TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBDQY-WTW-P23110009-1

FCC ID: 2A9V3PAX5400

Product: WiFi Access Point

Brand: Plasma Cloud Pte. Ltd.

Model No.: PAX5400

Received Date: 2023/11/1

Test Date: 2023/12/18 ~ 2024/2/6

Issued Date: 2024/3/14

Applicant: Plasma Cloud Pte. Ltd.

Address: 10 Anson Road 33-03 International Plaza, Singapore 079903

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 / Designation Number: 723255 / TW2022

Approved by: Wen Yu , **Date:** **2024/3/14**

Wen Yu / Assistant Manager

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Prepared by : Vito Lung / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBDQY-WTW-P23110009-1	Original release.	2024/3/14

1 Certificate

Product:	WiFi Access Point
Brand:	Plasma Cloud Pte. Ltd.
Test Model:	PAX5400
Sample Status:	Engineering sample
Applicant:	Plasma Cloud Pte. Ltd.
Test Date:	2023/12/18 ~ 2024/2/6
Standard:	47 CFR FCC Part 15, Subpart E (Section 15.407)
Measurement procedure:	ANSI C63.10-2013 KDB 789033 D02 General UNII Test Procedure New Rules v02r01 KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -16.53 dB at 0.17734 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.1 dB at 34.32 and 621.83 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 5470.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. 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
Frequency Stability	-	0.16 ppm
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	WiFi Access Point
Brand	Plasma Cloud Pte. Ltd.
Test Model	PAX5400
Status of EUT	Engineering sample
Power Supply Rating	12 Vdc from adapter or 48~54 Vdc from POE
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54Mbps 802.11n: up to 300Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 2401.9Mbps
Operating Frequency	5.18 GHz ~ 5.25 GHz 5.25 GHz ~ 5.32 GHz 5.5 GHz ~ 5.7 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 24 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 11 802.11ac (VHT80), 802.11ax (HE80): 5 802.11ac (VHT160), 802.11ax (HE160): 2
Output Power	**CDD Mode:** 5.18 GHz ~ 5.25 GHz: 611.01 mW (27.86 dBm) 5.25 GHz ~ 5.32 GHz: 208.103 mW (23.18 dBm) 5.5 GHz ~ 5.7 GHz: 234.619 mW (23.7 dBm) 5.745 GHz ~ 5.825 GHz: 877.657 mW (29.43 dBm) **Beamforming Mode:** 5.18 GHz ~ 5.25 GHz: 532.775 mW (27.27 dBm) 5.25 GHz ~ 5.32 GHz: 131.304 mW (21.18 dBm) 5.5 GHz ~ 5.7 GHz: 131.936 mW (21.20 dBm) 5.745 GHz ~ 5.825 GHz: 510.704 mW (27.08 dBm)
EUT Category	Indoor Access Point

Note:

1. There are WLAN (2.4 GHz & 5 GHz & 6 GHz) technology used for the EUT.
2. Simultaneously transmission condition.

Condition	Technology		
1	WLAN (2.4 GHz)	WLAN (5 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 refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	RF Chain No.	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	2.4G Chain 0	4.3	2.4~2.4835	PIFA	ipex(MHF)	115
2	2.4G Chain 1	3.6	2.4~2.4835	PIFA	ipex(MHF)	215
3	5G Chain 0	4.4 4.6 5.2 5.4	5.15~5.25 5.25~5.35 5.47~5.725 5.725~5.85	PIFA	ipex(MHF)	180
4	5G Chain 1	6.0 5.8 5.5 4.9	5.15~5.25 5.25~5.35 5.47~5.725 5.725~5.85	PIFA	ipex(MHF)	234
5	6G Chain 0	5.8 5.8 6.0 6.0	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	ipex(MHF)	165
6	6G Chain 1	5.2 4.3 5.2 5.8	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	ipex(MHF)	205

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

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

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

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5700 MHz

11 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		

5 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		

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

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz

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

Channel	Frequency
114	5570 MHz

FOR 5745 ~ 5825 MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The POE and AC Adapter has the following models: POE31U-1AT(POE) / WA-36W12R(Adapter), Pre-scan these models of POEs and AC Adapter and find the worst case as a representative test condition. 2. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 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. POE or Adapter Worst Condition: POE Mode 2. X-axis/ Y-axis/ Z-axis Worst Condition: Y-axis

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	CDD	52, 60, 64	BPSK	6Mb/s
			100, 116, 140		
	802.11ax (HE20)		52, 60, 64	BPSK	MCS0
			100, 116, 140		
	802.11ax (HE40)		54, 62	BPSK	MCS0
			102, 110, 134		
	802.11ax (HE80)		58	BPSK	MCS0
			106		
			122		
	802.11ax (HE160)		50	BPSK	MCS0
			114		

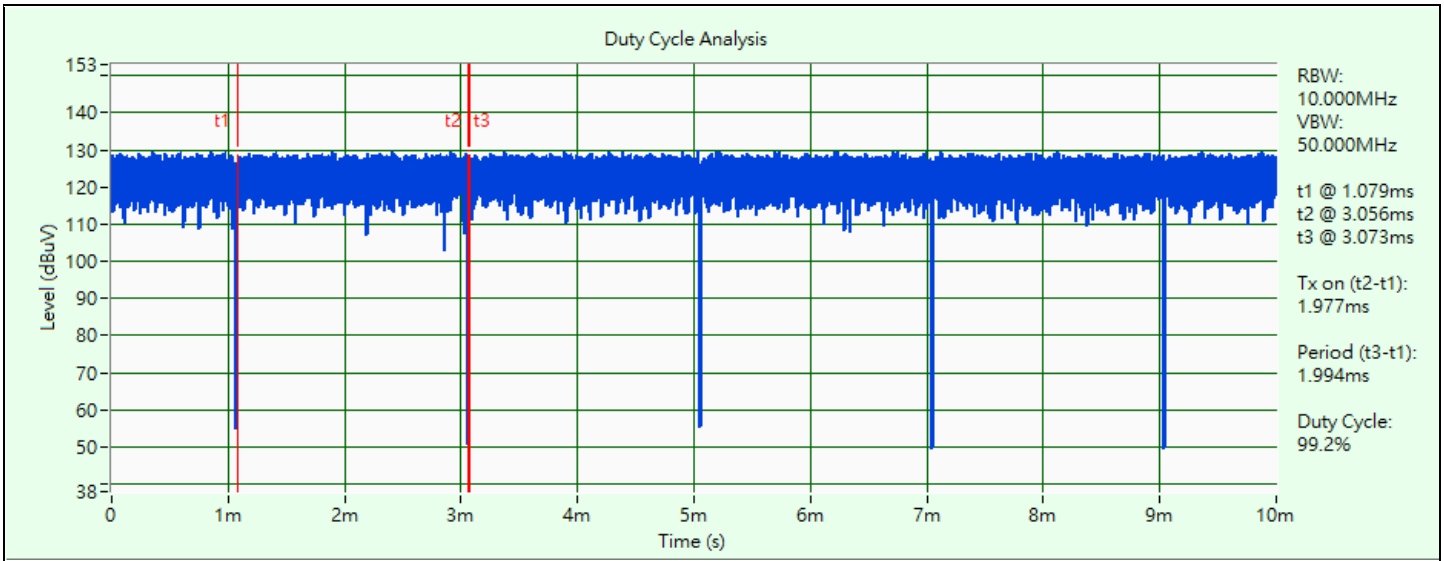
RF Output Power	802.11a	CDD	36, 40, 48	BPSK	6Mb/s
			52, 60, 64		
			100, 116, 140		
			149, 157, 165		
	802.11ac (VHT20)	CDD & Beamforming	36, 40, 48	BPSK	MCS0
			52, 60, 64		
			100, 116, 140		
			149, 157, 165		
	802.11ac (VHT40)		38, 46	BPSK	MCS0
			54, 62		
			102, 110, 134		
			151, 159		
	802.11ac (VHT80)		42	BPSK	MCS0
			58		
			106		
			122		
			155		
	802.11ac (VHT160)		50	BPSK	MCS0
			114		
	802.11ax (HE20)		36, 40, 48	BPSK	MCS0
			52, 60, 64		
			100, 116, 140		
			149, 157, 165		

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

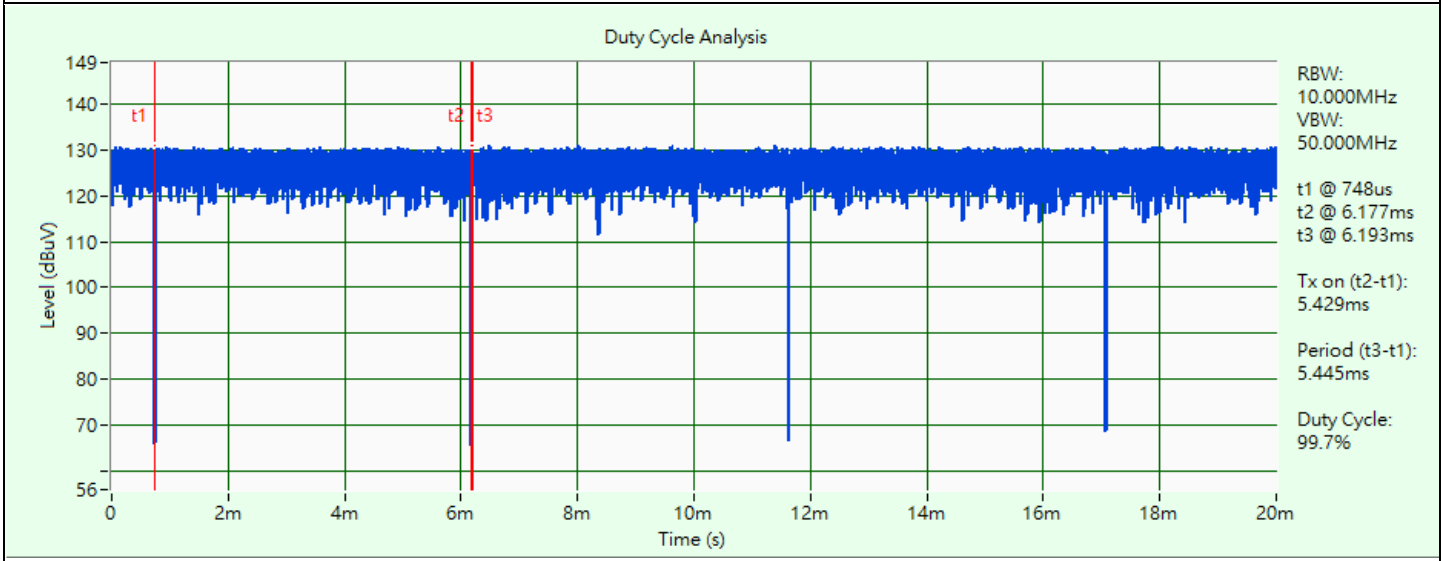
Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Occupied Bandwidth	802.11a	CDD	36, 40, 48	BPSK	6Mb/s
			52, 60, 64		
			100, 116, 140		
			149, 157, 165		
	802.11ax (HE20)		36, 40, 48	BPSK	MCS0
			52, 60, 64		
			100, 116, 140		
			149, 157, 165		
	802.11ax (HE40)		38, 46	BPSK	MCS0
			54, 62		
			102, 110, 134		
			151, 159		
	802.11ax (HE80)		42	BPSK	MCS0
			58		
			106		
			122		
			155		
	802.11ax (HE160)		50	BPSK	MCS0
			114		
Frequency Stability	802.11a	CDD	36	BPSK	6Mb/s
AC Power Conducted Emissions	802.11ax (HE40)	CDD	159	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE40)	CDD	159	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48	BPSK	6Mb/s
			52, 60, 64		
			100, 116, 140		
			149, 157, 165		
	802.11ax (HE20)		36, 40, 48	BPSK	MCS0
			52, 60, 64		
			100, 116, 140		
			149, 157, 165		
	802.11ax (HE40)		38, 46	BPSK	MCS0
			54, 62		
			102, 110, 134		
			151, 159		
	802.11ax (HE80)		42	BPSK	MCS0
			58		
			106		
			122		
			155		
	802.11ax (HE160)		50	BPSK	MCS0
			50, 114		
Note: Partial RU (resource unit) mechanism is not supported.					

3.5 Duty Cycle of Test Signal

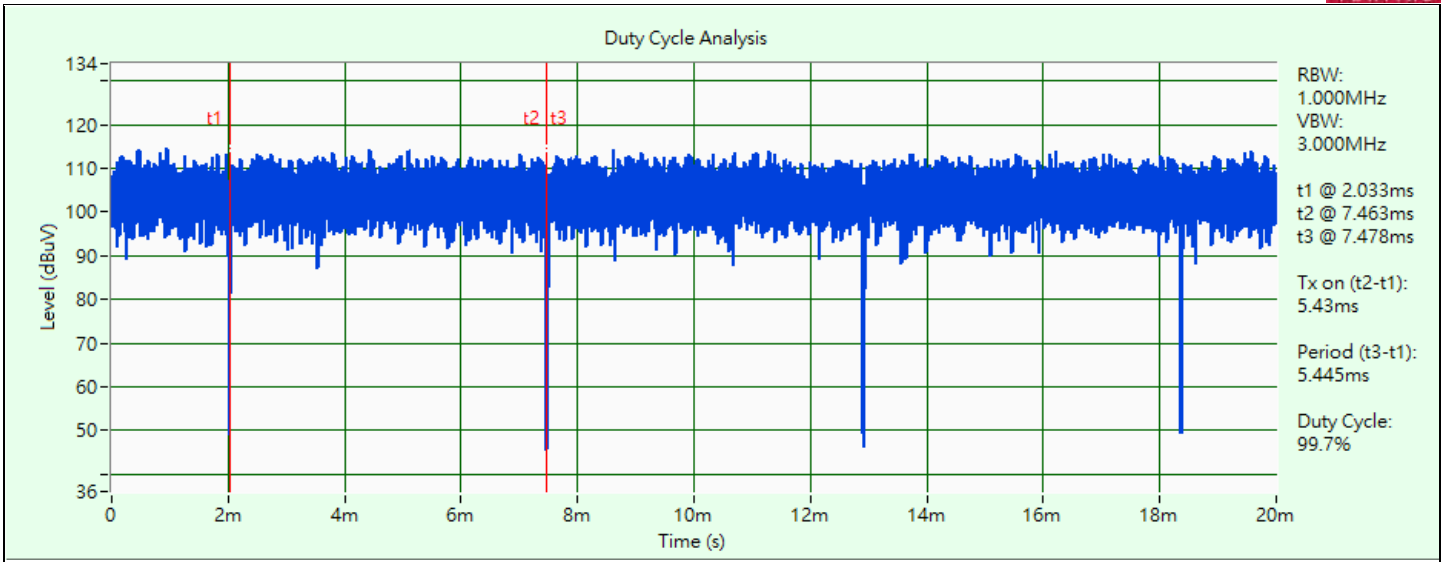
802.11a: Duty cycle = 1.977 ms / 1.994 ms x 100% = 99.1%
802.11ac (VHT20): Duty cycle = 5.429 ms / 5.445 ms x 100% = 99.7%
802.11ac (VHT40): Duty cycle = 5.43 ms / 5.445 ms x 100% = 99.7%
802.11ac (VHT80): Duty cycle = 5.432 ms / 5.442 ms x 100% = 99.8%
802.11ac (VHT160): Duty cycle = 5.429 ms / 5.441 ms x 100% = 99.8%
802.11ax (HE20): Duty cycle = 5.446 ms / 5.461 ms x 100% = 99.7%
802.11ax (HE40): Duty cycle = 5.445 ms / 5.459 ms x 100% = 99.7%
802.11ax (HE80): Duty cycle = 5.446 ms / 5.459 ms x 100% = 99.8%
802.11ax (HE160): Duty cycle = 5.445 ms / 5.459 ms x 100% = 99.7%



802.11a



802.11ac (VHT20)



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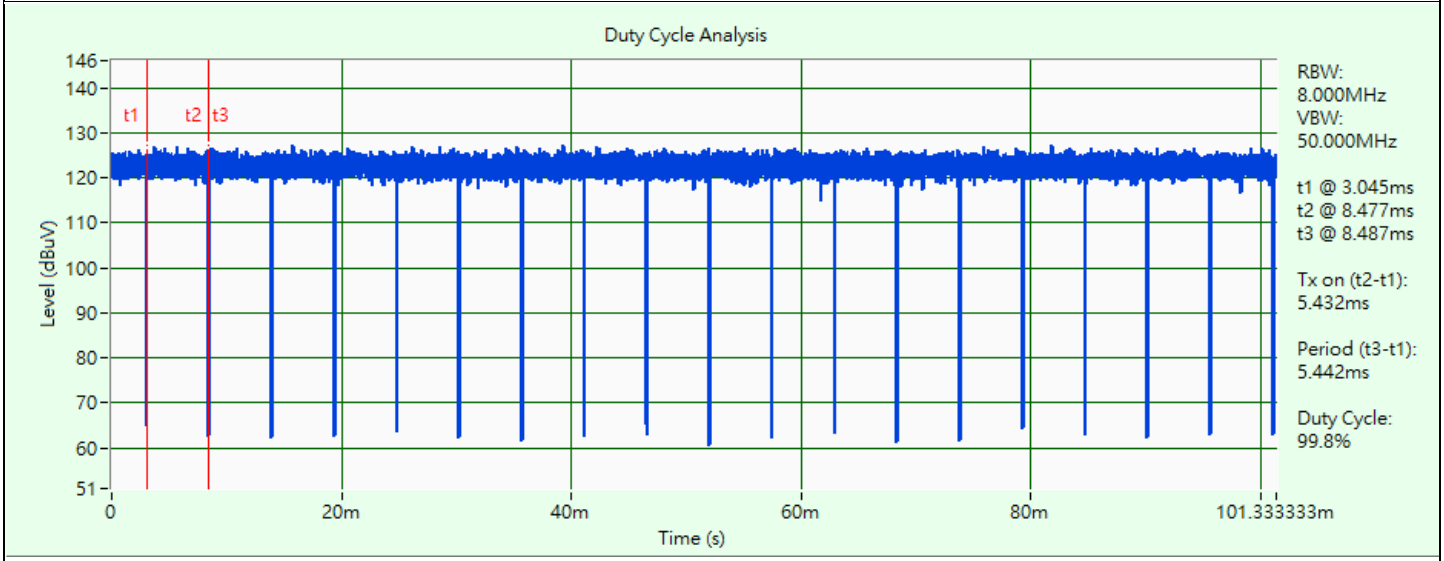

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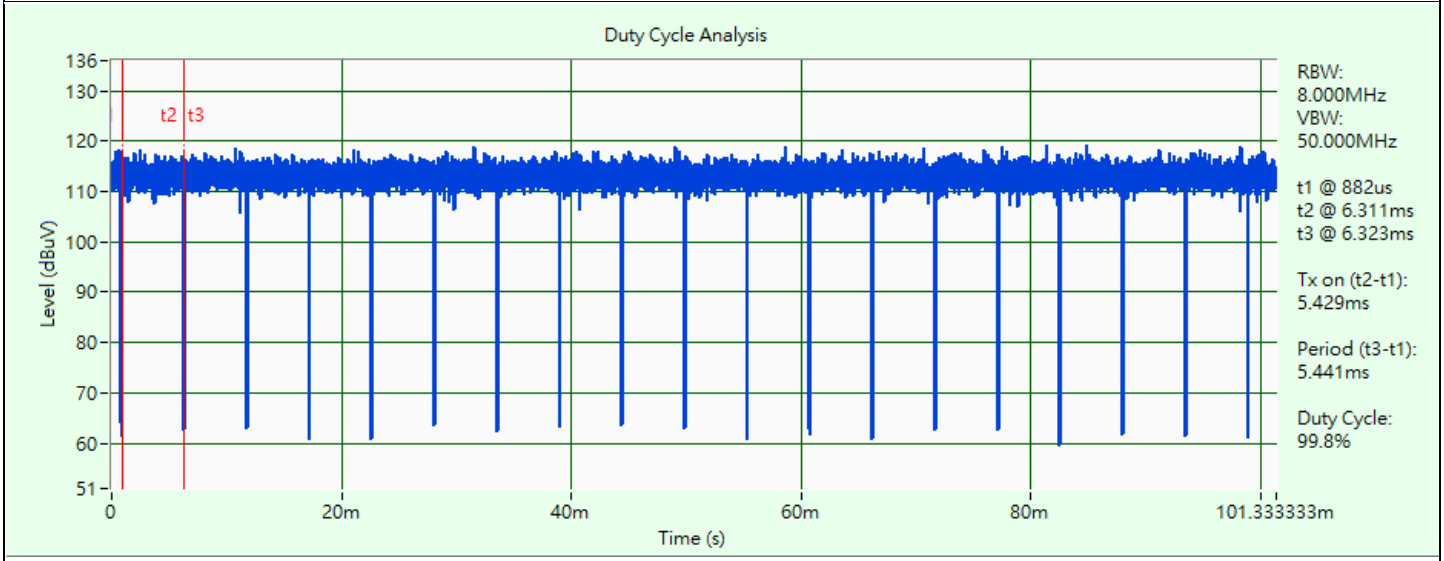
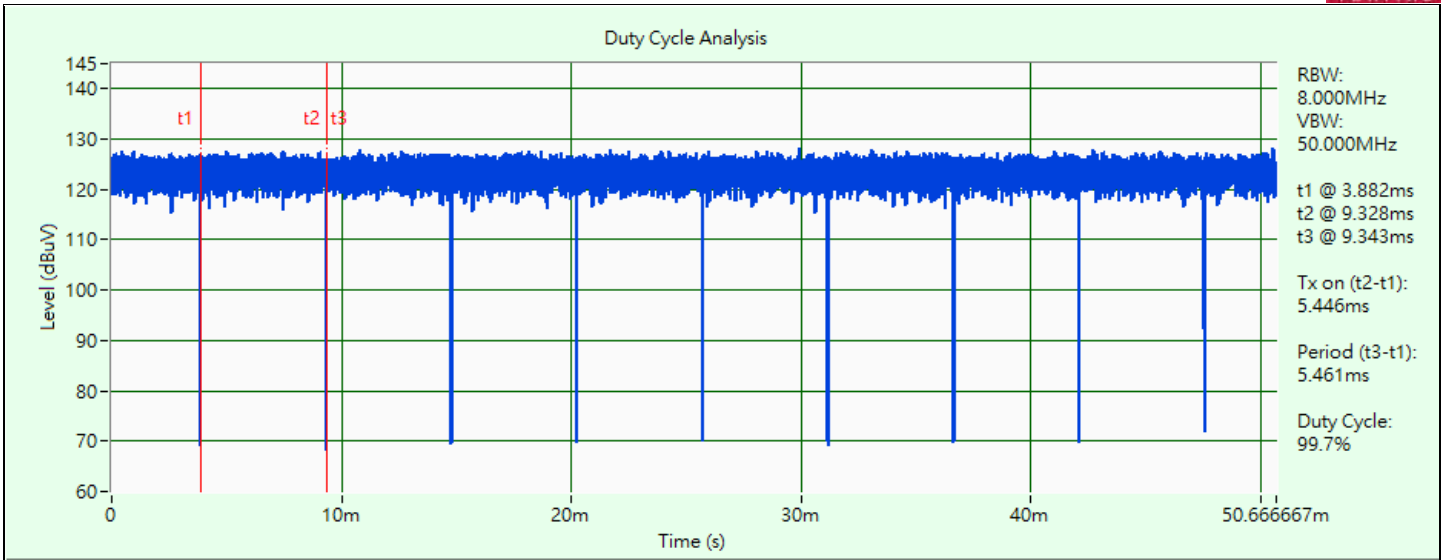
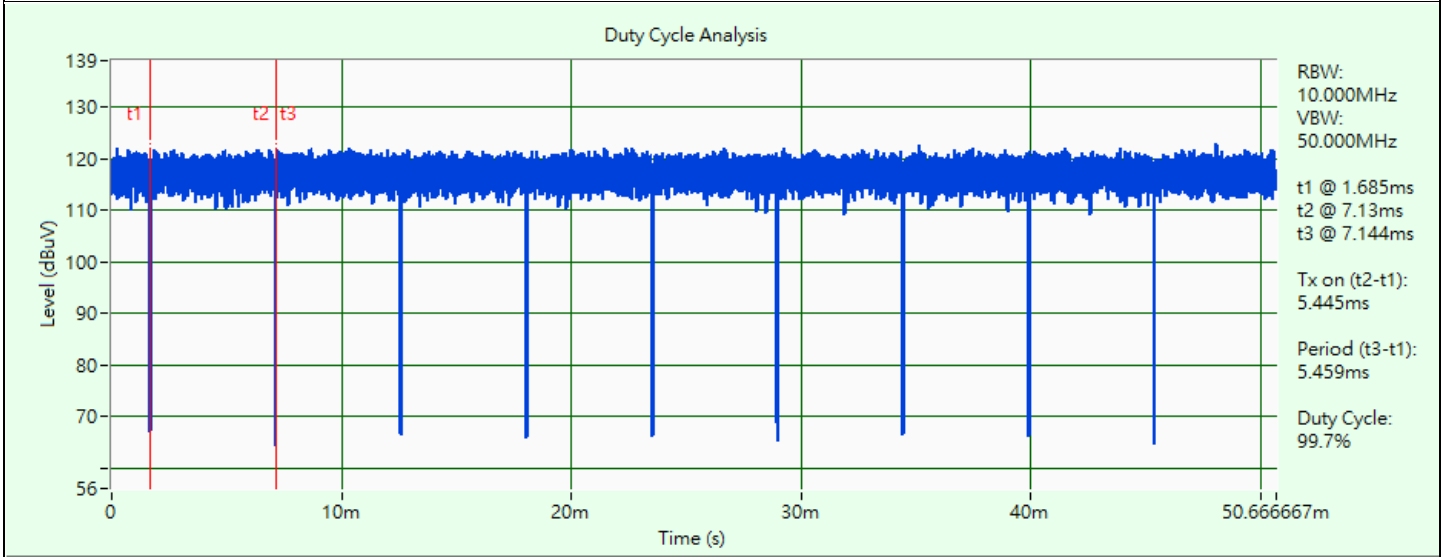


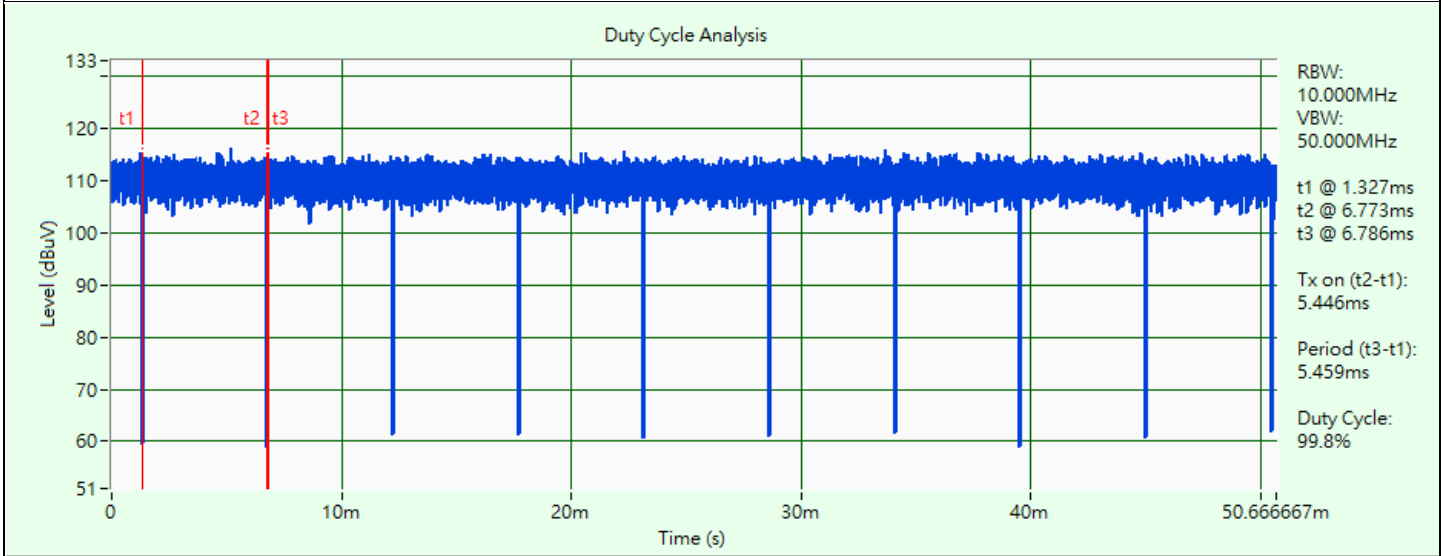
802.11ac (VHT160)



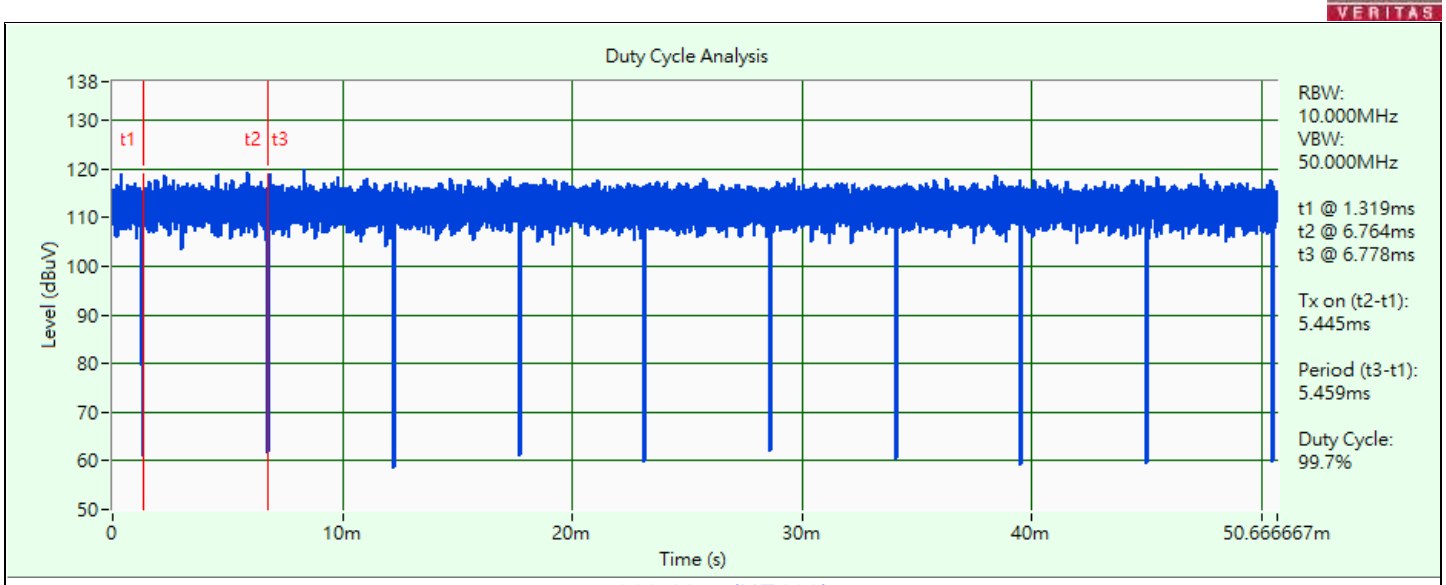
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



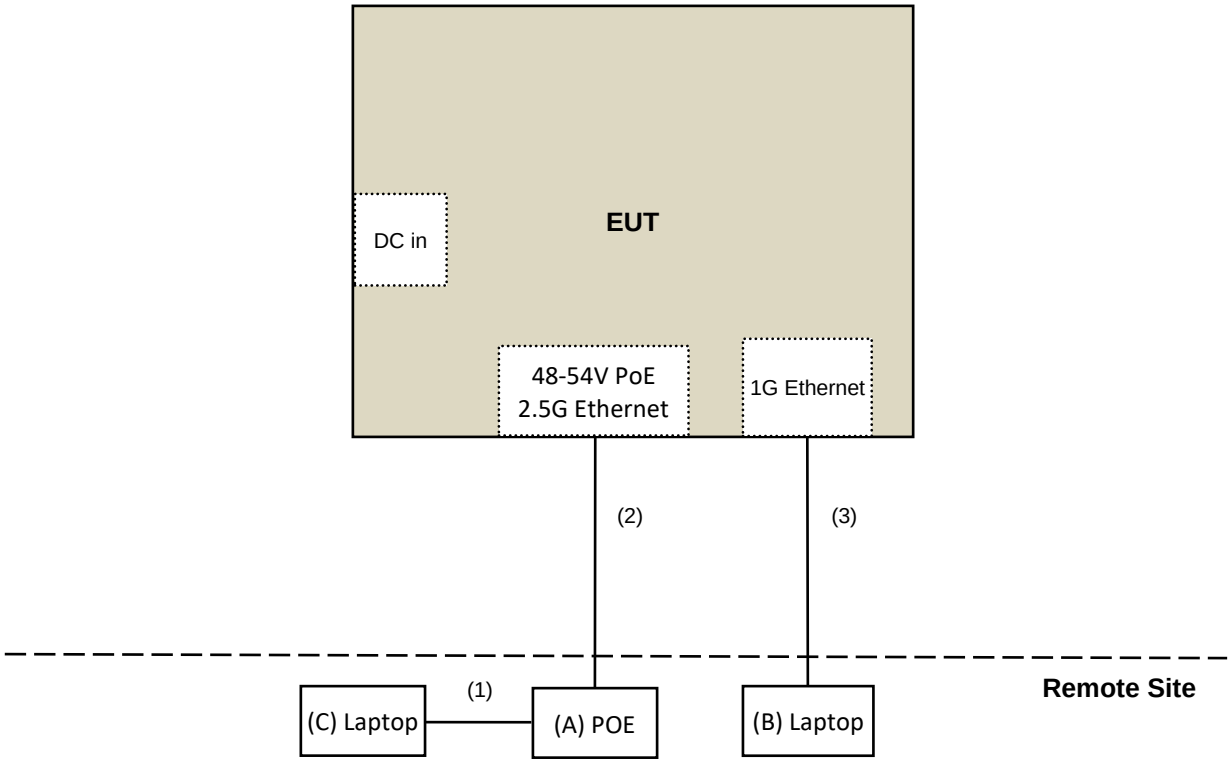
802.11ax (HE160)

3.6 Test Program Used and Operation Descriptions

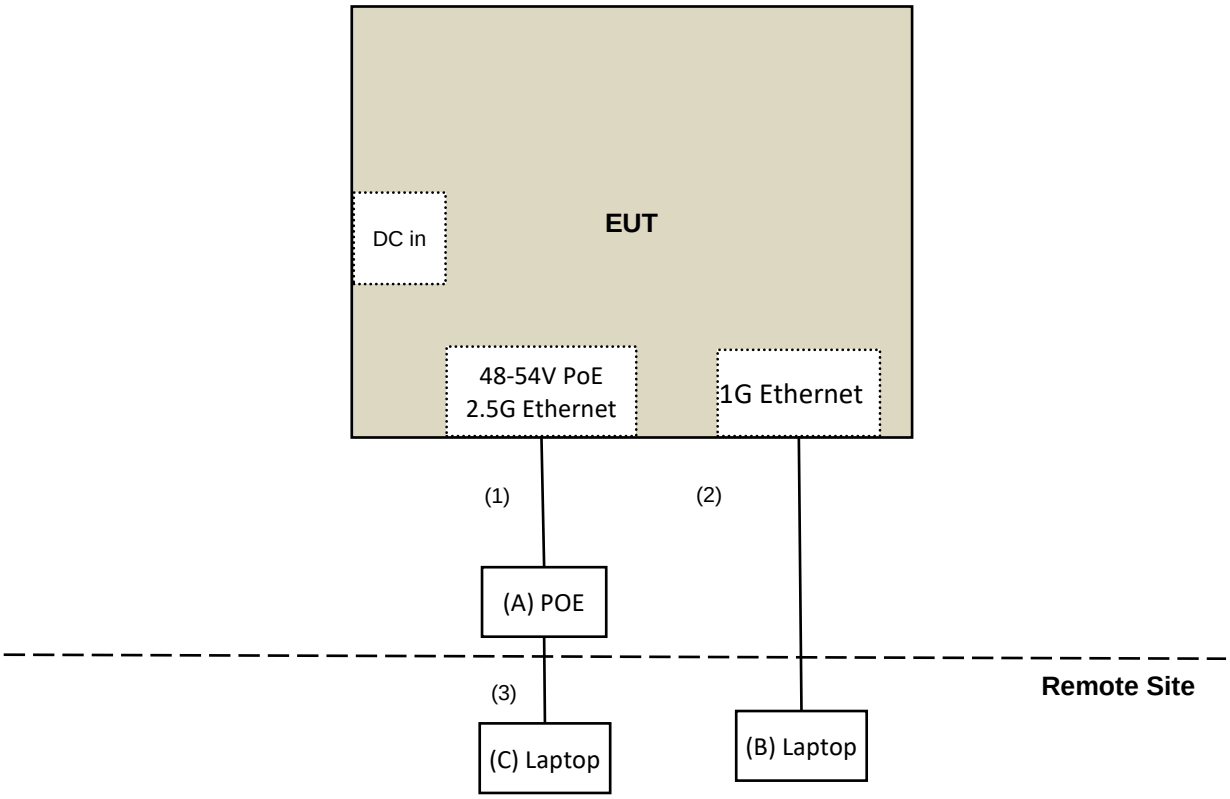
Controlling software (qdart_conn.win.1.0_installer_00094.1) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

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	POE	PHIHONG SWITCHING POWER SUPPLY	POE31U-1AT	N/A	N/A	Supplied by applicant
B	Laptop	Lenovo	20U5S01X00 L14	PF-1ANPYA	N/A	Provided by Lab
C	Laptop	Lenovo	20U5S01X00 L14	PF-28LKK7	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ45 Cable	1	0.3	NO	0	Provided by Lab
2	RJ45 Cable	1	10	NO	0	Provided by Lab
3	RJ45 Cable	1	10	NO	0	Provided by Lab

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
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: 2024/2/6

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Power Meter Anritsu	ML2495A	1529002	2023/6/17	2024/6/16
Pulse Power Sensor Anritsu	MA2411B	1726434	2023/6/19	2024/6/18
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: 2024/2/6

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
DC Power Supply GOOD WILL INSTRUMENT CO. LTD	GPC-3030D	E847076	N/A	N/A
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	2023/12/20	2024/12/19
True RMS Clamp Meter FLUKE	325	31130711WS	2023/6/8	2024/6/7

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/2/6

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance Telegartner	50 ohm	3	2023/10/20	2024/10/19
EMI Test Receiver R&S	ESCS 30	847124/029	2023/10/18	2024/10/17
Fixed Attenuator STI	STI02-2200-10	005	2023/7/1	2024/6/30
LISN R&S	ESH3-Z5	835239/001	2023/4/6	2024/4/5
		848773/004	2023/10/13	2024/10/12
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2023/7/1	2024/6/30
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2024/1/27

4.8 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	2023/10/13	2024/10/12
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	2023/9/7	2024/9/6
Loop Antenna Electro-Metrics	EM-6879	264	2023/2/21	2024/2/20
MXE EMI Receiver Agilent	N9038A	MY50010156	2023/6/13	2024/6/12
Preamplifier EMCI	EMC330N	980852	2023/2/20	2024/2/19
	EMC001340	980142	2023/5/8	2024/5/7
RF Coaxial Cable JYEBAO	5D-FB	LOOPCAB-001	2023/12/12	2024/12/11
		LOOPCAB-002	2023/12/12	2024/12/11
RF Coaxial Cable PEWC	8D	966-3-2	2023/2/17	2024/2/16
		966-3-3	2023/2/17	2024/2/16
		966-4-1	2023/2/18	2024/2/17
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: 2024/1/2

4.9 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	2023/11/12	2024/11/11
	BBHA 9170	9170-739	2023/11/12	2024/11/11
MXE EMI Receiver Agilent	N9038A	MY50010156	2023/6/13	2024/6/12
Preamplifier EMCI	EMC12630SE	980384	2023/8/9	2024/8/8
	EMC184045SE	980387	2023/8/9	2024/8/8
PXA Signal Analyzer Keysight	N9030B	MY57142938	2023/4/6	2024/4/5
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2023/8/9	2024/8/8
	EMC102-KM-KM-4000	200214	2023/2/20	2024/2/19
	EMC104-SM-SM-1500	180504	2023/3/27	2024/3/26
	EMC104-SM-SM-2000	180601	2023/6/2	2024/6/1
	EMC104-SM-SM-6000	210201	2023/5/8	2024/5/7
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: 2023/12/18 ~ 2024/1/26

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

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

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

*B is the 26 dB emission bandwidth in megahertz

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

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

5.3 Power Spectral Density

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

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

5.4 6 dB Bandwidth

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

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

5.7 AC Power Conducted Emissions

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

Notes:

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

5.8 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.9 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

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

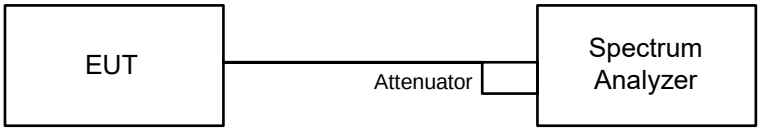
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup



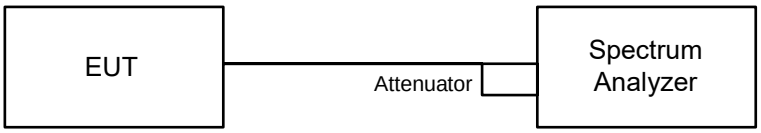
6.1.2 Test Procedure

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

6.2 RF Output Power

6.2.1 Test Setup

For channel straddling:



6.2.2 Test Procedure

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

For channel straddling:

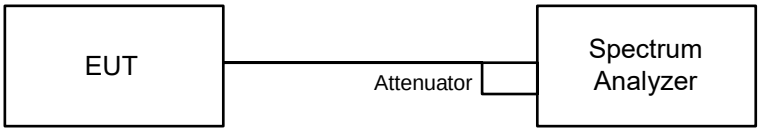
Method SA-1

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

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:
Method SA-1

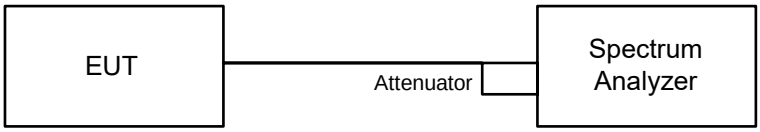
a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
d. Sweep time = auto, trigger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

For specified measurement bandwidth 500 kHz:
Method SA-1

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
c. 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 BWCF = 10log(500 kHz/300 kHz)
d. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
e. Sweep time = auto, trigger set to “free run”.
f. Trace average at least 100 traces in power averaging mode.
g. Record the max value

6.4 6 dB Bandwidth

6.4.1 Test Setup

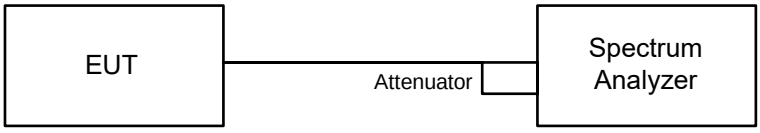


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

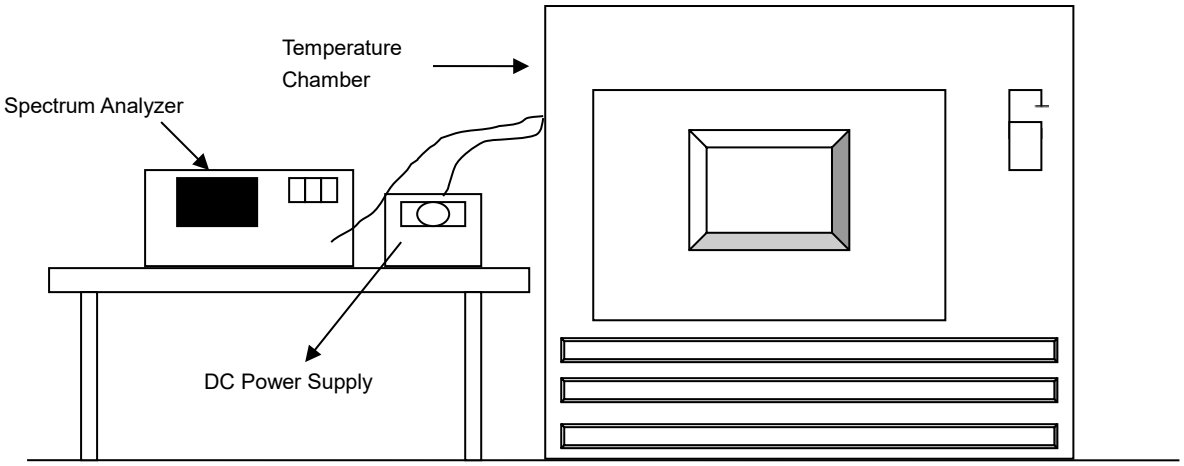


6.5.2 Test Procedure

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

6.6 Frequency Stability

6.6.1 Test Setup

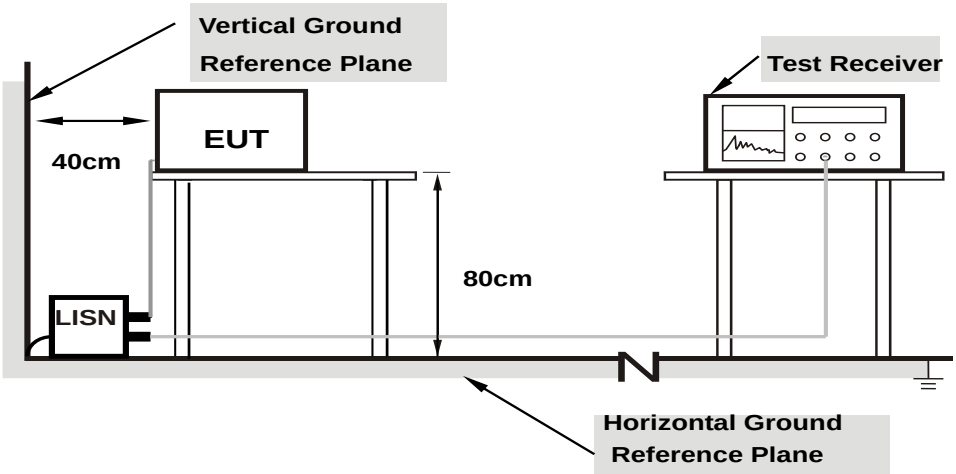


6.6.2 Test Procedure

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

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



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

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

6.7.2 Test Procedure

a. 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.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

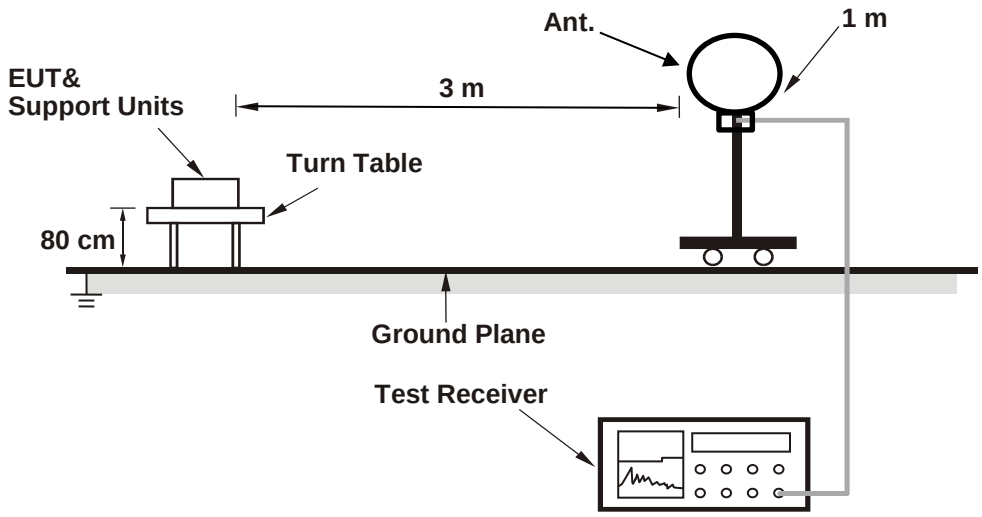
c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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

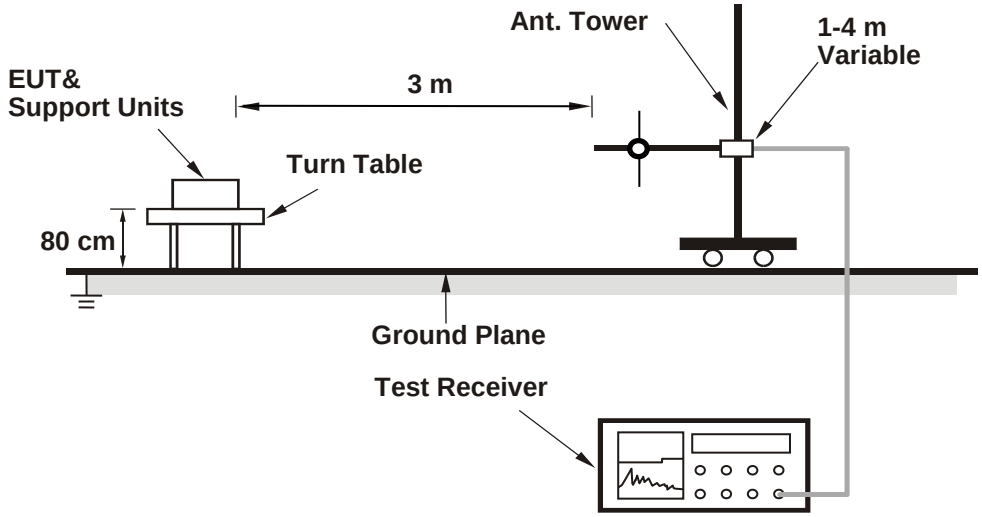
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.8.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

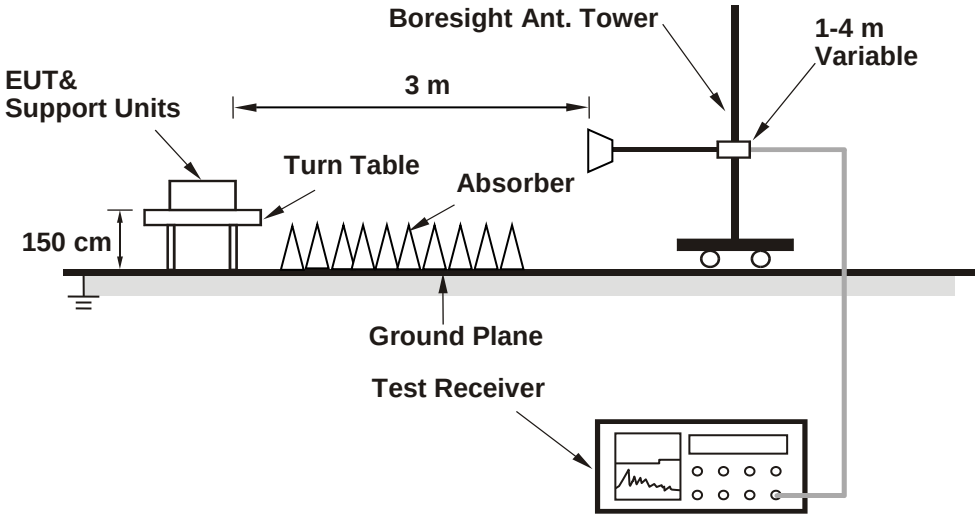
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top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

Notes:

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

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



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

6.9.2 Test Procedure

a. 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.

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 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:

1. 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.
2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10 Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1 GHz.
3. 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:	54 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Louis Yang

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	18.47	18.34
60	5300	18.57	18.47
64	5320	18.64	18.99
100	5500	19.43	19.09
116	5580	18.61	18.47
140	5700	18.58	18.59

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	18.34	23.63 < 24
60	5300	18.47	23.66 < 24
64	5320	18.64	23.7 < 24
100	5500	19.09	23.8 < 24
116	5580	18.47	23.66 < 24
140	5700	18.58	23.69 < 24

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

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.53	20.70
60	5300	20.65	20.97
64	5320	20.64	20.33
100	5500	20.45	20.63
116	5580	20.92	20.71
140	5700	20.49	20.51

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	20.53	24.12	>	24
60	5300	20.65	24.14	>	24
64	5320	20.33	24.08	>	24
100	5500	20.45	24.1	>	24
116	5580	20.71	24.16	>	24
140	5700	20.49	24.11	>	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	39.91	40.10
62	5310	40.01	39.98
102	5510	40.06	39.73
110	5550	40.26	39.92
134	5670	40.25	40.07

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	39.91	27.01	>	24
62	5310	39.98	27.01	>	24
102	5510	39.73	26.99	>	24
110	5550	39.92	27.01	>	24
134	5670	40.07	27.02	>	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	81.29	81.00
106	5530	80.59	80.52
122	5610	81.76	80.85

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	81.00	30.08 > 24
106	5530	80.52	30.05 > 24
122	5610	80.85	30.07 > 24

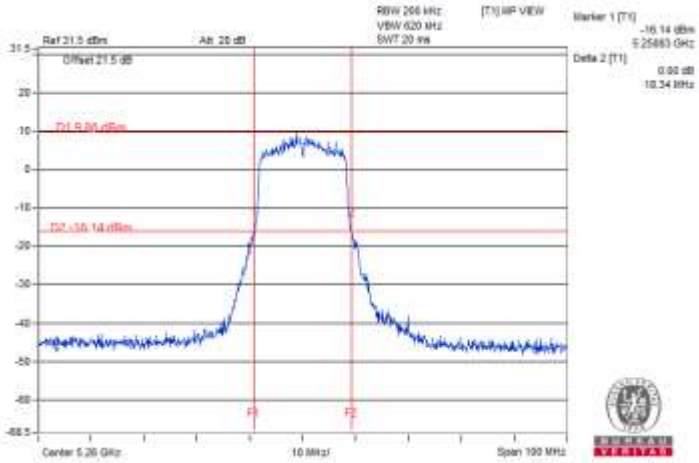
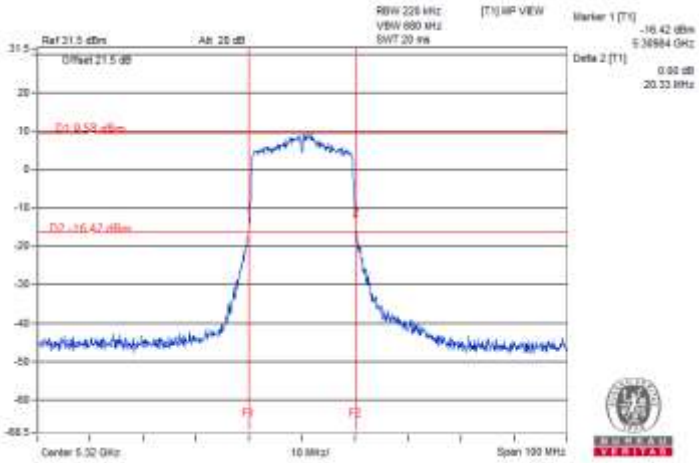
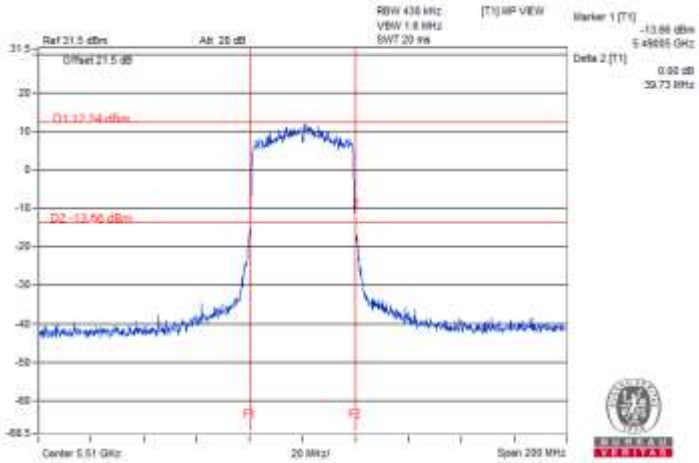
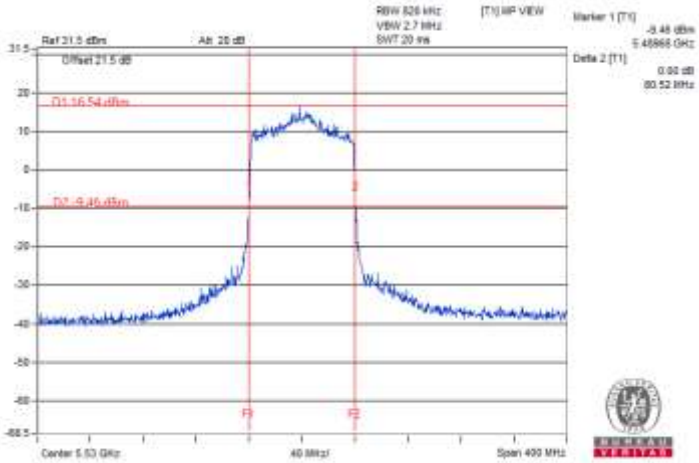
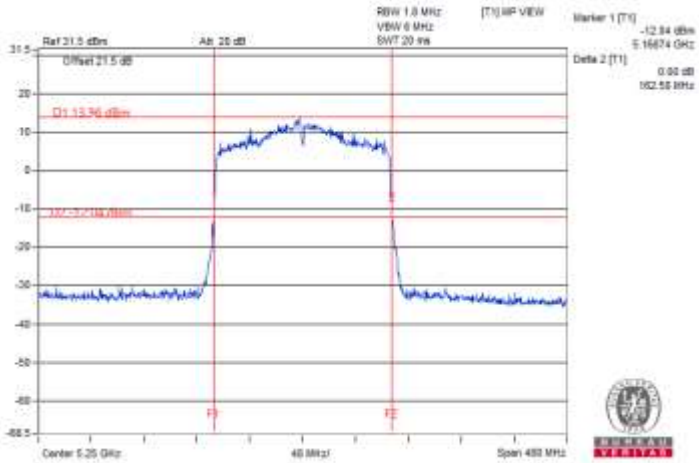
Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	81.26	81.68
50 (U-NII-2A)	5250	81.24	81.49
114	5570	163.56	162.92

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	81.24	30.09 > 24
114	5570	162.92	33.11 > 24

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

Spectrum Plot of Minimum Value	
 802.11a / Chain 1 : CH 52	 802.11ax (HE20) / Chain 1 : CH 64
 802.11ax (HE40) / Chain 1 : CH 102	 802.11ax (HE80) / Chain 1 : CH 106
 802.11ax (HE160) / Chain 0 : CH 50 (U-NII-2A)	

Notes:

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

7.2 RF Output Power

Input Power:	54 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Louis Yang

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	23.89	23.81	485.343	26.86	30	Pass
40	5200	23.94	23.78	486.523	26.87	30	Pass
48	5240	22.78	22.56	369.972	25.68	30	Pass
52	5260	18.42	17.91	131.304	21.18	23.63	Pass
60	5300	18.39	17.78	128.962	21.10	23.66	Pass
64	5320	18.36	17.84	129.362	21.12	23.7	Pass
100	5500	18.16	17.96	127.981	21.07	23.8	Pass
116	5580	18.36	18.02	131.936	21.20	23.66	Pass
140	5700	18.14	17.93	127.25	21.05	23.69	Pass
149	5745	23.26	23.58	439.87	26.43	30	Pass
157	5785	23.56	23.68	460.332	26.63	30	Pass
165	5825	23.36	23.36	433.541	26.37	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 6 dBi = 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 5.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 5.4 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) 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	23.11	23.08	407.88	26.11	30	Pass
40	5200	23.20	23.05	410.766	26.14	30	Pass
48	5240	22.54	22.33	350.475	25.45	30	Pass
52	5260	18.21	17.70	125.106	20.97	24	Pass
60	5300	18.15	17.55	122.198	20.87	24	Pass
64	5320	18.08	17.59	121.68	20.85	24	Pass
100	5500	17.93	17.68	120.701	20.82	24	Pass
116	5580	18.13	17.77	124.854	20.96	24	Pass
140	5700	17.91	17.70	120.686	20.82	24	Pass
149	5745	22.05	22.35	332.115	25.21	30	Pass
157	5785	22.32	22.44	345.996	25.39	30	Pass
165	5825	22.61	22.57	363.107	25.60	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 6 dBi = 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 5.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 5.4 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) 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	21.14	21.05	257.367	24.11	30	Pass
46	5230	24.67	24.56	578.848	27.63	30	Pass
54	5270	20.14	19.65	195.533	22.91	24	Pass
62	5310	19.64	19.14	174.08	22.41	24	Pass
102	5510	20.43	20.26	216.577	23.36	24	Pass
110	5550	20.63	20.26	221.781	23.46	24	Pass
134	5670	20.38	20.19	213.616	23.30	24	Pass
151	5755	26.02	26.33	829.481	29.19	30	Pass
159	5795	26.01	26.31	826.588	29.17	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 6 dBi = 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 5.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 5.4 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) 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	20.61	20.56	228.843	23.60	30	Pass
58	5290	19.69	19.13	174.957	22.43	24	Pass
106	5530	20.40	20.17	213.64	23.30	24	Pass
122	5610	20.44	20.26	216.832	23.36	24	Pass
155	5775	23.49	23.86	466.578	26.69	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 6 dBi = 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 5.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 5.4 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	10.50	10.54	22.544	13.53	30	Pass
*50 (U-NII-2A)	5250	10.39	10.02	20.986	13.22	24	Pass
114	5570	19.90	19.68	190.62	22.80	24	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 6 dBi = 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 5.5 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	23.39	23.31	432.562	26.36	30	Pass
40	5200	23.44	23.28	433.614	26.37	30	Pass
48	5240	22.78	22.56	369.972	25.68	30	Pass
52	5260	18.42	17.91	131.304	21.18	24	Pass
60	5300	18.39	17.78	128.962	21.10	24	Pass
64	5320	18.36	17.84	129.362	21.12	24	Pass
100	5500	18.16	17.96	127.981	21.07	24	Pass
116	5580	18.36	18.02	131.936	21.20	24	Pass
140	5700	18.14	17.93	127.25	21.05	24	Pass
149	5745	22.26	22.58	349.401	25.43	30	Pass
157	5785	22.56	22.68	365.655	25.63	30	Pass
165	5825	22.86	22.86	386.394	25.87	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 6 dBi = 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 5.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 5.4 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	21.39	21.31	272.928	24.36	30	Pass
46	5230	24.89	24.81	611.01	27.86	30	Pass
54	5270	20.42	19.91	208.103	23.18	24	Pass
62	5310	19.92	19.41	185.472	22.68	24	Pass
102	5510	20.66	20.46	227.586	23.57	24	Pass
110	5550	20.86	20.52	234.619	23.70	24	Pass
134	5670	20.64	20.43	226.286	23.55	24	Pass
151	5755	26.26	26.58	877.657	29.43	30	Pass
159	5795	26.26	26.58	877.657	29.43	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 6 dBi = 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 5.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 5.4 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	20.89	20.81	243.248	23.86	30	Pass
58	5290	19.92	19.41	185.472	22.68	24	Pass
106	5530	20.66	20.46	227.586	23.57	24	Pass
122	5610	20.66	20.46	227.586	23.57	24	Pass
155	5775	23.76	24.08	493.543	26.93	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 6 dBi = 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 5.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 5.4 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				
*50 (U-NII-1)	5250	15.37	15.56	70.41	18.48	30	Pass
*50 (U-NII-2A)	5250	15.26	15.25	67.07	18.27	24	Pass
114	5570	20.16	19.96	202.836	23.07	24	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 6 dBi = 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 5.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	23.11	23.08	407.88	26.11	27.75	Pass
40	5200	23.20	23.05	410.766	26.14	27.75	Pass
48	5240	22.54	22.33	350.475	25.45	27.75	Pass
52	5260	18.21	17.70	125.106	20.97	21.77	Pass
60	5300	18.15	17.55	122.198	20.87	21.77	Pass
64	5320	18.08	17.59	121.68	20.85	21.77	Pass
100	5500	17.93	17.68	120.701	20.82	21.64	Pass
116	5580	18.13	17.77	124.854	20.96	21.64	Pass
140	5700	17.91	17.70	120.686	20.82	21.64	Pass
149	5745	22.05	22.35	332.115	25.21	27.84	Pass
157	5785	22.32	22.44	345.996	25.39	27.84	Pass
165	5825	22.61	22.57	363.107	25.60	27.84	Pass

Notes:

1. Directional gain = $10 \log[(10^{Chain0/20} + 10^{Chain1/20})^2 / 2]$
2. For U-NII-1, the directional gain is 8.25 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.25-6) = 27.75 dBm.
3. For U-NII-2A, the directional gain is 8.23 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.23-6)].
4. For U-NII-2C, the directional gain is 8.36 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.36-6)].
5. For U-NII-3, the directional gain is 8.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.16-6) = 27.84 dBm.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	21.14	21.05	257.367	24.11	27.75	Pass
46	5230	24.00	23.97	500.648	27.00	27.75	Pass
54	5270	18.16	17.69	124.213	20.94	21.77	Pass
62	5310	17.91	17.63	119.745	20.78	21.77	Pass
102	5510	17.90	17.74	121.089	20.83	21.64	Pass
110	5550	18.09	17.81	124.812	20.96	21.64	Pass
134	5670	17.91	17.72	120.958	20.83	21.64	Pass
151	5755	23.70	23.95	482.736	26.84	27.84	Pass
159	5795	23.65	23.96	480.625	26.82	27.84	Pass

Notes:

1. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
2. For U-NII-1, the directional gain is 8.25 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.25-6) = 27.75 dBm.
3. For U-NII-2A, the directional gain is 8.23 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.23-6)].
4. For U-NII-2C, the directional gain is 8.36 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.36-6)].
5. For U-NII-3, the directional gain is 8.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.16-6) = 27.84 dBm.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	20.61	20.56	228.843	23.60	27.75	Pass
58	5290	18.18	17.64	123.842	20.93	21.77	Pass
106	5530	17.89	17.75	121.084	20.83	21.64	Pass
122	5610	18.02	17.75	122.953	20.90	21.64	Pass
155	5775	23.49	23.86	466.578	26.69	27.84	Pass

Notes:

1. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
2. For U-NII-1, the directional gain is 8.25 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.25-6) = 27.75 dBm.
3. For U-NII-2A, the directional gain is 8.23 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.23-6)].
4. For U-NII-2C, the directional gain is 8.36 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.36-6)].
5. For U-NII-3, the directional gain is 8.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.16-6) = 27.84 dBm.

802.11ac (VHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	10.50	10.54	22.544	13.53	27.75	Pass
*50 (U-NII-2A)	5250	10.39	10.02	20.986	13.22	21.77	Pass
114	5570	18.03	17.71	122.553	20.88	21.64	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 8.25 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.25-6) = 27.75 dBm.
4. For U-NII-2A, the directional gain is 8.23 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.23-6)].
5. For U-NII-2C, the directional gain is 8.36 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.36-6)].

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	23.39	23.31	432.562	26.36	27.75	Pass
40	5200	23.44	23.28	433.614	26.37	27.75	Pass
48	5240	22.78	22.56	369.972	25.68	27.75	Pass
52	5260	18.42	17.91	131.304	21.18	21.77	Pass
60	5300	18.39	17.78	128.962	21.10	21.77	Pass
64	5320	18.36	17.84	129.362	21.12	21.77	Pass
100	5500	18.16	17.96	127.981	21.07	21.64	Pass
116	5580	18.36	18.02	131.936	21.20	21.64	Pass
140	5700	18.14	17.93	127.25	21.05	21.64	Pass
149	5745	22.26	22.58	349.401	25.43	27.84	Pass
157	5785	22.56	22.68	365.655	25.63	27.84	Pass
165	5825	22.86	22.86	386.394	25.87	27.84	Pass

Notes:

1. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
2. For U-NII-1, the directional gain is 8.25 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.25-6) = 27.75 dBm.
3. For U-NII-2A, the directional gain is 8.23 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.23-6)].
4. For U-NII-2C, the directional gain is 8.36 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.36-6)].
5. For U-NII-3, the directional gain is 8.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.16-6) = 27.84 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	21.39	21.31	272.928	24.36	27.75	Pass
46	5230	24.29	24.22	532.775	27.27	27.75	Pass
54	5270	18.42	17.91	131.304	21.18	21.77	Pass
62	5310	18.16	17.84	126.277	21.01	21.77	Pass
102	5510	18.16	17.96	127.981	21.07	21.64	Pass
110	5550	18.36	18.02	131.936	21.20	21.64	Pass
134	5670	18.14	17.93	127.25	21.05	21.64	Pass
151	5755	23.96	24.18	510.704	27.08	27.84	Pass
159	5795	23.89	24.23	509.756	27.07	27.84	Pass

Notes:

1. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
2. For U-NII-1, the directional gain is 8.25 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.25-6) = 27.75 dBm.
3. For U-NII-2A, the directional gain is 8.23 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.23-6)].
4. For U-NII-2C, the directional gain is 8.36 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.36-6)].
5. For U-NII-3, the directional gain is 8.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.16-6) = 27.84 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	20.89	20.81	243.248	23.86	27.75	Pass
58	5290	18.42	17.91	131.304	21.18	21.77	Pass
106	5530	18.16	17.96	127.981	21.07	21.64	Pass
122	5610	18.24	18.02	130.068	21.14	21.64	Pass
155	5775	23.76	24.08	493.543	26.93	27.84	Pass

Notes:

1. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
2. For U-NII-1, the directional gain is 8.25 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.25-6) = 27.75 dBm.
3. For U-NII-2A, the directional gain is 8.23 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.23-6)].
4. For U-NII-2C, the directional gain is 8.36 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.36-6)].
5. For U-NII-3, the directional gain is 8.16 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.16-6) = 27.84 dBm.

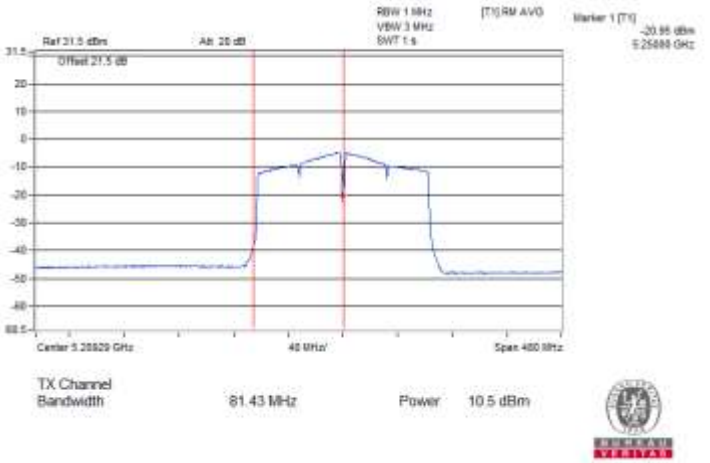
802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	15.37	15.56	70.41	18.48	27.75	Pass
*50 (U-NII-2A)	5250	15.26	15.25	67.07	18.27	21.77	Pass
114	5570	18.29	17.96	129.97	21.14	21.64	Pass

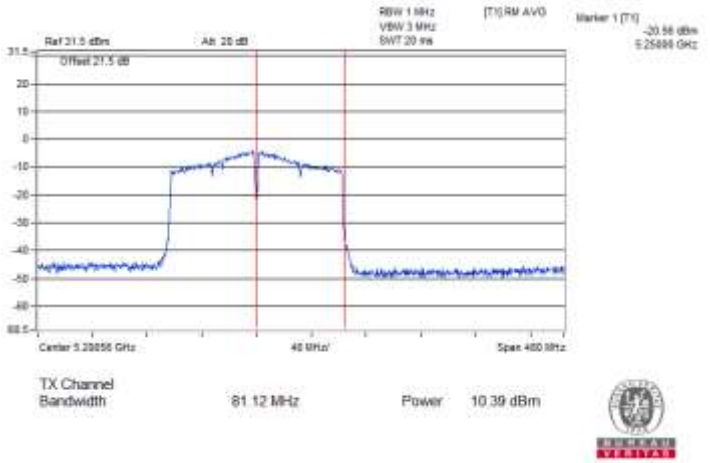
Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 8.25 dBi > 6 dBi, so the output power limit shall be reduced to 30-(8.25-6) = 27.75 dBm.
4. For U-NII-2A, the directional gain is 8.23 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.23-6)].
5. For U-NII-2C, the directional gain is 8.36 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.36-6)].

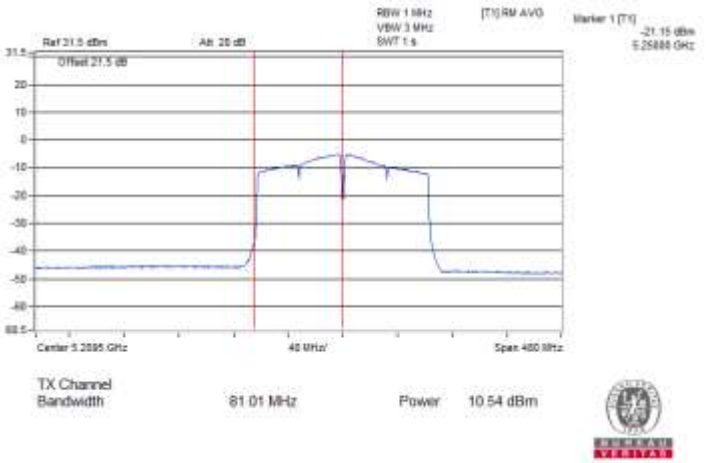
Spectrum Plot for channel straddling



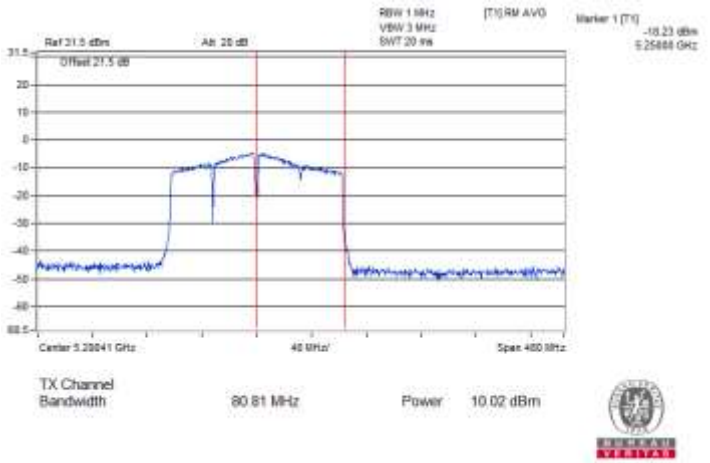
802.11ac (VHT160) CDD / Chain 0 : CH 50 (U-NII-1)



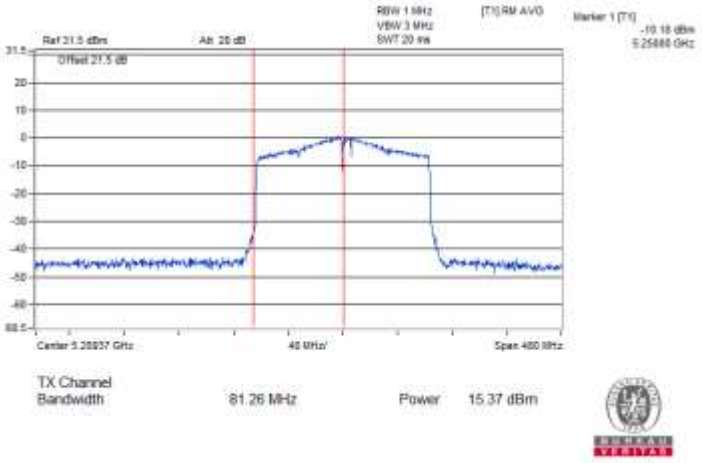
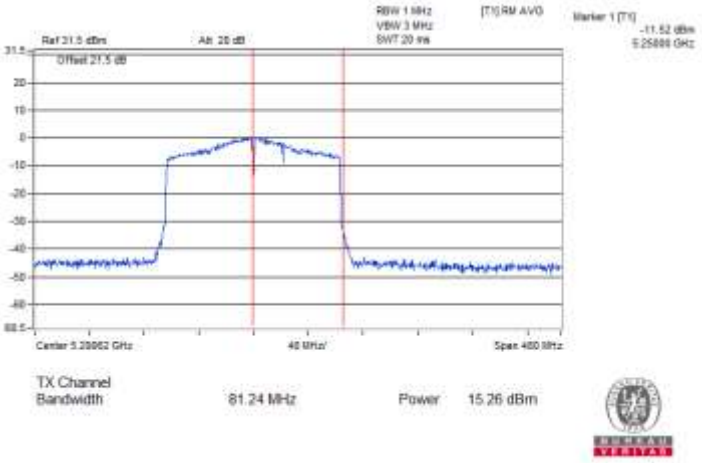
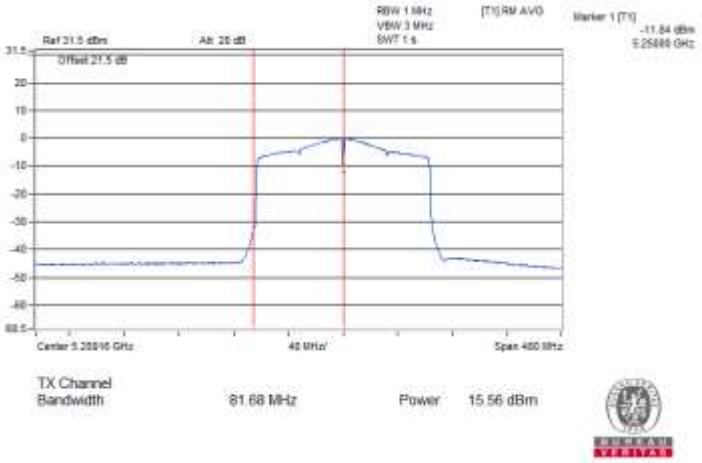
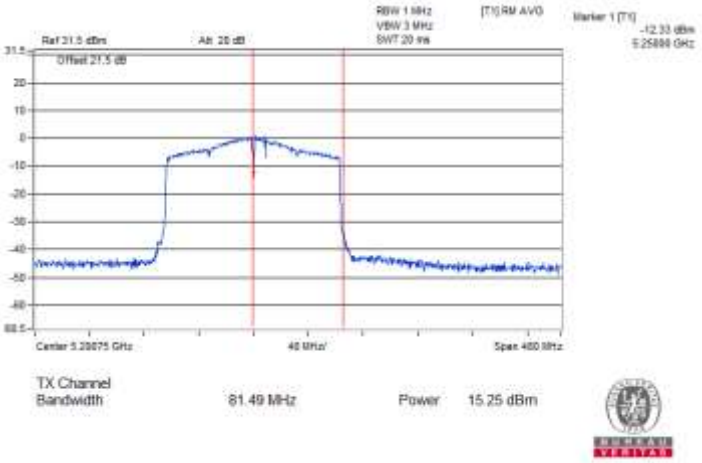
802.11ac (VHT160) CDD / Chain 0 : CH 50 (U-NII-2A)



802.11ac (VHT160) CDD / Chain 1 : CH 50 (U-NII-1)



802.11ac (VHT160) CDD / Chain 1 : CH 50 (U-NII-2A)

Spectrum Plot for channel straddling	
	
802.11ax (HE160) CDD / Chain 0 : CH 50 (U-NII-1)	802.11ax (HE160) CDD / Chain 0 : CH 50 (U-NII-2A)
	
802.11ax (HE160) CDD / Chain 1 : CH 50 (U-NII-1)	802.11ax (HE160) CDD / Chain 1 : CH 50 (U-NII-2A)

7.3 Power Spectral Density

Input Power:	54 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Louis Yang

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	11.57	11.55	14.57	14.75	Pass
40	5200	11.47	11.36	14.43	14.75	Pass
48	5240	11.65	11.46	14.57	14.75	Pass
52	5260	5.59	5.35	8.48	8.77	Pass
60	5300	5.08	5.81	8.47	8.77	Pass
64	5320	5.37	5.62	8.51	8.77	Pass
100	5500	5.31	5.44	8.39	8.64	Pass
116	5580	5.54	5.61	8.59	8.64	Pass
140	5700	5.21	5.88	8.57	8.64	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{Chain0/20} + 10^{Chain1/20})^2 / 2]$
3. For U-NII-1, the directional gain is 8.25 dBi > 6dBi, so the power density limit shall be reduced to 17-(8.25-6) = 14.75 dBm/MHz.
4. For U-NII-2A, the directional gain is 8.23 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.23-6) = 8.77 dBm/MHz.
5. For U-NII-2C, the directional gain is 8.36 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.36-6) = 8.64 dBm/MHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	11.46	11.17	14.33	14.75	Pass
40	5200	11.39	11.57	14.49	14.75	Pass
48	5240	11.47	11.62	14.56	14.75	Pass
52	5260	5.46	5.64	8.56	8.77	Pass
60	5300	5.40	5.46	8.44	8.77	Pass
64	5320	5.18	5.38	8.29	8.77	Pass
100	5500	5.20	5.35	8.29	8.64	Pass
116	5580	5.49	5.51	8.51	8.64	Pass
140	5700	5.23	5.72	8.49	8.64	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 8.25 dBi > 6dBi, so the power density limit shall be reduced to 17-(8.25-6) = 14.75 dBm/MHz.
4. For U-NII-2A, the directional gain is 8.23 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.23-6) = 8.77 dBm/MHz.
5. For U-NII-2C, the directional gain is 8.36 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.36-6) = 8.64 dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	8.09	7.14	10.65	14.75	Pass
46	5230	11.27	11.37	14.33	14.75	Pass
54	5270	5.46	5.23	8.36	8.77	Pass
62	5310	5.37	5.22	8.31	8.77	Pass
102	5510	5.27	5.20	8.25	8.64	Pass
110	5550	5.68	5.24	8.48	8.64	Pass
134	5670	5.39	5.23	8.32	8.64	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 8.25 dBi > 6dBi, so the power density limit shall be reduced to 17-(8.25-6) = 14.75 dBm/MHz.
4. For U-NII-2A, the directional gain is 8.23 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.23-6) = 8.77 dBm/MHz.
5. For U-NII-2C, the directional gain is 8.36 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.36-6) = 8.64 dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	4.77	4.39	7.59	14.75	Pass
58	5290	3.07	3.20	6.15	8.77	Pass
106	5530	5.49	5.04	8.28	8.64	Pass
122	5610	5.83	5.35	8.61	8.64	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 8.25 dBi > 6dBi, so the power density limit shall be reduced to 17-(8.25-6) = 14.75 dBm/MHz.
4. For U-NII-2A, the directional gain is 8.23 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.23-6) = 8.77 dBm/MHz.
5. For U-NII-2C, the directional gain is 8.36 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.36-6) = 8.64 dBm/MHz.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
50 (U-NII-1)	5250	-0.77	-1.23	2.02	14.75	Pass
50 (U-NII-2A)	5250	-0.89	-1.25	1.94	8.77	Pass
114	5570	1.59	0.86	4.25	8.64	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 8.25 dBi > 6dBi, so the power density limit shall be reduced to 17-(8.25-6) = 14.75 dBm/MHz.
4. For U-NII-2A, the directional gain is 8.23 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.23-6) = 8.77 dBm/MHz.
5. For U-NII-2C, the directional gain is 8.36 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.36-6) = 8.64 dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
149	5745	7.47	7.60	10.55	12.77	27.84	Pass
157	5785	7.96	7.89	10.94	13.16	27.84	Pass
165	5825	7.77	7.57	10.68	12.90	27.84	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{Chain0/20} + 10^{Chain1/20})^2 / 2]$
3. For U-NII-3, the directional gain is 8.16 dBi > 6 dBi, so the power density limit shall be reduced to 30-(8.16-6) = 27.84 dBm/500kHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
149	5745	5.52	5.71	8.63	10.85	27.84	Pass
157	5785	5.97	5.92	8.96	11.18	27.84	Pass
165	5825	6.45	6.18	9.33	11.55	27.84	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{Chain0/20} + 10^{Chain1/20})^2 / 2]$
3. For U-NII-3, the directional gain is 8.16 dBi > 6 dBi, so the power density limit shall be reduced to 30-(8.16-6) = 27.84 dBm/500kHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
151	5755	6.25	6.49	9.38	11.60	27.84	Pass
159	5795	5.83	5.95	8.9	11.12	27.84	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{Chain0/20} + 10^{Chain1/20})^2 / 2]$
3. For U-NII-3, the directional gain is 8.16 dBi > 6 dBi, so the power density limit shall be reduced to 30-(8.16-6) = 27.84 dBm/500kHz.

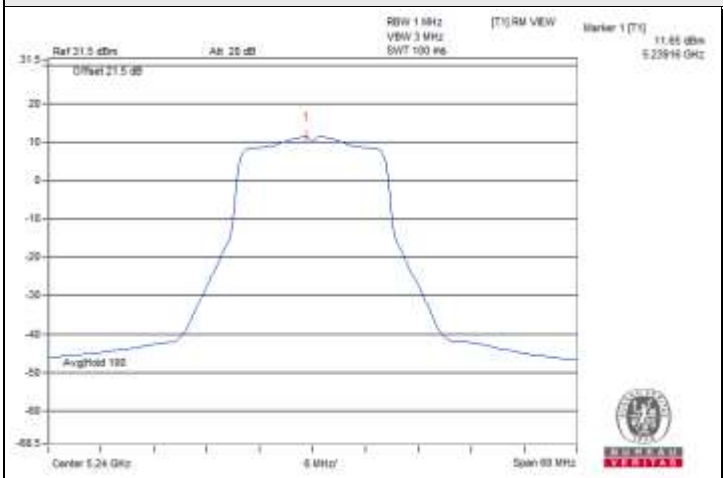
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
155	5775	1.95	2.35	5.16	7.38	27.84	Pass

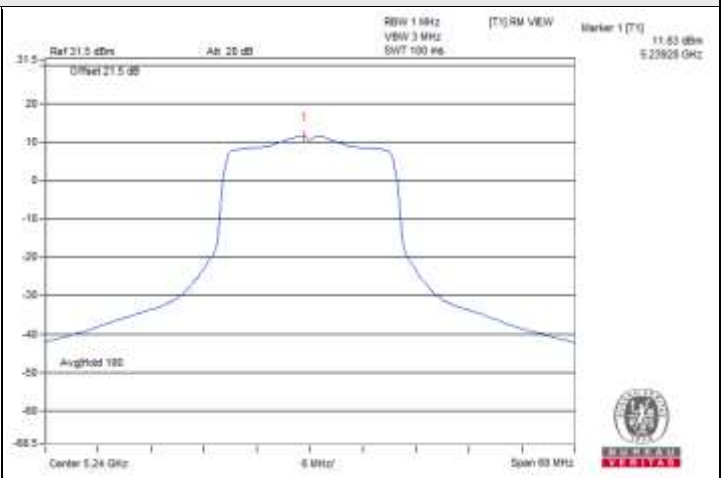
Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-3, the directional gain is 8.16 dBi > 6 dBi, so the power density limit shall be reduced to 30-(8.16-6) = 27.84 dBm/500kHz.

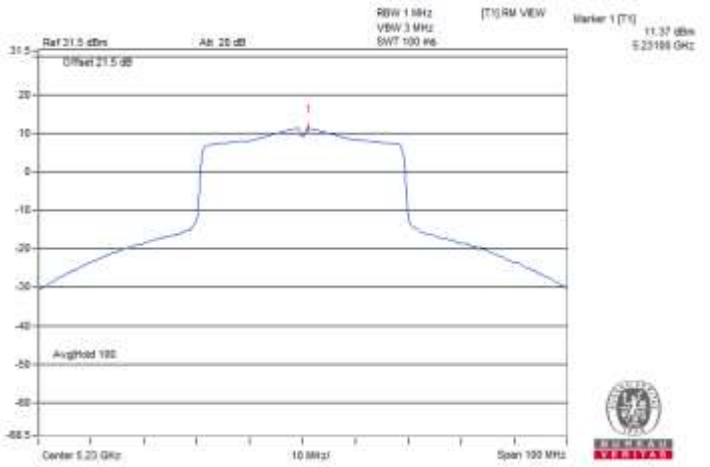
Spectrum Plot of Maximum Value



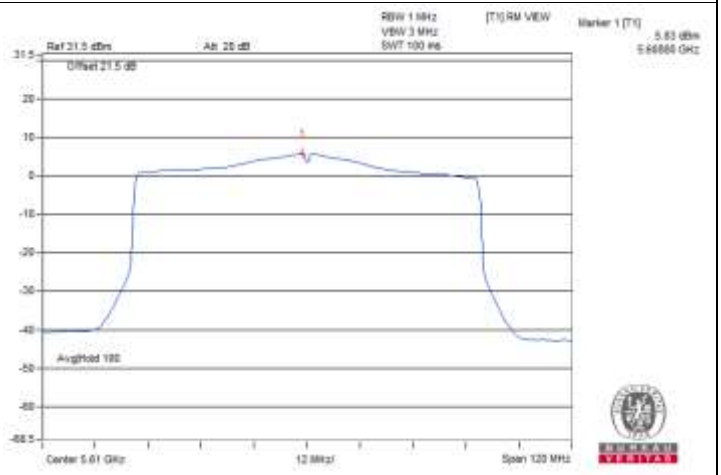
802.11a / Chain 0 : CH 48



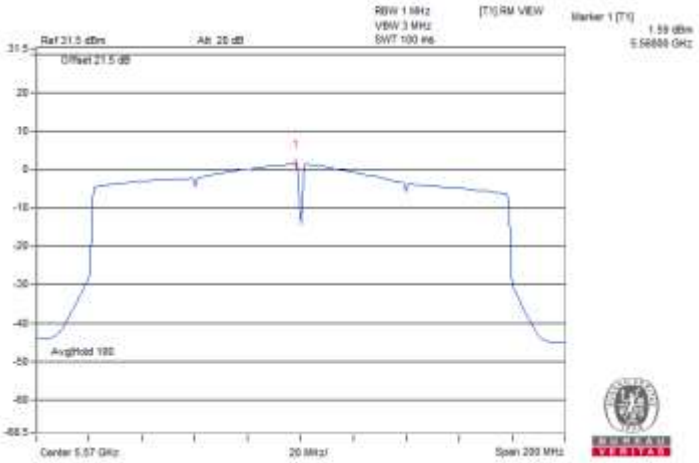
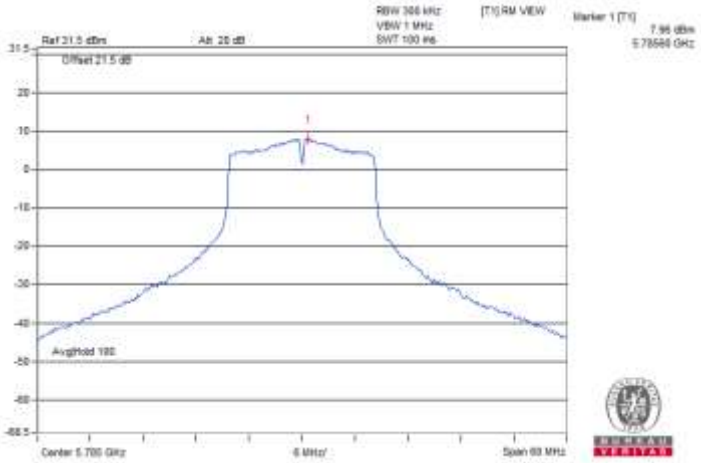
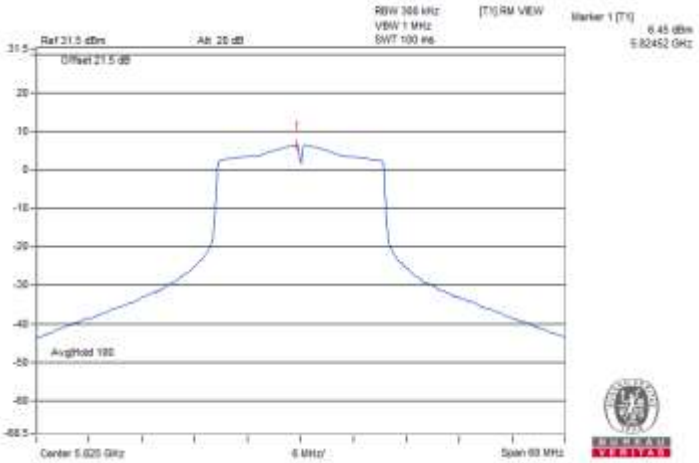
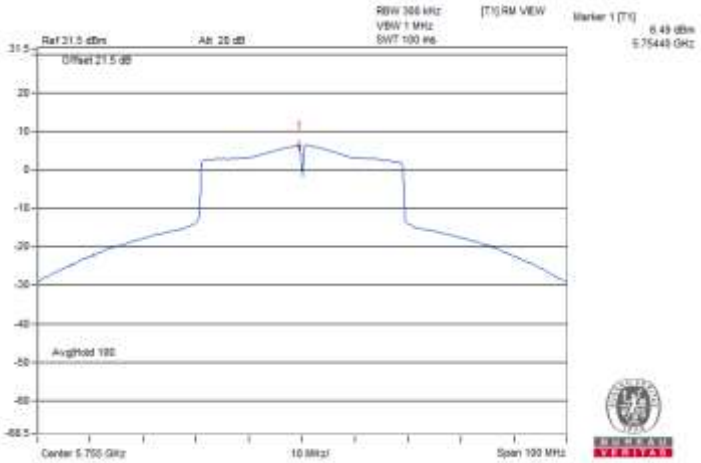
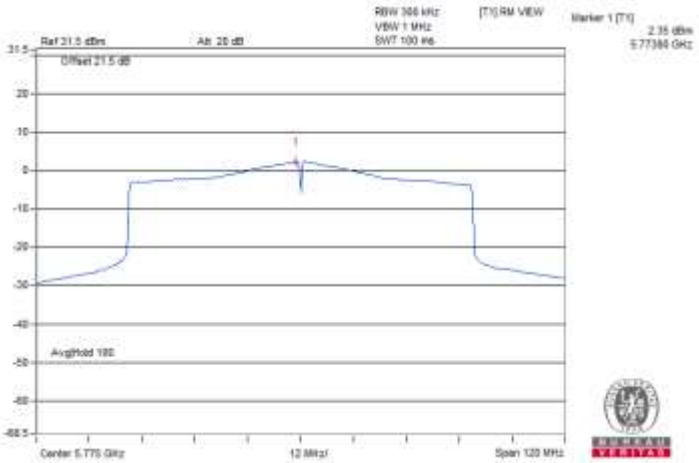
802.11ax (HE20) / Chain 1 : CH 48



802.11ax (HE40) / Chain 1 : CH 46



802.11ax (HE80) / Chain 0 : CH 122

Spectrum Plot of Maximum Value	
 802.11ax (HE160) / Chain 0 : CH 114	 802.11a / Chain 0 : CH 157
 802.11ax (HE20) / Chain 0 : CH 165	 802.11ax (HE40) / Chain 1 : CH 151
 802.11ax (HE80) / Chain 1 : CH 155	

7.4 6 dB Bandwidth

Input Power:	54 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Louis Yang

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	15.11	15.05	0.5	Pass
157	5785	15.08	15.09	0.5	Pass
165	5825	14.99	13.83	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	11.83	12.87	0.5	Pass
157	5785	13.84	18.66	0.5	Pass
165	5825	16.50	15.71	0.5	Pass

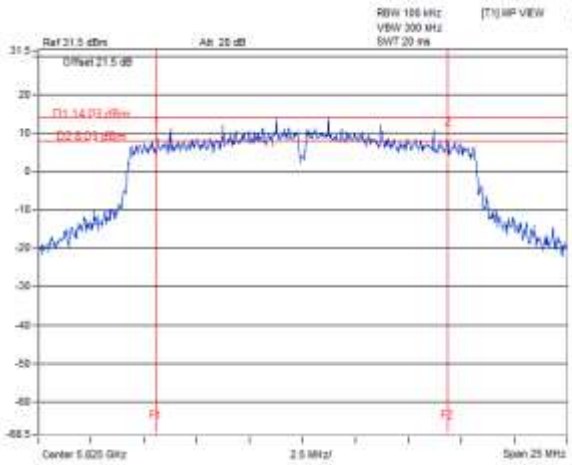
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
151	5755	37.76	31.03	0.5	Pass
159	5795	37.62	36.91	0.5	Pass

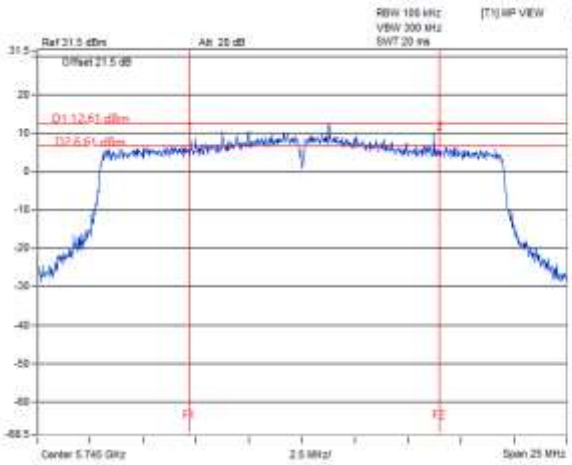
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
155	5775	47.54	66.45	0.5	Pass

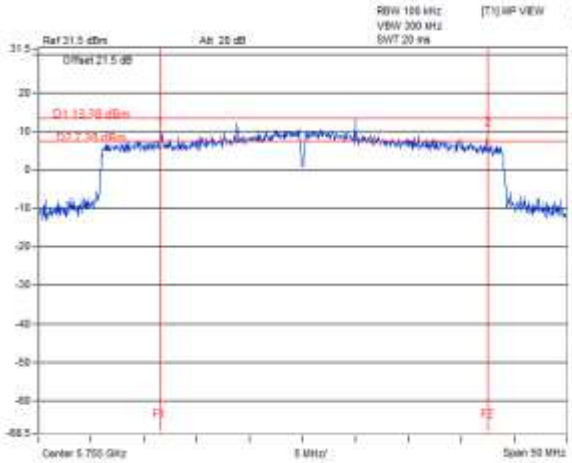
Spectrum Plot of Minimum Value



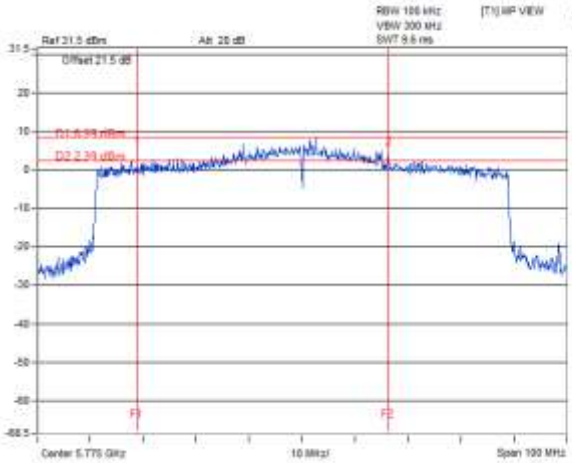
802.11a / Chain 1 : CH 165



802.11ax (HE20) / Chain 0 : CH 149



802.11ax (HE40) / Chain 1 : CH 151



802.11ax (HE80) / Chain 0 : CH 155

7.5 Occupied Bandwidth

Input Power:	54 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Louis Yang

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.50	16.38
40	5200	16.32	16.38
48	5240	16.32	16.32
52	5260	16.32	16.32
60	5300	16.32	16.32
64	5320	16.32	16.32
100	5500	16.32	16.32
116	5580	16.32	16.32
140	5700	16.32	16.38
149	5745	16.38	16.38
157	5785	16.38	16.38
165	5825	16.38	16.44

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.90	18.84
40	5200	18.84	18.84
48	5240	18.84	18.84
52	5260	18.84	18.84
60	5300	18.90	18.84
64	5320	18.90	18.84
100	5500	18.84	18.90
116	5580	18.84	18.90
140	5700	18.84	18.78
149	5745	18.90	18.90
157	5785	18.90	18.90
165	5825	18.84	18.90

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.68	37.68
46	5230	37.80	37.80
54	5270	37.80	37.68
62	5310	37.80	37.68
102	5510	37.68	37.80
110	5550	37.80	37.68
134	5670	37.68	37.80
151	5755	38.76	39.36
159	5795	38.88	39.00

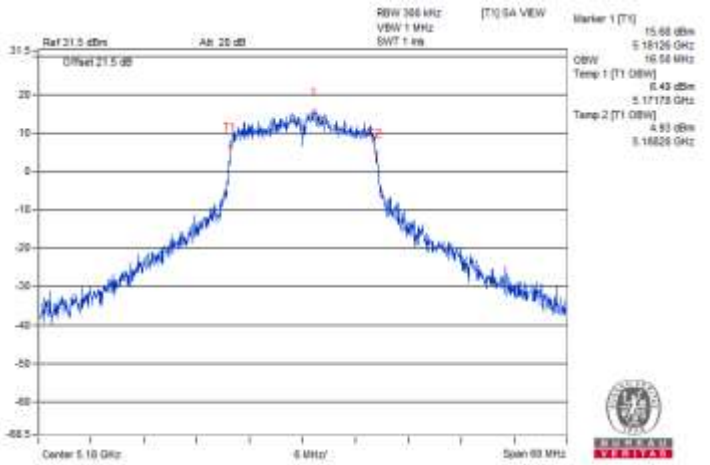
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	76.56	76.80
58	5290	76.56	76.32
106	5530	76.80	76.80
122	5610	76.56	76.80
155	5775	76.56	77.04

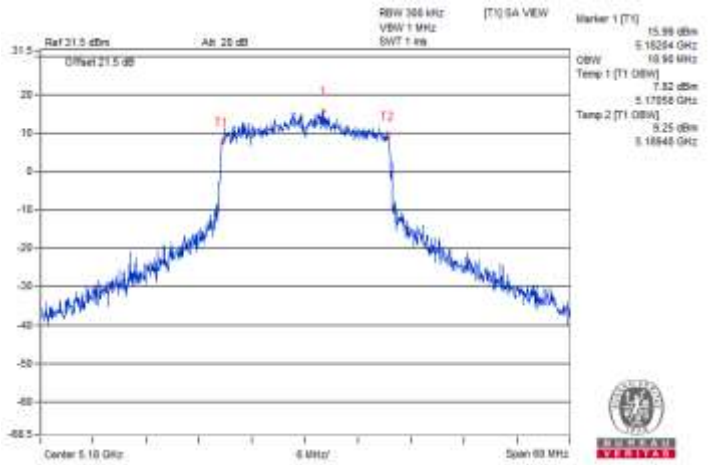
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	77.28	76.32
50 (U-NII-2A)	5250	76.80	77.76
114	5570	154.56	154.56

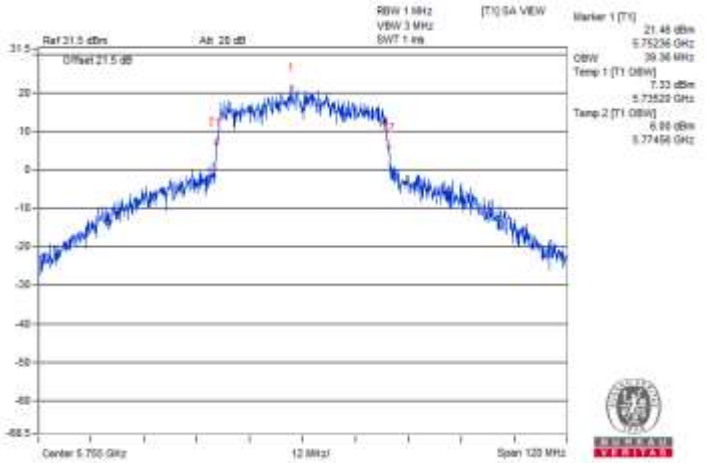
Spectrum Plot of Maximum Value



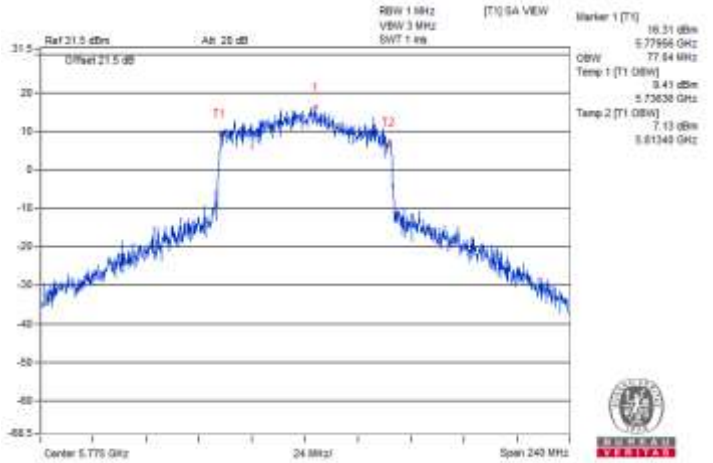
802.11a / Chain 0 : CH 36



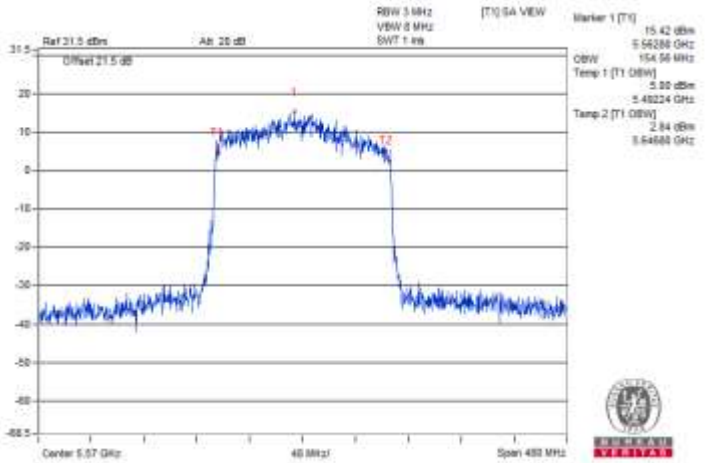
802.11ax (HE20) / Chain 0 : CH 36



802.11ax (HE40) / Chain 1 : CH 151

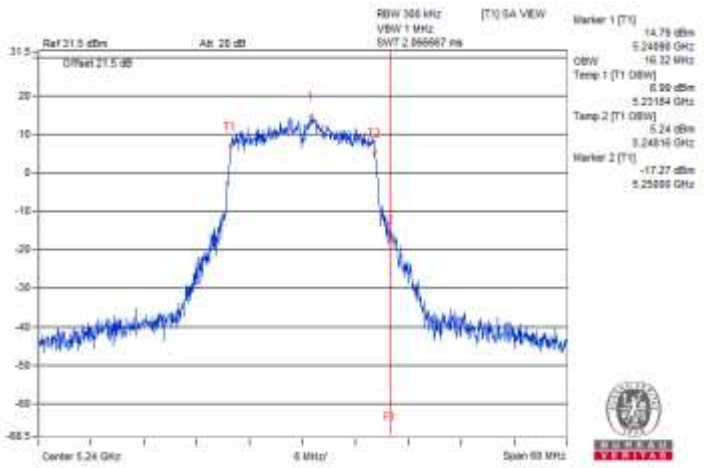


802.11ax (HE80) / Chain 1 : CH 155

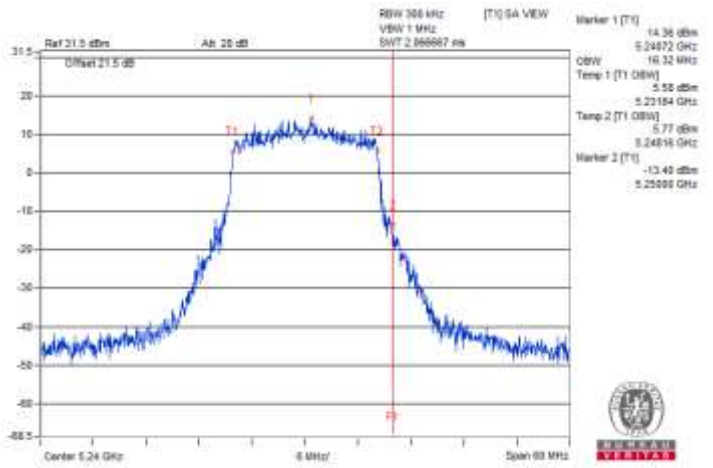


802.11ax (HE160) / Chain 0 : CH 114

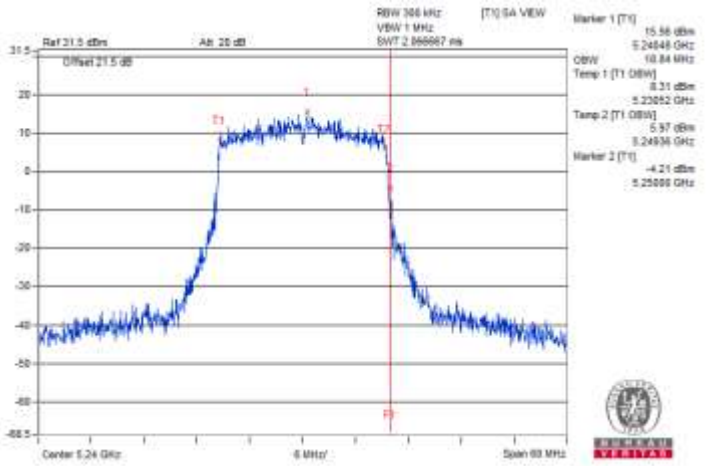
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



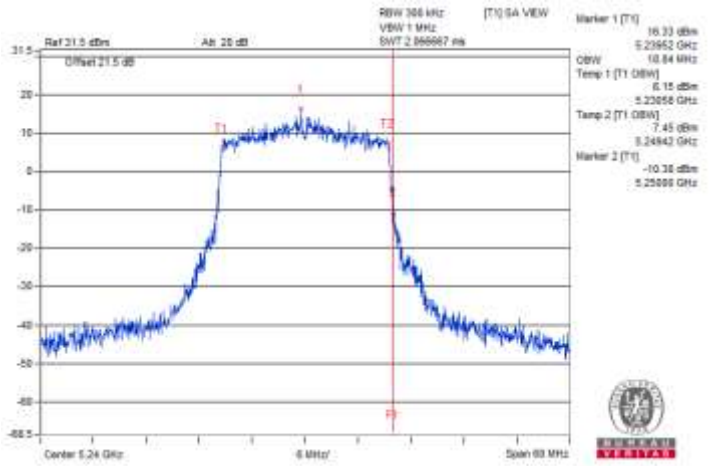
802.11a / Chain 0 : CH 48



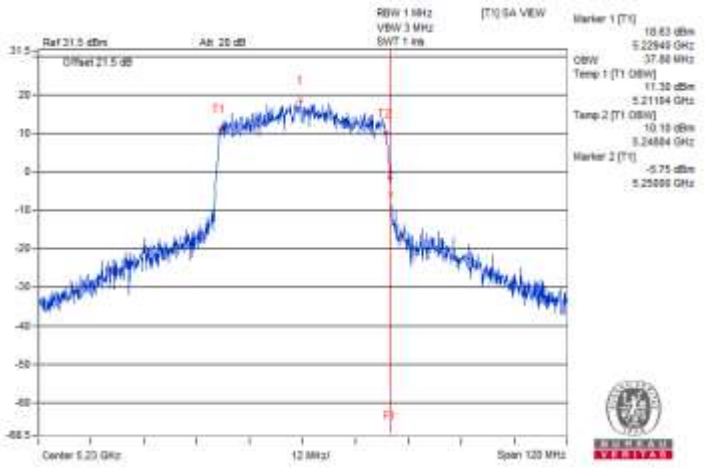
802.11a / Chain 1 : CH 48



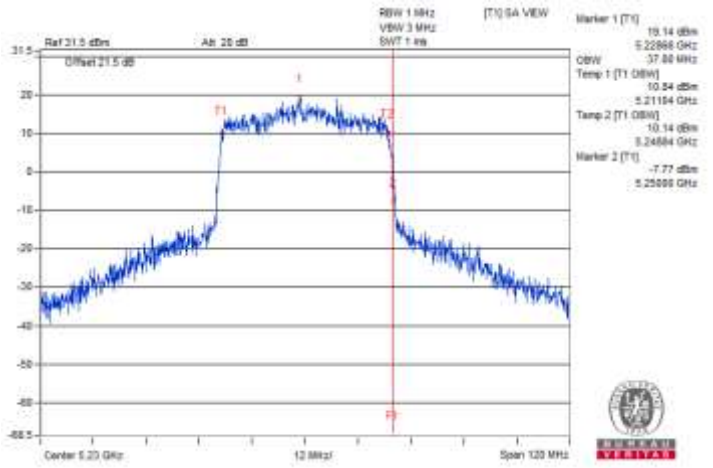
802.11ax (HE20) / Chain 0 : CH 48



802.11ax (HE20) / Chain 1 : CH 48

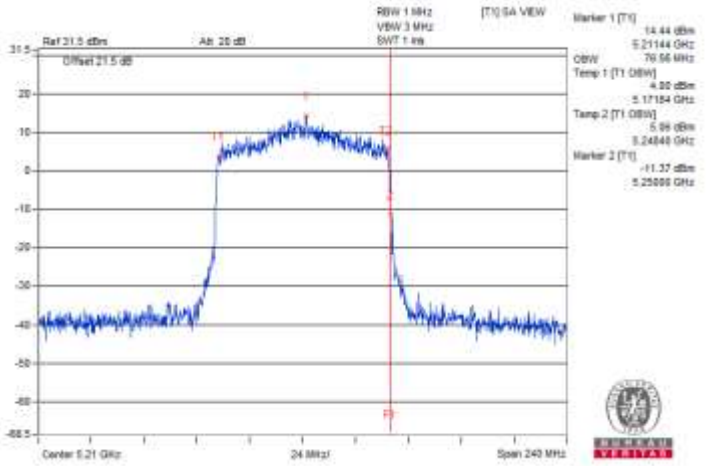


802.11ax (HE40) / Chain 0 : CH 46

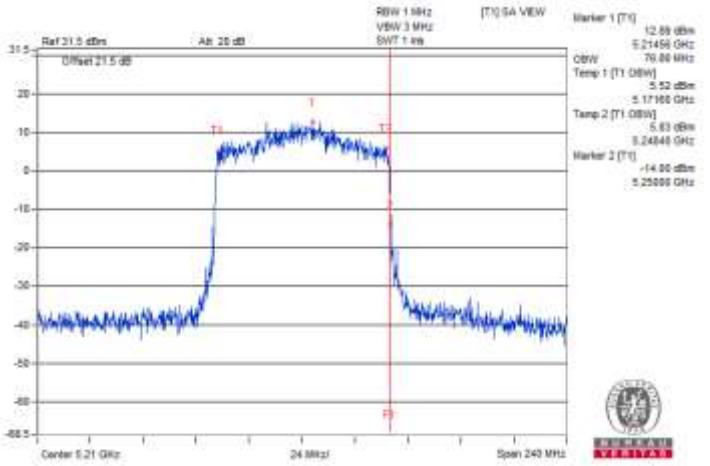


802.11ax (HE40) / Chain 1 : CH 46

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

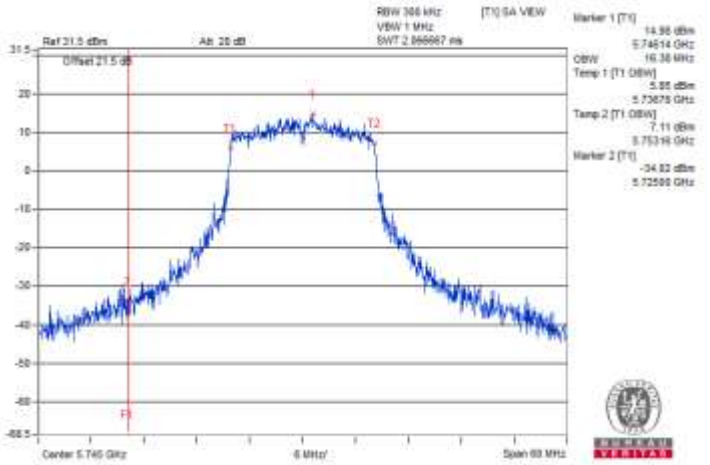


802.11ax (HE80) / Chain 0 : CH 42

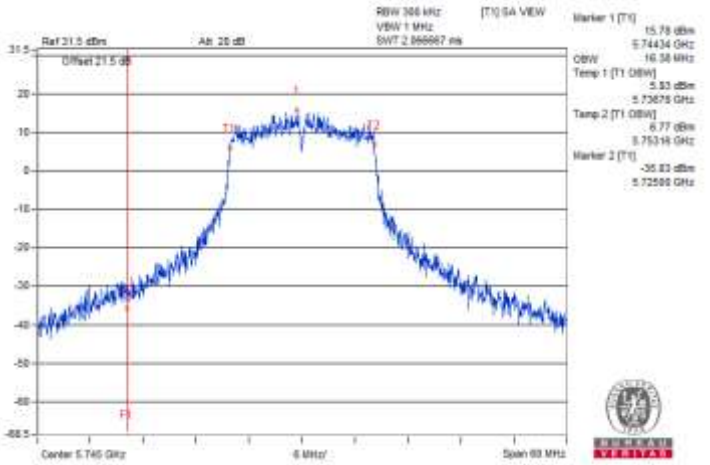


802.11ax (HE80) / Chain 1 : CH 42

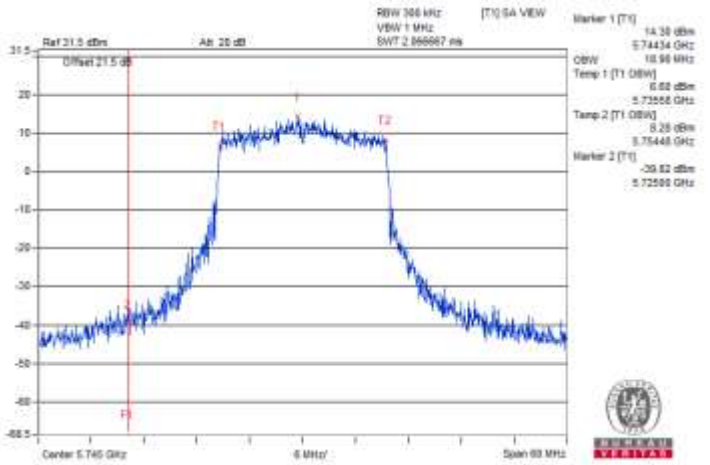
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C)



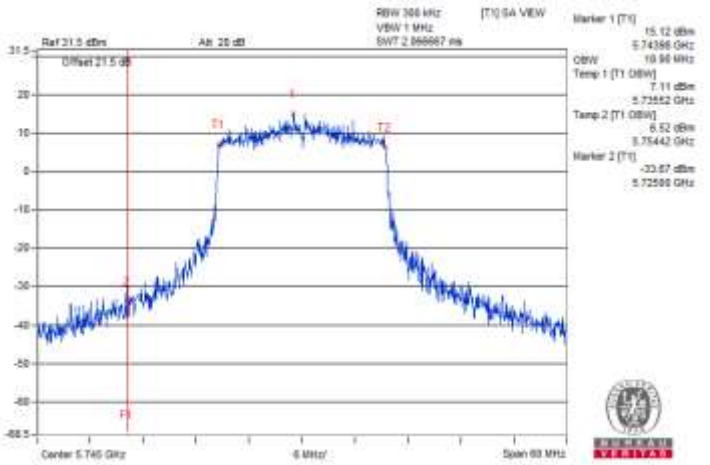
802.11a / Chain 0 : CH 149



802.11a / Chain 1 : CH 149



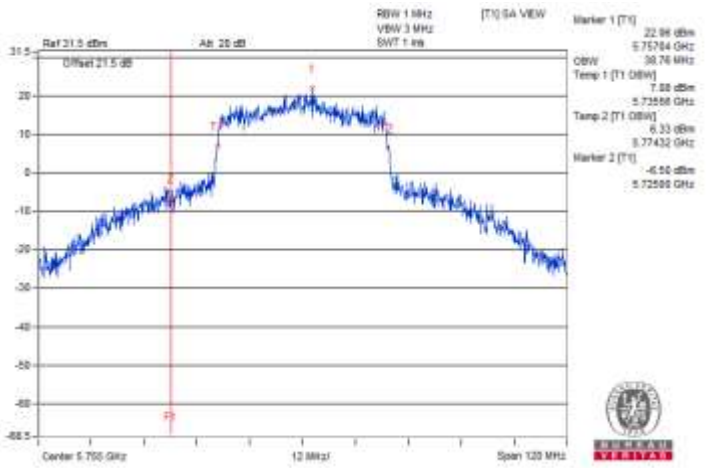
802.11ax (HE20) / Chain 0 : CH 149



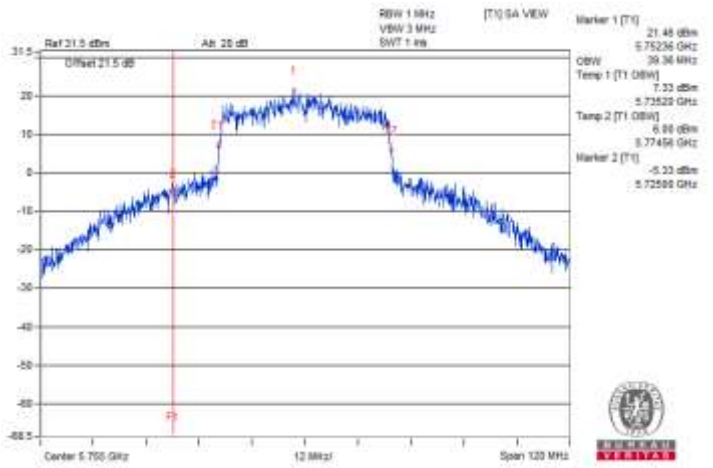
802.11ax (HE20) / Chain 1 : CH 149

Spectrum Plot for nearby DFS band

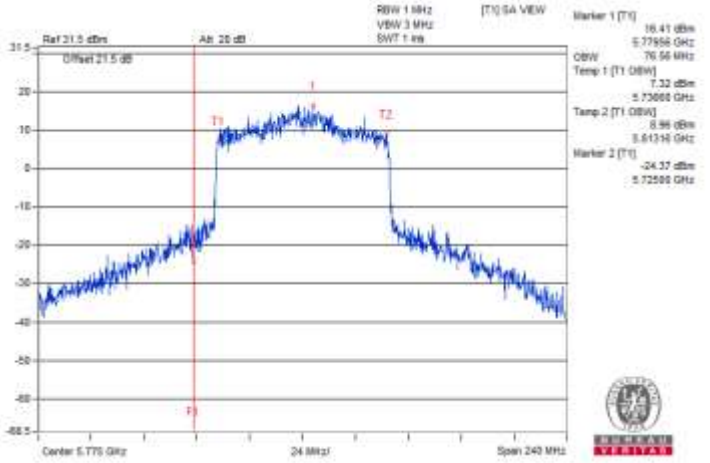
(DFS is required, if 99% OCP straddle into U-NII-2C)



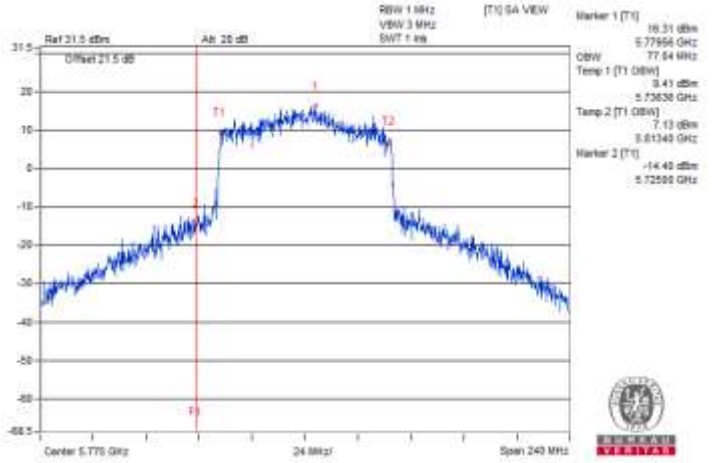
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151



802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155

7.6 Frequency Stability

Input Power:	54 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Louis Yang

Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (℃)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
40	12	5179.9759	Pass	5179.98	Pass	5179.9768	Pass	5179.981	Pass
30	12	5180.014	Pass	5180.0151	Pass	5180.0185	Pass	5180.0185	Pass
20	12	5180.0099	Pass	5180.0126	Pass	5180.0096	Pass	5180.0109	Pass
10	12	5180.0211	Pass	5180.0218	Pass	5180.0204	Pass	5180.0208	Pass
0	12	5180.0264	Pass	5180.0262	Pass	5180.0256	Pass	5180.0274	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (℃)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	13.8	5180.0167	Pass	5180.0176	Pass	5180.0125	Pass	5180.0175	Pass
	12	5180.0211	Pass	5180.0218	Pass	5180.0204	Pass	5180.0208	Pass
	10.2	5180.0135	Pass	5180.0128	Pass	5180.0122	Pass	5180.01	Pass

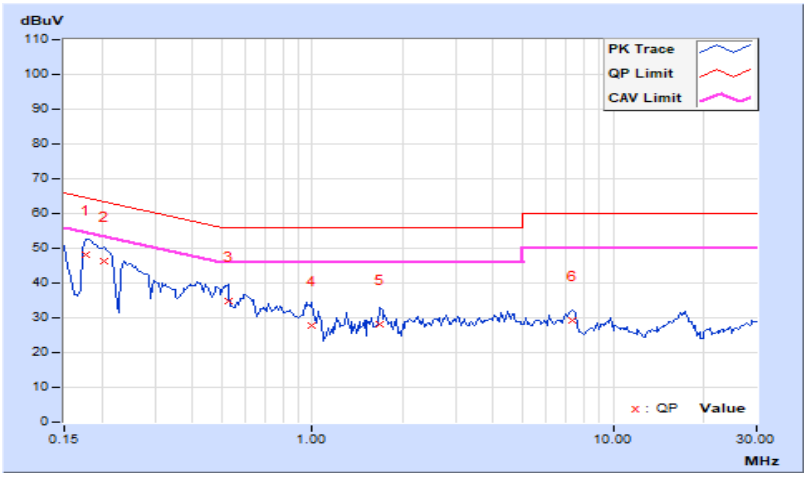
7.7 AC Power Conducted Emissions

RF Mode	802.11ax (HE40)	**Channel**	CH 159：5795 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, 71% RH
Tested By	Louis Yang		

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	**0.17734**	**9.93**	**38.15**	**11.44**	**48.08**	**21.37**	**64.61**	**54.61**	**-16.53**	**-33.24**
2	0.20469	9.93	36.40	16.76	46.33	26.69	63.42	53.42	-17.09	-26.73
3	0.52500	9.95	24.79	14.62	34.74	24.57	56.00	46.00	-21.26	-21.43
4	0.99766	9.97	17.89	9.89	27.86	19.86	56.00	46.00	-28.14	-26.14
5	1.67969	9.99	18.08	7.80	28.07	17.79	56.00	46.00	-27.93	-28.21
6	7.34766	10.30	18.93	13.30	29.23	23.60	60.00	50.00	-30.77	-26.40

Remarks:

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

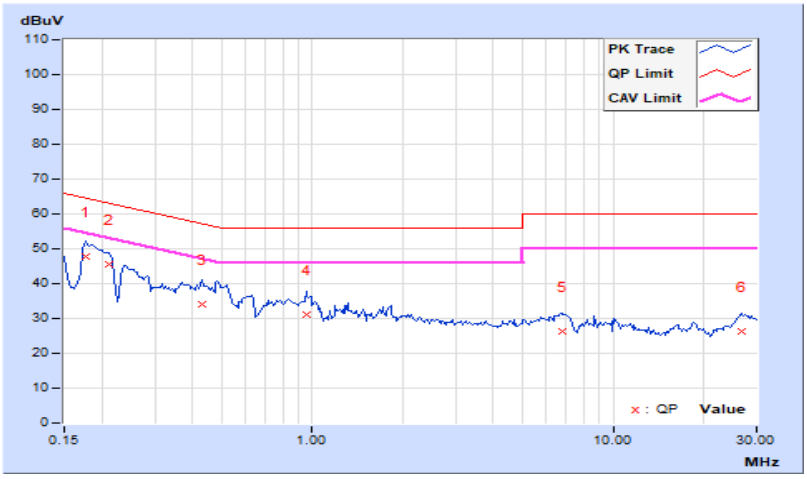


RF Mode	802.11ax (HE40)	**Channel**	CH 159：5795 MHz
Frequency Range	150 kHz ~ 30 MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 71% RH
Tested By	Louis Yang		

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	0.17734	9.99	37.61	10.86	47.60	20.85	64.61	54.61	-17.01	-33.76
2	0.21250	9.99	35.67	14.33	45.66	24.32	63.11	53.11	-17.45	-28.79
3	0.43125	10.00	24.03	8.20	34.03	18.20	57.23	47.23	-23.20	-29.03
4	0.95469	10.02	20.91	8.95	30.93	18.97	56.00	46.00	-25.07	-27.03
5	6.76953	10.27	15.85	9.75	26.12	20.02	60.00	50.00	-33.88	-29.98
6	26.59375	11.03	15.09	10.17	26.12	21.20	60.00	50.00	-33.88	-28.80

Remarks:

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



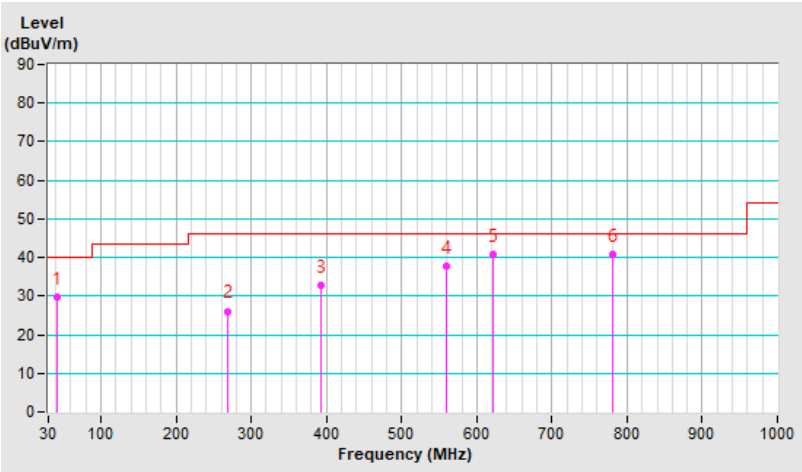
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE40)	**Channel**	CH 159：5795 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 72% RH
Tested By	Louis Yang		

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	42.43	29.8 QP	40.0	-10.2	1.00 H	223	38.0	-8.2
2	268.50	26.1 QP	46.0	-19.9	1.00 H	358	34.3	-8.2
3	393.66	32.8 QP	46.0	-13.2	1.50 H	15	37.8	-5.0
4	559.95	37.7 QP	46.0	-8.3	1.50 H	0	38.9	-1.2
5	**621.83**	**40.9 QP**	**46.0**	**-5.1**	**2.00 H**	**353**	**40.4**	**0.5**
6	781.43	40.8 QP	46.0	-5.2	2.50 H	358	37.5	3.3

Remarks:

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

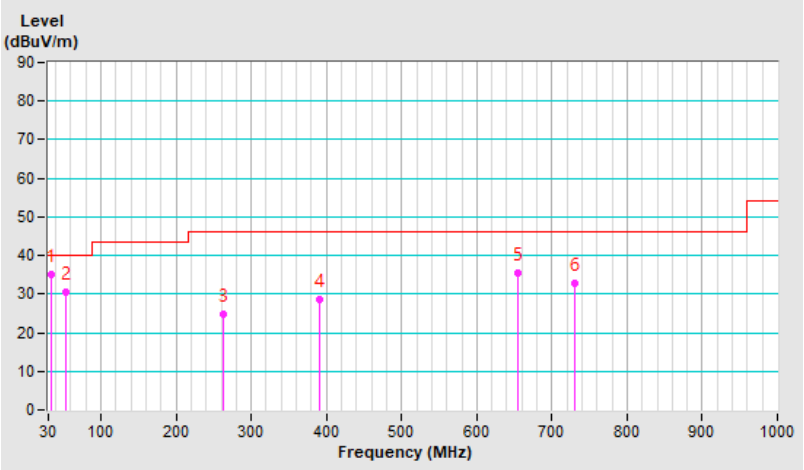


RF Mode	802.11ax (HE40)	Channel	CH 159：5795 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22°C, 72% RH
Tested By	Louis Yang		

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	**34.32**	**34.9 QP**	**40.0**	**-5.1**	**1.00 V**	**96**	**43.8**	**-8.9**
2	53.76	30.6 QP	40.0	-9.4	1.50 V	24	38.8	-8.2
3	263.70	24.9 QP	46.0	-21.1	1.50 V	280	33.4	-8.5
4	391.46	28.5 QP	46.0	-17.5	2.00 V	357	33.5	-5.0
5	654.16	35.4 QP	46.0	-10.6	2.00 V	67	34.4	1.0
6	730.14	32.7 QP	46.0	-13.3	2.50 V	358	30.4	2.3

Remarks:

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



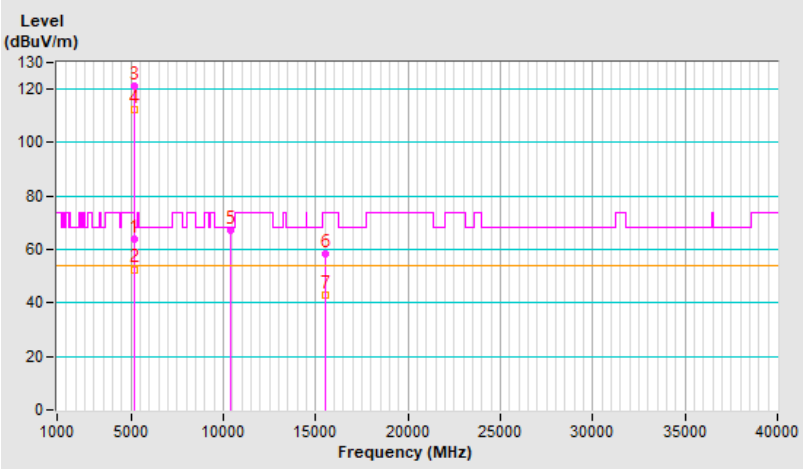
7.9 Unwanted Emissions above 1 GHz

RF Mode	802.11a	**Channel**	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	64.1 PK	74.0	-9.9	2.64 H	60	60.7	3.4
2	5150.00	52.6 AV	54.0	-1.4	2.64 H	60	49.2	3.4
3	*5180.00	121.4 PK			2.64 H	60	118.3	3.1
4	*5180.00	112.5 AV			2.64 H	60	109.4	3.1
5	#10360.00	67.4 PK	68.2	-0.8	1.73 H	346	55.9	11.5
6	15540.00	58.6 PK	74.0	-15.4	1.50 H	35	46.4	12.2
7	15540.00	42.9 AV	54.0	-11.1	1.50 H	35	30.7	12.2

Remarks:

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

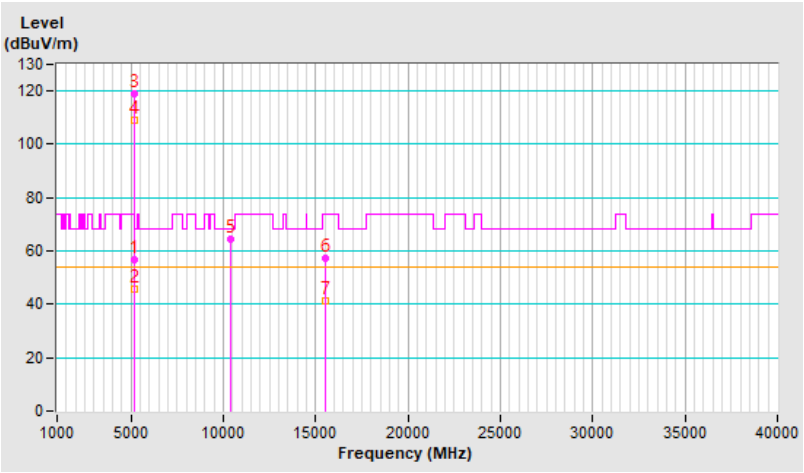


RF Mode	802.11a	Channel	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	56.5 PK	74.0	-17.5	3.85 V	333	53.1	3.4
2	5150.00	45.8 AV	54.0	-8.2	3.85 V	333	42.4	3.4
3	*5180.00	118.8 PK			3.85 V	333	115.7	3.1
4	*5180.00	109.2 AV			3.85 V	333	106.1	3.1
5	#10360.00	64.6 PK	68.2	-3.6	3.97 V	360	53.1	11.5
6	15540.00	57.5 PK	74.0	-16.5	1.40 V	339	45.3	12.2
7	15540.00	41.2 AV	54.0	-12.8	1.40 V	339	29.0	12.2

Remarks:

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

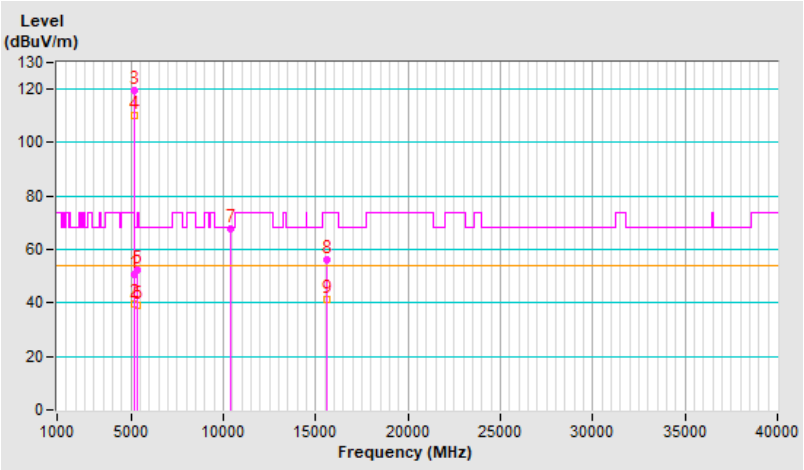


RF Mode	802.11a	Channel	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	50.7 PK	74.0	-23.3	2.57 H	51	47.3	3.4
2	5150.00	39.6 AV	54.0	-14.4	2.57 H	51	36.2	3.4
3	*5200.00	119.4 PK			2.57 H	51	116.5	2.9
4	*5200.00	109.9 AV			2.57 H	51	107.0	2.9
5	5350.00	52.4 PK	74.0	-21.6	2.57 H	51	49.5	2.9
6	5350.00	39.0 AV	54.0	-15.0	2.57 H	51	36.1	2.9
7	#10400.00	67.6 PK	68.2	-0.6	2.49 H	76	56.0	11.6
8	15600.00	56.0 PK	74.0	-18.0	2.47 H	334	44.3	11.7
9	15600.00	41.5 AV	54.0	-12.5	2.47 H	334	29.8	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.

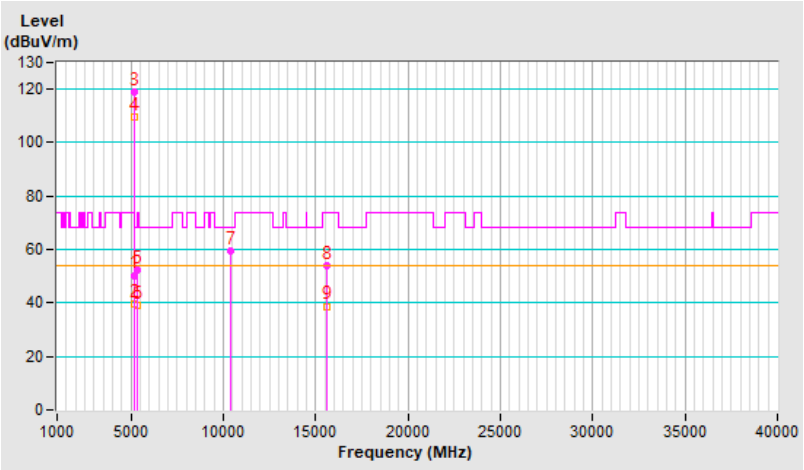


RF Mode	802.11a	Channel	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	50.4 PK	74.0	-23.6	4.00 V	335	47.0	3.4
2	5150.00	39.6 AV	54.0	-14.4	4.00 V	335	36.2	3.4
3	*5200.00	119.0 PK			4.00 V	335	116.1	2.9
4	*5200.00	109.7 AV			4.00 V	335	106.8	2.9
5	5350.00	52.3 PK	74.0	-21.7	4.00 V	335	49.4	2.9
6	5350.00	39.2 AV	54.0	-14.8	4.00 V	335	36.3	2.9
7	#10400.00	59.7 PK	68.2	-8.5	3.96 V	360	48.1	11.6
8	15600.00	53.8 PK	74.0	-20.2	1.45 V	344	42.1	11.7
9	15600.00	38.8 AV	54.0	-15.2	1.45 V	344	27.1	11.7

Remarks:

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

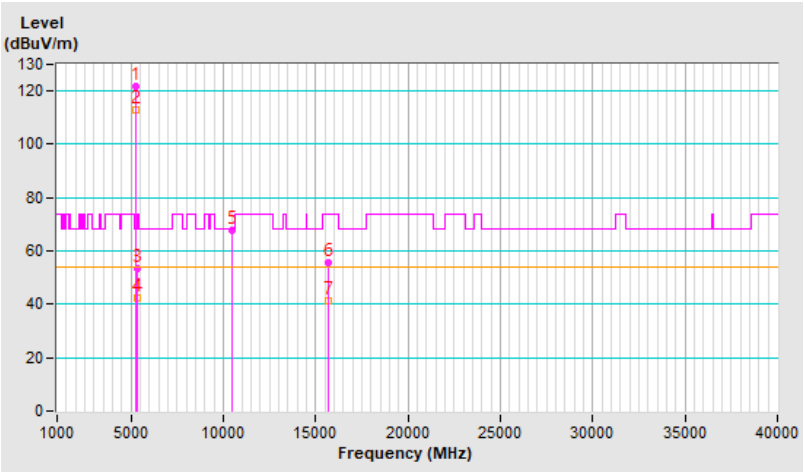


RF Mode	802.11a	Channel	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	121.6 PK			2.59 H	55	119.0	2.6
2	*5240.00	112.8 AV			2.59 H	55	110.2	2.6
3	5350.00	53.6 PK	74.0	-20.4	2.57 H	60	50.7	2.9
4	5350.00	42.5 AV	54.0	-11.5	2.57 H	60	39.6	2.9
5	#10480.00	67.8 PK	68.2	-0.4	1.04 H	67	56.2	11.6
6	15720.00	55.8 PK	74.0	-18.2	2.50 H	339	43.9	11.9
7	15720.00	41.5 AV	54.0	-12.5	2.50 H	339	29.6	11.9

Remarks:

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

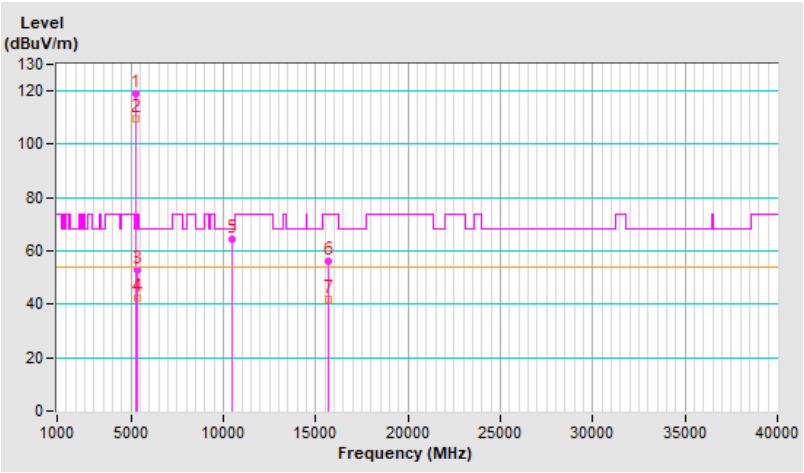


RF Mode	802.11a	Channel	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	119.0 PK			3.80 V	324	116.4	2.6
2	*5240.00	109.4 AV			3.80 V	324	106.8	2.6
3	5350.00	53.0 PK	74.0	-21.0	2.60 V	74	50.1	2.9
4	5350.00	42.2 AV	54.0	-11.8	2.60 V	74	39.3	2.9
5	#10480.00	64.2 PK	68.2	-4.0	3.96 V	360	52.6	11.6
6	15720.00	56.0 PK	74.0	-18.0	1.45 V	325	44.1	11.9
7	15720.00	41.7 AV	54.0	-12.3	1.45 V	325	29.8	11.9

Remarks:

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

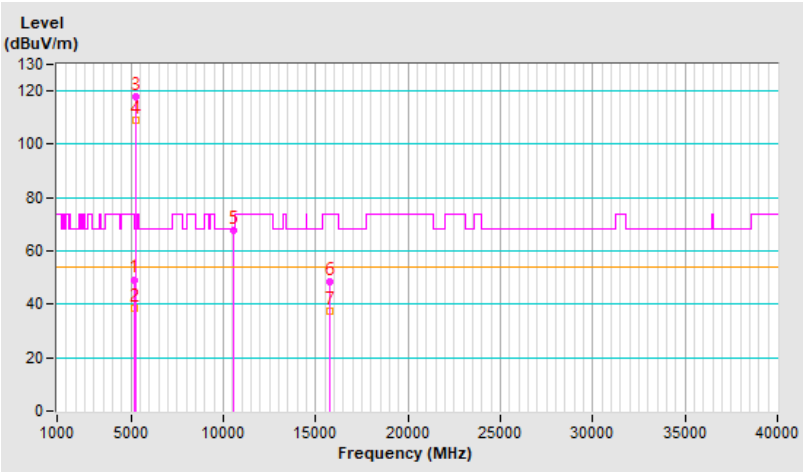


RF Mode	802.11a	Channel	CH 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	49.3 PK	74.0	-24.7	3.91 H	340	45.9	3.4
2	5150.00	38.5 AV	54.0	-15.5	3.91 H	340	35.1	3.4
3	*5260.00	118.0 PK			3.91 H	340	115.4	2.6
4	*5260.00	109.3 AV			3.91 H	340	106.7	2.6
5	#10520.00	67.9 PK	68.2	-0.3	1.03 H	68	56.1	11.8
6	15780.00	48.6 PK	74.0	-25.4	2.49 H	348	36.3	12.3
7	15780.00	37.2 AV	54.0	-16.8	2.49 H	348	24.9	12.3

Remarks:

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

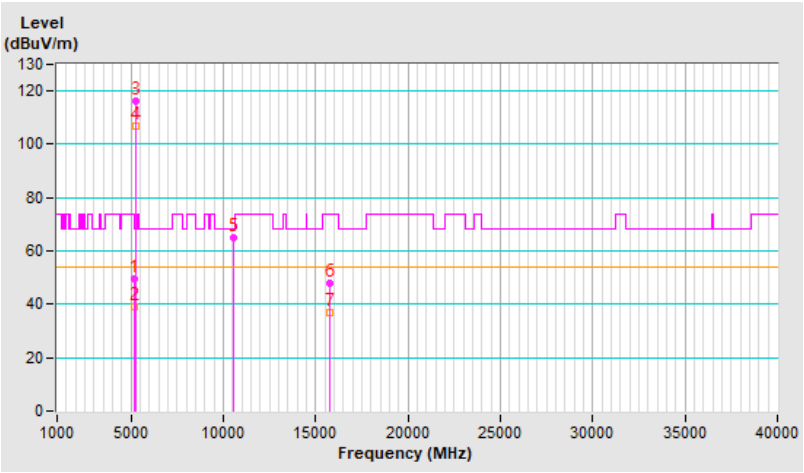


RF Mode	802.11a	Channel	CH 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	49.8 PK	74.0	-24.2	3.95 V	333	46.4	3.4
2	5150.00	39.0 AV	54.0	-15.0	3.95 V	333	35.6	3.4
3	*5260.00	116.2 PK			3.95 V	333	113.6	2.6
4	*5260.00	106.9 AV			3.95 V	333	104.3	2.6
5	#10520.00	65.1 PK	68.2	-3.1	3.98 V	360	53.3	11.8
6	15780.00	48.1 PK	74.0	-25.9	1.36 V	354	35.8	12.3
7	15780.00	36.8 AV	54.0	-17.2	1.36 V	354	24.5	12.3

Remarks:

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

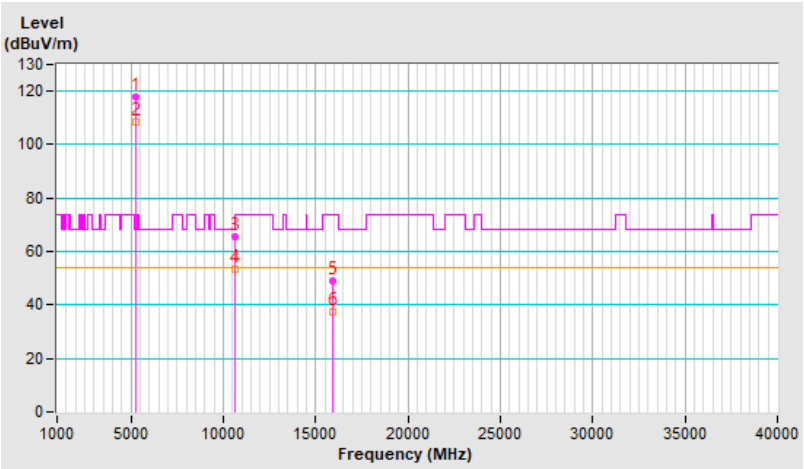


RF Mode	802.11a	Channel	CH 60：5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	117.8 PK			3.96 H	355	115.3	2.5
2	*5300.00	108.6 AV			3.96 H	355	106.1	2.5
3	10600.00	65.4 PK	74.0	-8.6	1.00 H	70	53.2	12.2
4	10600.00	53.3 AV	54.0	-0.7	1.00 H	70	41.1	12.2
5	15900.00	48.8 PK	74.0	-25.2	2.54 H	360	36.2	12.6
6	15900.00	37.3 AV	54.0	-16.7	2.54 H	360	24.7	12.6

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.

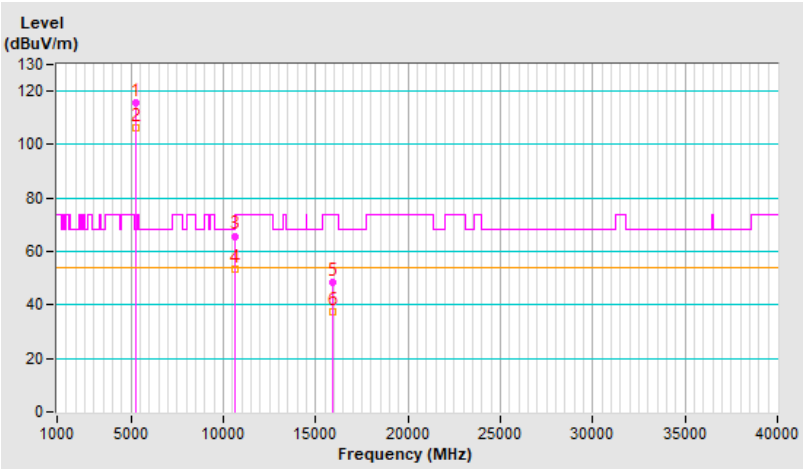


RF Mode	802.11a	Channel	CH 60：5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	115.7 PK			3.90 V	339	113.2	2.5
2	*5300.00	106.4 AV			3.90 V	339	103.9	2.5
3	10600.00	65.8 PK	74.0	-8.2	1.01 V	82	53.6	12.2
4	10600.00	53.6 AV	54.0	-0.4	1.01 V	82	41.4	12.2
5	15900.00	48.5 PK	74.0	-25.5	2.56 V	352	35.9	12.6
6	15900.00	37.2 AV	54.0	-16.8	2.56 V	352	24.6	12.6

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.

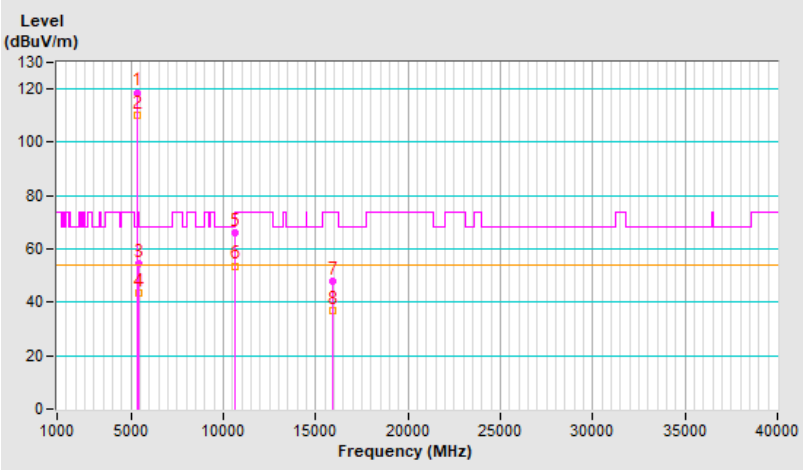


RF Mode	802.11a	Channel	CH 64：5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	118.7 PK			1.95 H	63	115.9	2.8
2	*5320.00	110.1 AV			1.95 H	63	107.3	2.8
3	5415.20	54.3 PK	74.0	-19.7	1.95 H	63	51.2	3.1
4	5415.20	43.4 AV	54.0	-10.6	1.95 H	63	40.3	3.1
5	10640.00	66.2 PK	74.0	-7.8	1.00 H	67	54.0	12.2
6	10640.00	53.7 AV	54.0	-0.3	1.00 H	67	41.5	12.2
7	15960.00	48.1 PK	74.0	-25.9	2.55 H	360	35.8	12.3
8	15960.00	36.8 AV	54.0	-17.2	2.55 H	360	24.5	12.3

Remarks:

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

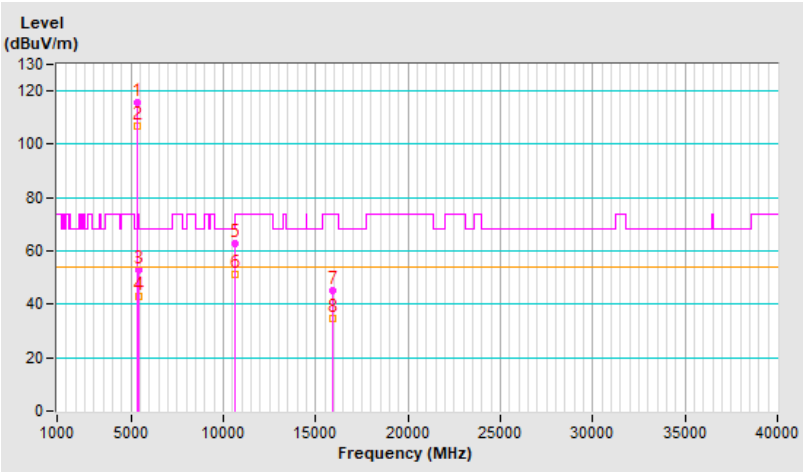


RF Mode	802.11a	Channel	CH 64：5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	115.7 PK			4.00 V	360	112.9	2.8
2	*5320.00	106.8 AV			4.00 V	360	104.0	2.8
3	5415.20	52.7 PK	74.0	-21.3	4.00 V	360	49.6	3.1
4	5415.20	42.7 AV	54.0	-11.3	4.00 V	360	39.6	3.1
5	10640.00	63.0 PK	74.0	-11.0	1.04 V	94	50.8	12.2
6	10640.00	51.4 AV	54.0	-2.6	1.04 V	94	39.2	12.2
7	15960.00	45.3 PK	74.0	-28.7	2.61 V	341	33.0	12.3
8	15960.00	34.5 AV	54.0	-19.5	2.61 V	341	22.2	12.3

Remarks:

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

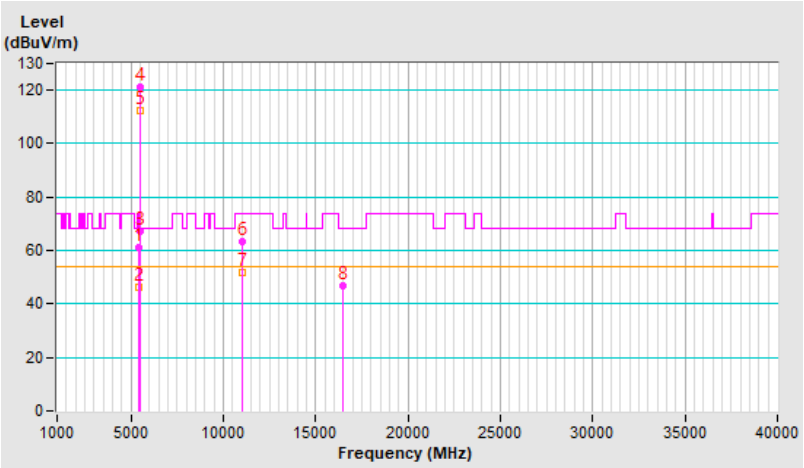


RF Mode	802.11a	Channel	CH 100：5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	2.22 H	45	57.8	3.2
2	5460.00	46.0 AV	54.0	-8.0	2.22 H	45	42.8	3.2
3	#5470.00	67.4 PK	68.2	-0.8	2.22 H	45	64.2	3.2
4	*5500.00	121.0 PK			2.22 H	45	117.8	3.2
5	*5500.00	112.3 AV			2.22 H	45	109.1	3.2
6	11000.00	63.4 PK	74.0	-10.6	2.67 H	67	50.6	12.8
7	11000.00	51.6 AV	54.0	-2.4	2.67 H	67	38.8	12.8
8	#16500.00	46.9 PK	68.2	-21.3	2.52 H	66	33.1	13.8

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.

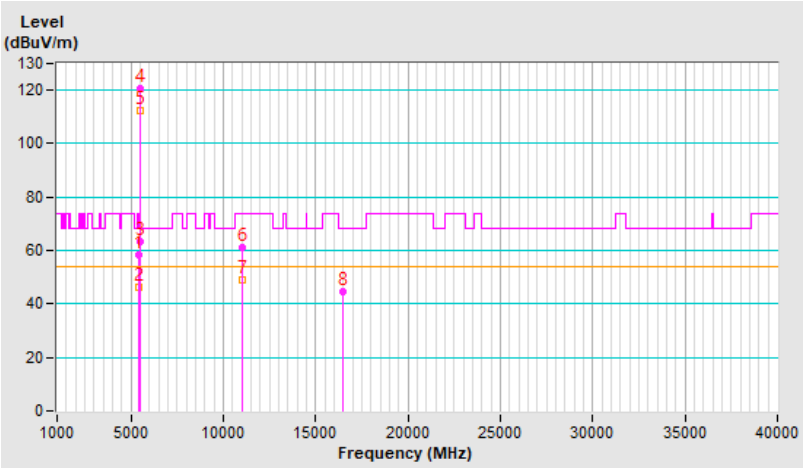


RF Mode	802.11a	Channel	CH 100：5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.3 PK	74.0	-15.7	3.94 V	356	55.1	3.2
2	5460.00	46.0 AV	54.0	-8.0	3.94 V	356	42.8	3.2
3	#5470.00	63.2 PK	68.2	-5.0	3.94 V	356	60.0	3.2
4	*5500.00	120.8 PK			3.94 V	356	117.6	3.2
5	*5500.00	112.1 AV			3.94 V	356	108.9	3.2
6	11000.00	60.9 PK	74.0	-13.1	1.02 V	96	48.1	12.8
7	11000.00	49.1 AV	54.0	-4.9	1.02 V	96	36.3	12.8
8	#16500.00	44.4 PK	68.2	-23.8	2.62 V	355	30.6	13.8

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.

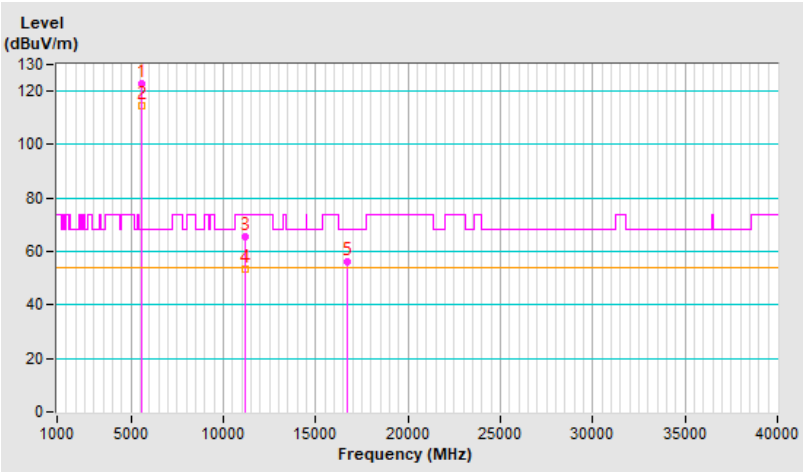


RF Mode	802.11a	Channel	CH 116：5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	122.6 PK			2.27 H	50	119.6	3.0
2	*5580.00	114.7 AV			2.27 H	50	111.7	3.0
3	11160.00	65.4 PK	74.0	-8.6	3.04 H	63	53.2	12.2
4	11160.00	53.6 AV	54.0	-0.4	3.04 H	63	41.4	12.2
5	#16740.00	56.0 PK	68.2	-12.2	2.48 H	325	40.8	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.

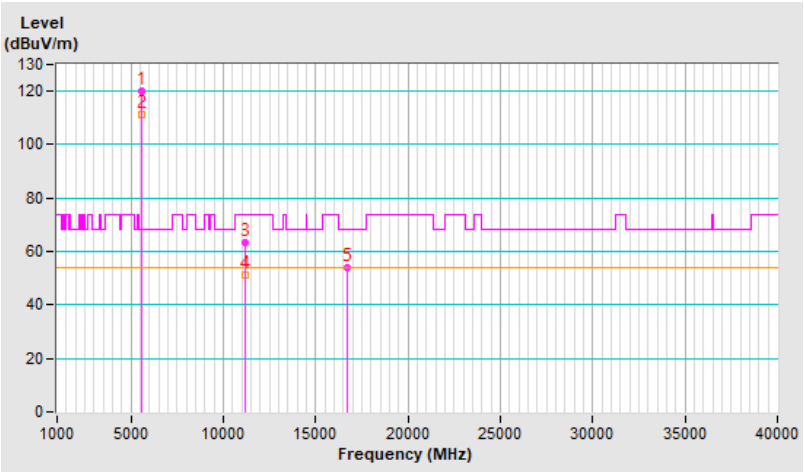


RF Mode	802.11a	Channel	CH 116：5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	120.1 PK			3.92 V	357	117.1	3.0
2	*5580.00	111.4 AV			3.92 V	357	108.4	3.0
3	11160.00	63.2 PK	74.0	-10.8	3.98 V	360	51.0	12.2
4	11160.00	51.4 AV	54.0	-2.6	3.98 V	360	39.2	12.2
5	#16740.00	53.8 PK	68.2	-14.4	1.37 V	350	38.6	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.

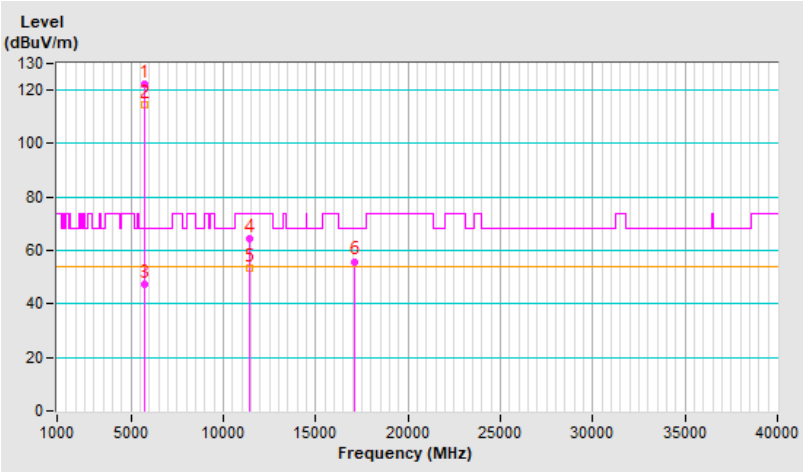


RF Mode	802.11a	Channel	CH 140：5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	122.5 PK			2.26 H	56	119.3	3.2
2	*5700.00	114.5 AV			2.26 H	56	111.3	3.2
3	#5725.00	47.2 PK	68.2	-21.0	2.26 H	56	43.8	3.4
4	11400.00	64.3 PK	74.0	-9.7	2.41 H	68	51.6	12.7
5	11400.00	53.4 AV	54.0	-0.6	2.41 H	68	40.7	12.7
6	#17100.00	55.9 PK	68.2	-12.3	2.48 H	331	38.8	17.1

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.

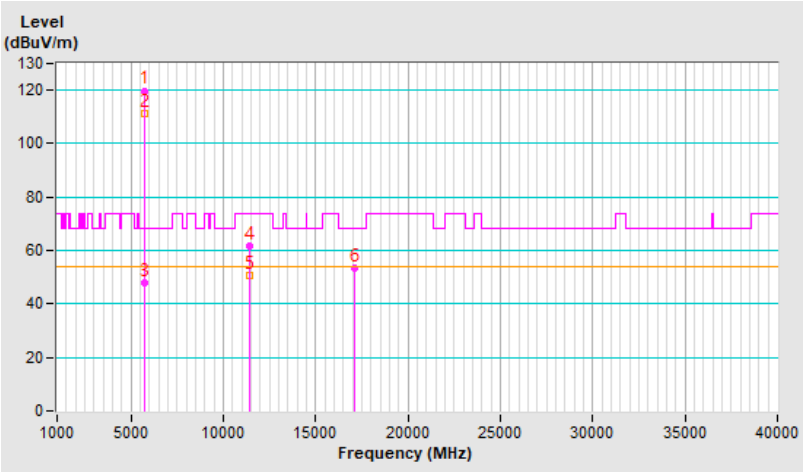


RF Mode	802.11a	Channel	CH 140：5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	119.8 PK			3.92 V	360	116.6	3.2
2	*5700.00	111.0 AV			3.92 V	360	107.8	3.2
3	#5725.00	47.8 PK	68.2	-20.4	3.92 V	360	44.4	3.4
4	11400.00	61.8 PK	74.0	-12.2	3.99 V	360	49.1	12.7
5	11400.00	50.9 AV	54.0	-3.1	3.99 V	360	38.2	12.7
6	#17100.00	53.4 PK	68.2	-14.8	1.39 V	335	36.3	17.1

Remarks:

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

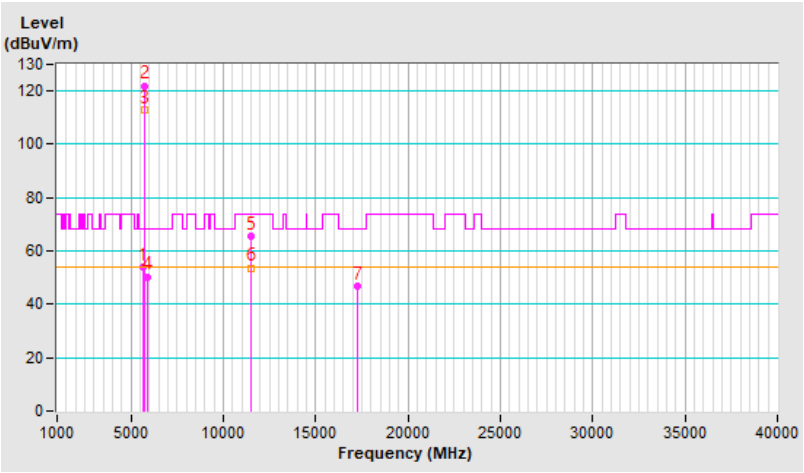


RF Mode	802.11a	Channel	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	#5646.40	53.8 PK	68.2	-14.4	1.50 H	41	50.8	3.0
2	*5745.00	122.0 PK			1.50 H	41	118.5	3.5
3	*5745.00	112.7 AV			1.50 H	41	109.2	3.5
4	#5931.60	50.4 PK	68.2	-17.8	1.50 H	41	46.8	3.6
5	11490.00	65.3 PK	74.0	-8.7	2.41 H	66	52.7	12.6
6	11490.00	53.7 AV	54.0	-0.3	2.41 H	66	41.1	12.6
7	#17235.00	46.7 PK	68.2	-21.5	2.42 H	60	29.4	17.3

Remarks:

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

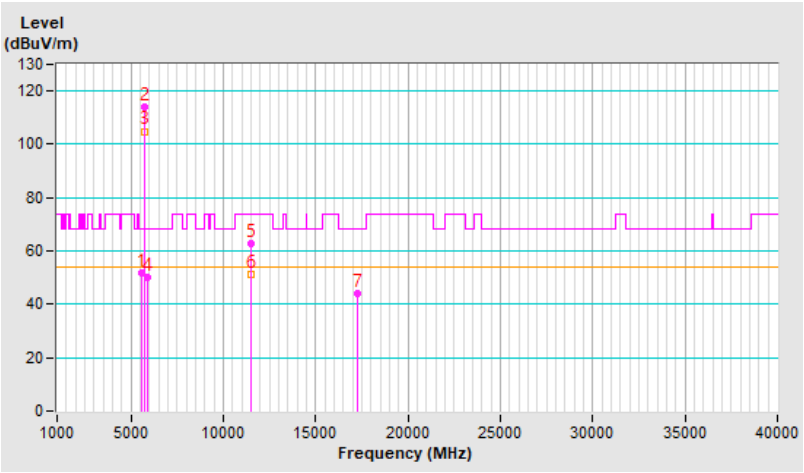


RF Mode	802.11a	Channel	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	#5599.20	51.8 PK	68.2	-16.4	3.95 V	309	48.8	3.0
2	*5745.00	114.0 PK			3.95 V	309	110.5	3.5
3	*5745.00	104.9 AV			3.95 V	309	101.4	3.5
4	#5924.80	50.3 PK	68.2	-17.9	3.95 V	309	46.7	3.6
5	11490.00	62.9 PK	74.0	-11.1	3.97 V	358	50.3	12.6
6	11490.00	51.3 AV	54.0	-2.7	3.97 V	358	38.7	12.6
7	#17235.00	44.3 PK	68.2	-23.9	1.38 V	327	27.0	17.3

Remarks:

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

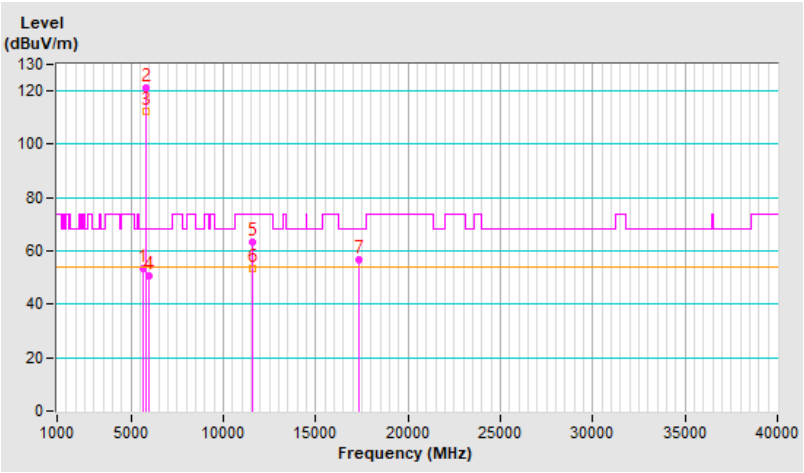


RF Mode	802.11a	Channel	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.50	53.2 PK	68.2	-15.0	1.50 H	40	50.1	3.1
2	*5785.00	121.4 PK			1.50 H	40	117.9	3.5
3	*5785.00	112.6 AV			1.50 H	40	109.1	3.5
4	#5935.60	50.8 PK	68.2	-17.4	1.50 H	40	47.2	3.6
5	11570.00	63.1 PK	74.0	-10.9	2.80 H	66	50.6	12.5
6	11570.00	53.4 AV	54.0	-0.6	2.80 H	66	40.9	12.5
7	#17355.00	56.7 PK	68.2	-11.5	2.46 H	349	39.1	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.

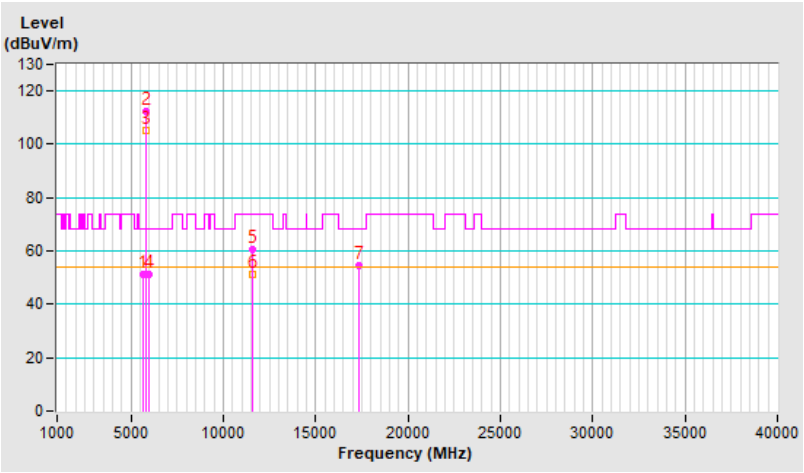


RF Mode	802.11a	Channel	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	#5641.26	51.3 PK	68.2	-16.9	4.00 V	312	48.2	3.1
2	*5785.00	112.3 PK			4.00 V	312	108.8	3.5
3	*5785.00	105.3 AV			4.00 V	312	101.8	3.5
4	#5975.84	51.0 PK	68.2	-17.2	4.00 V	312	47.4	3.6
5	11570.00	60.8 PK	74.0	-13.2	3.91 V	355	48.3	12.5
6	11570.00	51.1 AV	54.0	-2.9	3.91 V	355	38.6	12.5
7	#17355.00	54.4 PK	68.2	-13.8	1.40 V	339	36.8	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.

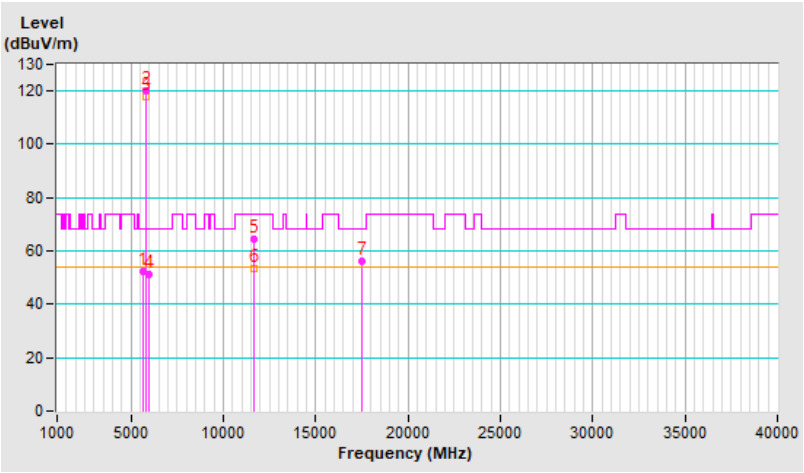


RF Mode	802.11a	Channel	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	#5632.10	52.4 PK	68.2	-15.8	1.49 H	42	49.3	3.1
2	*5825.00	120.3 PK			1.49 H	42	116.6	3.7
3	*5825.00	117.8 AV			1.49 H	42	114.1	3.7
4	#5961.20	51.3 PK	68.2	-16.9	1.49 H	42	47.8	3.5
5	11650.00	64.5 PK	74.0	-9.5	2.02 H	79	52.4	12.1
6	11650.00	53.5 AV	54.0	-0.5	2.02 H	79	41.4	12.1
7	#17475.00	56.0 PK	68.2	-12.2	2.46 H	339	37.8	18.2

Remarks:

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

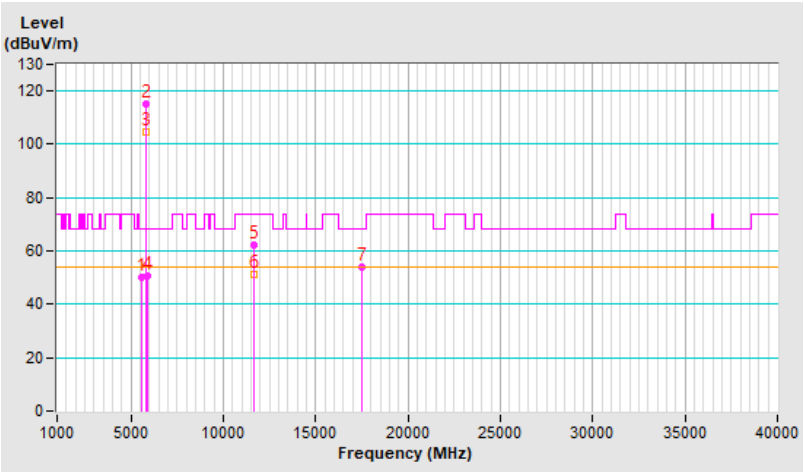


RF Mode	802.11a	Channel	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5611.70	50.3 PK	68.2	-17.9	3.98 V	314	47.3	3.0
2	*5825.00	115.1 PK			3.98 V	314	111.4	3.7
3	*5825.00	104.5 AV			3.98 V	314	100.8	3.7
4	#5930.50	50.5 PK	68.2	-17.7	3.98 V	314	46.9	3.6
5	11650.00	62.2 PK	74.0	-11.8	3.92 V	360	50.1	12.1
6	11650.00	51.2 AV	54.0	-2.8	3.92 V	360	39.1	12.1
7	#17475.00	53.8 PK	68.2	-14.4	1.44 V	328	35.6	18.2

Remarks:

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

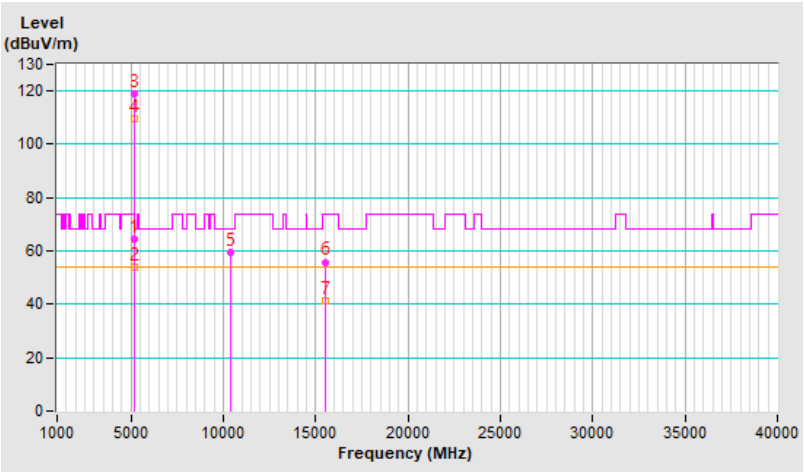


RF Mode	802.11ax (HE20)	Channel	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.5 PK	74.0	-9.5	3.09 H	28	61.1	3.4
2	5150.00	53.8 AV	54.0	-0.2	3.09 H	28	50.4	3.4
3	*5180.00	118.8 PK			3.09 H	28	115.7	3.1
4	*5180.00	109.5 AV			3.09 H	28	106.4	3.1
5	#10360.00	59.7 PK	68.2	-8.5	2.84 H	20	48.2	11.5
6	15540.00	55.9 PK	74.0	-18.1	2.63 H	343	43.7	12.2
7	15540.00	41.2 AV	54.0	-12.8	2.63 H	343	29.0	12.2

Remarks:

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

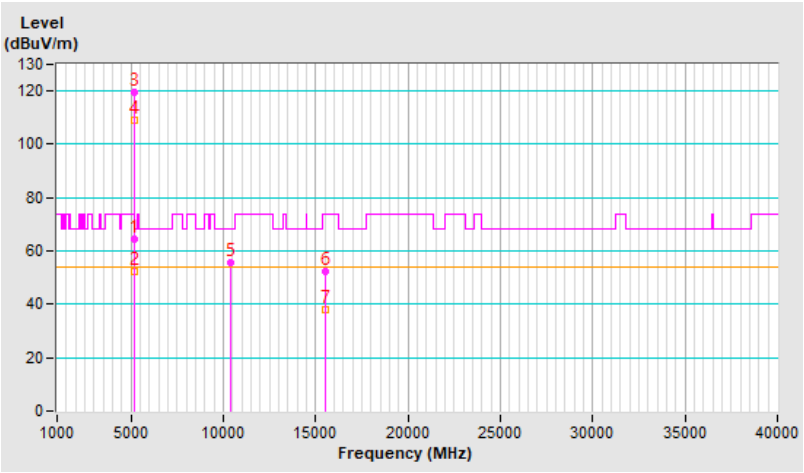


RF Mode	802.11ax (HE20)	Channel	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	64.6 PK	74.0	-9.4	3.87 V	7	61.2	3.4
2	5150.00	52.3 AV	54.0	-1.7	3.87 V	7	48.9	3.4
3	*5180.00	119.3 PK			3.87 V	7	116.2	3.1
4	*5180.00	108.8 AV			3.87 V	7	105.7	3.1
5	#10360.00	55.6 PK	68.2	-12.6	3.95 V	360	44.1	11.5
6	15540.00	52.5 PK	74.0	-21.5	1.42 V	333	40.3	12.2
7	15540.00	37.8 AV	54.0	-16.2	1.42 V	333	25.6	12.2

Remarks:

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

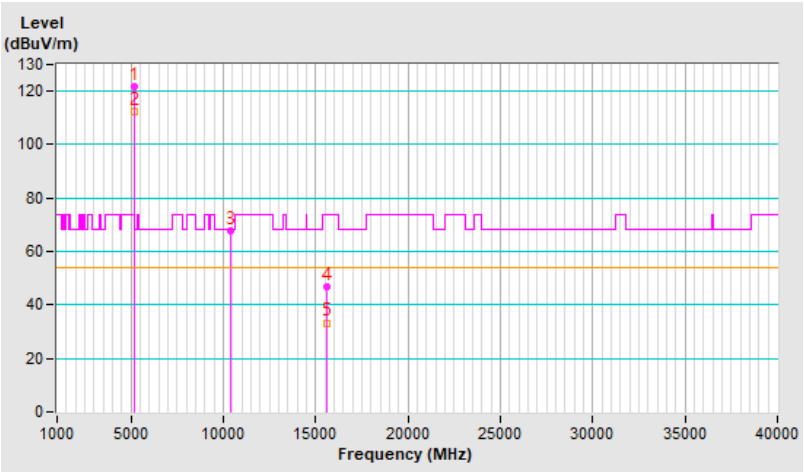


RF Mode	802.11ax (HE20)	Channel	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	121.5 PK			1.74 H	64	118.6	2.9
2	*5200.00	112.4 AV			1.74 H	64	109.5	2.9
3	#10400.00	67.8 PK	68.2	-0.4	1.72 H	333	56.2	11.6
4	15600.00	46.9 PK	74.0	-27.1	2.57 H	79	35.2	11.7
5	15600.00	33.3 AV	54.0	-20.7	2.57 H	79	21.6	11.7

Remarks:

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

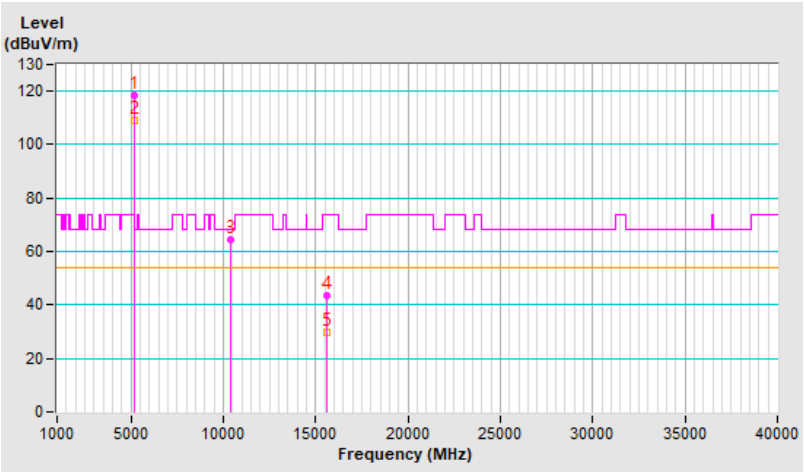


RF Mode	802.11ax (HE20)	Channel	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	118.3 PK			3.89 V	360	115.4	2.9
2	*5200.00	109.2 AV			3.89 V	360	106.3	2.9
3	#10400.00	64.2 PK	68.2	-4.0	3.99 V	360	52.6	11.6
4	15600.00	43.3 PK	74.0	-30.7	1.38 V	321	31.6	11.7
5	15600.00	29.7 AV	54.0	-24.3	1.38 V	321	18.0	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.

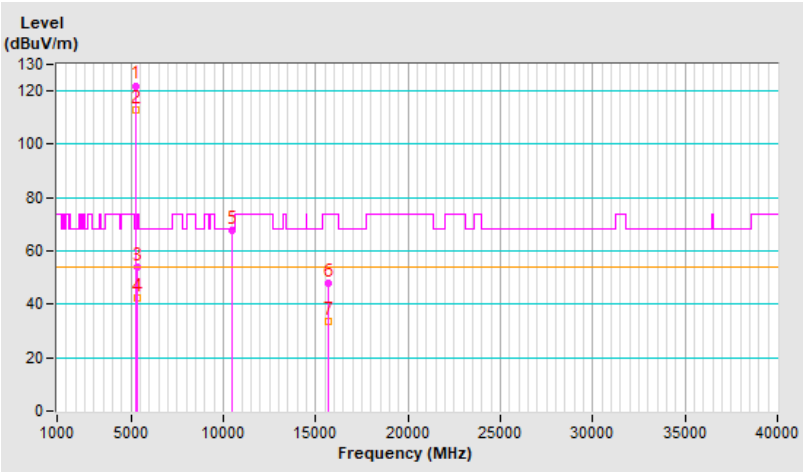


RF Mode	802.11ax (HE20)	Channel	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	122.0 PK			2.63 H	44	119.4	2.6
2	*5240.00	112.9 AV			2.63 H	44	110.3	2.6
3	5350.00	53.9 PK	74.0	-20.1	2.63 H	44	51.0	2.9
4	5350.00	42.6 AV	54.0	-11.4	2.63 H	44	39.7	2.9
5	#10480.00	67.9 PK	68.2	-0.3	1.78 H	349	56.3	11.6
6	15720.00	47.8 PK	74.0	-26.2	2.56 H	92	35.9	11.9
7	15720.00	33.8 AV	54.0	-20.2	2.56 H	92	21.9	11.9

Remarks:

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

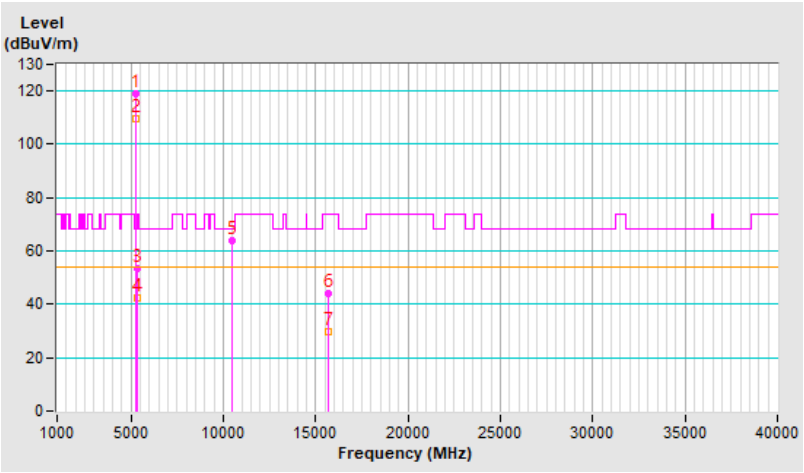


RF Mode	802.11ax (HE20)	Channel	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	119.1 PK			3.82 V	332	116.5	2.6
2	*5240.00	109.7 AV			3.82 V	332	107.1	2.6
3	5350.00	53.4 PK	74.0	-20.6	3.82 V	332	50.5	2.9
4	5350.00	42.6 AV	54.0	-11.4	3.82 V	332	39.7	2.9
5	#10480.00	64.0 PK	68.2	-4.2	4.00 V	353	52.4	11.6
6	15720.00	43.9 PK	74.0	-30.1	1.30 V	341	32.0	11.9
7	15720.00	29.9 AV	54.0	-24.1	1.30 V	341	18.0	11.9

Remarks:

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

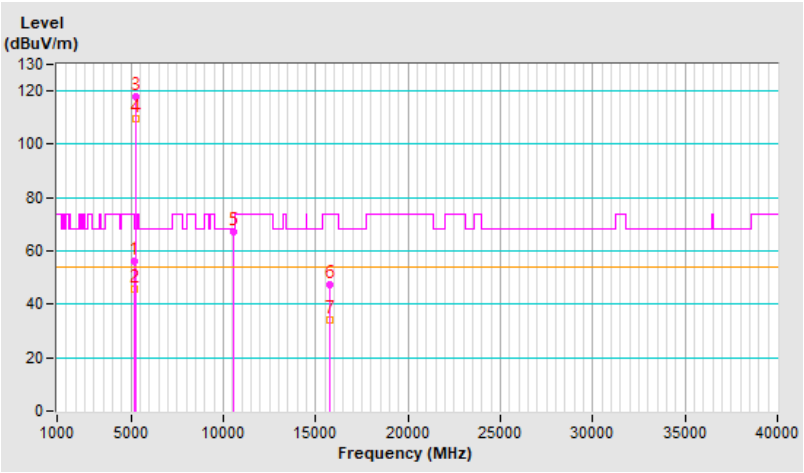


RF Mode	802.11ax (HE20)	Channel	CH 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	56.4 PK	74.0	-17.6	1.50 H	55	53.0	3.4
2	5150.00	45.7 AV	54.0	-8.3	1.50 H	55	42.3	3.4
3	*5260.00	117.8 PK			1.49 H	60	115.2	2.6
4	*5260.00	109.8 AV			1.49 H	60	107.2	2.6
5	#10520.00	67.4 PK	68.2	-0.8	1.68 H	345	55.6	11.8
6	15780.00	47.5 PK	74.0	-26.5	2.51 H	79	35.2	12.3
7	15780.00	34.0 AV	54.0	-20.0	2.51 H	79	21.7	12.3

Remarks:

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

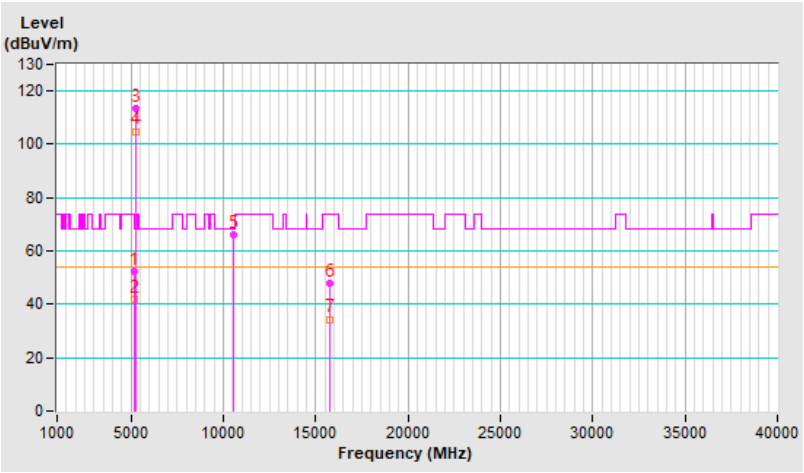


RF Mode	802.11ax (HE20)	Channel	CH 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	52.5 PK	74.0	-21.5	3.90 V	360	49.1	3.4
2	5150.00	41.8 AV	54.0	-12.2	3.90 V	360	38.4	3.4
3	*5260.00	113.6 PK			3.90 V	360	111.0	2.6
4	*5260.00	104.9 AV			3.90 V	360	102.3	2.6
5	#10520.00	66.2 PK	68.2	-2.0	3.99 V	358	54.4	11.8
6	15780.00	47.9 PK	74.0	-26.1	1.36 V	318	35.6	12.3
7	15780.00	34.4 AV	54.0	-19.6	1.36 V	318	22.1	12.3

Remarks:

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

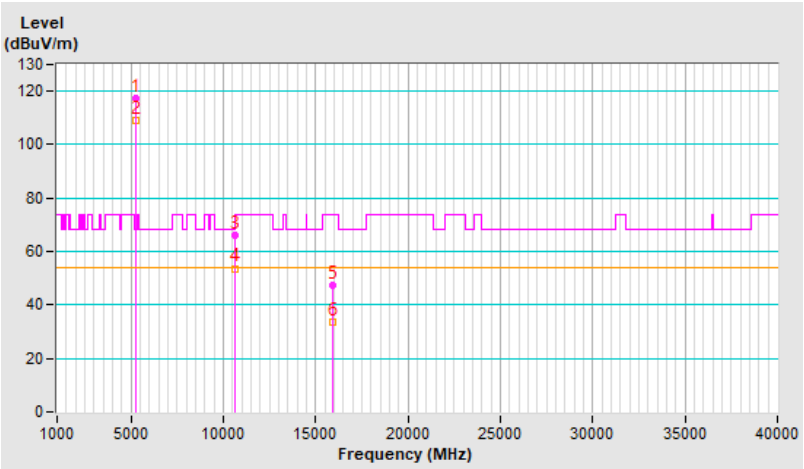


RF Mode	802.11ax (HE20)	Channel	CH 60：5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	117.3 PK			1.50 H	50	114.8	2.5
2	*5300.00	109.3 AV			1.50 H	50	106.8	2.5
3	10600.00	66.3 PK	74.0	-7.7	1.70 H	360	54.1	12.2
4	10600.00	53.7 AV	54.0	-0.3	1.70 H	360	41.5	12.2
5	15900.00	47.2 PK	74.0	-26.8	2.58 H	83	34.6	12.6
6	15900.00	33.7 AV	54.0	-20.3	2.58 H	83	21.1	12.6

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.

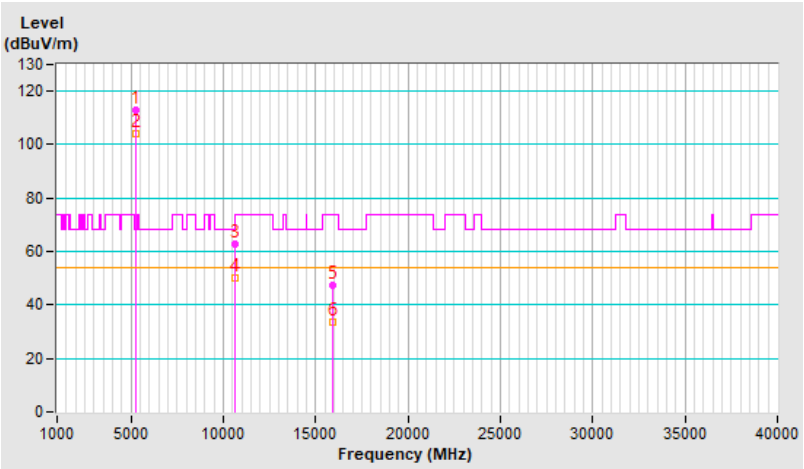


RF Mode	802.11ax (HE20)	Channel	CH 60：5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	112.9 PK			4.00 V	341	110.4	2.5
2	*5300.00	104.2 AV			4.00 V	341	101.7	2.5
3	10600.00	62.9 PK	74.0	-11.1	3.96 V	360	50.7	12.2
4	10600.00	50.2 AV	54.0	-3.8	3.96 V	360	38.0	12.2
5	15900.00	47.1 PK	74.0	-26.9	1.30 V	337	34.5	12.6
6	15900.00	33.5 AV	54.0	-20.5	1.30 V	337	20.9	12.6

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.

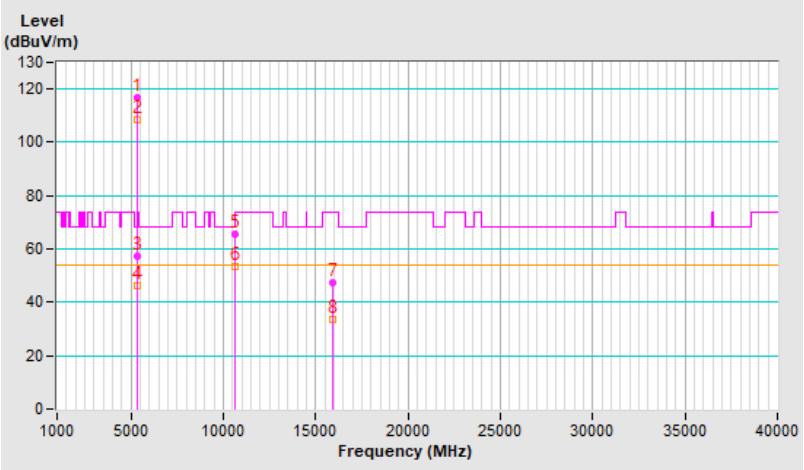


RF Mode	802.11ax (HE20)	Channel	CH 64：5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	116.9 PK			1.51 H	44	114.1	2.8
2	*5320.00	108.7 AV			1.51 H	44	105.9	2.8
3	5350.00	57.4 PK	74.0	-16.6	1.45 H	39	54.5	2.9
4	5350.00	46.1 AV	54.0	-7.9	1.45 H	39	43.2	2.9
5	10640.00	65.7 PK	74.0	-8.3	1.71 H	360	53.5	12.2
6	10640.00	53.3 AV	54.0	-0.7	1.71 H	360	41.1	12.2
7	15960.00	47.2 PK	74.0	-26.8	2.47 H	88	34.9	12.3
8	15960.00	33.6 AV	54.0	-20.4	2.47 H	88	21.3	12.3

Remarks:

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

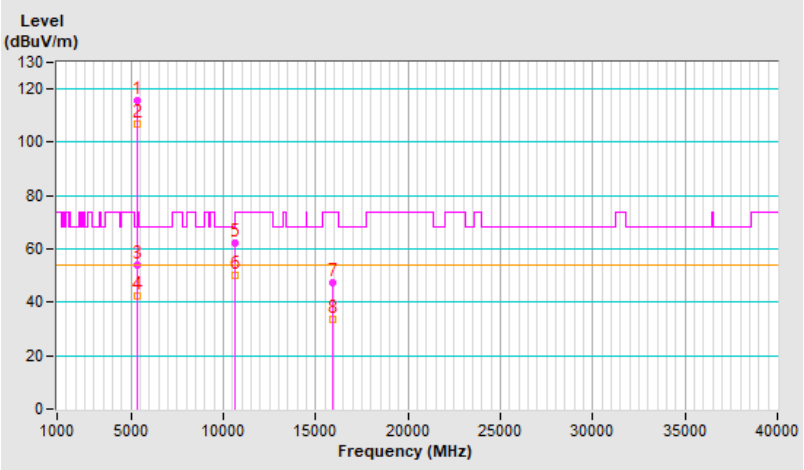


RF Mode	802.11ax (HE20)	Channel	CH 64：5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	115.5 PK			4.00 V	333	112.7	2.8
2	*5320.00	106.6 AV			4.00 V	333	103.8	2.8
3	5350.00	53.8 PK	74.0	-20.2	4.00 V	333	50.9	2.9
4	5350.00	42.2 AV	54.0	-11.8	4.00 V	333	39.3	2.9
5	10640.00	62.4 PK	74.0	-11.6	3.98 V	360	50.2	12.2
6	10640.00	50.1 AV	54.0	-3.9	3.98 V	360	37.9	12.2
7	15960.00	47.5 PK	74.0	-26.5	1.31 V	313	35.2	12.3
8	15960.00	33.7 AV	54.0	-20.3	1.31 V	313	21.4	12.3

Remarks:

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

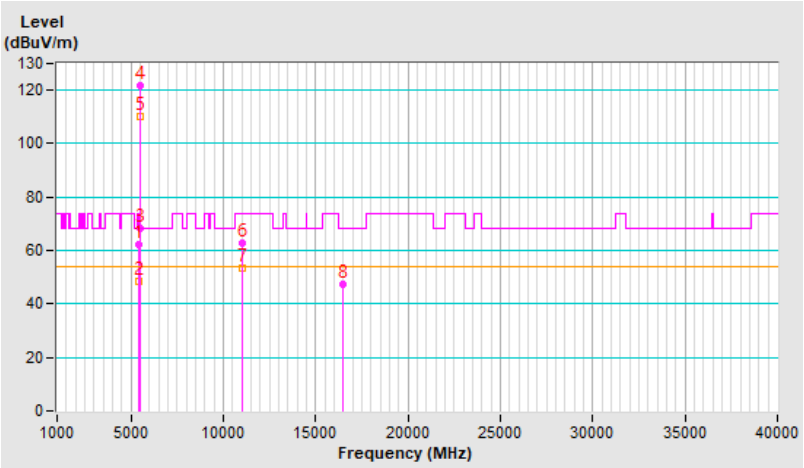


RF Mode	802.11ax (HE20)	Channel	CH 100：5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	62.0 PK	74.0	-12.0	3.07 H	60	58.8	3.2
2	5460.00	48.5 AV	54.0	-5.5	3.07 H	60	45.3	3.2
3	**#5470.00**	**68.1 PK**	**68.2**	**-0.1**	**3.07 H**	**60**	**64.9**	**3.2**
4	*5500.00	121.6 PK			3.07 H	60	118.4	3.2
5	*5500.00	110.1 AV			3.07 H	60	106.9	3.2
6	11000.00	62.9 PK	74.0	-11.1	2.10 H	79	50.1	12.8
7	11000.00	53.4 AV	54.0	-0.6	2.10 H	79	40.6	12.8
8	#16500.00	47.2 PK	68.2	-21.0	2.57 H	93	33.4	13.8

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.

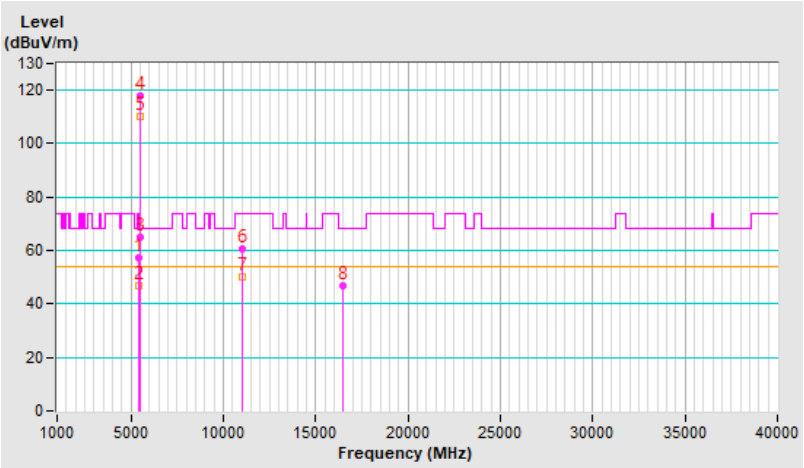


RF Mode	802.11ax (HE20)	Channel	CH 100：5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.2 PK	74.0	-16.8	3.93 V	360	54.0	3.2
2	5460.00	46.9 AV	54.0	-7.1	3.93 V	360	43.7	3.2
3	#5470.00	65.2 PK	68.2	-3.0	3.93 V	360	62.0	3.2
4	*5500.00	118.0 PK			3.93 V	360	114.8	3.2
5	*5500.00	110.4 AV			3.93 V	360	107.2	3.2
6	11000.00	60.4 PK	74.0	-13.6	3.95 V	360	47.6	12.8
7	11000.00	50.2 AV	54.0	-3.8	3.95 V	360	37.4	12.8
8	#16500.00	47.0 PK	68.2	-21.2	1.38 V	342	33.2	13.8

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.

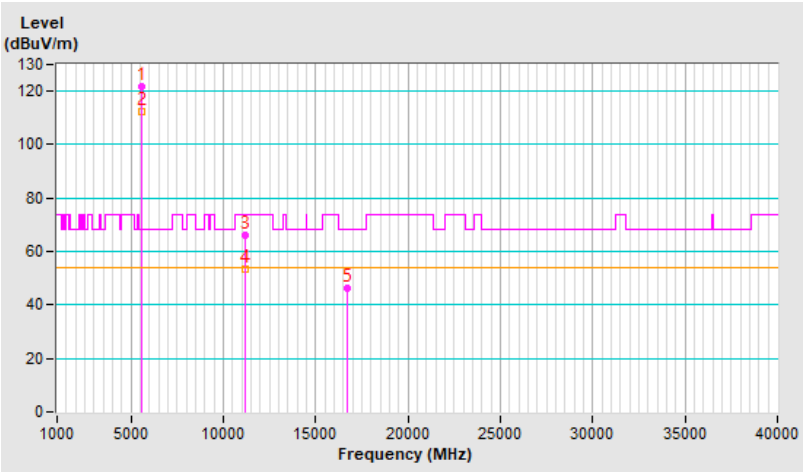


RF Mode	802.11ax (HE20)	Channel	CH 116：5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	121.6 PK			1.02 H	72	118.6	3.0
2	*5580.00	112.3 AV			1.02 H	72	109.3	3.0
3	11160.00	66.1 PK	74.0	-7.9	1.51 H	69	53.9	12.2
4	11160.00	53.4 AV	54.0	-0.6	1.51 H	69	41.2	12.2
5	#16740.00	46.3 PK	68.2	-21.9	2.52 H	66	31.1	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.

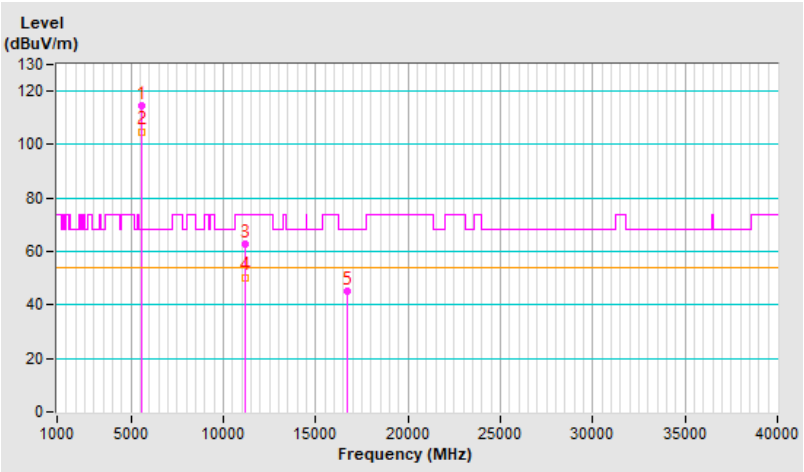


RF Mode	802.11ax (HE20)	Channel	CH 116：5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	114.5 PK			3.90 V	299	111.5	3.0
2	*5580.00	104.9 AV			3.90 V	299	101.9	3.0
3	11160.00	62.6 PK	74.0	-11.4	4.00 V	360	50.4	12.2
4	11160.00	50.4 AV	54.0	-3.6	4.00 V	360	38.2	12.2
5	#16740.00	45.0 PK	68.2	-23.2	1.38 V	310	29.8	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.

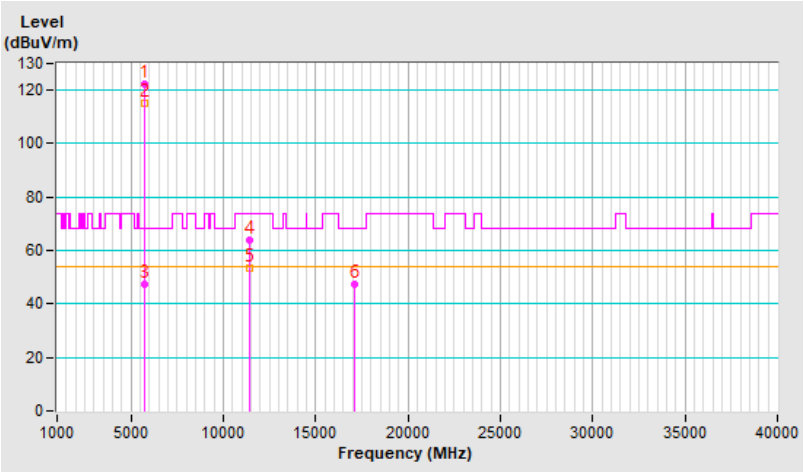


RF Mode	802.11ax (HE20)	Channel	CH 140：5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	122.5 PK			2.26 H	63	119.3	3.2
2	*5700.00	114.9 AV			2.26 H	63	111.7	3.2
3	#5725.00	47.1 PK	68.2	-21.1	2.26 H	63	43.7	3.4
4	11400.00	64.1 PK	74.0	-9.9	2.94 H	75	51.4	12.7
5	11400.00	53.5 AV	54.0	-0.5	2.94 H	75	40.8	12.7
6	#17100.00	47.2 PK	68.2	-21.0	2.45 H	71	30.1	17.1

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.

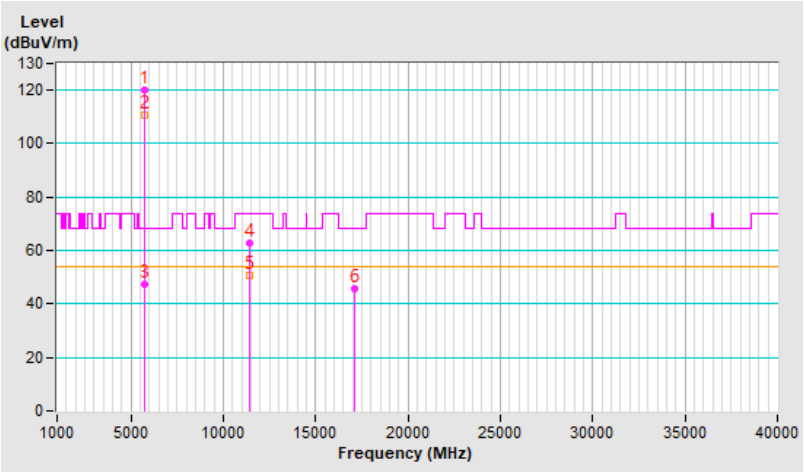


RF Mode	802.11ax (HE20)	Channel	CH 140：5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	120.1 PK			3.89 V	360	116.9	3.2
2	*5700.00	110.9 AV			3.89 V	360	107.7	3.2
3	#5725.00	47.3 PK	68.2	-20.9	3.94 V	343	43.9	3.4
4	11400.00	63.0 PK	74.0	-11.0	4.00 V	360	50.3	12.7
5	11400.00	50.5 AV	54.0	-3.5	4.00 V	360	37.8	12.7
6	#17100.00	45.5 PK	68.2	-22.7	1.44 V	318	28.4	17.1

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.

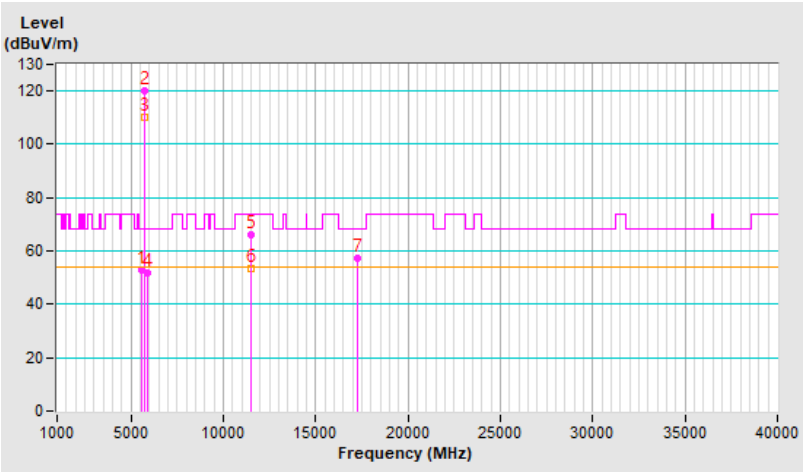


RF Mode	802.11ax (HE20)	Channel	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5601.70	53.0 PK	68.2	-15.2	1.60 H	41	50.0	3.0
2	*5745.00	120.2 PK			1.60 H	41	116.7	3.5
3	*5745.00	110.3 AV			1.60 H	41	106.8	3.5
4	#5931.60	51.7 PK	68.2	-16.5	1.60 H	41	48.1	3.6
5	11490.00	65.9 PK	74.0	-8.1	2.89 H	34	53.3	12.6
6	11490.00	53.4 AV	54.0	-0.6	2.89 H	34	40.8	12.6
7	#17235.00	57.1 PK	68.2	-11.1	2.46 H	306	39.8	17.3

Remarks:

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

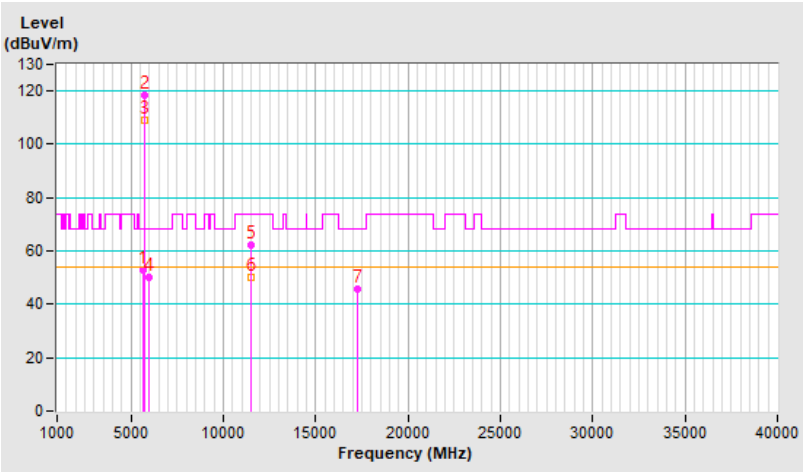


RF Mode	802.11ax (HE20)	Channel	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.90	52.7 PK	68.2	-15.5	3.91 V	357	49.7	3.0
2	*5745.00	118.5 PK			3.91 V	357	115.0	3.5
3	*5745.00	108.9 AV			3.91 V	357	105.4	3.5
4	#5937.30	50.1 PK	68.2	-18.1	3.91 V	357	46.5	3.6
5	11490.00	62.2 PK	74.0	-11.8	4.00 V	360	49.6	12.6
6	11490.00	50.1 AV	54.0	-3.9	4.00 V	360	37.5	12.6
7	#17235.00	45.6 PK	68.2	-22.6	1.37 V	305	28.3	17.3

Remarks:

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

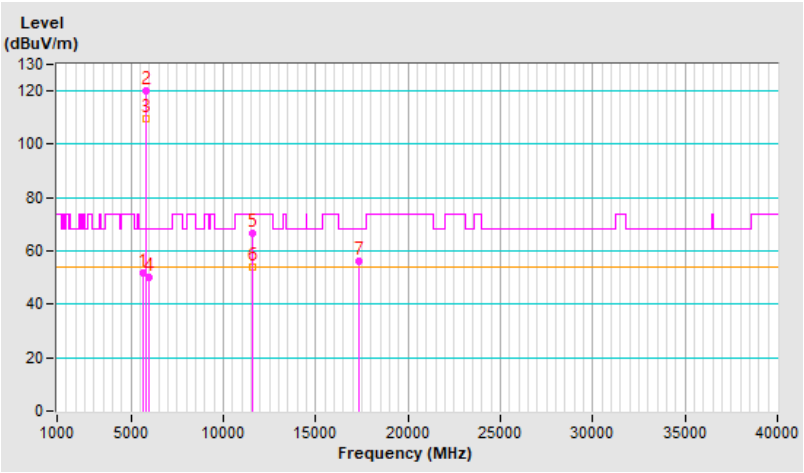


RF Mode	802.11ax (HE20)	Channel	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	#5627.86	51.6 PK	68.2	-16.6	1.58 H	40	48.6	3.0
2	*5785.00	120.1 PK			1.58 H	40	116.6	3.5
3	*5785.00	109.5 AV			1.58 H	40	106.0	3.5
4	#5960.20	49.9 PK	68.2	-18.3	1.58 H	40	46.4	3.5
5	11570.00	66.4 PK	74.0	-7.6	2.92 H	31	53.9	12.5
6	11570.00	53.8 AV	54.0	-0.2	2.92 H	31	41.3	12.5
7	#17355.00	56.2 PK	68.2	-12.0	2.46 H	284	38.6	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.

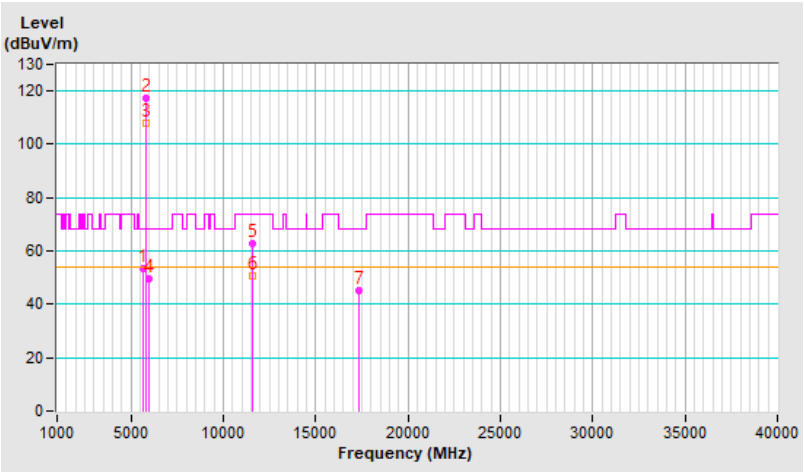


RF Mode	802.11ax (HE20)	Channel	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	#5640.30	53.3 PK	68.2	-14.9	3.94 V	360	50.2	3.1
2	*5785.00	117.2 PK			3.94 V	360	113.7	3.5
3	*5785.00	107.8 AV			3.94 V	360	104.3	3.5
4	#5940.10	49.7 PK	68.2	-18.5	3.94 V	360	46.1	3.6
5	11570.00	62.8 PK	74.0	-11.2	4.00 V	360	50.3	12.5
6	11570.00	50.5 AV	54.0	-3.5	4.00 V	360	38.0	12.5
7	#17355.00	45.0 PK	68.2	-23.2	1.40 V	305	27.4	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.

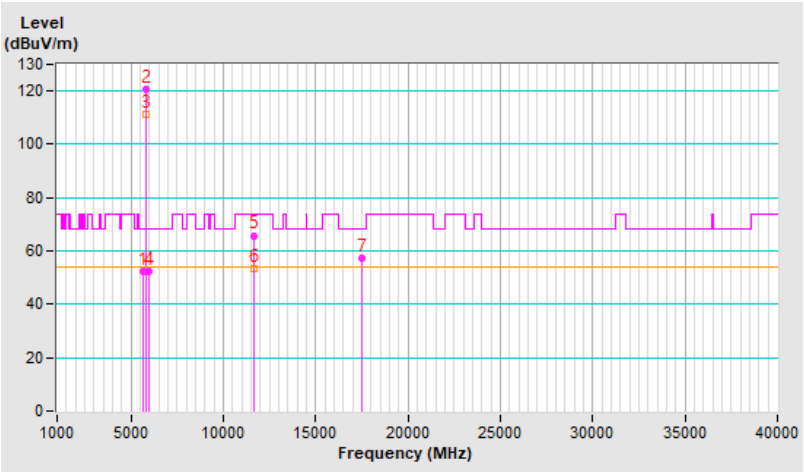


RF Mode	802.11ax (HE20)	Channel	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	#5626.40	52.5 PK	68.2	-15.7	1.61 H	46	49.5	3.0
2	*5825.00	120.5 PK			1.61 H	46	116.8	3.7
3	*5825.00	111.3 AV			1.61 H	46	107.6	3.7
4	#5970.70	52.1 PK	68.2	-16.1	1.61 H	46	48.5	3.6
5	11650.00	65.8 PK	74.0	-8.2	2.87 H	43	53.7	12.1
6	11650.00	53.4 AV	54.0	-0.6	2.87 H	43	41.3	12.1
7	#17475.00	57.2 PK	68.2	-11.0	2.42 H	287	39.0	18.2

Remarks:

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

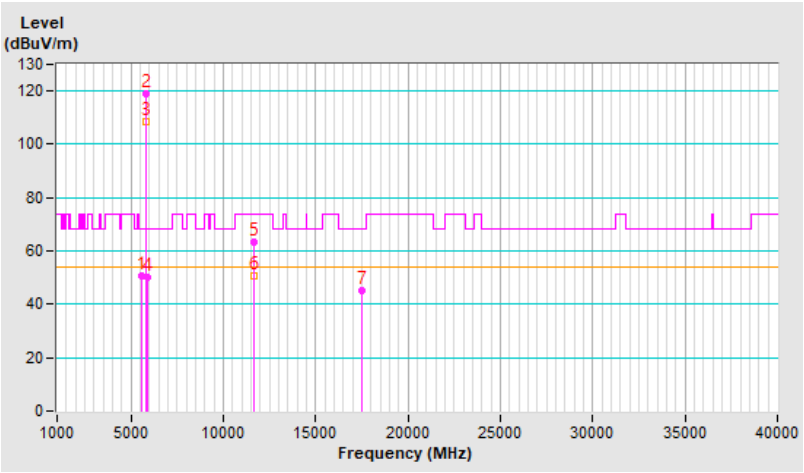


RF Mode	802.11ax (HE20)	Channel	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5618.30	50.7 PK	68.2	-17.5	4.00 V	360	47.7	3.0
2	*5825.00	118.8 PK			4.00 V	360	115.1	3.7
3	*5825.00	108.7 AV			4.00 V	360	105.0	3.7
4	#5930.70	50.2 PK	68.2	-18.0	4.00 V	360	46.6	3.6
5	11650.00	63.3 PK	74.0	-10.7	3.97 V	354	51.2	12.1
6	11650.00	50.8 AV	54.0	-3.2	3.97 V	354	38.7	12.1
7	#17475.00	45.2 PK	68.2	-23.0	1.37 V	321	27.0	18.2

Remarks:

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

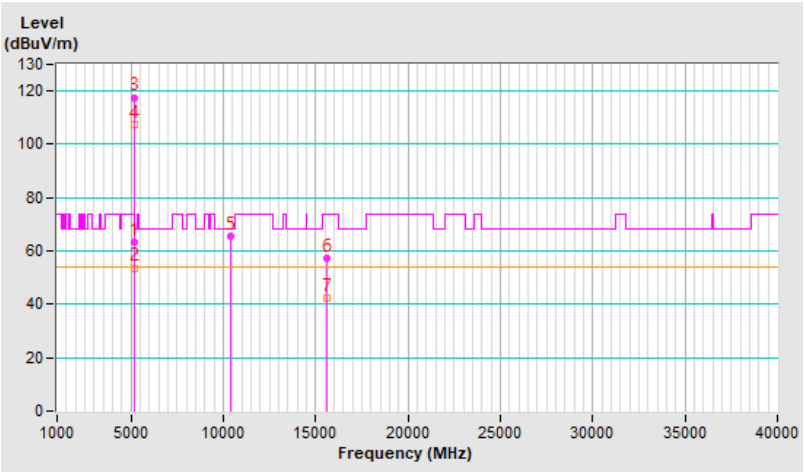


RF Mode	802.11ax (HE40)	Channel	CH 38：5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.3 PK	74.0	-10.7	2.60 H	57	59.9	3.4
2	5150.00	53.7 AV	54.0	-0.3	2.60 H	57	50.3	3.4
3	*5190.00	117.6 PK			2.60 H	57	114.6	3.0
4	*5190.00	107.2 AV			2.60 H	57	104.2	3.0
5	#10380.00	65.5 PK	68.2	-2.7	2.82 H	35	53.9	11.6
6	15570.00	57.5 PK	74.0	-16.5	2.44 H	278	45.6	11.9
7	15570.00	42.3 AV	54.0	-11.7	2.44 H	278	30.4	11.9

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.

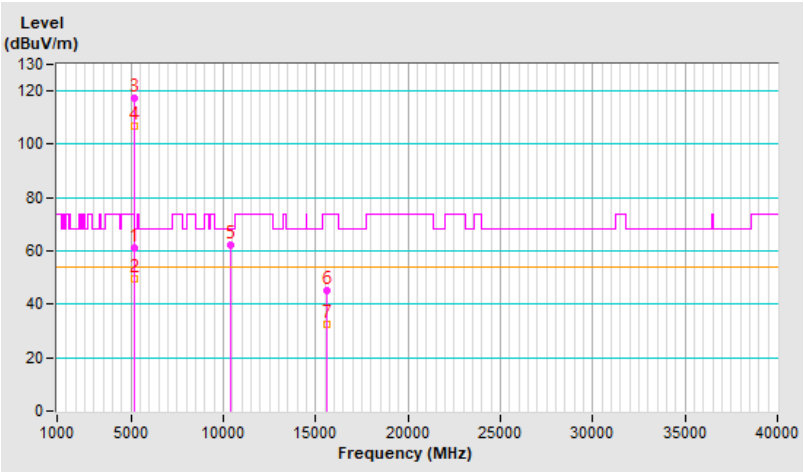


RF Mode	802.11ax (HE40)	Channel	CH 38：5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.1 PK	74.0	-12.9	4.00 V	336	57.7	3.4
2	5150.00	49.4 AV	54.0	-4.6	4.00 V	336	46.0	3.4
3	*5190.00	117.3 PK			4.00 V	336	114.3	3.0
4	*5190.00	106.7 AV			4.00 V	336	103.7	3.0
5	#10380.00	62.0 PK	68.2	-6.2	4.00 V	360	50.4	11.6
6	15570.00	44.9 PK	74.0	-29.1	1.44 V	309	33.0	11.9
7	15570.00	32.6 AV	54.0	-21.4	1.44 V	309	20.7	11.9

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.

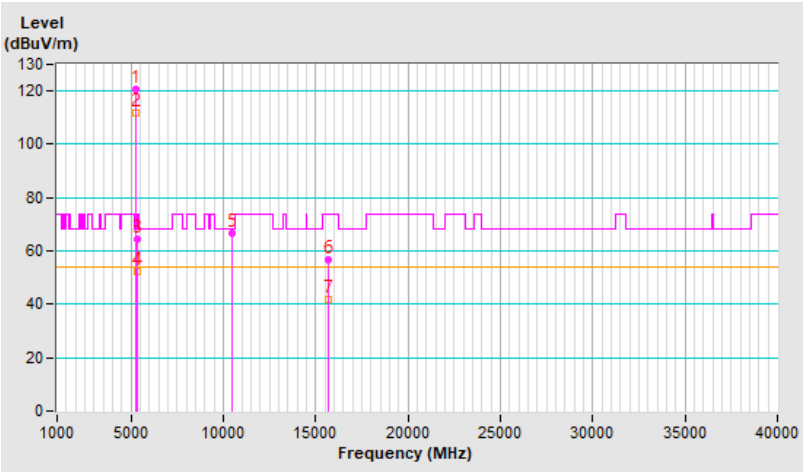


RF Mode	802.11ax (HE40)	Channel	CH 46：5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	120.4 PK			2.71 H	52	117.6	2.8
2	*5230.00	111.8 AV			2.71 H	52	109.0	2.8
3	5350.00	64.2 PK	74.0	-9.8	2.71 H	52	61.3	2.9
4	5350.00	52.4 AV	54.0	-1.6	2.71 H	52	49.5	2.9
5	#10460.00	66.8 PK	68.2	-1.4	1.80 H	5	55.2	11.6
6	15690.00	56.5 PK	74.0	-17.5	2.41 H	318	44.6	11.9
7	15690.00	41.9 AV	54.0	-12.1	2.41 H	318	30.0	11.9

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.

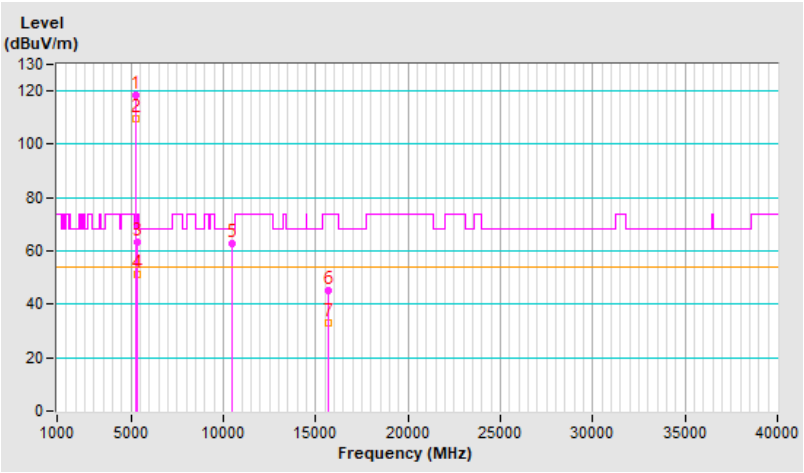


RF Mode	802.11ax (HE40)	Channel	CH 46：5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	118.3 PK			3.96 V	354	115.5	2.8
2	*5230.00	109.7 AV			3.96 V	354	106.9	2.8
3	5350.00	63.2 PK	74.0	-10.8	3.96 V	354	60.3	2.9
4	5350.00	51.0 AV	54.0	-3.0	3.96 V	354	48.1	2.9
5	#10460.00	62.7 PK	68.2	-5.5	3.97 V	350	51.1	11.6
6	15690.00	45.0 PK	74.0	-29.0	1.33 V	296	33.1	11.9
7	15690.00	32.9 AV	54.0	-21.1	1.33 V	296	21.0	11.9

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.

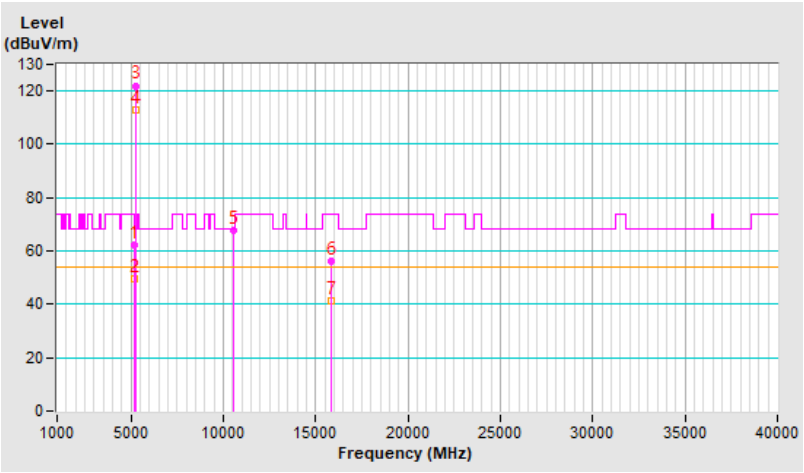


RF Mode	802.11ax (HE40)	Channel	CH 54：5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.0 PK	74.0	-12.0	1.90 H	57	58.6	3.4
2	5150.00	49.8 AV	54.0	-4.2	1.90 H	57	46.4	3.4
3	*5270.00	122.0 PK			1.92 H	51	119.4	2.6
4	*5270.00	112.9 AV			1.92 H	51	110.3	2.6
5	#10540.00	67.9 PK	68.2	-0.3	1.00 H	91	56.0	11.9
6	15810.00	56.1 PK	74.0	-17.9	2.38 H	313	43.6	12.5
7	15810.00	41.5 AV	54.0	-12.5	2.38 H	313	29.0	12.5

Remarks:

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

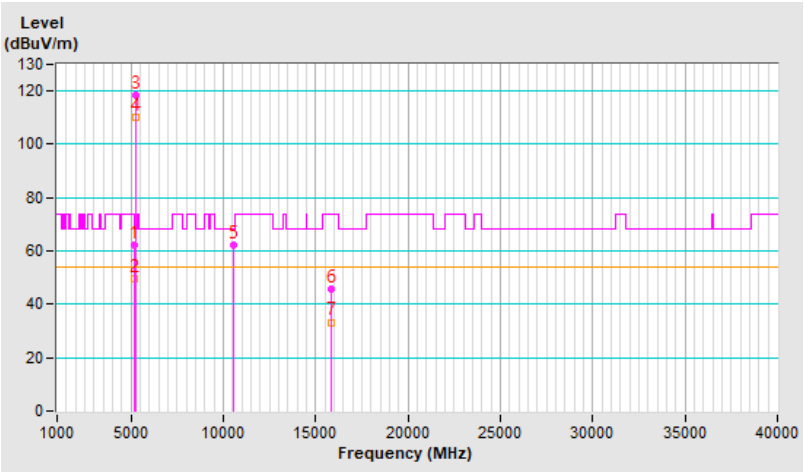


RF Mode	802.11ax (HE40)	Channel	CH 54：5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.1 PK	74.0	-11.9	1.90 V	57	58.7	3.4
2	5150.00	49.4 AV	54.0	-4.6	1.90 V	57	46.0	3.4
3	*5270.00	118.3 PK			3.94 V	360	115.7	2.6
4	*5270.00	109.9 AV			3.94 V	360	107.3	2.6
5	#10540.00	62.2 PK	68.2	-6.0	4.00 V	358	50.3	11.9
6	15810.00	45.6 PK	74.0	-28.4	1.36 V	323	33.1	12.5
7	15810.00	33.3 AV	54.0	-20.7	1.36 V	323	20.8	12.5

Remarks:

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

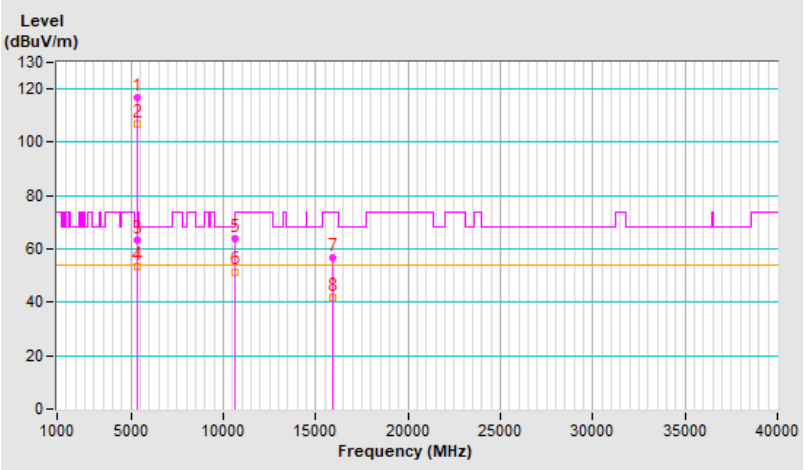


RF Mode	802.11ax (HE40)	Channel	CH 62：5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	116.6 PK			1.63 H	60	114.0	2.6
2	*5310.00	107.0 AV			1.63 H	60	104.4	2.6
3	5350.00	63.1 PK	74.0	-10.9	1.63 H	60	60.2	2.9
4	5350.00	53.4 AV	54.0	-0.6	1.63 H	60	50.5	2.9
5	10620.00	64.1 PK	74.0	-9.9	1.04 H	73	51.9	12.2
6	10620.00	51.5 AV	54.0	-2.5	1.04 H	73	39.3	12.2
7	15930.00	56.6 PK	74.0	-17.4	2.43 H	331	44.2	12.4
8	15930.00	41.7 AV	54.0	-12.3	2.43 H	331	29.3	12.4

Remarks:

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

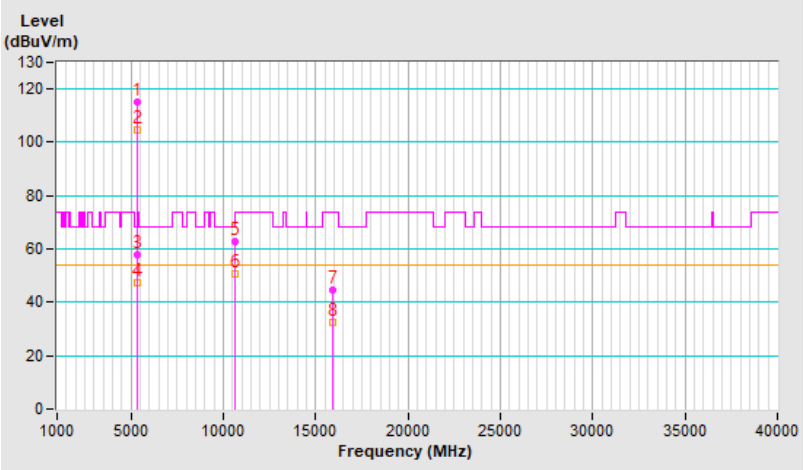


RF Mode	802.11ax (HE40)	Channel	CH 62：5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	114.9 PK			4.00 V	360	112.3	2.6
2	*5310.00	104.4 AV			4.00 V	360	101.8	2.6
3	5350.00	57.9 PK	74.0	-16.1	4.00 V	360	55.0	2.9
4	5350.00	47.1 AV	54.0	-6.9	4.00 V	360	44.2	2.9
5	10620.00	62.7 PK	74.0	-11.3	3.97 V	360	50.5	12.2
6	10620.00	50.7 AV	54.0	-3.3	3.97 V	360	38.5	12.2
7	15930.00	44.6 PK	74.0	-29.4	1.37 V	307	32.2	12.4
8	15930.00	32.5 AV	54.0	-21.5	1.37 V	307	20.1	12.4

Remarks:

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

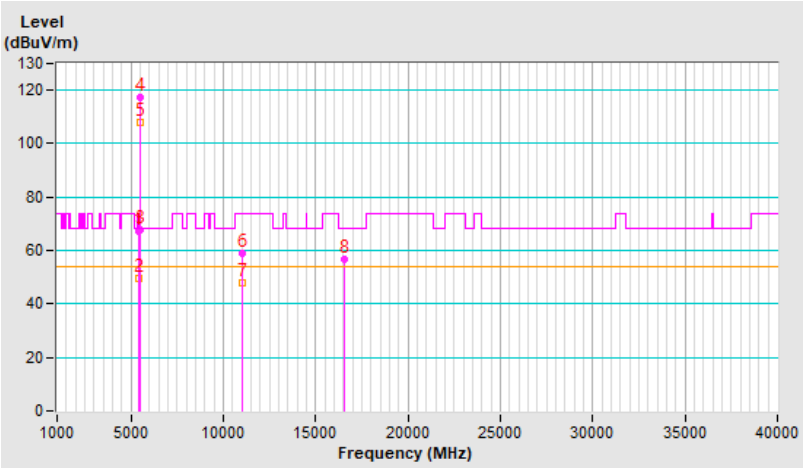


RF Mode	802.11ax (HE40)	Channel	CH 102：5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	67.2 PK	74.0	-6.8	1.15 H	53	64.0	3.2
2	5460.00	49.5 AV	54.0	-4.5	1.15 H	53	46.3	3.2
3	#5470.00	67.9 PK	68.2	-0.3	1.15 H	53	64.7	3.2
4	*5510.00	117.5 PK			1.15 H	53	114.4	3.1
5	*5510.00	108.1 AV			1.15 H	53	105.0	3.1
6	11020.00	58.8 PK	74.0	-15.2	2.93 H	61	46.1	12.7
7	11020.00	47.8 AV	54.0	-6.2	2.93 H	61	35.1	12.7
8	#16530.00	56.8 PK	68.2	-11.4	2.48 H	295	42.9	13.9

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.

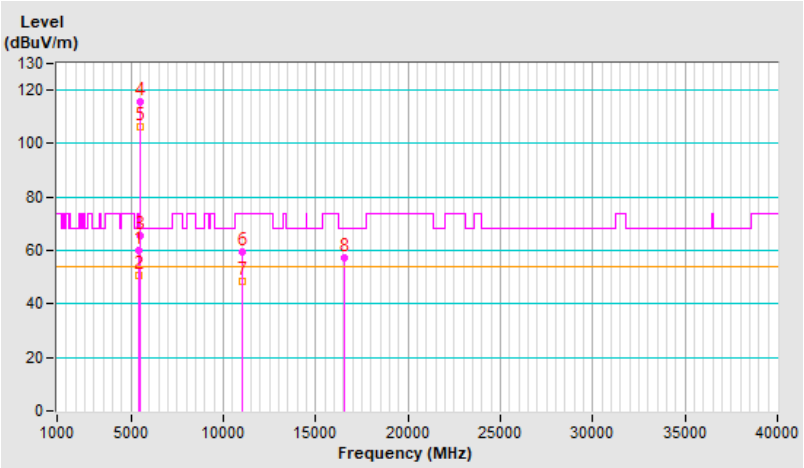


RF Mode	802.11ax (HE40)	Channel	CH 102：5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	60.0 PK	74.0	-14.0	4.00 V	359	56.8	3.2
2	5460.00	50.5 AV	54.0	-3.5	4.00 V	359	47.3	3.2
3	#5470.00	65.6 PK	68.2	-2.6	4.00 V	359	62.4	3.2
4	*5510.00	115.5 PK			4.00 V	359	112.4	3.1
5	*5510.00	106.4 AV			4.00 V	359	103.3	3.1
6	11020.00	59.3 PK	74.0	-14.7	3.99 V	360	46.6	12.7
7	11020.00	48.2 AV	54.0	-5.8	3.99 V	360	35.5	12.7
8	#16530.00	57.2 PK	68.2	-11.0	1.36 V	326	43.3	13.9

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.

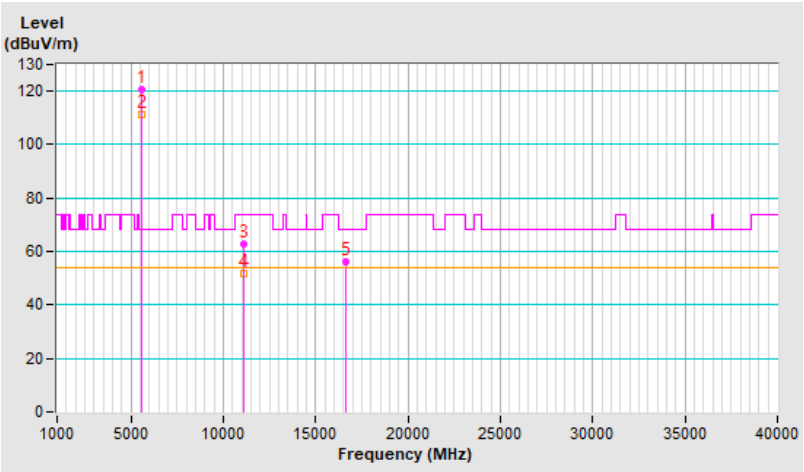


RF Mode	802.11ax (HE40)	Channel	CH 110：5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	120.4 PK			1.46 H	38	117.4	3.0
2	*5550.00	111.5 AV			1.46 H	38	108.5	3.0
3	11100.00	62.8 PK	74.0	-11.2	1.63 H	64	50.3	12.5
4	11100.00	51.9 AV	54.0	-2.1	1.63 H	64	39.4	12.5
5	#16650.00	56.3 PK	68.2	-11.9	2.43 H	327	41.7	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.

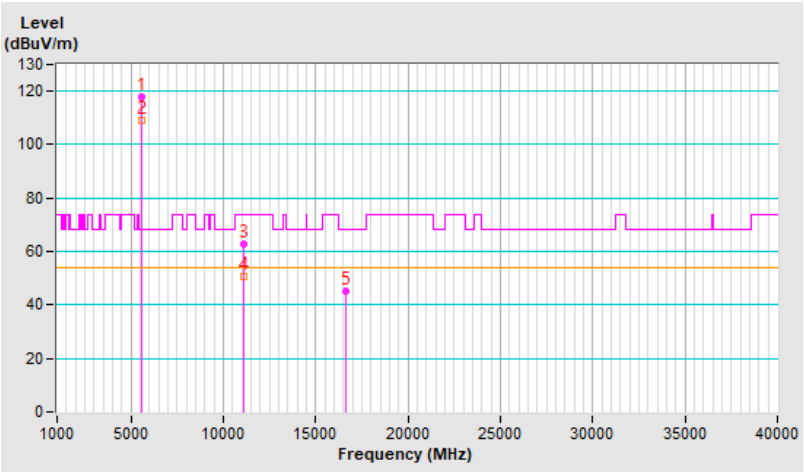


RF Mode	802.11ax (HE40)	Channel	CH 110：5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	117.8 PK			3.76 V	360	114.8	3.0
2	*5550.00	108.9 AV			3.76 V	360	105.9	3.0
3	11100.00	62.8 PK	74.0	-11.2	4.00 V	360	50.3	12.5
4	11100.00	50.6 AV	54.0	-3.4	4.00 V	360	38.1	12.5
5	#16650.00	45.1 PK	68.2	-23.1	1.33 V	311	30.5	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.

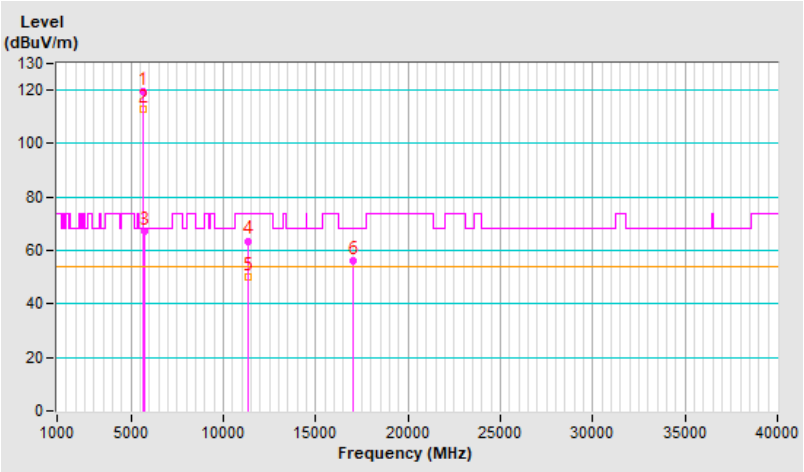


RF Mode	802.11ax (HE40)	Channel	CH 134：5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	119.3 PK			1.50 H	35	116.3	3.0
2	*5670.00	112.7 AV			1.50 H	35	109.7	3.0
3	#5725.00	67.0 PK	68.2	-1.2	1.50 H	35	63.6	3.4
4	11340.00	63.6 PK	74.0	-10.4	2.21 H	57	51.1	12.5
5	11340.00	50.2 AV	54.0	-3.8	2.21 H	57	37.7	12.5
6	#17010.00	56.2 PK	68.2	-12.0	2.43 H	335	39.3	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.

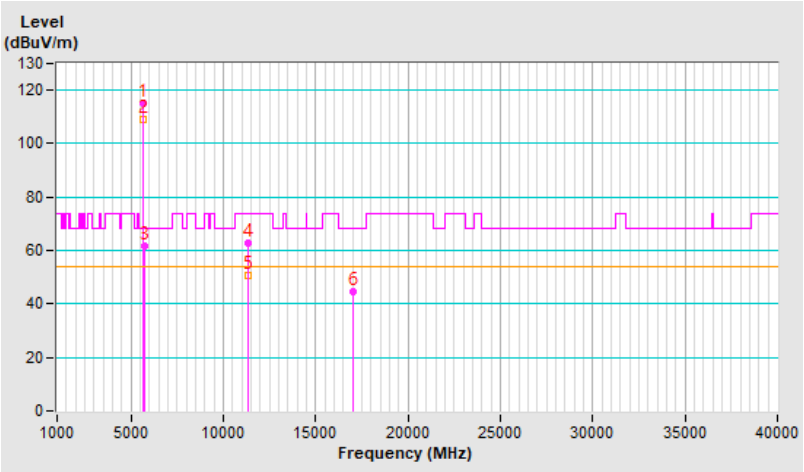


RF Mode	802.11ax (HE40)	Channel	CH 134：5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	115.0 PK			1.40 V	26	112.0	3.0
2	*5670.00	109.0 AV			1.40 V	26	106.0	3.0
3	#5725.00	61.7 PK	68.2	-6.5	1.40 V	26	58.3	3.4
4	11340.00	62.7 PK	74.0	-11.3	3.97 V	358	50.2	12.5
5	11340.00	50.5 AV	54.0	-3.5	3.97 V	358	38.0	12.5
6	#17010.00	44.8 PK	68.2	-23.4	1.36 V	311	27.9	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.

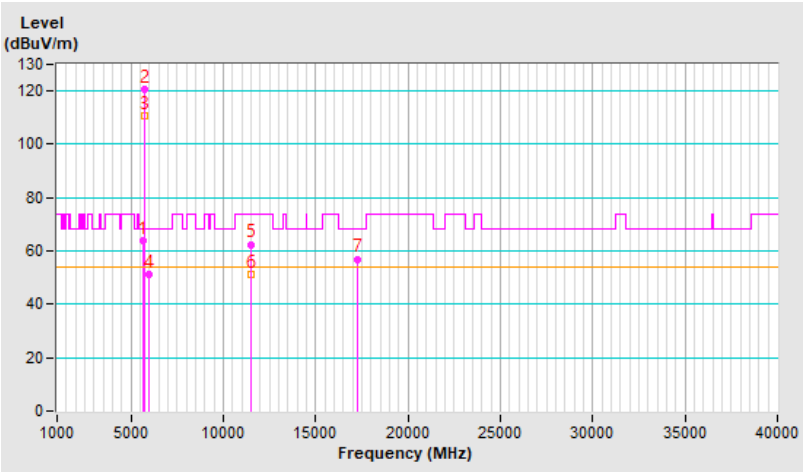


RF Mode	802.11ax (HE40)	Channel	CH 151：5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	#5643.23	63.9 PK	68.2	-4.3	1.50 H	44	60.9	3.0
2	*5755.00	120.4 PK			1.50 H	44	116.9	3.5
3	*5755.00	110.9 AV			1.50 H	44	107.4	3.5
4	#5944.90	51.2 PK	68.2	-17.0	1.50 H	44	47.7	3.5
5	11510.00	62.5 PK	74.0	-11.5	2.55 H	72	49.9	12.6
6	11510.00	51.0 AV	54.0	-3.0	2.55 H	72	38.4	12.6
7	#17265.00	57.0 PK	68.2	-11.2	2.48 H	350	39.6	17.4

Remarks:

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

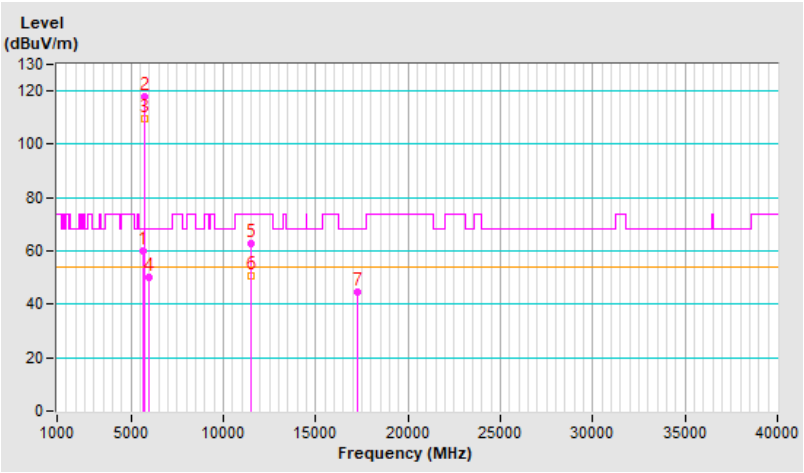


RF Mode	802.11ax (HE40)	Channel	CH 151：5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	#5643.60	60.2 PK	68.2	-8.0	3.96 V	357	57.2	3.0
2	*5755.00	117.7 PK			3.96 V	357	114.2	3.5
3	*5755.00	109.4 AV			3.96 V	357	105.9	3.5
4	#5936.00	50.1 PK	68.2	-18.1	3.96 V	357	46.5	3.6
5	11510.00	63.0 PK	74.0	-11.0	3.98 V	360	50.4	12.6
6	11510.00	50.7 AV	54.0	-3.3	3.98 V	360	38.1	12.6
7	#17265.00	44.7 PK	68.2	-23.5	1.38 V	311	27.3	17.4

Remarks:

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

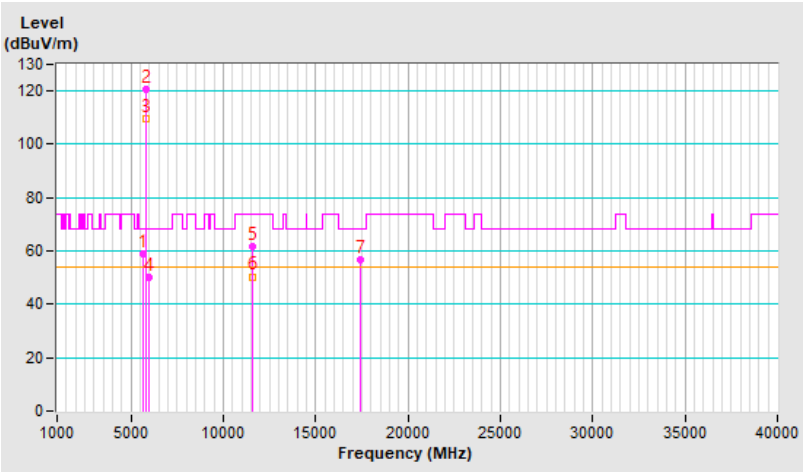


RF Mode	802.11ax (HE40)	Channel	CH 159：5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	#5644.20	58.9 PK	68.2	-9.3	1.48 H	39	55.9	3.0
2	*5795.00	120.8 PK			1.48 H	39	117.2	3.6
3	*5795.00	109.8 AV			1.48 H	39	106.2	3.6
4	#5944.70	50.3 PK	68.2	-17.9	1.48 H	39	46.8	3.5
5	11590.00	61.7 PK	74.0	-12.3	1.98 H	357	49.3	12.4
6	11590.00	50.4 AV	54.0	-3.6	1.98 H	357	38.0	12.4
7	#17385.00	56.5 PK	68.2	-11.7	2.53 H	307	38.9	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.

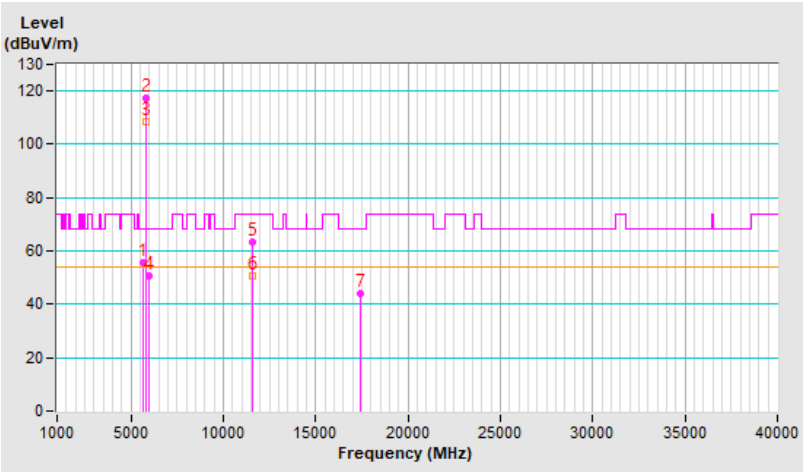


RF Mode	802.11ax (HE40)	Channel	CH 159：5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	#5642.60	55.4 PK	68.2	-12.8	3.98 V	360	52.3	3.1
2	*5795.00	117.5 PK			3.98 V	360	113.9	3.6
3	*5795.00	108.5 AV			3.98 V	360	104.9	3.6
4	#5978.60	50.8 PK	68.2	-17.4	3.98 V	360	47.2	3.6
5	11590.00	63.2 PK	74.0	-10.8	3.99 V	360	50.8	12.4
6	11590.00	50.6 AV	54.0	-3.4	3.99 V	360	38.2	12.4
7	#17385.00	44.3 PK	68.2	-23.9	1.32 V	317	26.7	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.

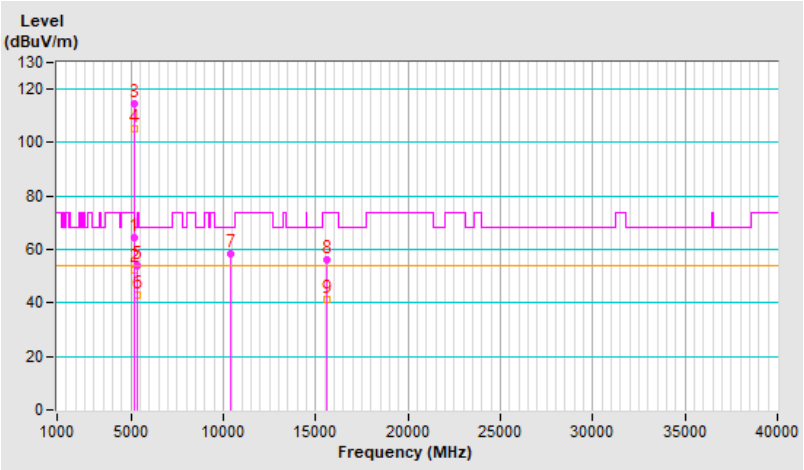


RF Mode	802.11ax (HE80)	Channel	CH 42：5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.3 PK	74.0	-9.7	2.56 H	58	60.9	3.4
2	5150.00	52.6 AV	54.0	-1.4	2.56 H	58	49.2	3.4
3	*5210.00	114.7 PK			2.56 H	58	111.8	2.9
4	*5210.00	105.4 AV			2.56 H	58	102.5	2.9
5	5350.00	54.1 PK	74.0	-19.9	2.56 H	58	51.2	2.9
6	5350.00	42.9 AV	54.0	-11.1	2.56 H	58	40.0	2.9
7	#10420.00	58.3 PK	68.2	-9.9	2.95 H	56	46.6	11.7
8	15630.00	56.0 PK	74.0	-18.0	2.51 H	321	44.2	11.8
9	15630.00	41.5 AV	54.0	-12.5	2.51 H	321	29.7	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.

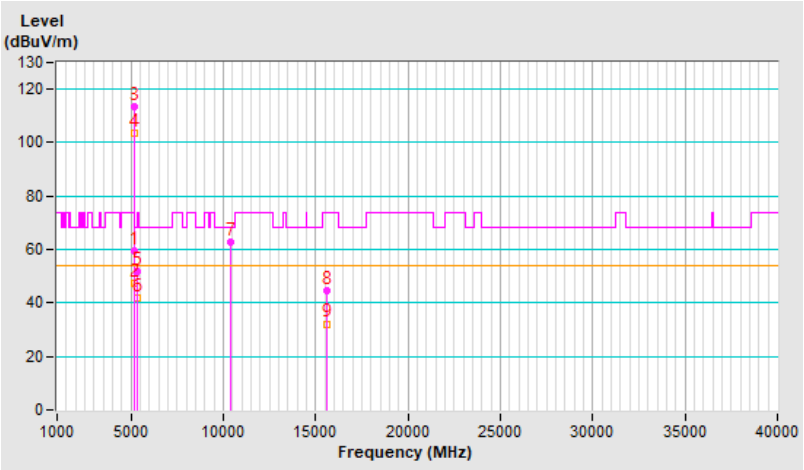


RF Mode	802.11ax (HE80)	Channel	CH 42：5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	59.7 PK	74.0	-14.3	4.00 V	335	56.3	3.4
2	5150.00	47.2 AV	54.0	-6.8	4.00 V	335	43.8	3.4
3	*5210.00	113.5 PK			4.00 V	335	110.6	2.9
4	*5210.00	103.4 AV			4.00 V	335	100.5	2.9
5	5350.00	51.8 PK	74.0	-22.2	4.00 V	335	48.9	2.9
6	5350.00	41.7 AV	54.0	-12.3	4.00 V	335	38.8	2.9
7	#10420.00	63.0 PK	68.2	-5.2	3.94 V	360	51.3	11.7
8	15630.00	44.6 PK	74.0	-29.4	1.41 V	317	32.8	11.8
9	15630.00	32.2 AV	54.0	-21.8	1.41 V	317	20.4	11.8

Remarks:

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

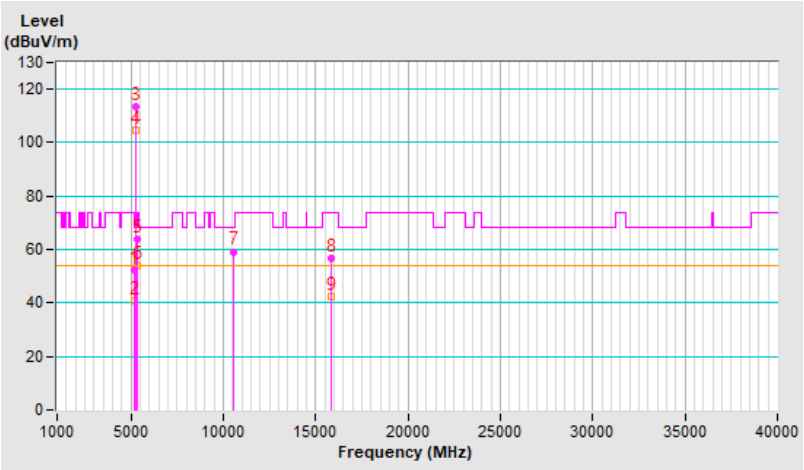


RF Mode	802.11ax (HE80)	Channel	CH 58：5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	52.2 PK	74.0	-21.8	1.68 H	54	48.8	3.4
2	5150.00	40.7 AV	54.0	-13.3	1.68 H	54	37.3	3.4
3	*5290.00	113.6 PK			1.68 H	54	111.1	2.5
4	*5290.00	104.5 AV			1.68 H	54	102.0	2.5
5	5350.00	63.7 PK	74.0	-10.3	1.68 H	54	60.8	2.9
6	5350.00	53.8 AV	54.0	-0.2	1.68 H	54	50.9	2.9
7	#10580.00	59.2 PK	68.2	-9.0	2.82 H	49	47.2	12.0
8	15870.00	56.6 PK	74.0	-17.4	2.52 H	335	44.1	12.5
9	15870.00	42.2 AV	54.0	-11.8	2.52 H	335	29.7	12.5

Remarks:

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

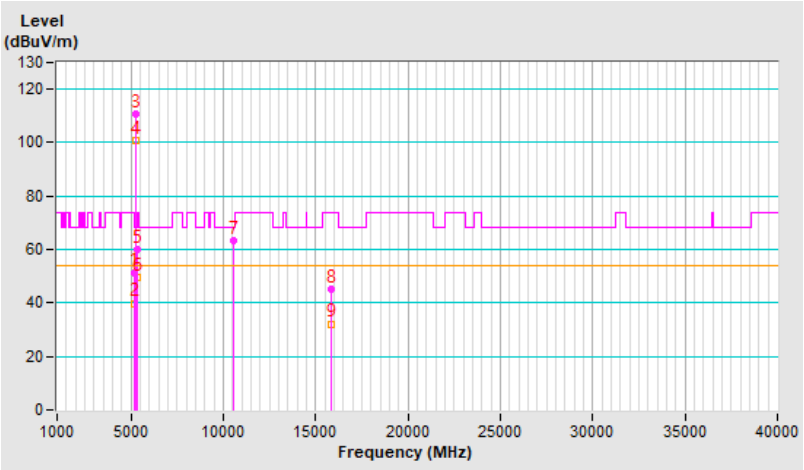


RF Mode	802.11ax (HE80)	Channel	CH 58：5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	51.5 PK	74.0	-22.5	3.90 V	339	48.1	3.4
2	5150.00	39.9 AV	54.0	-14.1	3.90 V	339	36.5	3.4
3	*5290.00	110.7 PK			3.90 V	339	108.2	2.5
4	*5290.00	101.0 AV			3.90 V	339	98.5	2.5
5	5350.00	59.8 PK	74.0	-14.2	3.90 V	339	56.9	2.9
6	5350.00	49.4 AV	54.0	-4.6	3.90 V	339	46.5	2.9
7	#10580.00	63.2 PK	68.2	-5.0	3.97 V	360	51.2	12.0
8	15870.00	44.9 PK	74.0	-29.1	1.37 V	319	32.4	12.5
9	15870.00	32.2 AV	54.0	-21.8	1.37 V	319	19.7	12.5

Remarks:

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

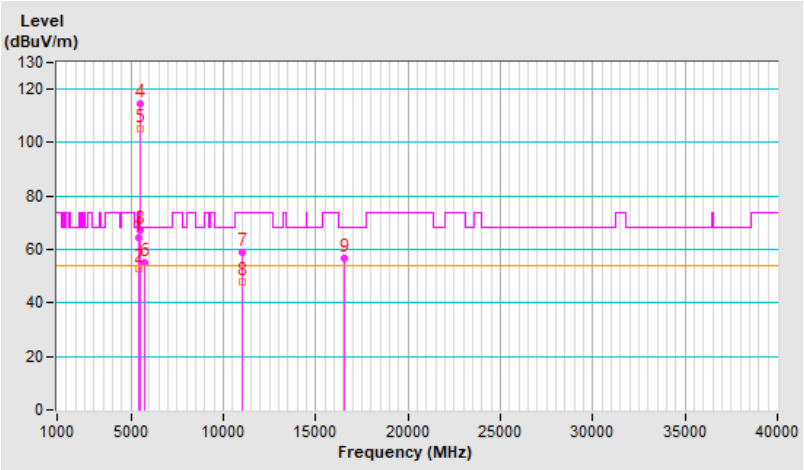


RF Mode	802.11ax (HE80)	Channel	CH 106：5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.4 PK	74.0	-9.6	1.03 H	55	61.2	3.2
2	5460.00	52.7 AV	54.0	-1.3	1.03 H	55	49.5	3.2
3	#5470.00	67.0 PK	68.2	-1.2	1.03 H	55	63.8	3.2
4	*5530.00	114.8 PK			1.03 H	55	111.8	3.0
5	*5530.00	105.1 AV			1.03 H	55	102.1	3.0
6	#5760.02	55.1 PK	68.2	-13.1	1.03 H	55	51.6	3.5
7	11060.00	58.9 PK	74.0	-15.1	2.79 H	58	46.3	12.6
8	11060.00	47.9 AV	54.0	-6.1	2.79 H	58	35.3	12.6
9	#16590.00	56.8 PK	68.2	-11.4	2.49 H	320	42.7	14.1

Remarks:

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

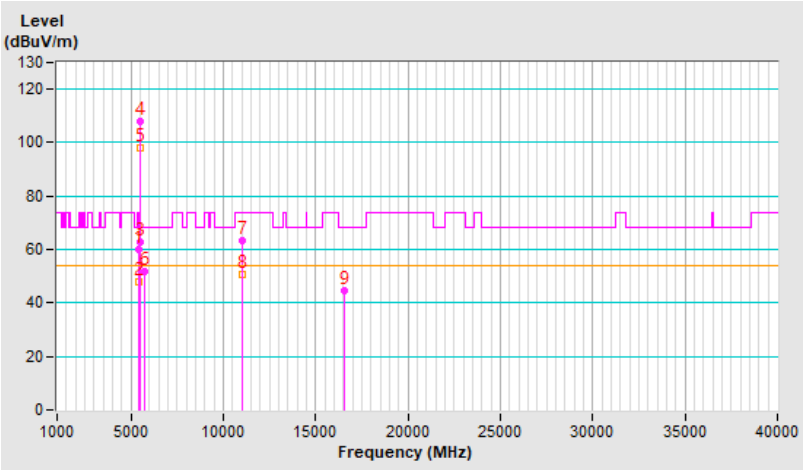


RF Mode	802.11ax (HE80)	Channel	CH 106：5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	59.8 PK	74.0	-14.2	1.36 V	47	56.6	3.2
2	5460.00	47.9 AV	54.0	-6.1	1.36 V	47	44.7	3.2
3	#5470.00	62.8 PK	68.2	-5.4	1.36 V	47	59.6	3.2
4	*5530.00	107.9 PK			1.36 V	47	104.9	3.0
5	*5530.00	98.2 AV			1.36 V	47	95.2	3.0
6	#5725.00	51.9 PK	68.2	-16.3	1.36 V	47	48.5	3.4
7	11060.00	63.5 PK	74.0	-10.5	3.99 V	360	50.9	12.6
8	11060.00	50.7 AV	54.0	-3.3	3.99 V	360	38.1	12.6
9	#16590.00	44.6 PK	68.2	-23.6	1.37 V	310	30.5	14.1

Remarks:

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

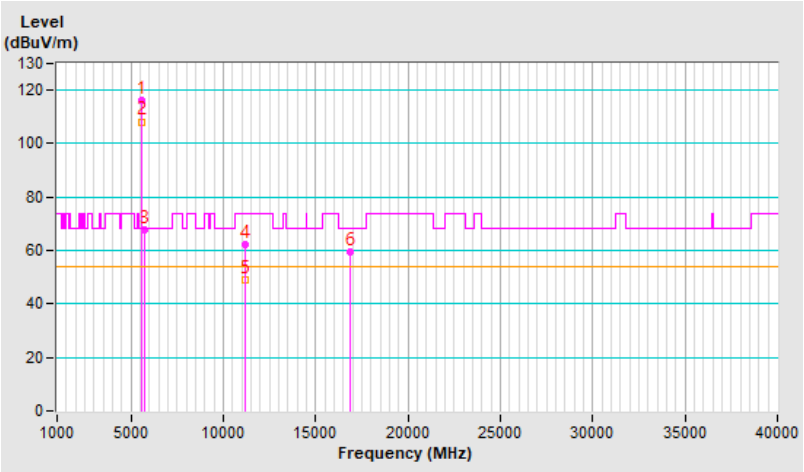


RF Mode	802.11ax (HE80)	Channel	CH 122：5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	116.2 PK			2.90 H	61	113.2	3.0
2	*5610.00	108.2 AV			2.90 H	61	105.2	3.0
3	#5725.00	67.7 PK	68.2	-0.5	2.90 H	61	64.3	3.4
4	11220.00	62.1 PK	74.0	-11.9	1.52 H	83	49.9	12.2
5	11220.00	49.0 AV	54.0	-5.0	1.52 H	83	36.8	12.2
6	#16830.00	59.5 PK	68.2	-8.7	1.48 H	314	43.8	15.7

Remarks:

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

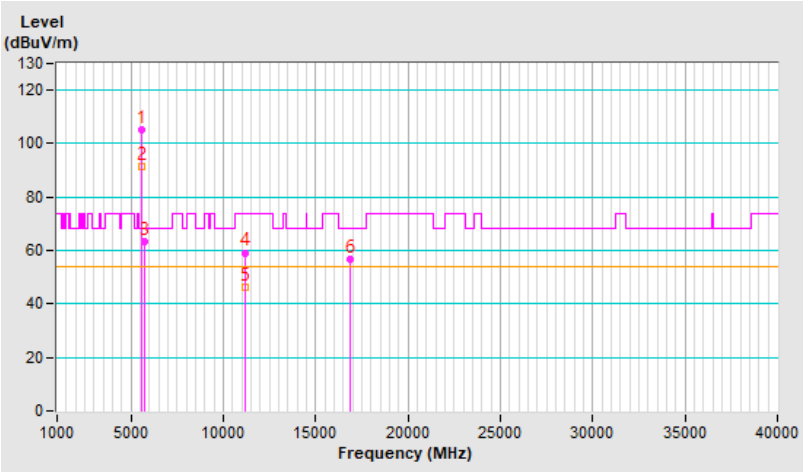


RF Mode	802.11ax (HE80)	Channel	CH 122：5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	105.4 PK			1.31 V	37	102.4	3.0
2	*5610.00	91.6 AV			1.31 V	37	88.6	3.0
3	#5725.00	63.5 PK	68.2	-4.7	1.31 V	37	60.1	3.4
4	11220.00	59.2 PK	74.0	-14.8	3.92 V	351	47.0	12.2
5	11220.00	46.1 AV	54.0	-7.9	3.92 V	351	33.9	12.2
6	#16830.00	56.6 PK	68.2	-11.6	1.37 V	334	40.9	15.7

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.

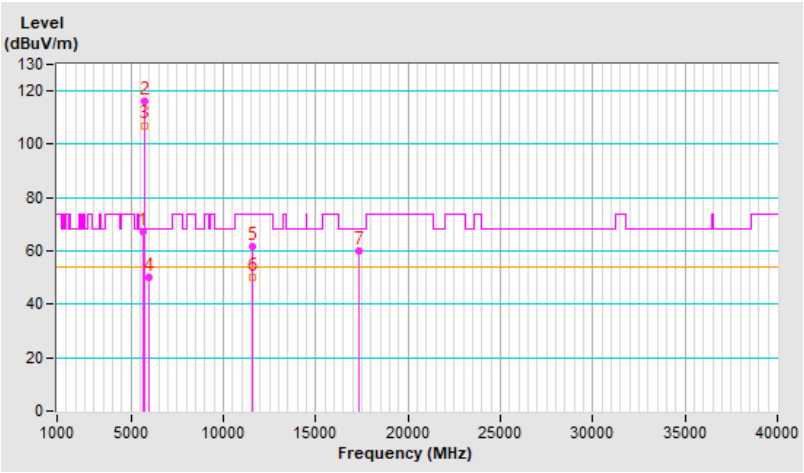


RF Mode	802.11ax (HE80)	Channel	CH 155：5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	#5643.43	67.3 PK	68.2	-0.9	1.50 H	44	64.3	3.0
2	*5775.00	116.1 PK			1.50 H	44	112.6	3.5
3	*5775.00	107.1 AV			1.50 H	44	103.6	3.5
4	#5940.63	49.9 PK	68.2	-18.3	1.50 H	44	46.3	3.6
5	11550.00	61.9 PK	74.0	-12.1	2.06 H	331	49.4	12.5
6	11550.00	50.2 AV	54.0	-3.8	2.06 H	331	37.7	12.5
7	#17325.00	59.8 PK	68.2	-8.4	1.43 H	316	42.1	17.7

Remarks:

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

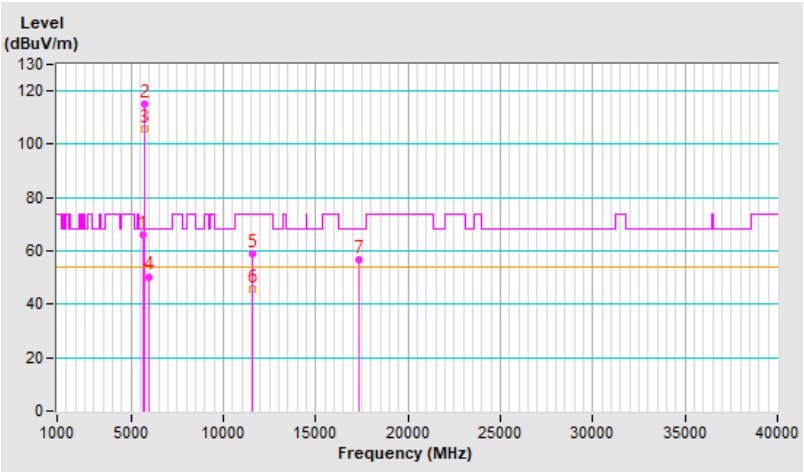


RF Mode	802.11ax (HE80)	Channel	CH 155：5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	#5641.76	66.1 PK	68.2	-2.1	4.00 V	354	63.0	3.1
2	*5775.00	114.9 PK			4.00 V	354	111.4	3.5
3	*5775.00	105.7 AV			4.00 V	354	102.2	3.5
4	#5941.04	50.4 PK	68.2	-17.8	4.00 V	354	46.8	3.6
5	11550.00	58.9 PK	74.0	-15.1	3.99 V	360	46.4	12.5
6	11550.00	45.6 AV	54.0	-8.4	3.99 V	360	33.1	12.5
7	#17325.00	56.8 PK	68.2	-11.4	1.40 V	338	39.1	17.7

Remarks:

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

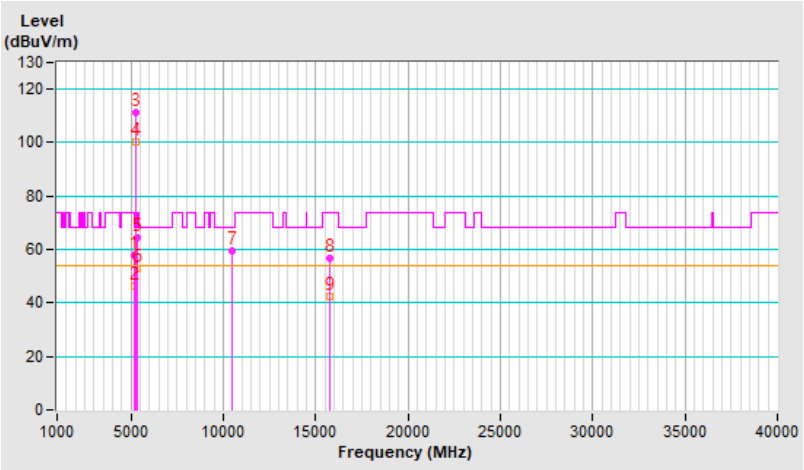


RF Mode	802.11ax (HE160)	Channel	CH 50：5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.0 PK	74.0	-16.0	2.52 H	56	54.6	3.4
2	5150.00	46.5 AV	54.0	-7.5	2.52 H	56	43.1	3.4
3	*5250.00	111.5 PK			2.52 H	56	108.8	2.7
4	*5250.00	100.1 AV			2.52 H	56	97.4	2.7
5	5350.00	64.2 PK	74.0	-9.8	2.52 H	56	61.3	2.9
6	5350.00	53.1 AV	54.0	-0.9	2.52 H	56	50.2	2.9
7	#10500.00	59.3 PK	68.2	-8.9	2.77 H	40	47.6	11.7
8	15750.00	56.8 PK	74.0	-17.2	2.50 H	343	44.7	12.1
9	15750.00	42.3 AV	54.0	-11.7	2.50 H	343	30.2	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.

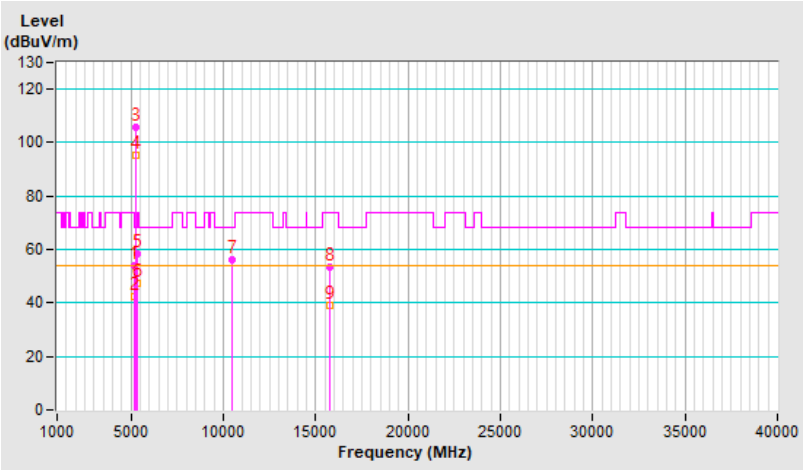


RF Mode	802.11ax (HE160)	Channel	CH 50：5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	54.0 PK	74.0	-20.0	1.29 V	309	50.6	3.4
2	5150.00	42.4 AV	54.0	-11.6	1.29 V	309	39.0	3.4
3	*5250.00	105.9 PK			1.29 V	309	103.2	2.7
4	*5250.00	95.2 AV			1.29 V	309	92.5	2.7
5	5350.00	58.3 PK	74.0	-15.7	1.29 V	309	55.4	2.9
6	5350.00	47.3 AV	54.0	-6.7	1.29 V	309	44.4	2.9
7	#10500.00	56.1 PK	68.2	-12.1	3.99 V	360	44.4	11.7
8	15750.00	53.6 PK	74.0	-20.4	1.40 V	315	41.5	12.1
9	15750.00	39.1 AV	54.0	-14.9	1.40 V	315	27.0	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.

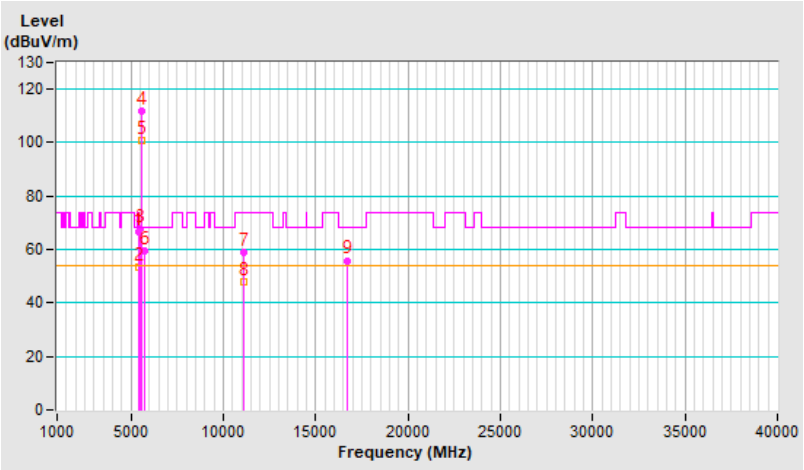


RF Mode	802.11ax (HE160)	Channel	CH 114：5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

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	66.8 PK	74.0	-7.2	1.00 H	52	63.6	3.2
2	5460.00	53.5 AV	54.0	-0.5	1.00 H	52	50.3	3.2
3	#5470.00	67.7 PK	68.2	-0.5	1.00 H	52	64.5	3.2
4	*5570.00	111.8 PK			1.00 H	52	108.8	3.0
5	*5570.00	101.0 AV			1.00 H	52	98.0	3.0
6	#5725.00	59.5 PK	68.2	-8.7	1.00 H	52	56.1	3.4
7	11140.00	59.0 PK	74.0	-15.0	2.91 H	36	46.7	12.3
8	11140.00	48.1 AV	54.0	-5.9	2.91 H	36	35.8	12.3
9	#16710.00	55.9 PK	68.2	-12.3	2.60 H	331	40.7	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.

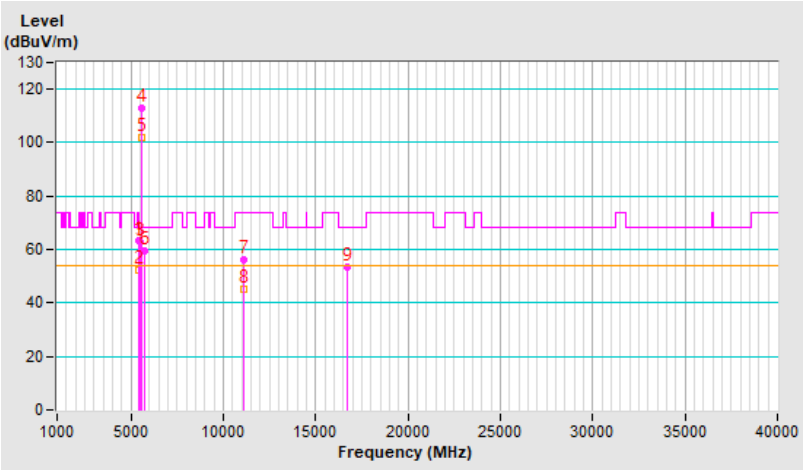


RF Mode	802.11ax (HE160)	Channel	CH 114：5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 71% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.3 PK	74.0	-10.7	4.00 V	354	60.1	3.2
2	5460.00	52.2 AV	54.0	-1.8	4.00 V	354	49.0	3.2
3	#5470.00	62.6 PK	68.2	-5.6	4.00 V	354	59.4	3.2
4	*5570.00	113.0 PK			4.00 V	354	110.0	3.0
5	*5570.00	101.7 AV			4.00 V	354	98.7	3.0
6	#5725.00	59.6 PK	68.2	-8.6	1.00 V	57	56.2	3.4
7	11140.00	56.0 PK	74.0	-18.0	3.93 V	357	43.7	12.3
8	11140.00	45.0 AV	54.0	-9.0	3.93 V	357	32.7	12.3
9	#16710.00	53.5 PK	68.2	-14.7	1.31 V	318	38.3	15.2

Remarks:

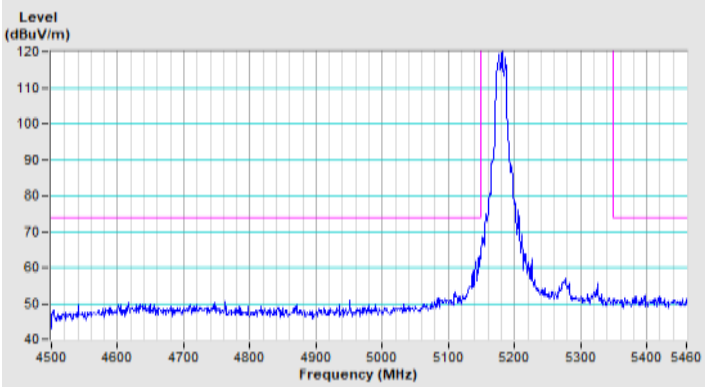
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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



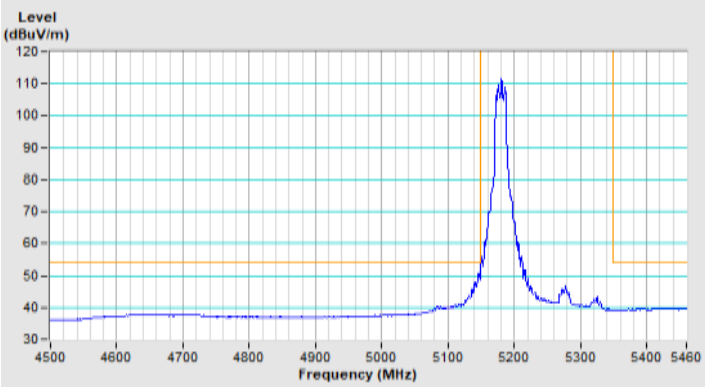
Plot of Band Edge

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

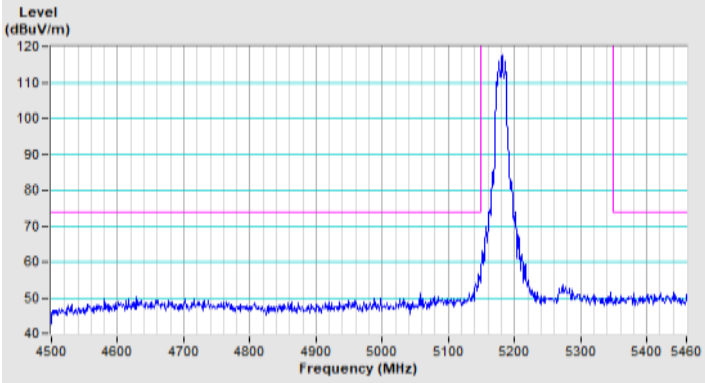
802.11a Channel 36



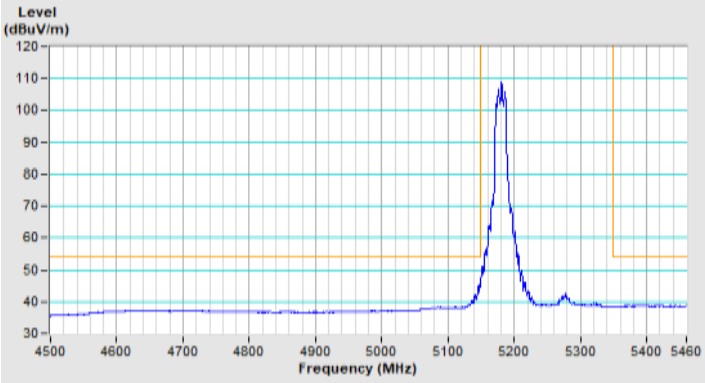
Horizontal (Peak)



Horizontal (Average)

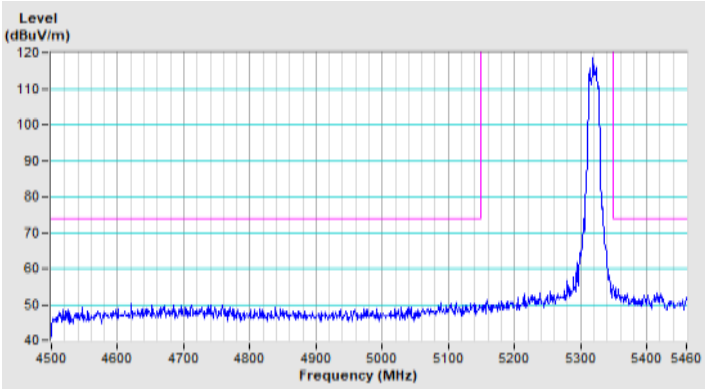


Vertical (Peak)

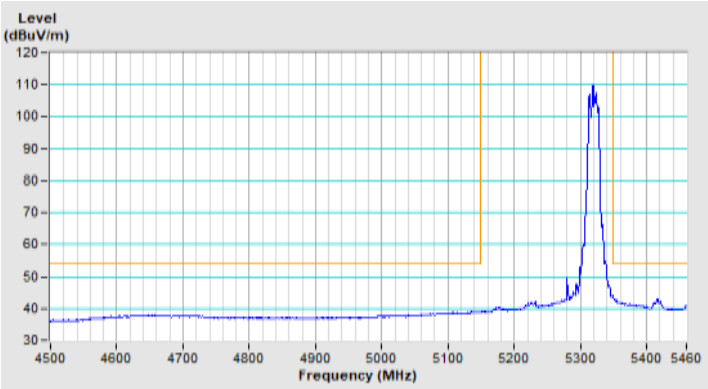


Vertical (Average)

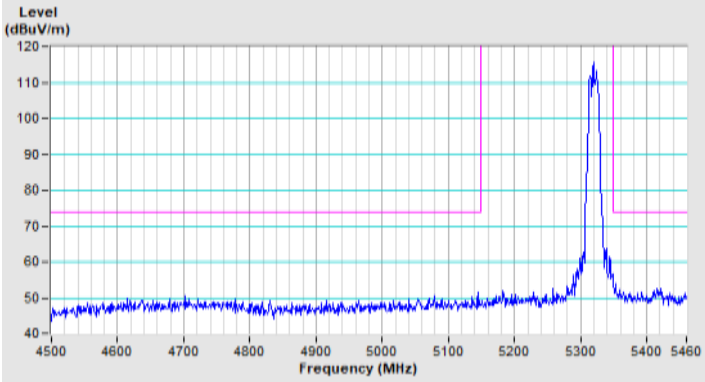
802.11a Channel 64



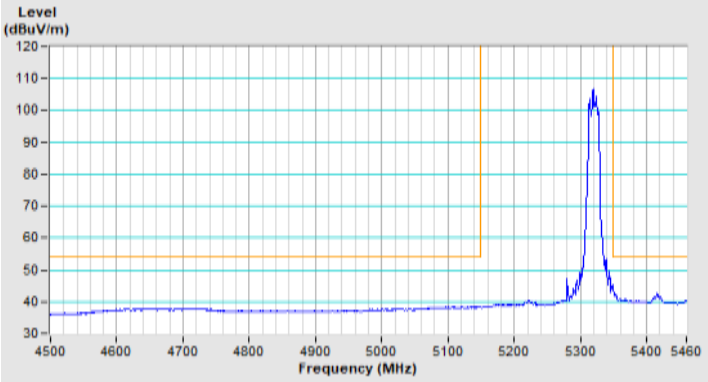
Horizontal (Peak)



Horizontal (Average)



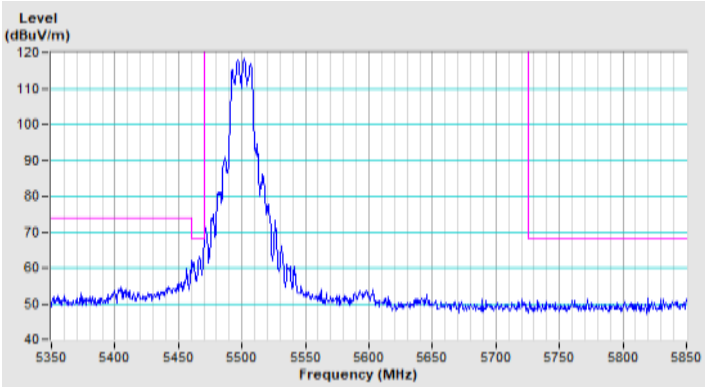
Vertical (Peak)



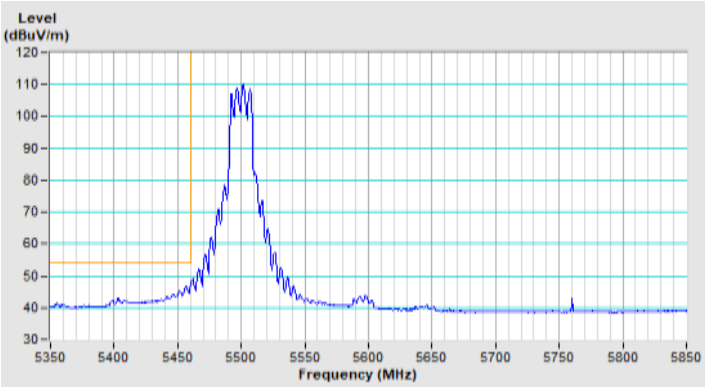
Vertical (Average)

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

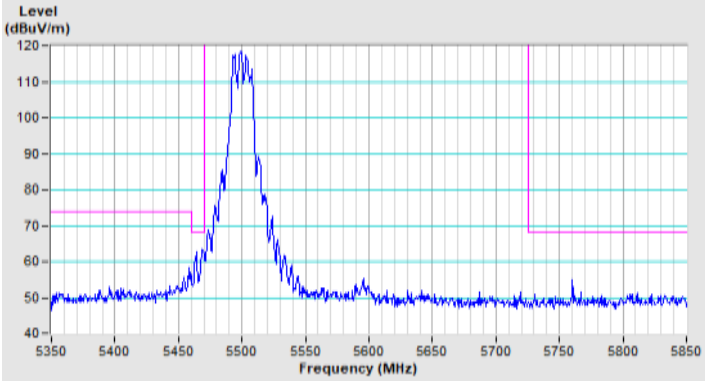
802.11a Channel 100



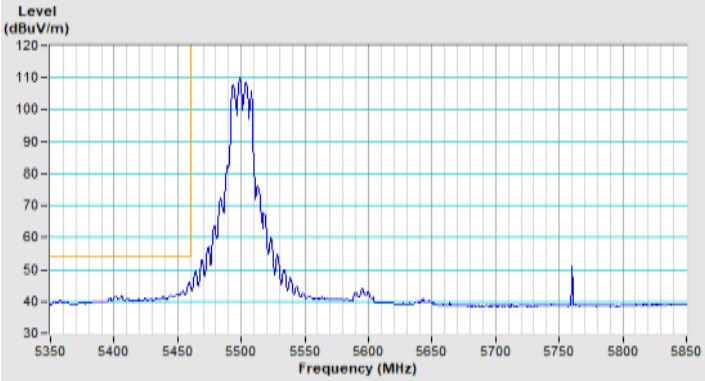
Horizontal (Peak)



Horizontal (Average)



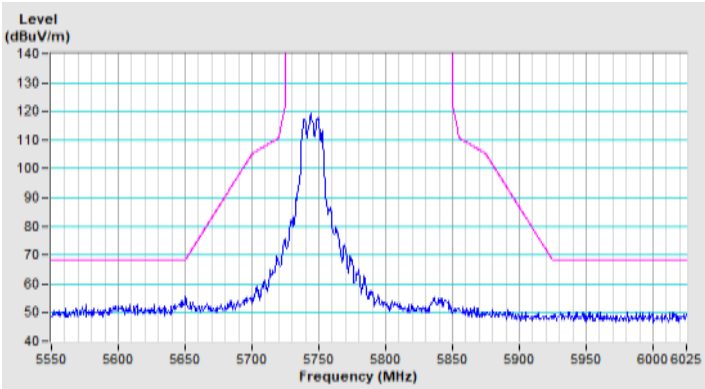
Vertical (Peak)



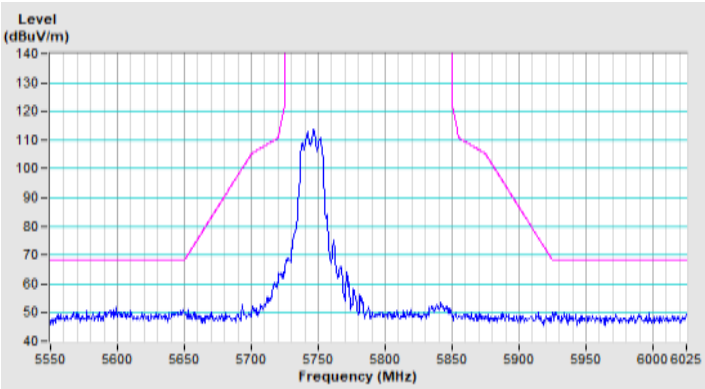
Vertical (Average)

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

802.11a Channel 149

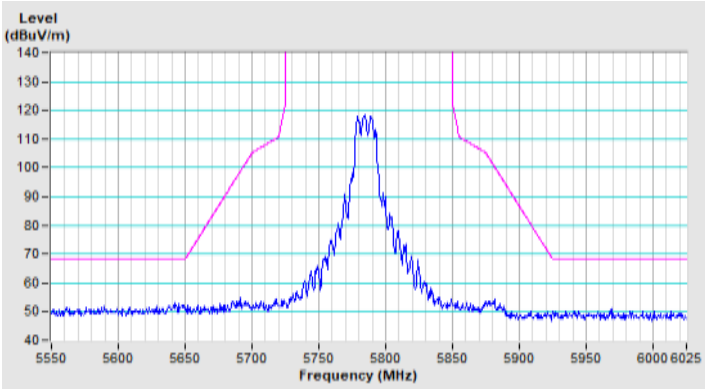


Horizontal (Peak)

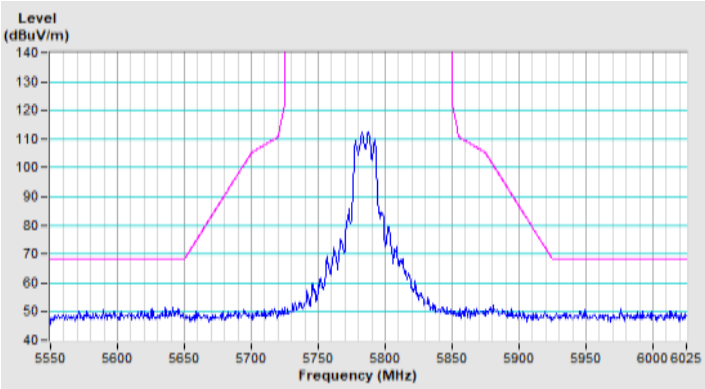


Vertical (Peak)

802.11a Channel 157

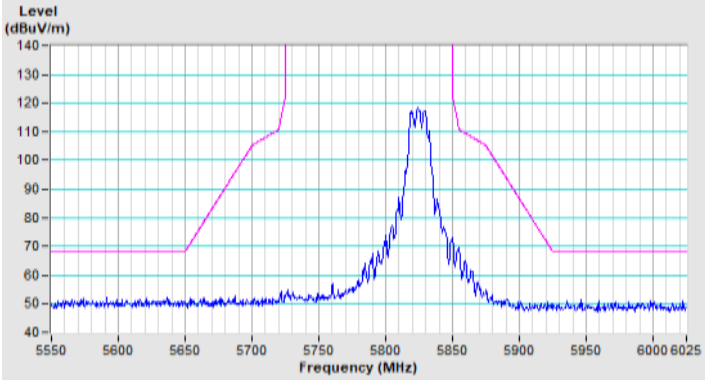


Horizontal (Peak)

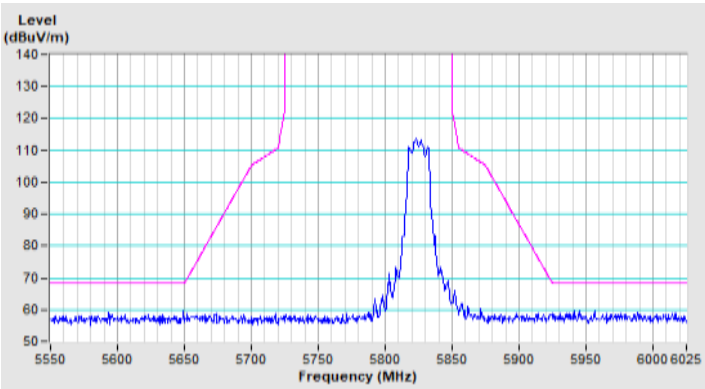


Vertical (Peak)

802.11a Channel 165



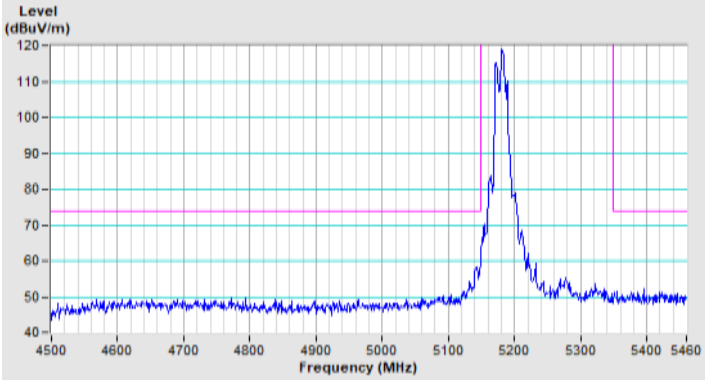
Horizontal (Peak)



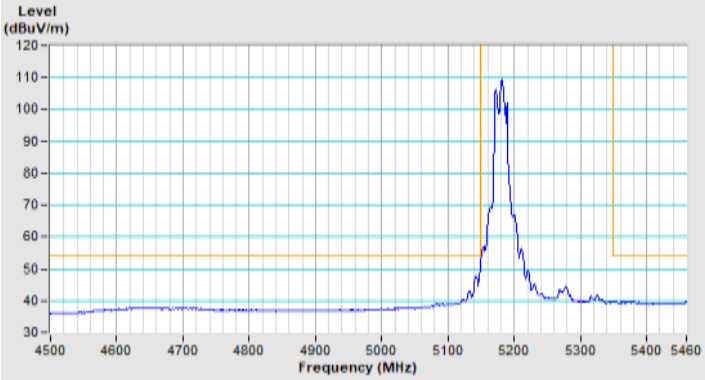
Vertical (Peak)

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

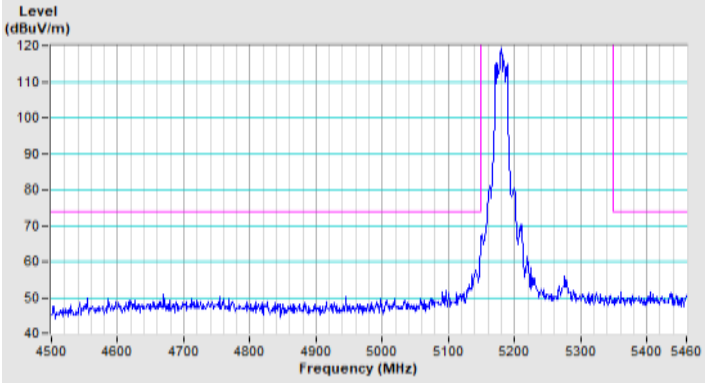
802.11ax (HE20) Channel 36



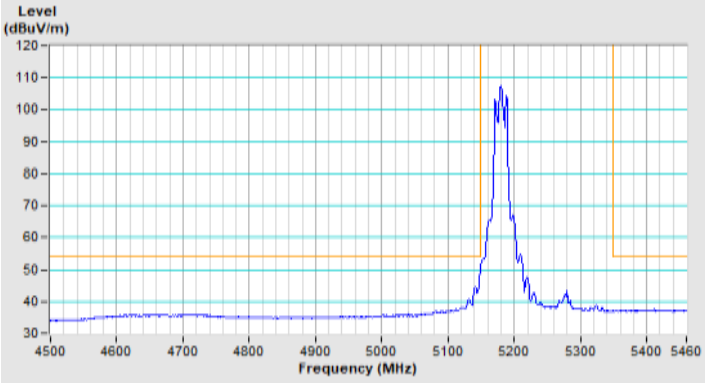
Horizontal (Peak)



Horizontal (Average)

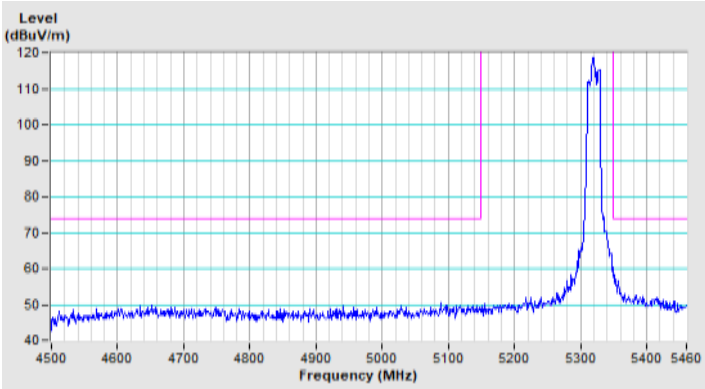


Vertical (Peak)

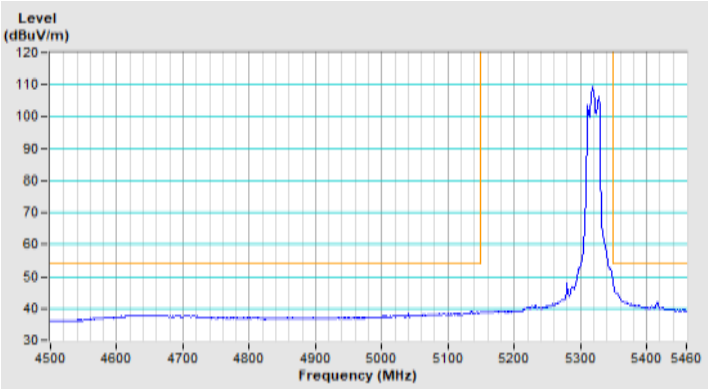


Vertical (Average)

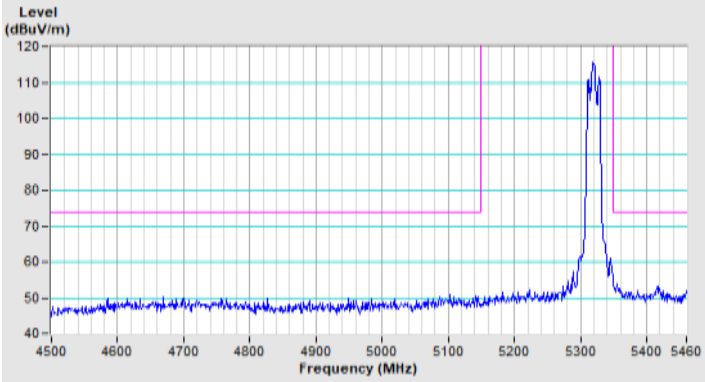
802.11ax (HE20) Channel 64



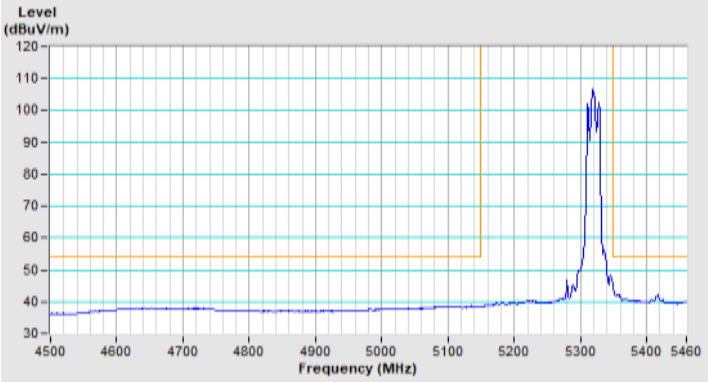
Horizontal (Peak)



Horizontal (Average)



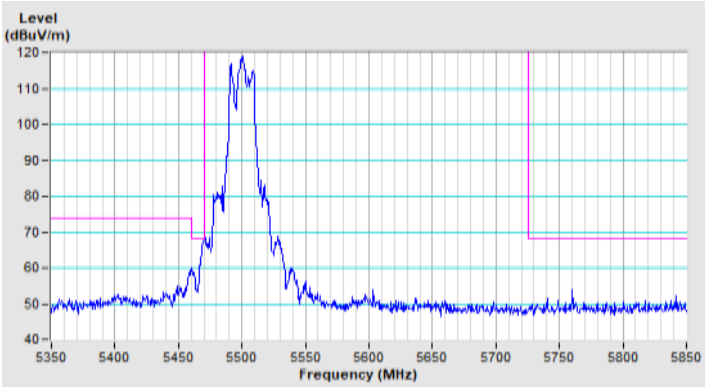
Vertical (Peak)



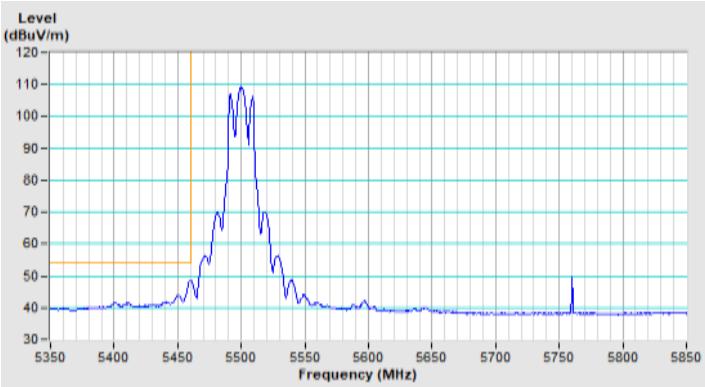
Vertical (Average)

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

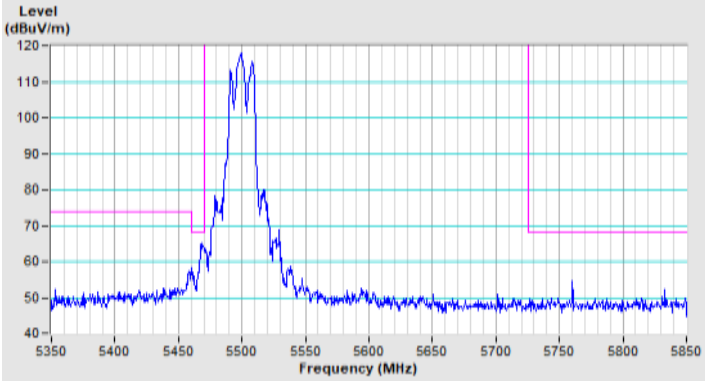
802.11ax (HE20) Channel 100



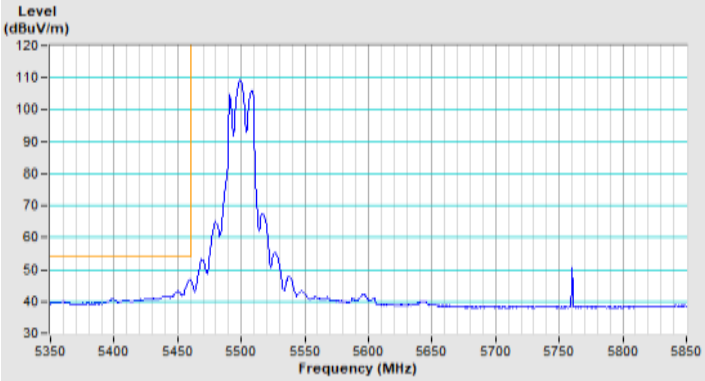
Horizontal (Peak)



Horizontal (Average)



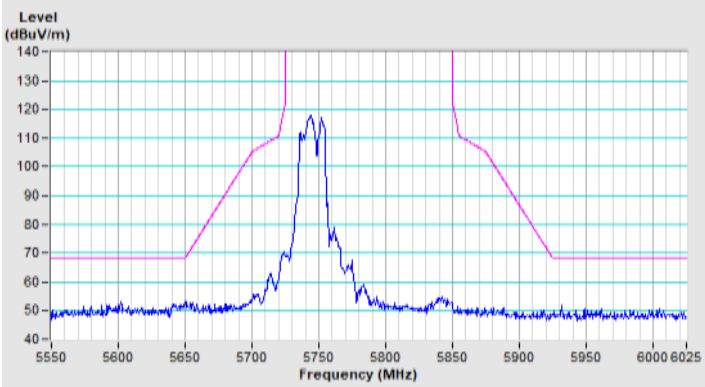
Vertical (Peak)



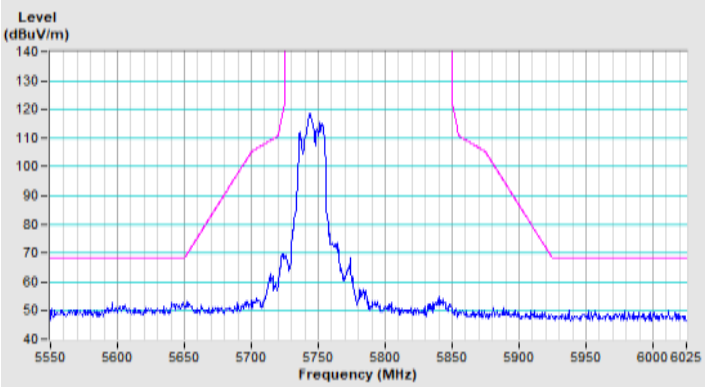
Vertical (Average)

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

802.11ax (HE20) Channel 149

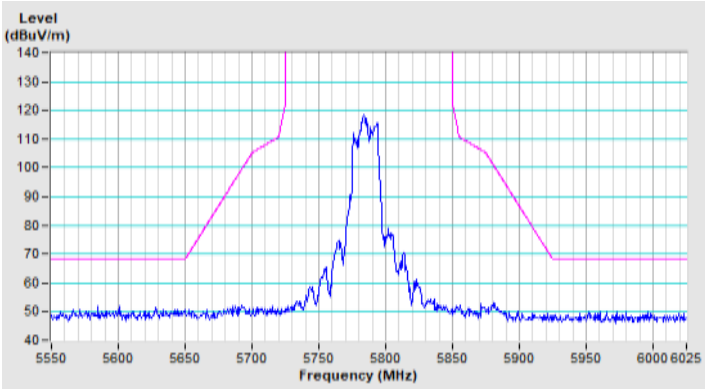


Horizontal (Peak)

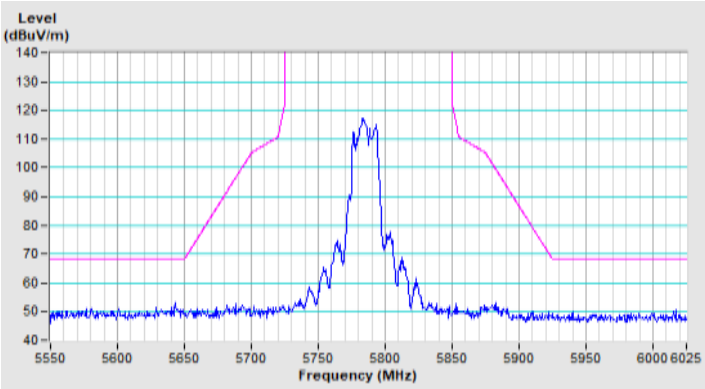


Vertical (Peak)

802.11ax (HE20) Channel 157

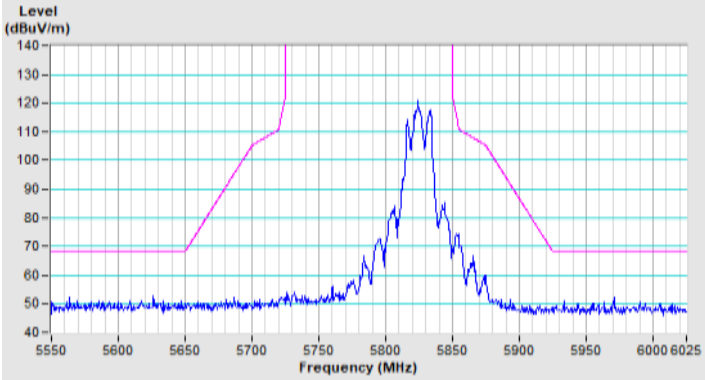


Horizontal (Peak)

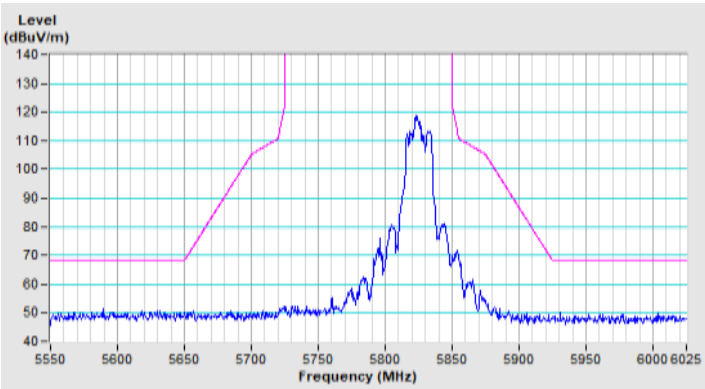


Vertical (Peak)

802.11ax (HE20) Channel 165



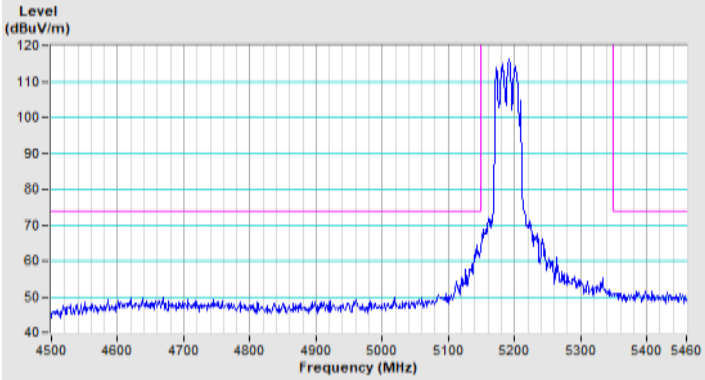
Horizontal (Peak)



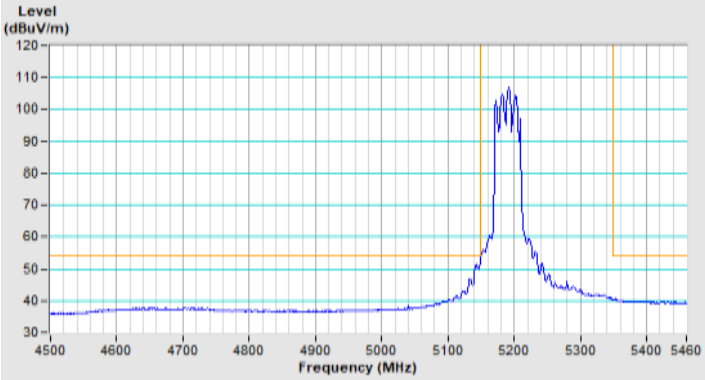
Vertical (Peak)

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

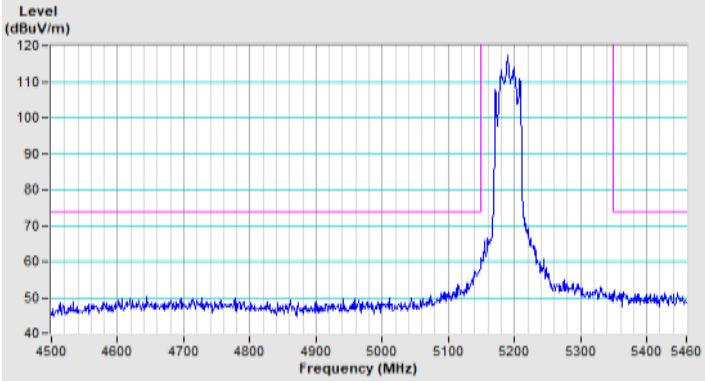
802.11ax (HE40) Channel 38



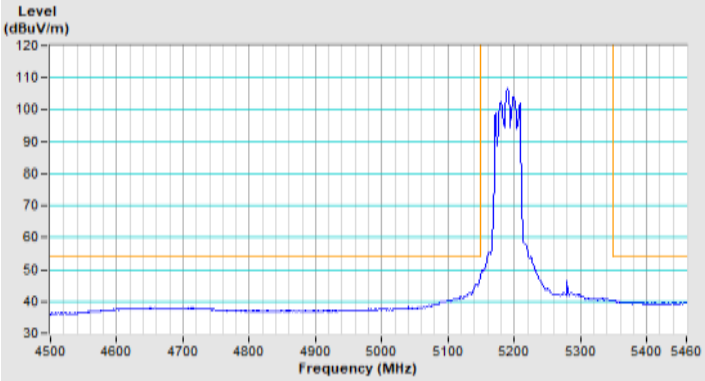
Horizontal (Peak)



Horizontal (Average)

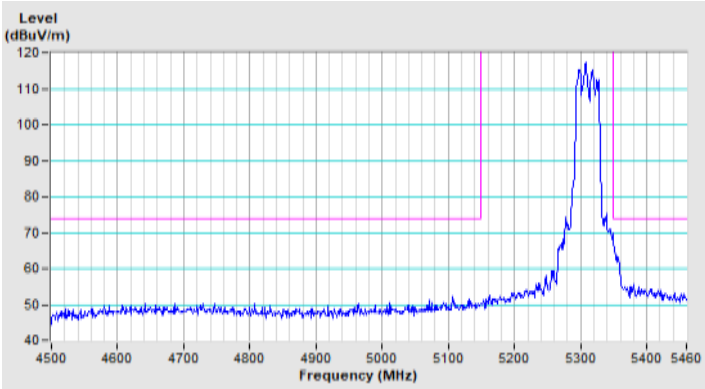


Vertical (Peak)

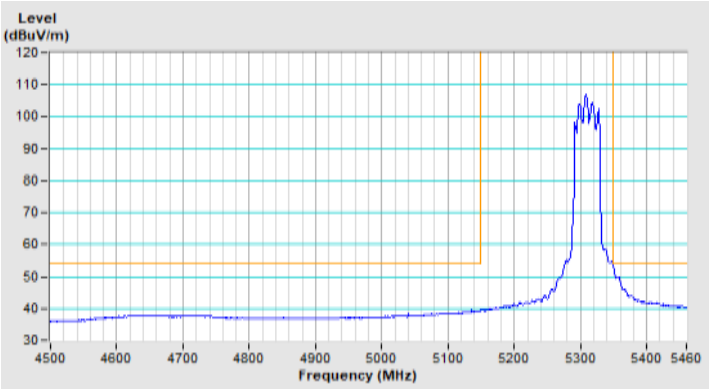


Vertical (Average)

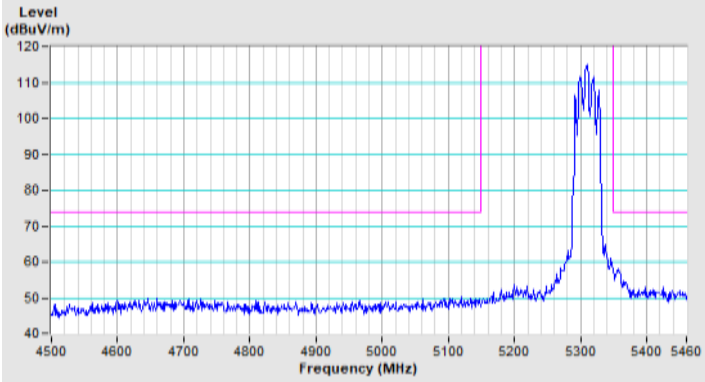
802.11ax (HE40) Channel 62



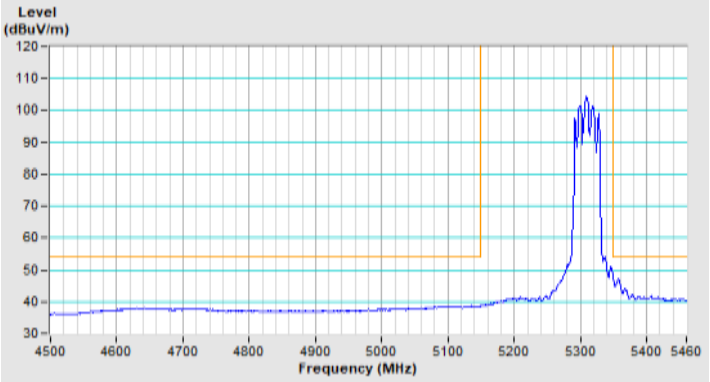
Horizontal (Peak)



Horizontal (Average)



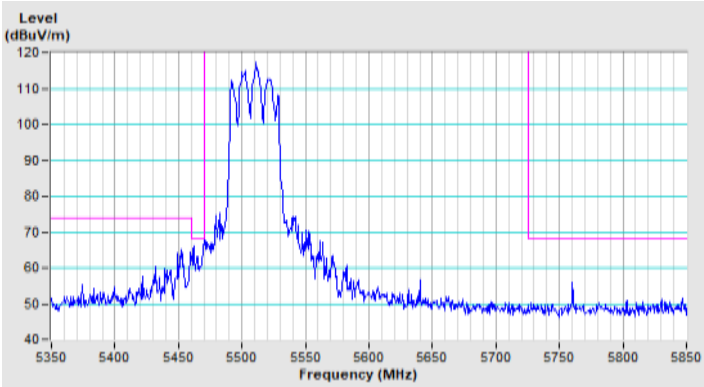
Vertical (Peak)



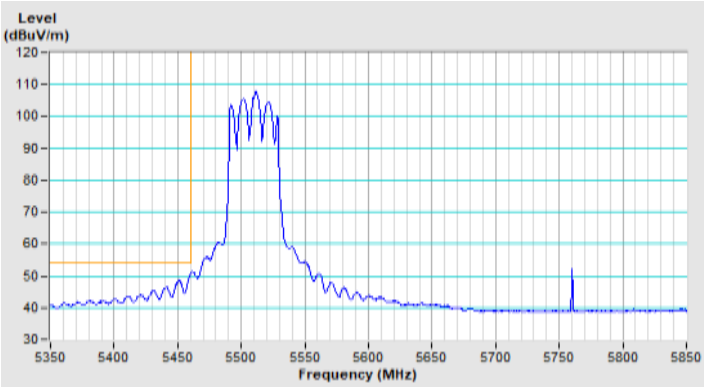
Vertical (Average)

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

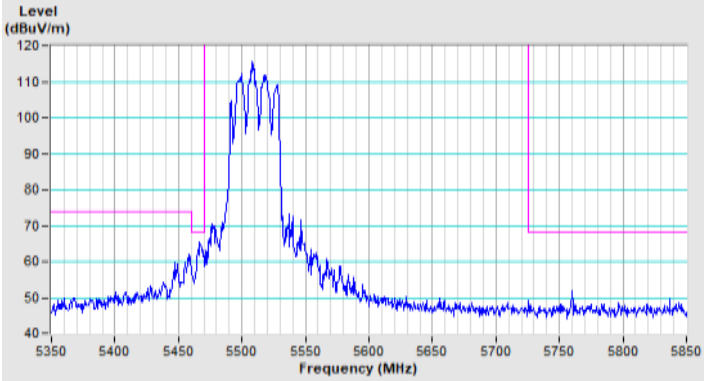
802.11ax (HE40) Channel 102



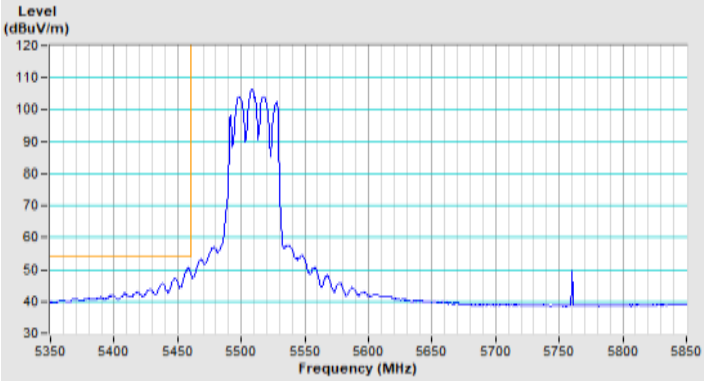
Horizontal (Peak)



Horizontal (Average)



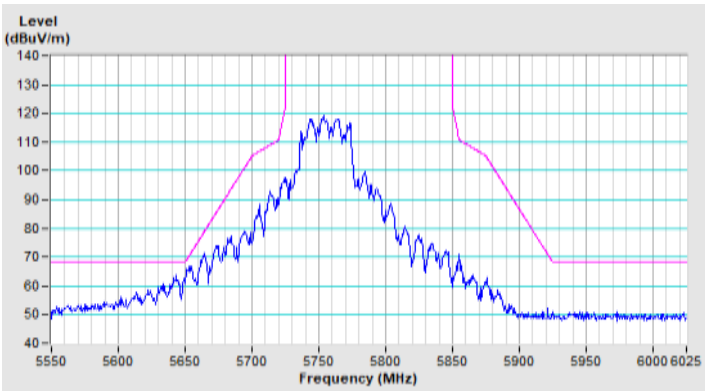
Vertical (Peak)



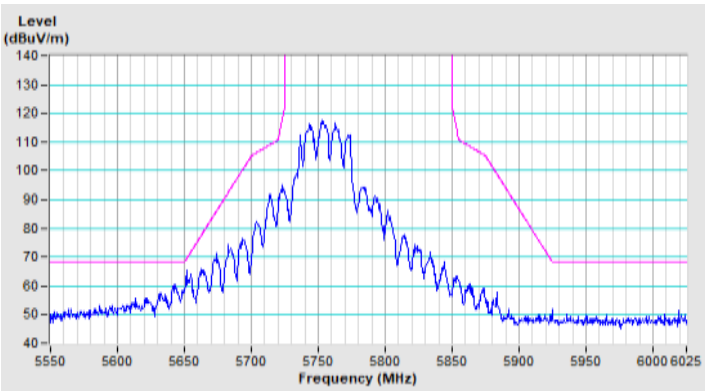
Vertical (Average)

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

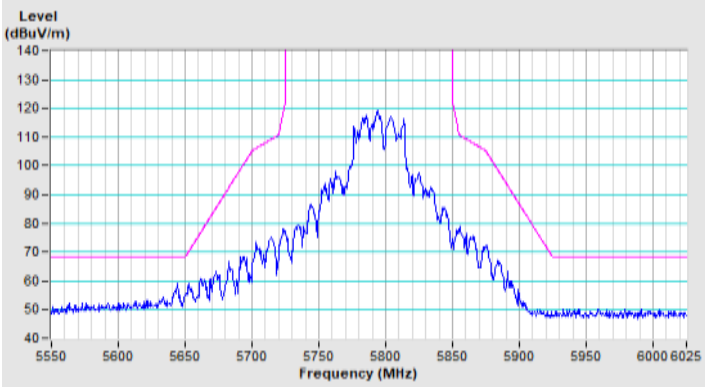
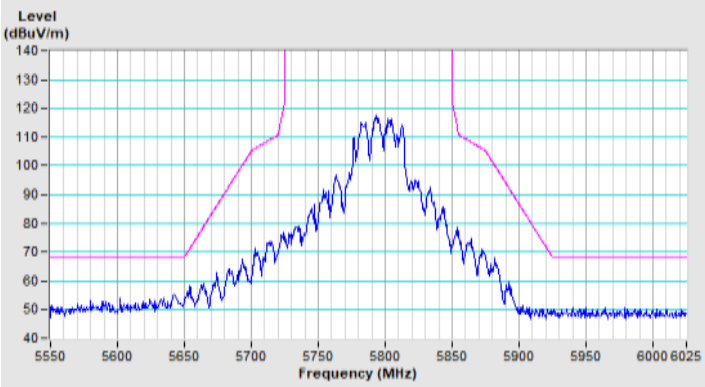
802.11ax (HE40) Channel 151



Horizontal (Peak)

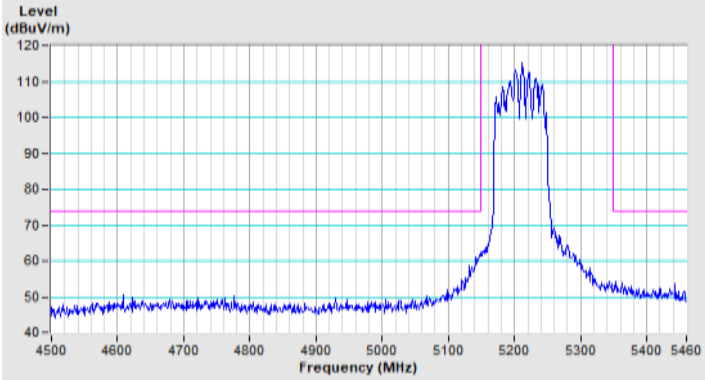


Vertical (Peak)

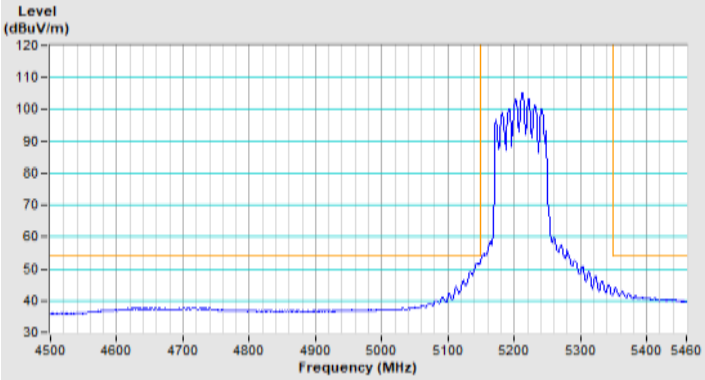
802.11ax (HE40) Channel 159	
	
Horizontal (Peak)	Vertical (Peak)

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

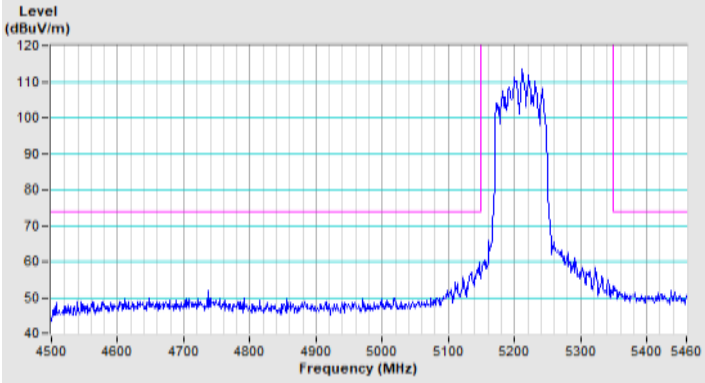
802.11ax (HE80) Channel 42



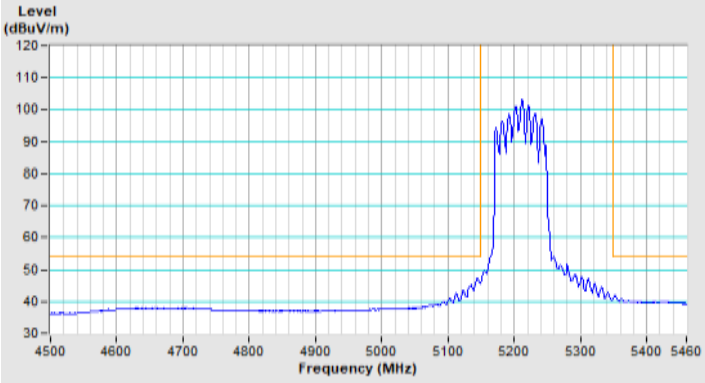
Horizontal (Peak)



Horizontal (Average)

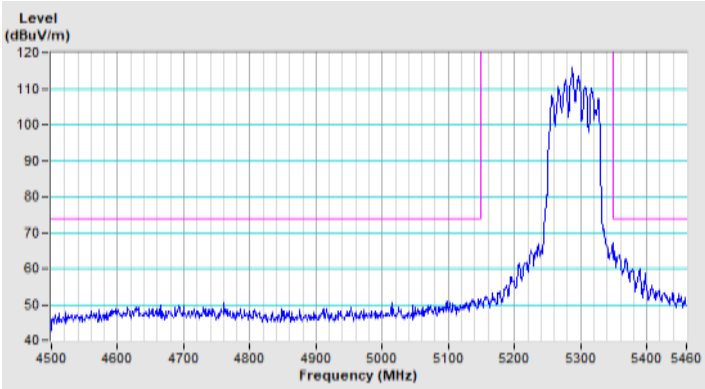


Vertical (Peak)

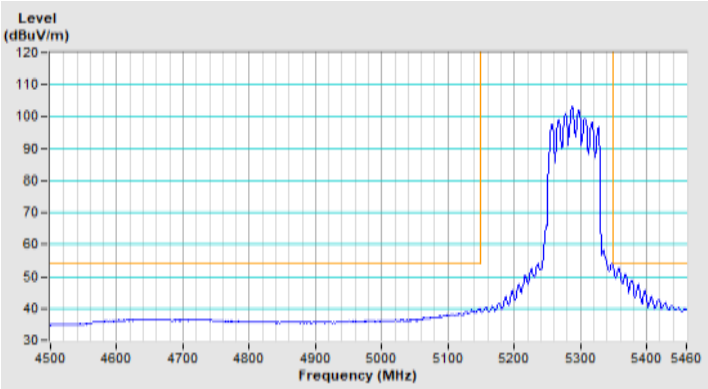


Vertical (Average)

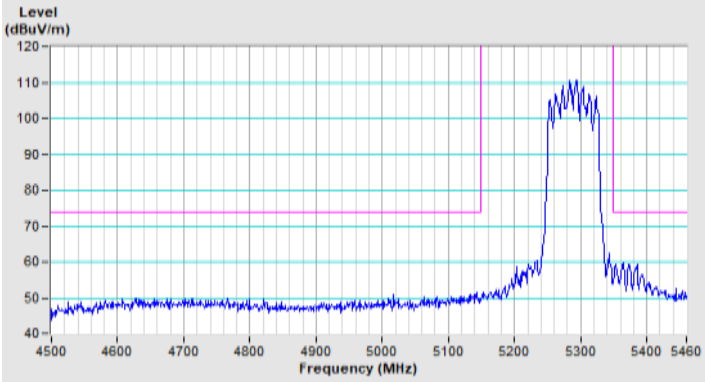
802.11ax (HE80) Channel 58



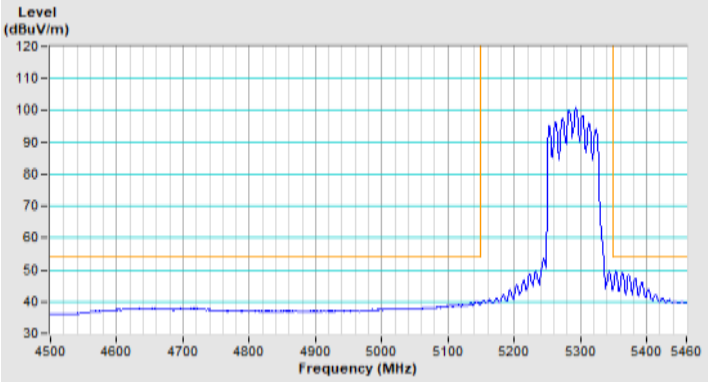
Horizontal (Peak)



Horizontal (Average)



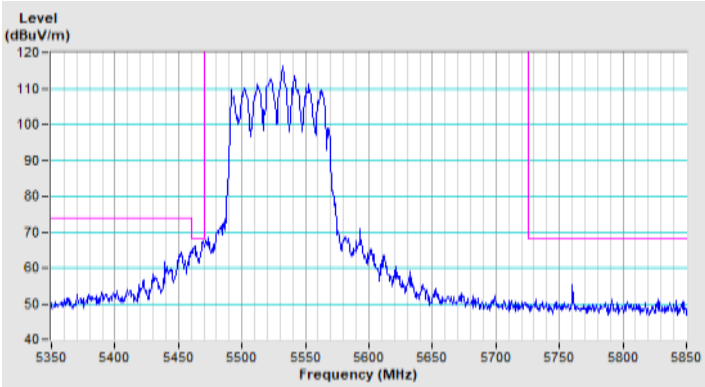
Vertical (Peak)



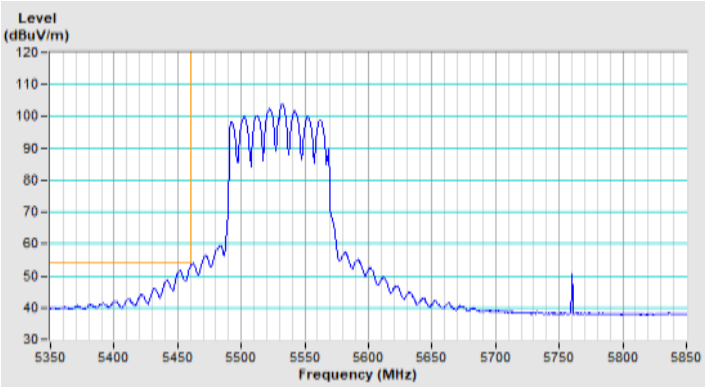
Vertical (Average)

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

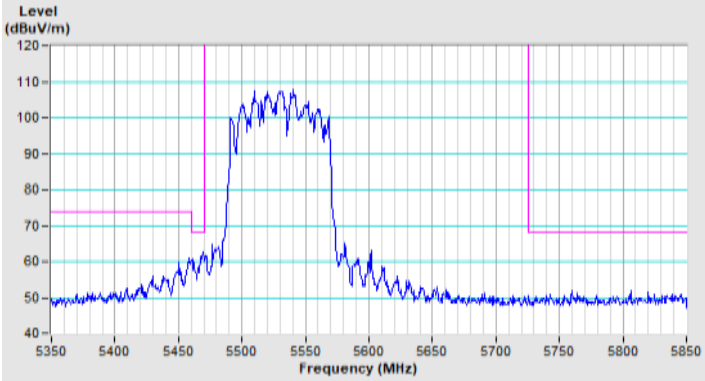
802.11ax (HE80) Channel 106



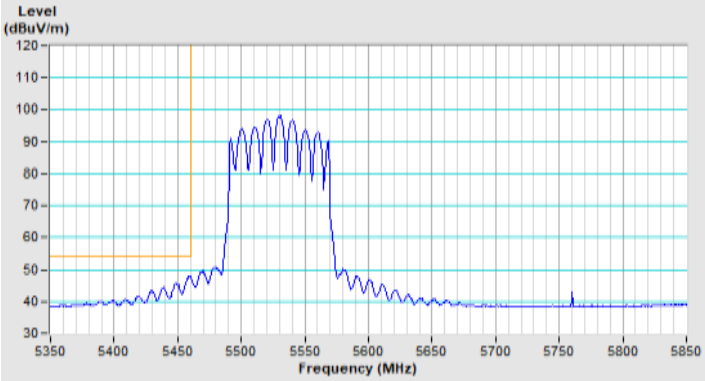
Horizontal (Peak)



Horizontal (Average)



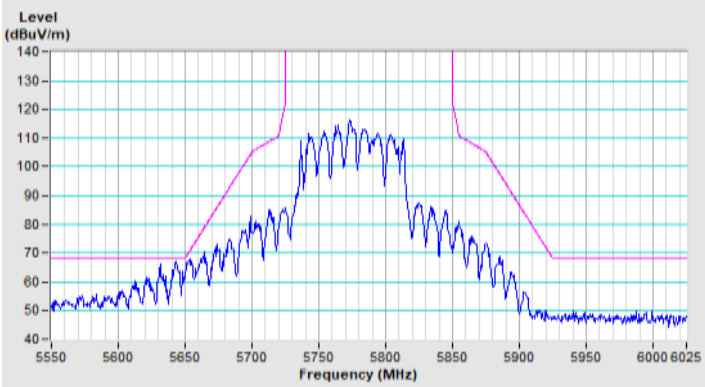
Vertical (Peak)



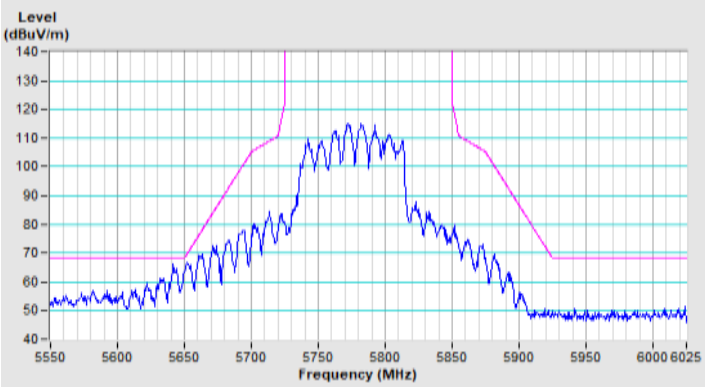
Vertical (Average)

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

802.11ax (HE80) Channel 155



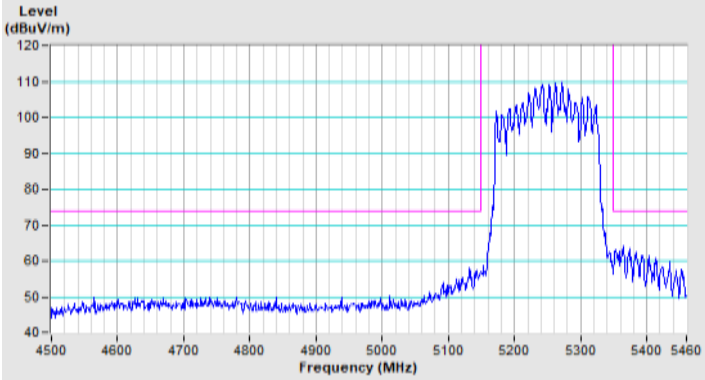
Horizontal (Peak)



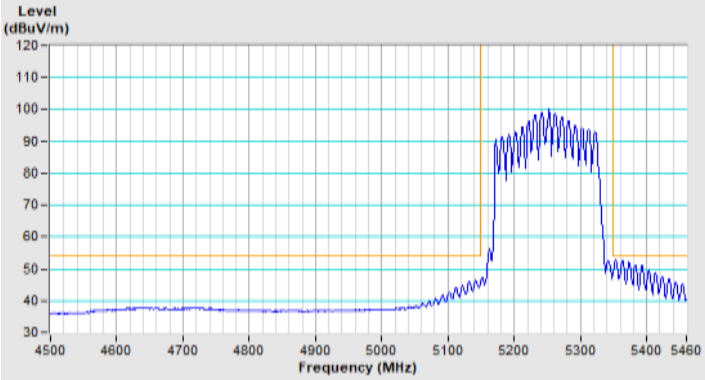
Vertical (Peak)

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

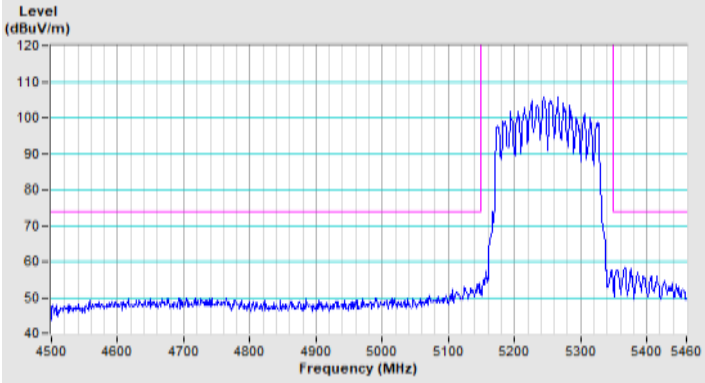
802.11ax (HE160) Channel 50



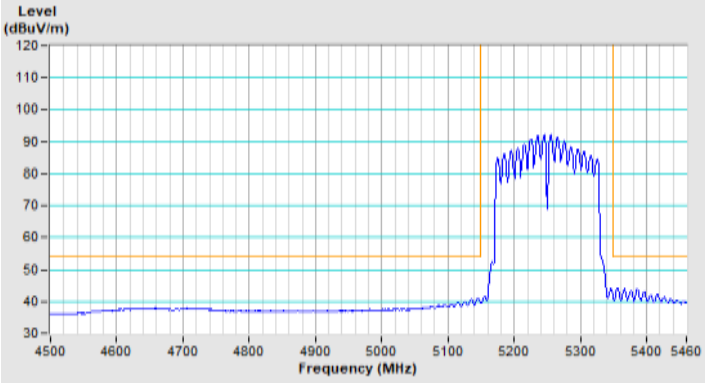
Horizontal (Peak)



Horizontal (Average)



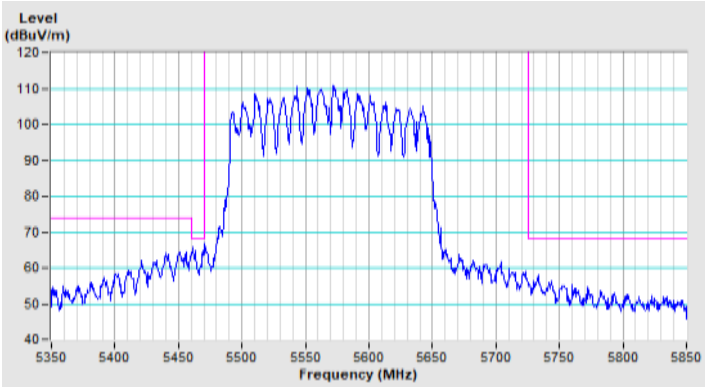
Vertical (Peak)



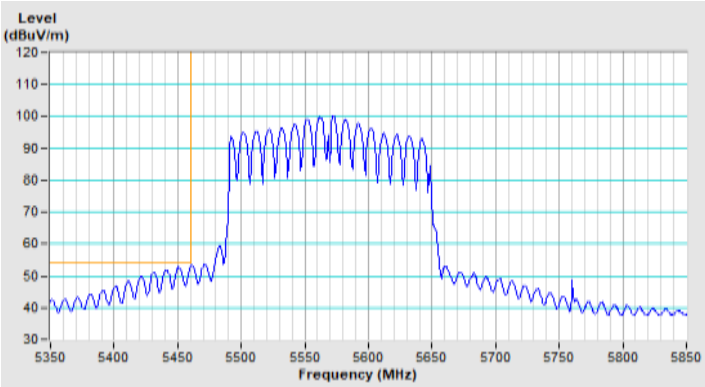
Vertical (Average)

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=10 Hz, DET=Peak

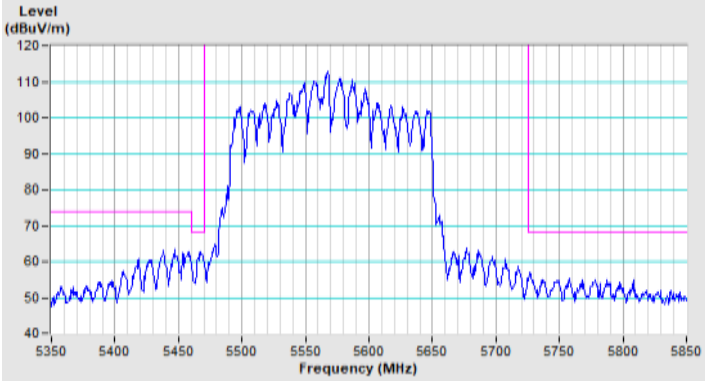
802.11ax (HE160) Channel 114



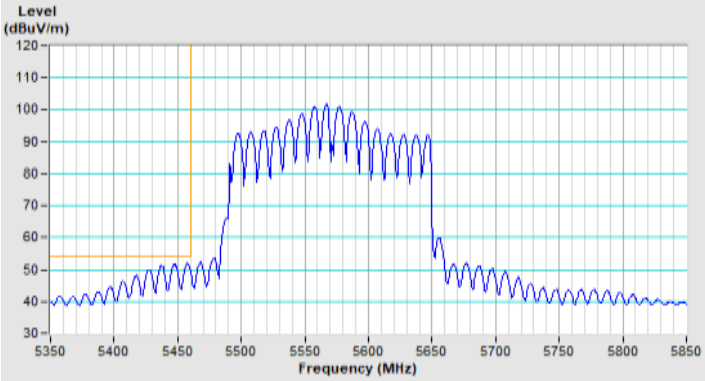
Horizontal (Peak)



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:

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Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab
Tel: 886-3-6668565
Fax: 886-3-6668323

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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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