

Partial FCC Test Report

Report No.: RF200605C05-3

FCC ID: O57AX200NGW

Test Model: AX200NGW

Received Date: Jan. 14, 2020

Test Date: Jul. 17, 2020 ~ Jul. 21, 2020

Issued Date: Aug. 07, 2020

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Release Control Record

Issue No.	Description	Date Issued
RF200605C05-3	Original Release	Aug. 07, 2020

1 Certificate of Conformity

Product: WLAN and BT , 2x2 Pcle M.2 2230 adapter card

Brand: Intel® Wi-Fi 6 AX200

Test Model: AX200NGW

Sample Status: Engineering Sample

Applicant: Lenovo(Shanghai) Electronics Technology Co., Ltd.

Test Date: Jul. 17, 2020 ~ Jul. 21, 2020

Standards: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10:2013

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.

Prepared by : Shelly Hsueh, **Date:** Aug. 07, 2020
Shelly Hsueh / Specialist

Approved by : Dylan Chiou, **Date:** Aug. 07, 2020
Dylan Chiou / Senior Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -16.63 dB at 0.39844 MHz.
15.407(b)(1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -6.4 dB at 11000 MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only
15.407(a)(1/2/3)	Peak Power Spectral Density	N/A	Refer to Note
15.407(e)	6 dB Bandwidth	N/A	Refer to Note
15.407(g)	Frequency Stability	N/A	Refer to Note
15.203	Antenna Requirement	Pass	Antenna connector is I-PEX not a standard connector.

Note:

1. This report is a partial report, only test item of Conducted Emission, Radiated Emissions and Maximum Peak Output Power were performed for this report. Other testing data please refer to Intel report no.: 181210-03.TR01, 181210-03.TR02, and 181210-03.TR03 for module (Brand: **Intel® Wi-Fi 6 AX200** , Model: AX200NGW).
2. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
3. For U-NII-1, U-NII-2A, U-NII-2C band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex B. Test Procedures refer to report 4.1.3.
4. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.79 dB
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.04 dB
	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	WLAN and BT , 2x2 PCIe M.2 2230 adapter card
Brand	Intel® Wi-Fi 6 AX200
Test Model	AX200NGW
Status of EUT	Engineering Sample
Power Supply Rating	3.3Vdc form host equipment
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0 Mbps 802.11n: up to HT8 802.11ac: up to VHT0 802.11ax: up to HE0
Operating Frequency	5180 ~ 5250 MHz, 5250 ~ 5320 MHz, 5500 ~ 5720 MHz, 5745 ~ 5825 MHz
Number of Channel	5180 ~ 5320 MHz: 8 for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20) 4 for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40) 2 for 802.11ac (VHT80), 802.11ax (HE80) 1 for 802.11ac (VHT160), 802.11ax (HE160) 5500 ~ 5720 MHz: 12 for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20) 6 for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40) 3 for 802.11ac (VHT80), 802.11ax (HE80) 1 for 802.11ac (VHT160), 802.11ax (HE160) 5745 ~ 5825 MHz: 5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20) 2 for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40) 1 for 802.11ac (VHT80), 802.11ax (HE80)
Output Power	35.12 mW for 5180 ~ 5250 MHz 35.08 mW for 5260 ~ 5320 MHz 35.16 mW for 5500 ~ 5720 MHz 35.12 mW for 5745 ~ 5825 MHz
Antenna Type	Refer to Note as below
Antenna Connector	Refer to Note as below
Accessory Device	N/A
Data Cable Supplied	N/A

Note:

1. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

Modulation Mode	Tx Function
802.11a	1TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX
802.11ac (VHT20)	2TX
802.11ac (VHT40)	2TX
802.11ax (HE20)	2TX
802.11ax (HE40)	2TX
802.11ac (VHT80)	2TX
802.11ax (HE80)	2TX
802.11ac (VHT160)	2TX
802.11ax (HE160)	2TX

* The modulation and bandwidth are similar for 802.11n mode for HT20 / HT40 and 802.11ac mode for VHT20 / VHT40 / VHT80 / VHT160 and 802.11ax mode for HE20 / HE40 / HE80 / HE160, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

2. The EUT is authorized for use in specific End-product. Please refer to below table for more details.

Product	Brand	Model
Notebook Computer	Lenovo	ThinkBook 14 G2 ARE*****

Note: *=0~9,A-Z,a-z,"-" or blank, for marketing use only, with no impact on RF compliance of the product.

3. The following accessories were for the End-product.

Product	Brand	Model	Description
Adapter	Lenovo	ADLX65YAC3D	I/P: 100-240 Vac, 50-60 Hz, 1.8 A O/P: 20 Vdc, 3.25 A 1.8m cable with 1 core
Battery	Lenovo	L19C4PDB	3912mAh, 60Wh, 15.44Vdc

4. The antenna information is listed as below.

WLAN Antenna							
Ant. Type	Manufacturer	Parts Number		Antenna Gain (dBi)			
				BT/WLAN 2.4 GHz	WLAN 5.15~5.35 GHz	WLAN 5.47~5.725 GHz	WLAN 5.725~5.85 GHz
PIFA	YAGEO Corporation	Main	DC33002G400 (ANTA0LC13952WLAN1)	0.51	1.09	2.36	1.31
		Aux.	DC33002G400 (ANTA0AC13952WLAN1)	0.91	-2.68	-1.39	-1.89
PIFA	MAG.LAYERS Scientific-technics co, LTD	Main	PCA-8020-25GC7-A1 (DC33002G500)	-0.86	0.89	-0.54	-0.62
		Aux.	PCA-8020-25GC7-A1 (DC33002G500)	0.89	0.05	-0.12	-0.53

5. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible
6. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

For 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	58	5290

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

Channel	Frequency (MHz)
50	5250

For 5500 ~ 5720 MHz

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

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

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

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

3 channels are provided for 802.11ac (VHT80):

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

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

Channel	Frequency (MHz)
114	5570

For 5745 ~ 5825 MHz:

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

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

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

Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795

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

Channel	Frequency (MHz)
155	5775

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE≥1G	RE<1G	PLC	Power	
-	√	√	√	√	-

Where **RE≥1G**: Radiated Emission above 1 GHz

RE<1G: Radiated Emission below 1 GHz

PLC: Power Line Conducted Emission

Power: Maximum Output Power Measurement

Note: "-" means no effect.

Note: For radiated emission (below 1GHz) and power line conducted emission test items chosen the worst maximum power.

Radiated Emission Test (Above 1 GHz):

- ☒ 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).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5180-5320	802.11a	36 to 64	36, 40, 48, 52, 56, 64	OFDM	BPSK	6.0
		802.11ax (HE20)	36 to 64	36, 40, 48, 52, 56, 64	OFDMA	BPSK	HE0
		802.11ax (HE40)	38 to 62	38, 46, 54, 62	OFDMA	BPSK	HE0
		802.11ax (HE80)	42 to 58	42, 58	OFDMA	BPSK	HE0
		802.11ax (HE160)	50	50	OFDMA	BPSK	HE0
	5500-5720	802.11a	100 to 144	100, 120, 140, 144	OFDM	BPSK	6.0
		802.11ax (HE20)	100 to 144	100, 120, 140, 144	OFDMA	BPSK	HE0
		802.11ax (HE40)	102 to 134	102, 118, 134, 142	OFDMA	BPSK	HE0
		802.11ax (HE80)	106 to 138	106, 122, 138	OFDMA	BPSK	HE0
		802.11ax (HE160)	114	114	OFDMA	BPSK	HE0
	5745-5825	802.11a	149 to 165	149, 157, 165	OFDM	BPSK	6.0
		802.11ax (HE20)	149 to 165	149, 157, 165	OFDMA	BPSK	HE0
		802.11ax (HE40)	151 to 159	151, 159	OFDMA	BPSK	HE0
		802.11ax (HE80)	155	155	OFDMA	BPSK	HE0

Radiated Emission Test (Below 1 GHz):

- ☒ 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).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5500-5720	802.11ax (HE40)	102 to 134	102	OFDMA	BPSK	HE0

Power Line Conducted Emission Test:

- ☒ 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).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5500-5720	802.11ax (HE40)	102 to 134	102	OFDMA	BPSK	HE0

Maximum Output Power Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ 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).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5180-5320	802.11a	36 to 64	36, 40, 48, 52, 56, 64	OFDM	BPSK	6.0
		802.11n (HT20)	36 to 64	36, 40, 48, 52, 56, 64	OFDM	BPSK	HT0/HT8
		802.11n (HT40)	38 to 62	38, 46, 54, 62	OFDM	BPSK	HT0/HT8
		802.11ac (VHT80)	42 to 58	42, 58	OFDM	BPSK	VHT0
		802.11ac (HE160)	50	50	OFDM	BPSK	VHT0
		802.11ax (HE20)	36 to 64	36, 40, 48, 52, 56, 64	OFDMA	BPSK	HE0
		802.11ax (HE40)	38 to 62	38, 46, 54, 62	OFDMA	BPSK	HE0
		802.11ax (HE80)	42 to 58	42, 58	OFDMA	BPSK	HE0
		802.11ax (HE160)	50	50	OFDMA	BPSK	HE0
	5500-5720	802.11a	100 to 144	100, 120, 140, 144	OFDM	BPSK	6.0
		802.11n (HT20)	100 to 144	100, 120, 140, 144	OFDM	BPSK	HT0/HT8
		802.11n (HT40)	102 to 142	102, 118, 134, 142	OFDM	BPSK	HT0/HT8
		802.11ac (VHT80)	106 to 138	106, 122, 138	OFDM	BPSK	VHT0
		802.11ac (VHT160)	114	114	OFDM	BPSK	VHT0
		802.11ax (HE20)	100 to 144	100, 120, 140, 144	OFDMA	BPSK	HE0
		802.11ax (HE40)	102 to 142	102, 118, 134, 142	OFDMA	BPSK	HE0
		802.11ax (HE80)	106 to 138	106, 122, 138	OFDMA	BPSK	HE0
		802.11ax (HE160)	114	114	OFDMA	BPSK	HE0
	5745-5825	802.11a	149 to 165	149, 157, 165	OFDM	BPSK	6.0
		802.11n (HT20)	149 to 165	149, 157, 165	OFDM	BPSK	HT0/HT8
		802.11n (HT40)	151 to 159	151, 159	OFDM	BPSK	HT0/HT8
		802.11ac (VHT80)	155	155	OFDM	BPSK	VHT0
		802.11ax (HE20)	149 to 165	149, 157, 165	OFDMA	BPSK	HE0
		802.11ax (HE40)	151 to 159	151, 159	OFDMA	BPSK	HE0
		802.11ax (HE80)	155	155	OFDMA	BPSK	HE0

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Adair Peng, Titan Hsu
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Titan Hsu
PLC	25 deg. C, 65 % RH	120 Vac, 60 Hz	Titan Hsu
Power	25 deg. C, 65 % RH	120 Vac, 60 Hz	Titan Hsu

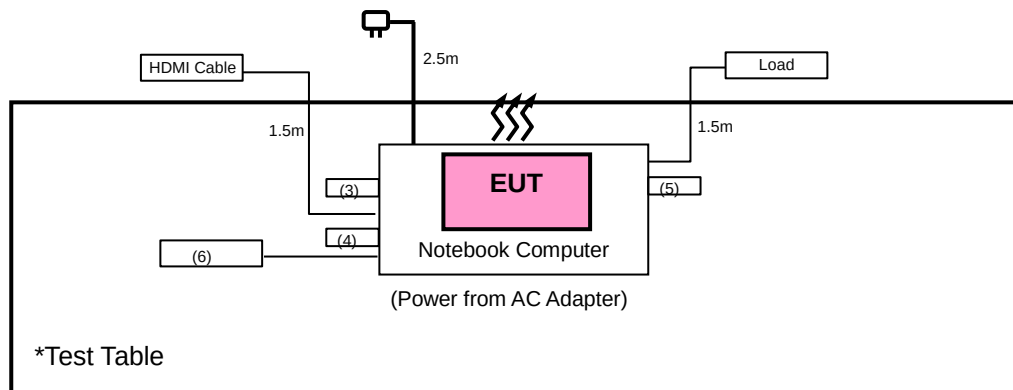
3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
1.	Notebook Computer	Lenovo	ThinkBook 14 G2 ARE*****	NA	NA	-
2.	Adapter	Lenovo	ADLX65YAC3D	NA	NA	-
3.	Type-C USB	SanDisk	SDDDC3-320G	NA	NA	-
4.	USB 2.0 FLASH	v250W	03	NA	NA	-
5.	USB 2.0 FLASH	v250W	05	NA	NA	-
6.	Earphone	Apple	NA	NA	NA	-

Note: All power cords of the above support units are non-shielded (1.8m).

3.3.1 Configuration of System under Test



3.4 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:

FCC Part 15, Subpart E (15.407)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

Note:

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.

4.1.2 Limits of Unwanted Emission Out of the Restricted Bands

Applicable To		Limit	
789033 D02 General UNII Test Procedures New Rules v02r01		Field Strength at 3 m	
		PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	☒ 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}
	☐ 15.407(b)(4)(ii)	Emission limits in section 15.247(d)	

^{*1} beyond 75 MHz or more above of the band edge.
^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.
^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note:

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

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

4.1.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver ROHDE & SCHWARZ	ESR3	102579	Jul. 07, 2020	Jul. 06, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jun. 09, 2020	Jun. 08, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Nov. 11, 2019	Nov. 10, 2020
HORN Antenna SCHWARZBECK	9120D	209	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
Loop Antenna EMCI	EM-6879	269	Sep. 16, 2019	Sep. 15, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 20, 2019	Aug. 19, 2020
Preamplifier Agilent (Above 1GHz)	8449B	3008A02465	Mar. 23, 2020	Mar. 22, 2021
Preamplifier EMCI (18GHZ-40GHZ)	EMC184045B	980175	Sep. 05, 2019	Sep. 04, 2020
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH3-01	Aug. 20, 2019	Aug. 19, 2020
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 20, 2019	Aug. 19, 2020
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM- SM-8000	Cable-CH3-03 (309224+170907)	Aug. 20, 2019	Aug. 19, 2020
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55 190004/MY551900 07/MY55210005	Jul. 13, 2020	Jul. 12, 2021

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.

4.1.4 Test Procedures

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 a 3 meter chamber room. 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.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated Emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) 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.
- f. The test-receiver system was set to peak and average detected 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.

Note:

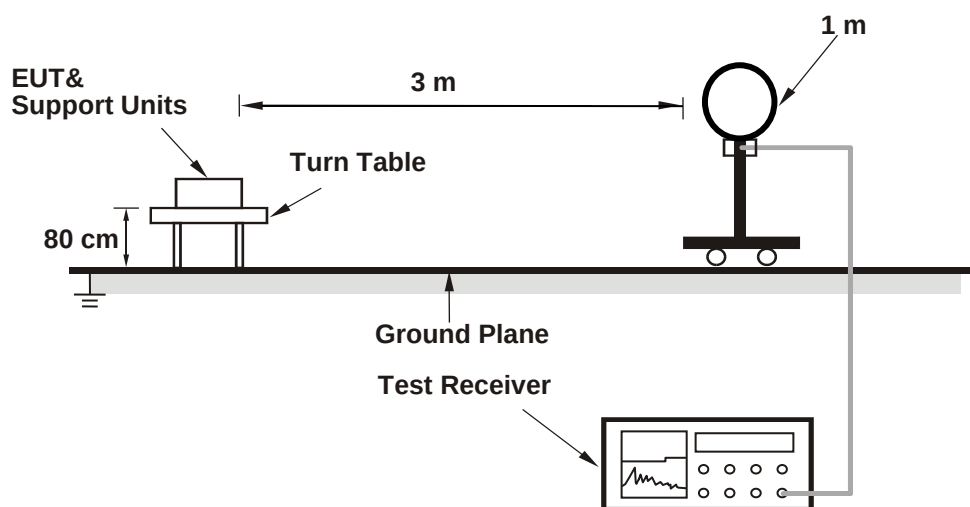
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.5 Deviation from Test Standard

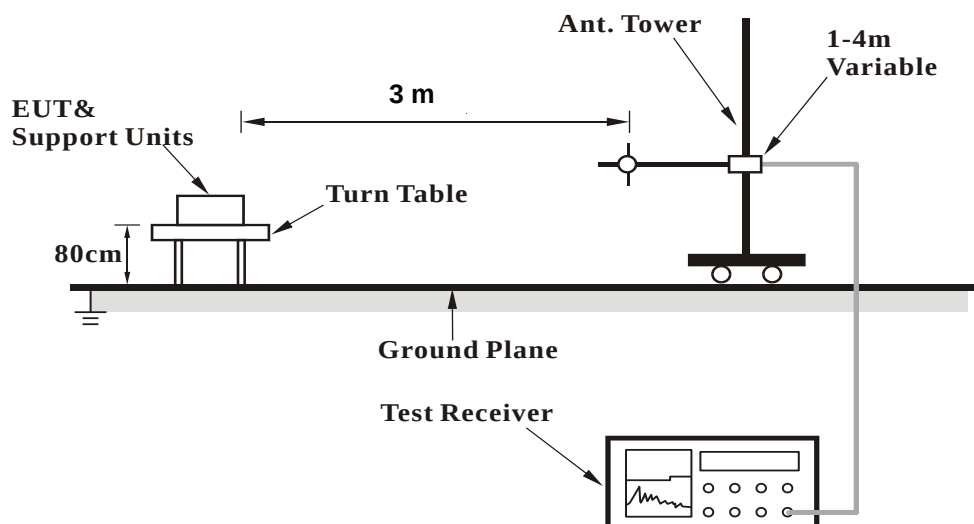
No deviation.

4.1.6 Test Setup

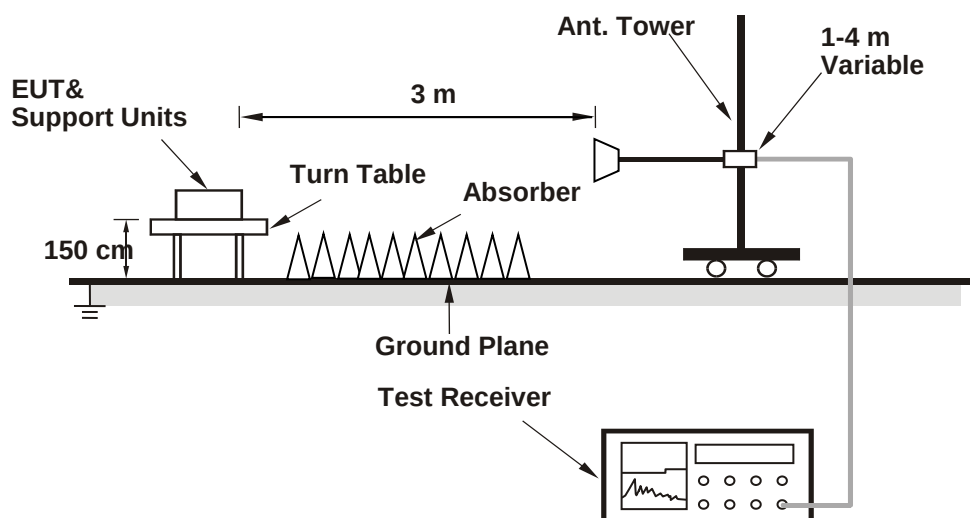
<Radiated Emission below 30 MHz>



<Radiated Emission 30 MHz to 1 GHz>



<Radiated Emission above 1 GHz>



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

4.1.7 EUT Operating Conditions

- Placed the EUT on a testing table.
- Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.1.8 Test Results

ABOVE 1GHz DATA

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	56.0 PK	74.0	-18.0	3.76 H	50	52.5	3.5
2	5150.00	42.4 AV	54.0	-11.6	3.76 H	50	38.9	3.5
3	*5180.00	109.0 PK			3.76 H	50	69.7	39.3
4	*5180.00	95.9 AV			3.76 H	50	56.6	39.3
5	#10360.00	58.7 PK	68.2	-9.5	1.97 H	199	41.8	16.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.7 PK	74.0	-18.3	1.29 V	130	52.2	3.5
2	5150.00	41.9 AV	54.0	-12.1	1.29 V	130	38.4	3.5
3	*5180.00	105.9 PK			1.29 V	130	66.6	39.3
4	*5180.00	92.7 AV			1.29 V	130	53.4	39.3
5	#10360.00	59.5 PK	68.2	-8.7	1.91 V	177	42.6	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	108.9 PK			4.00 H	54	69.6	39.3
2	*5200.00	95.8 AV			4.00 H	54	56.5	39.3
3	#10400.00	59.2 PK	68.2	-9.0	2.03 H	203	42.1	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	105.6 PK			1.39 V	135	66.3	39.3
2	*5200.00	92.5 AV			1.39 V	135	53.2	39.3
3	#10400.00	59.4 PK	68.2	-8.8	1.92 V	199	42.3	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	108.3 PK			3.93 H	54	69.2	39.1
2	*5240.00	95.5 AV			3.93 H	54	56.4	39.1
3	5350.00	55.1 PK	74.0	-18.9	3.93 H	54	51.5	3.6
4	5350.00	41.3 AV	54.0	-12.7	3.93 H	54	37.7	3.6
5	#10480.00	59.6 PK	68.2	-8.6	1.98 H	193	42.0	17.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	104.2 PK			1.47 V	132	65.1	39.1
2	*5240.00	91.4 AV			1.47 V	132	52.3	39.1
3	5350.00	54.6 PK	74.0	-19.4	1.47 V	132	51.0	3.6
4	5350.00	41.3 AV	54.0	-12.7	1.47 V	132	37.7	3.6
5	#10480.00	59.4 PK	68.2	-8.8	2.03 V	188	41.8	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.8 PK	74.0	-18.2	3.91 H	49	52.3	3.5
2	5150.00	41.8 AV	54.0	-12.2	3.91 H	49	38.3	3.5
3	*5260.00	107.0 PK			3.91 H	49	68.0	39.0
4	*5260.00	96.7 AV			3.91 H	49	57.7	39.0
5	#10520.00	60.6 PK	68.2	-7.6	1.89 H	186	43.0	17.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.2 PK	74.0	-18.8	1.47 V	133	51.7	3.5
2	5150.00	41.5 AV	54.0	-12.5	1.47 V	133	38.0	3.5
3	*5260.00	104.9 PK			1.47 V	133	65.9	39.0
4	*5260.00	94.7 AV			1.47 V	133	55.7	39.0
5	#10520.00	60.3 PK	68.2	-7.9	2.05 V	199	42.7	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 56	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5280.00	106.5 PK			3.87 H	59	67.4	39.1
2	*5280.00	95.7 AV			3.87 H	59	56.6	39.1
3	#10560.00	60.5 PK	68.2	-7.7	1.99 H	187	42.9	17.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5280.00	104.3 PK			1.50 V	139	65.2	39.1
2	*5280.00	93.6 AV			1.50 V	139	54.5	39.1
3	#10560.00	60.4 PK	68.2	-7.8	2.10 V	193	42.8	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	106.5 PK			3.81 H	50	67.3	39.2
2	*5320.00	95.8 AV			3.81 H	50	56.6	39.2
3	5350.00	55.1 PK	74.0	-18.9	3.81 H	50	51.5	3.6
4	5350.00	41.2 AV	54.0	-12.8	3.81 H	50	37.6	3.6
5	10640.00	59.1 PK	74.0	-14.9	1.92 H	180	41.5	17.6
6	10640.00	45.9 AV	54.0	-8.1	1.92 H	180	28.3	17.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	104.3 PK			1.40 V	136	65.1	39.2
2	*5320.00	93.7 AV			1.40 V	136	54.5	39.2
3	5350.00	54.6 PK	74.0	-19.4	1.40 V	136	51.0	3.6
4	5350.00	40.9 AV	54.0	-13.1	1.40 V	136	37.3	3.6
5	10640.00	58.8 PK	74.0	-15.2	2.07 V	197	41.2	17.6
6	10640.00	45.6 AV	54.0	-8.4	2.07 V	197	28.0	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.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	54.8 PK	74.0	-19.2	3.90 H	41	51.0	3.8
2	5460.00	42.3 AV	54.0	-11.7	3.90 H	41	38.5	3.8
3	#5470.00	55.3 PK	68.2	-12.9	3.90 H	41	51.5	3.8
4	*5500.00	105.3 PK			3.90 H	41	65.6	39.7
5	*5500.00	94.7 AV			3.90 H	41	55.0	39.7
6	11000.00	60.2 PK	74.0	-13.8	2.02 H	192	41.5	18.7
7	11000.00	47.5 AV	54.0	-6.5	2.02 H	192	28.8	18.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.1 PK	74.0	-18.9	2.21 V	200	51.3	3.8
2	5460.00	42.3 AV	54.0	-11.7	2.21 V	200	38.5	3.8
3	#5470.00	55.8 PK	68.2	-12.4	2.21 V	200	52.0	3.8
4	*5500.00	103.5 PK			2.21 V	200	63.8	39.7
5	*5500.00	90.9 AV			2.21 V	200	51.2	39.7
6	11000.00	60.6 PK	74.0	-13.4	2.05 V	213	41.9	18.7
7	11000.00	47.5 AV	54.0	-6.5	2.05 V	213	28.8	18.7

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 120	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	104.2 PK			3.94 H	42	64.4	39.8
2	*5600.00	93.8 AV			3.94 H	42	54.0	39.8
3	#5725.00	55.2 PK	68.2	-13.0	3.94 H	42	51.0	4.2
4	11200.00	60.0 PK	74.0	-14.0	1.99 H	205	41.5	18.5
5	11200.00	47.2 AV	54.0	-6.8	1.99 H	205	28.7	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	108.7 PK			2.80 V	332	68.9	39.8
2	*5600.00	95.5 AV			2.80 V	332	55.7	39.8
3	#5725.00	56.4 PK	68.2	-11.8	2.80 V	332	52.2	4.2
4	11200.00	60.4 PK	74.0	-13.6	1.92 V	201	41.9	18.5
5	11200.00	47.4 AV	54.0	-6.6	1.92 V	201	28.9	18.5

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	103.1 PK			3.94 H	279	63.3	39.8
2	*5700.00	93.0 AV			3.94 H	279	53.2	39.8
3	#5725.00	55.2 PK	68.2	-13.0	3.94 H	279	51.0	4.2
4	11400.00	59.6 PK	74.0	-14.4	2.03 H	199	41.5	18.1
5	11400.00	47.0 AV	54.0	-7.0	2.03 H	199	28.9	18.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	107.3 PK			2.82 V	332	67.5	39.8
2	*5700.00	96.8 AV			2.82 V	332	57.0	39.8
3	#5725.00	56.0 PK	68.2	-12.2	2.82 V	332	51.8	4.2
4	11400.00	59.9 PK	74.0	-14.1	2.05 V	197	41.8	18.1
5	11400.00	47.2 AV	54.0	-6.8	2.05 V	197	29.1	18.1

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	54.6 PK	74.0	-19.4	3.97 H	282	50.8	3.8
2	5460.00	42.8 AV	54.0	-11.2	3.97 H	282	39.0	3.8
3	#5470.00	55.1 PK	68.2	-13.1	3.97 H	282	51.3	3.8
4	*5720.00	104.3 PK			3.97 H	282	64.3	40.0
5	*5720.00	93.6 AV			3.97 H	282	53.6	40.0
6	#5850.00	56.3 PK	68.2	-11.9	3.97 H	282	51.6	4.7
7	11440.00	59.9 PK	74.0	-14.1	2.15 H	201	41.8	18.1
8	11440.00	47.1 AV	54.0	-6.9	2.15 H	201	29.0	18.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.0 PK	74.0	-19.0	2.80 V	329	51.2	3.8
2	5460.00	42.7 AV	54.0	-11.3	2.80 V	329	38.9	3.8
3	#5470.00	55.3 PK	68.2	-12.9	2.80 V	329	51.5	3.8
4	*5720.00	107.5 PK			2.80 V	329	67.5	40.0
5	*5720.00	96.9 AV			2.80 V	329	56.9	40.0
6	#5850.00	56.0 PK	68.2	-12.2	2.80 V	329	51.3	4.7
7	11440.00	59.8 PK	74.0	-14.2	2.02 V	212	41.7	18.1
8	11440.00	46.9 AV	54.0	-7.1	2.02 V	212	28.8	18.1

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	105.9 PK			3.83 H	71	65.9	40.0
2	*5745.00	95.3 AV			3.83 H	71	55.3	40.0
3	11490.00	60.3 PK	74.0	-13.7	2.15 H	222	42.0	18.3
4	11490.00	46.0 AV	54.0	-8.0	2.15 H	222	27.7	18.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	107.8 PK			2.81 V	332	67.8	40.0
2	*5745.00	97.3 AV			2.81 V	332	57.3	40.0
3	11490.00	60.6 PK	74.0	-13.4	1.87 V	333	42.3	18.3
4	11490.00	46.3 AV	54.0	-7.7	1.87 V	333	28.0	18.3

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.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	105.8 PK			3.80 H	70	65.6	40.2
2	*5785.00	95.4 AV			3.80 H	70	55.2	40.2
3	11570.00	60.1 PK	74.0	-13.9	2.22 H	219	42.2	17.9
4	11570.00	45.8 AV	54.0	-8.2	2.22 H	219	27.9	17.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	108.5 PK			2.91 V	331	68.3	40.2
2	*5785.00	97.5 AV			2.91 V	331	57.3	40.2
3	11570.00	60.4 PK	74.0	-13.6	1.91 V	309	42.5	17.9
4	11570.00	46.6 AV	54.0	-7.4	1.91 V	309	28.7	17.9

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.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	105.4 PK			3.55 H	63	65.0	40.4
2	*5825.00	95.2 AV			3.55 H	63	54.8	40.4
3	11650.00	60.1 PK	74.0	-13.9	2.23 H	230	42.2	17.9
4	11650.00	45.7 AV	54.0	-8.3	2.23 H	230	27.8	17.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	108.2 PK			2.90 V	332	67.8	40.4
2	*5825.00	97.6 AV			2.90 V	332	57.2	40.4
3	11650.00	60.3 PK	74.0	-13.7	1.85 V	309	42.4	17.9
4	11650.00	46.2 AV	54.0	-7.8	1.85 V	309	28.3	17.9

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.

802.11ax (HE20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.5 PK	74.0	-18.5	4.00 H	57	52.0	3.5
2	5150.00	41.8 AV	54.0	-12.2	4.00 H	57	38.3	3.5
3	*5180.00	108.9 PK			4.00 H	57	69.6	39.3
4	*5180.00	95.2 AV			4.00 H	57	55.9	39.3
5	#10360.00	59.4 PK	68.2	-8.8	1.93 H	203	42.5	16.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	56.9 PK	74.0	-17.1	2.53 V	319	53.4	3.5
2	5150.00	42.5 AV	54.0	-11.5	2.53 V	319	39.0	3.5
3	*5180.00	110.2 PK			2.53 V	319	70.9	39.3
4	*5180.00	97.2 AV			2.53 V	319	57.9	39.3
5	#10360.00	59.6 PK	68.2	-8.6	2.03 V	174	42.7	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	107.6 PK			3.98 H	56	68.3	39.3
2	*5200.00	94.5 AV			3.98 H	56	55.2	39.3
3	#10400.00	59.4 PK	68.2	-8.8	1.89 H	205	42.3	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	112.5 PK			2.48 V	290	73.2	39.3
2	*5200.00	99.3 AV			2.48 V	290	60.0	39.3
3	#10400.00	59.5 PK	68.2	-8.7	2.13 V	188	42.4	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	107.0 PK			3.99 H	33	67.9	39.1
2	*5240.00	94.0 AV			3.99 H	33	54.9	39.1
3	5350.00	55.3 PK	74.0	-18.7	3.99 H	33	51.7	3.6
4	5350.00	41.6 AV	54.0	-12.4	3.99 H	33	38.0	3.6
5	#10480.00	59.9 PK	68.2	-8.3	1.99 H	193	42.3	17.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	109.1 PK			2.53 V	289	70.0	39.1
2	*5240.00	95.3 AV			2.53 V	289	56.2	39.1
3	5350.00	55.8 PK	74.0	-18.2	2.53 V	289	52.2	3.6
4	5350.00	41.9 AV	54.0	-12.1	2.53 V	289	38.3	3.6
5	#10480.00	60.0 PK	68.2	-8.2	2.15 V	171	42.4	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	54.6 PK	74.0	-19.4	3.88 H	51	51.1	3.5
2	5150.00	41.5 AV	54.0	-12.5	3.88 H	51	38.0	3.5
3	*5260.00	109.3 PK			3.88 H	51	70.3	39.0
4	*5260.00	96.7 AV			3.88 H	51	57.7	39.0
5	#10520.00	59.6 PK	68.2	-8.6	1.88 H	223	42.0	17.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.1 PK	74.0	-18.9	2.57 V	291	51.6	3.5
2	5150.00	41.7 AV	54.0	-12.3	2.57 V	291	38.2	3.5
3	*5260.00	111.8 PK			2.57 V	291	72.8	39.0
4	*5260.00	99.1 AV			2.57 V	291	60.1	39.0
5	#10520.00	59.8 PK	68.2	-8.4	2.03 V	193	42.2	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 56	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5280.00	108.7 PK			2.89 H	50	69.6	39.1
2	*5280.00	95.7 AV			2.89 H	50	56.6	39.1
3	#10560.00	59.6 PK	68.2	-8.6	1.85 H	219	42.0	17.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5280.00	111.1 PK			2.72 V	299	72.0	39.1
2	*5280.00	98.2 AV			2.72 V	299	59.1	39.1
3	#10560.00	59.7 PK	68.2	-8.5	2.12 V	188	42.1	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	109.7 PK			3.84 H	33	70.5	39.2
2	*5320.00	96.5 AV			3.84 H	33	57.3	39.2
3	5350.00	56.0 PK	74.0	-18.0	3.84 H	33	52.4	3.6
4	5350.00	42.3 AV	54.0	-11.7	3.84 H	33	38.7	3.6
5	10640.00	59.3 PK	74.0	-14.7	2.21 H	194	41.7	17.6
6	10640.00	45.8 AV	54.0	-8.2	2.21 H	194	28.2	17.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	111.2 PK			2.74 V	299	72.0	39.2
2	*5320.00	98.5 AV			2.74 V	299	59.3	39.2
3	5350.00	55.4 PK	74.0	-18.6	2.74 V	299	51.8	3.6
4	5350.00	42.3 AV	54.0	-11.7	2.74 V	299	38.7	3.6
5	10640.00	59.4 PK	74.0	-14.6	2.23 V	193	41.8	17.6
6	10640.00	45.7 AV	54.0	-8.3	2.23 V	193	28.1	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.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	54.8 PK	74.0	-19.2	3.23 H	62	51.0	3.8
2	5460.00	42.3 AV	54.0	-11.7	3.23 H	62	38.5	3.8
3	#5470.00	55.6 PK	68.2	-12.6	3.23 H	62	51.8	3.8
4	*5500.00	108.8 PK			3.23 H	62	69.1	39.7
5	*5500.00	96.1 AV			3.23 H	62	56.4	39.7
6	11000.00	60.5 PK	74.0	-13.5	2.05 H	192	41.8	18.7
7	11000.00	47.6 AV	54.0	-6.4	2.05 H	192	28.9	18.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.1 PK	74.0	-18.9	1.07 V	156	51.3	3.8
2	5460.00	41.5 AV	54.0	-12.5	1.07 V	156	37.7	3.8
3	#5470.00	54.7 PK	68.2	-13.5	1.07 V	156	50.9	3.8
4	*5500.00	107.0 PK			1.07 V	156	67.3	39.7
5	*5500.00	94.0 AV			1.07 V	156	54.3	39.7
6	11000.00	61.0 PK	74.0	-13.0	2.53 V	158	42.3	18.7
7	11000.00	47.6 AV	54.0	-6.4	2.53 V	158	28.9	18.7

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 120	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	110.2 PK			3.17 H	60	70.4	39.8
2	*5600.00	96.8 AV			3.17 H	60	57.0	39.8
3	#5725.00	55.5 PK	68.2	-12.7	3.17 H	60	51.3	4.2
4	11200.00	60.3 PK	74.0	-13.7	2.05 H	211	41.8	18.5
5	11200.00	47.5 AV	54.0	-6.5	2.05 H	211	29.0	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	108.4 PK			1.07 V	155	68.6	39.8
2	*5600.00	91.6 AV			1.07 V	155	51.8	39.8
3	#5725.00	56.4 PK	68.2	-11.8	1.07 V	155	52.2	4.2
4	11200.00	59.9 PK	74.0	-14.1	1.52 V	138	41.4	18.5
5	11200.00	45.7 AV	54.0	-8.3	1.52 V	138	27.2	18.5

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	110.1 PK			3.19 H	60	70.3	39.8
2	*5700.00	97.0 AV			3.19 H	60	57.2	39.8
3	#5725.00	55.5 PK	68.2	-12.7	3.19 H	60	51.3	4.2
4	11400.00	59.9 PK	74.0	-14.1	2.05 H	213	41.8	18.1
5	11400.00	47.2 AV	54.0	-6.8	2.05 H	213	29.1	18.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	108.4 PK			1.04 V	154	68.6	39.8
2	*5700.00	93.6 AV			1.04 V	154	53.8	39.8
3	#5725.00	59.9 PK	68.2	-8.3	1.04 V	154	55.7	4.2
4	11400.00	60.6 PK	74.0	-13.4	2.65 V	153	42.5	18.1
5	11400.00	46.6 AV	54.0	-7.4	2.65 V	153	28.5	18.1

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	54.6 PK	74.0	-19.4	3.35 H	60	50.8	3.8
2	5460.00	42.6 AV	54.0	-11.4	3.35 H	60	38.8	3.8
3	#5470.00	55.3 PK	68.2	-12.9	3.35 H	60	51.5	3.8
4	*5720.00	110.1 PK			3.35 H	60	70.1	40.0
5	*5720.00	96.9 AV			3.35 H	60	56.9	40.0
6	#5850.00	55.9 PK	68.2	-12.3	3.35 H	60	51.2	4.7
7	11440.00	59.9 PK	74.0	-14.1	2.02 H	207	41.8	18.1
8	11440.00	46.9 AV	54.0	-7.1	2.02 H	207	28.8	18.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.2 PK	74.0	-18.8	1.15 V	156	51.4	3.8
2	5460.00	41.5 AV	54.0	-12.5	1.15 V	156	37.7	3.8
3	#5470.00	54.5 PK	68.2	-13.7	1.15 V	156	50.7	3.8
4	*5720.00	108.0 PK			1.15 V	156	68.0	40.0
5	*5720.00	90.0 AV			1.15 V	156	50.0	40.0
6	#5850.00	56.4 PK	68.2	-11.8	1.15 V	156	51.7	4.7
7	11440.00	60.2 PK	74.0	-13.8	2.54 V	137	42.1	18.1
8	11440.00	46.8 AV	54.0	-7.2	2.54 V	137	28.7	18.1

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	110.9 PK			3.30 H	57	70.9	40.0
2	*5745.00	97.6 AV			3.30 H	57	57.6	40.0
3	11490.00	60.6 PK	74.0	-13.4	2.23 H	293	42.3	18.3
4	11490.00	46.5 AV	54.0	-7.5	2.23 H	293	28.2	18.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	112.0 PK			3.48 V	319	72.0	40.0
2	*5745.00	98.7 AV			3.48 V	319	58.7	40.0
3	11490.00	60.8 PK	74.0	-13.2	1.99 V	263	42.5	18.3
4	11490.00	46.6 AV	54.0	-7.4	1.99 V	263	28.3	18.3

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.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	109.5 PK			3.33 H	60	69.3	40.2
2	*5785.00	97.4 AV			3.33 H	60	57.2	40.2
3	11570.00	60.0 PK	74.0	-14.0	2.09 H	288	42.1	17.9
4	11570.00	45.9 AV	54.0	-8.1	2.09 H	288	28.0	17.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	112.0 PK			2.45 V	320	71.8	40.2
2	*5785.00	98.5 AV			2.45 V	320	58.3	40.2
3	11570.00	60.2 PK	74.0	-13.8	2.09 V	255	42.3	17.9
4	11570.00	46.0 AV	54.0	-8.0	2.09 V	255	28.1	17.9

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.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	109.3 PK			3.43 H	51	68.9	40.4
2	*5825.00	95.7 AV			3.43 H	51	55.3	40.4
3	11650.00	60.2 PK	74.0	-13.8	2.36 H	297	42.3	17.9
4	11650.00	46.2 AV	54.0	-7.8	2.36 H	297	28.3	17.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	112.3 PK			2.60 V	324	71.9	40.4
2	*5825.00	98.9 AV			2.60 V	324	58.5	40.4
3	11650.00	60.5 PK	74.0	-13.5	1.87 V	269	42.6	17.9
4	11650.00	46.4 AV	54.0	-7.6	1.87 V	269	28.5	17.9

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.

802.11ax (HE40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.0 PK	74.0	-15.0	4.00 H	58	55.5	3.5
2	5150.00	45.5 AV	54.0	-8.5	4.00 H	58	42.0	3.5
3	*5190.00	107.9 PK			4.00 H	58	68.6	39.3
4	*5190.00	94.5 AV			4.00 H	58	55.2	39.3
5	#10380.00	59.4 PK	68.2	-8.8	2.13 H	209	42.4	17.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.2 PK	74.0	-14.8	2.40 V	291	55.7	3.5
2	5150.00	45.0 AV	54.0	-9.0	2.40 V	291	41.5	3.5
3	*5190.00	109.3 PK			2.40 V	291	70.0	39.3
4	*5190.00	95.1 AV			2.40 V	291	55.8	39.3
5	#10380.00	59.5 PK	68.2	-8.7	1.93 V	182	42.5	17.0

REMARKS:

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

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	106.8 PK			3.91 H	55	67.7	39.1
2	*5230.00	93.8 AV			3.91 H	55	54.7	39.1
3	5350.00	55.0 PK	74.0	-19.0	3.91 H	55	51.4	3.6
4	5350.00	41.3 AV	54.0	-12.7	3.91 H	55	37.7	3.6
5	#10460.00	59.9 PK	68.2	-8.3	1.98 H	193	42.5	17.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	108.4 PK			2.58 V	289	69.3	39.1
2	*5230.00	95.1 AV			2.58 V	289	56.0	39.1
3	5350.00	55.3 PK	74.0	-18.7	2.58 V	289	51.7	3.6
4	5350.00	41.8 AV	54.0	-12.2	2.58 V	289	38.2	3.6
5	#10460.00	60.1 PK	68.2	-8.1	2.23 V	193	42.7	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	54.8 PK	74.0	-19.2	3.84 H	59	51.3	3.5
2	5150.00	41.6 AV	54.0	-12.4	3.84 H	59	38.1	3.5
3	*5270.00	107.0 PK			3.84 H	59	67.9	39.1
4	*5270.00	93.8 AV			3.84 H	59	54.7	39.1
5	#10540.00	60.0 PK	68.2	-8.2	1.93 H	209	42.3	17.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.2 PK	74.0	-18.8	2.56 V	294	51.7	3.5
2	5150.00	41.8 AV	54.0	-12.2	2.56 V	294	38.3	3.5
3	*5270.00	109.0 PK			2.56 V	294	69.9	39.1
4	*5270.00	95.1 AV			2.56 V	294	56.0	39.1
5	#10540.00	60.2 PK	68.2	-8.0	2.17 V	195	42.5	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	104.8 PK			3.83 H	35	65.6	39.2
2	*5310.00	91.4 AV			3.83 H	35	52.2	39.2
3	5350.00	55.7 PK	74.0	-18.3	3.83 H	35	52.1	3.6
4	5350.00	42.4 AV	54.0	-11.6	3.83 H	35	38.8	3.6
5	10620.00	59.2 PK	74.0	-14.8	1.87 H	217	41.6	17.6
6	10620.00	45.6 AV	54.0	-8.4	1.87 H	217	28.0	17.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	107.3 PK			2.56 V	286	68.1	39.2
2	*5310.00	94.2 AV			2.56 V	286	55.0	39.2
3	5350.00	56.1 PK	74.0	-17.9	2.56 V	286	52.5	3.6
4	5350.00	42.6 AV	54.0	-11.4	2.56 V	286	39.0	3.6
5	10620.00	59.5 PK	74.0	-14.5	1.98 V	188	41.9	17.6
6	10620.00	45.9 AV	54.0	-8.1	1.98 V	188	28.3	17.6

REMARKS:

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

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	59.7 PK	74.0	-14.3	3.65 H	347	55.9	3.8
2	5460.00	45.0 AV	54.0	-9.0	3.65 H	347	41.2	3.8
3	#5470.00	60.9 PK	68.2	-7.3	3.65 H	347	57.1	3.8
4	*5510.00	107.4 PK			3.65 H	347	67.7	39.7
5	*5510.00	94.6 AV			3.65 H	347	54.9	39.7
6	11020.00	60.3 PK	74.0	-13.7	2.05 H	215	41.8	18.5
7	11020.00	47.5 AV	54.0	-6.5	2.05 H	215	29.0	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.1 PK	74.0	-14.9	2.42 V	321	55.3	3.8
2	5460.00	44.2 AV	54.0	-9.8	2.42 V	321	40.4	3.8
3	#5470.00	59.2 PK	68.2	-9.0	2.42 V	321	55.4	3.8
4	*5510.00	108.0 PK			2.42 V	321	68.3	39.7
5	*5510.00	95.1 AV			2.42 V	321	55.4	39.7
6	11020.00	60.8 PK	74.0	-13.2	2.56 V	138	42.3	18.5
7	11020.00	47.3 AV	54.0	-6.7	2.56 V	138	28.8	18.5

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 118	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	55.3 PK	68.2	-12.9	3.55 H	349	51.5	3.8
2	*5590.00	106.6 PK			3.55 H	349	66.9	39.7
3	*5590.00	93.5 AV			3.55 H	349	53.8	39.7
4	#5725.00	55.3 PK	68.2	-12.9	3.55 H	349	51.1	4.2
5	11180.00	60.3 PK	74.0	-13.7	2.22 H	205	42.0	18.3
6	11180.00	47.4 AV	54.0	-6.6	2.22 H	205	29.1	18.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	55.5 PK	68.2	-12.7	2.60 V	320	51.7	3.8
2	*5590.00	105.5 PK			2.60 V	320	65.8	39.7
3	*5590.00	92.1 AV			2.60 V	320	52.4	39.7
4	#5725.00	56.1 PK	68.2	-12.1	2.60 V	320	51.9	4.2
5	11180.00	58.9 PK	74.0	-15.1	2.54 V	153	40.6	18.3
6	11180.00	45.9 AV	54.0	-8.1	2.54 V	153	27.6	18.3

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	107.3 PK			3.36 H	68	67.5	39.8
2	*5670.00	94.5 AV			3.36 H	68	54.7	39.8
3	#5725.00	55.7 PK	68.2	-12.5	3.36 H	68	51.5	4.2
4	11340.00	59.9 PK	74.0	-14.1	2.05 H	215	41.7	18.2
5	11340.00	47.0 AV	54.0	-7.0	2.05 H	215	28.8	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	107.0 PK			2.85 V	321	67.2	39.8
2	*5670.00	94.5 AV			2.85 V	321	54.7	39.8
3	#5725.00	57.2 PK	68.2	-11.0	2.85 V	321	53.0	4.2
4	11340.00	61.4 PK	74.0	-12.6	2.59 V	135	43.2	18.2
5	11340.00	46.5 AV	54.0	-7.5	2.59 V	135	28.3	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	54.8 PK	74.0	-19.2	3.35 H	56	51.0	3.8
2	5460.00	42.3 AV	54.0	-11.7	3.35 H	56	38.5	3.8
3	#5470.00	55.1 PK	68.2	-13.1	3.35 H	56	51.3	3.8
4	*5710.00	107.1 PK			3.35 H	56	67.1	40.0
5	*5710.00	94.0 AV			3.35 H	56	54.0	40.0
6	#5850.00	56.2 PK	68.2	-12.0	3.35 H	56	51.5	4.7
7	11420.00	59.8 PK	74.0	-14.2	2.05 H	217	41.8	18.0
8	11420.00	46.7 AV	54.0	-7.3	2.05 H	217	28.7	18.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.0 PK	74.0	-19.0	2.49 V	153	51.2	3.8
2	5460.00	41.8 AV	54.0	-12.2	2.49 V	153	38.0	3.8
3	#5470.00	55.3 PK	68.2	-12.9	2.49 V	153	51.5	3.8
4	*5710.00	104.0 PK			2.49 V	153	64.0	40.0
5	*5710.00	90.9 AV			2.49 V	153	50.9	40.0
6	#5850.00	57.3 PK	68.2	-10.9	2.49 V	153	52.6	4.7
7	11420.00	59.5 PK	74.0	-14.5	2.58 V	135	41.5	18.0
8	11420.00	46.8 AV	54.0	-7.2	2.58 V	135	28.8	18.0

REMARKS:

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

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5755.00	107.7 PK			3.45 H	55	67.7	40.0
2	*5755.00	93.8 AV			3.45 H	55	53.8	40.0
3	11510.00	60.4 PK	74.0	-13.6	2.43 H	285	42.1	18.3
4	11510.00	46.9 AV	54.0	-7.1	2.43 H	285	28.6	18.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5755.00	109.7 PK			2.83 V	318	69.7	40.0
2	*5755.00	95.9 AV			2.83 V	318	55.9	40.0
3	11510.00	60.6 PK	74.0	-13.4	2.09 V	277	42.3	18.3
4	11510.00	47.1 AV	54.0	-6.9	2.09 V	277	28.8	18.3

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.

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	107.1 PK			3.39 H	63	66.8	40.3
2	*5795.00	93.7 AV			3.39 H	63	53.4	40.3
3	11590.00	59.8 PK	74.0	-14.2	2.39 H	299	42.0	17.8
4	11590.00	46.1 AV	54.0	-7.9	2.39 H	299	28.3	17.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	109.1 PK			2.53 V	320	68.8	40.3
2	*5795.00	95.8 AV			2.53 V	320	55.5	40.3
3	11590.00	59.9 PK	74.0	-14.1	1.97 V	282	42.1	17.8
4	11590.00	46.3 AV	54.0	-7.7	1.97 V	282	28.5	17.8

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.

802.11ax (HE80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	3.94 H	57	53.0	3.5
2	5150.00	43.0 AV	54.0	-11.0	3.94 H	57	39.5	3.5
3	*5210.00	102.3 PK			3.94 H	57	63.1	39.2
4	*5210.00	88.9 AV			3.94 H	57	49.7	39.2
5	5350.00	54.8 PK	74.0	-19.2	3.94 H	57	51.2	3.6
6	5350.00	41.6 AV	54.0	-12.4	3.94 H	57	38.0	3.6
7	#10420.00	59.0 PK	68.2	-9.2	1.88 H	197	41.7	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	58.1 PK	74.0	-15.9	2.48 V	294	54.6	3.5
2	5150.00	43.3 AV	54.0	-10.7	2.48 V	294	39.8	3.5
3	*5210.00	103.7 PK			2.48 V	294	64.5	39.2
4	*5210.00	90.2 AV			2.48 V	294	51.0	39.2
5	5350.00	55.6 PK	74.0	-18.4	2.48 V	294	52.0	3.6
6	5350.00	41.9 AV	54.0	-12.1	2.48 V	294	38.3	3.6
7	#10420.00	59.3 PK	68.2	-8.9	2.11 V	193	42.0	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.5 PK	74.0	-18.5	3.70 H	32	52.0	3.5
2	5150.00	41.8 AV	54.0	-12.2	3.70 H	32	38.3	3.5
3	*5290.00	103.7 PK			3.70 H	32	64.6	39.1
4	*5290.00	90.6 AV			3.70 H	32	51.5	39.1
5	5350.00	58.1 PK	74.0	-15.9	3.70 H	32	54.5	3.6
6	5350.00	45.4 AV	54.0	-8.6	3.70 H	32	41.8	3.6
7	#10580.00	59.8 PK	68.2	-8.4	1.99 H	193	42.1	17.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.7 PK	74.0	-18.3	2.42 V	288	52.2	3.5
2	5150.00	42.0 AV	54.0	-12.0	2.42 V	288	38.5	3.5
3	*5290.00	105.3 PK			2.42 V	288	66.2	39.1
4	*5290.00	92.3 AV			2.42 V	288	53.2	39.1
5	5350.00	58.4 PK	74.0	-15.6	2.42 V	288	54.8	3.6
6	5350.00	45.3 AV	54.0	-8.7	2.42 V	288	41.7	3.6
7	#10580.00	59.7 PK	68.2	-8.5	2.14 V	203	42.0	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	56.8 PK	74.0	-17.2	3.64 H	348	53.0	3.8
2	5460.00	43.3 AV	54.0	-10.7	3.64 H	348	39.5	3.8
3	#5470.00	57.7 PK	68.2	-10.5	3.64 H	348	53.9	3.8
4	*5530.00	101.1 PK			3.64 H	348	61.4	39.7
5	*5530.00	88.7 AV			3.64 H	348	49.0	39.7
6	#5725.00	55.8 PK	68.2	-12.4	3.64 H	348	51.6	4.2
7	11060.00	60.1 PK	74.0	-13.9	1.99 H	205	41.8	18.3
8	11060.00	47.3 AV	54.0	-6.7	1.99 H	205	29.0	18.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	57.1 PK	74.0	-16.9	1.19 V	153	53.3	3.8
2	5460.00	44.0 AV	54.0	-10.0	1.19 V	153	40.2	3.8
3	#5470.00	58.2 PK	68.2	-10.0	1.19 V	153	54.4	3.8
4	*5530.00	100.8 PK			1.19 V	153	61.1	39.7
5	*5530.00	88.2 AV			1.19 V	153	48.5	39.7
6	#5725.00	56.1 PK	68.2	-12.1	1.19 V	153	51.9	4.2
7	11060.00	60.1 PK	74.0	-13.9	2.53 V	137	41.8	18.3
8	11060.00	46.3 AV	54.0	-7.7	2.53 V	137	28.0	18.3

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	56.0 PK	74.0	-18.0	3.69 H	349	52.2	3.8
2	5460.00	42.5 AV	54.0	-11.5	3.69 H	349	38.7	3.8
3	#5470.00	56.2 PK	68.2	-12.0	3.69 H	349	52.4	3.8
4	*5610.00	102.9 PK			3.69 H	349	63.1	39.8
5	*5610.00	90.3 AV			3.69 H	349	50.5	39.8
6	#5725.00	55.7 PK	68.2	-12.5	3.69 H	349	51.5	4.2
7	11220.00	60.4 PK	74.0	-13.6	2.05 H	211	42.0	18.4
8	11220.00	47.3 AV	54.0	-6.7	2.05 H	211	28.9	18.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.6 PK	74.0	-18.4	1.19 V	154	51.8	3.8
2	5460.00	41.9 AV	54.0	-12.1	1.19 V	154	38.1	3.8
3	#5470.00	56.0 PK	68.2	-12.2	1.19 V	154	52.2	3.8
4	*5610.00	100.6 PK			1.19 V	154	60.8	39.8
5	*5610.00	88.6 AV			1.19 V	154	48.8	39.8
6	#5725.00	56.1 PK	68.2	-12.1	1.19 V	154	51.9	4.2
7	11220.00	60.3 PK	74.0	-13.7	1.19 V	154	41.9	18.4
8	11220.00	46.4 AV	54.0	-7.6	1.19 V	154	28.0	18.4

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 138	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	54.8 PK	74.0	-19.2	3.58 H	5	51.0	3.8
2	5460.00	42.6 AV	54.0	-11.4	3.58 H	5	38.8	3.8
3	#5470.00	55.3 PK	68.2	-12.9	3.58 H	5	51.5	3.8
4	*5690.00	102.6 PK			3.58 H	5	62.8	39.8
5	*5690.00	89.8 AV			3.58 H	5	50.0	39.8
6	#5850.00	56.5 PK	68.2	-11.7	3.58 H	5	51.8	4.7
7	11380.00	59.9 PK	74.0	-14.1	2.02 H	199	41.8	18.1
8	11380.00	47.2 AV	54.0	-6.8	2.02 H	199	29.1	18.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	56.1 PK	74.0	-17.9	1.28 V	111	52.3	3.8
2	5460.00	41.9 AV	54.0	-12.1	1.28 V	111	38.1	3.8
3	#5470.00	55.4 PK	68.2	-12.8	1.28 V	111	51.6	3.8
4	*5690.00	99.3 PK			1.29 V	111	59.5	39.8
5	*5690.00	87.0 AV			1.29 V	111	47.2	39.8
6	#5850.00	56.5 PK	68.2	-11.7	1.28 V	111	51.8	4.7
7	11380.00	60.5 PK	74.0	-13.5	2.50 V	125	42.4	18.1
8	11380.00	47.1 AV	54.0	-6.9	2.50 V	125	29.0	18.1

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	55.8 PK	68.2	-12.4	3.43 H	50	52.0	3.8
2	*5775.00	105.1 PK			3.43 H	50	65.0	40.1
3	*5775.00	91.4 AV			3.43 H	50	51.3	40.1
4	#5925.00	57.3 PK	68.2	-10.9	3.43 H	50	52.5	4.8
5	11550.00	60.4 PK	74.0	-13.6	2.33 H	303	42.3	18.1
6	11550.00	46.6 AV	54.0	-7.4	2.33 H	303	28.5	18.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	56.1 PK	68.2	-12.1	2.54 V	321	52.3	3.8
2	*5775.00	106.3 PK			2.54 V	321	66.2	40.1
3	*5775.00	93.4 AV			2.54 V	321	53.3	40.1
4	#5925.00	58.5 PK	68.2	-10.7	2.54 V	321	52.7	4.8
5	11550.00	60.3 PK	74.0	-13.7	2.11 V	263	42.2	18.1
6	11550.00	46.7 AV	54.0	-7.3	2.11 V	263	28.6	18.1

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.
6. " # ": The radiated frequency is out of the restricted band.

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CHANNEL	TX Channel 50	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.8 PK	74.0	-18.2	3.94 H	350	52.3	3.5
2	5150.00	42.3 AV	54.0	-11.7	3.94 H	350	38.8	3.5
3	*5250.00	97.1 PK			3.94 H	350	58.1	39.0
4	*5250.00	84.9 AV			3.94 H	350	45.9	39.0
5	5350.00	55.8 PK	74.0	-18.2	3.94 H	350	52.2	3.6
6	5350.00	42.7 AV	54.0	-11.3	3.94 H	350	39.1	3.6
7	#10500.00	59.7 PK	68.2	-8.5	2.12 H	188	42.0	17.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	56.0 PK	74.0	-18.0	2.43 V	289	52.5	3.5
2	5150.00	42.5 AV	54.0	-11.5	2.43 V	289	39.0	3.5
3	*5250.00	100.5 PK			2.43 V	289	61.5	39.0
4	*5250.00	86.9 AV			2.43 V	289	47.9	39.0
5	5350.00	56.0 PK	74.0	-18.0	2.43 V	289	52.4	3.6
6	5350.00	42.9 AV	54.0	-11.1	2.43 V	289	39.3	3.6
7	#10500.00	59.9 PK	68.2	-8.3	1.93 V	182	42.2	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 114	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	57.4 PK	74.0	-16.6	3.28 H	63	53.6	3.8
2	5460.00	43.4 AV	54.0	-10.6	3.28 H	63	39.6	3.8
3	#5470.00	58.7 PK	68.2	-9.5	3.28 H	63	54.9	3.8
4	*5570.00	98.0 PK			3.28 H	63	58.3	39.7
5	*5570.00	85.0 AV			3.28 H	63	45.3	39.7
6	#5725.00	57.8 PK	68.2	-10.4	3.28 H	63	53.6	4.2
7	11140.00	59.4 PK	74.0	-14.6	2.15 H	219	41.3	18.1
8	11140.00	46.4 AV	54.0	-7.6	2.15 H	219	28.3	18.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	60.1 PK	74.0	-13.9	2.67 V	320	56.3	3.8
2	5460.00	44.6 AV	54.0	-9.4	2.67 V	320	40.8	3.8
3	#5470.00	59.6 PK	68.2	-8.6	2.67 V	320	55.8	3.8
4	*5570.00	100.0 PK			2.67 V	320	60.3	39.7
5	*5570.00	86.3 AV			2.67 V	320	46.6	39.7
6	#5725.00	60.3 PK	68.2	-7.9	2.67 V	320	56.1	4.2
7	11140.00	59.6 PK	74.0	-14.4	2.07 V	199	41.5	18.1
8	11140.00	46.6 AV	54.0	-7.4	2.07 V	199	28.5	18.1

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.
6. " # ": The radiated frequency is out of the restricted band.

9 kHz ~ 30 MHz Data:

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

30 MHz ~ 1 GHz Worst-Case Data:

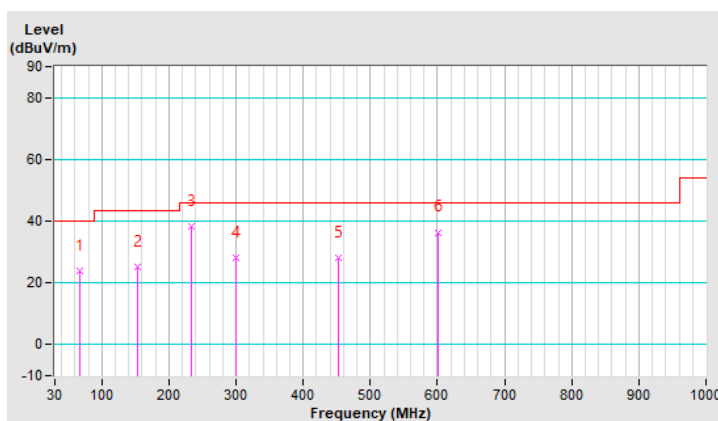
802.11ax (HE40)

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	66.55	23.8 QP	40.0	-16.2	1.50 H	6	33.8	-10.0
2	153.71	25.2 QP	43.5	-18.3	2.00 H	186	33.8	-8.6
3	232.43	38.2 QP	46.0	-7.8	1.50 H	77	49.0	-10.8
4	299.91	28.1 QP	46.0	-17.9	1.50 H	127	35.4	-7.3
5	451.74	28.1 QP	46.0	-17.9	2.00 H	13	30.7	-2.6
6	600.75	36.4 QP	46.0	-9.6	1.50 H	298	35.3	1.1

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

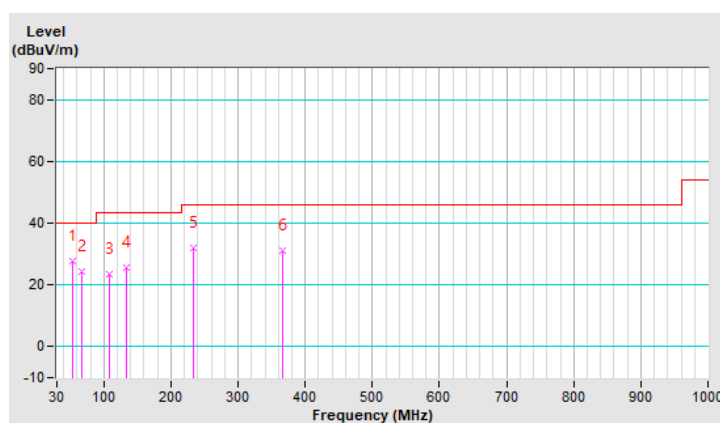


CHANNEL	TX Channel 102	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	52.49	27.7 QP	40.0	-12.3	1.50 V	275	36.5	-8.8
2	66.55	24.5 QP	40.0	-15.5	1.50 V	242	34.5	-10.0
3	107.32	23.6 QP	43.5	-19.9	1.00 V	2	35.7	-12.1
4	134.03	25.7 QP	43.5	-17.8	2.00 V	16	35.2	-9.5
5	232.43	32.0 QP	46.0	-14.0	2.00 V	342	42.8	-10.8
6	365.99	31.3 QP	46.0	-14.7	1.50 V	131	36.8	-5.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

- Note: 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.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 11, 2019	Dec. 10, 2020
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2019	Sep. 04, 2020
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 21, 2019	Feb. 20, 2020
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 22, 2019	Aug. 21, 2020
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

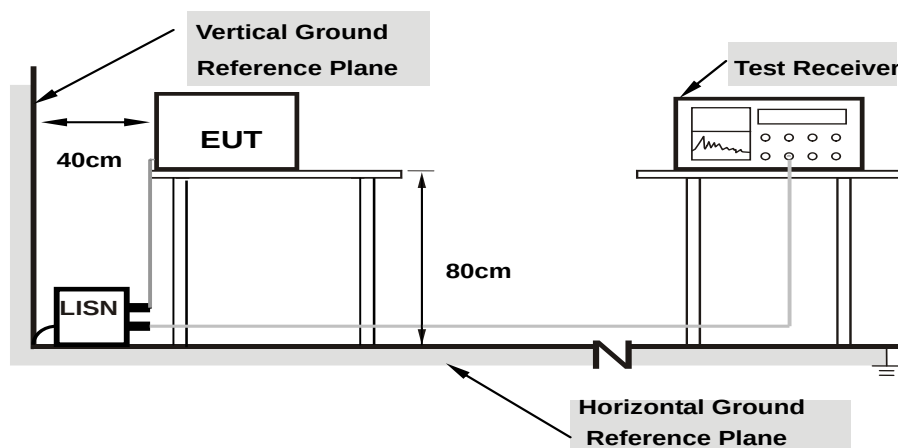
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

Note: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



- Note:**
- 1.Support units were connected to second LISN.
 - 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.2.6 EUT Operating Conditions

- Placed the EUT on a testing table.
- Use the software to control the EUT under transmission condition continuously at specific channel frequency.

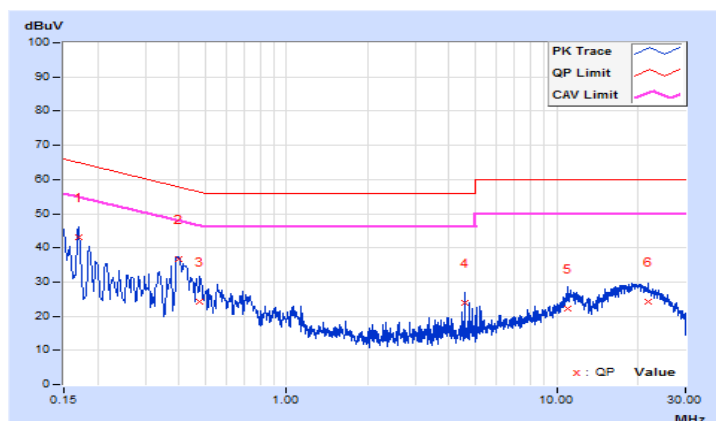
4.2.7 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 67%RH
Tested by	Adair Peng	Test Date	2020/7/21

Phase Of Power : Line (L)										
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16955	9.63	33.46	18.43	43.09	28.06	64.98	54.98	-21.89	-26.92
2	0.39844	9.65	26.91	21.61	36.56	31.26	57.89	47.89	-21.33	-16.63
3	0.47844	9.65	14.58	5.51	24.23	15.16	56.37	46.37	-32.14	-31.21
4	4.57221	9.80	14.06	1.75	23.86	11.55	56.00	46.00	-32.14	-34.45
5	11.02371	9.88	12.33	7.55	22.21	17.43	60.00	50.00	-37.79	-32.57
6	21.88569	9.91	14.48	9.62	24.39	19.53	60.00	50.00	-35.61	-30.47

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

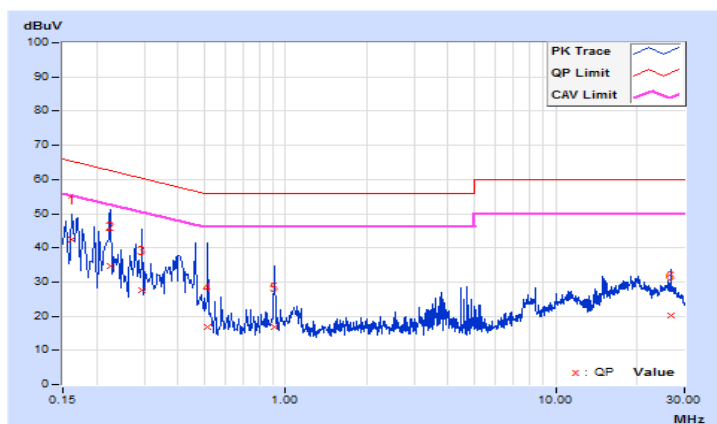


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 67%RH
Tested by	Adair Peng	Test Date	2020/7/21

Phase Of Power : Neutral (N)										
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16173	9.66	32.76	17.55	42.42	27.21	65.37	55.37	-22.95	-28.16
2	0.22429	9.64	25.20	9.46	34.84	19.10	62.66	52.66	-27.82	-33.56
3	0.29467	9.65	18.11	4.58	27.76	14.23	60.39	50.39	-32.63	-36.16
4	0.51754	9.68	7.23	2.36	16.91	12.04	56.00	46.00	-39.09	-33.96
5	0.91245	9.70	7.19	1.60	16.89	11.30	56.00	46.00	-39.11	-34.70
6	26.76928	10.05	10.14	4.97	20.19	15.02	60.00	50.00	-39.81	-34.98

Remarks:

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

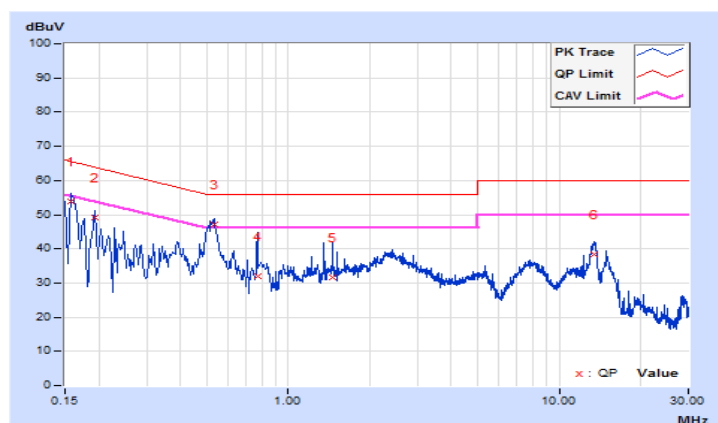


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 68%RH
Tested by	Titan Hsu	Test Date	2020/2/20
Test Mode	Mode B		

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	0.15782	10.15	43.84	29.94	53.99	40.09	65.58	55.58	-11.59	-15.49
2	0.19301	10.16	38.91	26.60	49.07	36.76	63.91	53.91	-14.84	-17.15
3	0.53318	10.19	36.82	30.32	47.01	40.51	56.00	46.00	-8.99	-5.49
4	0.76778	10.23	21.82	15.36	32.05	25.59	56.00	46.00	-23.95	-20.41
5	1.45594	10.31	21.19	15.89	31.50	26.20	56.00	46.00	-24.50	-19.80
6	13.47137	10.60	27.75	22.40	38.35	33.00	60.00	50.00	-21.65	-17.00

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

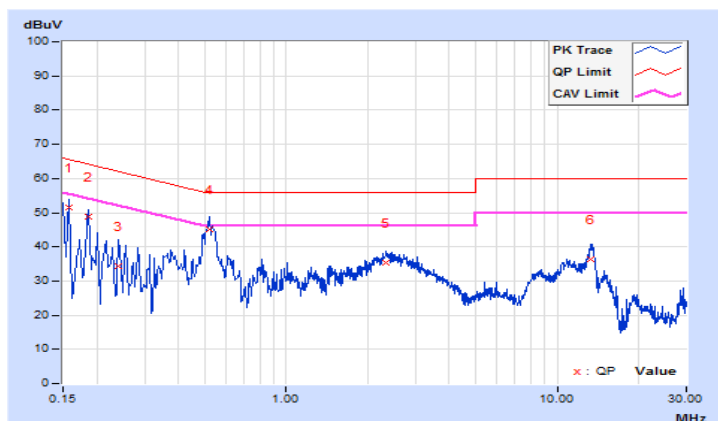


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 68%RH
Tested by	Titan Hsu	Test Date	2020/2/20
Test Mode	Mode B		

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	0.15782	10.13	41.54	24.10	51.67	34.23	65.58	55.58	-13.91	-21.35
2	0.18519	10.13	38.53	26.45	48.66	36.58	64.25	54.25	-15.59	-17.67
3	0.23993	10.14	24.04	10.00	34.18	20.14	62.10	52.10	-27.92	-31.96
4	0.52130	10.19	34.84	27.83	45.03	38.02	56.00	46.00	-10.97	-7.98
5	2.33960	10.38	25.14	20.35	35.52	30.73	56.00	46.00	-20.48	-15.27
6	13.36189	10.63	25.90	20.03	36.53	30.66	60.00	50.00	-23.47	-19.34

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125 mW (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	250 mW (24 dBm)
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 Method of conducted output power measurement on IEEE 802.11 devices,

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

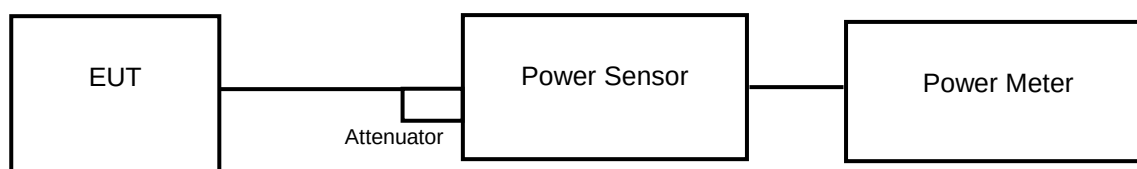
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

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.

4.3.2 Test Setup

<Power Output Measurement>



4.3.3 Test Instruments

Refer to section 4.1.3 to get information of above instrument.

4.3.4 Test Procedure

Average Power Measurement

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. Duty factor is not added to measured value.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Results

Power Output:

802.11a (SISO)

Channel	Frequency (MHz)	Maximum Conducted Power (mW)		Maximum Conducted Power (dBm)		Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1		
36	5180	34.20	34.43	15.34	15.37	24	Pass
40	5200	34.04	34.28	15.32	15.35	24	Pass
48	5240	33.88	34.04	15.30	15.32	24	Pass
52	5260	33.73	33.88	15.28	15.30	24	Pass
56	5280	34.12	34.20	15.33	15.34	24	Pass
64	5320	34.04	34.36	15.32	15.36	24	Pass
100	5500	34.51	34.75	15.38	15.41	24	Pass
120	5600	33.81	34.04	15.29	15.32	24	Pass
140	5700	33.73	33.88	15.28	15.30	24	Pass
144	5720	33.81	33.96	15.29	15.31	24	Pass
149	5745	34.67	27.61	15.40	14.41	30	Pass
157	5785	34.75	34.91	15.41	15.43	30	Pass
165	5825	33.88	34.20	15.30	15.34	30	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	12.36	12.47	34.88	15.43	24	Pass
40	5200	12.40	12.46	35.00	15.44	24	Pass
48	5240	12.37	12.45	34.84	15.42	24	Pass
52	5260	12.35	12.48	34.88	15.43	24	Pass
56	5280	12.38	12.45	34.88	15.43	24	Pass
64	5320	12.36	12.42	34.68	15.40	24	Pass
100	5500	12.37	12.46	34.88	15.43	24	Pass
120	5600	12.35	12.44	34.72	15.41	24	Pass
140	5700	12.37	12.43	34.76	15.41	24	Pass
144	5720	12.38	12.47	34.96	15.44	24	Pass
149	5745	12.41	12.47	35.08	15.45	30	Pass
157	5785	12.40	12.46	35.00	15.44	30	Pass
165	5825	12.32	12.40	34.44	15.37	30	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	12.37	12.43	34.76	15.41	24	Pass
46	5230	12.34	12.45	34.74	15.41	24	Pass
54	5270	12.40	12.42	34.84	15.42	24	Pass
62	5310	12.36	12.42	34.68	15.40	24	Pass
102	5510	12.37	12.46	34.88	15.43	24	Pass
118	5590	12.35	12.41	34.60	15.39	24	Pass
134	5670	12.34	12.45	34.72	15.41	24	Pass
142	5710	12.33	12.41	34.52	15.38	24	Pass
151	5755	12.35	12.44	34.72	15.41	30	Pass
159	5795	12.30	12.43	34.48	15.38	30	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	12.34	12.41	34.56	15.39	24	Pass
58	5290	12.35	12.42	34.64	15.40	24	Pass
106	5530	12.3	12.41	34.40	15.37	24	Pass
122	5610	12.35	12.4	34.56	15.39	24	Pass
138	5690	12.3	12.4	34.36	15.36	24	Pass
155	5775	12.34	12.40	34.52	15.38	30	Pass

802.11ac (VHT160)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
50	5250	10.83	10.90	16.99	13.88	24	Pass
114	5570	11.3	11.45	24.91	14.39	24	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	12.41	12.48	35.12	15.46	24	Pass
40	5200	12.42	12.47	35.12	15.46	24	Pass
48	5240	12.40	12.46	35.00	15.44	24	Pass
52	5260	12.39	12.47	35.00	15.44	24	Pass
56	5280	12.41	12.45	35.00	15.44	24	Pass
64	5320	12.40	12.44	34.92	15.43	24	Pass
100	5500	12.41	12.46	35.04	15.45	24	Pass
120	5600	12.42	12.47	35.12	15.46	24	Pass
140	5700	12.40	12.45	34.96	15.44	24	Pass
144	5720	12.40	12.47	35.04	15.45	24	Pass
149	5745	12.40	12.47	35.04	15.45	30	Pass
157	5785	12.43	12.46	35.12	15.46	30	Pass
165	5825	12.36	12.42	34.68	15.40	30	Pass

802.11ax (HE20) (106/53)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	12.39	12.45	34.92	15.43	24	Pass
100	5500	12.37	12.44	34.80	15.42	24	Pass
140	5700	12.37	12.43	34.76	15.41	24	Pass
149	5745	12.38	12.43	34.80	15.42	30	Pass

802.11ax (HE20) (52/37)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	12.36	12.42	34.68	15.40	24	Pass
100	5500	12.35	12.41	34.60	15.39	24	Pass
140	5700	12.36	12.40	34.60	15.39	24	Pass
149	5745	12.36	12.41	34.64	15.40	30	Pass

802.11ax (HE20) (26/0)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	10.65	10.58	23.04	13.63	24	Pass
100	5500	10.49	10.53	22.49	13.52	24	Pass
140	5700	10.52	10.54	22.60	13.54	24	Pass
149	5745	12.35	12.40	34.56	15.39	30	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	12.41	12.46	35.04	15.45	24	Pass
46	5230	12.37	12.47	34.92	15.43	24	Pass
54	5270	12.42	12.46	35.08	15.45	24	Pass
62	5310	12.39	12.46	34.96	15.44	24	Pass
102	5510	12.42	12.48	35.16	15.46	24	Pass
118	5590	12.38	12.44	34.84	15.42	24	Pass
134	5670	12.38	12.47	34.96	15.44	24	Pass
142	5710	12.37	12.42	34.72	15.41	24	Pass
151	5755	12.40	12.46	35.00	15.44	30	Pass
159	5795	12.37	12.45	34.84	15.42	30	Pass

802.11ax (HE40) (242/61)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	12.38	12.43	34.80	15.42	24	Pass
102	5510	12.40	12.43	34.88	15.43	24	Pass
134	5670	12.39	12.41	34.76	15.41	24	Pass
151	5755	12.36	12.44	34.76	15.41	30	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	12.37	12.46	34.88	15.43	24	Pass
58	5290	12.4	12.44	34.92	15.43	24	Pass
106	5530	12.36	12.45	34.80	15.42	24	Pass
122	5610	12.4	12.47	35.04	15.45	24	Pass
138	5690	12.36	12.45	34.80	15.42	24	Pass
155	5775	12.37	12.46	34.88	15.43	30	Pass

802.11ax (HE80) (484/65)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	12.35	12.45	34.76	15.41	24	Pass
106	5530	12.34	12.44	34.68	15.40	24	Pass
155	5775	12.35	12.45	34.76	15.41	30	Pass

802.11ax (HE160)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
50	5250	10.85	10.96	24.64	13.92	24	Pass
114	5570	11.37	11.46	27.70	14.43	24	Pass

802.11ax (HE160) (996/67)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
50	5250	10.83	10.94	24.52	13.90	24	Pass
114	5570	11.35	11.44	27.58	14.41	24	Pass

802.11ax (HE160) (996/S67)

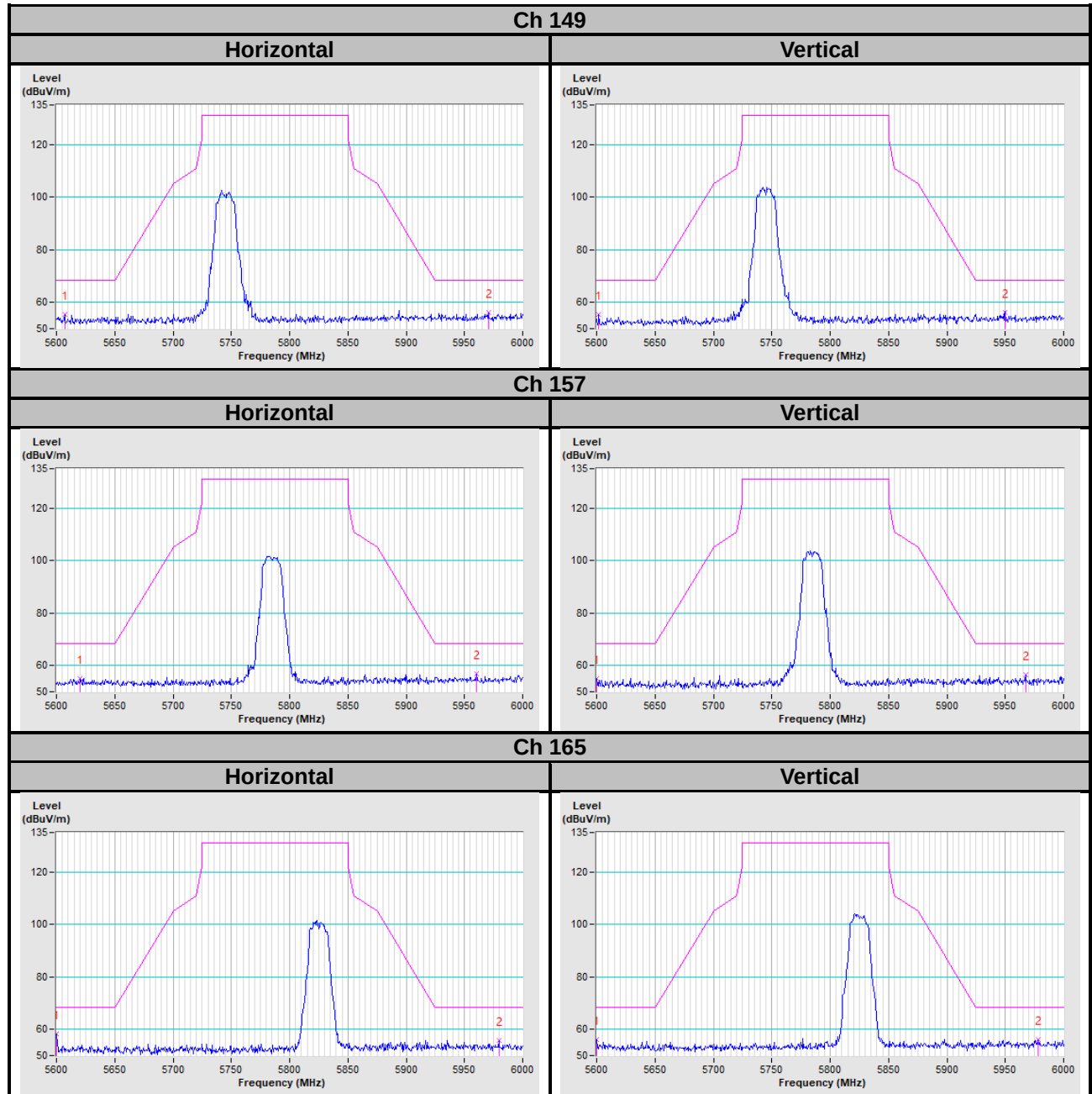
Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
50	5250	10.82	10.92	24.44	13.88	24	Pass
114	5570	11.31	11.41	27.36	14.37	24	Pass

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

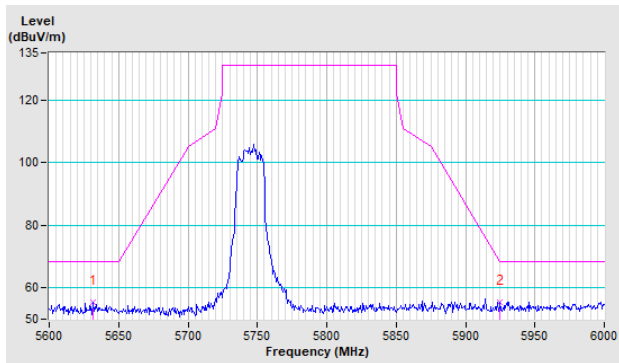
802.11a



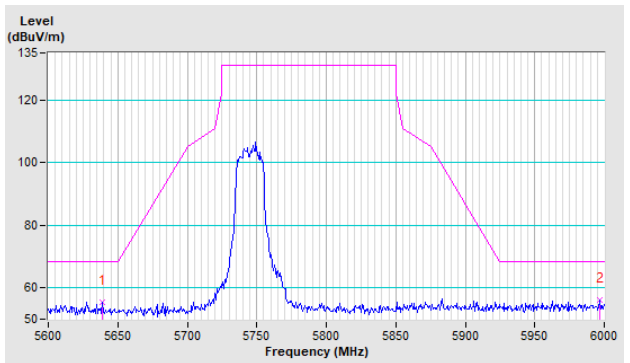
802.11ax (HE20)

Ch 149

Horizontal

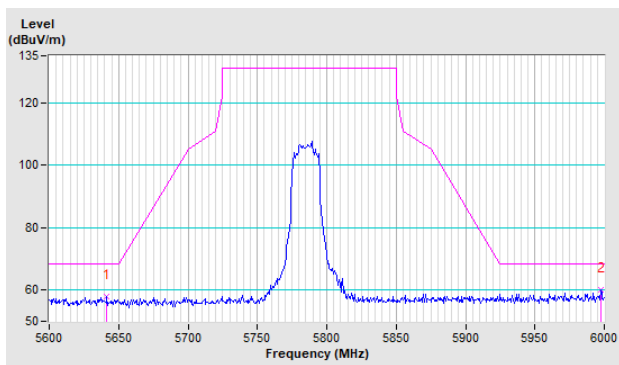


Vertical

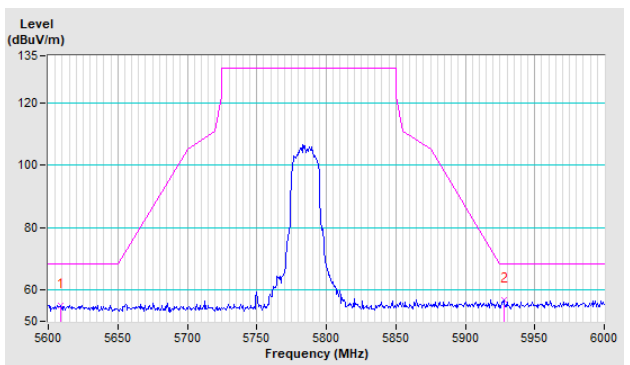


Ch 157

Horizontal

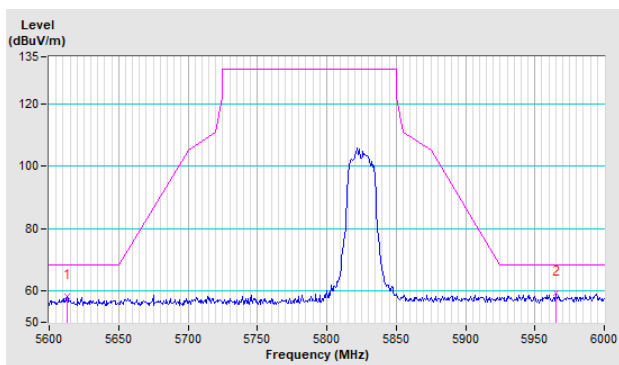


Vertical

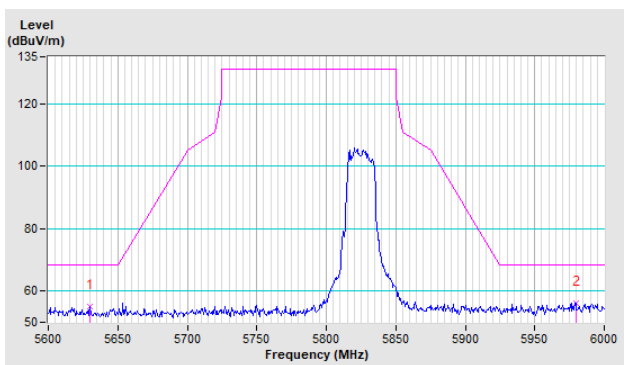


Ch 165

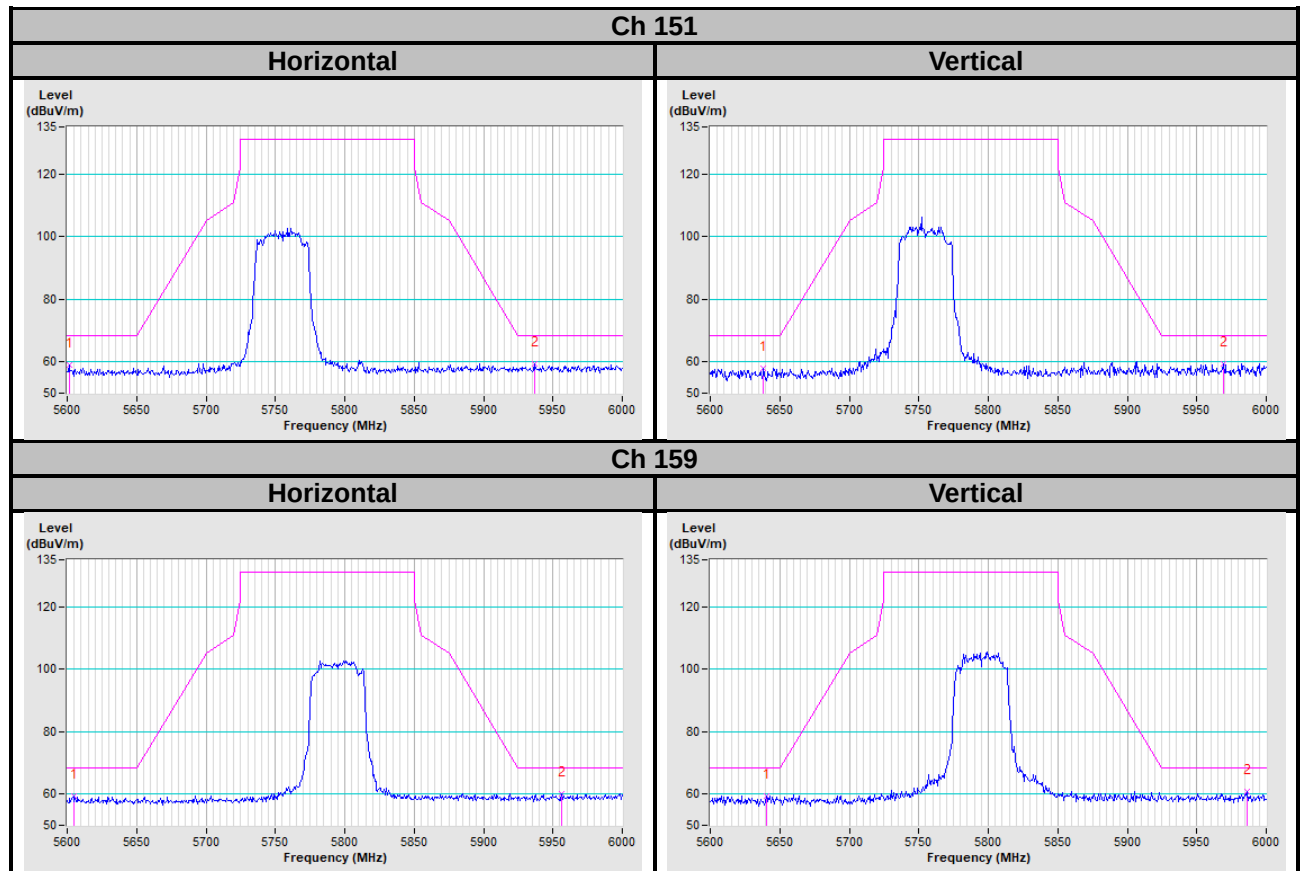
Horizontal



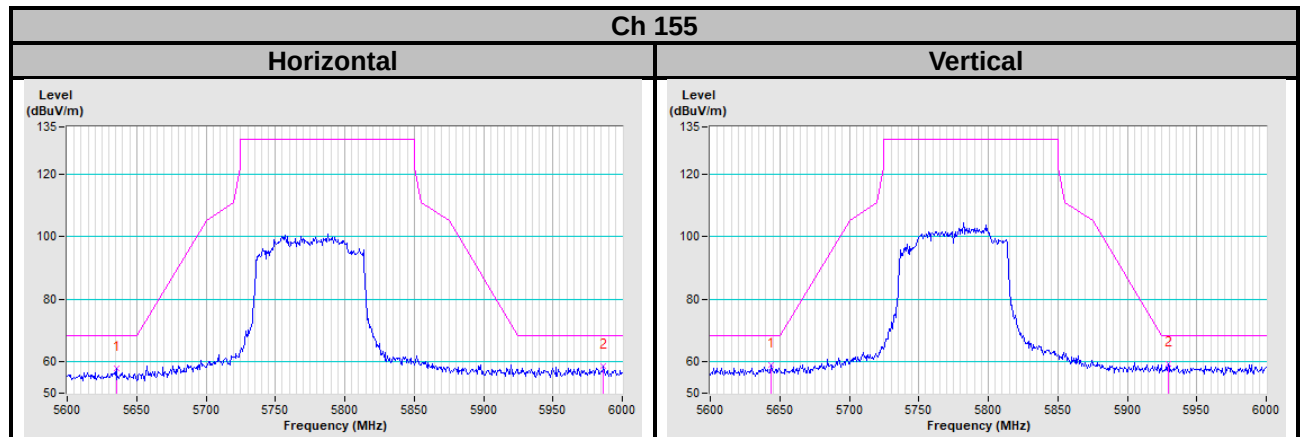
Vertical



802.11ax (HE40)



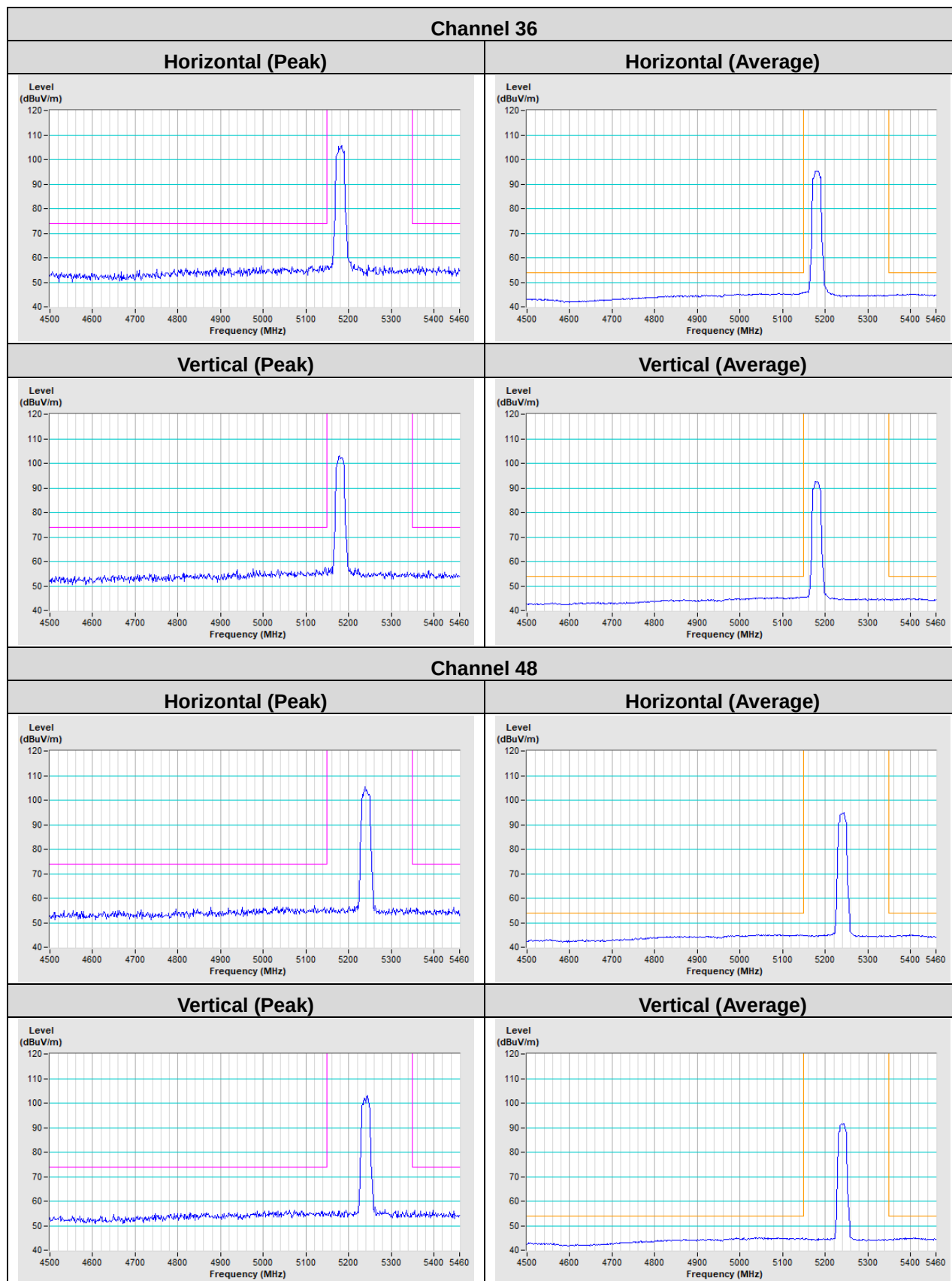
802.11ax (HE80)



Annex B- Radiated Out of Band Emission (OOBE) Measurement

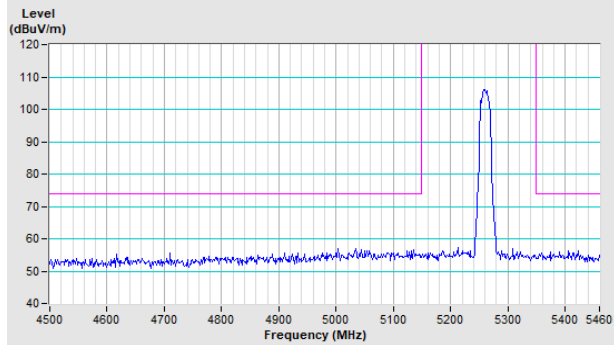
For 5180 ~ 5320 MHz

802.11a

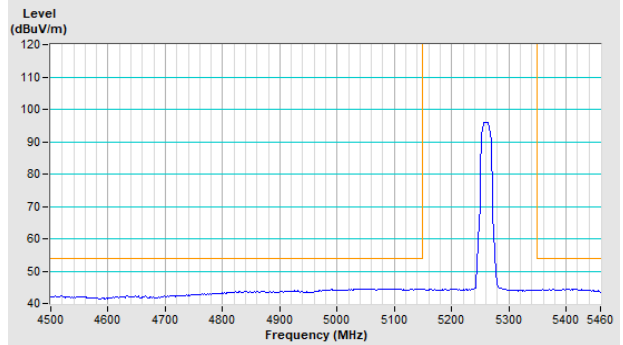


Channel 52

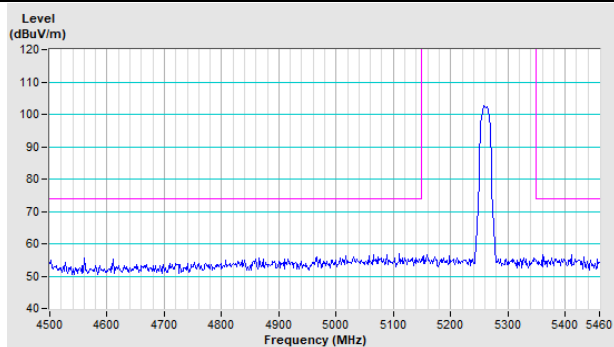
Horizontal (Peak)



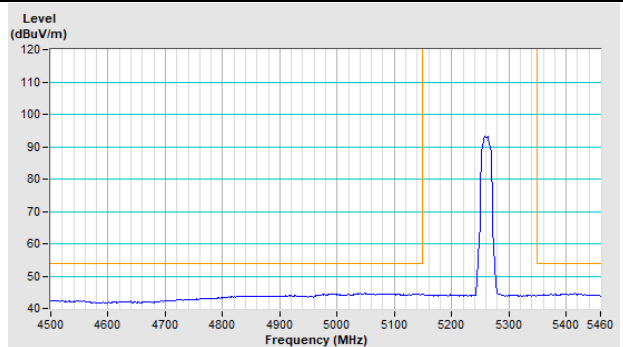
Horizontal (Average)



Vertical (Peak)

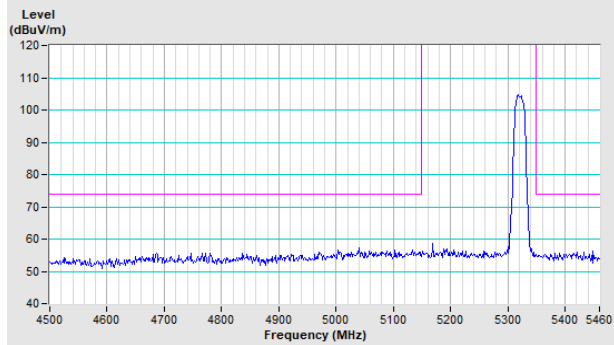


Vertical (Average)

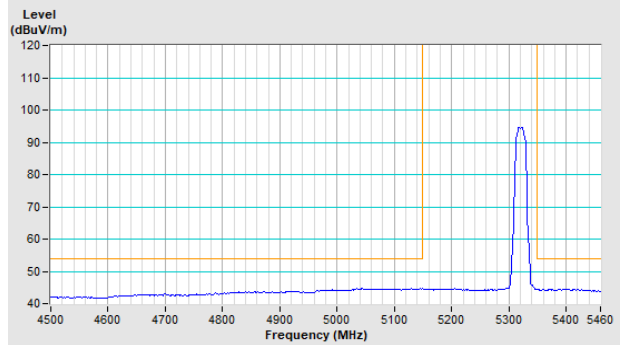


Channel 64

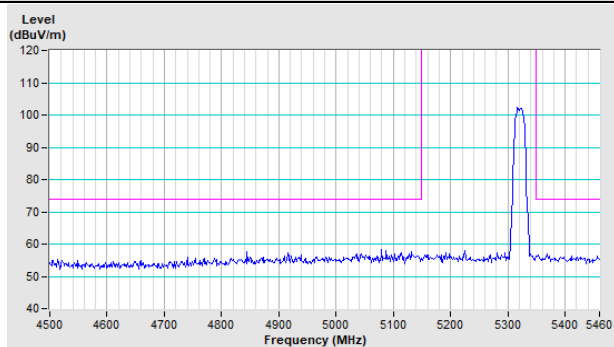
Horizontal (Peak)



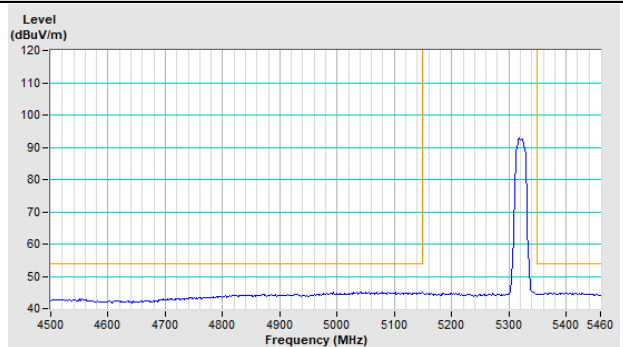
Horizontal (Average)



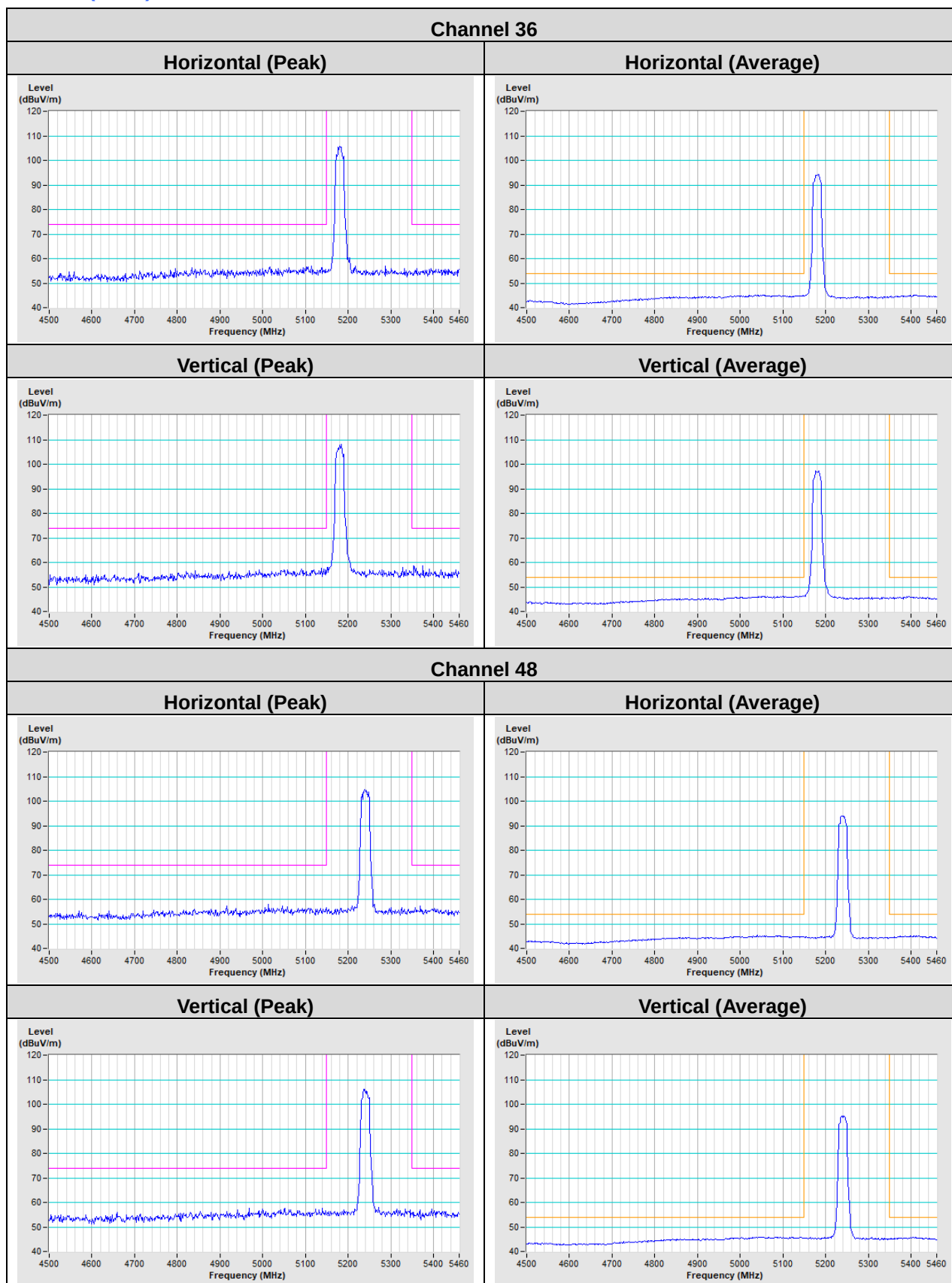
Vertical (Peak)



Vertical (Average)

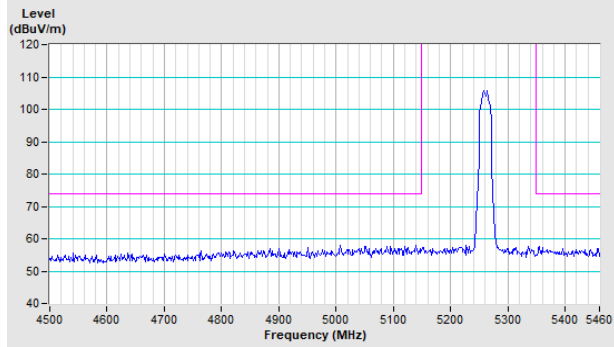


802.11ax (HE20)

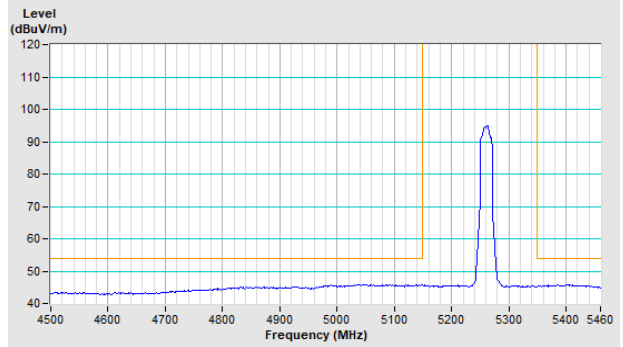


Channel 52

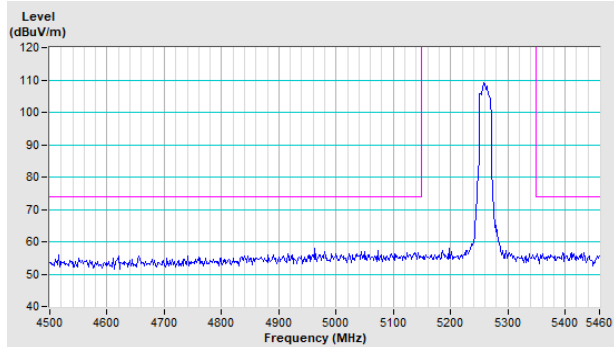
Horizontal (Peak)



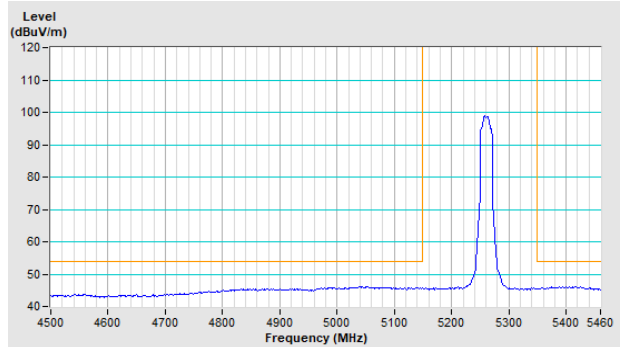
Horizontal (Average)



Vertical (Peak)

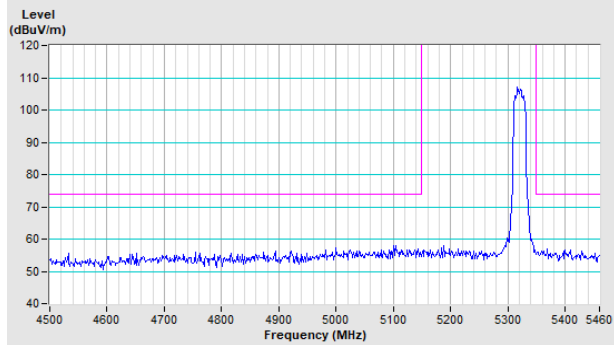


Vertical (Average)

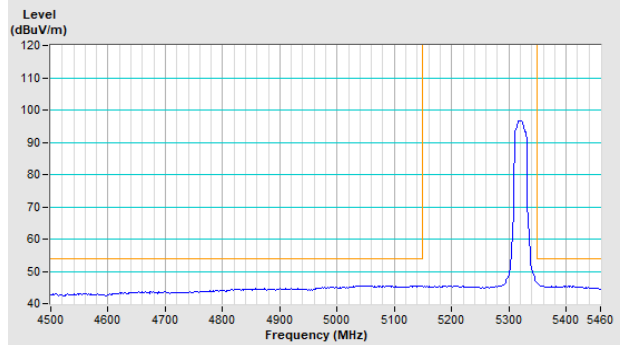


Channel 64

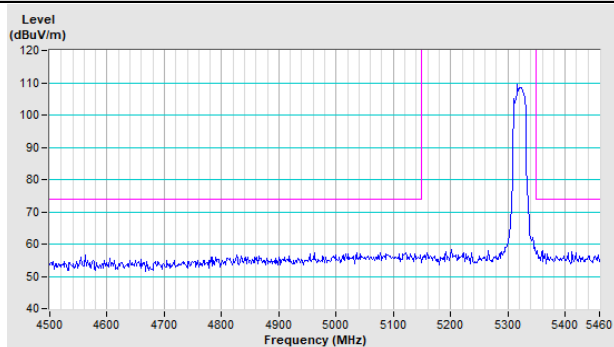
Horizontal (Peak)



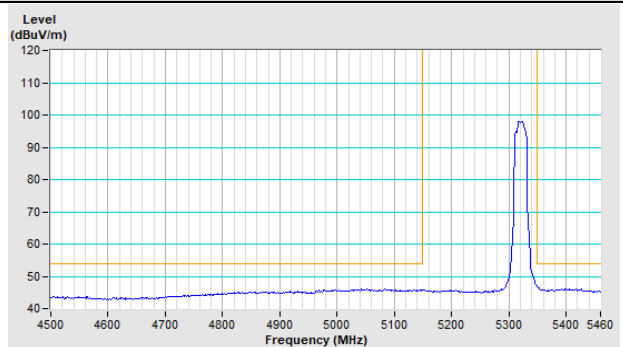
Horizontal (Average)



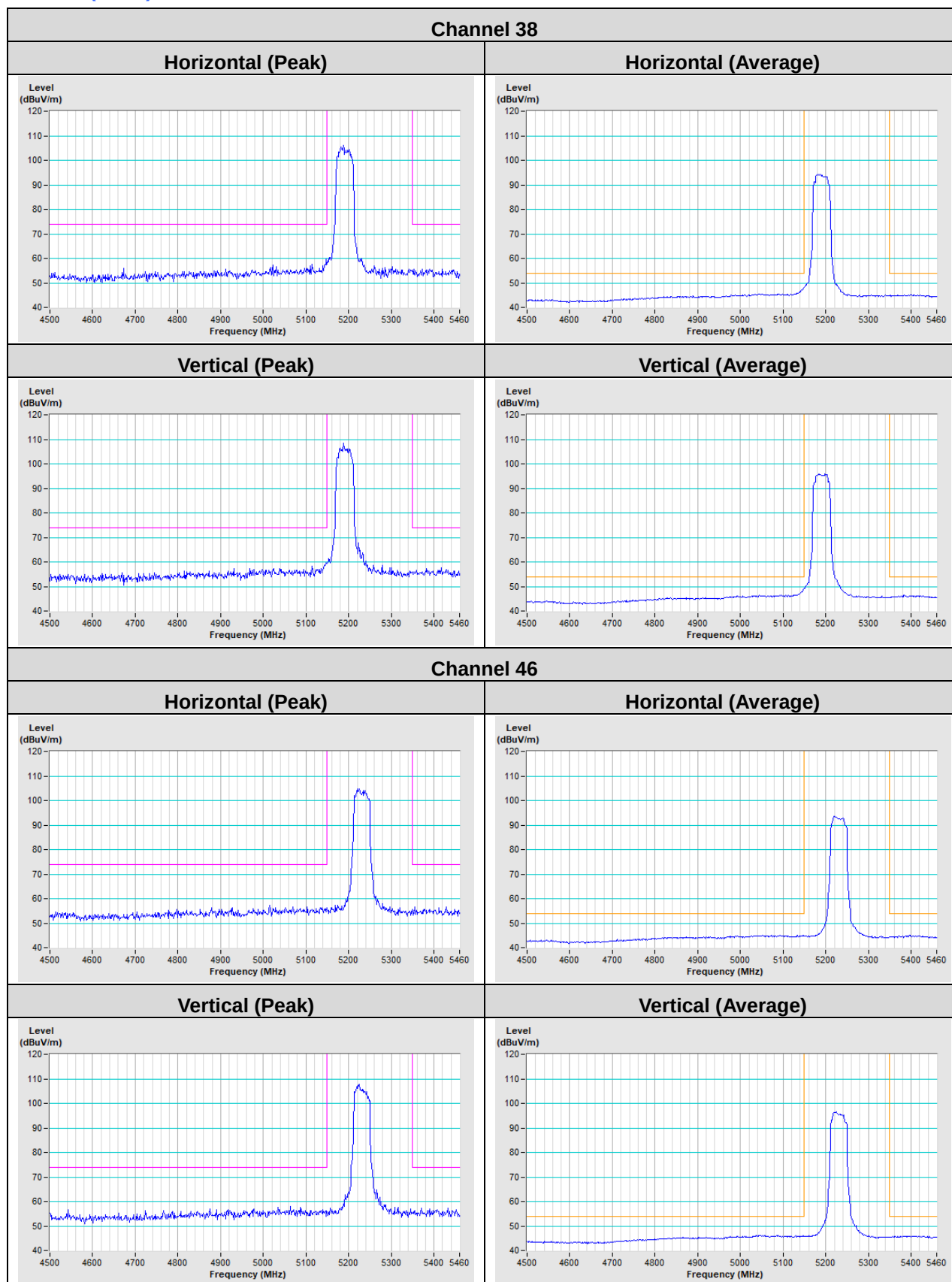
Vertical (Peak)



Vertical (Average)

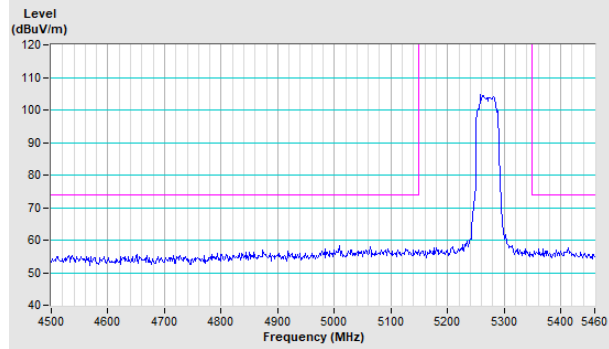


802.11ax (HE40)

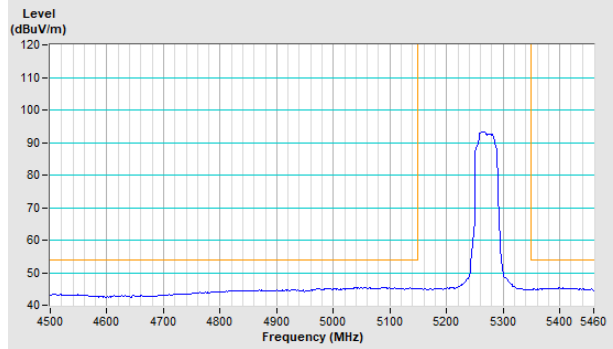


Channel 54

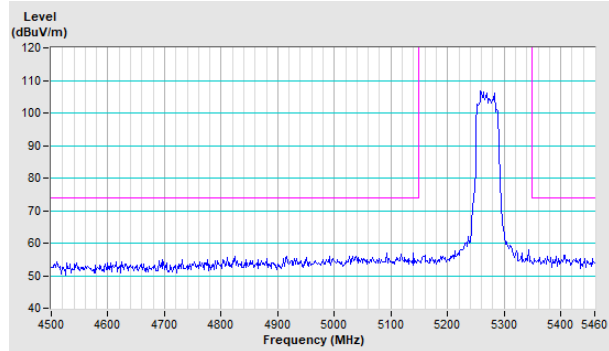
Horizontal (Peak)



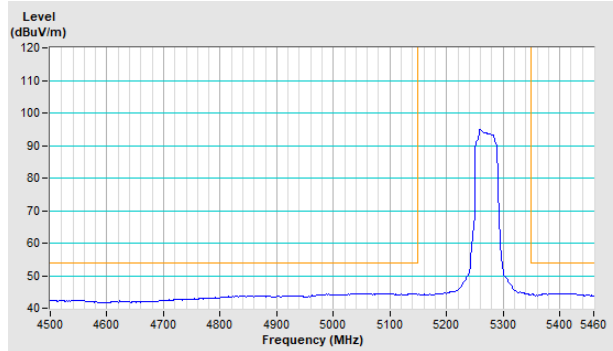
Horizontal (Average)



Vertical (Peak)

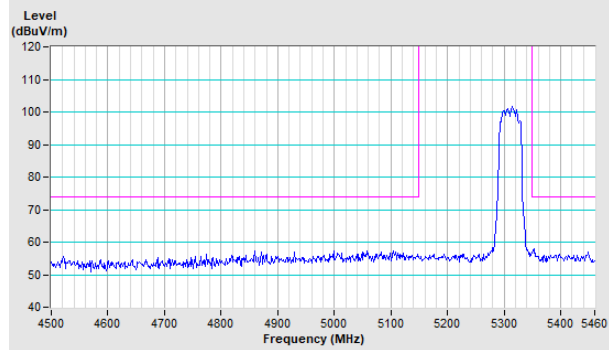


Vertical (Average)

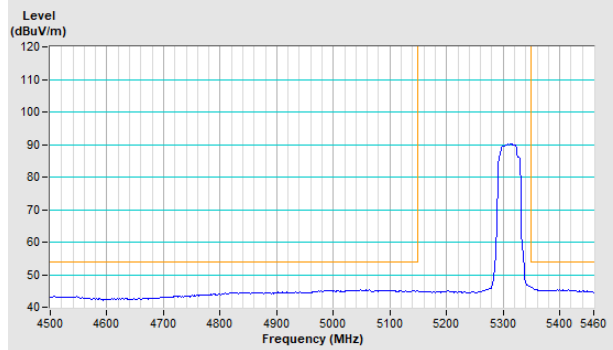


Channel 62

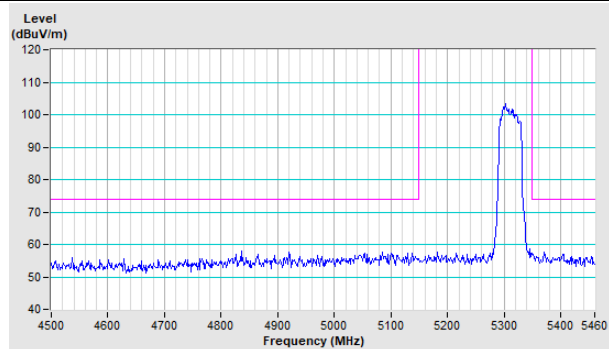
Horizontal (Peak)



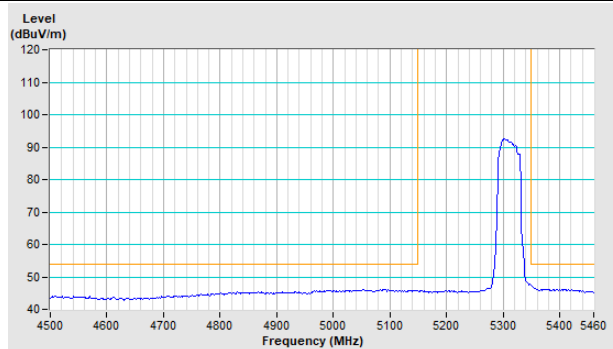
Horizontal (Average)



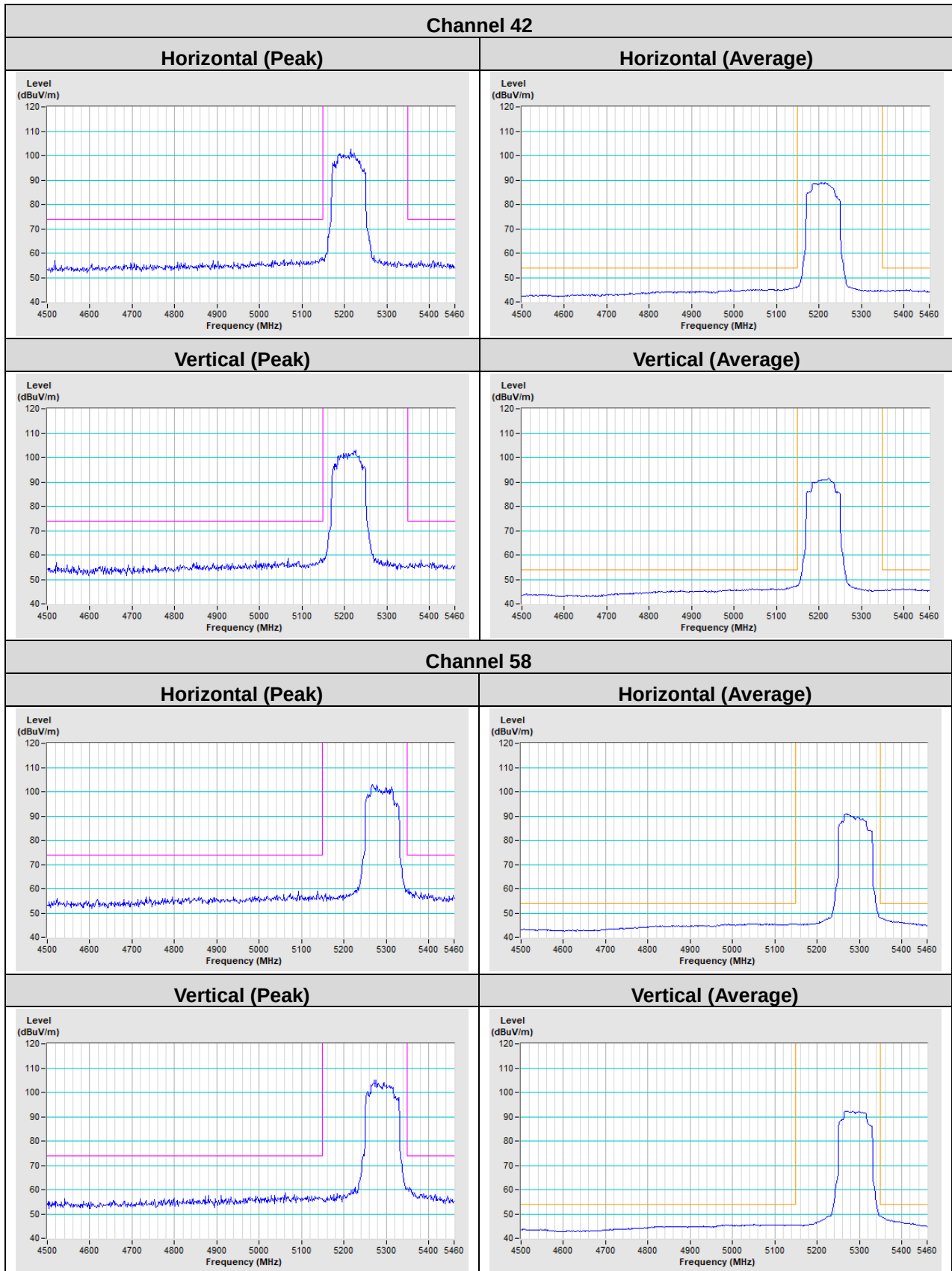
Vertical (Peak)



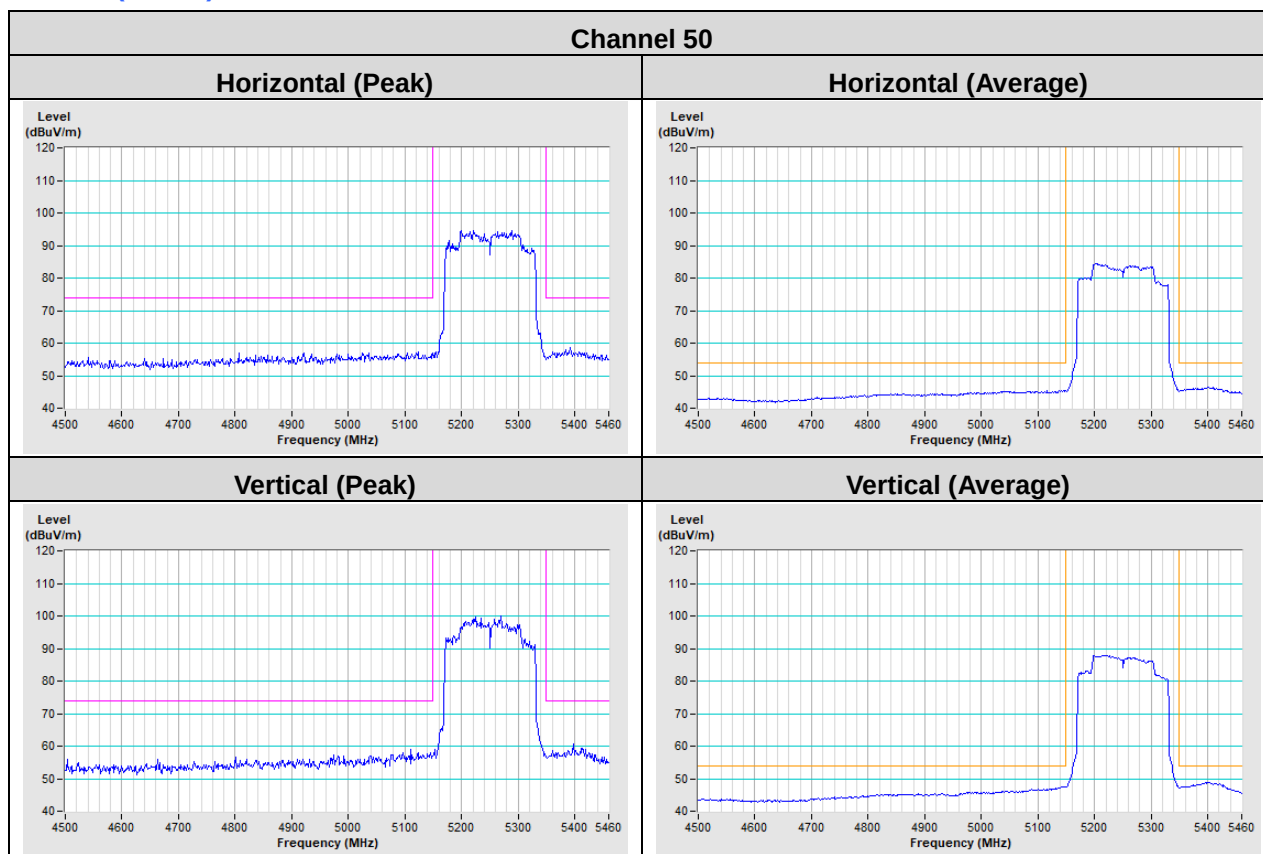
Vertical (Average)



802.11ax (HE80)

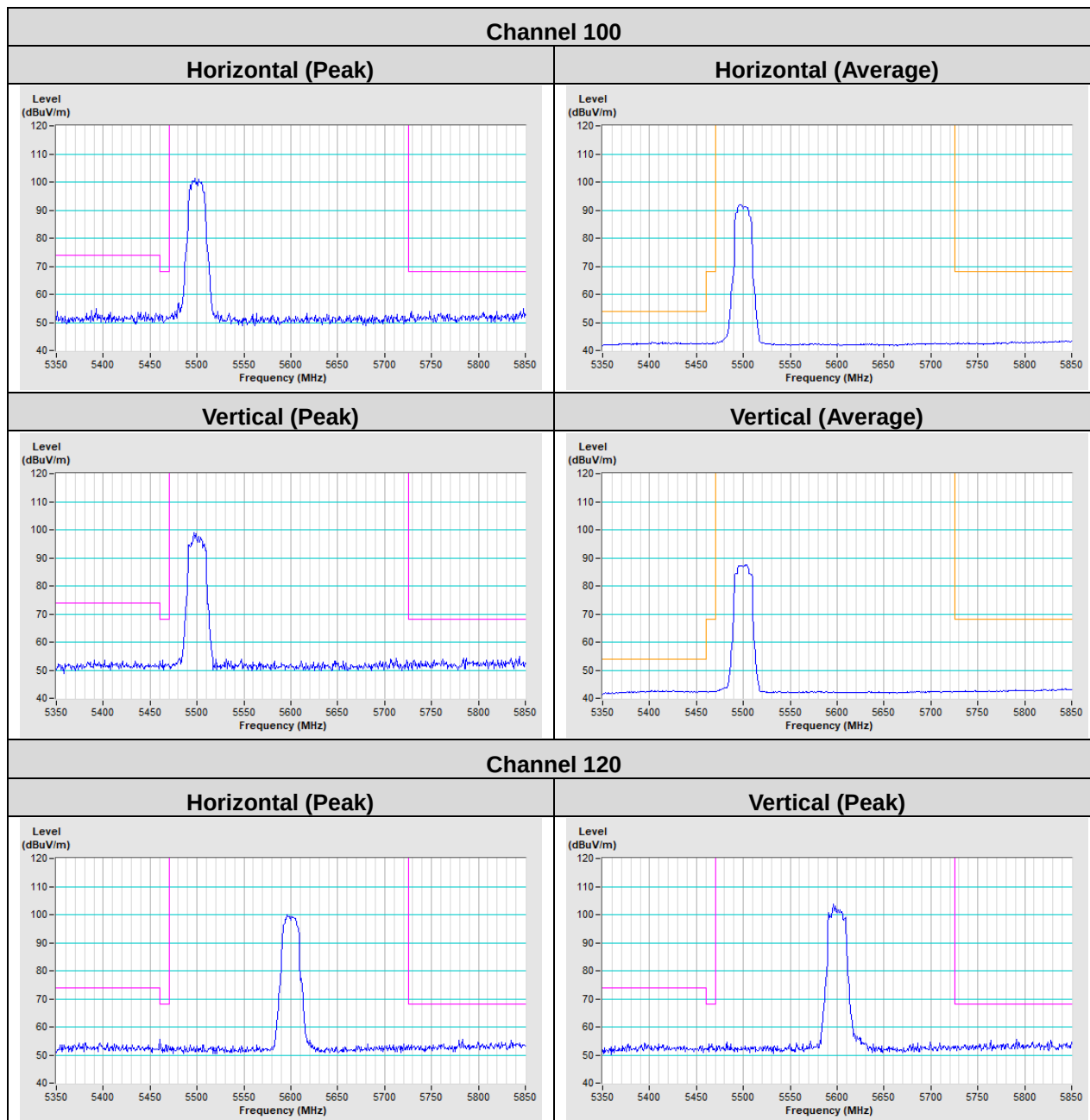


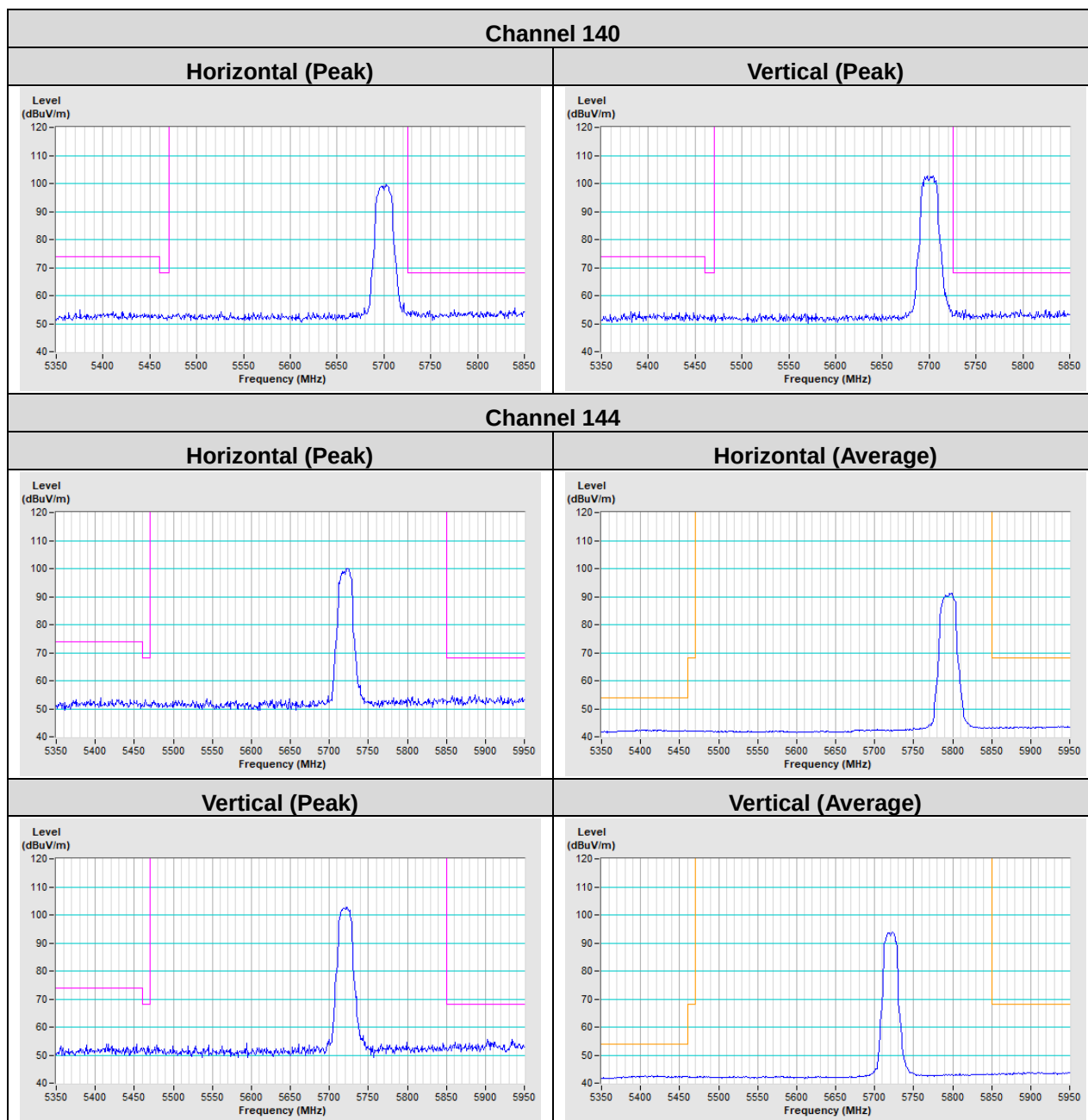
802.11ax (HE160)



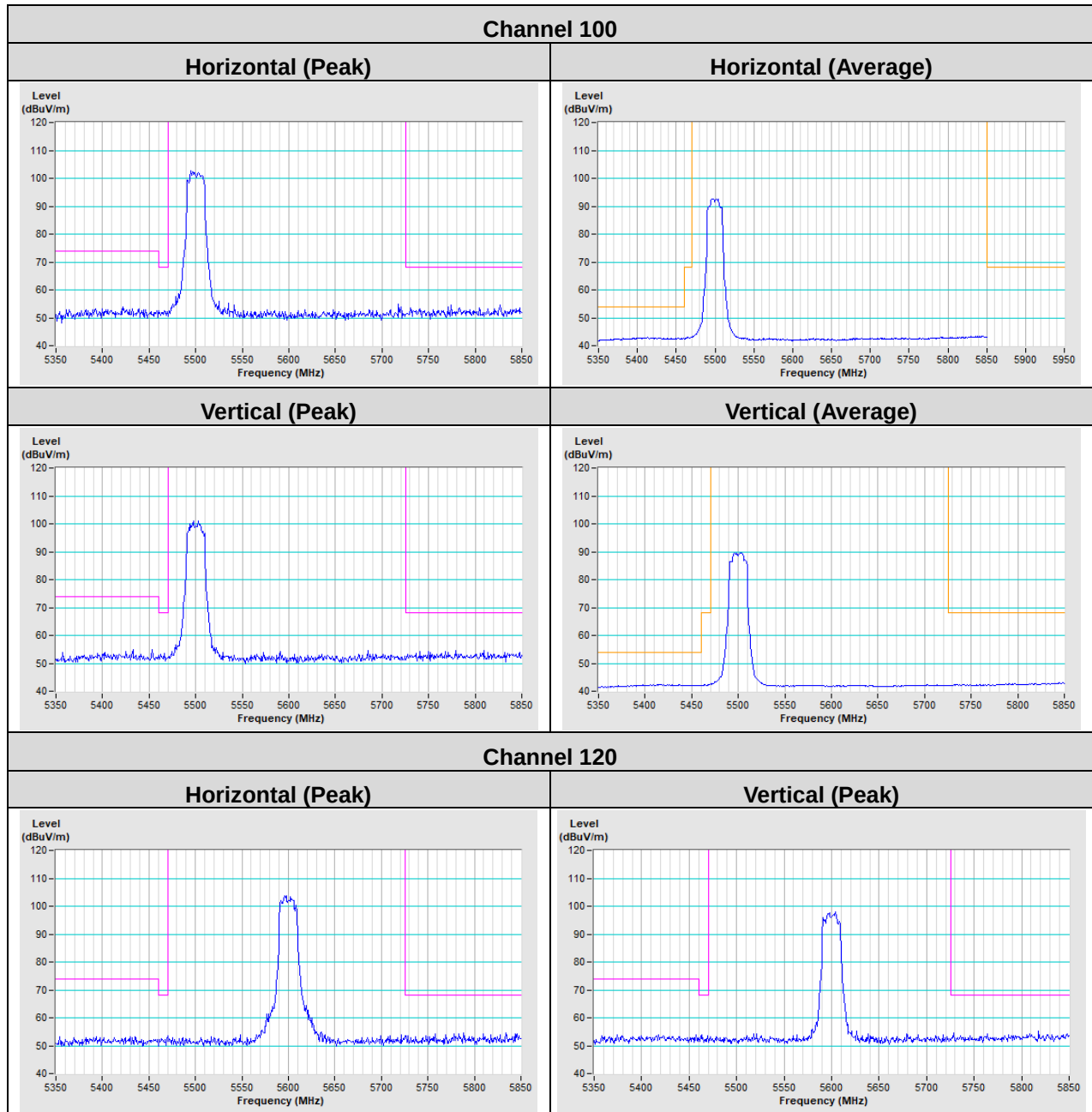
For 5500 ~ 5720 MHz

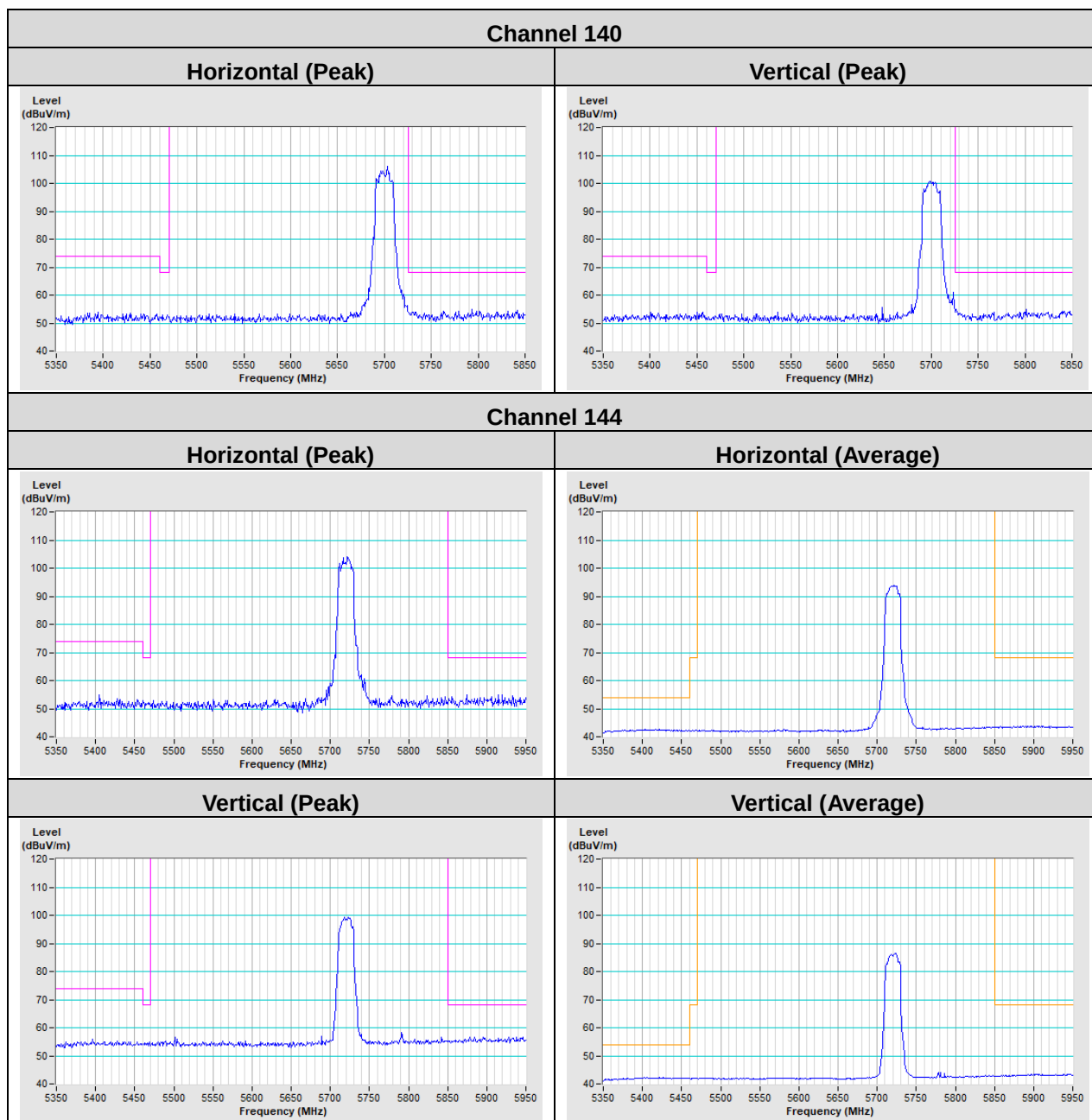
802.11a



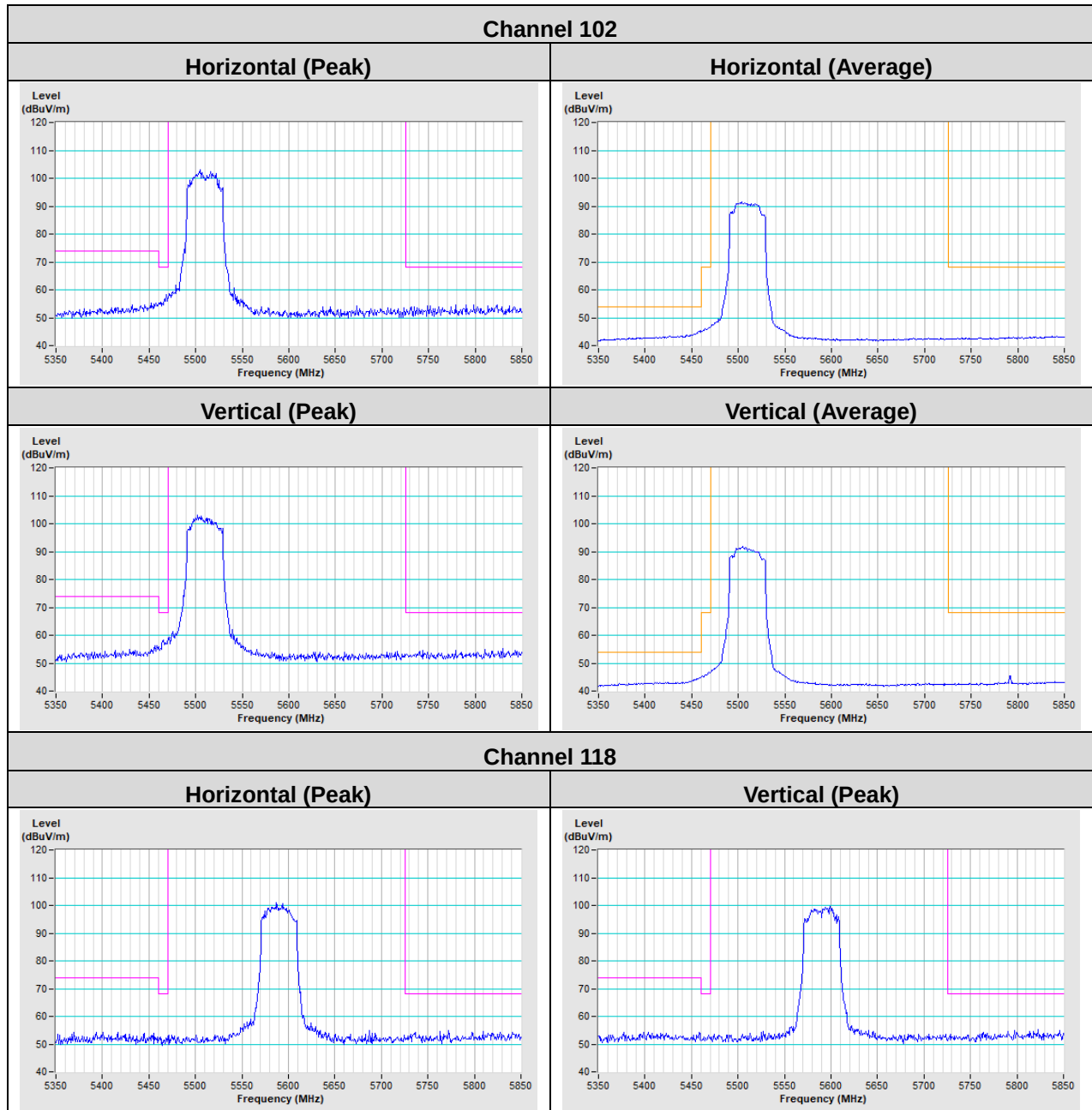


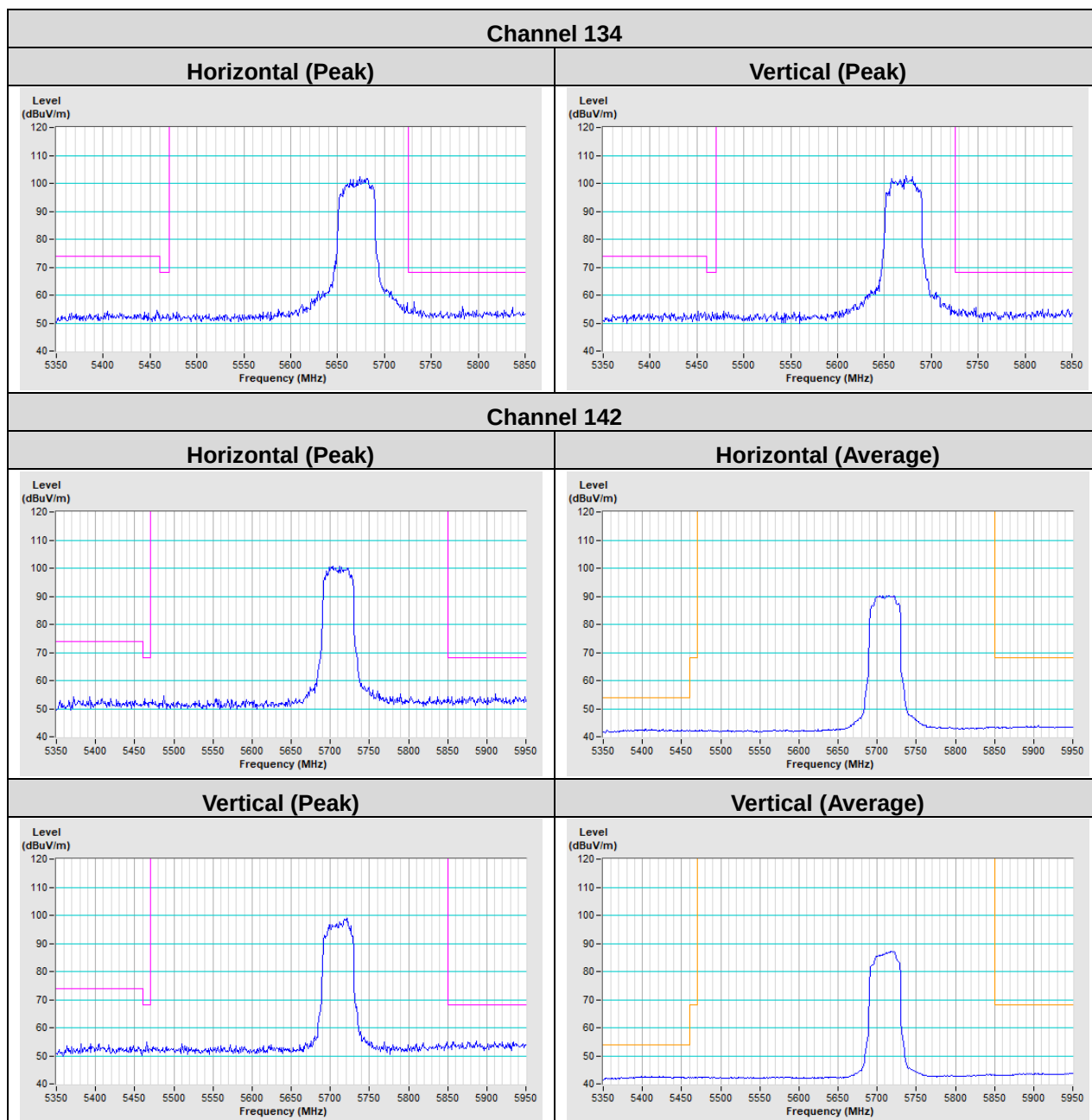
802.11ax (HE20)



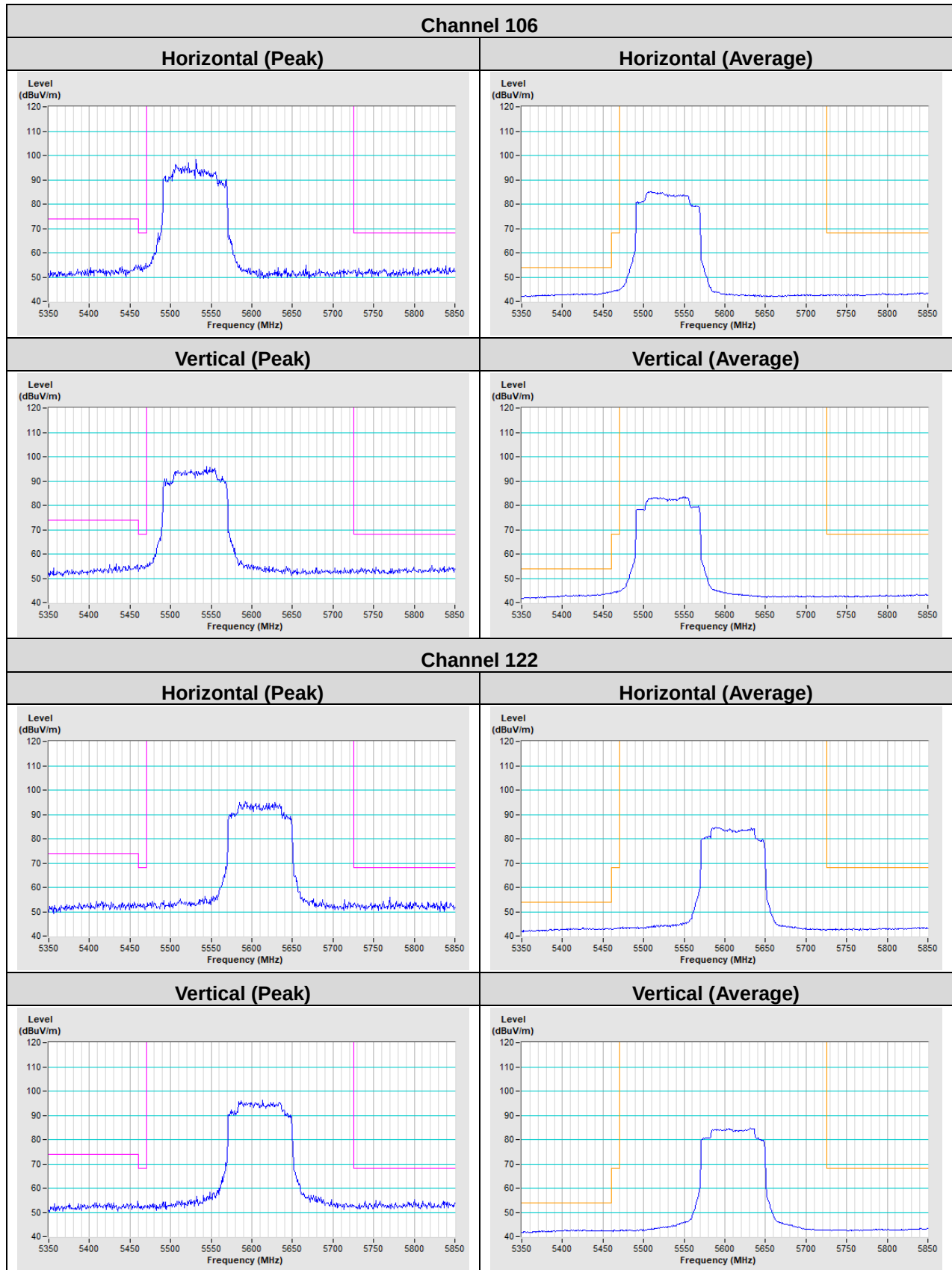


802.11ax (HE40)



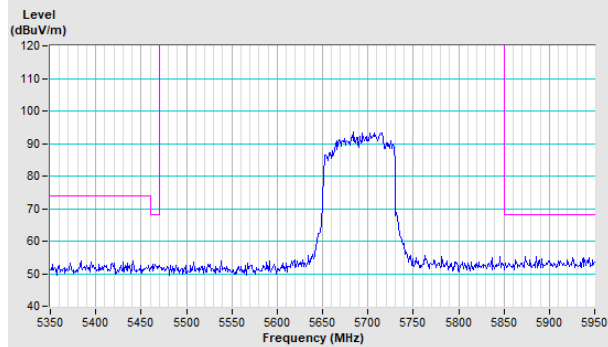


802.11ax (HE80)

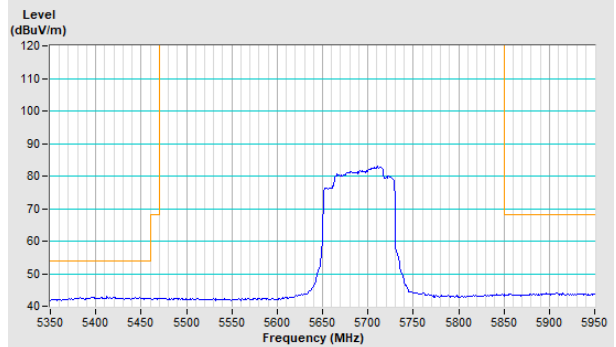


Channel 138

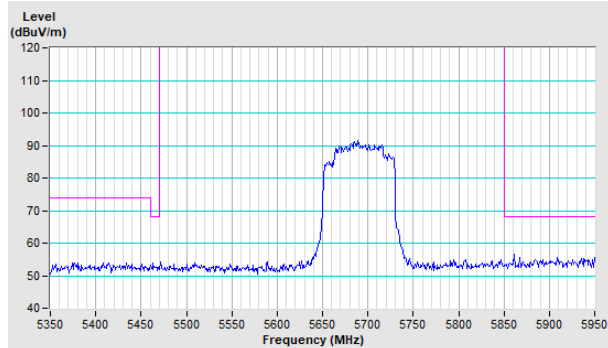
Horizontal (Peak)



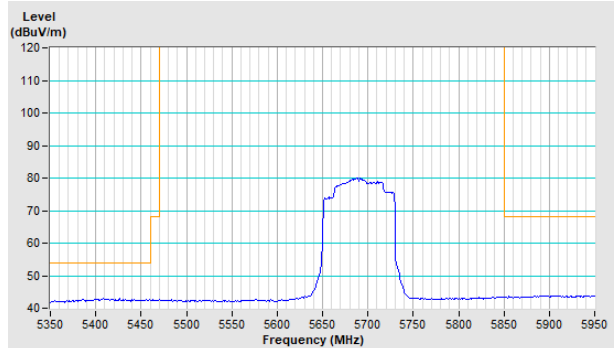
Horizontal (Average)



Vertical (Peak)



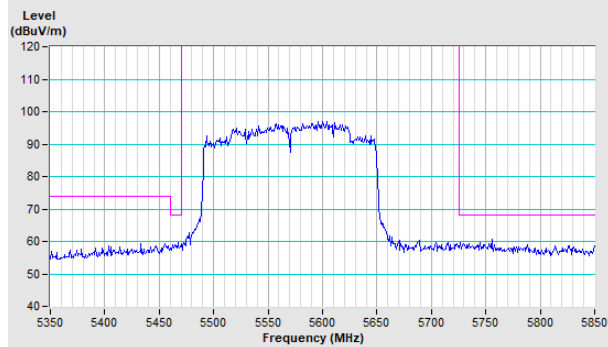
Vertical (Average)



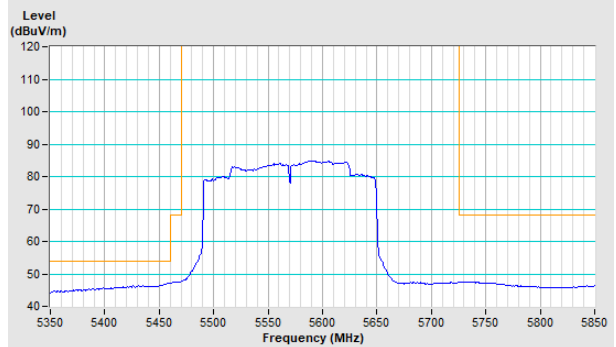
802.11ax (HE160)

Channel 114

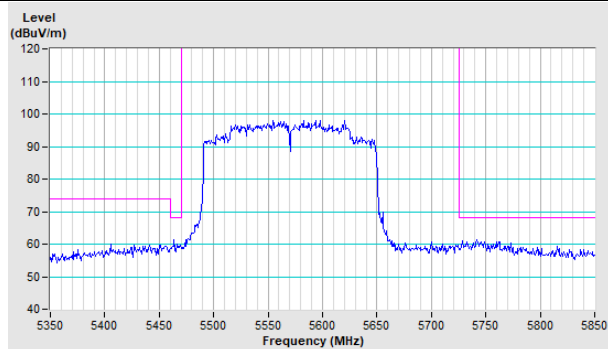
Horizontal (Peak)



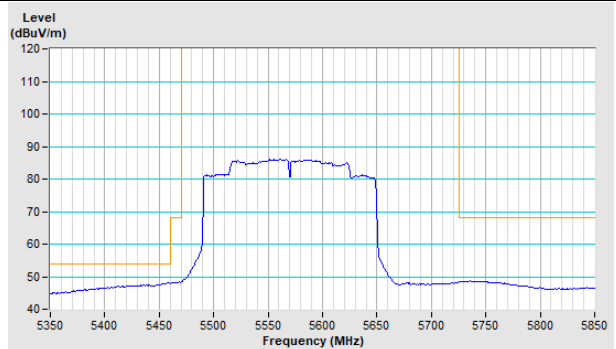
Horizontal (Average)



Vertical (Peak)



Vertical (Average)



Appendix – 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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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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