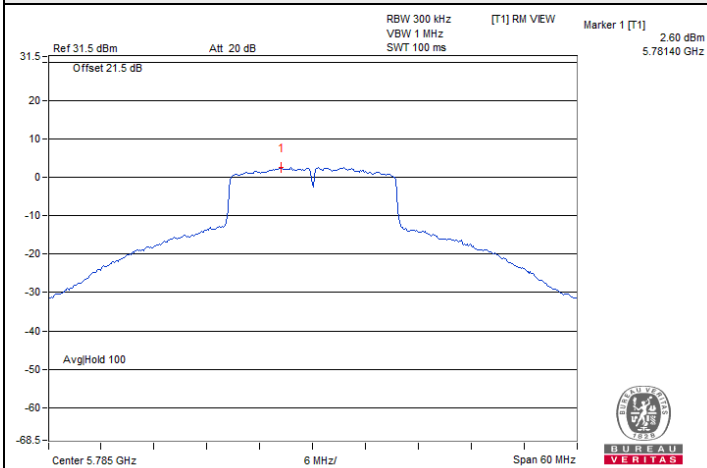


802.11ax (HE160) / Chain 0 : CH 114

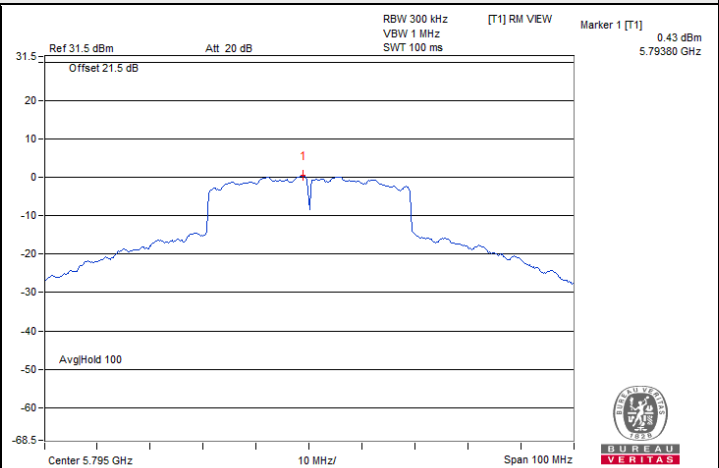


802.11a / Chain 0 : CH 165

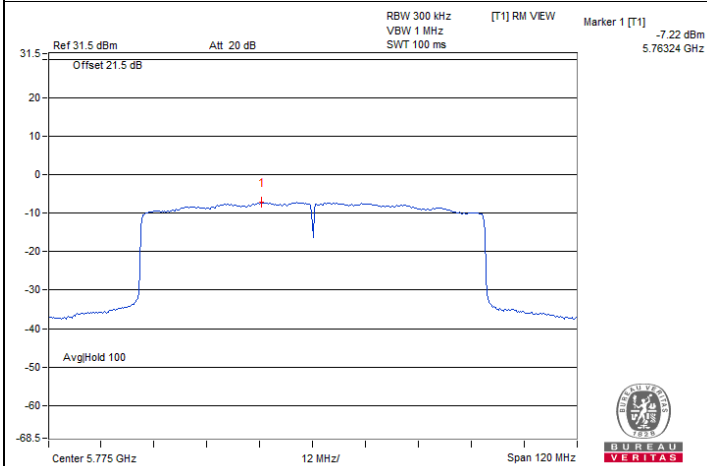
Spectrum Plot of Maximum Value



802.11ax (HE20) / Chain 1 : CH 157



802.11ax (HE40) / Chain 1 : CH 159



802.11ax (HE80) / Chain 1 : CH 155

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz (System)	Environmental Conditions:	26°C, 62% RH	Tested By:	Katina Lu
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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	3.13	3.14	0.5	Pass
149	5745	15.69	15.68	0.5	Pass
157	5785	15.04	15.46	0.5	Pass
165	5825	16.29	15.10	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	3.88	4.34	0.5	Pass
149	5745	18.58	18.45	0.5	Pass
157	5785	18.72	17.01	0.5	Pass
165	5825	18.49	18.62	0.5	Pass

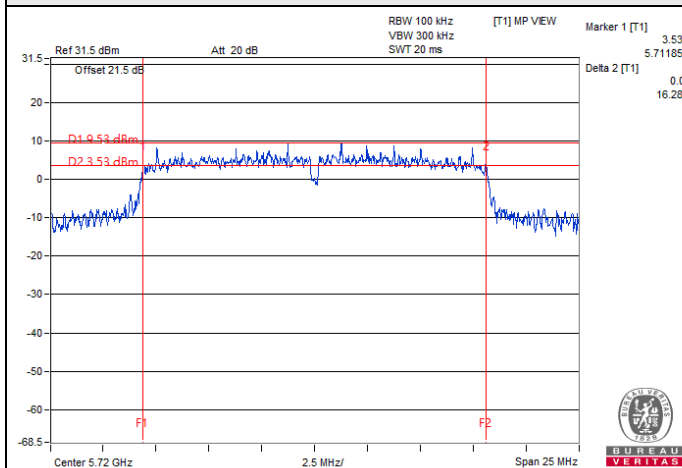
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	3.85	3.22	0.5	Pass
151	5755	36.27	37.05	0.5	Pass
159	5795	35.71	34.01	0.5	Pass

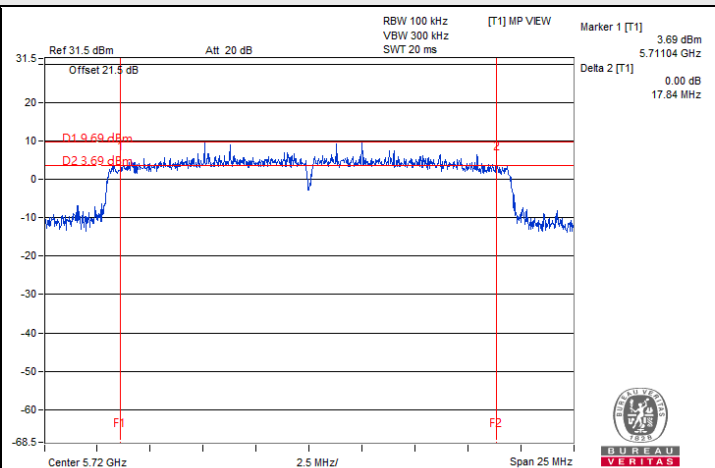
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	1.68	3.04	0.5	Pass
155	5775	73.38	75.65	0.5	Pass

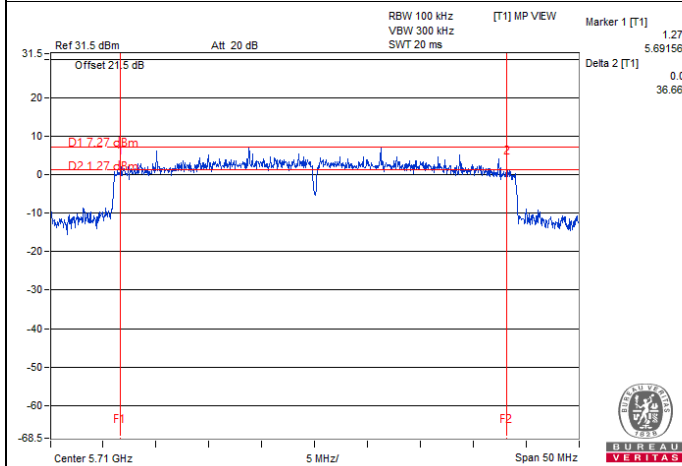
Spectrum Plot of Minimum Value



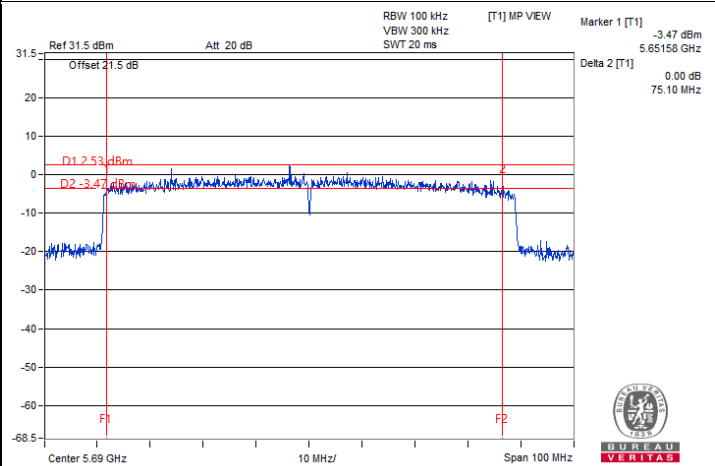
802.11a / Chain 0 : CH 144 (U-NII-3)



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



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



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

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

7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz (System)	Environmental Conditions:	26°C, 62% RH	Tested By:	Katina Lu
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.56	16.68
40	5200	23.58	27.72
48	5240	19.02	19.68
52	5260	20.28	17.16
60	5300	25.62	23.40
64	5320	16.56	16.50
100	5500	16.44	16.38
116	5580	28.50	24.60
140	5700	16.44	16.44
144 (U-NII-2C)	5720	18.26	16.52
144 (U-NII-3)	5720	7.90	5.50
149	5745	29.82	25.62
157	5785	27.36	22.26
165	5825	31.50	24.42

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.08	18.96
40	5200	33.80	34.30
48	5240	21.00	19.50
52	5260	19.08	19.08
60	5300	22.20	20.46
64	5320	19.02	18.90
100	5500	18.96	18.96
116	5580	21.54	21.00
140	5700	18.84	18.90
144 (U-NII-2C)	5720	18.08	16.10
144 (U-NII-3)	5720	7.90	5.44
149	5745	24.66	24.24
157	5785	33.40	33.40
165	5825	25.62	23.34

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.68	37.68
46	5230	38.40	38.16
54	5270	38.64	38.40
62	5310	37.80	37.92
102	5510	37.80	37.80
110	5550	38.40	38.64
134	5670	37.56	37.80
142 (U-NII-2C)	5710	42.12	44.76
142 (U-NII-3)	5710	10.44	12.96
151	5755	47.76	43.56
159	5795	64.44	63.36

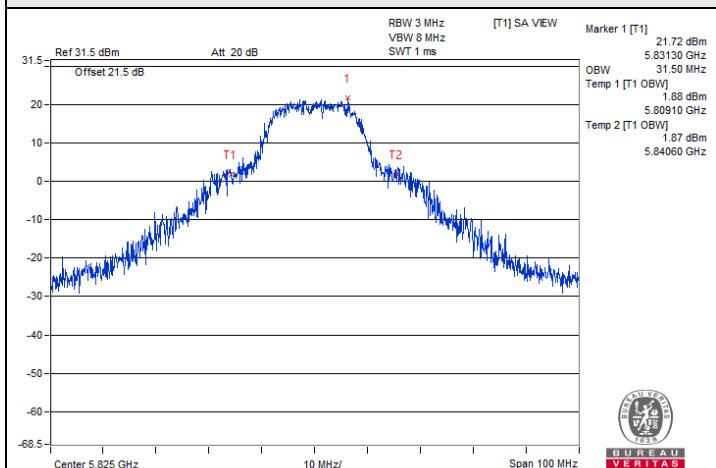
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
58	5290	77.04	77.28
106	5530	76.80	77.04
122	5610	77.28	77.04
138 (U-NII-2C)	5690	75.32	74.36
138 (U-NII-3)	5690	4.36	3.88
155	5775	77.28	77.28

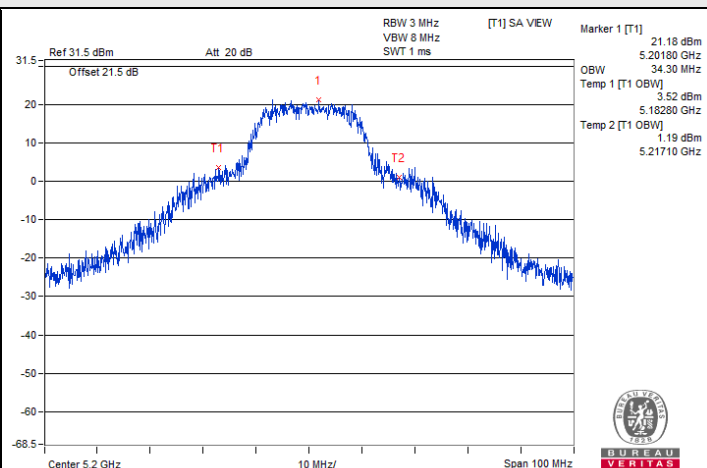
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
114	5570	155.04	155.04

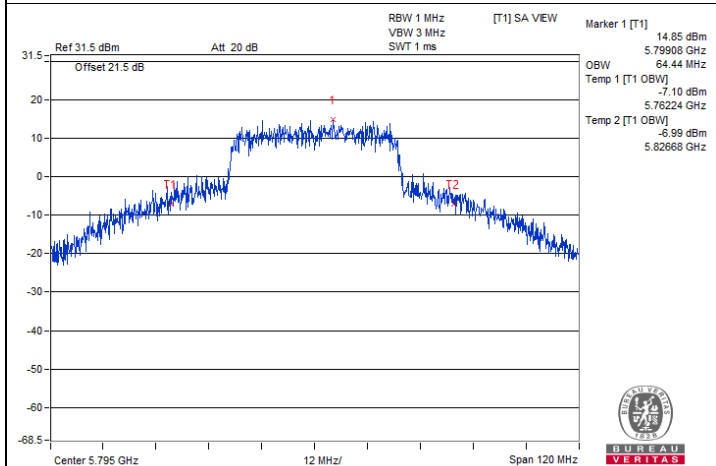
Spectrum Plot of Maximum Value



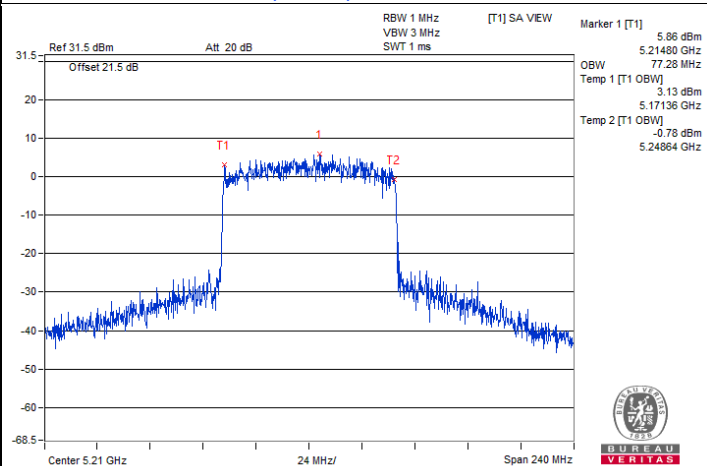
802.11a / Chain 0 : CH 165



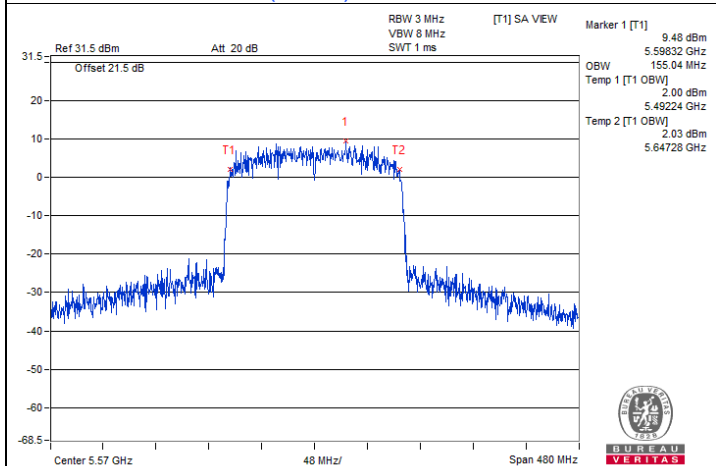
802.11ax (HE20) / Chain 1 : CH 40



802.11ax (HE40) / Chain 0 : CH 159

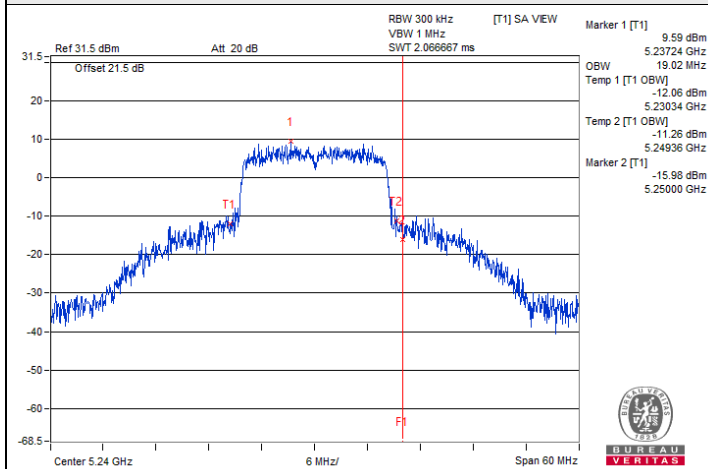


802.11ax (HE80) / Chain 0 : CH 42

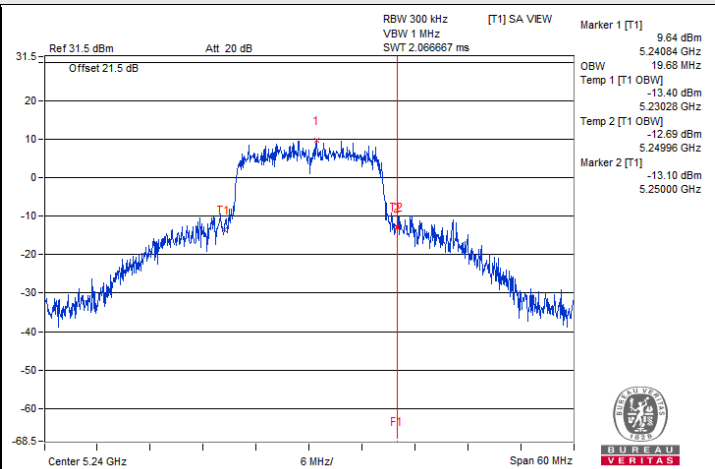


802.11ax (HE160) / Chain 0 : CH 114

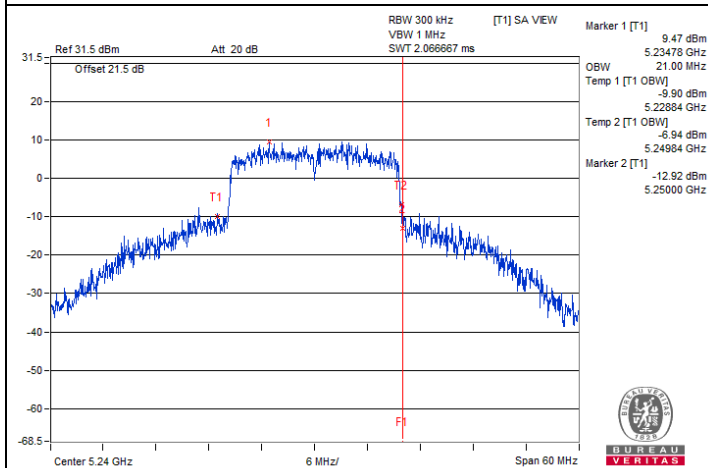
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



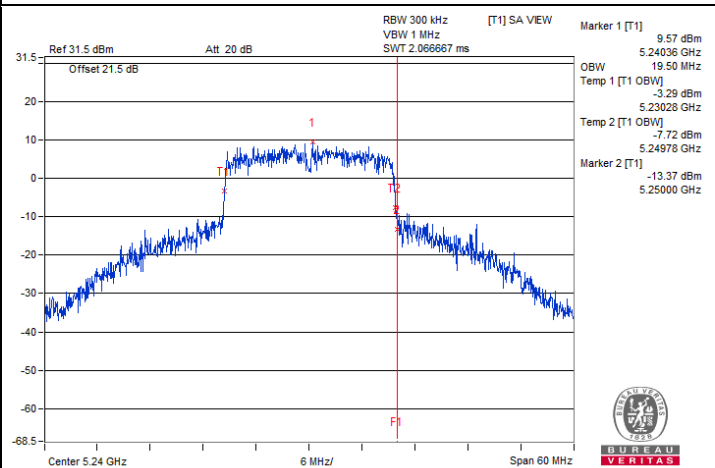
802.11a / Chain 0 : CH 48



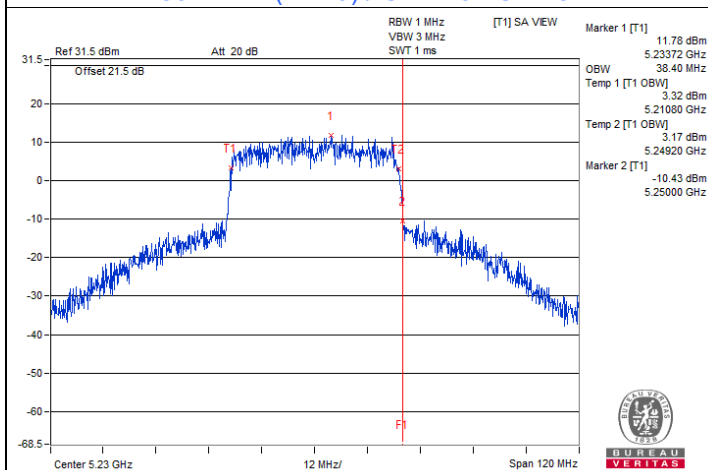
802.11a / Chain 1 : CH 48



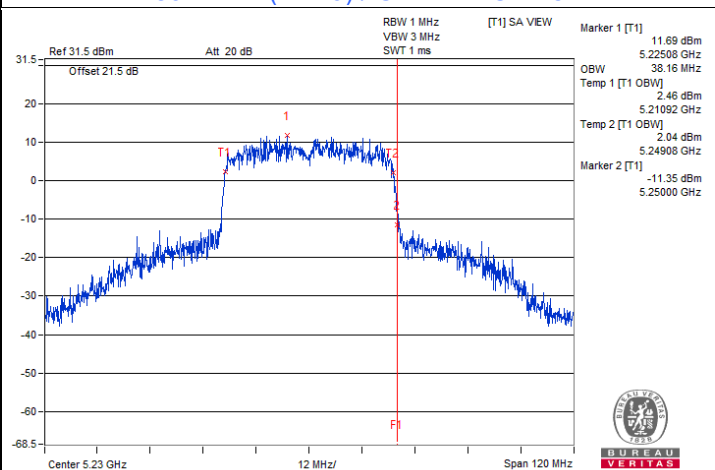
802.11ax (HE20) / Chain 0 : CH 48



802.11ax (HE20) / Chain 1 : CH 48

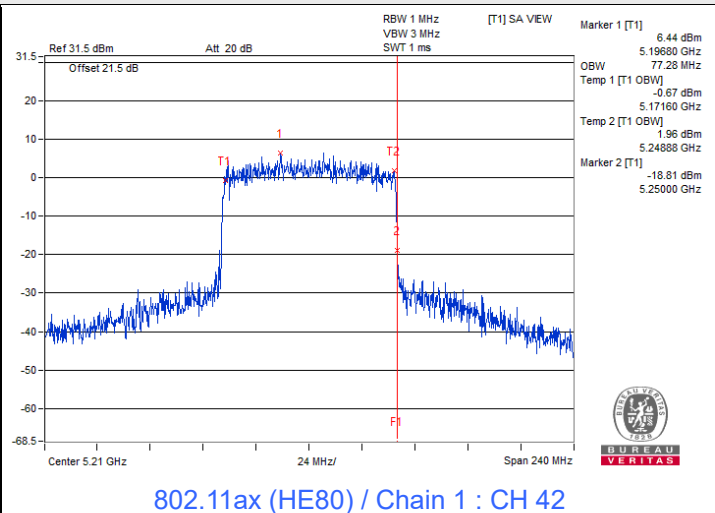
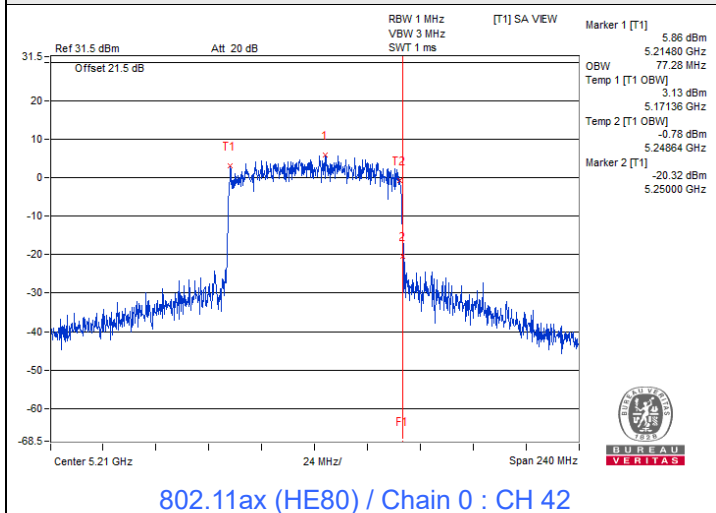


802.11ax (HE40) / Chain 0 : CH 46

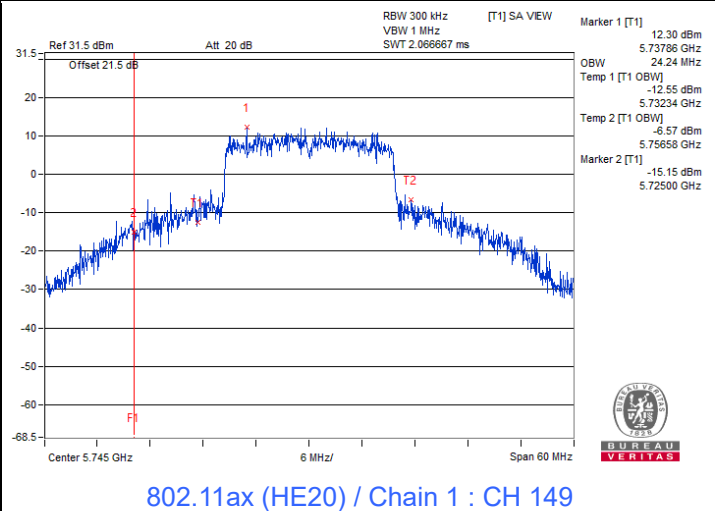
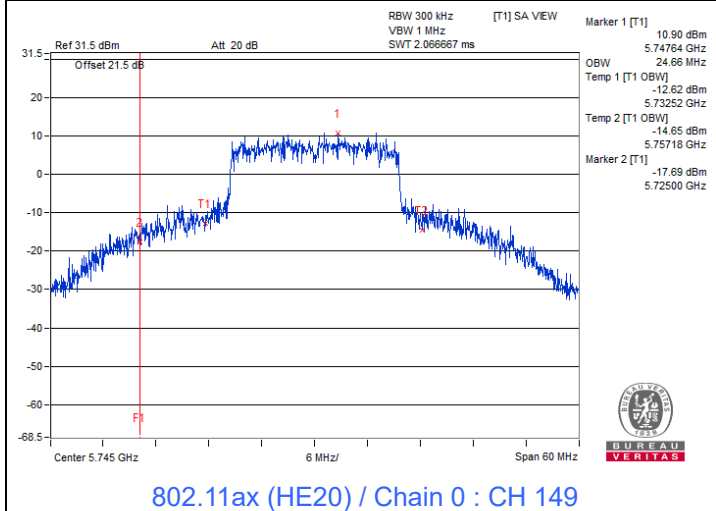
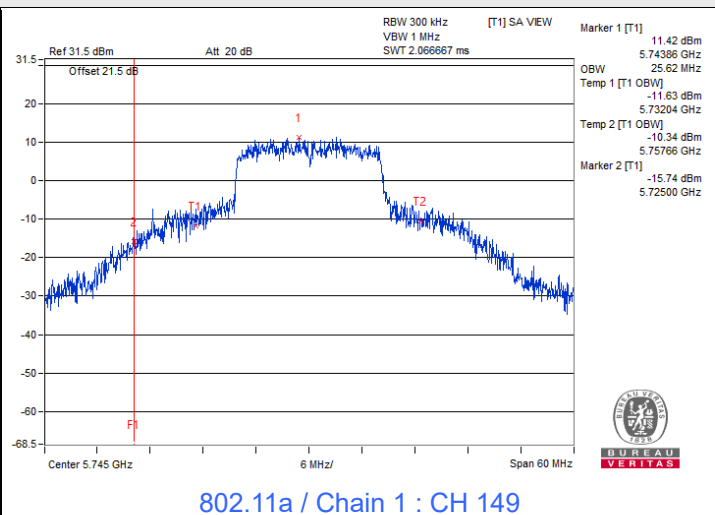
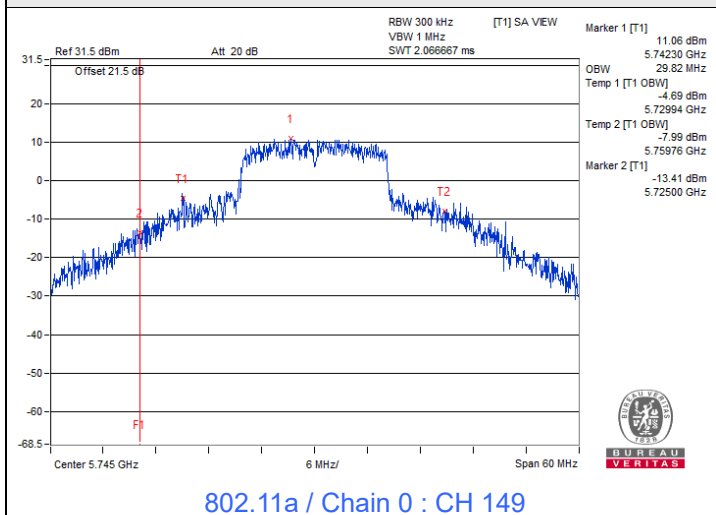


802.11ax (HE40) / Chain 1 : CH 46

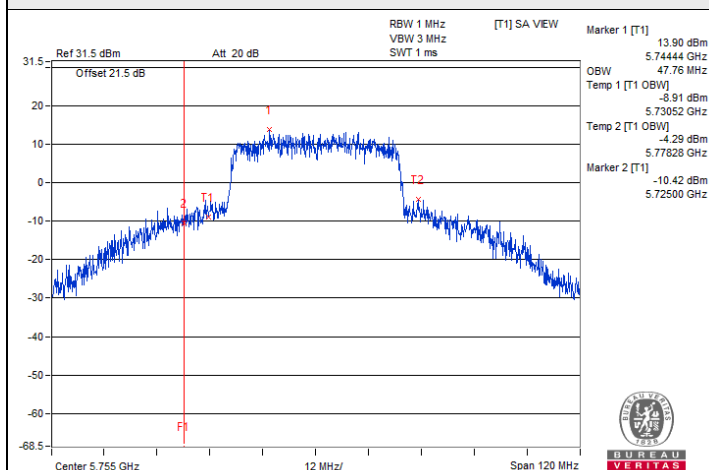
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



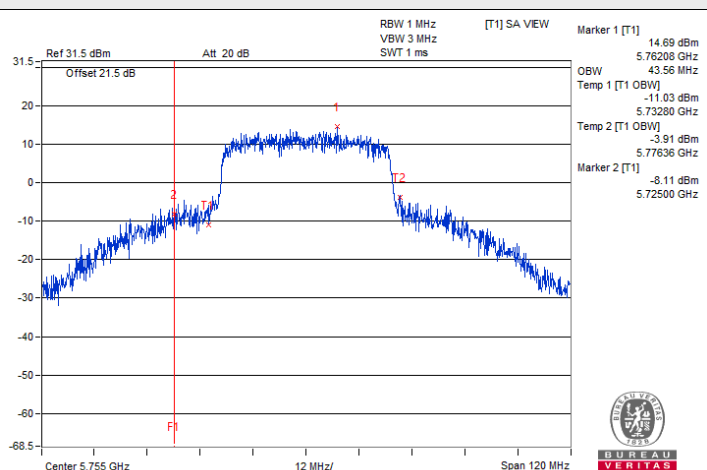
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C)



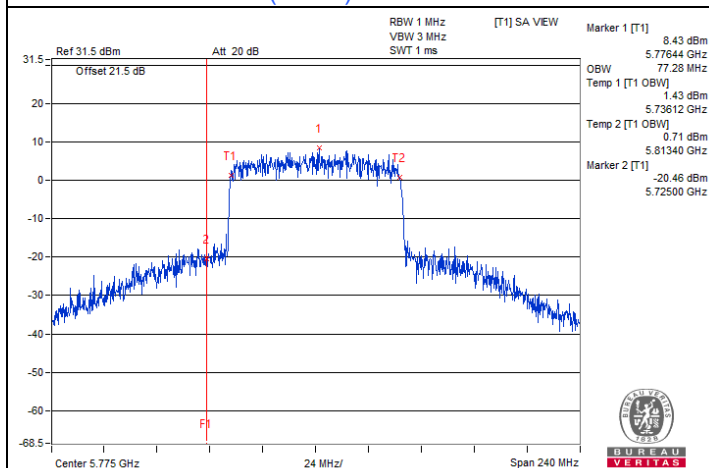
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



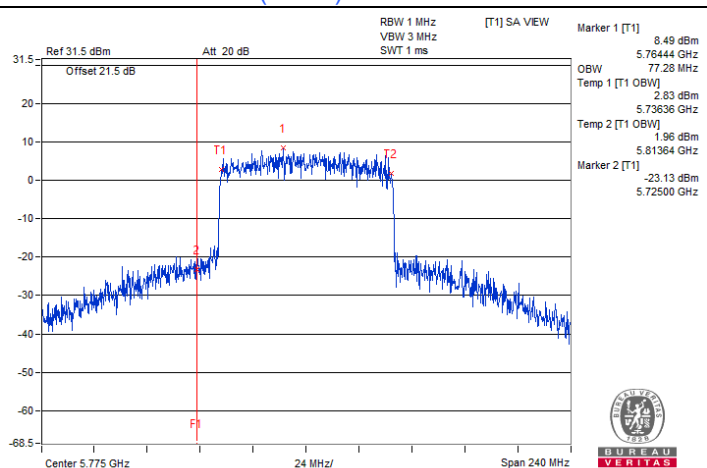
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151



802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155

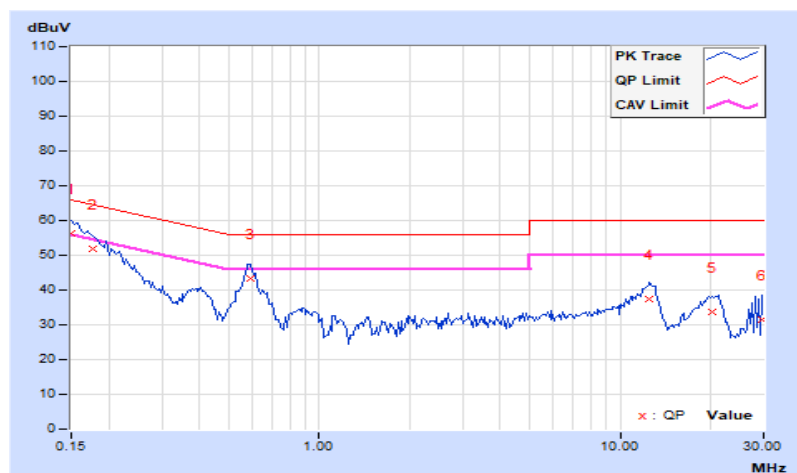
7.6 AC Power Conducted Emissions

RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	10.01	46.31	32.86	56.32	42.87	66.00	56.00	-9.68	-13.13
2	0.17734	10.02	41.83	28.59	51.85	38.61	64.61	54.61	-12.76	-16.00
3	0.59141	10.03	33.23	28.11	43.26	38.14	56.00	46.00	-12.74	-7.86
4	12.52344	10.65	26.84	22.55	37.49	33.20	60.00	50.00	-22.51	-16.80
5	20.19531	11.06	22.53	18.04	33.59	29.10	60.00	50.00	-26.41	-20.90
6	29.74609	11.59	19.85	11.04	31.44	22.63	60.00	50.00	-28.56	-27.37

Remarks:

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

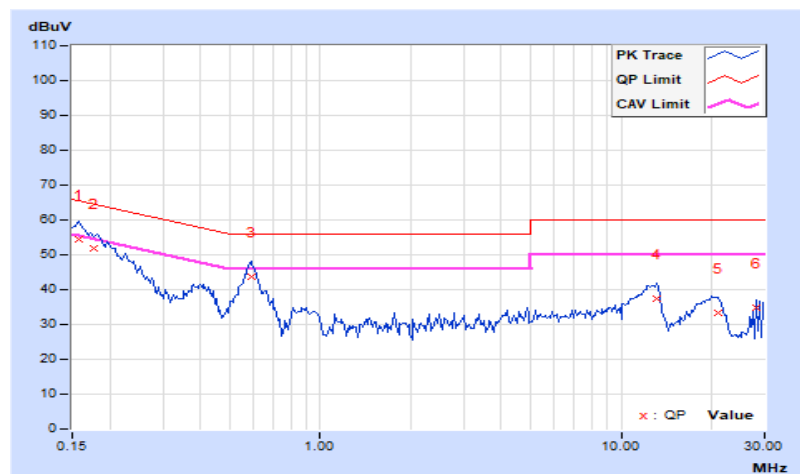


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	0.15781	10.01	44.52	30.78	54.53	40.79	65.58	55.58	-11.05	-14.79
2	0.17734	10.01	41.81	28.95	51.82	38.96	64.61	54.61	-12.79	-15.65
3	0.59141	10.02	33.73	28.89	43.75	38.91	56.00	46.00	-12.25	-7.09
4	13.10938	10.53	26.71	22.18	37.24	32.71	60.00	50.00	-22.76	-17.29
5	21.12891	10.81	22.57	18.16	33.38	28.97	60.00	50.00	-26.62	-21.03
6	28.26563	11.07	23.63	10.25	34.70	21.32	60.00	50.00	-25.30	-28.68

Remarks:

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



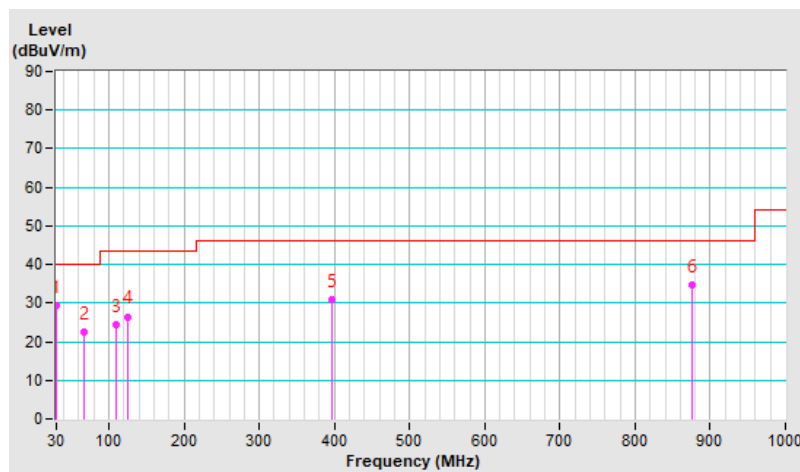
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 72 % RH
Tested By	Andy Ho		

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	30.95	29.3 QP	40.0	-10.7	1.00 H	360	43.2	-13.9
2	66.54	22.6 QP	40.0	-17.4	2.00 H	2	37.0	-14.4
3	108.81	24.4 QP	43.5	-19.1	4.00 H	261	39.9	-15.5
4	125.01	26.5 QP	43.5	-17.0	3.00 H	226	40.5	-14.0
5	395.88	30.8 QP	46.0	-15.2	1.00 H	306	40.3	-9.5
6	875.02	34.8 QP	46.0	-11.2	1.00 H	233	35.3	-0.5

Remarks:

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

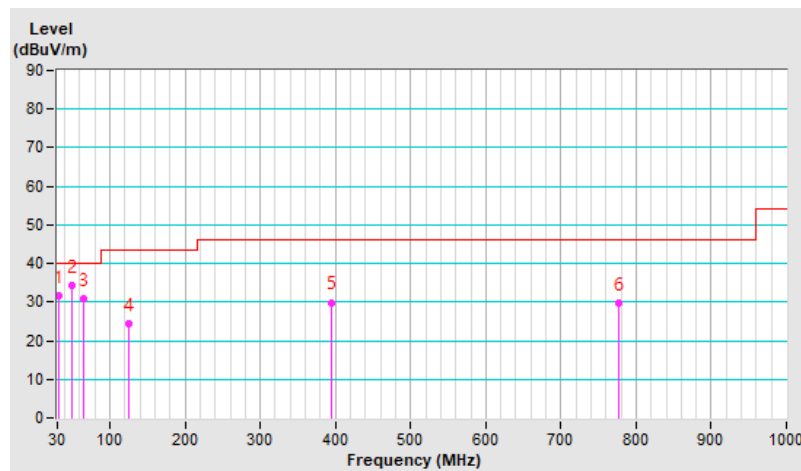


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 72 % RH
Tested By	Andy Ho		

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	31.04	31.6 QP	40.0	-8.4	1.00 V	301	45.5	-13.9
2	49.50	34.4 QP	40.0	-5.6	1.00 V	276	47.1	-12.7
3	64.82	30.7 QP	40.0	-9.3	2.00 V	6	45.1	-14.4
4	125.01	24.4 QP	43.5	-19.1	1.00 V	360	38.4	-14.0
5	394.16	29.9 QP	46.0	-16.1	1.00 V	2	39.5	-9.6
6	776.61	29.7 QP	46.0	-16.3	2.00 V	154	30.7	-1.0

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



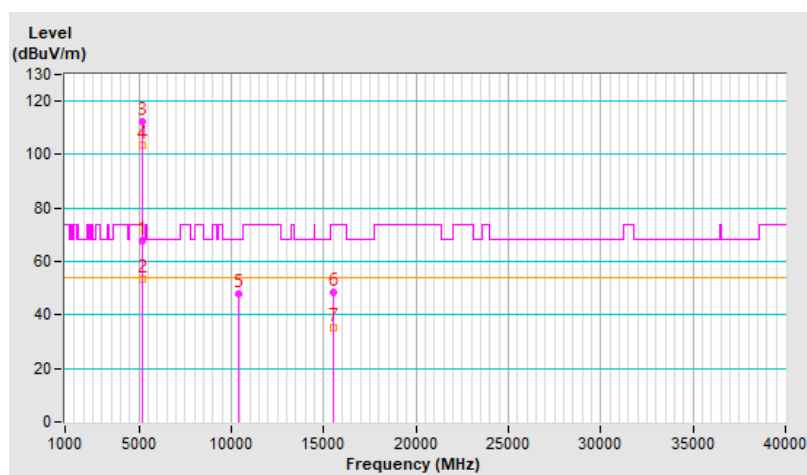
7.8 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	67.6 PK	74.0	-6.4	1.50 H	282	65.0	2.6
2	5150.00	53.2 AV	54.0	-0.8	1.50 H	282	50.6	2.6
3	*5180.00	112.5 PK			1.50 H	282	110.0	2.5
4	*5180.00	103.5 AV			1.50 H	282	101.0	2.5
5	#10360.00	47.9 PK	68.2	-20.3	1.00 H	182	36.7	11.2
6	15540.00	48.3 PK	74.0	-25.7	2.51 H	281	36.7	11.6
7	15540.00	35.1 AV	54.0	-18.9	2.51 H	281	23.5	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.

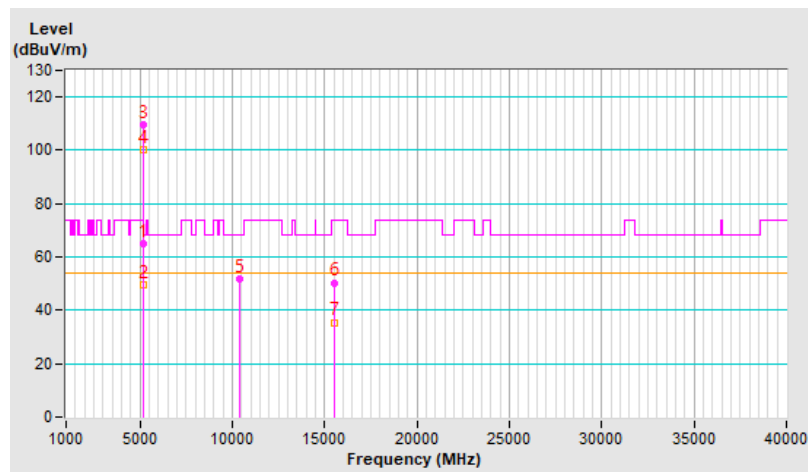


RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.8 PK	74.0	-9.2	3.50 V	260	62.2	2.6
2	5150.00	49.8 AV	54.0	-4.2	3.50 V	260	47.2	2.6
3	*5180.00	109.6 PK			3.50 V	260	107.1	2.5
4	*5180.00	100.2 AV			3.50 V	260	97.7	2.5
5	#10360.00	51.9 PK	68.2	-16.3	1.51 V	310	40.7	11.2
6	15540.00	50.4 PK	74.0	-23.6	1.26 V	227	38.8	11.6
7	15540.00	35.5 AV	54.0	-18.5	1.26 V	227	23.9	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.

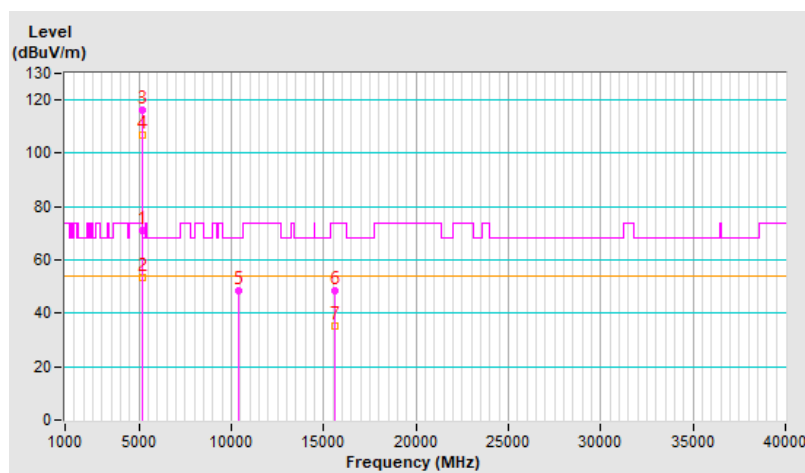


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	71.0 PK	74.0	-3.0	1.12 H	291	68.4	2.6
2	5150.00	53.4 AV	54.0	-0.6	1.12 H	291	50.8	2.6
3	*5200.00	116.2 PK			1.12 H	291	113.6	2.6
4	*5200.00	106.6 AV			1.12 H	291	104.0	2.6
5	#10400.00	48.2 PK	68.2	-20.0	1.05 H	182	36.8	11.4
6	15600.00	48.7 PK	74.0	-25.3	2.54 H	280	37.3	11.4
7	15600.00	35.2 AV	54.0	-18.8	2.54 H	280	23.8	11.4

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.

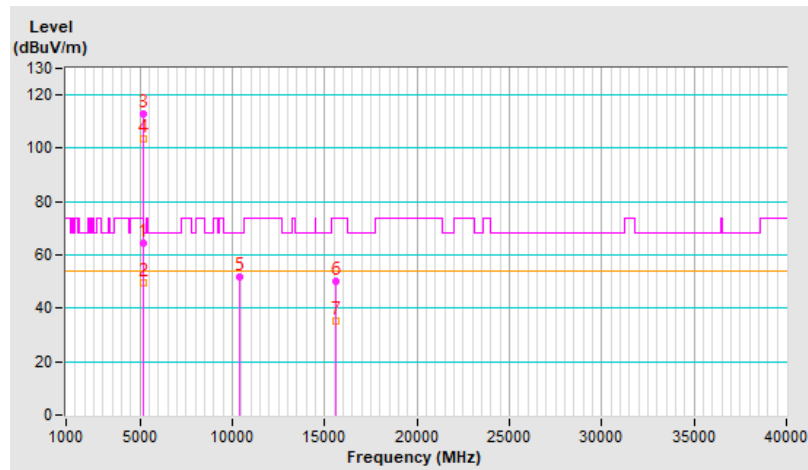


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.3 PK	74.0	-9.7	3.53 V	269	61.7	2.6
2	5150.00	49.7 AV	54.0	-4.3	3.53 V	269	47.1	2.6
3	*5200.00	112.9 PK			3.53 V	269	110.3	2.6
4	*5200.00	103.5 AV			3.53 V	269	100.9	2.6
5	#10400.00	51.7 PK	68.2	-16.5	1.55 V	314	40.3	11.4
6	15600.00	50.2 PK	74.0	-23.8	1.27 V	238	38.8	11.4
7	15600.00	35.2 AV	54.0	-18.8	1.27 V	238	23.8	11.4

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.

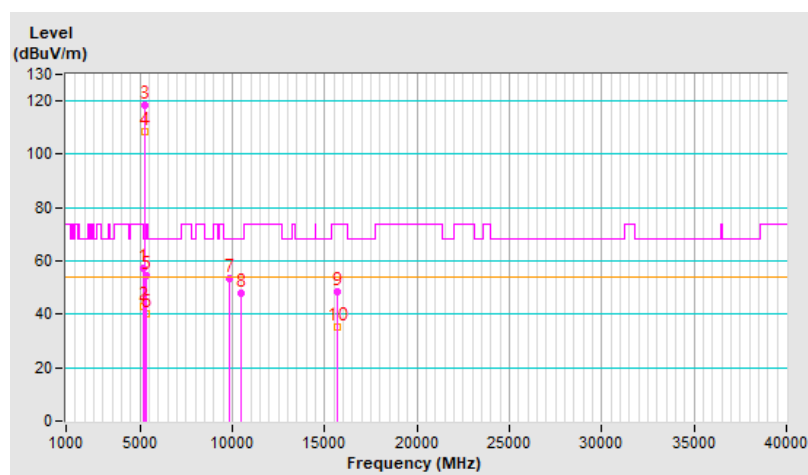


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	57.1 PK	74.0	-16.9	1.00 H	292	54.5	2.6
2	5150.00	43.1 AV	54.0	-10.9	1.00 H	292	40.5	2.6
3	*5240.00	118.3 PK			1.00 H	292	116.0	2.3
4	*5240.00	108.5 AV			1.00 H	292	106.2	2.3
5	5350.00	54.3 PK	74.0	-19.7	1.00 H	292	51.8	2.5
6	5350.00	40.0 AV	54.0	-14.0	1.00 H	292	37.5	2.5
7	#9808.00	53.2 PK	68.2	-15.0	2.98 H	156	42.0	11.2
8	#10480.00	48.1 PK	68.2	-20.1	1.00 H	167	36.4	11.7
9	15720.00	48.7 PK	74.0	-25.3	2.51 H	274	36.6	12.1
10	15720.00	35.1 AV	54.0	-18.9	2.51 H	274	23.0	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.

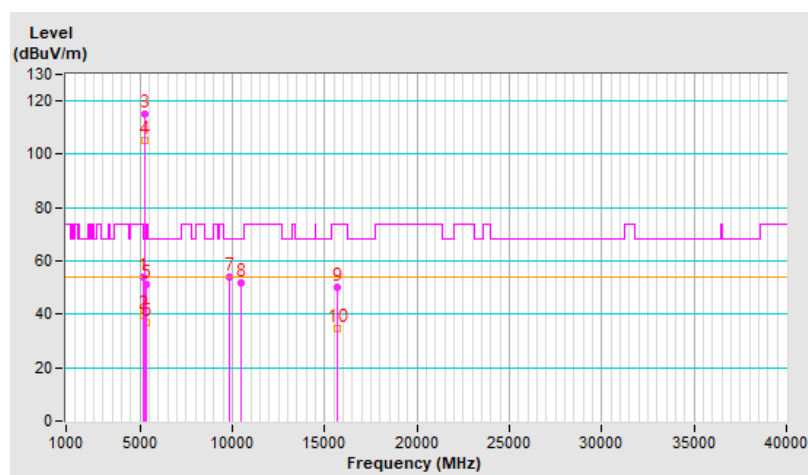


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	53.8 PK	74.0	-20.2	3.51 V	277	51.2	2.6
2	5150.00	39.7 AV	54.0	-14.3	3.51 V	277	37.1	2.6
3	*5240.00	115.1 PK			3.51 V	277	112.8	2.3
4	*5240.00	105.4 AV			3.51 V	277	103.1	2.3
5	5350.00	51.0 PK	74.0	-23.0	3.51 V	277	48.5	2.5
6	5350.00	36.8 AV	54.0	-17.2	3.51 V	277	34.3	2.5
7	#9808.00	54.2 PK	68.2	-14.0	3.01 V	353	43.0	11.2
8	#10480.00	51.6 PK	68.2	-16.6	1.50 V	324	39.9	11.7
9	15720.00	50.1 PK	74.0	-23.9	1.24 V	239	38.0	12.1
10	15720.00	34.9 AV	54.0	-19.1	1.24 V	239	22.8	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.

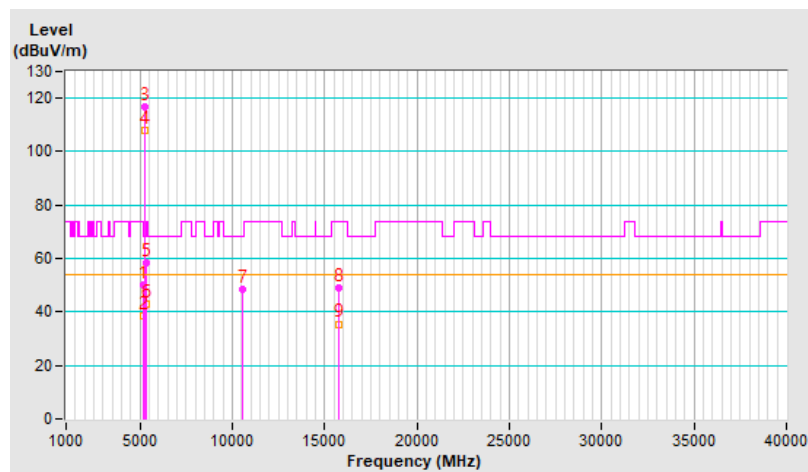


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	50.1 PK	74.0	-23.9	1.10 H	294	47.5	2.6
2	5150.00	38.7 AV	54.0	-15.3	1.10 H	294	36.1	2.6
3	*5260.00	117.0 PK			1.10 H	294	114.8	2.2
4	*5260.00	107.9 AV			1.10 H	294	105.7	2.2
5	5350.00	58.4 PK	74.0	-15.6	1.10 H	294	55.9	2.5
6	5350.00	42.7 AV	54.0	-11.3	1.10 H	294	40.2	2.5
7	#10520.00	48.4 PK	68.2	-19.8	1.06 H	162	36.7	11.7
8	15780.00	48.8 PK	74.0	-25.2	2.54 H	286	36.7	12.1
9	15780.00	35.5 AV	54.0	-18.5	2.54 H	286	23.4	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.

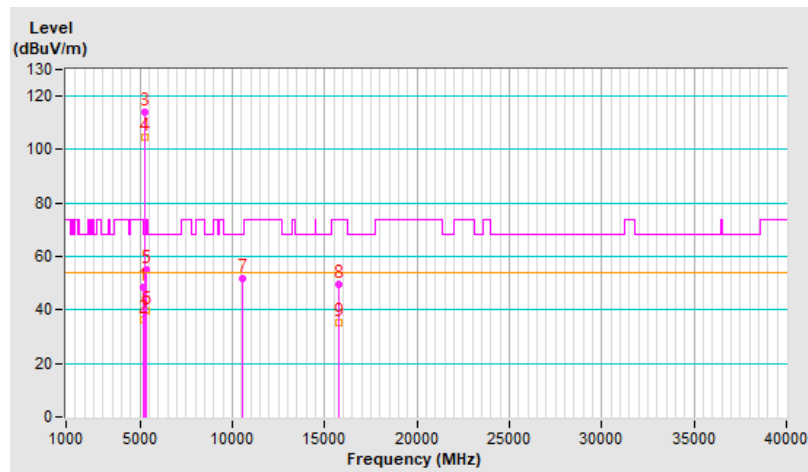


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	48.2 PK	74.0	-25.8	3.47 V	289	45.6	2.6
2	5150.00	36.4 AV	54.0	-17.6	3.47 V	289	33.8	2.6
3	*5260.00	113.8 PK			3.47 V	289	111.6	2.2
4	*5260.00	104.8 AV			3.47 V	289	102.6	2.2
5	5350.00	55.1 PK	74.0	-18.9	3.47 V	289	52.6	2.5
6	5350.00	39.5 AV	54.0	-14.5	3.47 V	289	37.0	2.5
7	#10520.00	51.8 PK	68.2	-16.4	1.55 V	321	40.1	11.7
8	15780.00	49.5 PK	74.0	-24.5	1.20 V	242	37.4	12.1
9	15780.00	35.0 AV	54.0	-19.0	1.20 V	242	22.9	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.

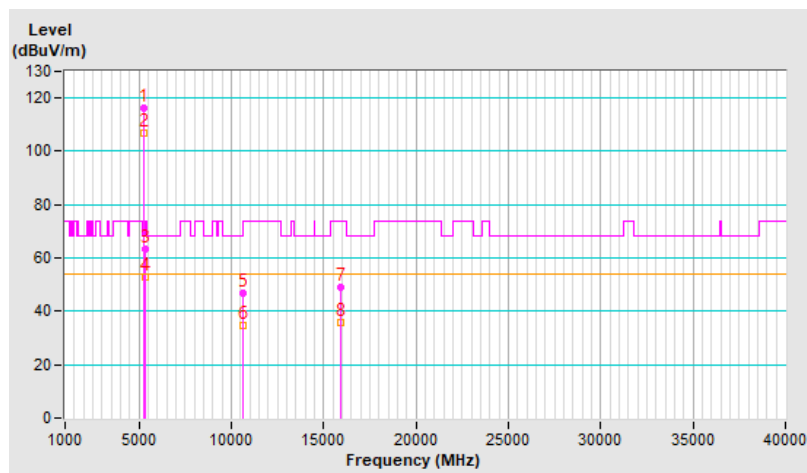


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	116.1 PK			1.00 H	287	113.9	2.2
2	*5300.00	106.7 AV			1.00 H	287	104.5	2.2
3	5350.00	63.1 PK	74.0	-10.9	1.00 H	287	60.6	2.5
4	5350.00	53.0 AV	54.0	-1.0	1.00 H	287	50.5	2.5
5	10600.00	46.9 PK	74.0	-27.1	1.27 H	360	35.6	11.3
6	10600.00	34.5 AV	54.0	-19.5	1.27 H	360	23.2	11.3
7	15900.00	49.1 PK	74.0	-24.9	2.54 H	289	37.5	11.6
8	15900.00	35.6 AV	54.0	-18.4	2.54 H	289	24.0	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.

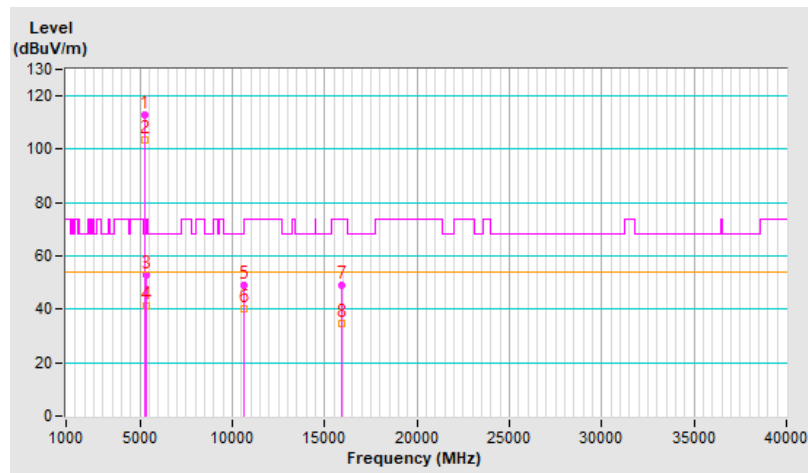


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	112.8 PK			3.50 V	276	110.6	2.2
2	*5300.00	103.5 AV			3.50 V	276	101.3	2.2
3	5350.00	53.1 PK	74.0	-20.9	3.50 V	276	50.6	2.5
4	5350.00	41.2 AV	54.0	-12.8	3.50 V	276	38.7	2.5
5	10600.00	49.2 PK	74.0	-24.8	1.16 V	23	37.9	11.3
6	10600.00	40.1 AV	54.0	-13.9	1.16 V	23	28.8	11.3
7	15900.00	49.0 PK	74.0	-25.0	1.26 V	227	37.4	11.6
8	15900.00	34.5 AV	54.0	-19.5	1.26 V	227	22.9	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.

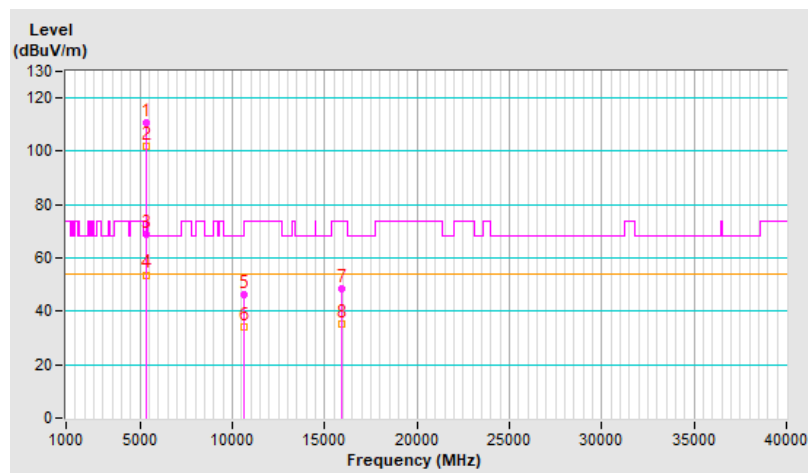


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	110.7 PK			1.14 H	279	108.4	2.3
2	*5320.00	102.0 AV			1.14 H	279	99.7	2.3
3	5350.00	68.9 PK	74.0	-5.1	1.14 H	279	66.4	2.5
4	5350.00	53.7 AV	54.0	-0.3	1.14 H	279	51.2	2.5
5	10640.00	46.5 PK	74.0	-27.5	1.33 H	360	35.1	11.4
6	10640.00	34.2 AV	54.0	-19.8	1.33 H	360	22.8	11.4
7	15960.00	48.7 PK	74.0	-25.3	2.53 H	294	37.2	11.5
8	15960.00	35.2 AV	54.0	-18.8	2.53 H	294	23.7	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.

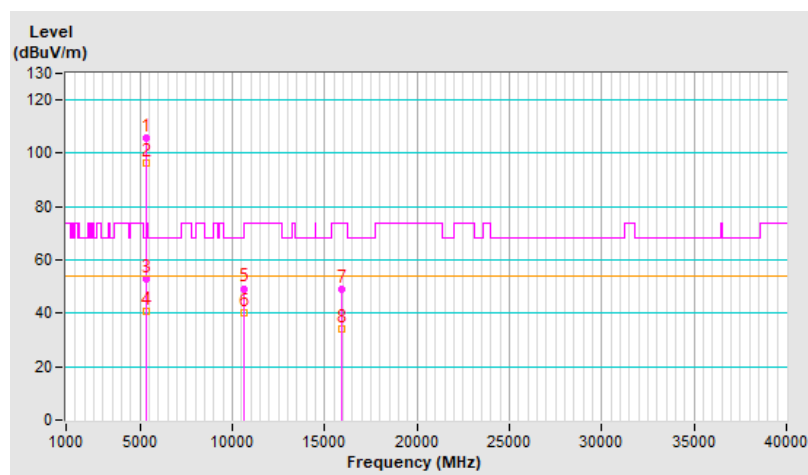


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	105.7 PK			3.58 V	239	103.4	2.3
2	*5320.00	96.5 AV			3.58 V	239	94.2	2.3
3	5350.00	52.9 PK	74.0	-21.1	3.58 V	239	50.4	2.5
4	5350.00	40.9 AV	54.0	-13.1	3.58 V	239	38.4	2.5
5	10640.00	49.3 PK	74.0	-24.7	1.11 V	7	37.9	11.4
6	10640.00	40.2 AV	54.0	-13.8	1.11 V	7	28.8	11.4
7	15960.00	48.8 PK	74.0	-25.2	1.31 V	233	37.3	11.5
8	15960.00	34.1 AV	54.0	-19.9	1.31 V	233	22.6	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.

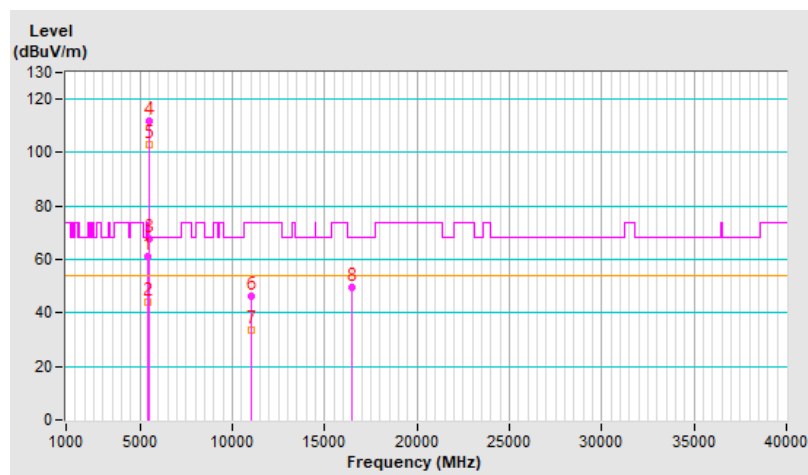


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	1.16 H	39	58.4	2.6
2	5460.00	44.2 AV	54.0	-9.8	1.16 H	39	41.6	2.6
3	#5470.00	67.8 PK	68.2	-0.4	1.16 H	39	65.2	2.6
4	*5500.00	111.6 PK			1.16 H	39	108.9	2.7
5	*5500.00	102.8 AV			1.16 H	39	100.1	2.7
6	11000.00	46.0 PK	74.0	-28.0	1.29 H	360	33.9	12.1
7	11000.00	33.8 AV	54.0	-20.2	1.29 H	360	21.7	12.1
8	#16500.00	49.4 PK	68.2	-18.8	2.50 H	290	34.8	14.6

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.

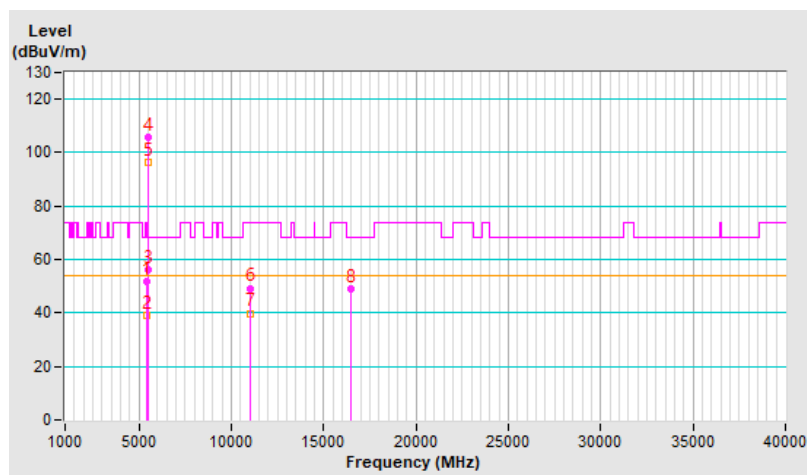


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	51.8 PK	74.0	-22.2	3.71 V	74	49.2	2.6
2	5460.00	39.1 AV	54.0	-14.9	3.71 V	74	36.5	2.6
3	#5470.00	56.3 PK	68.2	-11.9	3.71 V	74	53.7	2.6
4	*5500.00	105.6 PK			3.71 V	74	102.9	2.7
5	*5500.00	96.6 AV			3.71 V	74	93.9	2.7
6	11000.00	49.3 PK	74.0	-24.7	1.16 V	23	37.2	12.1
7	11000.00	39.9 AV	54.0	-14.1	1.16 V	23	27.8	12.1
8	#16500.00	48.9 PK	68.2	-19.3	1.33 V	222	34.3	14.6

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.

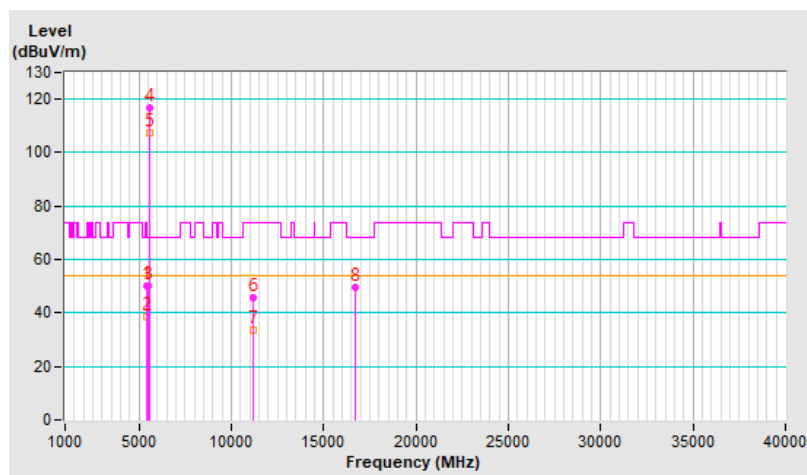


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	50.1 PK	74.0	-23.9	1.27 H	46	47.5	2.6
2	5460.00	38.4 AV	54.0	-15.6	1.27 H	46	35.8	2.6
3	#5470.00	50.3 PK	68.2	-17.9	1.27 H	46	47.7	2.6
4	*5580.00	116.7 PK			1.27 H	46	114.0	2.7
5	*5580.00	107.2 AV			1.27 H	46	104.5	2.7
6	11160.00	45.7 PK	74.0	-28.3	1.27 H	360	33.7	12.0
7	11160.00	33.6 AV	54.0	-20.4	1.27 H	360	21.6	12.0
8	#16740.00	49.7 PK	68.2	-18.5	2.44 H	301	35.1	14.6

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.

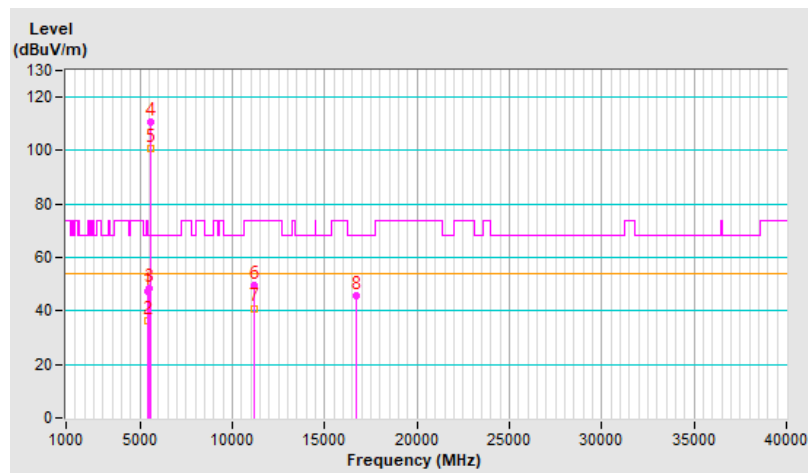


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	47.2 PK	74.0	-26.8	3.72 V	63	44.6	2.6
2	5460.00	36.1 AV	54.0	-17.9	3.72 V	63	33.5	2.6
3	#5470.00	48.4 PK	68.2	-19.8	3.72 V	63	45.8	2.6
4	*5580.00	110.7 PK			3.72 V	63	108.0	2.7
5	*5580.00	101.0 AV			3.72 V	63	98.3	2.7
6	11160.00	49.7 PK	74.0	-24.3	1.24 V	24	37.7	12.0
7	11160.00	41.0 AV	54.0	-13.0	1.24 V	24	29.0	12.0
8	#16740.00	45.8 PK	68.2	-22.4	1.52 V	237	31.2	14.6

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.

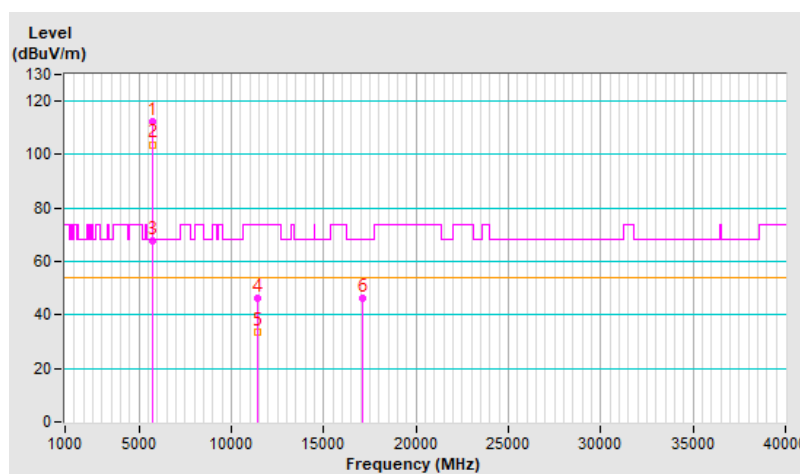


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	112.6 PK			1.00 H	46	109.8	2.8
2	*5700.00	103.8 AV			1.00 H	46	101.0	2.8
3	#5725.00	67.8 PK	68.2	-0.4	1.00 H	46	64.9	2.9
4	11400.00	46.2 PK	74.0	-27.8	1.33 H	360	34.1	12.1
5	11400.00	33.8 AV	54.0	-20.2	1.33 H	360	21.7	12.1
6	#17100.00	46.1 PK	68.2	-22.1	1.40 H	185	29.3	16.8

Remarks:

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

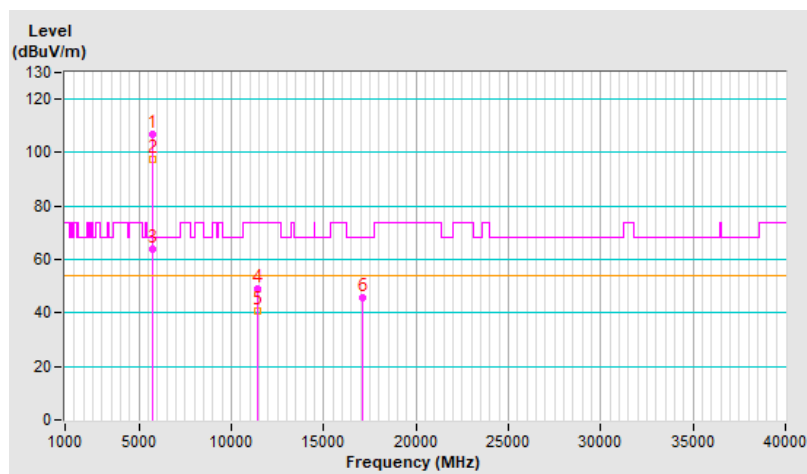


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	106.6 PK			3.75 V	51	103.8	2.8
2	*5700.00	97.6 AV			3.75 V	51	94.8	2.8
3	#5725.00	63.7 PK	68.2	-4.5	3.75 V	51	60.8	2.9
4	11400.00	49.2 PK	74.0	-24.8	1.24 V	23	37.1	12.1
5	11400.00	40.5 AV	54.0	-13.5	1.24 V	23	28.4	12.1
6	#17100.00	45.9 PK	68.2	-22.3	1.48 V	238	29.1	16.8

Remarks:

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

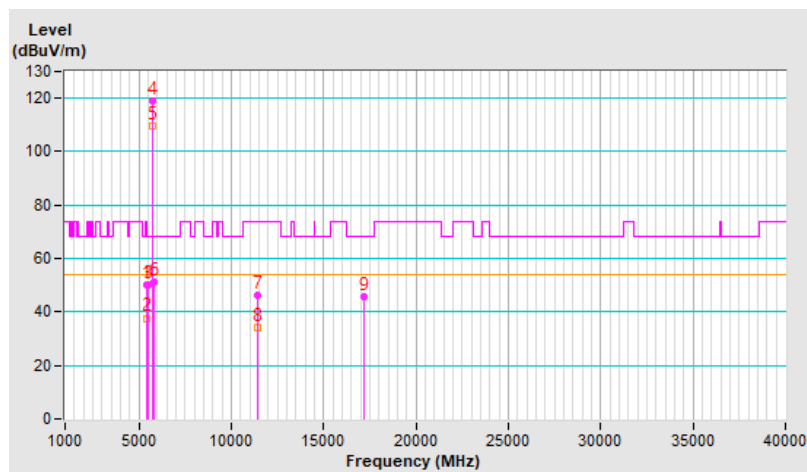


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	50.0 PK	74.0	-24.0	1.00 H	33	47.4	2.6
2	5460.00	37.7 AV	54.0	-16.3	1.00 H	33	35.1	2.6
3	#5470.00	50.1 PK	68.2	-18.1	1.00 H	33	47.5	2.6
4	*5720.00	119.2 PK			1.00 H	33	116.3	2.9
5	*5720.00	109.5 AV			1.00 H	33	106.6	2.9
6	#5850.00	51.2 PK	68.2	-17.0	1.00 H	33	47.8	3.4
7	11440.00	46.3 PK	74.0	-27.7	1.28 H	360	34.1	12.2
8	11440.00	34.0 AV	54.0	-20.0	1.28 H	360	21.8	12.2
9	#17160.00	45.6 PK	68.2	-22.6	1.43 H	199	28.9	16.7

Remarks:

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

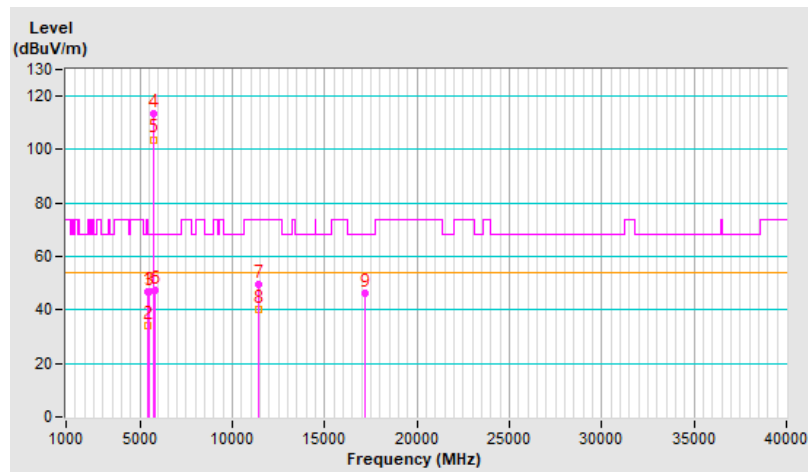


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	46.7 PK	74.0	-27.3	3.78 V	59	44.1	2.6
2	5460.00	34.2 AV	54.0	-19.8	3.78 V	59	31.6	2.6
3	#5470.00	46.9 PK	68.2	-21.3	3.78 V	59	44.3	2.6
4	*5720.00	113.5 PK			3.78 V	59	110.6	2.9
5	*5720.00	103.8 AV			3.78 V	59	100.9	2.9
6	#5850.00	47.2 PK	68.2	-21.0	3.78 V	59	43.8	3.4
7	11440.00	49.4 PK	74.0	-24.6	1.18 V	14	37.2	12.2
8	11440.00	40.4 AV	54.0	-13.6	1.18 V	14	28.2	12.2
9	#17160.00	46.0 PK	68.2	-22.2	1.54 V	224	29.3	16.7

Remarks:

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

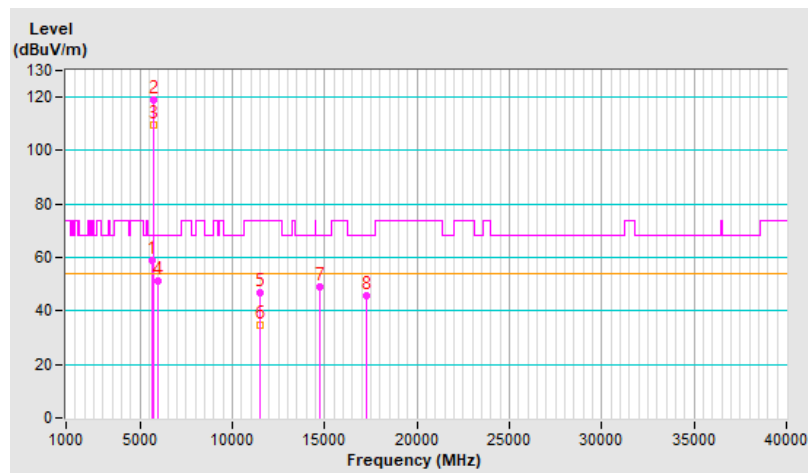


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	#5644.45	58.8 PK	68.2	-9.4	1.13 H	36	56.0	2.8
2	*5745.00	119.0 PK			1.13 H	36	116.0	3.0
3	*5745.00	109.6 AV			1.13 H	36	106.6	3.0
4	#5974.36	51.0 PK	68.2	-17.2	1.13 H	36	47.6	3.4
5	11490.00	46.7 PK	74.0	-27.3	1.22 H	360	34.5	12.2
6	11490.00	34.5 AV	54.0	-19.5	1.22 H	360	22.3	12.2
7	#14712.00	48.9 PK	68.2	-19.3	1.15 H	141	34.1	14.8
8	#17235.00	45.7 PK	68.2	-22.5	1.48 H	203	29.0	16.7

Remarks:

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

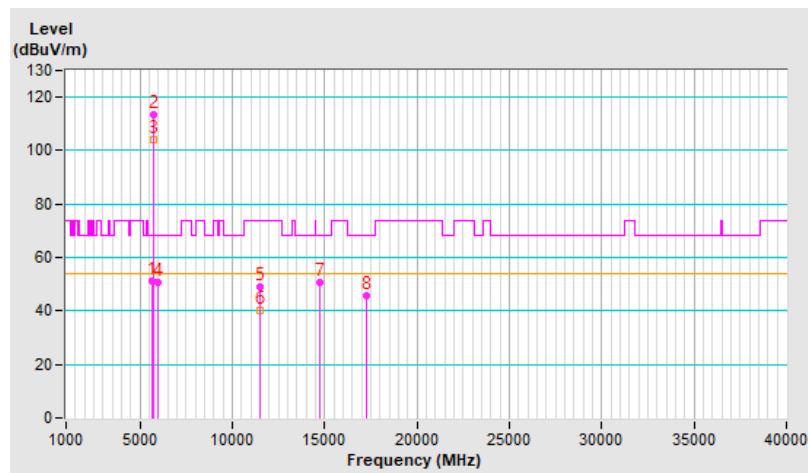


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.21	51.2 PK	68.2	-17.0	3.91 V	109	48.4	2.8
2	*5745.00	113.7 PK			3.91 V	109	110.7	3.0
3	*5745.00	104.3 AV			3.91 V	109	101.3	3.0
4	#6001.75	50.6 PK	68.2	-17.6	3.91 V	109	47.2	3.4
5	11490.00	48.9 PK	74.0	-25.1	1.16 V	20	36.7	12.2
6	11490.00	40.0 AV	54.0	-14.0	1.16 V	20	27.8	12.2
7	#14712.00	50.8 PK	68.2	-17.4	1.07 V	6	36.0	14.8
8	#17235.00	45.6 PK	68.2	-22.6	1.51 V	211	28.9	16.7

Remarks:

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

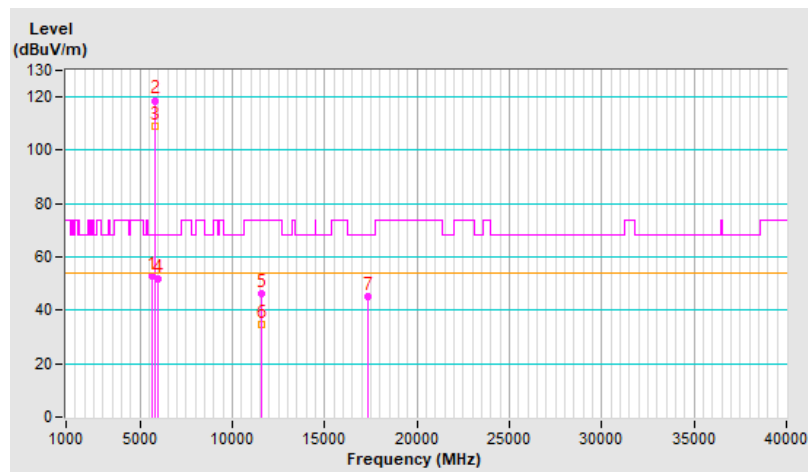


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.99	52.8 PK	68.2	-15.4	1.01 H	35	50.1	2.7
2	*5785.00	118.7 PK			1.01 H	35	115.4	3.3
3	*5785.00	108.9 AV			1.01 H	35	105.6	3.3
4	#5957.59	51.6 PK	68.2	-16.6	1.01 H	35	48.2	3.4
5	11570.00	46.4 PK	74.0	-27.6	1.26 H	360	34.5	11.9
6	11570.00	34.5 AV	54.0	-19.5	1.26 H	360	22.6	11.9
7	#17355.00	45.2 PK	68.2	-23.0	1.50 H	213	28.4	16.8

Remarks:

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

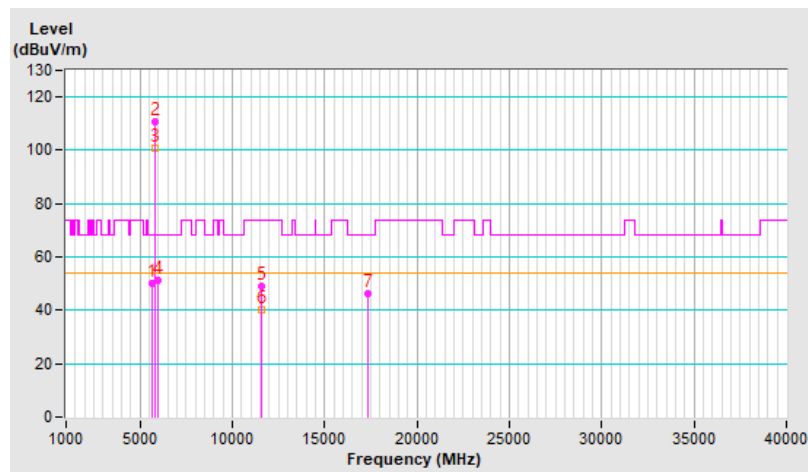


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	#5629.23	50.3 PK	68.2	-17.9	3.25 V	63	47.6	2.7
2	*5785.00	110.5 PK			3.25 V	63	107.2	3.3
3	*5785.00	101.0 AV			3.25 V	63	97.7	3.3
4	#5954.24	51.0 PK	68.2	-17.2	3.25 V	63	47.6	3.4
5	11570.00	49.2 PK	74.0	-24.8	1.14 V	30	37.3	11.9
6	11570.00	40.0 AV	54.0	-14.0	1.14 V	30	28.1	11.9
7	#17355.00	46.2 PK	68.2	-22.0	1.52 V	202	29.4	16.8

Remarks:

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

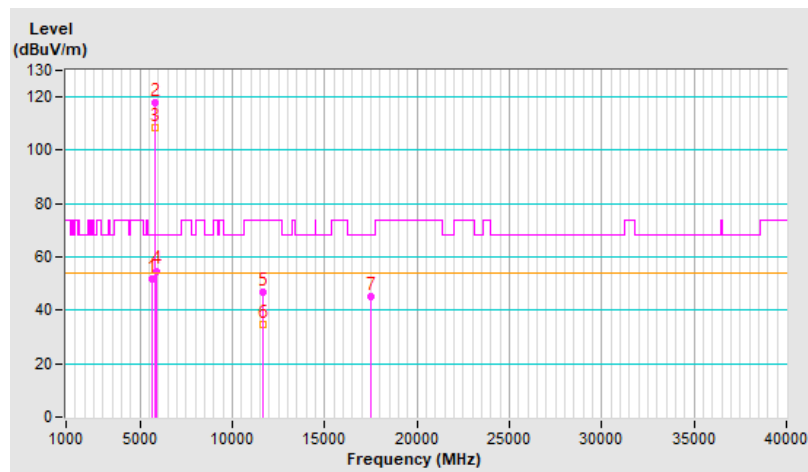


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5628.39	51.6 PK	68.2	-16.6	1.09 H	41	48.9	2.7
2	*5825.00	117.8 PK			1.09 H	41	114.4	3.4
3	*5825.00	108.7 AV			1.09 H	41	105.3	3.4
4	#5928.82	54.8 PK	68.2	-13.4	1.09 H	41	51.3	3.5
5	11650.00	46.7 PK	74.0	-27.3	1.31 H	360	35.1	11.6
6	11650.00	34.6 AV	54.0	-19.4	1.31 H	360	23.0	11.6
7	#17475.00	45.1 PK	68.2	-23.1	1.54 H	218	27.5	17.6

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.

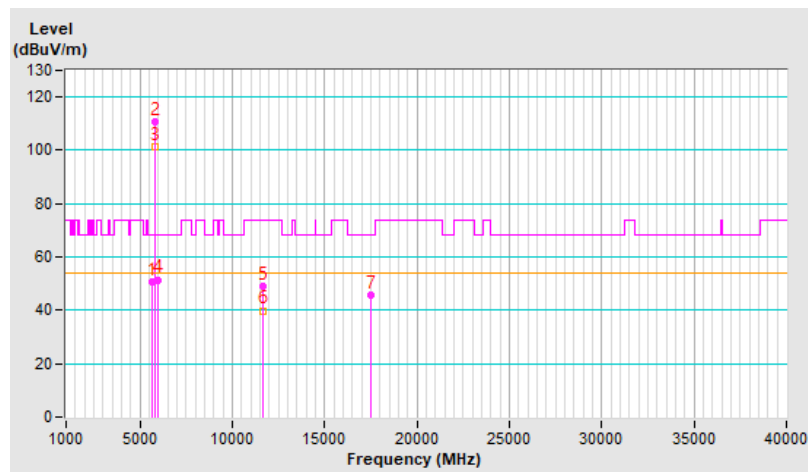


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	#5620.04	50.6 PK	68.2	-17.6	3.05 V	114	47.9	2.7
2	*5825.00	110.7 PK			3.05 V	114	107.3	3.4
3	*5825.00	101.3 AV			3.05 V	114	97.9	3.4
4	#5969.37	51.5 PK	68.2	-16.7	3.05 V	114	48.1	3.4
5	11650.00	49.0 PK	74.0	-25.0	1.12 V	25	37.4	11.6
6	11650.00	39.9 AV	54.0	-14.1	1.12 V	25	28.3	11.6
7	#17475.00	45.9 PK	68.2	-22.3	1.50 V	212	28.3	17.6

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.

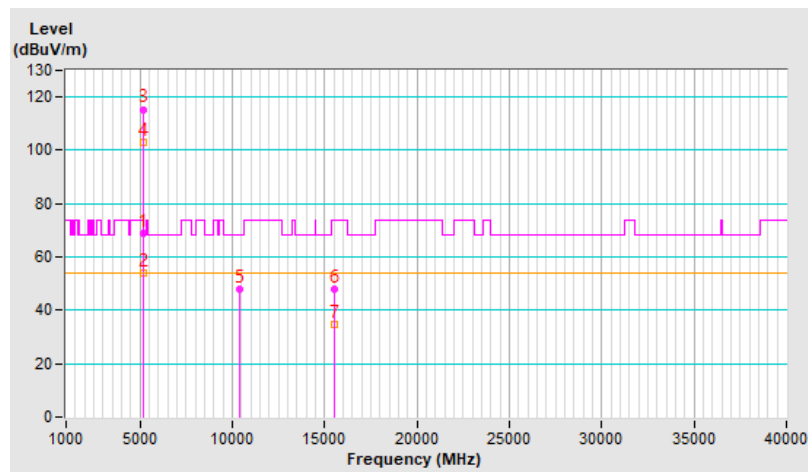


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	69.0 PK	74.0	-5.0	1.12 H	296	66.4	2.6
2	5150.00	53.9 AV	54.0	-0.1	1.12 H	296	51.3	2.6
3	*5180.00	115.4 PK			1.12 H	296	112.9	2.5
4	*5180.00	102.9 AV			1.12 H	296	100.4	2.5
5	#10360.00	47.8 PK	68.2	-20.4	1.01 H	194	36.6	11.2
6	15540.00	47.9 PK	74.0	-26.1	2.53 H	294	36.3	11.6
7	15540.00	34.9 AV	54.0	-19.1	2.53 H	294	23.3	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.

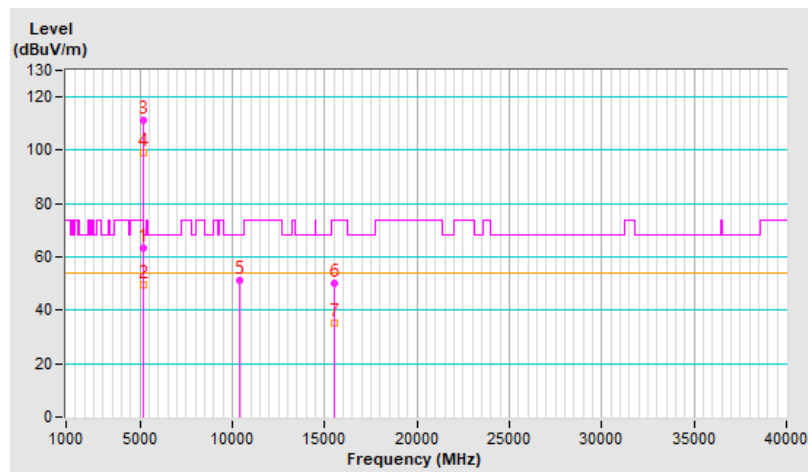


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	63.3 PK	74.0	-10.7	3.50 V	260	60.7	2.6
2	5150.00	49.4 AV	54.0	-4.6	3.50 V	260	46.8	2.6
3	*5180.00	111.4 PK			3.50 V	260	108.9	2.5
4	*5180.00	99.3 AV			3.50 V	260	96.8	2.5
5	#10360.00	51.2 PK	68.2	-17.0	1.52 V	309	40.0	11.2
6	15540.00	50.2 PK	74.0	-23.8	1.20 V	222	38.6	11.6
7	15540.00	35.3 AV	54.0	-18.7	1.20 V	222	23.7	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.

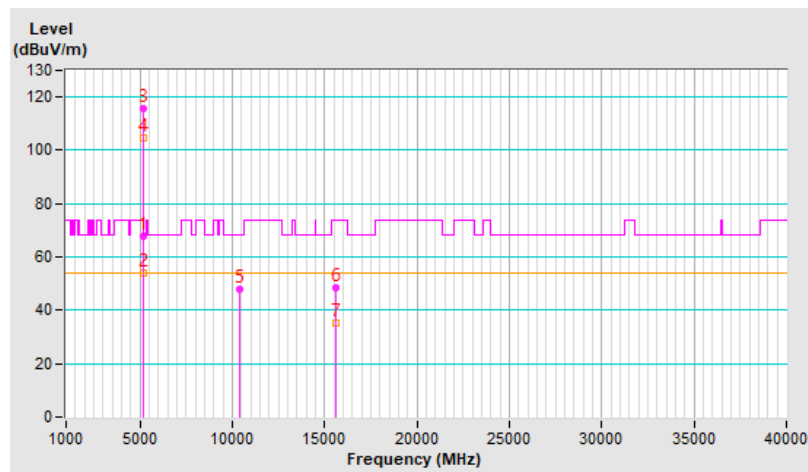


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	67.8 PK	74.0	-6.2	1.46 H	63	65.2	2.6
2	5150.00	53.9 AV	54.0	-0.1	1.46 H	63	51.3	2.6
3	*5200.00	115.6 PK			1.46 H	63	113.0	2.6
4	*5200.00	104.7 AV			1.46 H	63	102.1	2.6
5	#10400.00	47.8 PK	68.2	-20.4	1.03 H	199	36.4	11.4
6	15600.00	48.2 PK	74.0	-25.8	2.54 H	281	36.8	11.4
7	15600.00	35.0 AV	54.0	-19.0	2.54 H	281	23.6	11.4

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.

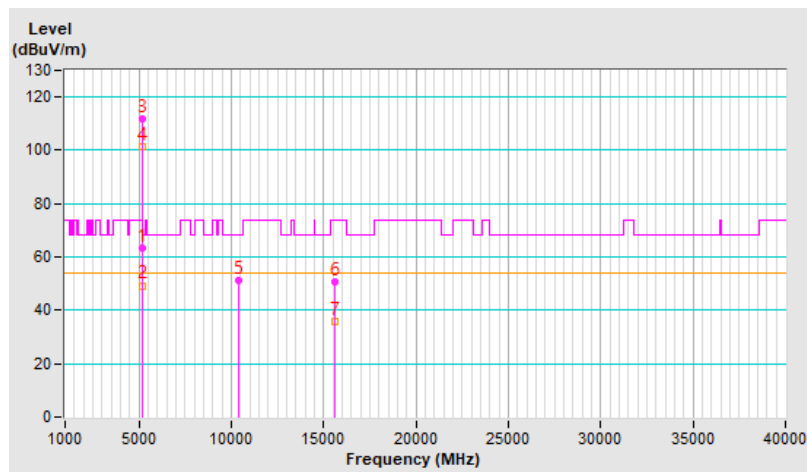


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	63.5 PK	74.0	-10.5	3.47 V	253	60.9	2.6
2	5150.00	49.3 AV	54.0	-4.7	3.47 V	253	46.7	2.6
3	*5200.00	111.6 PK			3.47 V	253	109.0	2.6
4	*5200.00	101.1 AV			3.47 V	253	98.5	2.6
5	#10400.00	51.0 PK	68.2	-17.2	1.55 V	323	39.6	11.4
6	15600.00	50.8 PK	74.0	-23.2	1.18 V	222	39.4	11.4
7	15600.00	35.8 AV	54.0	-18.2	1.18 V	222	24.4	11.4

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.

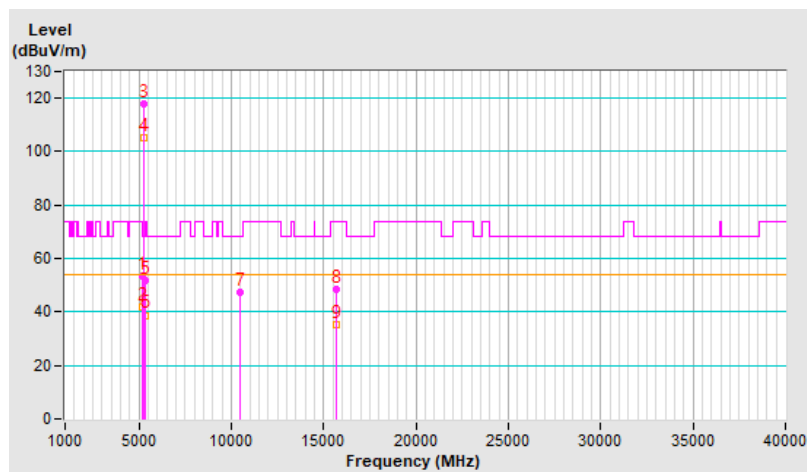


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	53.4 PK	74.0	-20.6	1.48 H	63	50.8	2.6
2	5150.00	41.8 AV	54.0	-12.2	1.48 H	63	39.2	2.6
3	*5240.00	117.9 PK			1.48 H	63	115.6	2.3
4	*5240.00	105.4 AV			1.48 H	63	103.1	2.3
5	5350.00	51.7 PK	74.0	-22.3	1.48 H	63	49.2	2.5
6	5350.00	38.8 AV	54.0	-15.2	1.48 H	63	36.3	2.5
7	#10480.00	47.6 PK	68.2	-20.6	1.05 H	192	35.9	11.7
8	15720.00	48.4 PK	74.0	-25.6	2.53 H	271	36.3	12.1
9	15720.00	35.1 AV	54.0	-18.9	2.53 H	271	23.0	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.

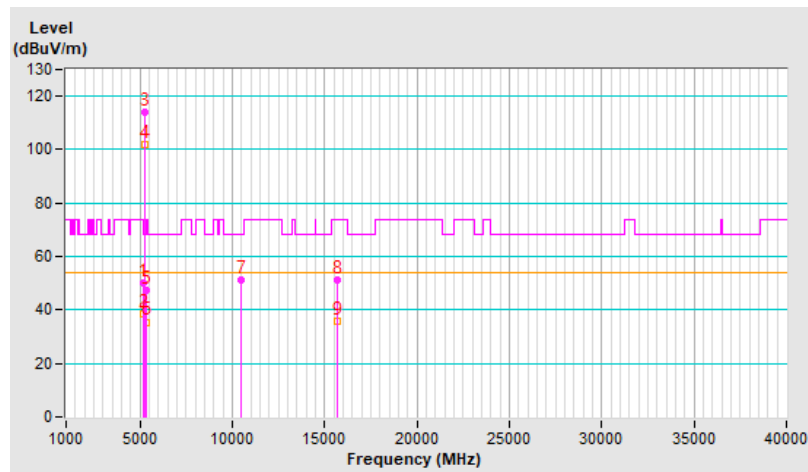


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	50.0 PK	74.0	-24.0	3.49 V	267	47.4	2.6
2	5150.00	38.6 AV	54.0	-15.4	3.49 V	267	36.0	2.6
3	*5240.00	113.9 PK			3.49 V	267	111.6	2.3
4	*5240.00	101.8 AV			3.49 V	267	99.5	2.3
5	5350.00	47.6 PK	74.0	-26.4	3.49 V	267	45.1	2.5
6	5350.00	35.5 AV	54.0	-18.5	3.49 V	267	33.0	2.5
7	#10480.00	51.1 PK	68.2	-17.1	1.60 V	310	39.4	11.7
8	15720.00	51.1 PK	74.0	-22.9	1.15 V	209	39.0	12.1
9	15720.00	36.0 AV	54.0	-18.0	1.15 V	209	23.9	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.

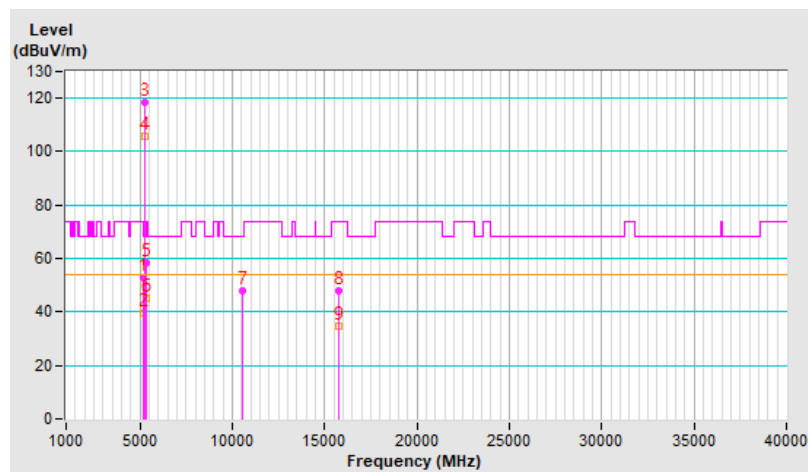


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	52.7 PK	74.0	-21.3	1.10 H	36	50.1	2.6
2	5150.00	39.7 AV	54.0	-14.3	1.10 H	36	37.1	2.6
3	*5260.00	118.5 PK			1.10 H	36	116.3	2.2
4	*5260.00	105.8 AV			1.10 H	36	103.6	2.2
5	5350.00	58.6 PK	74.0	-15.4	1.10 H	36	56.1	2.5
6	5350.00	45.2 AV	54.0	-8.8	1.10 H	36	42.7	2.5
7	#10520.00	48.0 PK	68.2	-20.2	1.02 H	180	36.3	11.7
8	15780.00	47.8 PK	74.0	-26.2	2.54 H	284	35.7	12.1
9	15780.00	34.8 AV	54.0	-19.2	2.54 H	284	22.7	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.

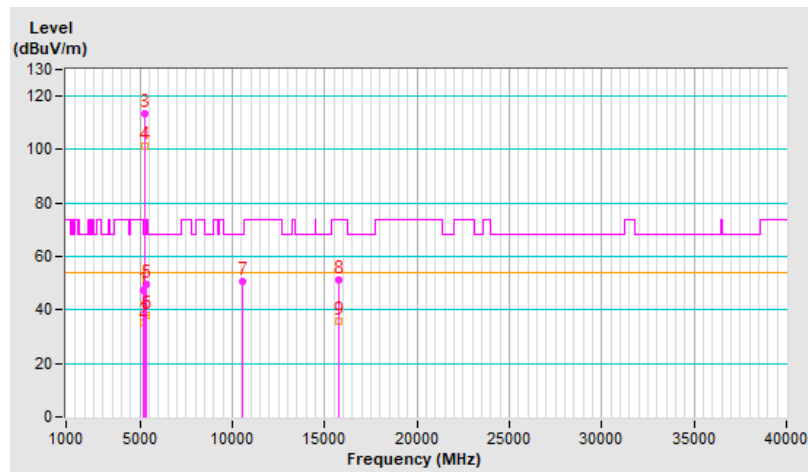


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	47.3 PK	74.0	-26.7	3.47 V	263	44.7	2.6
2	5150.00	35.4 AV	54.0	-18.6	3.47 V	263	32.8	2.6
3	*5260.00	113.6 PK			3.47 V	263	111.4	2.2
4	*5260.00	101.4 AV			3.47 V	263	99.2	2.2
5	5350.00	49.8 PK	74.0	-24.2	3.47 V	263	47.3	2.5
6	5350.00	38.2 AV	54.0	-15.8	3.47 V	263	35.7	2.5
7	#10520.00	50.9 PK	68.2	-17.3	1.55 V	314	39.2	11.7
8	15780.00	51.1 PK	74.0	-22.9	1.13 V	217	39.0	12.1
9	15780.00	35.7 AV	54.0	-18.3	1.13 V	217	23.6	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.

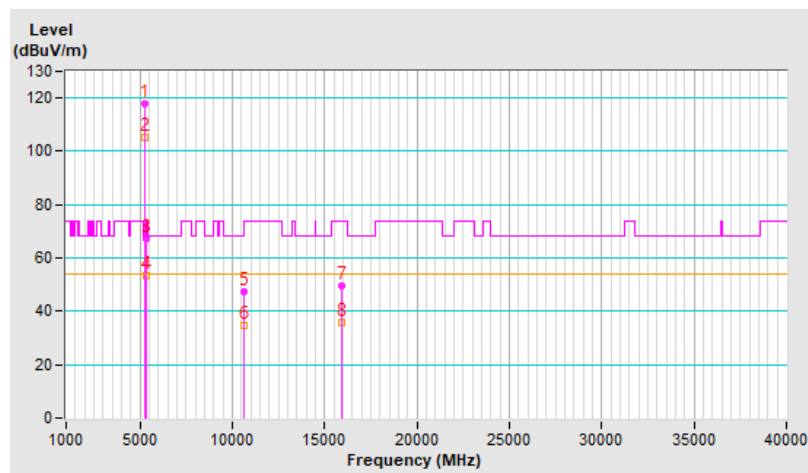


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	117.7 PK			1.05 H	38	115.5	2.2
2	*5300.00	105.1 AV			1.05 H	38	102.9	2.2
3	5350.00	67.1 PK	74.0	-6.9	1.05 H	38	64.6	2.5
4	5350.00	53.6 AV	54.0	-0.4	1.05 H	38	51.1	2.5
5	10600.00	47.4 PK	74.0	-26.6	1.25 H	347	36.1	11.3
6	10600.00	34.9 AV	54.0	-19.1	1.25 H	347	23.6	11.3
7	15900.00	49.7 PK	74.0	-24.3	2.52 H	284	38.1	11.6
8	15900.00	35.9 AV	54.0	-18.1	2.52 H	284	24.3	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.

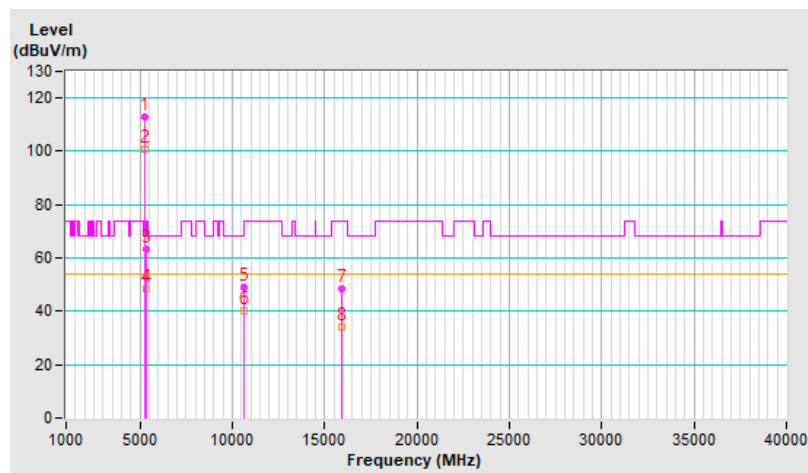


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	112.8 PK			3.42 V	255	110.6	2.2
2	*5300.00	100.7 AV			3.42 V	255	98.5	2.2
3	5350.00	63.2 PK	74.0	-10.8	3.42 V	255	60.7	2.5
4	5350.00	48.6 AV	54.0	-5.4	3.42 V	255	46.1	2.5
5	10600.00	49.2 PK	74.0	-24.8	1.15 V	11	37.9	11.3
6	10600.00	40.1 AV	54.0	-13.9	1.15 V	11	28.8	11.3
7	15900.00	48.3 PK	74.0	-25.7	1.26 V	243	36.7	11.6
8	15900.00	34.0 AV	54.0	-20.0	1.26 V	243	22.4	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.

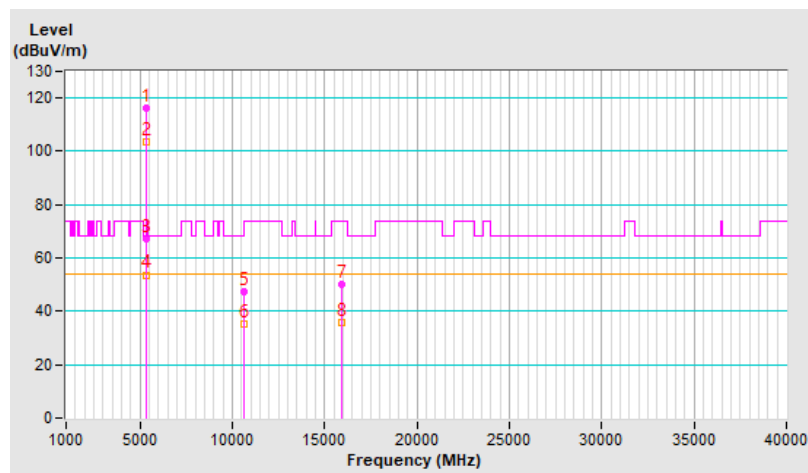


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	116.4 PK			1.18 H	287	114.1	2.3
2	*5320.00	103.7 AV			1.18 H	287	101.4	2.3
3	5350.00	67.2 PK	74.0	-6.8	1.18 H	287	64.7	2.5
4	5350.00	53.7 AV	54.0	-0.3	1.18 H	287	51.2	2.5
5	10640.00	47.4 PK	74.0	-26.6	1.27 H	339	36.0	11.4
6	10640.00	35.0 AV	54.0	-19.0	1.27 H	339	23.6	11.4
7	15960.00	50.0 PK	74.0	-24.0	2.56 H	285	38.5	11.5
8	15960.00	36.0 AV	54.0	-18.0	2.56 H	285	24.5	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.

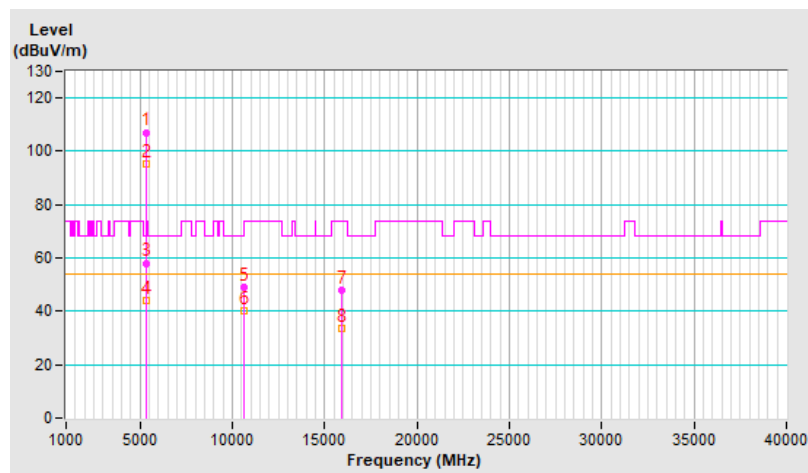


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	107.1 PK			3.46 V	214	104.8	2.3
2	*5320.00	95.2 AV			3.46 V	214	92.9	2.3
3	5350.00	58.1 PK	74.0	-15.9	3.46 V	214	55.6	2.5
4	5350.00	44.0 AV	54.0	-10.0	3.46 V	214	41.5	2.5
5	10640.00	49.2 PK	74.0	-24.8	1.17 V	14	37.8	11.4
6	10640.00	40.3 AV	54.0	-13.7	1.17 V	14	28.9	11.4
7	15960.00	47.9 PK	74.0	-26.1	1.25 V	251	36.4	11.5
8	15960.00	33.6 AV	54.0	-20.4	1.25 V	251	22.1	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.

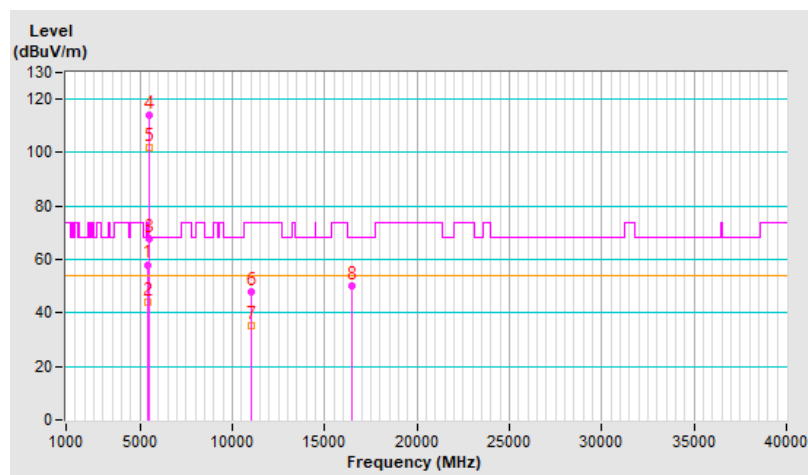


RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.1 PK	74.0	-15.9	1.15 H	36	55.5	2.6
2	5460.00	44.0 AV	54.0	-10.0	1.15 H	36	41.4	2.6
3	#5470.00	67.8 PK	68.2	-0.4	1.15 H	36	65.2	2.6
4	*5500.00	114.1 PK			1.15 H	36	111.4	2.7
5	*5500.00	102.1 AV			1.15 H	36	99.4	2.7
6	11000.00	47.8 PK	74.0	-26.2	1.26 H	325	35.7	12.1
7	11000.00	35.4 AV	54.0	-18.6	1.26 H	325	23.3	12.1
8	#16500.00	50.0 PK	68.2	-18.2	2.48 H	282	35.4	14.6

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.

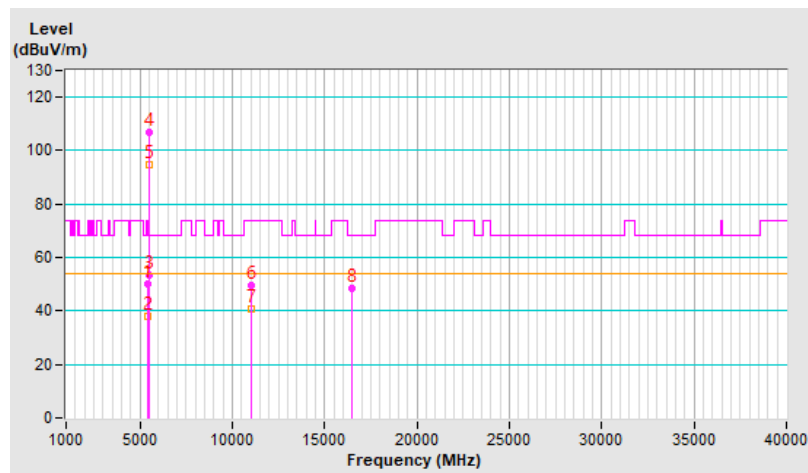


RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	50.2 PK	74.0	-23.8	3.84 V	109	47.6	2.6
2	5460.00	37.8 AV	54.0	-16.2	3.84 V	109	35.2	2.6
3	#5470.00	53.2 PK	68.2	-15.0	3.84 V	109	50.6	2.6
4	*5500.00	106.8 PK			3.84 V	109	104.1	2.7
5	*5500.00	94.5 AV			3.84 V	109	91.8	2.7
6	11000.00	49.4 PK	74.0	-24.6	1.13 V	18	37.3	12.1
7	11000.00	40.5 AV	54.0	-13.5	1.13 V	18	28.4	12.1
8	#16500.00	48.2 PK	68.2	-20.0	1.34 V	235	33.6	14.6

Remarks:

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

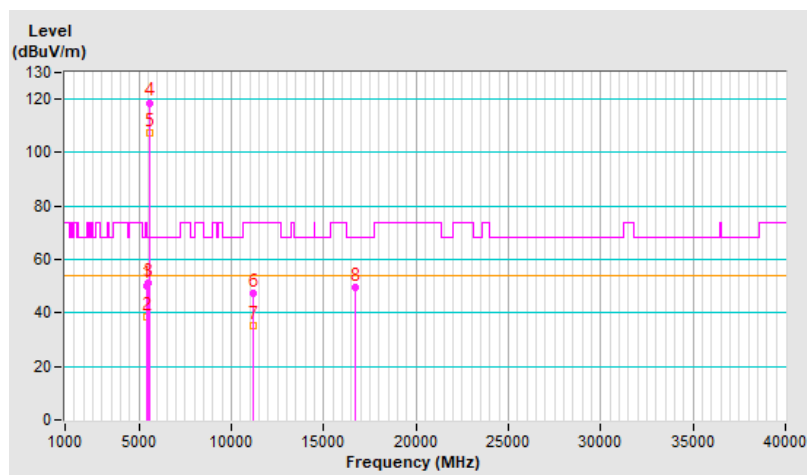


RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	50.4 PK	74.0	-23.6	1.16 H	360	47.8	2.6
2	5460.00	38.4 AV	54.0	-15.6	1.16 H	360	35.8	2.6
3	#5470.00	51.3 PK	68.2	-16.9	1.16 H	360	48.7	2.6
4	*5580.00	118.7 PK			1.16 H	360	116.0	2.7
5	*5580.00	107.3 AV			1.16 H	360	104.6	2.7
6	11160.00	47.6 PK	74.0	-26.4	1.25 H	310	35.6	12.0
7	11160.00	35.2 AV	54.0	-18.8	1.25 H	310	23.2	12.0
8	#16740.00	49.4 PK	68.2	-18.8	2.49 H	280	34.8	14.6

Remarks:

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

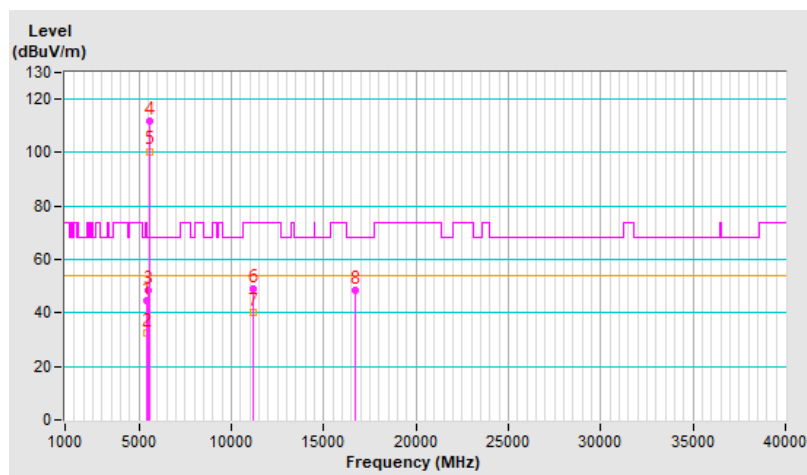


RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	44.6 PK	74.0	-29.4	3.86 V	99	42.0	2.6
2	5460.00	32.6 AV	54.0	-21.4	3.86 V	99	30.0	2.6
3	#5470.00	48.4 PK	68.2	-19.8	3.86 V	99	45.8	2.6
4	*5580.00	111.7 PK			3.86 V	99	109.0	2.7
5	*5580.00	100.5 AV			3.86 V	99	97.8	2.7
6	11160.00	49.1 PK	74.0	-24.9	1.15 V	10	37.1	12.0
7	11160.00	40.2 AV	54.0	-13.8	1.15 V	10	28.2	12.0
8	#16740.00	48.4 PK	68.2	-19.8	1.34 V	225	33.8	14.6

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.

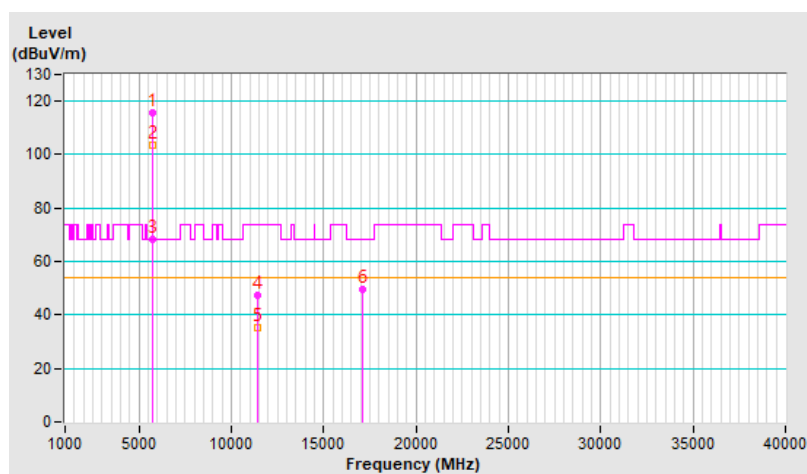


RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	115.8 PK			1.00 H	22	113.0	2.8
2	*5700.00	103.5 AV			1.00 H	22	100.7	2.8
3	#5725.00	68.1 PK	68.2	-0.1	1.00 H	22	65.2	2.9
4	11400.00	47.6 PK	74.0	-26.4	1.30 H	298	35.5	12.1
5	11400.00	35.1 AV	54.0	-18.9	1.30 H	298	23.0	12.1
6	#17100.00	49.4 PK	68.2	-18.8	2.51 H	281	32.6	16.8

Remarks:

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

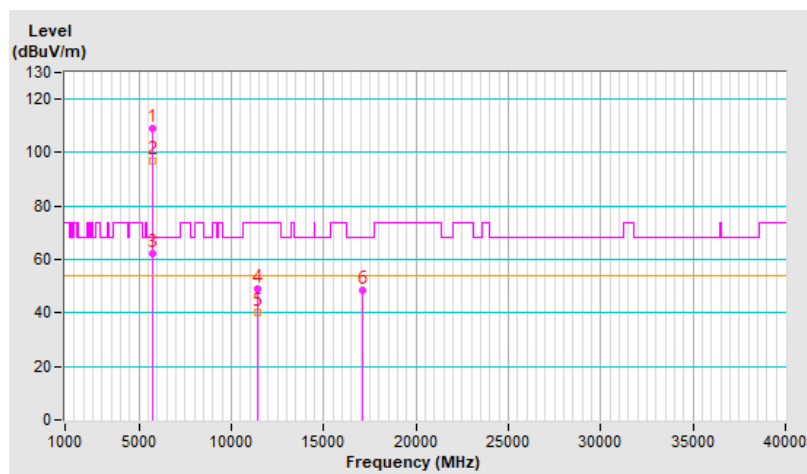


RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	109.3 PK			3.85 V	86	106.5	2.8
2	*5700.00	96.9 AV			3.85 V	86	94.1	2.8
3	#5725.00	62.3 PK	68.2	-5.9	3.85 V	86	59.4	2.9
4	11400.00	48.9 PK	74.0	-25.1	1.15 V	12	36.8	12.1
5	11400.00	40.1 AV	54.0	-13.9	1.15 V	12	28.0	12.1
6	#17100.00	48.4 PK	68.2	-19.8	1.35 V	236	31.6	16.8

Remarks:

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

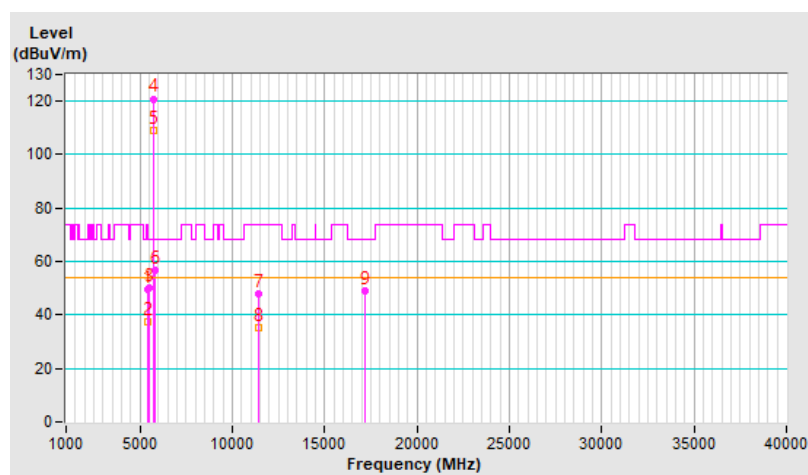


RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	49.6 PK	74.0	-24.4	1.33 H	64	47.0	2.6
2	5460.00	37.4 AV	54.0	-16.6	1.33 H	64	34.8	2.6
3	#5470.00	50.2 PK	68.2	-18.0	1.33 H	64	47.6	2.6
4	*5720.00	120.9 PK			1.33 H	64	118.0	2.9
5	*5720.00	109.2 AV			1.33 H	64	106.3	2.9
6	#5850.00	56.7 PK	68.2	-11.5	1.33 H	64	53.3	3.4
7	11440.00	47.7 PK	74.0	-26.3	1.25 H	306	35.5	12.2
8	11440.00	35.1 AV	54.0	-18.9	1.25 H	306	22.9	12.2
9	#17160.00	49.1 PK	68.2	-19.1	2.47 H	277	32.4	16.7

Remarks:

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

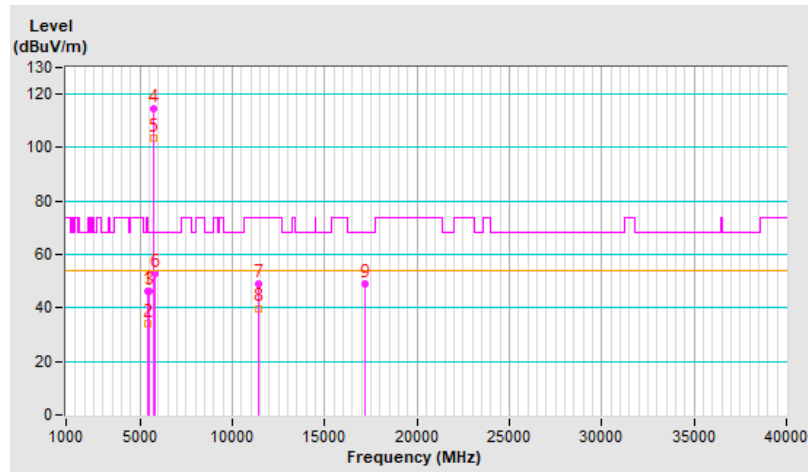


RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	46.4 PK	74.0	-27.6	3.89 V	81	43.8	2.6
2	5460.00	34.1 AV	54.0	-19.9	3.89 V	81	31.5	2.6
3	#5470.00	46.1 PK	68.2	-22.1	3.89 V	81	43.5	2.6
4	*5720.00	114.8 PK			3.89 V	81	111.9	2.9
5	*5720.00	103.3 AV			3.89 V	81	100.4	2.9
6	#5850.00	52.9 PK	68.2	-15.3	3.89 V	81	49.5	3.4
7	11440.00	48.9 PK	74.0	-25.1	1.10 V	4	36.7	12.2
8	11440.00	39.9 AV	54.0	-14.1	1.10 V	4	27.7	12.2
9	#17160.00	48.9 PK	68.2	-19.3	1.34 V	248	32.2	16.7

Remarks:

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

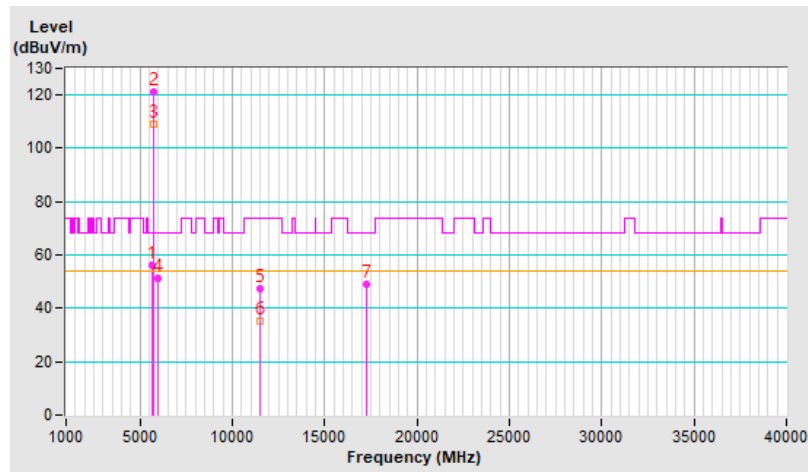


RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	#5637.99	56.1 PK	68.2	-12.1	1.00 H	21	53.3	2.8
2	*5745.00	121.4 PK			1.00 H	21	118.4	3.0
3	*5745.00	109.1 AV			1.00 H	21	106.1	3.0
4	#5958.36	51.2 PK	68.2	-17.0	1.00 H	21	47.8	3.4
5	11490.00	47.6 PK	74.0	-26.4	1.28 H	299	35.4	12.2
6	11490.00	35.1 AV	54.0	-18.9	1.28 H	299	22.9	12.2
7	#17235.00	49.1 PK	68.2	-19.1	2.49 H	274	32.4	16.7

Remarks:

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

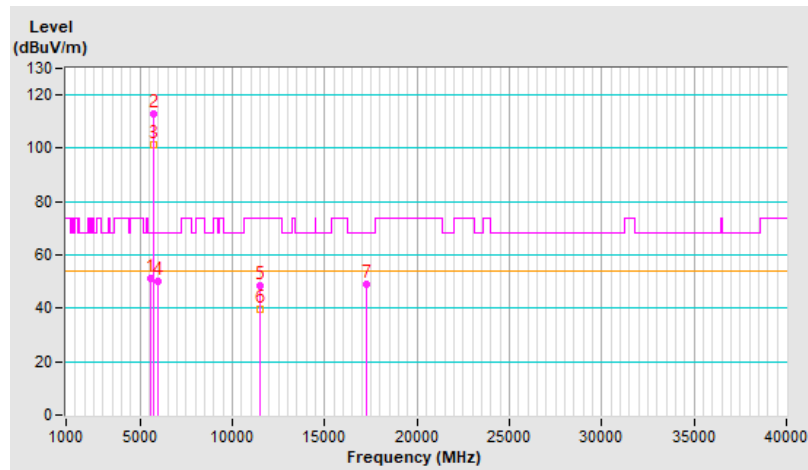


RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	#5591.94	51.0 PK	68.2	-17.2	3.30 V	62	48.3	2.7
2	*5745.00	113.1 PK			3.30 V	62	110.1	3.0
3	*5745.00	101.4 AV			3.30 V	62	98.4	3.0
4	#5987.69	50.0 PK	68.2	-18.2	3.30 V	62	46.6	3.4
5	11490.00	48.6 PK	74.0	-25.4	1.14 V	13	36.4	12.2
6	11490.00	39.8 AV	54.0	-14.2	1.14 V	13	27.6	12.2
7	#17235.00	49.2 PK	68.2	-19.0	1.36 V	240	32.5	16.7

Remarks:

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

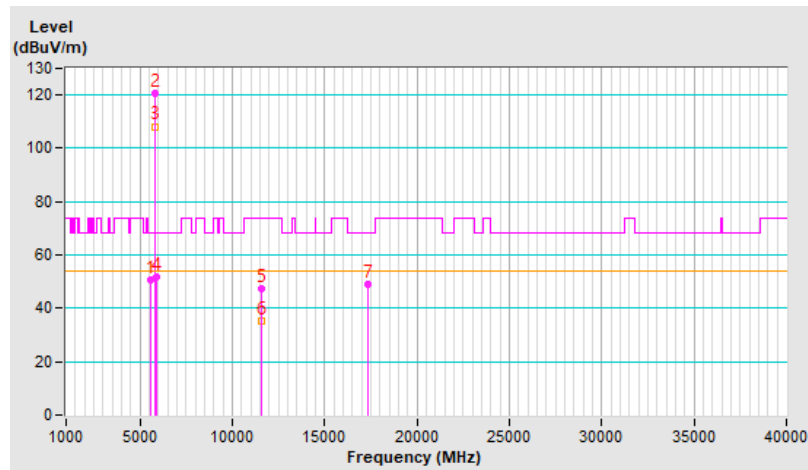


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	#5584.25	50.8 PK	68.2	-17.4	1.35 H	19	48.1	2.7
2	*5785.00	120.4 PK			1.35 H	19	117.1	3.3
3	*5785.00	108.2 AV			1.35 H	19	104.9	3.3
4	#5929.98	52.0 PK	68.2	-16.2	1.35 H	19	48.5	3.5
5	11570.00	47.5 PK	74.0	-26.5	1.28 H	296	35.6	11.9
6	11570.00	35.2 AV	54.0	-18.8	1.28 H	296	23.3	11.9
7	#17355.00	48.9 PK	68.2	-19.3	2.44 H	261	32.1	16.8

Remarks:

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

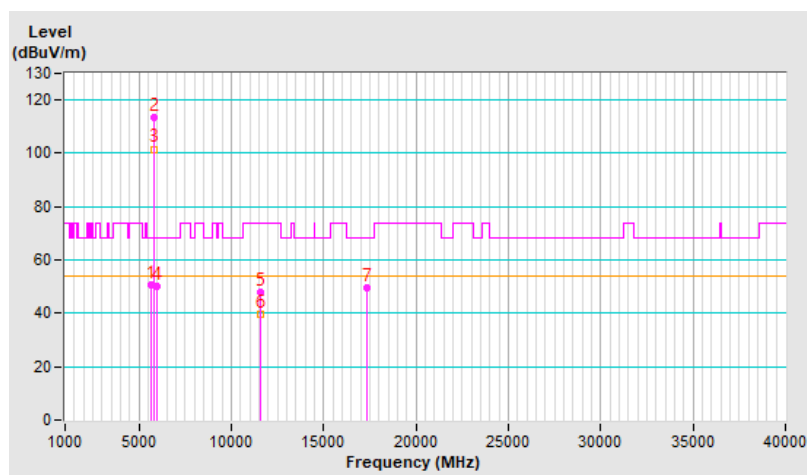


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.94	50.9 PK	68.2	-17.3	3.88 V	74	48.1	2.8
2	*5785.00	113.5 PK			3.88 V	74	110.2	3.3
3	*5785.00	101.6 AV			3.88 V	74	98.3	3.3
4	#5948.35	50.3 PK	68.2	-17.9	3.88 V	74	46.9	3.4
5	11570.00	48.1 PK	74.0	-25.9	1.18 V	11	36.2	11.9
6	11570.00	39.6 AV	54.0	-14.4	1.18 V	11	27.7	11.9
7	#17355.00	49.5 PK	68.2	-18.7	1.38 V	232	32.7	16.8

Remarks:

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

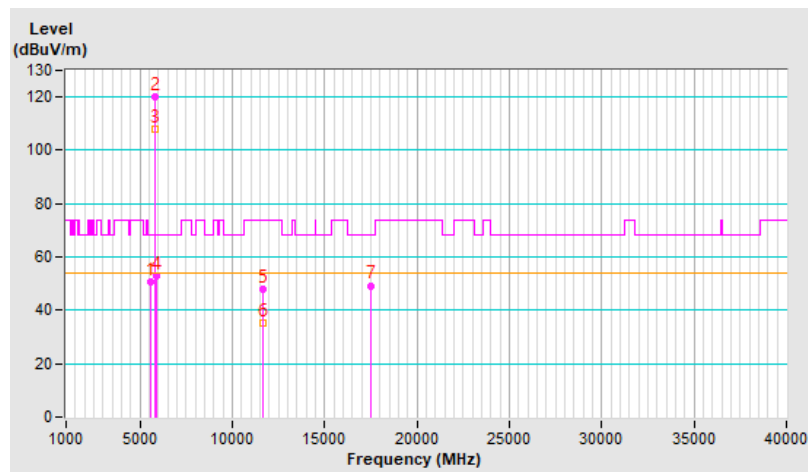


RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	#5575.48	50.6 PK	68.2	-17.6	1.00 H	42	47.9	2.7
2	*5825.00	120.3 PK			1.00 H	42	116.9	3.4
3	*5825.00	108.1 AV			1.00 H	42	104.7	3.4
4	#5932.87	52.9 PK	68.2	-15.3	1.00 H	42	49.4	3.5
5	11650.00	47.7 PK	74.0	-26.3	1.23 H	302	36.1	11.6
6	11650.00	35.2 AV	54.0	-18.8	1.23 H	302	23.6	11.6
7	#17475.00	49.3 PK	68.2	-18.9	2.43 H	251	31.7	17.6

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.

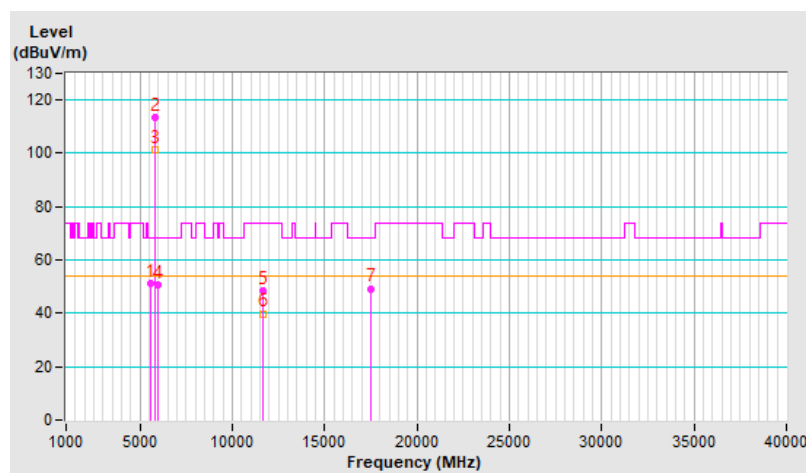


RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	#5572.85	51.1 PK	68.2	-17.1	4.00 V	104	48.4	2.7
2	*5825.00	113.2 PK			4.00 V	104	109.8	3.4
3	*5825.00	101.4 AV			4.00 V	104	98.0	3.4
4	#5968.76	50.5 PK	68.2	-17.7	4.00 V	104	47.1	3.4
5	11650.00	48.5 PK	74.0	-25.5	1.16 V	15	36.9	11.6
6	11650.00	39.9 AV	54.0	-14.1	1.16 V	15	28.3	11.6
7	#17475.00	49.3 PK	68.2	-18.9	1.39 V	239	31.7	17.6

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.

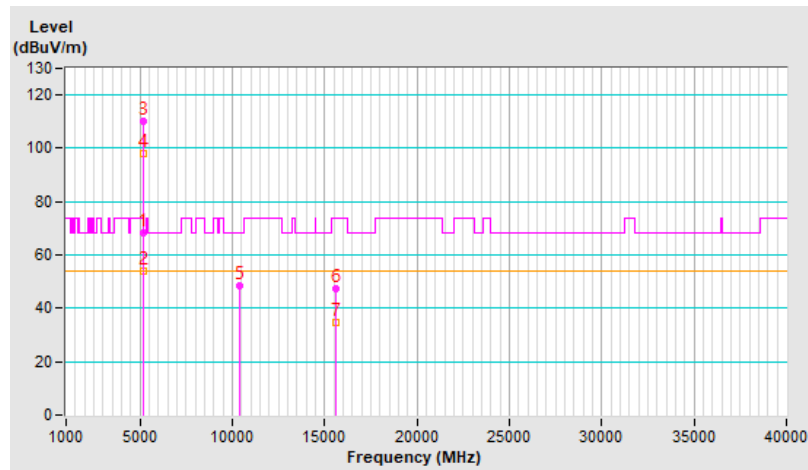


RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.2 PK	74.0	-5.8	1.00 H	31	65.6	2.6
2	5150.00	53.9 AV	54.0	-0.1	1.00 H	31	51.3	2.6
3	*5190.00	110.1 PK			1.00 H	31	107.5	2.6
4	*5190.00	98.1 AV			1.00 H	31	95.5	2.6
5	#10380.00	48.3 PK	68.2	-19.9	1.00 H	189	36.9	11.4
6	15570.00	47.6 PK	74.0	-26.4	2.49 H	302	36.1	11.5
7	15570.00	34.6 AV	54.0	-19.4	2.49 H	302	23.1	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.

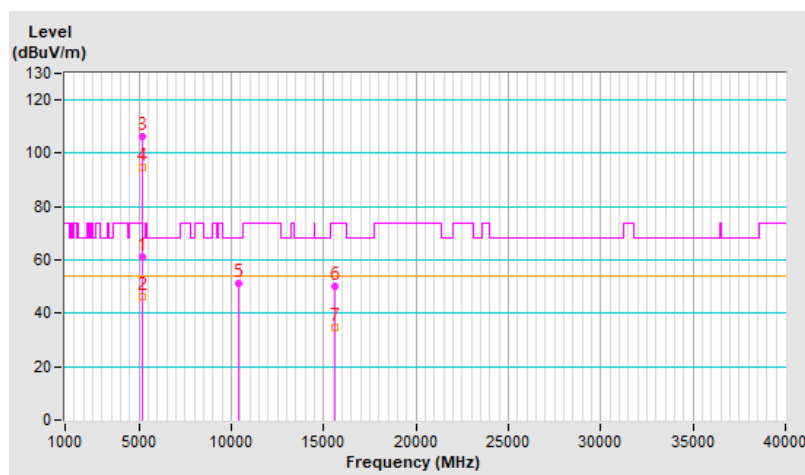


RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	60.9 PK	74.0	-13.1	3.49 V	259	58.3	2.6
2	5150.00	46.3 AV	54.0	-7.7	3.49 V	259	43.7	2.6
3	*5190.00	106.2 PK			3.49 V	259	103.6	2.6
4	*5190.00	94.6 AV			3.49 V	259	92.0	2.6
5	#10380.00	51.3 PK	68.2	-16.9	1.47 V	294	39.9	11.4
6	15570.00	50.0 PK	74.0	-24.0	1.20 V	216	38.5	11.5
7	15570.00	34.9 AV	54.0	-19.1	1.20 V	216	23.4	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.

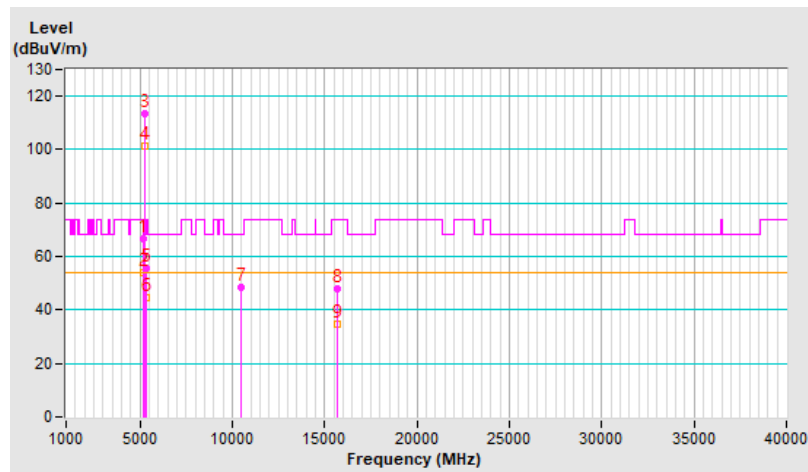


RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.5 PK	74.0	-7.5	1.43 H	41	63.9	2.6
2	5150.00	53.8 AV	54.0	-0.2	1.43 H	41	51.2	2.6
3	*5230.00	113.3 PK			1.43 H	41	110.9	2.4
4	*5230.00	101.4 AV			1.43 H	41	99.0	2.4
5	5350.00	55.6 PK	74.0	-18.4	1.43 H	41	53.1	2.5
6	5350.00	44.6 AV	54.0	-9.4	1.43 H	41	42.1	2.5
7	#10460.00	48.7 PK	68.2	-19.5	1.02 H	192	37.0	11.7
8	15690.00	47.8 PK	74.0	-26.2	2.52 H	299	35.7	12.1
9	15690.00	34.8 AV	54.0	-19.2	2.52 H	299	22.7	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.

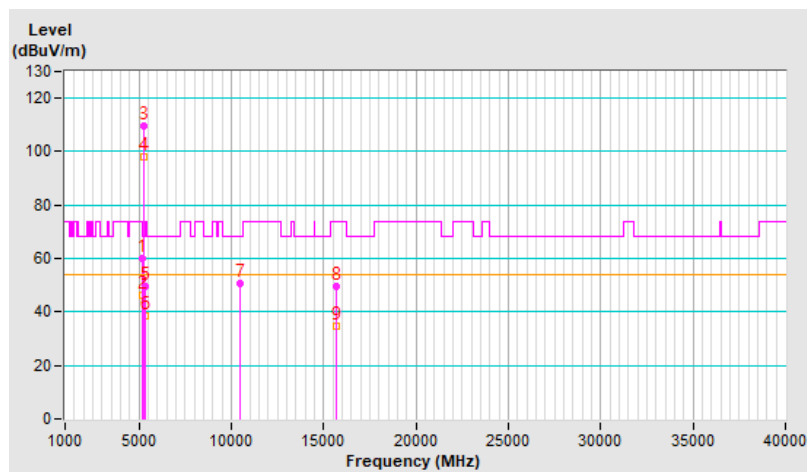


RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	59.8 PK	74.0	-14.2	3.52 V	265	57.2	2.6
2	5150.00	46.2 AV	54.0	-7.8	3.52 V	265	43.6	2.6
3	*5230.00	109.5 PK			3.52 V	265	107.1	2.4
4	*5230.00	97.8 AV			3.52 V	265	95.4	2.4
5	5350.00	49.6 PK	74.0	-24.4	3.52 V	265	47.1	2.5
6	5350.00	38.4 AV	54.0	-15.6	3.52 V	265	35.9	2.5
7	#10460.00	50.9 PK	68.2	-17.3	1.52 V	299	39.2	11.7
8	15690.00	49.8 PK	74.0	-24.2	1.21 V	204	37.7	12.1
9	15690.00	34.7 AV	54.0	-19.3	1.21 V	204	22.6	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.

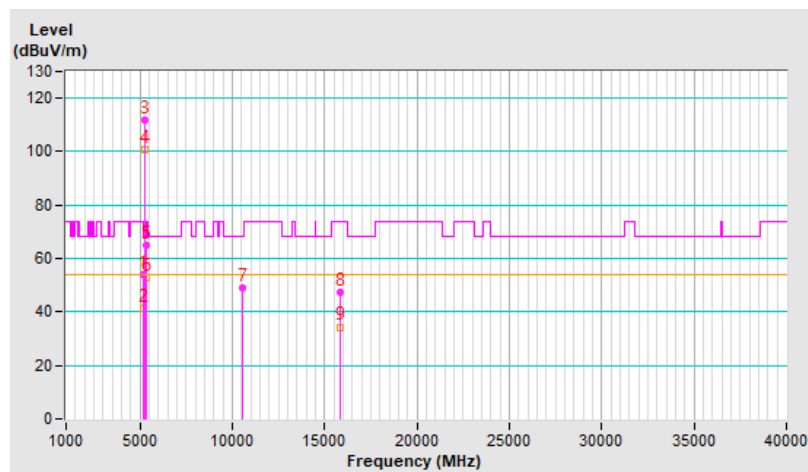


RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	53.8 PK	74.0	-20.2	1.00 H	46	51.2	2.6
2	5150.00	41.5 AV	54.0	-12.5	1.00 H	46	38.9	2.6
3	*5270.00	111.9 PK			1.00 H	46	109.7	2.2
4	*5270.00	100.9 AV			1.00 H	46	98.7	2.2
5	5350.00	65.1 PK	74.0	-8.9	1.00 H	46	62.6	2.5
6	5350.00	53.1 AV	54.0	-0.9	1.00 H	46	50.6	2.5
7	#10540.00	49.0 PK	68.2	-19.2	1.07 H	191	37.4	11.6
8	15810.00	47.1 PK	74.0	-26.9	2.52 H	289	35.1	12.0
9	15810.00	34.4 AV	54.0	-19.6	2.52 H	289	22.4	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.

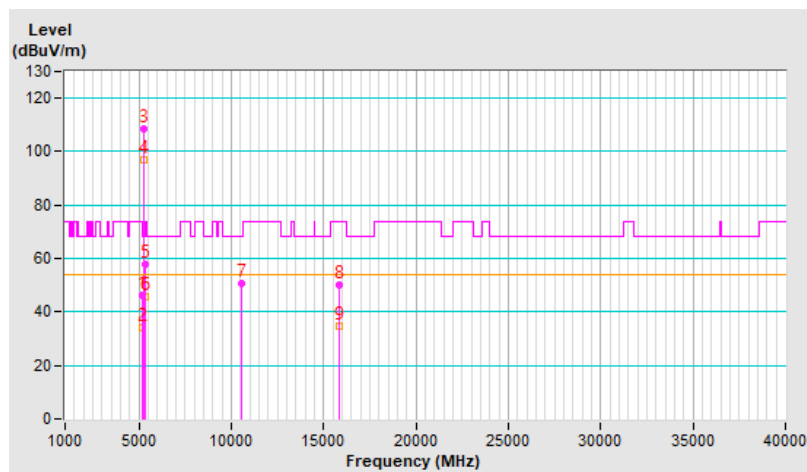


RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	46.1 PK	74.0	-27.9	3.47 V	266	43.5	2.6
2	5150.00	34.2 AV	54.0	-19.8	3.47 V	266	31.6	2.6
3	*5270.00	108.3 PK			3.47 V	266	106.1	2.2
4	*5270.00	96.7 AV			3.47 V	266	94.5	2.2
5	5350.00	57.6 PK	74.0	-16.4	3.47 V	266	55.1	2.5
6	5350.00	45.6 AV	54.0	-8.4	3.47 V	266	43.1	2.5
7	#10540.00	50.8 PK	68.2	-17.4	1.56 V	306	39.2	11.6
8	15810.00	49.9 PK	74.0	-24.1	1.20 V	209	37.9	12.0
9	15810.00	34.6 AV	54.0	-19.4	1.20 V	209	22.6	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.

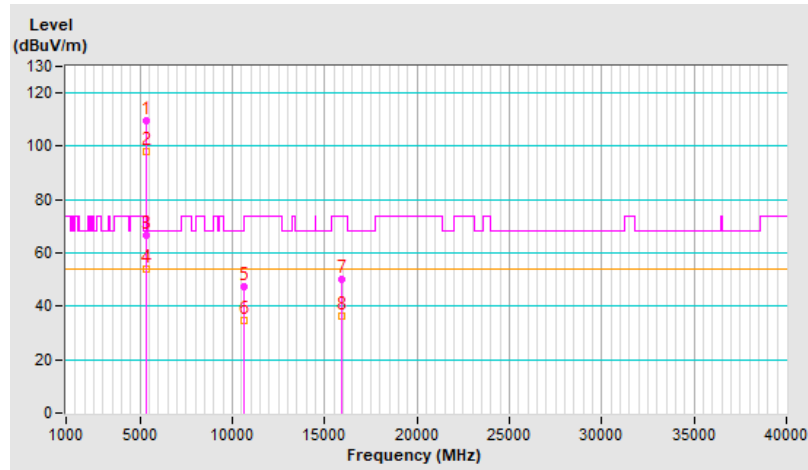


RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	109.8 PK			1.00 H	34	107.6	2.2
2	*5310.00	98.0 AV			1.00 H	34	95.8	2.2
3	5350.00	66.4 PK	74.0	-7.6	1.00 H	34	63.9	2.5
4	5350.00	53.8 AV	54.0	-0.2	1.00 H	34	51.3	2.5
5	10620.00	47.3 PK	74.0	-26.7	1.21 H	325	36.0	11.3
6	10620.00	34.7 AV	54.0	-19.3	1.21 H	325	23.4	11.3
7	15930.00	50.0 PK	74.0	-24.0	2.53 H	301	38.5	11.5
8	15930.00	36.3 AV	54.0	-17.7	2.53 H	301	24.8	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.

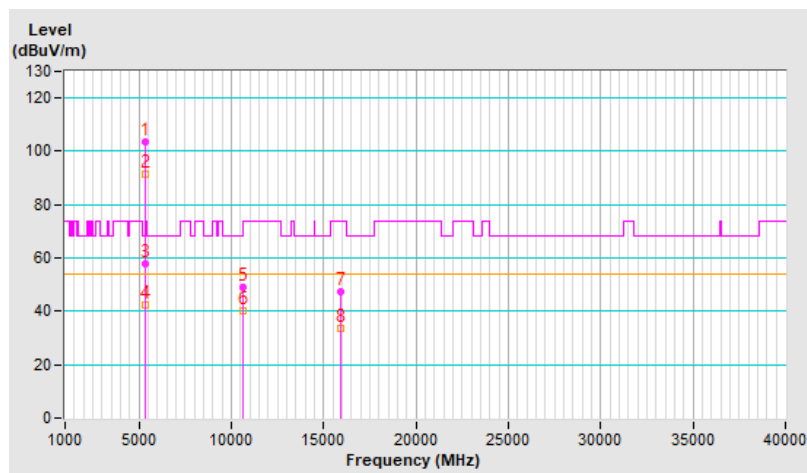


RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	103.3 PK			3.90 V	217	101.1	2.2
2	*5310.00	91.4 AV			3.90 V	217	89.2	2.2
3	5350.00	57.8 PK	74.0	-16.2	3.90 V	217	55.3	2.5
4	5350.00	42.5 AV	54.0	-11.5	3.90 V	217	40.0	2.5
5	10620.00	49.1 PK	74.0	-24.9	1.15 V	16	37.8	11.3
6	10620.00	40.3 AV	54.0	-13.7	1.15 V	16	29.0	11.3
7	15930.00	47.6 PK	74.0	-26.4	1.27 V	248	36.1	11.5
8	15930.00	33.5 AV	54.0	-20.5	1.27 V	248	22.0	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.

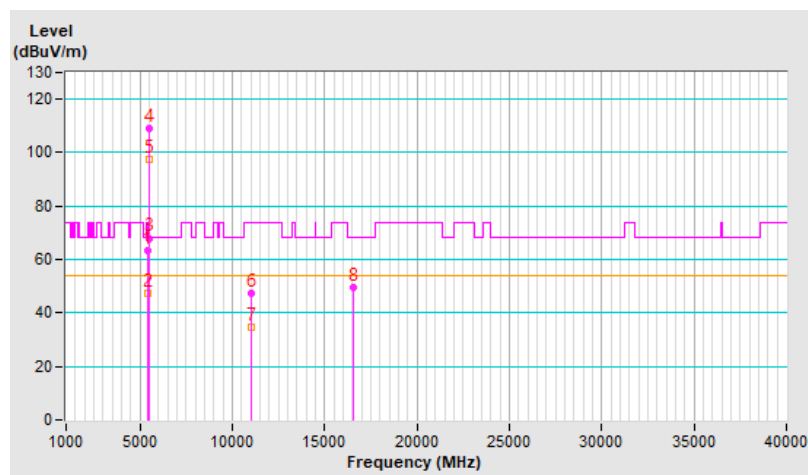


RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	63.3 PK	74.0	-10.7	1.00 H	36	60.7	2.6
2	5460.00	47.5 AV	54.0	-6.5	1.00 H	36	44.9	2.6
3	#5470.00	68.0 PK	68.2	-0.2	1.00 H	36	65.4	2.6
4	*5510.00	108.8 PK			1.00 H	36	106.1	2.7
5	*5510.00	97.4 AV			1.00 H	36	94.7	2.7
6	11020.00	47.4 PK	74.0	-26.6	1.27 H	320	35.3	12.1
7	11020.00	34.8 AV	54.0	-19.2	1.27 H	320	22.7	12.1
8	#16530.00	49.7 PK	68.2	-18.5	2.46 H	289	35.2	14.5

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.

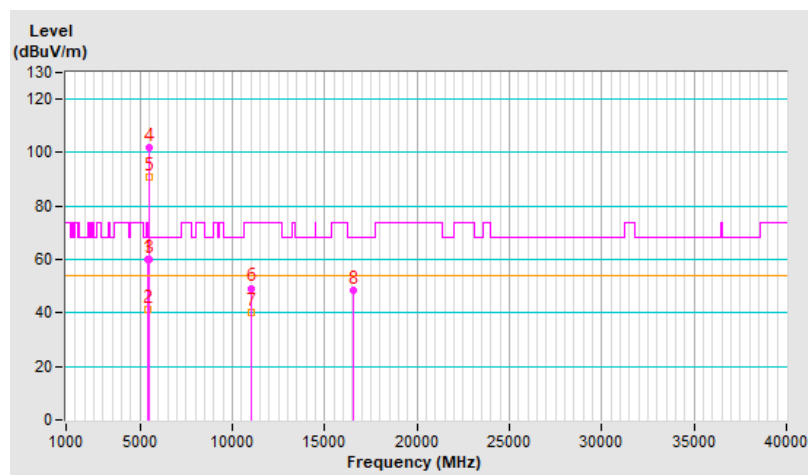


RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.1 PK	74.0	-13.9	3.79 V	76	57.5	2.6
2	5460.00	41.3 AV	54.0	-12.7	3.79 V	76	38.7	2.6
3	#5470.00	59.8 PK	68.2	-8.4	3.79 V	76	57.2	2.6
4	*5510.00	101.9 PK			3.79 V	76	99.2	2.7
5	*5510.00	91.0 AV			3.79 V	76	88.3	2.7
6	11020.00	49.3 PK	74.0	-24.7	1.14 V	19	37.2	12.1
7	11020.00	40.3 AV	54.0	-13.7	1.14 V	19	28.2	12.1
8	#16530.00	48.6 PK	68.2	-19.6	1.30 V	245	34.1	14.5

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.

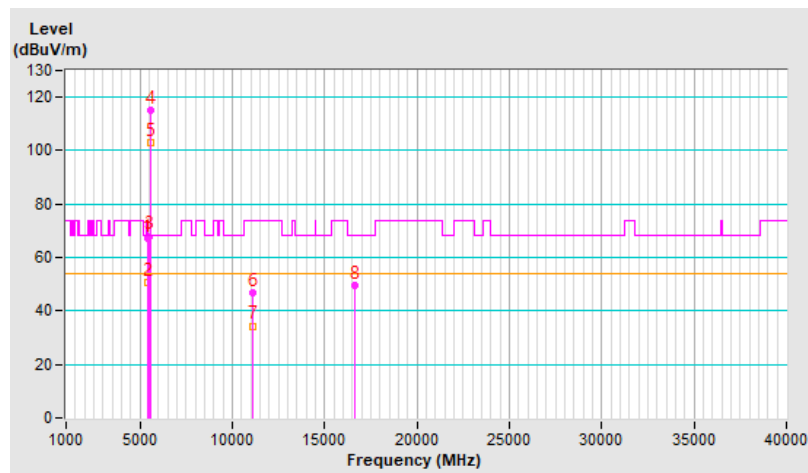


RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	67.1 PK	74.0	-6.9	1.00 H	37	64.5	2.6
2	5460.00	50.5 AV	54.0	-3.5	1.00 H	37	47.9	2.6
3	#5470.00	68.0 PK	68.2	-0.2	1.00 H	37	65.4	2.6
4	*5550.00	115.1 PK			1.00 H	37	112.4	2.7
5	*5550.00	103.0 AV			1.00 H	37	100.3	2.7
6	11100.00	46.9 PK	74.0	-27.1	1.32 H	318	35.0	11.9
7	11100.00	34.4 AV	54.0	-19.6	1.32 H	318	22.5	11.9
8	#16650.00	49.6 PK	68.2	-18.6	2.50 H	284	35.3	14.3

Remarks:

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

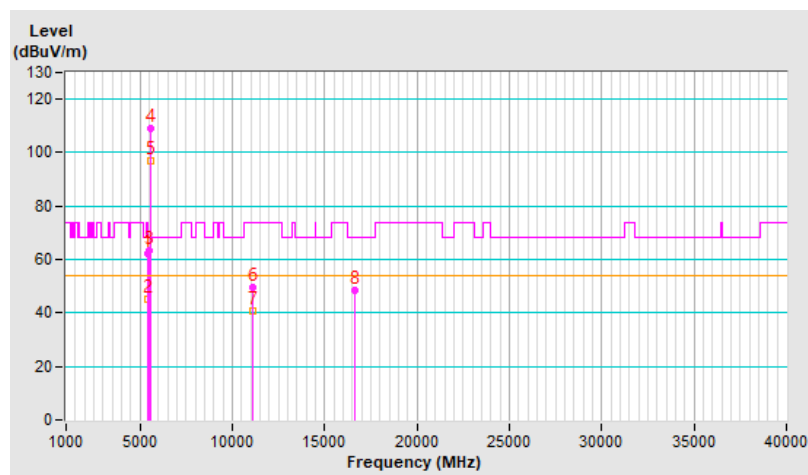


RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.3 PK	74.0	-11.7	3.74 V	92	59.7	2.6
2	5460.00	45.4 AV	54.0	-8.6	3.74 V	92	42.8	2.6
3	#5470.00	63.4 PK	68.2	-4.8	3.74 V	92	60.8	2.6
4	*5550.00	109.2 PK			3.74 V	92	106.5	2.7
5	*5550.00	96.9 AV			3.74 V	92	94.2	2.7
6	11100.00	49.5 PK	74.0	-24.5	1.15 V	27	37.6	11.9
7	11100.00	40.8 AV	54.0	-13.2	1.15 V	27	28.9	11.9
8	#16650.00	48.6 PK	68.2	-19.6	1.26 V	260	34.3	14.3

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.

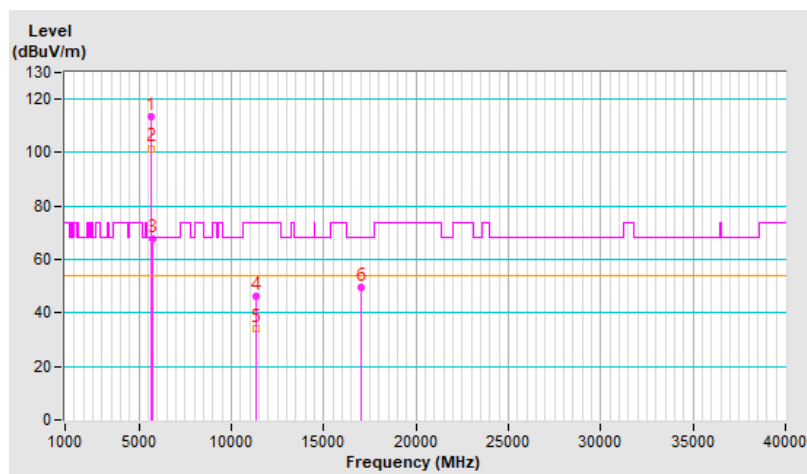


RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	113.5 PK			1.27 H	18	110.7	2.8
2	*5670.00	101.6 AV			1.27 H	18	98.8	2.8
3	#5725.00	67.6 PK	68.2	-0.6	1.27 H	18	64.7	2.9
4	11340.00	46.4 PK	74.0	-27.6	1.35 H	322	34.2	12.2
5	11340.00	34.2 AV	54.0	-19.8	1.35 H	322	22.0	12.2
6	#17010.00	49.7 PK	68.2	-18.5	2.46 H	295	33.7	16.0

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.

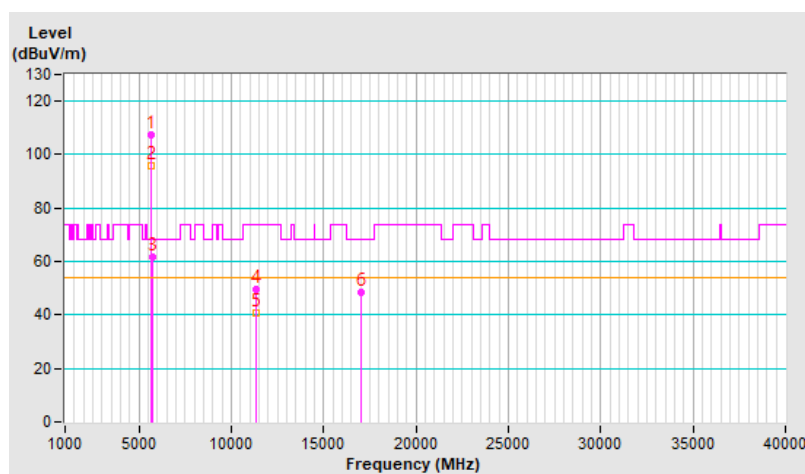


RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	107.4 PK			3.73 V	78	104.6	2.8
2	*5670.00	95.8 AV			3.73 V	78	93.0	2.8
3	#5725.00	61.7 PK	68.2	-6.5	3.73 V	78	58.8	2.9
4	11340.00	49.8 PK	74.0	-24.2	1.13 V	37	37.6	12.2
5	11340.00	40.8 AV	54.0	-13.2	1.13 V	37	28.6	12.2
6	#17010.00	48.3 PK	68.2	-19.9	1.23 V	272	32.3	16.0

Remarks:

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

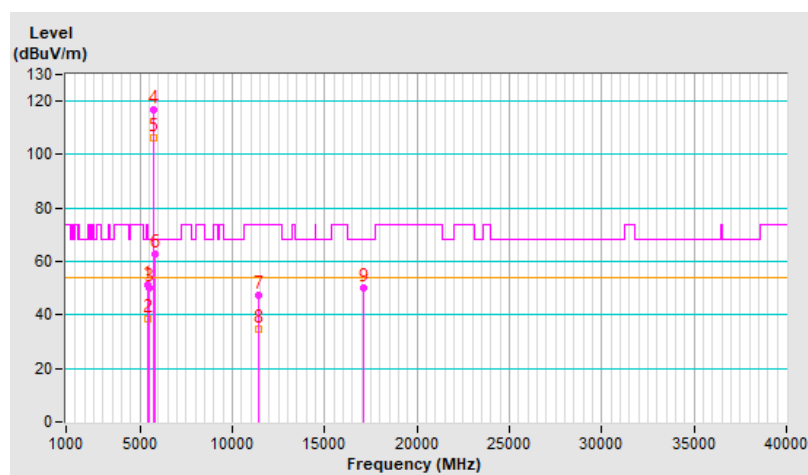


RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	51.1 PK	74.0	-22.9	1.34 H	45	48.5	2.6
2	5460.00	38.3 AV	54.0	-15.7	1.34 H	45	35.7	2.6
3	#5470.00	50.2 PK	68.2	-18.0	1.34 H	45	47.6	2.6
4	*5710.00	117.0 PK			1.34 H	45	114.1	2.9
5	*5710.00	106.3 AV			1.34 H	45	103.4	2.9
6	#5850.00	62.7 PK	68.2	-5.5	1.34 H	45	59.3	3.4
7	11420.00	47.4 PK	74.0	-26.6	1.33 H	313	35.3	12.1
8	11420.00	34.6 AV	54.0	-19.4	1.33 H	313	22.5	12.1
9	#17130.00	50.0 PK	68.2	-18.2	2.53 H	296	33.2	16.8

Remarks:

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

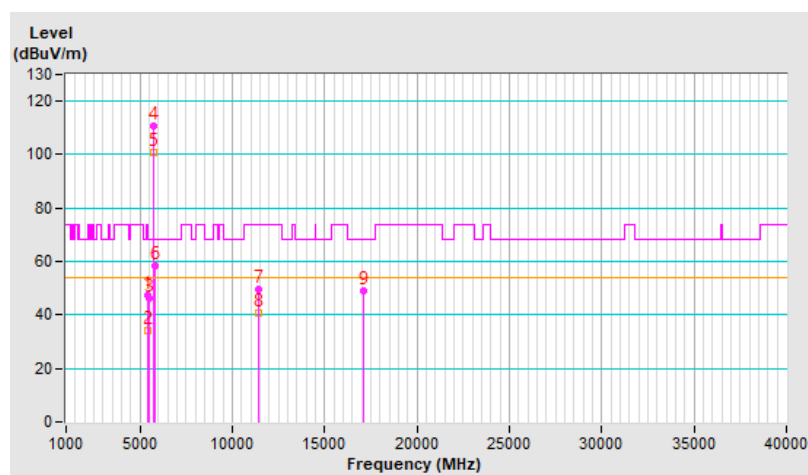


RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	47.1 PK	74.0	-26.9	3.78 V	71	44.5	2.6
2	5460.00	34.2 AV	54.0	-19.8	3.78 V	71	31.6	2.6
3	#5470.00	46.3 PK	68.2	-21.9	3.78 V	71	43.7	2.6
4	*5710.00	110.9 PK			3.78 V	71	108.0	2.9
5	*5710.00	100.7 AV			3.78 V	71	97.8	2.9
6	#5850.00	58.4 PK	68.2	-9.8	3.78 V	71	55.0	3.4
7	11420.00	49.6 PK	74.0	-24.4	1.20 V	30	37.5	12.1
8	11420.00	40.8 AV	54.0	-13.2	1.20 V	30	28.7	12.1
9	#17130.00	48.9 PK	68.2	-19.3	1.30 V	256	32.1	16.8

Remarks:

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

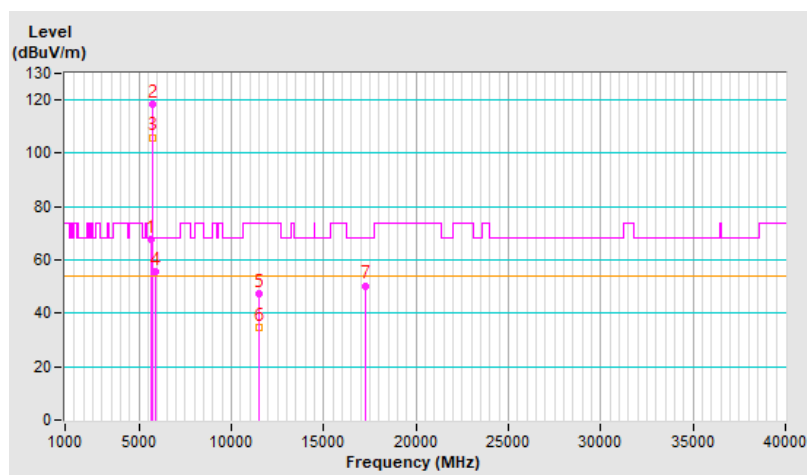


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	#5643.92	67.9 PK	68.2	-0.3	1.00 H	36	65.1	2.8
2	*5755.00	118.6 PK			1.00 H	36	115.5	3.1
3	*5755.00	106.0 AV			1.00 H	36	102.9	3.1
4	#5923.37	55.8 PK	68.2	-12.4	1.00 H	36	52.3	3.5
5	11510.00	47.6 PK	74.0	-26.4	1.28 H	302	35.4	12.2
6	11510.00	34.9 AV	54.0	-19.1	1.28 H	302	22.7	12.2
7	#17265.00	50.4 PK	68.2	-17.8	2.50 H	298	33.5	16.9

Remarks:

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

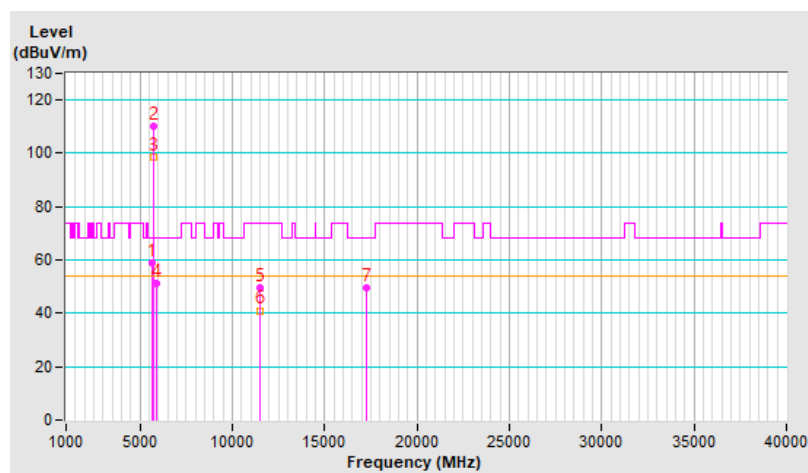


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.68	59.0 PK	68.2	-9.2	3.89 V	76	56.2	2.8
2	*5755.00	110.2 PK			3.89 V	76	107.1	3.1
3	*5755.00	98.8 AV			3.89 V	76	95.7	3.1
4	#5933.09	51.2 PK	68.2	-17.0	3.89 V	76	47.7	3.5
5	11510.00	49.6 PK	74.0	-24.4	1.19 V	42	37.4	12.2
6	11510.00	41.0 AV	54.0	-13.0	1.19 V	42	28.8	12.2
7	#17265.00	49.4 PK	68.2	-18.8	1.32 V	265	32.5	16.9

Remarks:

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

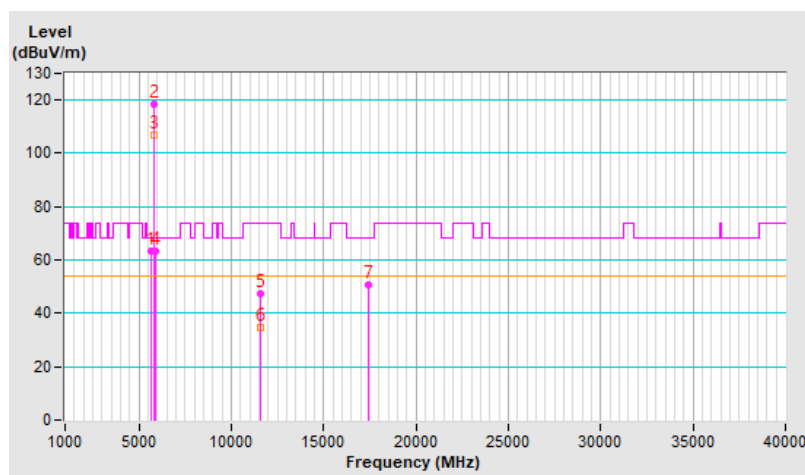


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	#5643.36	63.5 PK	68.2	-4.7	1.10 H	32	60.7	2.8
2	*5795.00	118.4 PK			1.10 H	32	115.1	3.3
3	*5795.00	106.6 AV			1.10 H	32	103.3	3.3
4	#5924.67	63.5 PK	68.2	-4.7	1.10 H	32	60.0	3.5
5	11590.00	47.5 PK	74.0	-26.5	1.32 H	295	35.8	11.7
6	11590.00	34.9 AV	54.0	-19.1	1.32 H	295	23.2	11.7
7	#17385.00	50.7 PK	68.2	-17.5	2.45 H	313	34.0	16.7

Remarks:

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

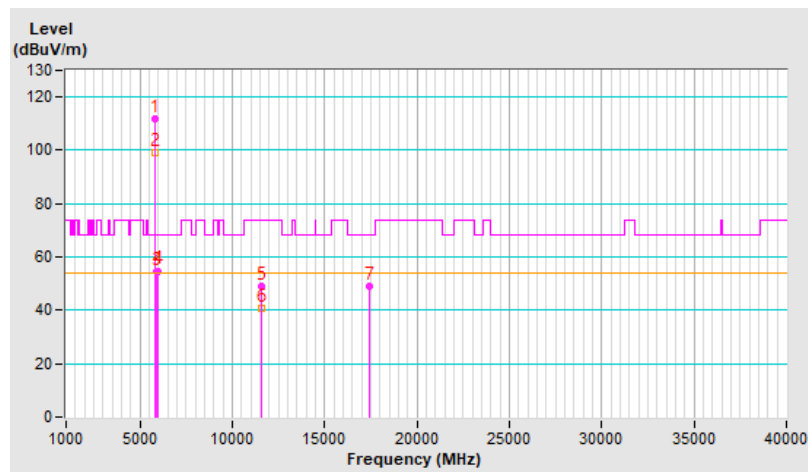


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	*5795.00	111.7 PK			3.84 V	72	108.4	3.3
2	*5795.00	99.2 AV			3.84 V	72	95.9	3.3
3	#5927.13	54.7 PK	68.2	-13.5	3.84 V	72	51.2	3.5
4	#5936.68	54.8 PK	68.2	-13.4	3.84 V	72	51.3	3.5
5	11590.00	48.8 PK	74.0	-25.2	1.17 V	39	37.1	11.7
6	11590.00	40.5 AV	54.0	-13.5	1.17 V	39	28.8	11.7
7	#17385.00	49.1 PK	68.2	-19.1	1.30 V	271	32.4	16.7

Remarks:

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

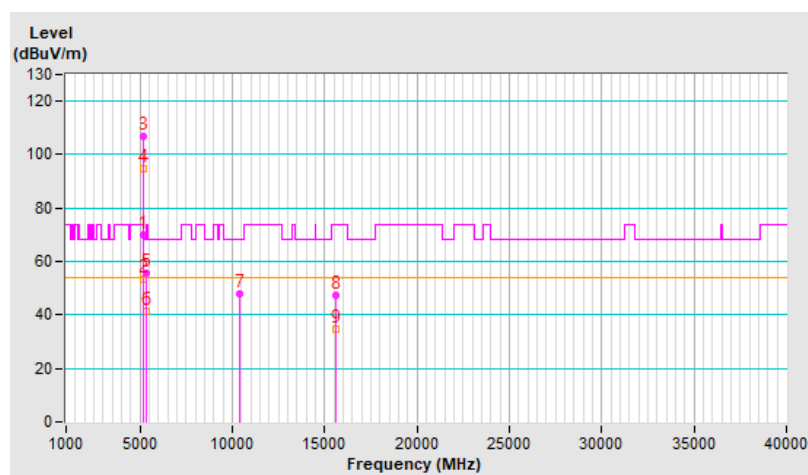


RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	69.8 PK	74.0	-4.2	1.50 H	24	67.2	2.6
2	5150.00	53.6 AV	54.0	-0.4	1.50 H	24	51.0	2.6
3	*5210.00	106.6 PK			1.50 H	24	104.1	2.5
4	*5210.00	94.7 AV			1.50 H	24	92.2	2.5
5	5350.00	55.7 PK	74.0	-18.3	1.50 H	24	53.2	2.5
6	5350.00	41.4 AV	54.0	-12.6	1.50 H	24	38.9	2.5
7	#10420.00	48.1 PK	68.2	-20.1	1.27 H	290	36.5	11.6
8	15630.00	47.4 PK	74.0	-26.6	2.46 H	316	35.7	11.7
9	15630.00	34.5 AV	54.0	-19.5	2.46 H	316	22.8	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.

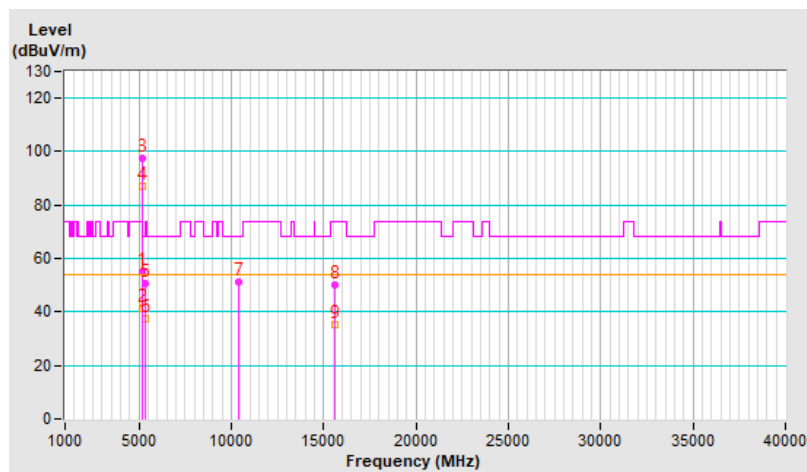


RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	55.2 PK	74.0	-18.8	3.38 V	110	52.6	2.6
2	5150.00	41.1 AV	54.0	-12.9	3.38 V	110	38.5	2.6
3	*5210.00	97.5 PK			3.38 V	110	95.0	2.5
4	*5210.00	87.2 AV			3.38 V	110	84.7	2.5
5	5350.00	50.8 PK	74.0	-23.2	3.38 V	110	48.3	2.5
6	5350.00	37.3 AV	54.0	-16.7	3.38 V	110	34.8	2.5
7	#10420.00	51.0 PK	68.2	-17.2	1.21 V	31	39.4	11.6
8	15630.00	50.3 PK	74.0	-23.7	1.23 V	202	38.6	11.7
9	15630.00	35.1 AV	54.0	-18.9	1.23 V	202	23.4	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.

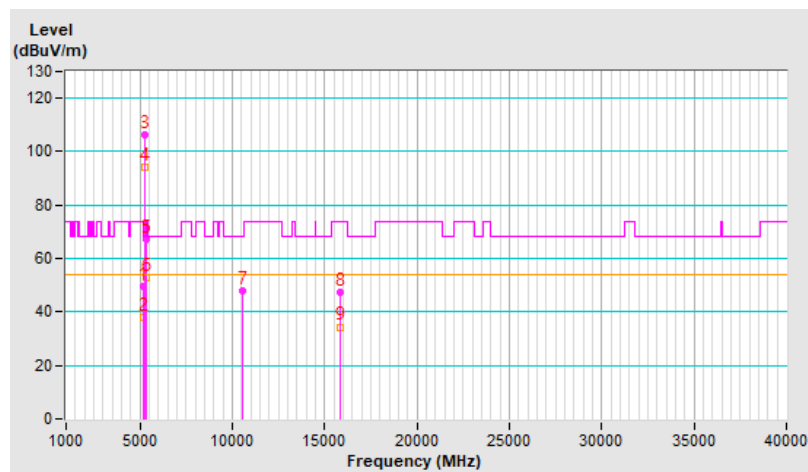


RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	49.5 PK	74.0	-24.5	1.00 H	37	46.9	2.6
2	5150.00	38.0 AV	54.0	-16.0	1.00 H	37	35.4	2.6
3	*5290.00	106.5 PK			1.00 H	37	104.3	2.2
4	*5290.00	94.2 AV			1.00 H	37	92.0	2.2
5	5350.00	67.0 PK	74.0	-7.0	1.00 H	37	64.5	2.5
6	5350.00	53.1 AV	54.0	-0.9	1.00 H	37	50.6	2.5
7	#10580.00	47.9 PK	68.2	-20.3	1.32 H	297	36.5	11.4
8	15870.00	47.2 PK	74.0	-26.8	2.44 H	305	35.4	11.8
9	15870.00	34.4 AV	54.0	-19.6	2.44 H	305	22.6	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.

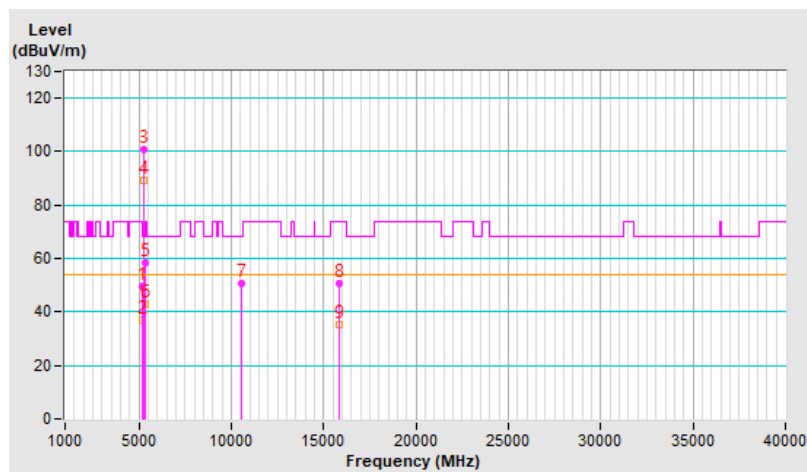


RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	49.5 PK	74.0	-24.5	3.16 V	246	46.9	2.6
2	5150.00	36.8 AV	54.0	-17.2	3.16 V	246	34.2	2.6
3	*5290.00	100.6 PK			3.16 V	246	98.4	2.2
4	*5290.00	89.1 AV			3.16 V	246	86.9	2.2
5	5350.00	58.3 PK	74.0	-15.7	3.16 V	246	55.8	2.5
6	5350.00	43.0 AV	54.0	-11.0	3.16 V	246	40.5	2.5
7	#10580.00	50.8 PK	68.2	-17.4	1.26 V	42	39.4	11.4
8	15870.00	50.6 PK	74.0	-23.4	1.29 V	204	38.8	11.8
9	15870.00	35.3 AV	54.0	-18.7	1.29 V	204	23.5	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.

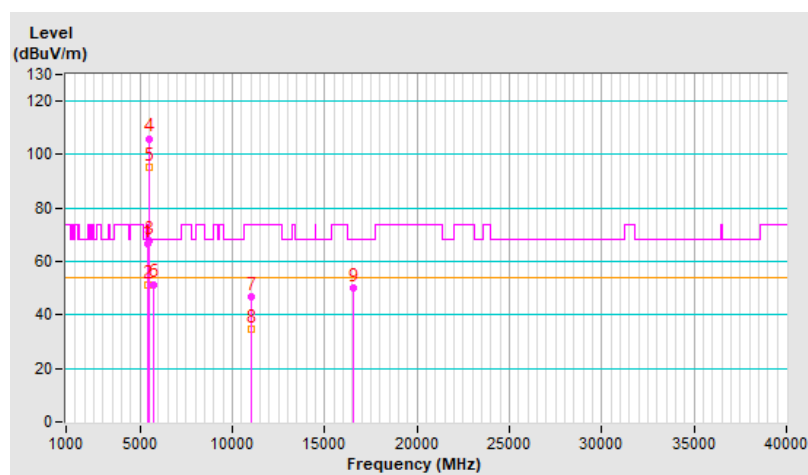


RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	66.7 PK	74.0	-7.3	1.04 H	42	64.1	2.6
2	5460.00	51.0 AV	54.0	-3.0	1.04 H	42	48.4	2.6
3	#5470.00	67.6 PK	68.2	-0.6	1.04 H	42	65.0	2.6
4	*5530.00	106.0 PK			1.04 H	42	103.3	2.7
5	*5530.00	95.1 AV			1.04 H	42	92.4	2.7
6	#5725.00	51.5 PK	68.2	-16.7	1.04 H	42	48.6	2.9
7	11060.00	46.9 PK	74.0	-27.1	1.28 H	317	34.9	12.0
8	11060.00	34.5 AV	54.0	-19.5	1.28 H	317	22.5	12.0
9	#16590.00	50.1 PK	68.2	-18.1	2.47 H	291	35.8	14.3

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.

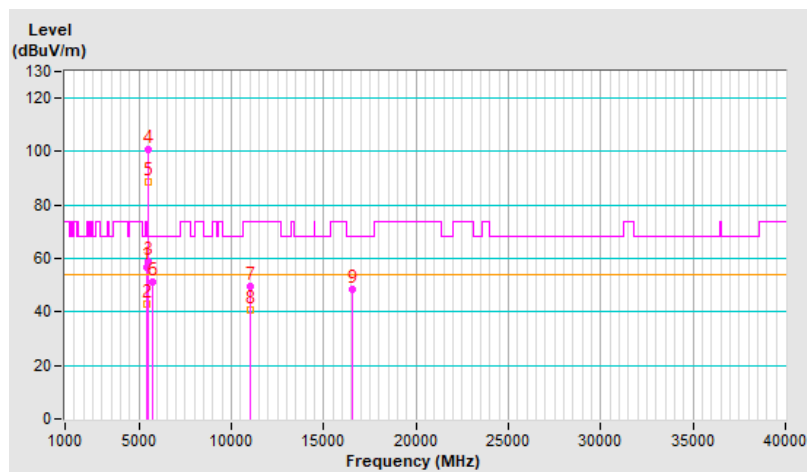


RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.0 PK	74.0	-17.0	4.00 V	86	54.4	2.6
2	5460.00	43.0 AV	54.0	-11.0	4.00 V	86	40.4	2.6
3	#5470.00	59.0 PK	68.2	-9.2	4.00 V	86	56.4	2.6
4	*5530.00	100.6 PK			4.00 V	86	97.9	2.7
5	*5530.00	88.5 AV			4.00 V	86	85.8	2.7
6	#5725.00	51.2 PK	68.2	-17.0	4.00 V	86	48.3	2.9
7	11060.00	49.8 PK	74.0	-24.2	1.13 V	7	37.8	12.0
8	11060.00	40.8 AV	54.0	-13.2	1.13 V	7	28.8	12.0
9	#16590.00	48.4 PK	68.2	-19.8	1.24 V	230	34.1	14.3

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.

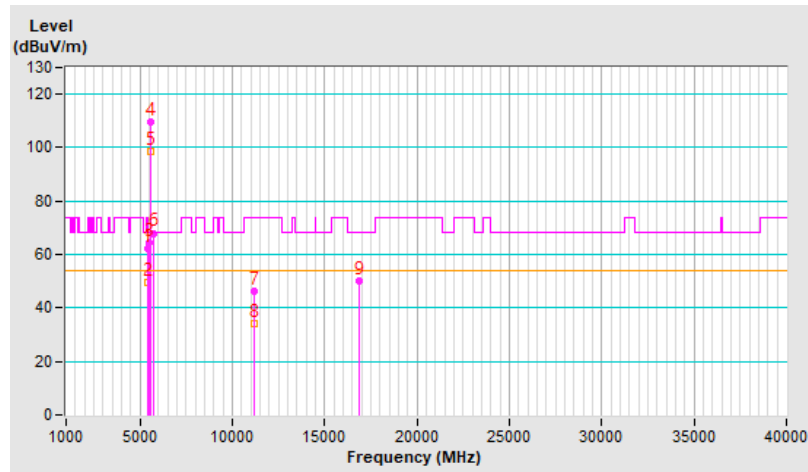


RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.2 PK	74.0	-11.8	1.13 H	36	59.6	2.6
2	5460.00	49.4 AV	54.0	-4.6	1.13 H	36	46.8	2.6
3	#5470.00	64.4 PK	68.2	-3.8	1.13 H	36	61.8	2.6
4	*5610.00	109.8 PK			1.13 H	36	107.1	2.7
5	*5610.00	98.8 AV			1.13 H	36	96.1	2.7
6	#5725.00	68.0 PK	68.2	-0.2	1.13 H	36	65.1	2.9
7	11220.00	46.5 PK	74.0	-27.5	1.26 H	331	34.4	12.1
8	11220.00	34.1 AV	54.0	-19.9	1.26 H	331	22.0	12.1
9	#16830.00	50.3 PK	68.2	-17.9	2.45 H	280	35.1	15.2

Remarks:

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

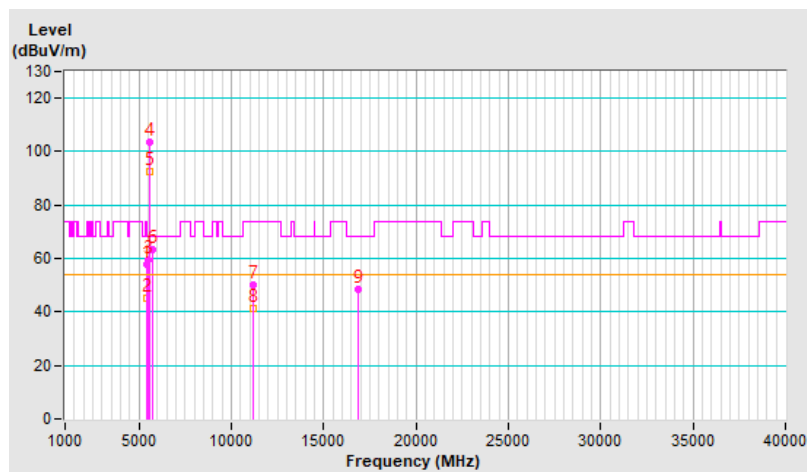


RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.7 PK	74.0	-16.3	3.16 V	253	55.1	2.6
2	5460.00	45.3 AV	54.0	-8.7	3.16 V	253	42.7	2.6
3	#5470.00	59.3 PK	68.2	-8.9	3.16 V	253	56.7	2.6
4	*5610.00	103.4 PK			3.16 V	253	100.7	2.7
5	*5610.00	92.3 AV			3.16 V	253	89.6	2.7
6	#5725.00	63.4 PK	68.2	-4.8	3.16 V	253	60.5	2.9
7	11220.00	50.0 PK	74.0	-24.0	1.15 V	13	37.9	12.1
8	11220.00	41.2 AV	54.0	-12.8	1.15 V	13	29.1	12.1
9	#16830.00	48.7 PK	68.2	-19.5	1.24 V	243	33.5	15.2

Remarks:

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

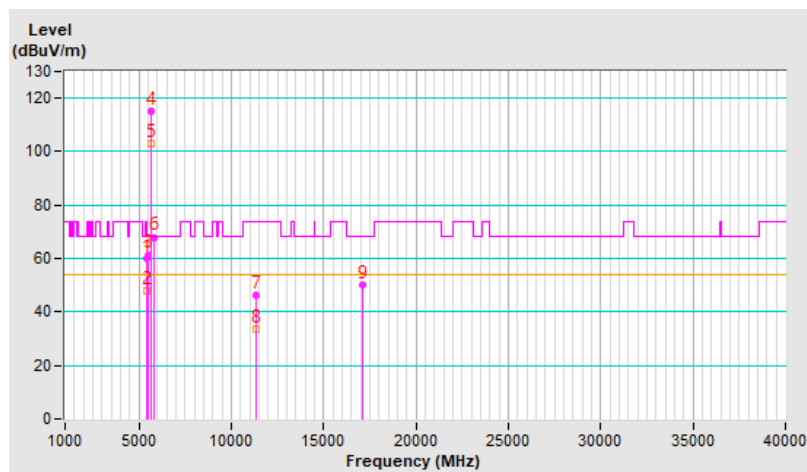


RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.0 PK	74.0	-14.0	1.16 H	23	57.4	2.6
2	5460.00	48.1 AV	54.0	-5.9	1.16 H	23	45.5	2.6
3	#5470.00	61.4 PK	68.2	-6.8	1.16 H	23	58.8	2.6
4	*5690.00	115.0 PK			1.16 H	23	112.2	2.8
5	*5690.00	102.9 AV			1.16 H	23	100.1	2.8
6	#5850.00	68.0 PK	68.2	-0.2	1.16 H	23	64.6	3.4
7	11380.00	46.2 PK	74.0	-27.8	1.26 H	338	34.1	12.1
8	11380.00	33.6 AV	54.0	-20.4	1.26 H	338	21.5	12.1
9	#17070.00	50.2 PK	68.2	-18.0	2.49 H	294	33.6	16.6

Remarks:

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

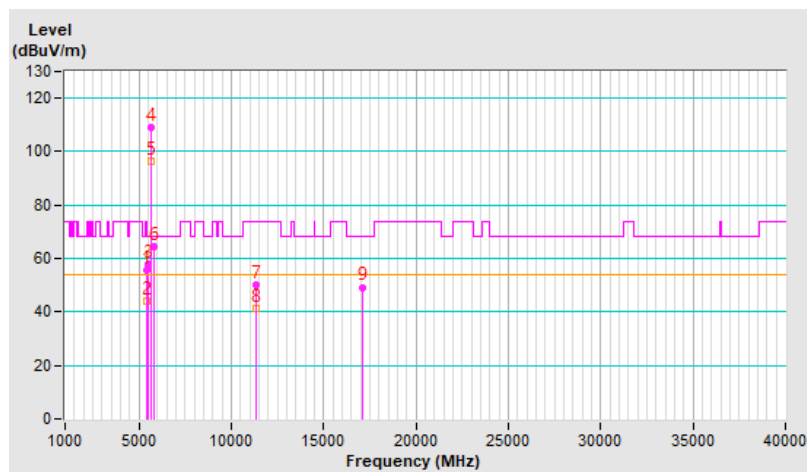


RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	55.6 PK	74.0	-18.4	3.12 V	260	53.0	2.6
2	5460.00	43.8 AV	54.0	-10.2	3.12 V	260	41.2	2.6
3	#5470.00	57.6 PK	68.2	-10.6	3.12 V	260	55.0	2.6
4	*5690.00	108.9 PK			3.12 V	260	106.1	2.8
5	*5690.00	96.4 AV			3.12 V	260	93.6	2.8
6	#5850.00	64.6 PK	68.2	-3.6	3.12 V	260	61.2	3.4
7	11380.00	50.1 PK	74.0	-23.9	1.15 V	21	38.0	12.1
8	11380.00	41.2 AV	54.0	-12.8	1.15 V	21	29.1	12.1
9	#17070.00	49.3 PK	68.2	-18.9	1.29 V	231	32.7	16.6

Remarks:

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

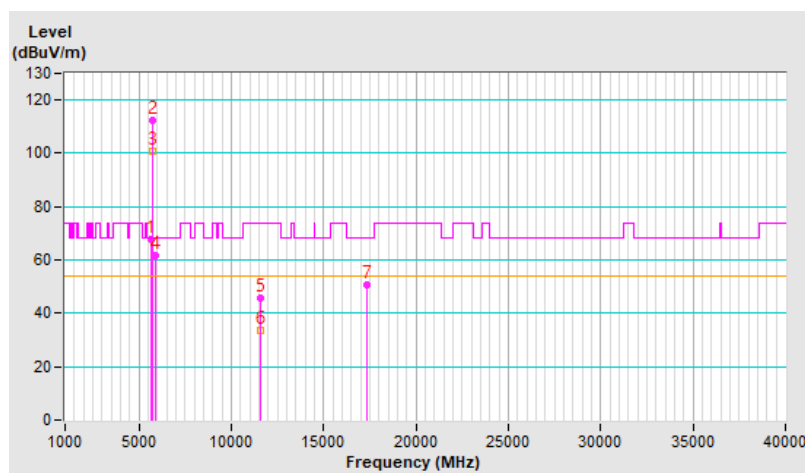


RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	#5645.64	67.6 PK	68.2	-0.6	1.00 H	34	64.8	2.8
2	*5775.00	112.5 PK			1.00 H	34	109.3	3.2
3	*5775.00	100.6 AV			1.00 H	34	97.4	3.2
4	#5924.26	61.8 PK	68.2	-6.4	1.00 H	34	58.3	3.5
5	11550.00	45.8 PK	74.0	-28.2	1.23 H	327	33.8	12.0
6	11550.00	33.4 AV	54.0	-20.6	1.23 H	327	21.4	12.0
7	#17325.00	50.6 PK	68.2	-17.6	2.49 H	304	33.8	16.8

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.

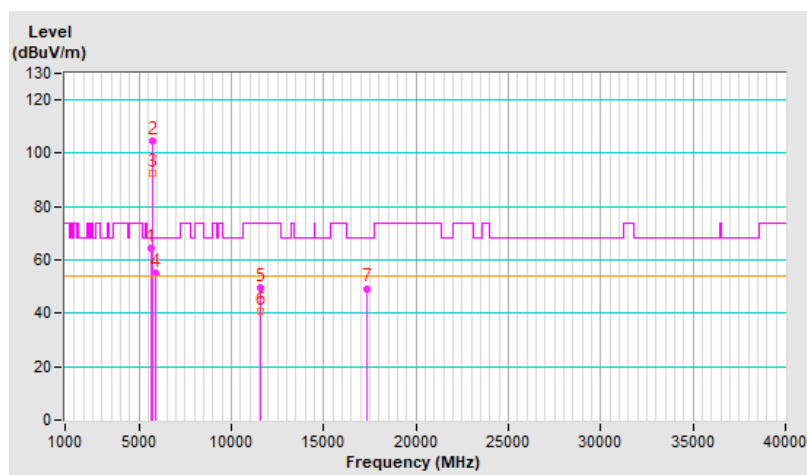


RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.72	64.4 PK	68.2	-3.8	3.80 V	87	61.6	2.8
2	*5775.00	104.5 PK			3.80 V	87	101.3	3.2
3	*5775.00	92.3 AV			3.80 V	87	89.1	3.2
4	#5928.40	55.1 PK	68.2	-13.1	3.80 V	87	51.6	3.5
5	11550.00	49.5 PK	74.0	-24.5	1.17 V	20	37.5	12.0
6	11550.00	40.9 AV	54.0	-13.1	1.17 V	20	28.9	12.0
7	#17325.00	49.3 PK	68.2	-18.9	1.33 V	231	32.5	16.8

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.

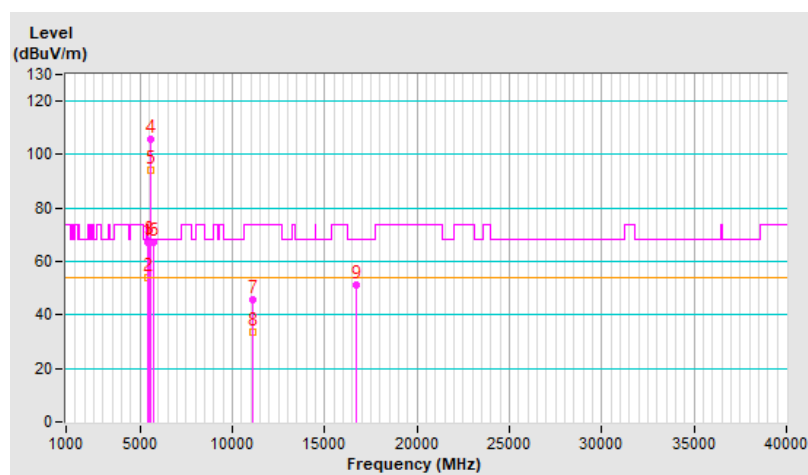


RF Mode	802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	67.4 PK	74.0	-6.6	1.06 H	44	64.8	2.6
2	5460.00	53.9 AV	54.0	-0.1	1.06 H	44	51.3	2.6
3	#5470.00	67.8 PK	68.2	-0.4	1.06 H	44	65.2	2.6
4	*5570.00	105.5 PK			1.06 H	44	102.8	2.7
5	*5570.00	94.2 AV			1.06 H	44	91.5	2.7
6	#5725.00	67.2 PK	68.2	-1.0	1.06 H	44	64.3	2.9
7	11140.00	45.9 PK	74.0	-28.1	1.27 H	333	33.9	12.0
8	11140.00	33.5 AV	54.0	-20.5	1.27 H	333	21.5	12.0
9	#16710.00	51.0 PK	68.2	-17.2	2.43 H	319	36.5	14.5

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.

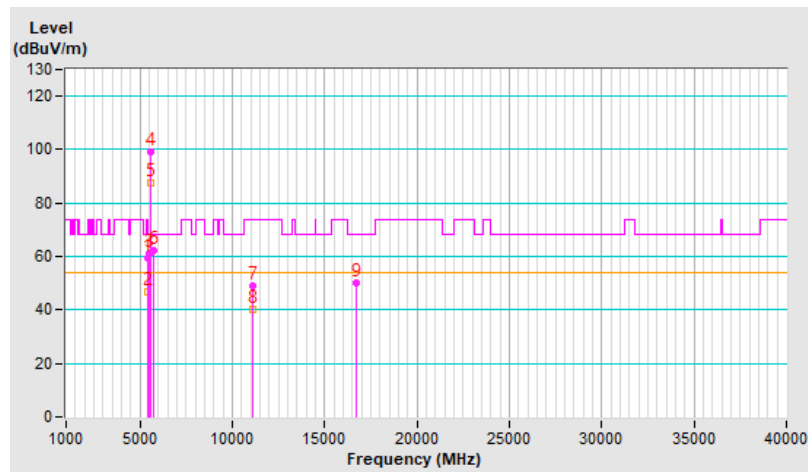


RF Mode	802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	59.5 PK	74.0	-14.5	3.84 V	91	56.9	2.6
2	5460.00	46.8 AV	54.0	-7.2	3.84 V	91	44.2	2.6
3	#5470.00	60.9 PK	68.2	-7.3	3.84 V	91	58.3	2.6
4	*5570.00	99.3 PK			3.84 V	91	96.6	2.7
5	*5570.00	87.5 AV			3.84 V	91	84.8	2.7
6	#5725.00	62.0 PK	68.2	-6.2	3.84 V	91	59.1	2.9
7	11140.00	48.9 PK	74.0	-25.1	1.21 V	15	36.9	12.0
8	11140.00	40.4 AV	54.0	-13.6	1.21 V	15	28.4	12.0
9	#16710.00	49.9 PK	68.2	-18.3	1.36 V	240	35.4	14.5

Remarks:

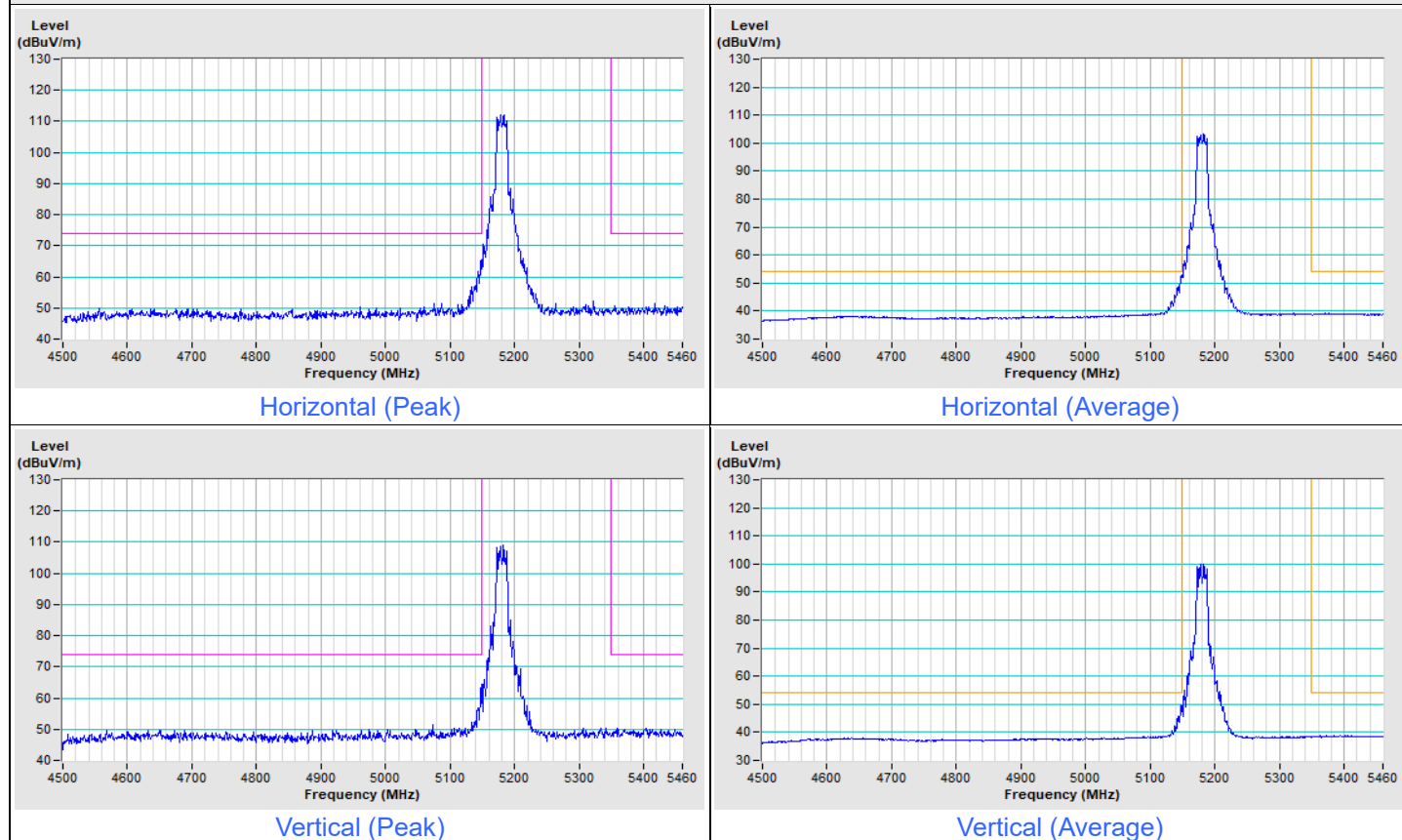
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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



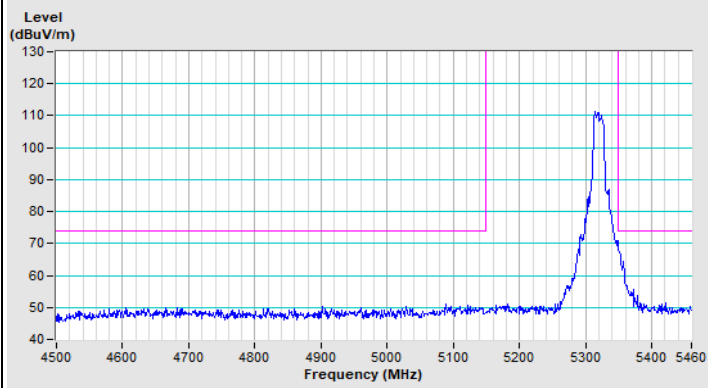
Plot of Band Edge

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
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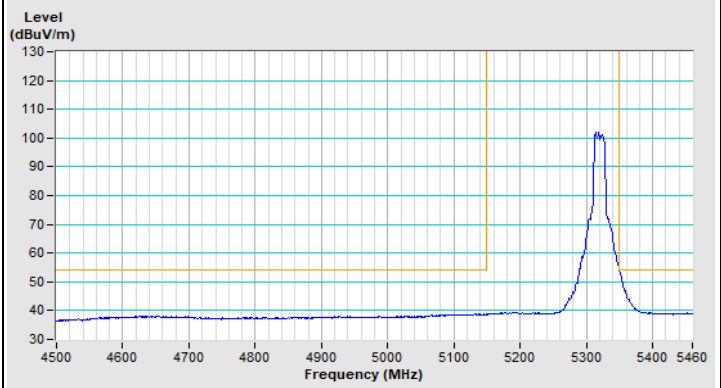
802.11a Channel 36



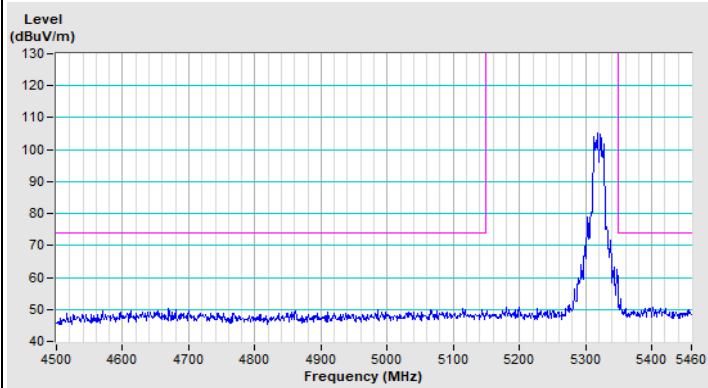
802.11a Channel 64



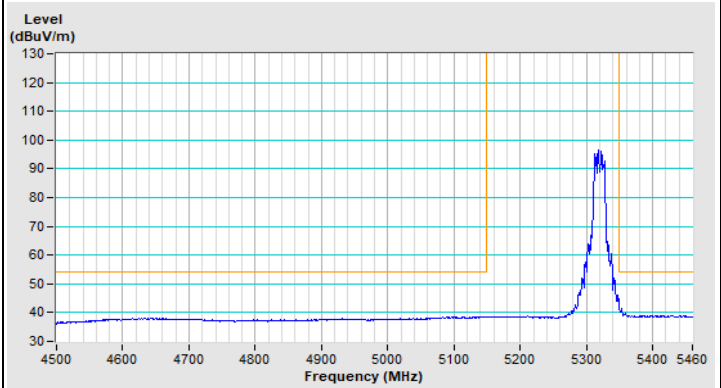
Horizontal (Peak)



Horizontal (Average)



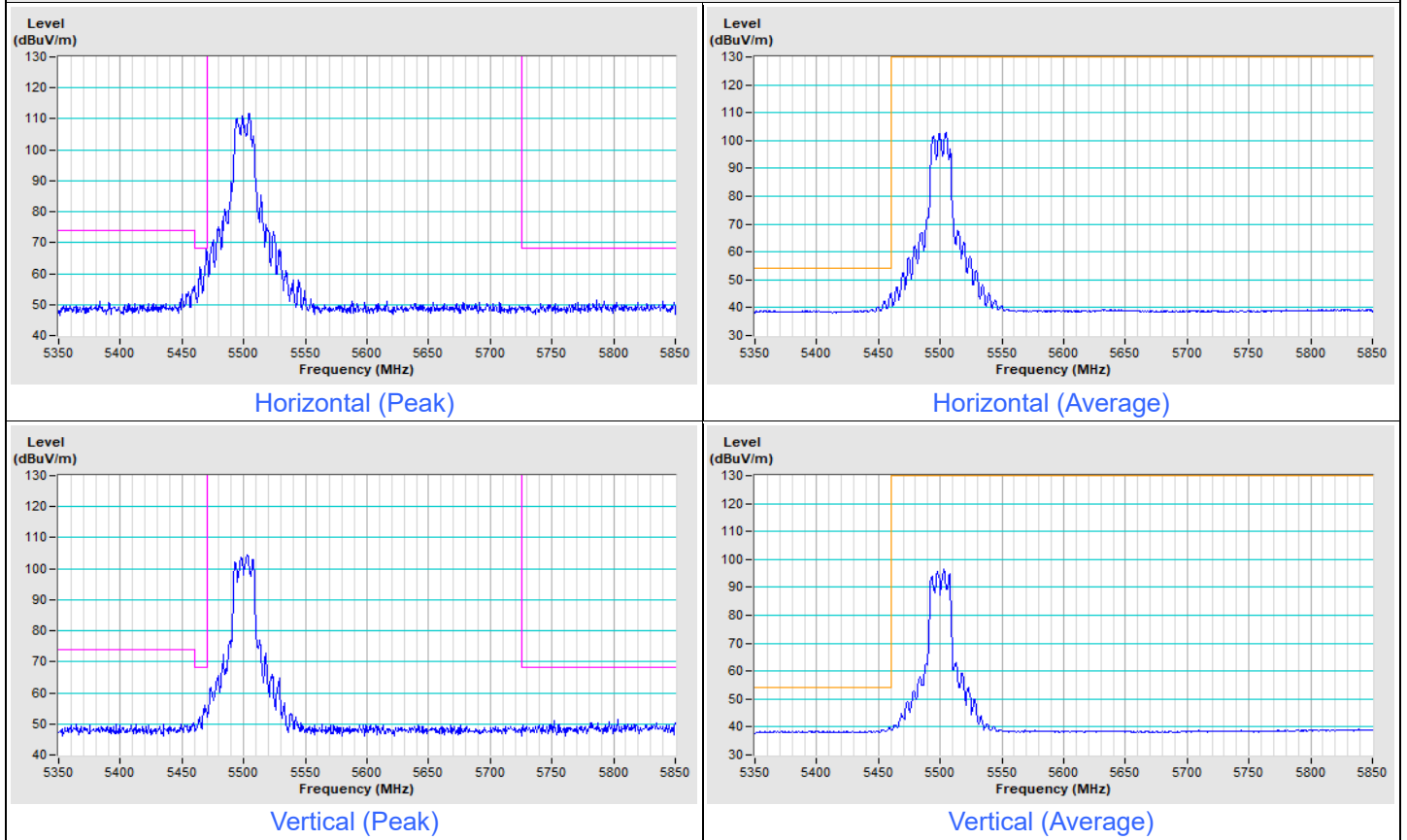
Vertical (Peak)



Vertical (Average)

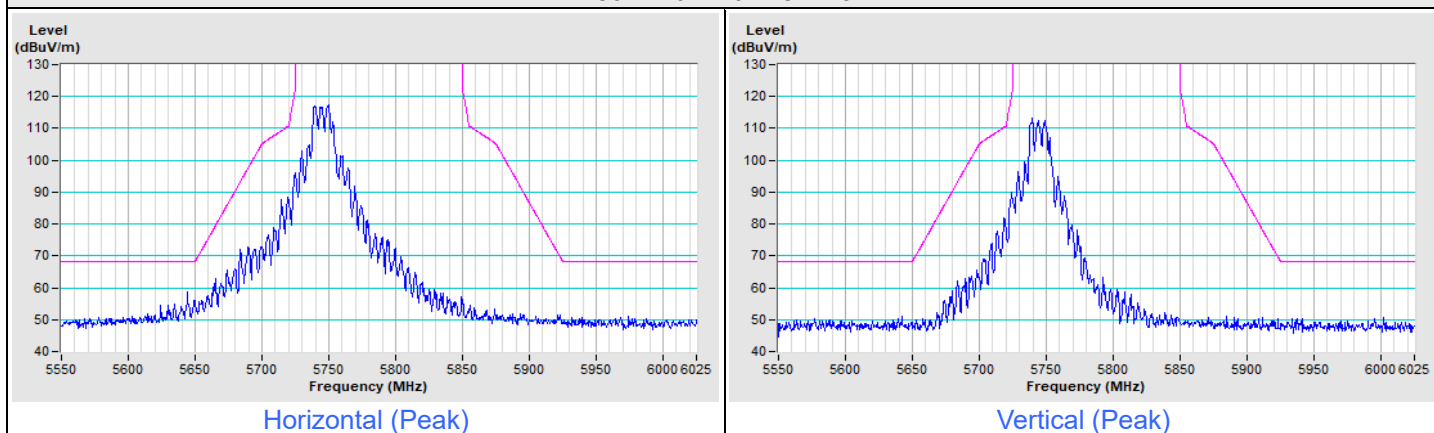
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
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802.11a Channel 100

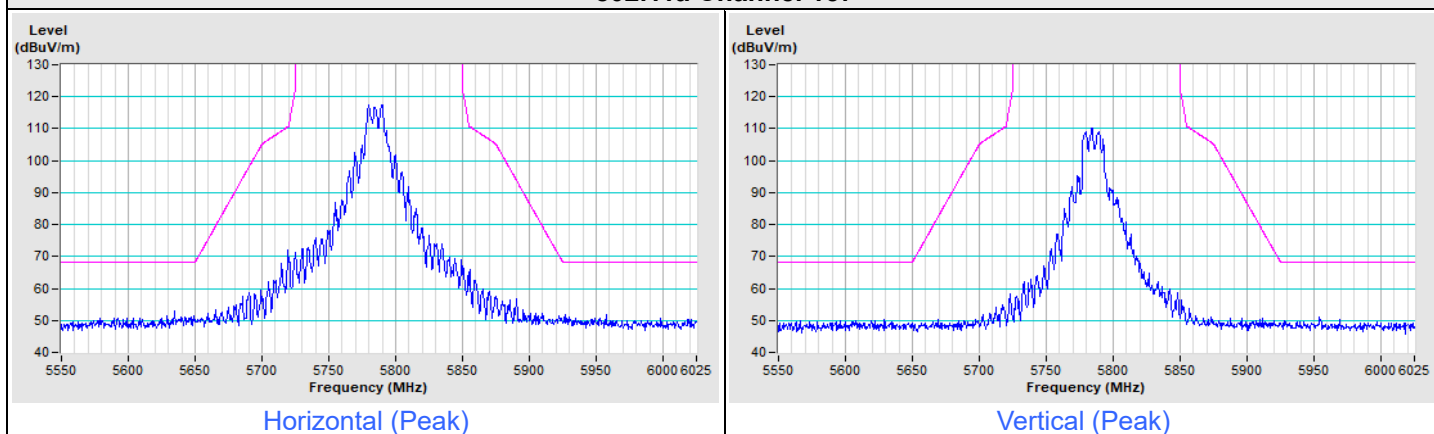


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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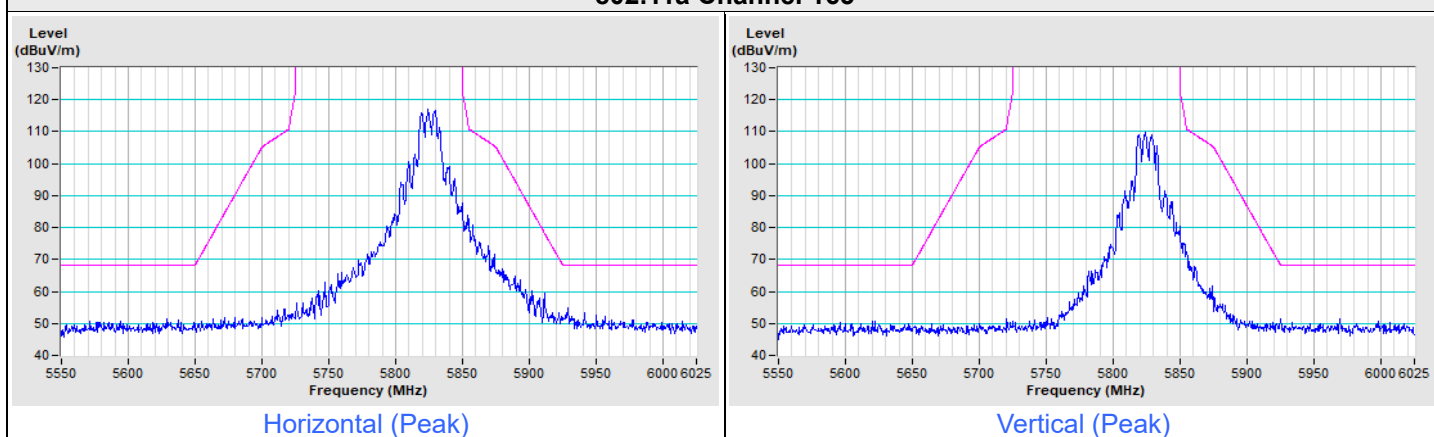
802.11a Channel 149



802.11a Channel 157

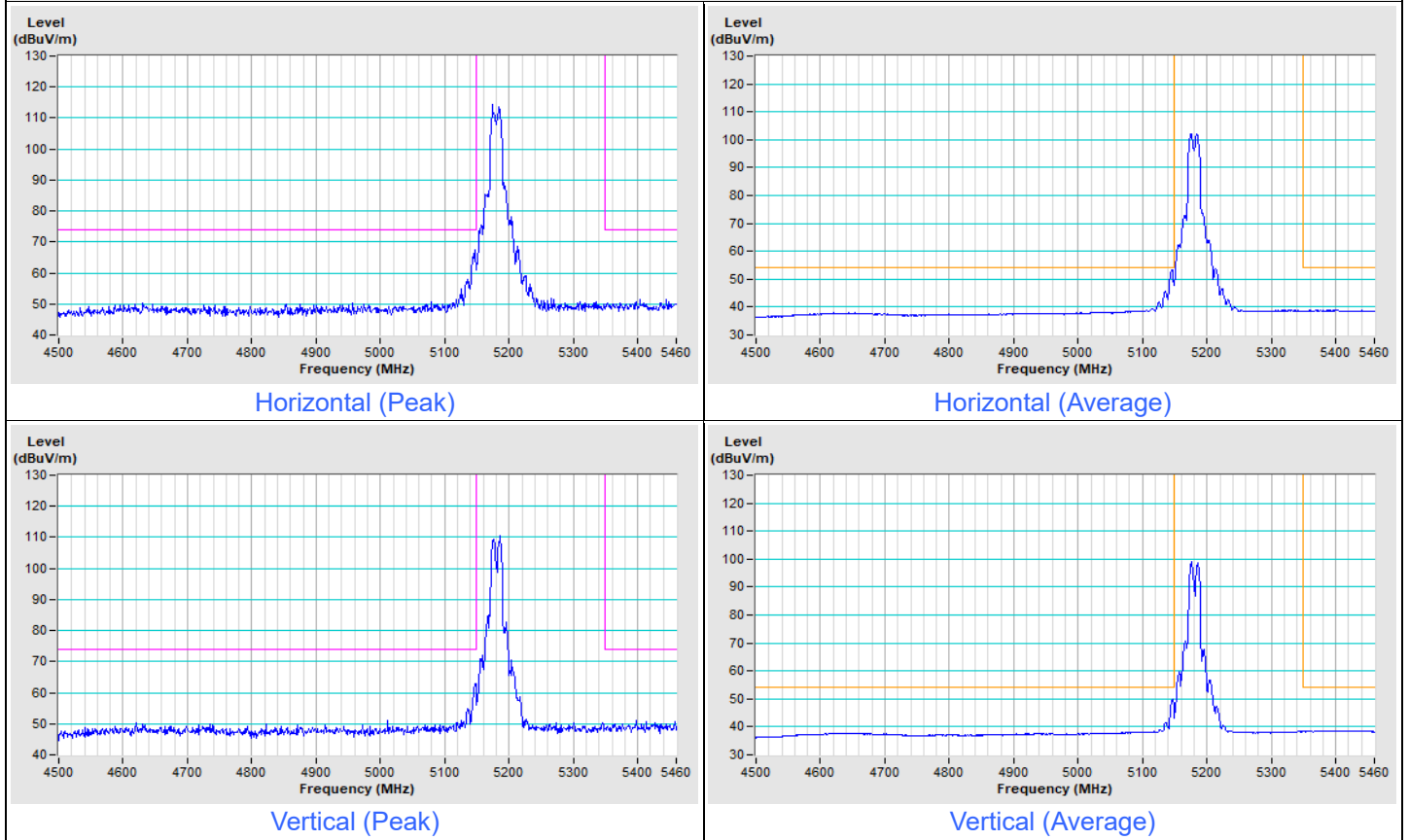


802.11a Channel 165

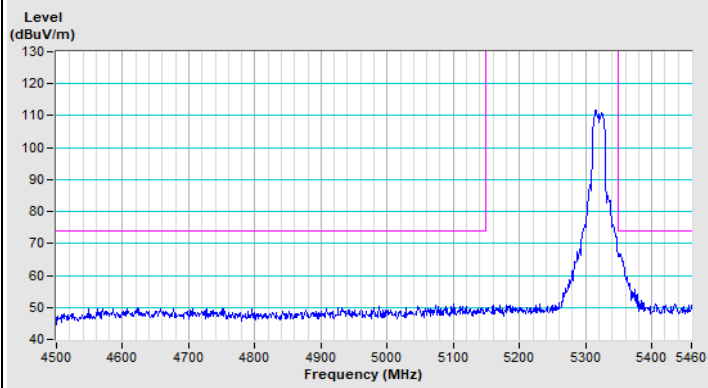


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
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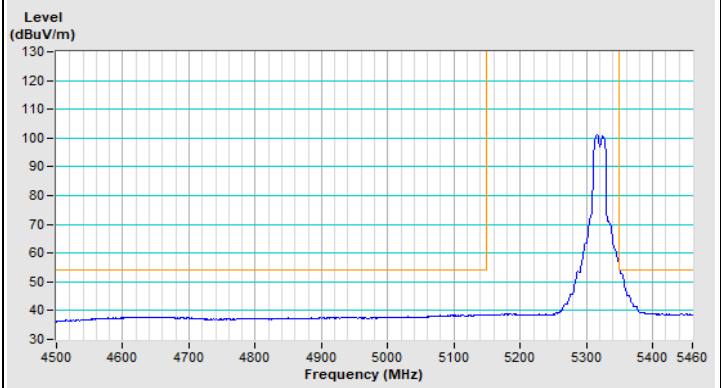
802.11ax (HE20) Channel 36



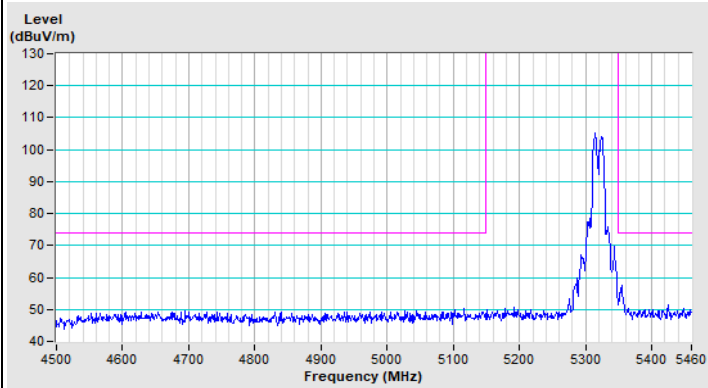
802.11ax (HE20) Channel 64



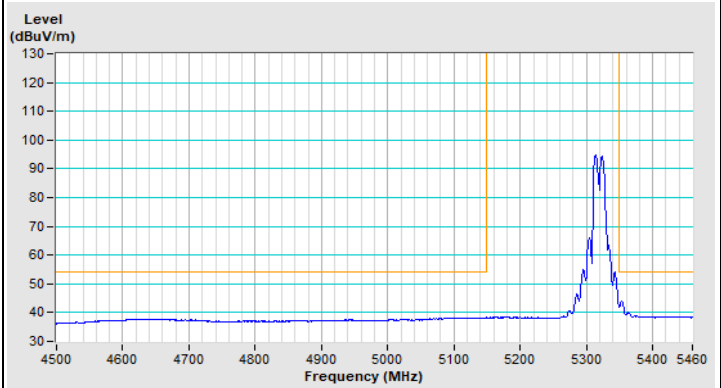
Horizontal (Peak)



Horizontal (Average)



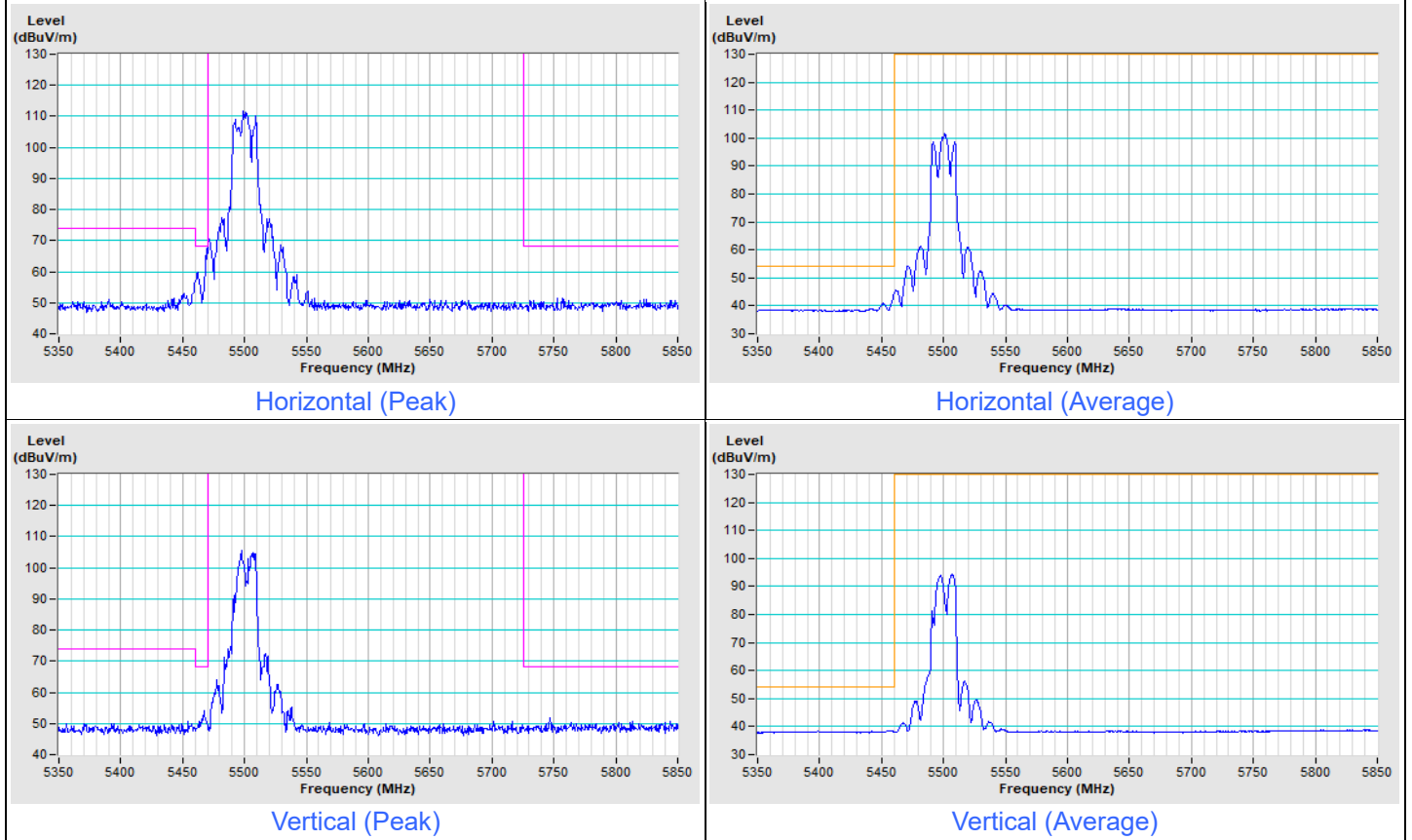
Vertical (Peak)



Vertical (Average)

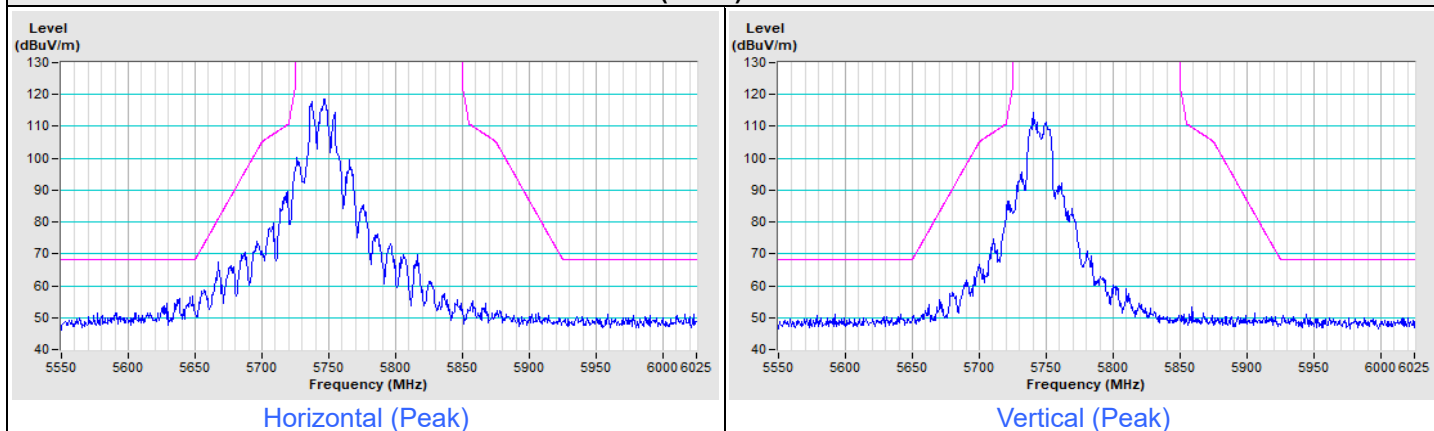
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
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802.11ax (HE20) Channel 100

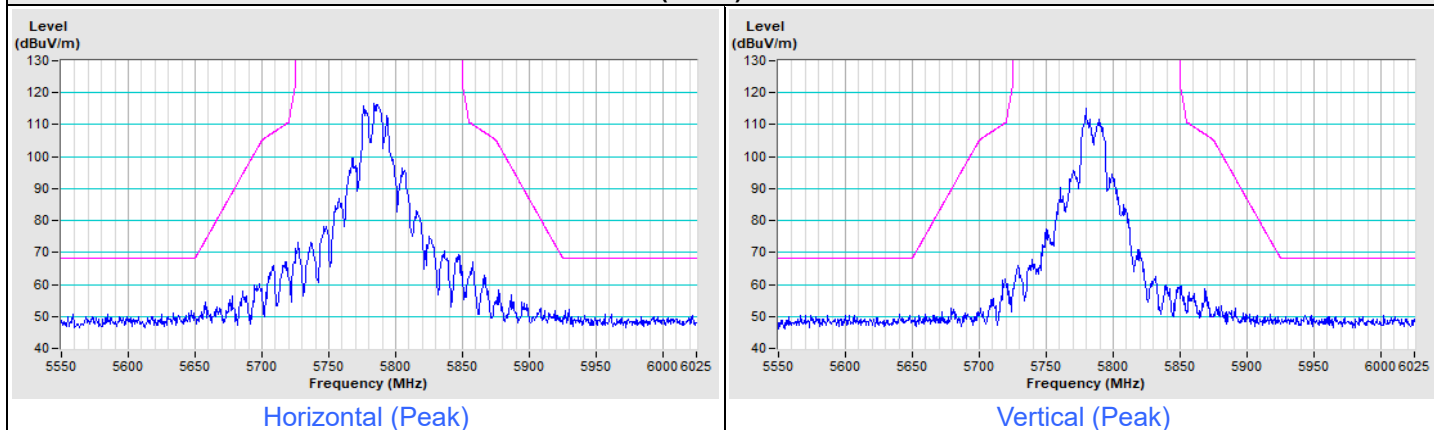


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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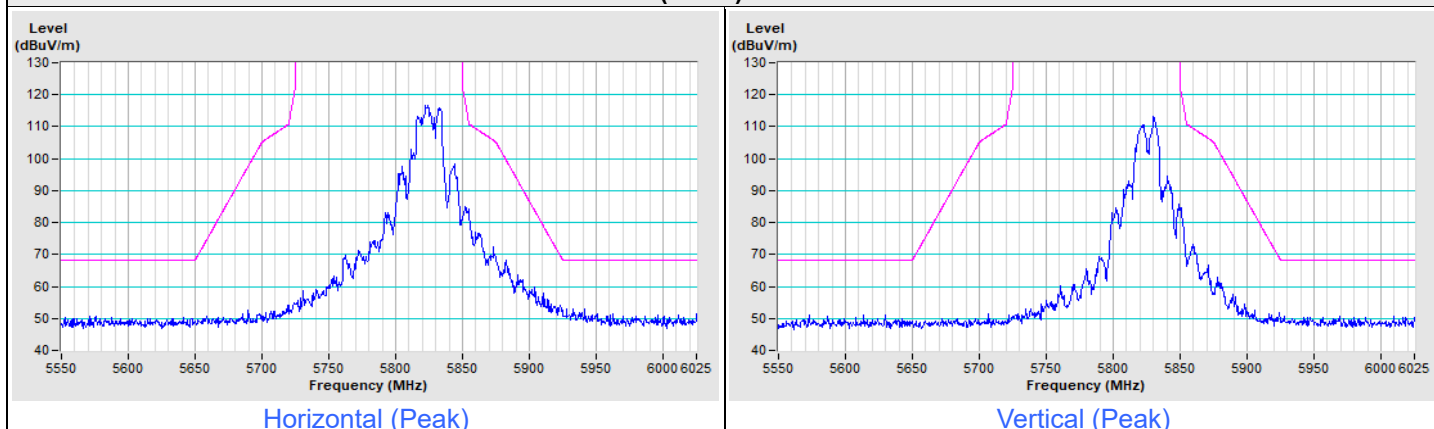
802.11ax (HE20) Channel 149



802.11ax (HE20) Channel 157

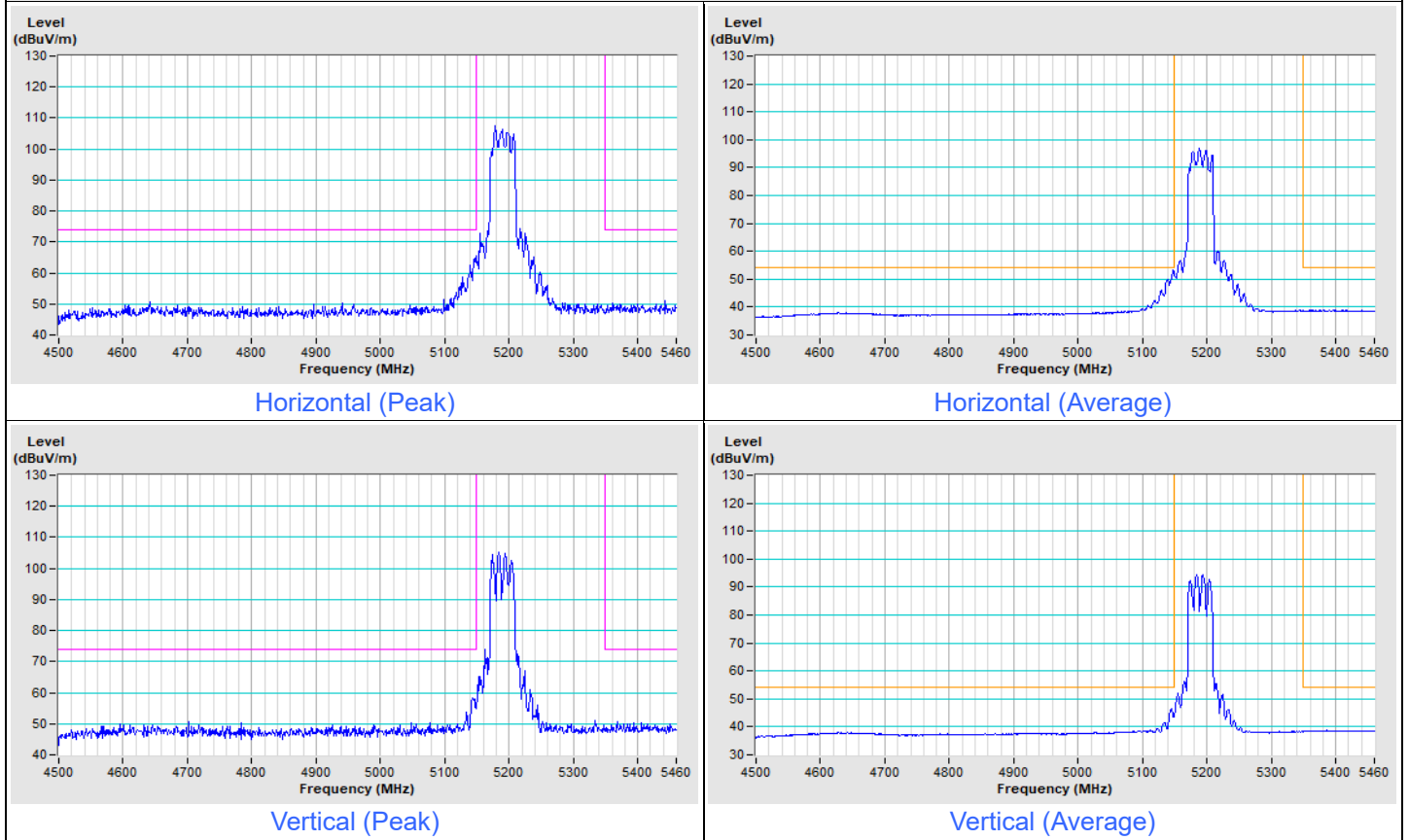


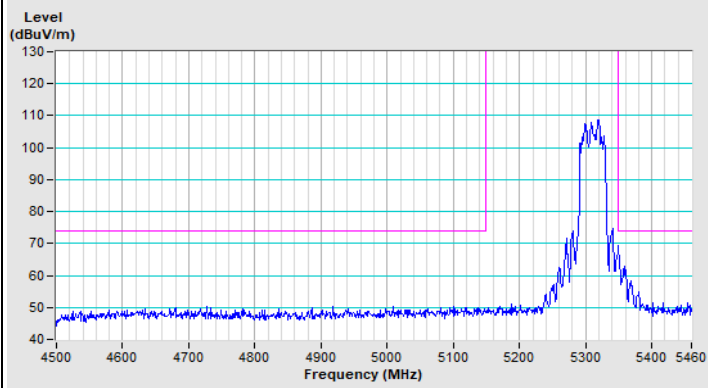
802.11ax (HE20) Channel 165



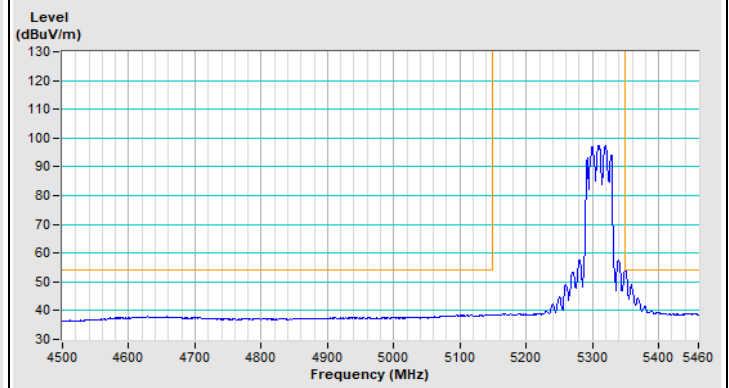
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
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802.11ax (HE40) Channel 38

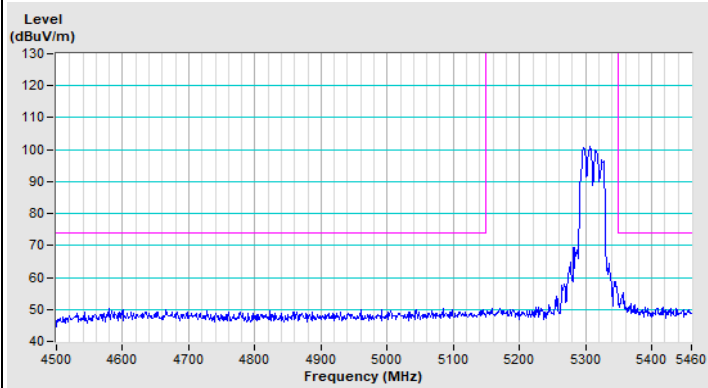


802.11ax (HE40) Channel 62

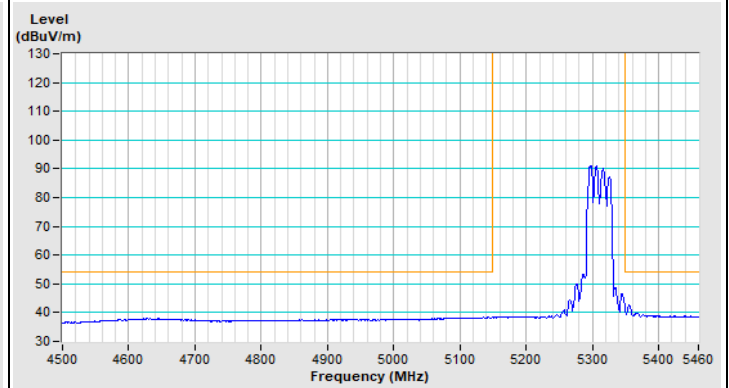
Horizontal (Peak)



Horizontal (Average)



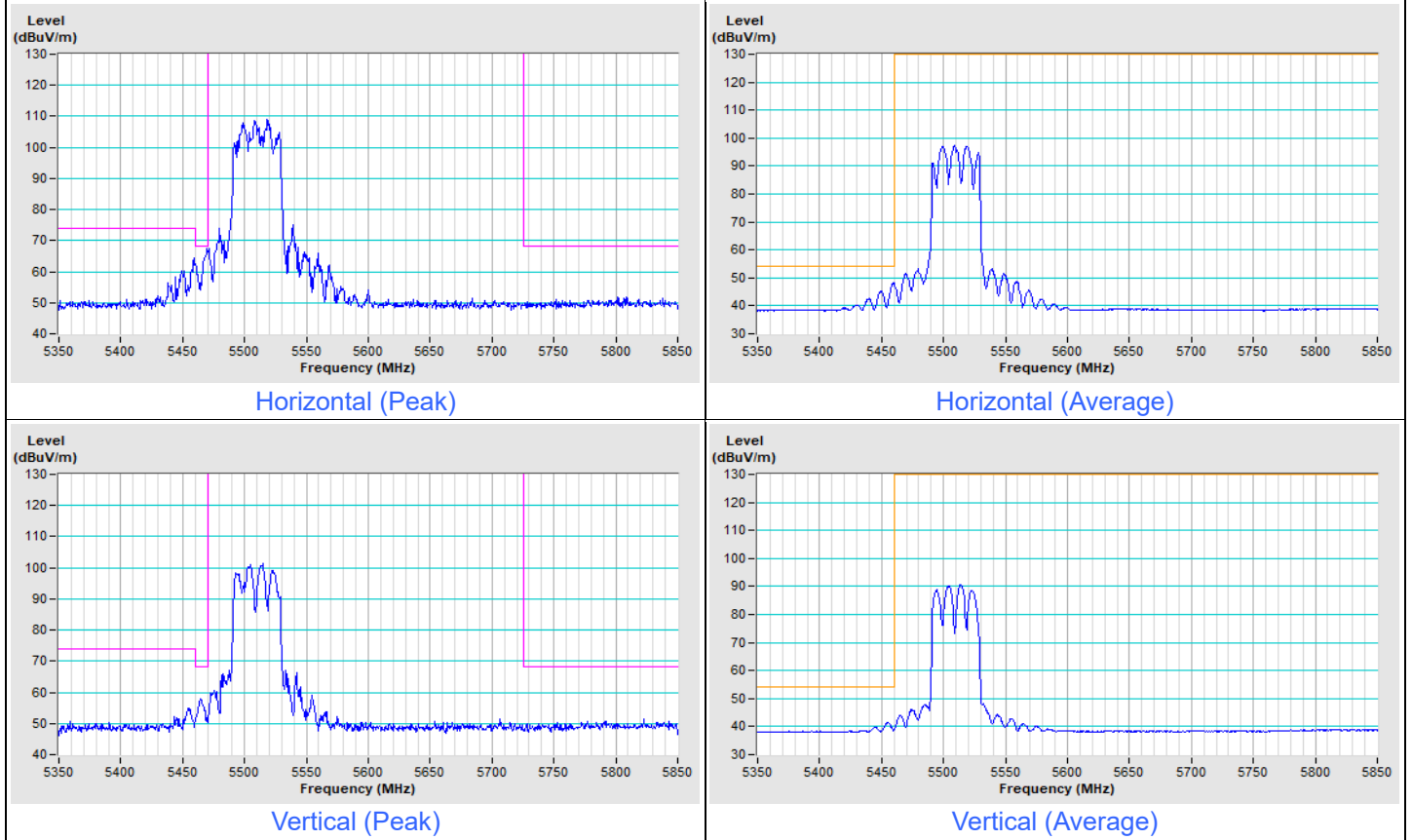
Vertical (Peak)



Vertical (Average)

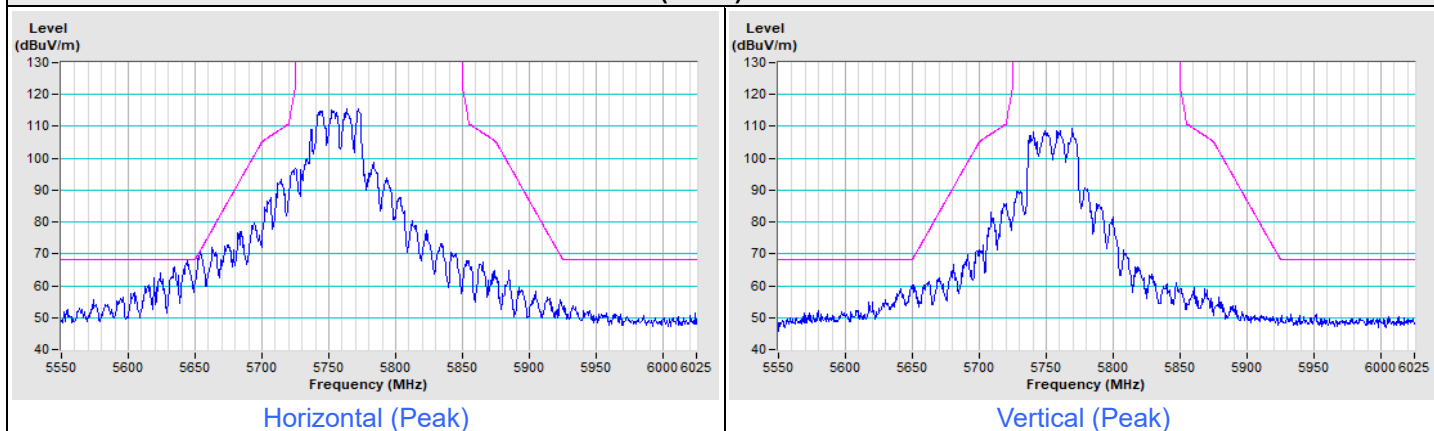
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
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802.11ax (HE40) Channel 102

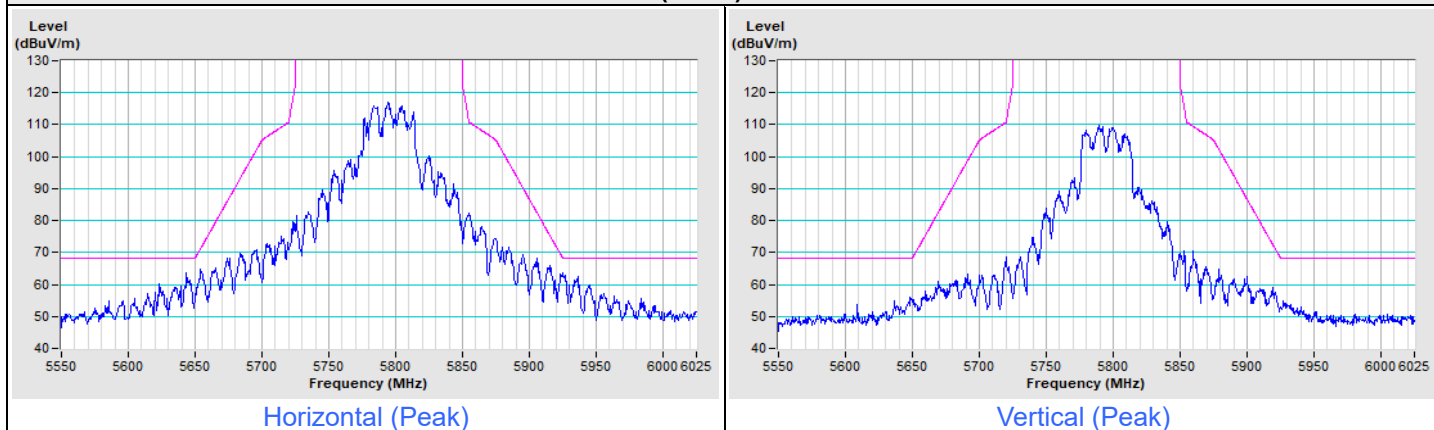


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE40) Channel 151

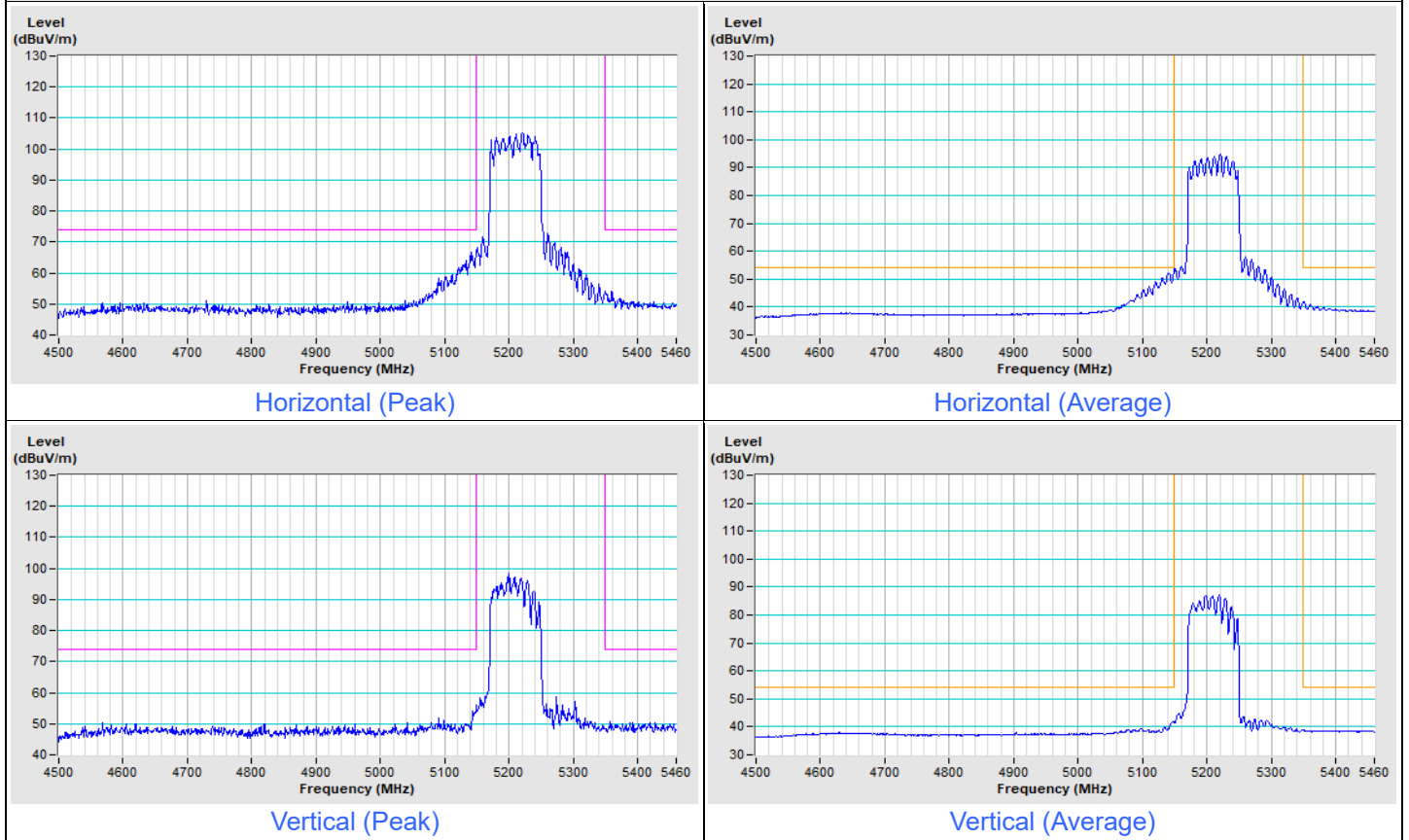


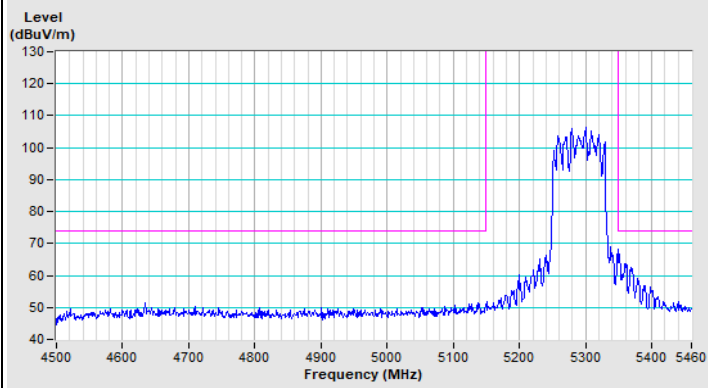
802.11ax (HE40) Channel 159



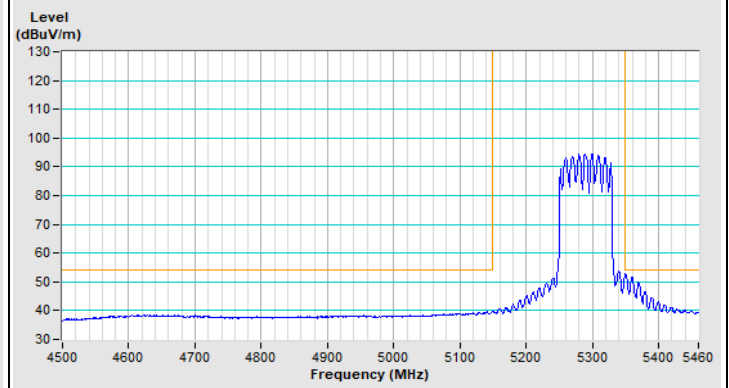
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
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802.11ax (HE80) Channel 42

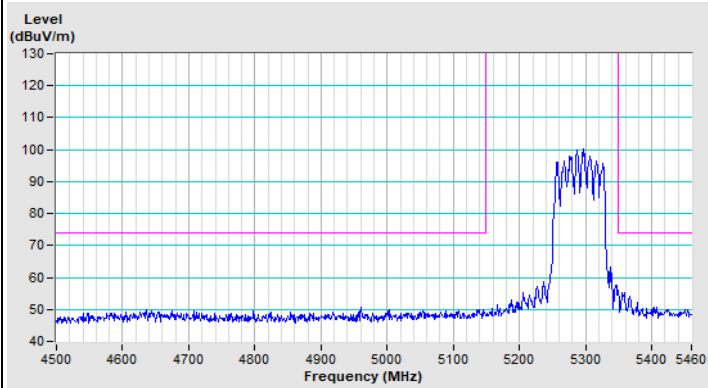


802.11ax (HE80) Channel 58

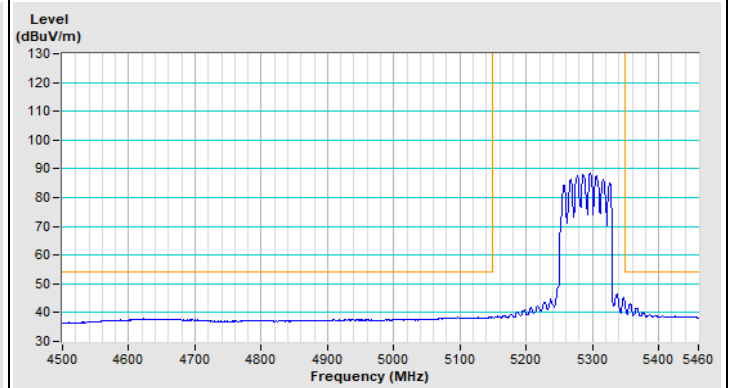
Horizontal (Peak)



Horizontal (Average)



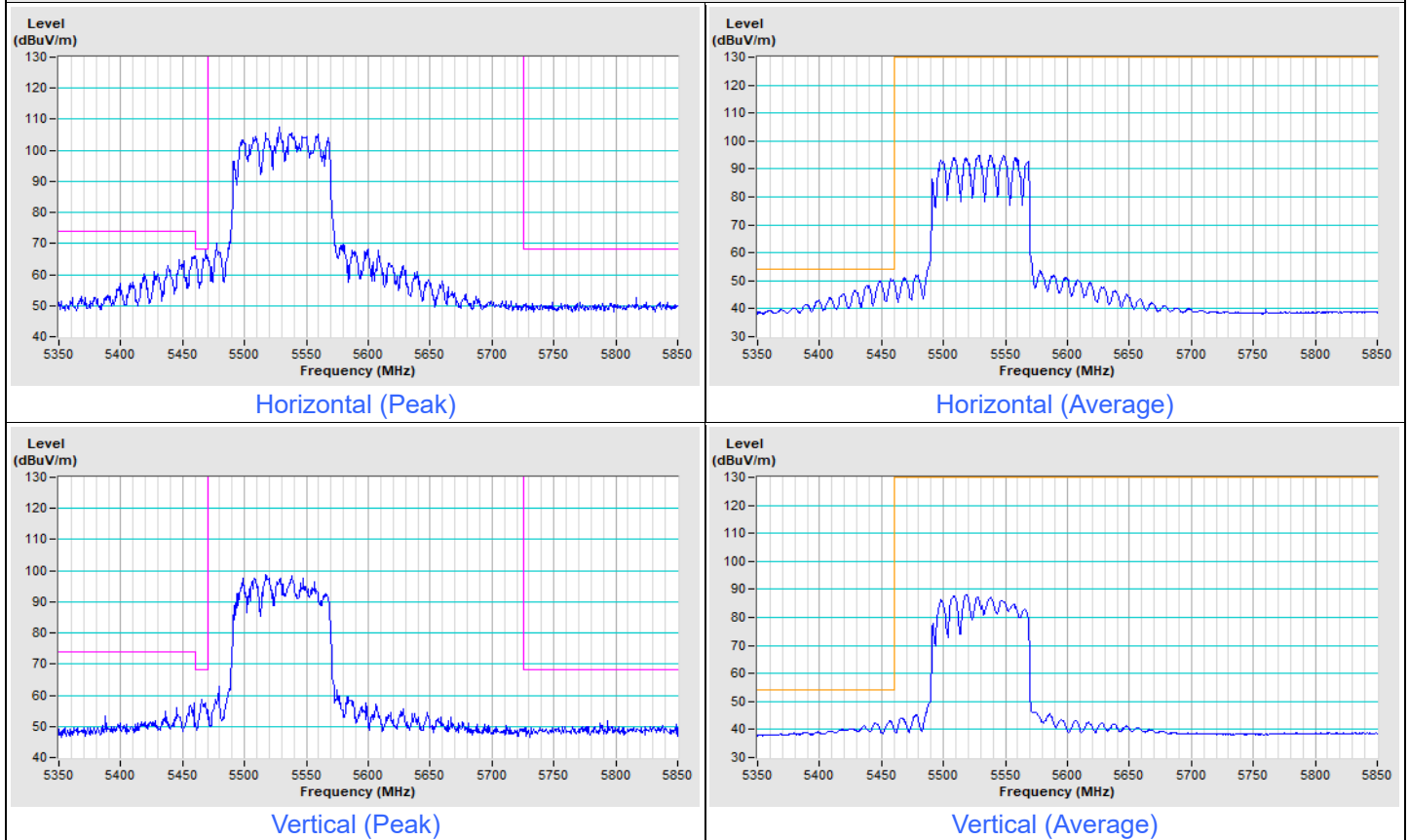
Vertical (Peak)



Vertical (Average)

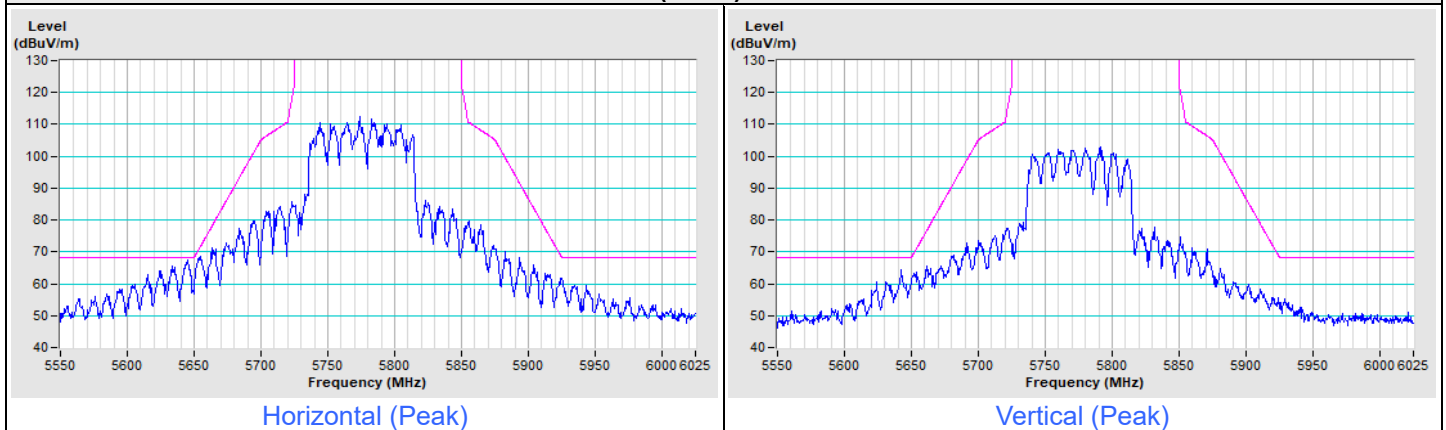
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
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802.11ax (HE80) Channel 106



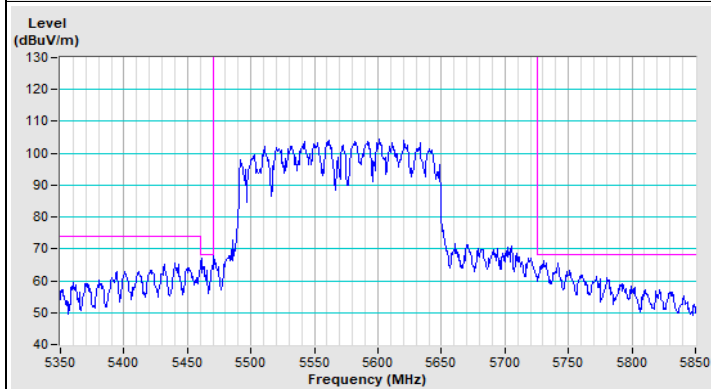
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE80) Channel 155

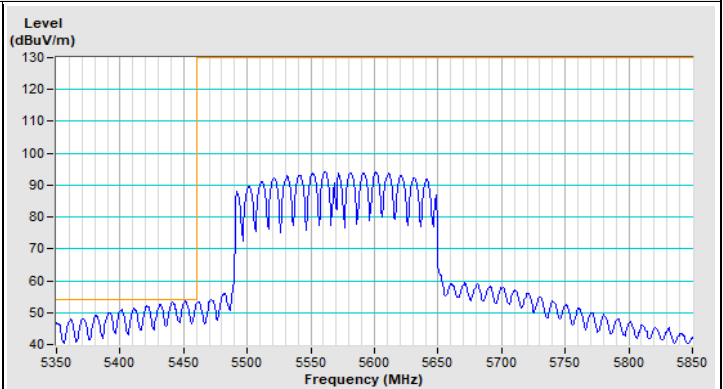


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
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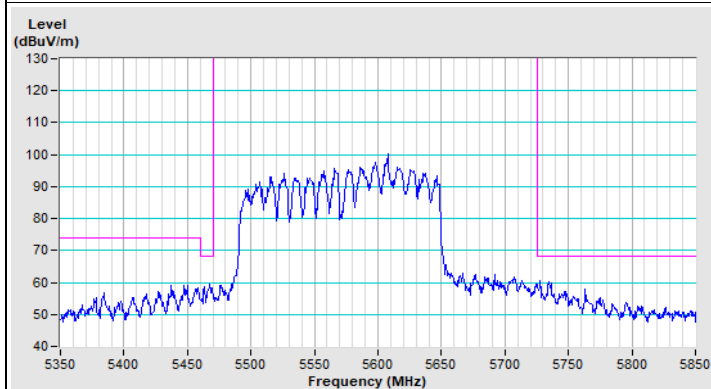
802.11ax (HE160) Channel 114



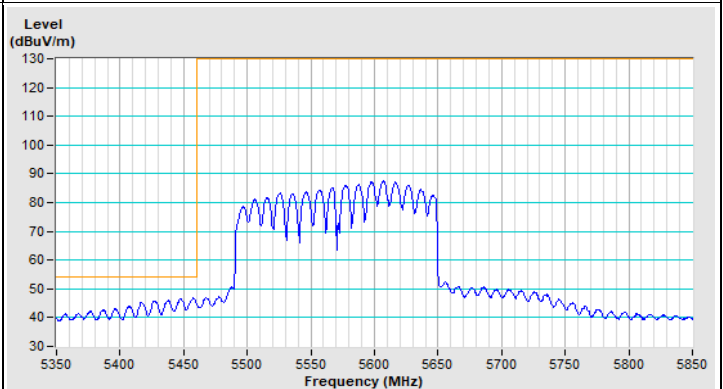
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

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

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

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