

Partial FCC Test Report

Report No.: RFBEDW-WTW-P21031097-3

FCC ID: O57AX200NGW

Test Model: AX200NGW

Received Date: Mar. 31, 2021

Test Date: Apr. 26 ~ Apr. 29, 2021

Issued Date: May 28, 2021

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**FCC Registration /
Designation Number:** 788550 / TW0003



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Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 Summary of Test Results.....	5
2.1 Measurement Uncertainty.....	6
2.2 Modification Record	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Description of Test Modes.....	9
3.2.1 Test Mode Applicability and Tested Channel Detail.....	11
3.3 Description of Support Units	12
3.3.1 Configuration of System under Test	12
3.4 General Description of Applied Standards and References	13
4 Test Types and Results	14
4.1 Radiated Emission and Bandedge Measurement	14
4.1.1 Limits of Radiated Emission and Bandedge Measurement	14
4.1.2 Limits of Unwanted Emission Out of the Restricted Bands	15
4.1.3 Test Instruments	16
4.1.4 Test Procedures.....	17
4.1.5 Deviation from Test Standard	18
4.1.6 Test Setup.....	18
4.1.7 EUT Operating Conditions.....	19
4.1.8 Test Results	20
4.2 Conducted Emission Measurement.....	66
4.2.1 Limits of Conducted Emission Measurement	66
4.2.2 Test Instruments	66
4.2.3 Test Procedures.....	67
4.2.4 Deviation from Test Standard	67
4.2.5 Test Setup.....	67
4.2.6 EUT Operating Conditions.....	67
4.2.7 Test Results	68
5 Pictures of Test Arrangements.....	70
Annex A- Radiated Out of Band Emission (OOBE) Measurement.....	71
Annex B- Band-edge measurement.....	74
Appendix – Information of the Testing Laboratories	86

Release Control Record

Issue No.	Description	Date Issued
RFBEDW-WTW-P21031097-3	Original Release	May 28, 2021

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: Apr. 26 ~ Apr. 29, 2021

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 : Gina Liu , **Date:** May 28, 2021
Gina Liu / Specialist

Approved by : Dylan Chiou , **Date:** May 28, 2021
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 -24.50 dB at 0.44177 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 -6.3 dB at 5150.00 MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	N/A	Refer to Note 2
---	Occupied Bandwidth Measurement	-	Reference only
15.407(a)(1/2/3)	Peak Power Spectral Density	N/A	Refer to Note 1
15.407(e)	6 dB Bandwidth	N/A	Refer to Note 1
15.407(g)	Frequency Stability	N/A	Refer to Note 1
15.203	Antenna Requirement	Pass	Antenna connector is IPEX / MHF-B13-N-01 not a standard connector.

Note:

1. This report is a partial report, only test item of AC Power Conducted Emission and Radiated Emissions 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. The Maximum Peak Output Power data please refer to SPORTON report no.: FA140648 for SAR.
3. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
4. 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.
5. 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) ($\pm$)
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	3.63 dB
	200 MHz ~ 1000 MHz	3.64 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 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 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 300.0 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2402.0 Mbps
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)
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	Lenovo 300e Chromebook Gen 3*****

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

3. The End-product contains following accessory devices.

Product	Brand	Model	Description
Adapter 1	Lenovo	ADLX45YLC2D	I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20.0V===2.25A, 45.0W 1.75M / Ocore
Adapter 2	Lenovo	ADLX65YCC3D	I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20.0V===3.25A, 65.0W 1.77M / Ocore
Adapter 3	Lenovo	ADLX65NLC3A	I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20.0V ===3.25A 1.55M / Ocore
Battery	Lenovo	L20M3PG0	11.52 Vdc, 3994 mAh, 46Wh

*After pretesting, the adapter 1 was the worst case and chose for final test.

4. The antenna information is listed as below.

Ant. Type	Brand	Ant.	Model	Antenna Peak Gain (dBi)					Connector
				BT	2400-2500MHz	5150-5350MHz	5470-5725MHz	5725-5850MHz	
PIFA	Pulse	Main	SZ1869W (DC33002JN40)	-	-6.68	-2.65	-3.04	-2.58	IPEX 20565 or compatible.
		Aux.	SZ18701 (DC33002JN50)	-2.20	-2.20	-3.52	-4.38	-3.81	
	South Star	Main	N12-7352-R0A (DC33002J040)	-	-4.70	-4.81	-3.26	-3.49	Kangshuo MHF-B13-N-01
		Aux.	N12-7353-R0A (DC33002J050)	-3.90	-3.90	-5.09	-6.35	-6.14	

* The Max antenna gain was chosen for final test.

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 (VHT160), 802.11ax (HE160):

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 $\geq$ 1G	RE<1G	PLC	
-	√	√	√	-

Where **RE $\geq$ 1G**: Radiated Emission above 1 GHz **RE<1G**: Radiated Emission below 1 GHz

PLC: Power Line Conducted Emission

Note: "-" means no effect.

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

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, 60, 64	OFDM	BPSK	6.0
-		802.11ax (HE20)	36 to 64	36, 40, 48, 52, 60, 64	OFDMA	BPSK	MCS0
-		802.11ax (HE40)	38 to 62	38, 46, 54, 62	OFDMA	BPSK	MCS0
-		802.11ax (HE80)	42 to 58	42, 58	OFDMA	BPSK	MCS0
-		802.11ax (HE160)	50	50	OFDMA	BPSK	MCS0
-	5500-5720	802.11a	100 to 144	100, 116, 140	OFDM	BPSK	6.0
-		802.11ax (HE20)	100 to 144	100, 116, 140, 144	OFDMA	BPSK	MCS0
-		802.11ax (HE40)	102 to 142	102, 110, 134, 142	OFDMA	BPSK	MCS0
-		802.11ax (HE80)	106 to 138	106, 122, 138	OFDMA	BPSK	MCS0
-		802.11ax (HE160)	114	114	OFDMA	BPSK	MCS0
-	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	MCS0
-		802.11ax (HE40)	151 to 159	151, 159	OFDMA	BPSK	MCS0
-		802.11ax (HE80)	155	155	OFDMA	BPSK	MCS0

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)
-	5180-5320	802.11ax (HE80)	42 to 58	42	OFDMA	BPSK	MCS0

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)
-	5180-5320	802.11ax (HE80)	42 to 58	42	OFDM	BPSK	MCS0

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	20 deg. C, 66 % RH	120 Vac, 60 Hz	Luis Lee, Dalen Dai
RE<1G	23 deg. C, 68 % RH	120 Vac, 60 Hz	Adair Peng
PLC	25 deg. C, 75 % RH	120 Vac, 60 Hz	Edison Lee

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.

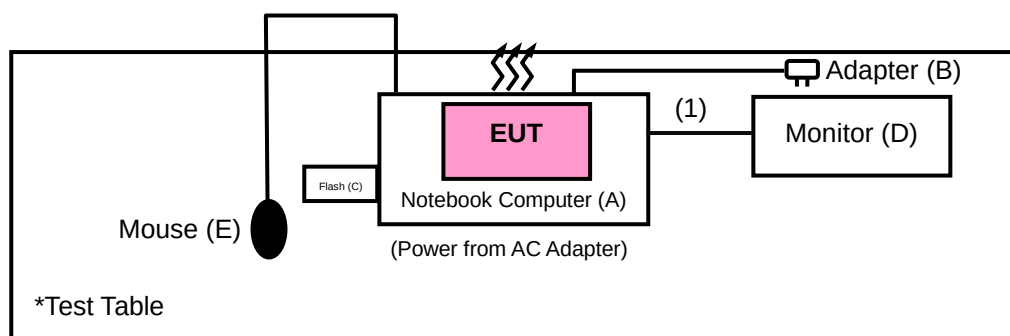
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Notebook Computer	Lenovo	Lenovo 300e Chromebook Gen 3*****	NA	NA	Provided by client
B	Adapter	Lenovo	ADLX45YLC2D	NA	NA	Provided by client
C	Flash	HP	v250W	09	NA	-
D	Monitor	DELL	U2410	CN-0J257M-72872-0A6-02YL	Doc	-
E	Mouse	Microsoft	1113	9170515897028	FCC DOC Approved	-

No.	Signal Cable Description Of The Above Support Units
1.	HDMI Cable: 1m

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Items A, C acted as communication partners to transfer data.

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:

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

4.1.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Dec. 31, 2020	Dec. 30, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 16, 2020	Sep. 15, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 03, 2020	Nov. 02, 2021
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Loop Antenna EMCI	EM-6879	269	Sep. 17, 2020	Sep. 16, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Jun. 08, 2020	Jun. 07, 2021
Preamplifier KEYSIGHT (Above 1GHz)	83017A	MY53270295	Jun. 08, 2020	Jun. 07, 2021
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH4-01	Aug. 16, 2020	Aug. 15, 2021
RF Coaxial Cable EMCI	EMC102-KM-KM-3000	150929	Aug. 16, 2020	Aug. 15, 2021
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Jun. 08, 2020	Jun. 07, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Jun. 08, 2020	Jun. 07, 2021
Software BV ADT	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Sep. 04, 2020	Sep. 03, 2021
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55190004/MY55190007/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 4.

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:

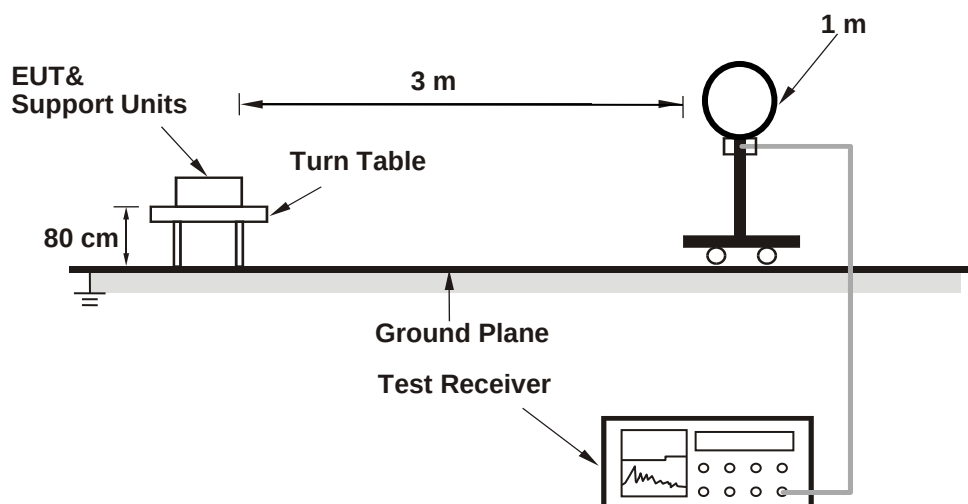
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) 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 $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
(11a: RBW = 1 MHz, VBW = 1 kHz ; 11ax (HE20): RBW = 1 MHz, VBW = 10 Hz ;
11ax (HE40): RBW = 1 MHz, VBW = 10 Hz ; 11ax (HE80): RBW = 1 MHz, VBW = 10 Hz ; 11ax (HE160): RBW = 1 MHz, VBW = 10 Hz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.5 Deviation from Test Standard

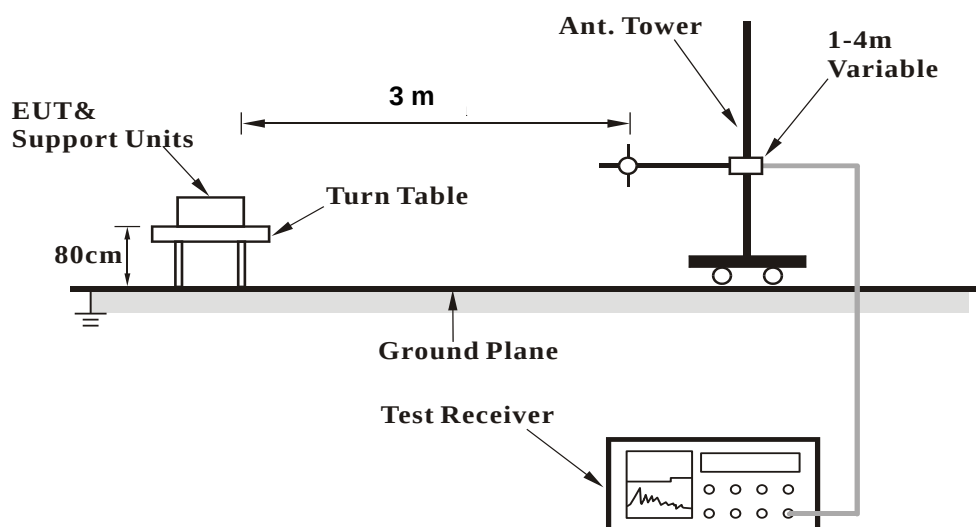
No deviation.

4.1.6 Test Setup

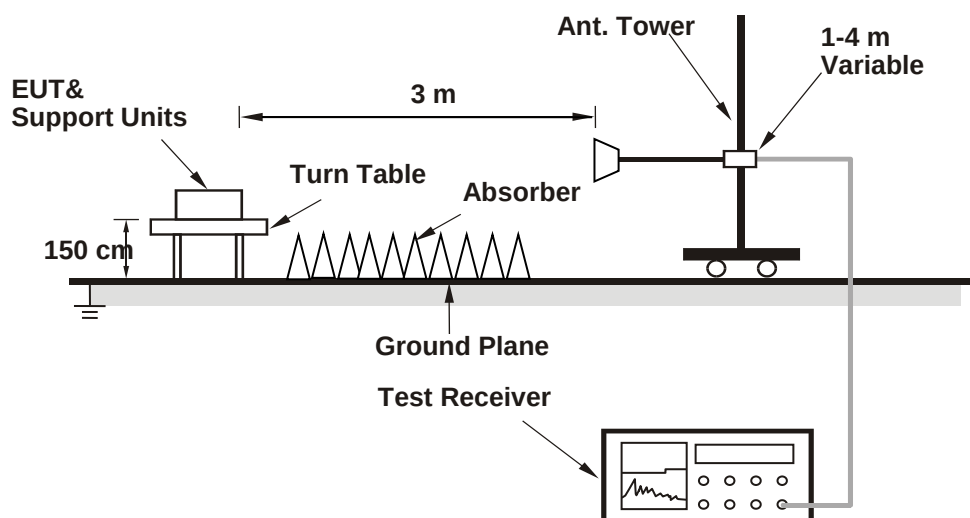
<Radiated Emission below 30 MHz>



<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

RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	1.00 H	202	54.9	3.2
2	5150.00	46.3 AV	54.0	-7.7	1.00 H	202	43.1	3.2
3	*5180.00	100.1 PK			1.00 H	202	59.4	40.7
4	*5180.00	91.7 AV			1.00 H	202	51.0	40.7
5	#10360.00	55.6 PK	68.2	-12.6	2.03 H	117	47.8	7.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.6 PK	74.0	-16.4	2.60 V	26	54.4	3.2
2	5150.00	46.0 AV	54.0	-8.0	2.60 V	26	42.8	3.2
3	*5180.00	97.4 PK			2.60 V	26	56.7	40.7
4	*5180.00	88.3 AV			2.60 V	26	47.6	40.7
5	#10360.00	55.3 PK	68.2	-12.9	1.96 V	103	47.5	7.8

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

RF Mode	TX 802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	100.3 PK			1.03 H	206	59.6	40.7
2	*5200.00	91.9 AV			1.03 H	206	51.2	40.7
3	#10400.00	55.8 PK	68.2	-12.4	1.96 H	115	47.9	7.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	97.6 PK			2.63 V	31	56.9	40.7
2	*5200.00	88.1 AV			2.63 V	31	47.4	40.7
3	#10400.00	55.2 PK	68.2	-13.0	1.84 V	105	47.3	7.9

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.

RF Mode	TX 802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	100.8 PK			1.00 H	205	60.1	40.7
2	*5240.00	92.1 AV			1.00 H	205	51.4	40.7
3	5350.00	57.5 PK	74.0	-16.5	1.00 H	205	54.7	2.8
4	5350.00	45.7 AV	54.0	-8.3	1.00 H	205	42.9	2.8
5	#10480.00	55.2 PK	68.2	-13.0	2.11 H	124	47.6	7.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	98.9 PK			2.56 V	26	58.2	40.7
2	*5240.00	89.3 AV			2.56 V	26	48.6	40.7
3	5350.00	56.9 PK	74.0	-17.1	2.56 V	26	54.1	2.8
4	5350.00	45.2 AV	54.0	-8.8	2.56 V	26	42.4	2.8
5	#10480.00	55.0 PK	68.2	-13.2	1.86 V	110	47.4	7.6

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.

RF Mode	TX 802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.7 PK	74.0	-17.3	1.00 H	204	53.4	3.3
2	5150.00	45.1 AV	54.0	-8.9	1.00 H	204	41.8	3.3
3	*5260.00	101.1 PK			1.00 H	204	60.3	40.8
4	*5260.00	90.8 AV			1.00 H	204	50.0	40.8
5	#10520.00	55.4 PK	68.2	-12.8	1.34 H	156	47.7	7.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.5 PK	74.0	-17.5	2.41 V	32	53.2	3.3
2	5150.00	44.8 AV	54.0	-9.2	2.41 V	32	41.5	3.3
3	*5260.00	98.7 PK			2.41 V	32	57.9	40.8
4	*5260.00	88.2 AV			2.41 V	32	47.4	40.8
5	#10520.00	55.2 PK	68.2	-13.0	1.91 V	116	47.5	7.7

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.

RF Mode	TX 802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	101.5 PK			1.02 H	206	60.7	40.8
2	*5300.00	91.2 AV			1.02 H	206	50.4	40.8
3	10600.00	55.5 PK	74.0	-18.5	1.37 H	152	47.7	7.8
4	10600.00	43.6 AV	54.0	-10.4	1.37 H	152	35.8	7.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	99.1 PK			2.44 V	30	58.3	40.8
2	*5300.00	88.4 AV			2.44 V	30	47.6	40.8
3	10600.00	55.4 PK	74.0	-18.6	1.94 V	121	47.6	7.8
4	10600.00	43.3 AV	54.0	-10.7	1.94 V	121	35.5	7.8

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.

RF Mode	TX 802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	100.6 PK			1.00 H	206	59.9	40.7
2	*5320.00	90.1 AV			1.00 H	206	49.4	40.7
3	5350.00	56.6 PK	74.0	-17.4	1.00 H	206	53.7	2.9
4	5350.00	44.7 AV	54.0	-9.3	1.00 H	206	41.8	2.9
5	10640.00	55.5 PK	74.0	-18.5	1.29 H	163	47.5	8.0
6	10640.00	43.8 AV	54.0	-10.2	1.29 H	163	35.8	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	98.4 PK			2.40 V	33	57.7	40.7
2	*5320.00	88.0 AV			2.40 V	33	47.3	40.7
3	5350.00	56.2 PK	74.0	-17.8	2.40 V	33	53.3	2.9
4	5350.00	44.3 AV	54.0	-9.7	2.40 V	33	41.4	2.9
5	10640.00	55.3 PK	74.0	-18.7	1.92 V	118	47.3	8.0
6	10640.00	43.5 AV	54.0	-10.5	1.92 V	118	35.5	8.0

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.

RF Mode	TX 802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.7 PK	74.0	-18.3	1.03 H	208	52.7	3.0
2	5460.00	44.2 AV	54.0	-9.8	1.03 H	208	41.2	3.0
3	#5470.00	56.3 PK	68.2	-11.9	1.03 H	208	53.3	3.0
4	*5500.00	99.4 PK			1.03 H	208	58.2	41.2
5	*5500.00	89.3 AV			1.03 H	208	48.1	41.2
6	11000.00	56.1 PK	74.0	-17.9	1.26 H	157	48.6	7.5
7	11000.00	43.9 AV	54.0	-10.1	1.26 H	157	36.4	7.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.3 PK	74.0	-18.7	2.40 V	27	52.3	3.0
2	5460.00	43.9 AV	54.0	-10.1	2.40 V	27	40.9	3.0
3	#5470.00	55.6 PK	68.2	-12.6	2.40 V	27	52.6	3.0
4	*5500.00	96.7 PK			2.40 V	27	55.5	41.2
5	*5500.00	86.4 AV			2.40 V	27	45.2	41.2
6	11000.00	55.7 PK	74.0	-18.3	1.88 V	123	48.2	7.5
7	11000.00	43.7 AV	54.0	-10.3	1.88 V	123	36.2	7.5

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.

RF Mode	TX 802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	99.7 PK			1.01 H	206	58.3	41.4
2	*5580.00	89.6 AV			1.01 H	206	48.2	41.4
3	11160.00	57.2 PK	74.0	-16.8	1.29 H	154	48.7	8.5
4	11160.00	44.3 AV	54.0	-9.7	1.29 H	154	35.8	8.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	96.9 PK			2.49 V	24	55.5	41.4
2	*5580.00	86.6 AV			2.49 V	24	45.2	41.4
3	11160.00	56.1 PK	74.0	-17.9	1.92 V	117	47.6	8.5
4	11160.00	43.8 AV	54.0	-10.2	1.92 V	117	35.3	8.5

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.

RF Mode	TX 802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	100.8 PK			1.03 H	211	58.8	42.0
2	*5700.00	90.6 AV			1.03 H	211	48.6	42.0
3	#5725.00	56.2 PK	68.2	-12.0	1.03 H	211	52.1	4.1
4	11400.00	56.7 PK	74.0	-17.3	1.35 H	162	48.3	8.4
5	11400.00	44.3 AV	54.0	-9.7	1.35 H	162	35.9	8.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	98.6 PK			2.47 V	32	56.6	42.0
2	*5700.00	88.3 AV			2.47 V	32	46.3	42.0
3	#5725.00	55.9 PK	68.2	-12.3	2.47 V	32	51.8	4.1
4	11400.00	56.3 PK	74.0	-17.7	1.96 V	126	47.9	8.4
5	11400.00	43.8 AV	54.0	-10.2	1.96 V	126	35.4	8.4

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.

RF Mode	TX 802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.2 PK	68.2	-12.0	1.02 H	210	53.2	3.0
2	*5720.00	100.7 PK			1.02 H	210	58.6	42.1
3	*5720.00	90.6 AV			1.02 H	210	48.5	42.1
4	#5850.00	56.5 PK	68.2	-11.7	1.02 H	210	52.1	4.4
5	11440.00	57.1 PK	74.0	-16.9	1.31 H	168	48.7	8.4
6	11440.00	44.5 AV	54.0	-9.5	1.31 H	168	36.1	8.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	55.9 PK	68.2	-12.3	2.51 V	28	52.9	3.0
2	*5720.00	98.7 PK			2.51 V	28	56.6	42.1
3	*5720.00	88.4 AV			2.51 V	28	46.3	42.1
4	#5850.00	56.1 PK	68.2	-12.1	2.51 V	28	51.7	4.4
5	11440.00	56.6 PK	74.0	-17.4	1.93 V	128	48.2	8.4
6	11440.00	43.9 AV	54.0	-10.1	1.93 V	128	35.5	8.4

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.

RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.40	58.8 PK	68.2	-9.4	1.01 H	210	55.0	3.8
2	*5745.00	101.2 PK			1.01 H	210	59.0	42.2
3	*5745.00	91.1 AV			1.01 H	210	48.9	42.2
4	#5954.80	59.5 PK	68.2	-8.7	1.01 H	210	54.9	4.6
5	11490.00	57.7 PK	74.0	-16.3	1.22 H	168	49.2	8.5
6	11490.00	45.0 AV	54.0	-9.0	1.22 H	168	36.5	8.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.40	58.3 PK	68.2	-9.9	1.00 V	263	54.5	3.8
2	*5745.00	97.3 PK			1.00 V	263	55.1	42.2
3	*5745.00	88.7 AV			1.00 V	263	46.5	42.2
4	#5974.40	58.1 PK	68.2	-10.1	1.00 V	263	53.5	4.6
5	11490.00	57.2 PK	74.0	-16.8	1.94 V	120	48.7	8.5
6	11490.00	43.9 AV	54.0	-10.1	1.94 V	120	35.4	8.5

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.

RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5633.60	57.9 PK	68.2	-10.3	1.00 H	211	54.2	3.7
2	*5785.00	100.8 PK			1.00 H	211	58.3	42.5
3	*5785.00	90.7 AV			1.00 H	211	48.2	42.5
4	#5991.60	59.3 PK	68.2	-8.9	1.00 H	211	54.6	4.7
5	11570.00	58.0 PK	74.0	-16.0	1.33 H	160	49.2	8.8
6	11570.00	45.0 AV	54.0	-9.0	1.33 H	160	36.2	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5625.20	58.9 PK	68.2	-9.3	1.00 V	241	55.2	3.7
2	*5785.00	98.5 PK			1.00 V	241	56.0	42.5
3	*5785.00	88.7 AV			1.00 V	241	46.2	42.5
4	#5979.20	58.9 PK	68.2	-9.3	1.00 V	241	54.3	4.6
5	11570.00	57.4 PK	74.0	-16.6	1.82 V	126	48.6	8.8
6	11570.00	44.7 AV	54.0	-9.3	1.82 V	126	35.9	8.8

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5607.60	58.9 PK	68.2	-9.3	1.06 H	211	55.4	3.5
2	*5825.00	100.1 PK			1.06 H	211	57.5	42.6
3	*5825.00	90.2 AV			1.06 H	211	47.6	42.6
4	#5974.40	59.3 PK	68.2	-8.9	1.06 H	211	54.7	4.6
5	11650.00	58.3 PK	74.0	-15.7	1.21 H	167	49.5	8.8
6	11650.00	45.0 AV	54.0	-9.0	1.21 H	167	36.2	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5620.00	59.7 PK	68.2	-8.5	1.00 V	261	56.1	3.6
2	*5825.00	96.8 PK			1.00 V	261	54.2	42.6
3	*5825.00	87.9 AV			1.00 V	261	45.3	42.6
4	#5942.80	60.2 PK	68.2	-8.0	1.00 V	261	55.7	4.5
5	11650.00	57.4 PK	74.0	-16.6	1.88 V	123	48.6	8.8
6	11650.00	44.7 AV	54.0	-9.3	1.88 V	123	35.9	8.8

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.0 PK	74.0	-16.0	1.00 H	202	54.8	3.2
2	5150.00	46.5 AV	54.0	-7.5	1.00 H	202	43.3	3.2
3	*5180.00	105.3 PK			1.00 H	202	64.6	40.7
4	*5180.00	95.1 AV			1.00 H	202	54.4	40.7
5	#10360.00	55.5 PK	68.2	-12.7	2.14 H	120	47.7	7.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.5 PK	74.0	-16.5	2.48 V	23	54.3	3.2
2	5150.00	45.9 AV	54.0	-8.1	2.48 V	23	42.7	3.2
3	*5180.00	99.2 PK			2.48 V	23	58.5	40.7
4	*5180.00	90.3 AV			2.48 V	23	49.6	40.7
5	#10360.00	55.4 PK	68.2	-12.8	1.97 V	108	47.6	7.8

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	105.4 PK			1.01 H	205	64.7	40.7
2	*5200.00	95.3 AV			1.01 H	205	54.6	40.7
3	#10400.00	55.7 PK	68.2	-12.5	2.10 H	127	47.8	7.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	99.3 PK			2.47 V	31	58.6	40.7
2	*5200.00	90.4 AV			2.47 V	31	49.7	40.7
3	#10400.00	55.2 PK	68.2	-13.0	1.99 V	103	47.3	7.9

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	106.4 PK			1.01 H	202	65.7	40.7
2	*5240.00	95.7 AV			1.01 H	202	55.0	40.7
3	5350.00	57.5 PK	74.0	-16.5	1.01 H	202	54.7	2.8
4	5350.00	46.4 AV	54.0	-7.6	1.01 H	202	43.6	2.8
5	#10480.00	55.4 PK	68.2	-12.8	2.11 H	123	47.8	7.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	100.8 PK			2.49 V	22	60.1	40.7
2	*5240.00	91.3 AV			2.49 V	22	50.6	40.7
3	5350.00	57.0 PK	74.0	-17.0	2.49 V	22	54.2	2.8
4	5350.00	45.9 AV	54.0	-8.1	2.49 V	22	43.1	2.8
5	#10480.00	55.0 PK	68.2	-13.2	1.99 V	103	47.4	7.6

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.7 PK	74.0	-17.3	1.05 H	205	53.4	3.3
2	5150.00	44.8 AV	54.0	-9.2	1.05 H	205	41.5	3.3
3	*5260.00	108.1 PK			1.05 H	205	67.3	40.8
4	*5260.00	95.2 AV			1.05 H	205	54.4	40.8
5	#10520.00	55.3 PK	68.2	-12.9	1.32 H	160	47.6	7.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.3 PK	74.0	-17.7	2.41 V	30	53.0	3.3
2	5150.00	44.2 AV	54.0	-9.8	2.41 V	30	40.9	3.3
3	*5260.00	102.9 PK			2.41 V	30	62.1	40.8
4	*5260.00	90.2 AV			2.41 V	30	49.4	40.8
5	#10520.00	55.1 PK	68.2	-13.1	1.95 V	120	47.4	7.7

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	107.8 PK			1.03 H	207	67.0	40.8
2	*5300.00	94.9 AV			1.03 H	207	54.1	40.8
3	10600.00	55.5 PK	74.0	-18.5	1.28 H	166	47.7	7.8
4	10600.00	43.6 AV	54.0	-10.4	1.28 H	166	35.8	7.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	102.7 PK			2.43 V	32	61.9	40.8
2	*5300.00	90.1 AV			2.43 V	32	49.3	40.8
3	10600.00	55.2 PK	74.0	-18.8	1.90 V	117	47.4	7.8
4	10600.00	43.4 AV	54.0	-10.6	1.90 V	117	35.6	7.8

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	107.6 PK			1.00 H	205	66.9	40.7
2	*5320.00	94.8 AV			1.00 H	205	54.1	40.7
3	5350.00	56.9 PK	74.0	-17.1	1.00 H	205	54.0	2.9
4	5350.00	45.1 AV	54.0	-8.9	1.00 H	205	42.2	2.9
5	10640.00	55.7 PK	74.0	-18.3	1.26 H	158	47.7	8.0
6	10640.00	43.9 AV	54.0	-10.1	1.26 H	158	35.9	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	102.3 PK			2.50 V	24	61.6	40.7
2	*5320.00	89.9 AV			2.50 V	24	49.2	40.7
3	5350.00	54.3 PK	74.0	-19.7	2.50 V	24	51.4	2.9
4	5350.00	44.4 AV	54.0	-9.6	2.50 V	24	41.5	2.9
5	10640.00	55.3 PK	74.0	-18.7	1.92 V	115	47.3	8.0
6	10640.00	43.4 AV	54.0	-10.6	1.92 V	115	35.4	8.0

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.8 PK	74.0	-18.2	1.04 H	207	52.8	3.0
2	5460.00	44.3 AV	54.0	-9.7	1.04 H	207	41.3	3.0
3	#5470.00	56.5 PK	68.2	-11.7	1.04 H	207	53.5	3.0
4	*5500.00	106.5 PK			1.04 H	207	65.3	41.2
5	*5500.00	93.5 AV			1.04 H	207	52.3	41.2
6	11000.00	56.2 PK	74.0	-17.8	1.28 H	162	48.7	7.5
7	11000.00	43.8 AV	54.0	-10.2	1.28 H	162	36.3	7.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.4 PK	74.0	-18.6	2.42 V	31	52.4	3.0
2	5460.00	44.0 AV	54.0	-10.0	2.42 V	31	41.0	3.0
3	#5470.00	55.8 PK	68.2	-12.4	2.42 V	31	52.8	3.0
4	*5500.00	101.4 PK			2.42 V	31	60.2	41.2
5	*5500.00	88.6 AV			2.42 V	31	47.4	41.2
6	11000.00	55.8 PK	74.0	-18.2	1.90 V	127	48.3	7.5
7	11000.00	43.4 AV	54.0	-10.6	1.90 V	127	35.9	7.5

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	106.8 PK			1.02 H	209	103.4	3.4
2	*5580.00	93.9 AV			1.02 H	209	90.5	3.4
3	11160.00	56.4 PK	74.0	-17.6	1.25 H	169	47.9	8.5
4	11160.00	44.1 AV	54.0	-9.9	1.25 H	169	35.6	8.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	101.1 PK			2.47 V	29	97.7	3.4
2	*5580.00	88.3 AV			2.47 V	29	84.9	3.4
3	11160.00	55.6 PK	74.0	-18.4	1.93 V	134	47.1	8.5
4	11160.00	43.5 AV	54.0	-10.5	1.93 V	134	35.0	8.5

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	109.4 PK			1.00 H	202	67.4	42.0
2	*5700.00	96.3 AV			1.00 H	202	54.3	42.0
3	#5725.00	59.3 PK	68.2	-8.9	1.00 H	202	55.2	4.1
4	11400.00	57.6 PK	74.0	-16.4	1.32 H	171	49.2	8.4
5	11400.00	44.8 AV	54.0	-9.2	1.32 H	171	36.4	8.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	103.9 PK			2.44 V	27	61.9	42.0
2	*5700.00	91.4 AV			2.44 V	27	49.4	42.0
3	#5725.00	56.8 PK	68.2	-11.4	2.44 V	27	52.7	4.1
4	11400.00	57.3 PK	74.0	-16.7	1.98 V	116	48.9	8.4
5	11400.00	44.5 AV	54.0	-9.5	1.98 V	116	36.1	8.4

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.7 PK	68.2	-11.5	1.06 H	203	53.7	3.0
2	*5720.00	109.3 PK			1.06 H	203	67.2	42.1
3	*5720.00	96.2 AV			1.06 H	203	54.1	42.1
4	#5850.00	57.1 PK	68.2	-11.1	1.06 H	203	52.7	4.4
5	11440.00	57.9 PK	74.0	-16.1	1.32 H	158	49.5	8.4
6	11440.00	45.1 AV	54.0	-8.9	1.32 H	158	36.7	8.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.1 PK	68.2	-12.1	2.48 V	32	53.1	3.0
2	*5720.00	104.2 PK			2.48 V	32	62.1	42.1
3	*5720.00	91.6 AV			2.48 V	32	49.5	42.1
4	#5825.00	56.3 PK	68.2	-11.9	2.48 V	32	51.9	4.4
5	11440.00	57.5 PK	74.0	-16.5	1.90 V	114	49.1	8.4
6	11440.00	44.7 AV	54.0	-9.3	1.90 V	114	36.3	8.4

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5611.60	58.6 PK	68.2	-9.6	1.00 H	205	55.1	3.5
2	*5745.00	107.7 PK			1.00 H	205	65.5	42.2
3	*5745.00	96.4 AV			1.00 H	205	54.2	42.2
4	#5953.20	59.4 PK	68.2	-8.8	1.00 H	205	54.8	4.6
5	11490.00	57.7 PK	74.0	-16.3	1.21 H	164	49.2	8.5
6	11490.00	44.5 AV	54.0	-9.5	1.21 H	164	36.0	8.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.60	57.8 PK	68.2	-10.4	1.00 V	241	54.0	3.8
2	*5745.00	103.9 PK			1.00 V	241	61.7	42.2
3	*5745.00	93.9 AV			1.00 V	241	51.7	42.2
4	#5998.80	58.2 PK	68.2	-10.0	1.00 V	241	53.4	4.8
5	11490.00	57.0 PK	74.0	-17.0	1.88 V	123	48.5	8.5
6	11490.00	44.2 AV	54.0	-9.8	1.88 V	123	35.7	8.5

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5624.80	57.8 PK	68.2	-10.4	1.00 H	203	54.2	3.6
2	*5785.00	106.4 PK			1.00 H	203	63.9	42.5
3	*5785.00	96.8 AV			1.00 H	203	54.3	42.5
4	#5985.60	58.3 PK	68.2	-9.9	1.00 H	203	53.6	4.7
5	11570.00	58.1 PK	74.0	-15.9	1.33 H	169	49.3	8.8
6	11570.00	45.0 AV	54.0	-9.0	1.33 H	169	36.2	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5622.00	58.3 PK	68.2	-9.9	1.00 V	249	54.7	3.6
2	*5785.00	103.5 PK			1.00 V	249	61.0	42.5
3	*5785.00	93.3 AV			1.00 V	249	50.8	42.5
4	#5969.20	58.3 PK	68.2	-9.9	1.00 V	249	53.7	4.6
5	11570.00	57.4 PK	74.0	-16.6	1.92 V	114	48.6	8.8
6	11570.00	44.3 AV	54.0	-9.7	1.92 V	114	35.5	8.8

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.40	59.1 PK	68.2	-9.1	1.00 H	188	55.3	3.8
2	*5825.00	107.0 PK			1.00 H	188	64.4	42.6
3	*5825.00	96.2 AV			1.00 H	188	53.6	42.6
4	#5964.80	59.3 PK	68.2	-8.9	1.00 H	188	54.7	4.6
5	11650.00	58.1 PK	74.0	-15.9	1.26 H	161	49.3	8.8
6	11650.00	45.0 AV	54.0	-9.0	1.26 H	161	36.2	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5635.20	59.0 PK	68.2	-9.2	1.00 V	267	55.3	3.7
2	*5825.00	103.9 PK			1.00 V	267	61.3	42.6
3	*5825.00	93.7 AV			1.00 V	267	51.1	42.6
4	#5968.40	59.4 PK	68.2	-8.8	1.00 V	267	54.8	4.6
5	11650.00	57.7 PK	74.0	-16.3	1.92 V	109	48.9	8.8
6	11650.00	44.7 AV	54.0	-9.3	1.92 V	109	35.9	8.8

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.7 PK	74.0	-16.3	1.00 H	202	54.5	3.2
2	5150.00	46.1 AV	54.0	-7.9	1.00 H	202	42.9	3.2
3	*5190.00	103.7 PK			1.00 H	202	63.0	40.7
4	*5190.00	92.0 AV			1.00 H	202	51.3	40.7
5	#10380.00	55.4 PK	68.2	-12.8	2.11 H	109	47.5	7.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.4 PK	74.0	-16.6	2.47 V	24	54.2	3.2
2	5150.00	45.7 AV	54.0	-8.3	2.47 V	24	42.5	3.2
3	*5190.00	97.8 PK			2.47 V	24	57.1	40.7
4	*5190.00	87.1 AV			2.47 V	24	46.4	40.7
5	#10380.00	55.4 PK	68.2	-12.8	1.99 V	105	47.5	7.9

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	103.2 PK			1.00 H	202	62.5	40.7
2	*5230.00	92.0 AV			1.00 H	202	51.3	40.7
3	5350.00	57.5 PK	74.0	-16.5	1.00 H	202	54.7	2.8
4	5350.00	46.4 AV	54.0	-7.6	1.00 H	202	43.6	2.8
5	#10460.00	54.9 PK	68.2	-13.3	2.36 H	104	47.3	7.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	96.4 PK			2.44 V	25	55.7	40.7
2	*5230.00	85.8 AV			2.44 V	25	45.1	40.7
3	5350.00	57.0 PK	74.0	-17.0	2.44 V	25	54.2	2.8
4	5350.00	45.4 AV	54.0	-8.6	2.44 V	25	42.6	2.8
5	#10460.00	55.1 PK	68.2	-13.1	1.99 V	117	47.5	7.6

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.9 PK	74.0	-17.1	1.01 H	204	53.6	3.3
2	5150.00	45.1 AV	54.0	-8.9	1.01 H	204	41.8	3.3
3	*5270.00	105.6 PK			1.01 H	204	64.8	40.8
4	*5270.00	92.1 AV			1.01 H	204	51.3	40.8
5	#10540.00	55.5 PK	68.2	-12.7	1.37 H	165	47.8	7.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.4 PK	74.0	-17.6	2.48 V	26	53.1	3.3
2	5150.00	44.4 AV	54.0	-9.6	2.48 V	26	41.1	3.3
3	*5270.00	100.7 PK			2.48 V	26	59.9	40.8
4	*5270.00	88.1 AV			2.48 V	26	47.3	40.8
5	#10540.00	55.3 PK	68.2	-12.9	1.98 V	113	47.6	7.7

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	104.3 PK			1.01 H	220	63.6	40.7
2	*5310.00	91.4 AV			1.01 H	220	50.7	40.7
3	5350.00	56.6 PK	74.0	-17.4	1.01 H	220	53.7	2.9
4	5350.00	44.7 AV	54.0	-9.3	1.01 H	220	41.8	2.9
5	10620.00	55.6 PK	74.0	-18.4	1.33 H	167	47.7	7.9
6	10620.00	43.7 AV	54.0	-10.3	1.33 H	167	35.8	7.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	100.9 PK			2.51 V	23	60.2	40.7
2	*5310.00	88.4 AV			2.51 V	23	47.7	40.7
3	5350.00	56.3 PK	74.0	-17.7	2.51 V	23	53.4	2.9
4	5350.00	44.5 AV	54.0	-9.5	2.51 V	23	41.6	2.9
5	10620.00	55.2 PK	74.0	-18.8	1.89 V	118	47.3	7.9
6	10620.00	43.3 AV	54.0	-10.7	1.89 V	118	35.4	7.9

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.6 PK	74.0	-18.4	1.00 H	207	52.6	3.0
2	5460.00	44.1 AV	54.0	-9.9	1.00 H	207	41.1	3.0
3	#5470.00	57.3 PK	68.2	-10.9	1.00 H	207	54.3	3.0
4	*5510.00	102.9 PK			1.00 H	207	61.7	41.2
5	*5510.00	89.8 AV			1.00 H	207	48.6	41.2
6	11020.00	56.7 PK	74.0	-17.3	1.26 H	164	49.1	7.6
7	11020.00	44.2 AV	54.0	-9.8	1.26 H	164	36.6	7.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.2 PK	74.0	-18.8	2.41 V	33	52.2	3.0
2	5460.00	43.7 AV	54.0	-10.3	2.41 V	33	40.7	3.0
3	#5470.00	56.6 PK	68.2	-11.6	2.41 V	33	53.6	3.0
4	*5510.00	97.6 PK			2.41 V	33	56.4	41.2
5	*5510.00	84.4 AV			2.41 V	33	43.2	41.2
6	11020.00	56.4 PK	74.0	-17.6	1.89 V	125	48.8	7.6
7	11020.00	43.8 AV	54.0	-10.2	1.89 V	125	36.2	7.6

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	102.7 PK			1.01 H	208	61.3	41.4
2	*5550.00	89.5 AV			1.01 H	208	48.1	41.4
3	11100.00	57.1 PK	74.0	-16.9	1.31 H	160	48.8	8.3
4	11100.00	44.5 AV	54.0	-9.5	1.31 H	160	36.2	8.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	97.9 PK			2.49 V	29	56.5	41.4
2	*5550.00	84.7 AV			2.49 V	29	43.3	41.4
3	11100.00	56.6 PK	74.0	-17.4	1.92 V	133	48.3	8.3
4	11100.00	44.0 AV	54.0	-10.0	1.92 V	133	35.7	8.3

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	105.7 PK			1.00 H	203	63.8	41.9
2	*5670.00	92.4 AV			1.00 H	203	50.5	41.9
3	#5725.00	58.1 PK	68.2	-10.1	1.00 H	203	54.0	4.1
4	11340.00	57.3 PK	74.0	-16.7	1.38 H	167	48.8	8.5
5	11340.00	44.2 AV	54.0	-9.8	1.38 H	167	35.7	8.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	101.1 PK			2.39 V	31	59.2	41.9
2	*5670.00	87.9 AV			2.39 V	31	46.0	41.9
3	#5725.00	56.8 PK	68.2	-11.4	2.39 V	31	52.7	4.1
4	11340.00	56.9 PK	74.0	-17.1	1.87 V	124	48.4	8.5
5	11340.00	43.8 AV	54.0	-10.2	1.87 V	124	35.3	8.5

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.5 PK	68.2	-11.7	1.00 H	204	53.5	3.0
2	*5710.00	105.7 PK			1.00 H	204	63.7	42.0
3	*5710.00	92.0 AV			1.00 H	204	50.0	42.0
4	#5850.00	56.8 PK	68.2	-11.4	1.00 H	204	52.4	4.4
5	11420.00	57.5 PK	74.0	-16.5	1.31 H	165	49.1	8.4
6	11420.00	44.4 AV	54.0	-9.6	1.31 H	165	36.0	8.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.1 PK	68.2	-12.1	1.00 V	242	53.1	3.0
2	*5710.00	101.4 PK			1.00 V	242	59.4	42.0
3	*5710.00	88.2 AV			1.00 V	242	46.2	42.0
4	#5850.00	56.3 PK	68.2	-11.9	1.00 V	242	51.9	4.4
5	11420.00	57.1 PK	74.0	-16.9	1.94 V	118	48.7	8.4
6	11420.00	44.0 AV	54.0	-10.0	1.94 V	118	35.6	8.4

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5605.20	58.4 PK	68.2	-9.8	1.00 H	203	54.9	3.5
2	*5755.00	104.2 PK			1.00 H	203	62.0	42.2
3	*5755.00	93.8 AV			1.00 H	203	51.6	42.2
4	#5944.00	58.7 PK	68.2	-9.5	1.00 H	203	54.2	4.5
5	11550.00	57.8 PK	74.0	-16.2	1.28 H	159	49.1	8.7
6	11550.00	44.7 AV	54.0	-9.3	1.28 H	159	36.0	8.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5617.20	58.1 PK	68.2	-10.1	1.00 V	239	54.5	3.6
2	*5755.00	101.4 PK			1.00 V	239	59.2	42.2
3	*5755.00	91.0 AV			1.00 V	239	48.8	42.2
4	#5980.80	59.6 PK	68.2	-8.6	1.00 V	239	55.0	4.6
5	11510.00	57.4 PK	74.0	-16.6	1.91 V	112	48.8	8.6
6	11510.00	44.3 AV	54.0	-9.7	1.91 V	112	35.7	8.6

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5606.00	58.6 PK	68.2	-9.6	1.01 H	203	55.1	3.5
2	*5795.00	104.8 PK			1.01 H	203	62.2	42.6
3	*5795.00	93.8 AV			1.01 H	203	51.2	42.6
4	#5934.00	58.7 PK	68.2	-9.5	1.01 H	203	54.2	4.5
5	11590.00	58.0 PK	74.0	-16.0	1.22 H	167	49.2	8.8
6	11590.00	45.3 AV	54.0	-8.7	1.22 H	167	36.5	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.80	59.2 PK	68.2	-9.0	1.00 V	241	55.4	3.8
2	*5795.00	101.8 PK			1.00 V	241	59.2	42.6
3	*5795.00	90.7 AV			1.00 V	241	48.1	42.6
4	#5996.40	58.6 PK	68.2	-9.6	1.00 V	241	53.8	4.8
5	11590.00	57.5 PK	74.0	-16.5	1.96 V	121	48.7	8.8
6	11590.00	44.6 AV	54.0	-9.4	1.96 V	121	35.8	8.8

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.9 PK	74.0	-15.1	1.03 H	201	55.7	3.2
2	5150.00	47.7 AV	54.0	-6.3	1.03 H	201	44.5	3.2
3	*5210.00	102.4 PK			1.03 H	201	61.7	40.7
4	*5210.00	89.2 AV			1.03 H	201	48.5	40.7
5	5350.00	57.4 PK	74.0	-16.6	1.03 H	201	54.6	2.8
6	5350.00	46.3 AV	54.0	-7.7	1.03 H	201	43.5	2.8
7	#10420.00	55.7 PK	68.2	-12.5	2.03 H	118	47.9	7.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.8 PK	74.0	-16.2	2.45 V	26	54.6	3.2
2	5150.00	46.4 AV	54.0	-7.6	2.45 V	26	43.2	3.2
3	*5210.00	95.4 PK			2.45 V	26	54.7	40.7
4	*5210.00	84.1 AV			2.45 V	26	43.4	40.7
5	5350.00	57.4 PK	74.0	-16.6	2.45 V	26	54.6	2.8
6	5350.00	46.0 AV	54.0	-8.0	2.45 V	26	43.2	2.8
7	#10420.00	55.1 PK	68.2	-13.1	1.83 V	114	47.3	7.8

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	102.3 PK			1.03 H	203	61.5	40.8
2	*5290.00	89.1 AV			1.03 H	203	48.3	40.8
3	5350.00	57.2 PK	74.0	-16.8	1.03 H	203	54.3	2.9
4	5350.00	45.5 AV	54.0	-8.5	1.03 H	203	42.6	2.9
5	#10580.00	55.3 PK	68.2	-12.9	1.33 H	169	47.6	7.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	95.9 PK			2.50 V	34	55.1	40.8
2	*5290.00	82.7 AV			2.50 V	34	41.9	40.8
3	5350.00	56.6 PK	74.0	-17.4	2.50 V	34	53.7	2.9
4	5350.00	44.9 AV	54.0	-9.1	2.50 V	34	42.0	2.9
5	#10580.00	54.9 PK	68.2	-13.3	1.91 V	116	47.2	7.7

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.

RF Mode	TX 802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.2 PK	74.0	-15.8	1.00 H	204	55.2	3.0
2	5460.00	46.3 AV	54.0	-7.7	1.00 H	204	43.3	3.0
3	#5470.00	58.6 PK	68.2	-9.6	1.00 H	204	55.6	3.0
4	*5530.00	100.8 PK			1.00 H	204	59.5	41.3
5	*5530.00	88.3 AV			1.00 H	204	47.0	41.3
6	11060.00	57.2 PK	74.0	-16.8	1.25 H	157	49.2	8.0
7	11060.00	44.1 AV	54.0	-9.9	1.25 H	157	36.1	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.6 PK	74.0	-17.4	1.00 V	223	53.6	3.0
2	5460.00	46.4 AV	54.0	-7.6	1.00 V	223	43.4	3.0
3	#5470.00	58.2 PK	68.2	-10.0	1.00 V	223	55.2	3.0
4	*5530.00	96.2 PK			1.00 V	223	54.9	41.3
5	*5530.00	84.6 AV			1.00 V	223	43.3	41.3
6	11060.00	56.6 PK	74.0	-17.4	1.82 V	124	48.6	8.0
7	11060.00	43.7 AV	54.0	-10.3	1.82 V	124	35.7	8.0

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.

RF Mode	TX 802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	101.4 PK			1.00 H	204	59.9	41.5
2	*5610.00	89.5 AV			1.00 H	204	48.0	41.5
3	#5725.00	59.0 PK	68.2	-9.2	1.00 H	204	54.9	4.1
4	11220.00	58.0 PK	74.0	-16.0	1.24 H	153	49.3	8.7
5	11220.00	44.8 AV	54.0	-9.2	1.24 H	153	36.1	8.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	96.7 PK			1.00 V	231	55.2	41.5
2	*5610.00	86.2 AV			1.00 V	231	44.7	41.5
3	#5725.00	59.1 PK	68.2	-9.1	1.00 V	231	55.0	4.1
4	11220.00	57.2 PK	74.0	-16.8	1.89 V	113	48.5	8.7
5	11220.00	43.9 AV	54.0	-10.1	1.89 V	113	35.2	8.7

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.

RF Mode	TX 802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	57.5 PK	68.2	-10.7	1.00 H	202	54.5	3.0
2	*5690.00	101.7 PK			1.00 H	202	59.7	42.0
3	*5690.00	91.0 AV			1.00 H	202	49.0	42.0
4	#5850.00	59.5 PK	68.2	-8.7	1.00 H	202	55.1	4.4
5	11380.00	57.5 PK	74.0	-16.5	1.29 H	164	49.0	8.5
6	11380.00	44.8 AV	54.0	-9.2	1.29 H	164	36.3	8.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	57.7 PK	68.2	-10.5	1.00 V	260	54.7	3.0
2	*5690.00	97.8 PK			1.00 V	260	55.8	42.0
3	*5690.00	86.9 AV			1.00 V	260	44.9	42.0
4	#5850.00	59.7 PK	68.2	-8.5	1.00 V	260	55.3	4.4
5	11380.00	57.0 PK	74.0	-17.0	1.86 V	112	48.5	8.5
6	11380.00	43.9 AV	54.0	-10.1	1.86 V	112	35.4	8.5

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.

RF Mode	TX 802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5631.20	60.4 PK	68.2	-7.8	1.02 H	203	56.7	3.7
2	*5775.00	103.2 PK			1.02 H	203	60.7	42.5
3	*5775.00	91.0 AV			1.02 H	203	48.5	42.5
4	#5948.40	60.4 PK	68.2	-7.8	1.02 H	203	55.8	4.6
5	11550.00	57.7 PK	74.0	-16.3	1.29 H	163	49.0	8.7
6	11550.00	44.7 AV	54.0	-9.3	1.29 H	163	36.0	8.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.40	58.4 PK	68.2	-9.8	1.00 V	250	54.6	3.8
2	*5775.00	98.2 PK			1.00 V	250	55.7	42.5
3	*5775.00	88.1 AV			1.00 V	250	45.6	42.5
4	#5930.80	58.9 PK	68.2	-9.3	1.00 V	250	54.4	4.5
5	11550.00	57.2 PK	74.0	-16.8	1.83 V	125	48.5	8.7
6	11550.00	44.4 AV	54.0	-9.6	1.83 V	125	35.7	8.7

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.

RF Mode	TX 802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.6 PK	74.0	-17.4	1.04 H	204	53.3	3.3
2	5150.00	45.1 AV	54.0	-8.9	1.04 H	204	41.8	3.3
3	*5250.00	100.6 PK			1.04 H	204	59.8	40.8
4	*5250.00	89.9 AV			1.04 H	204	49.1	40.8
5	5350.00	57.1 PK	74.0	-16.9	1.04 H	204	54.2	2.9
6	5350.00	45.8 AV	54.0	-8.2	1.04 H	204	42.9	2.9
7	#10500.00	55.5 PK	68.2	-12.7	1.32 H	169	47.9	7.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.1 PK	74.0	-17.9	2.40 V	23	52.8	3.3
2	5150.00	44.7 AV	54.0	-9.3	2.40 V	23	41.4	3.3
3	*5250.00	95.5 PK			2.40 V	23	54.7	40.8
4	*5250.00	84.7 AV			2.40 V	23	43.9	40.8
5	5350.00	56.7 PK	74.0	-17.3	2.40 V	23	53.8	2.9
6	5350.00	45.3 AV	54.0	-8.7	2.40 V	23	42.4	2.9
7	#10500.00	55.1 PK	68.2	-13.1	1.95 V	122	47.5	7.7

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.

RF Mode	TX 802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.8 PK	68.2	-11.4	1.01 H	204	53.8	3.0
2	*5570.00	96.8 PK			1.01 H	204	55.4	41.4
3	*5570.00	86.7 AV			1.01 H	204	45.3	41.4
4	#5725.00	57.7 PK	68.2	-10.5	1.01 H	204	53.6	4.1
5	11140.00	57.6 PK	74.0	-16.4	1.29 H	152	49.2	8.4
6	11140.00	44.5 AV	54.0	-9.5	1.29 H	152	36.1	8.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.6 PK	68.2	-11.6	1.00 V	241	53.6	3.0
2	*5570.00	94.8 PK			1.00 V	241	53.4	41.4
3	*5570.00	83.3 AV			1.00 V	241	41.9	41.4
4	#5725.00	57.0 PK	68.2	-11.2	1.00 V	241	52.9	4.1
5	11140.00	56.9 PK	74.0	-17.1	1.94 V	102	48.5	8.4
6	11140.00	44.1 AV	54.0	-9.9	1.94 V	102	35.7	8.4

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.

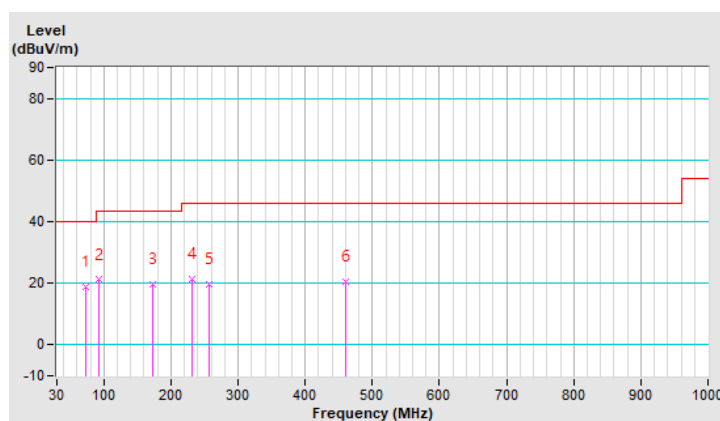
Below 1GHz Worst-Case Data:

RF Mode	TX 802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	72.17	19.0 QP	40.0	-21.0	1.00 H	265	40.3	-21.3
2	93.26	21.1 QP	43.5	-22.4	1.50 H	146	44.9	-23.8
3	173.39	19.8 QP	43.5	-23.7	1.50 H	116	38.7	-18.9
4	231.03	21.5 QP	46.0	-24.5	2.00 H	283	42.2	-20.7
5	256.33	19.7 QP	46.0	-26.3	1.00 H	105	39.0	-19.3
6	460.17	20.5 QP	46.0	-25.5	1.50 H	92	33.9	-13.4

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 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.

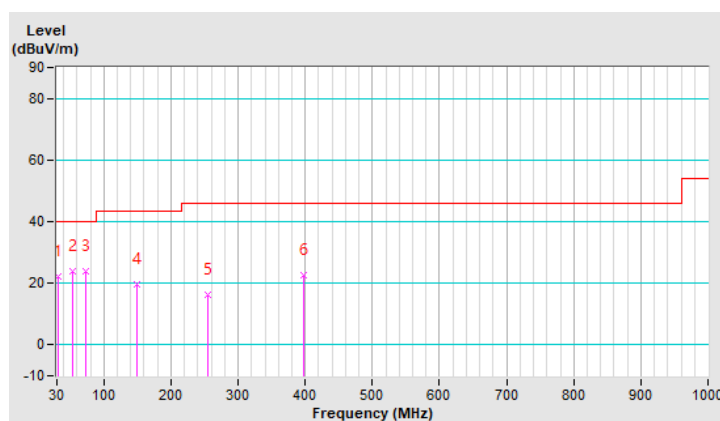


RF Mode	TX 802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.41	22.1 QP	40.0	-17.9	2.00 V	351	41.7	-19.6
2	53.90	23.8 QP	40.0	-16.2	1.50 V	18	42.3	-18.5
3	72.17	24.1 QP	40.0	-15.9	2.00 V	282	45.4	-21.3
4	149.49	19.6 QP	43.5	-23.9	1.50 V	196	37.6	-18.0
5	254.93	16.3 QP	46.0	-29.7	1.00 V	4	35.7	-19.4
6	398.32	22.6 QP	46.0	-23.4	1.50 V	155	37.9	-15.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 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. 04, 2020	Dec. 03, 2021
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Jan. 16, 2021	Jan. 15, 2022
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 25, 2021	Feb. 24, 2022
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 28, 2020	Aug. 27, 2021
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 (Conduction 1).
 3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

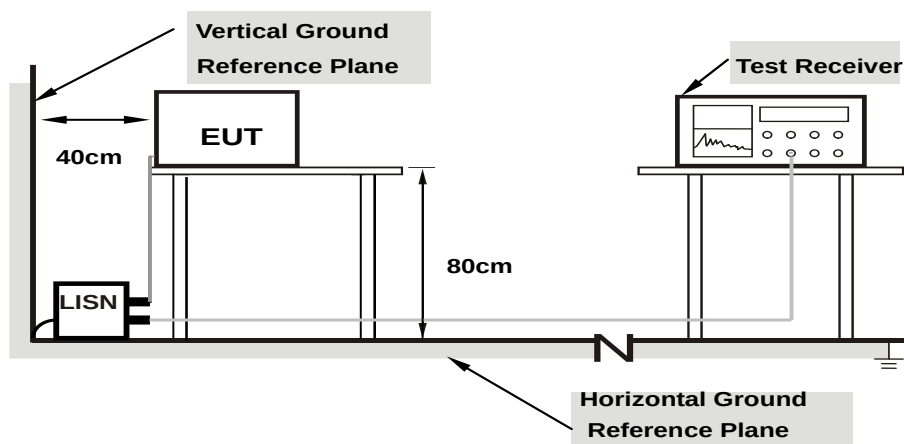
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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.

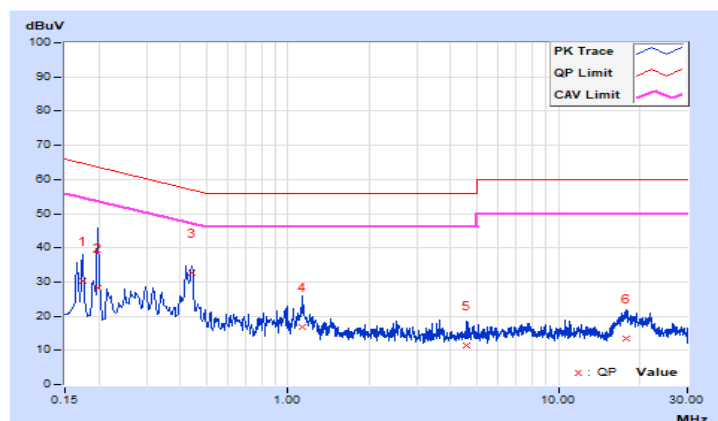
4.2.7 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 75%RH
Tested by	Edison Lee	Test Date	2021/4/29

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	0.17400	9.71	20.52	1.94	30.23	11.65	64.77	54.77	-34.54	-43.12
2	0.19800	9.71	18.44	2.06	28.15	11.77	63.69	53.69	-35.54	-41.92
3	0.44177	9.73	22.80	10.15	32.53	19.88	57.03	47.03	-24.50	-27.15
4	1.13800	9.76	7.16	1.52	16.92	11.28	56.00	46.00	-39.08	-34.72
5	4.56600	9.80	1.65	0.30	11.45	10.10	56.00	46.00	-44.55	-35.90
6	17.71400	9.82	3.69	0.02	13.51	9.84	60.00	50.00	-46.49	-40.16

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

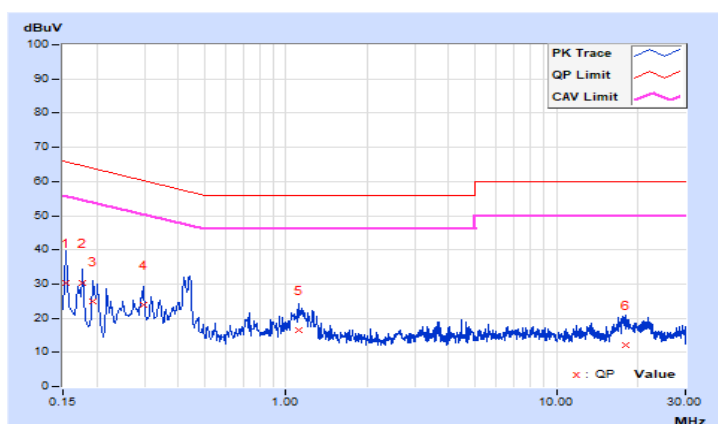


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 75%RH
Tested by	Edison Lee	Test Date	2021/4/29

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	0.15400	9.77	20.44	2.22	30.21	11.99	65.78	55.78	-35.57	-43.79
2	0.17800	9.77	20.54	2.41	30.31	12.18	64.58	54.58	-34.27	-42.40
3	0.19400	9.77	15.15	1.20	24.92	10.97	63.86	53.86	-38.94	-42.89
4	0.29800	9.78	14.07	3.25	23.85	13.03	60.30	50.30	-36.45	-37.27
5	1.11400	9.82	6.73	1.35	16.55	11.17	56.00	46.00	-39.45	-34.83
6	17.96200	9.97	2.07	1.43	12.04	11.40	60.00	50.00	-47.96	-38.60

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



5 Pictures of Test Arrangements

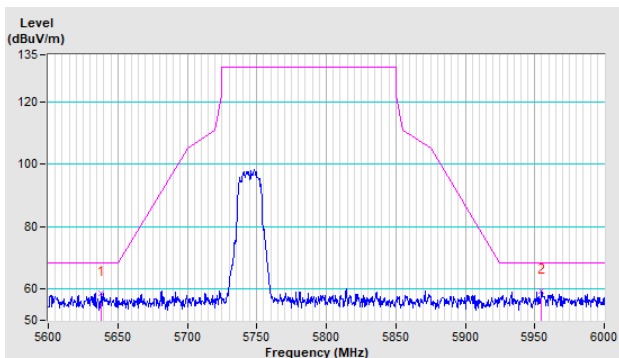
Please refer to the attached file (Test Setup Photo).

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

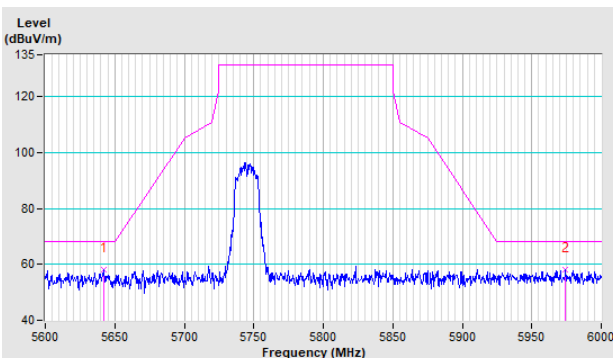
802.11a

CH 149 5745 MHz

Horizontal

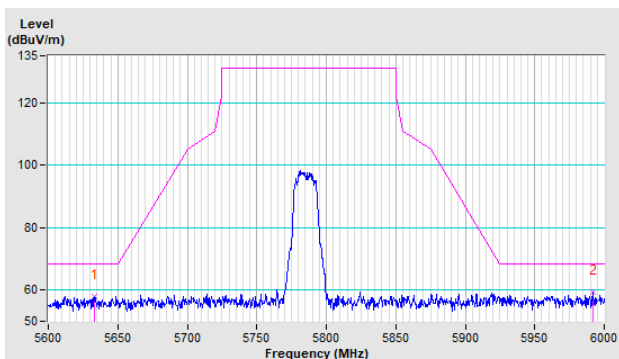


Vertical

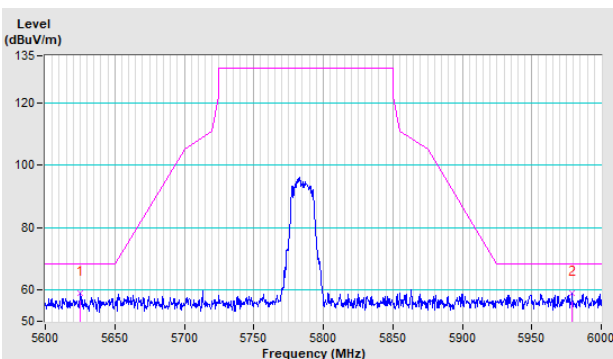


CH 157 5785 MHz

Horizontal

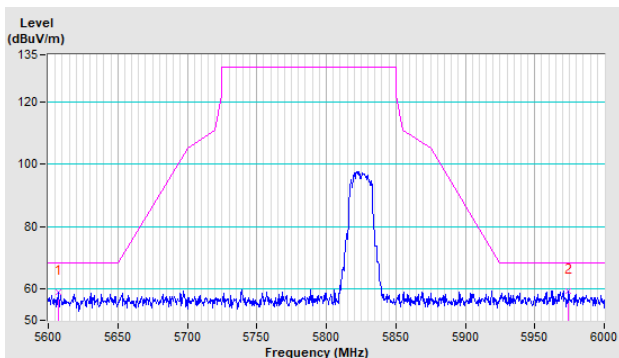


Vertical

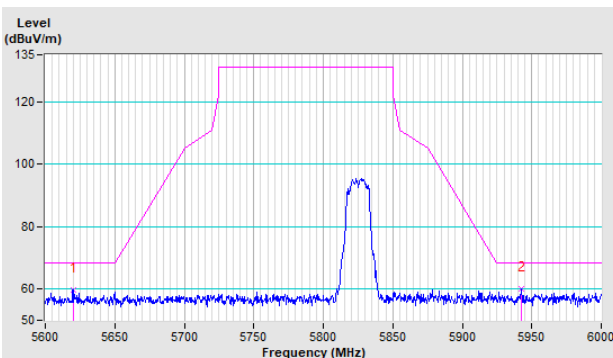


CH 165 5825 MHz

Horizontal



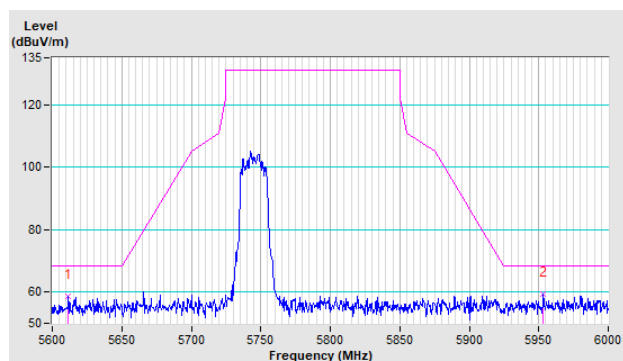
Vertical



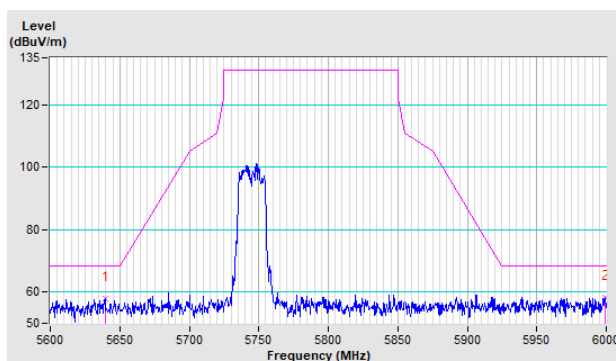
802.11ax (HE20)

CH 149 5745 MHz

Horizontal

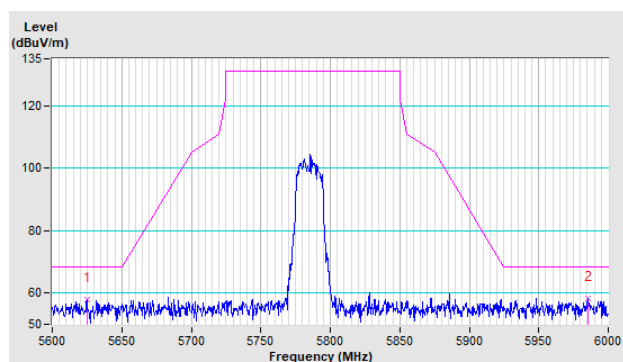


Vertical

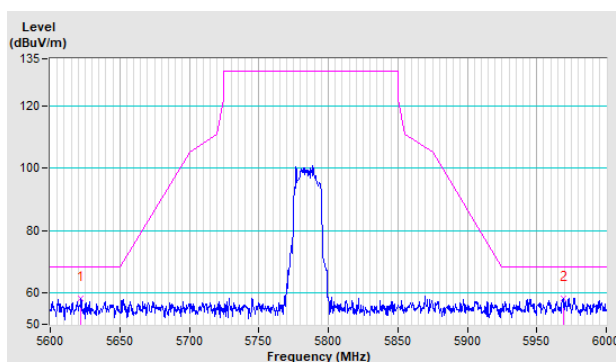


CH 157 5785 MHz

Horizontal

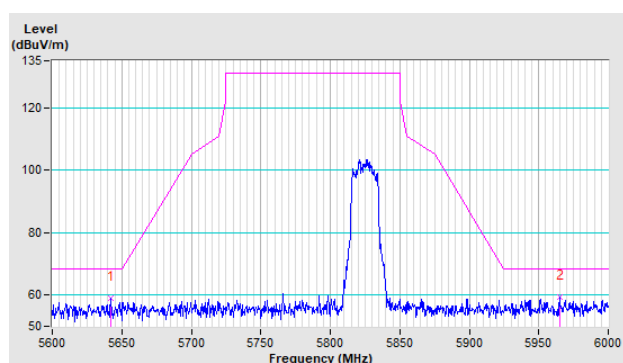


Vertical

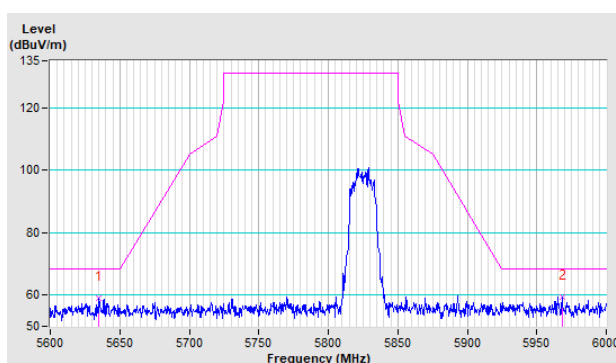


CH 165 5825 MHz

Horizontal



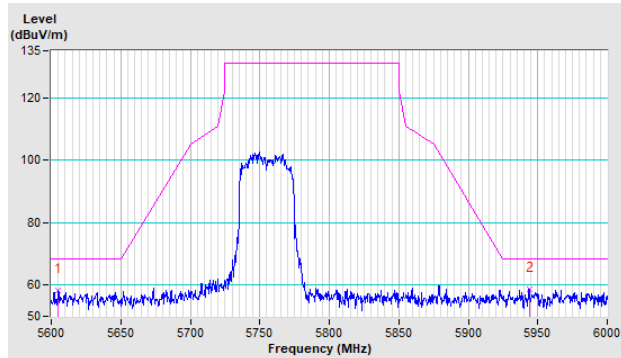
Vertical



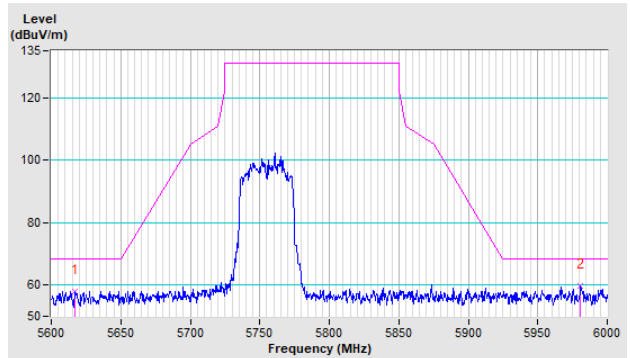
802.11ax (HE40)

CH 151 5755 MHz

Horizontal

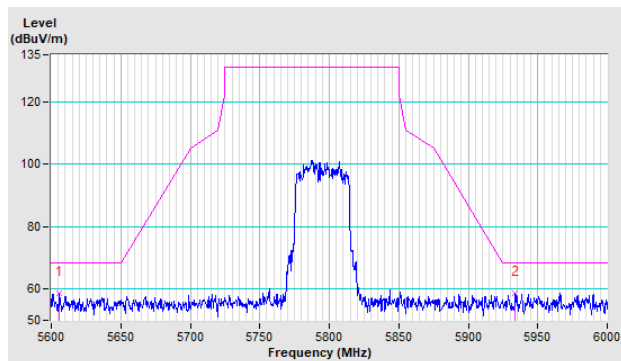


Vertical

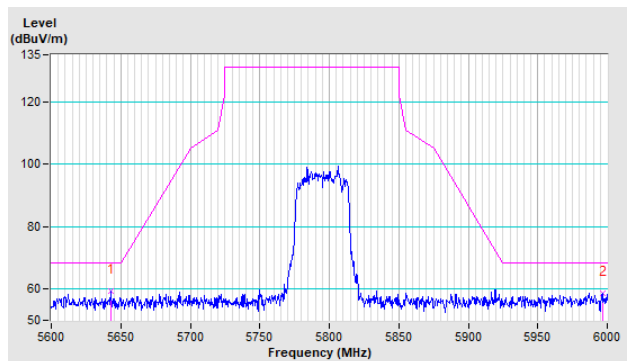


CH 159 5795 MHz

Horizontal



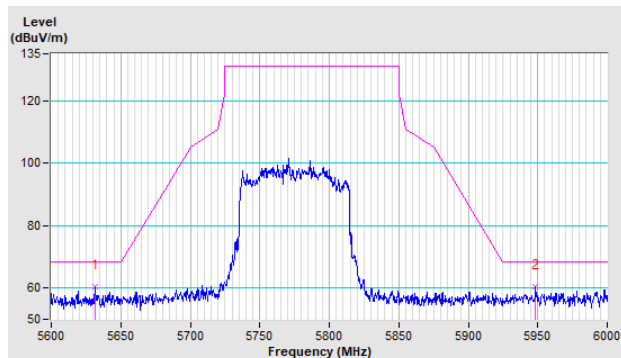
Vertical



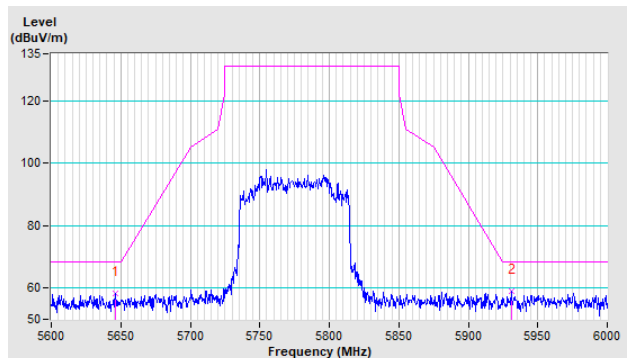
802.11ax (HE80)

CH 155 5775 MHz

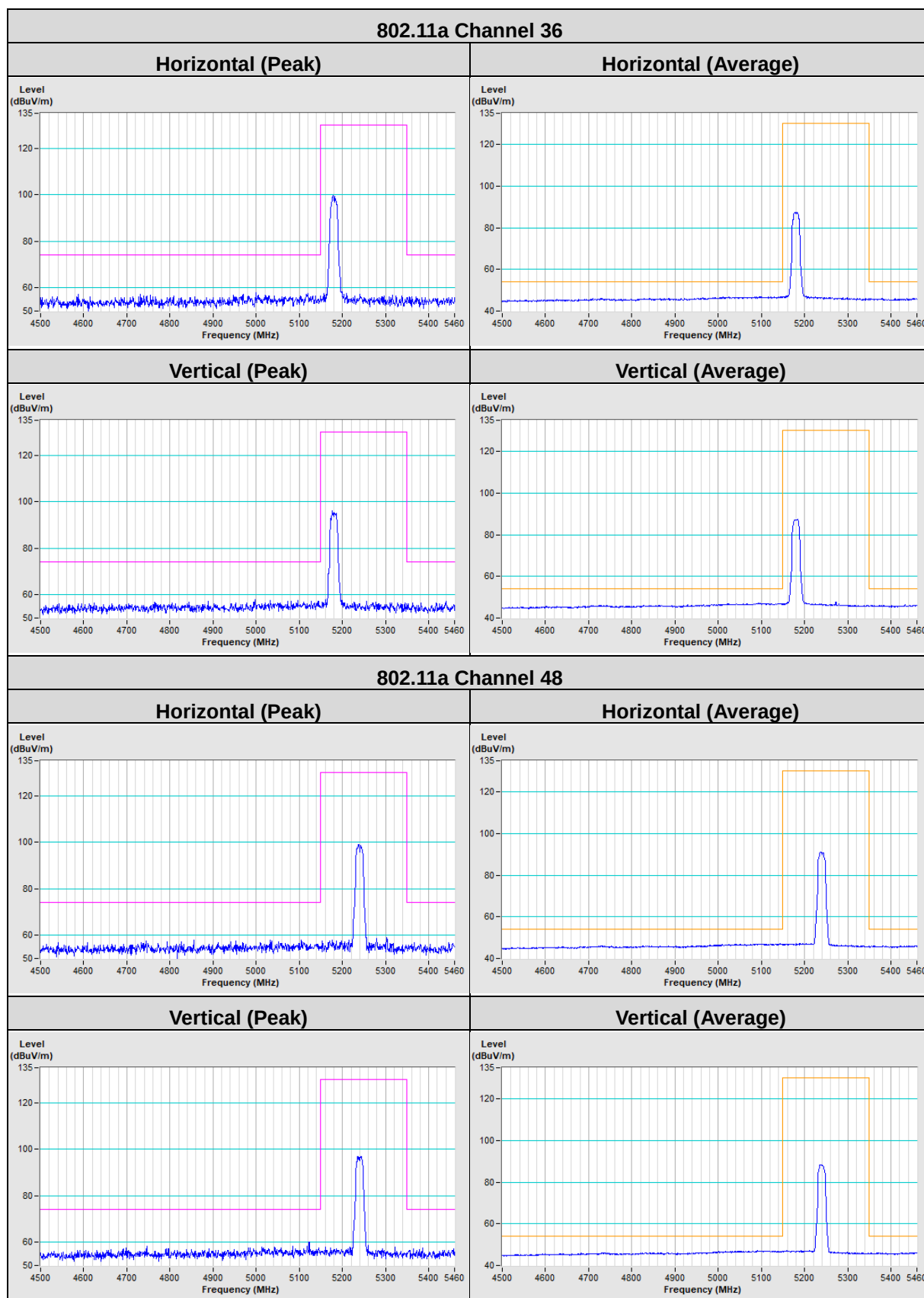
Horizontal

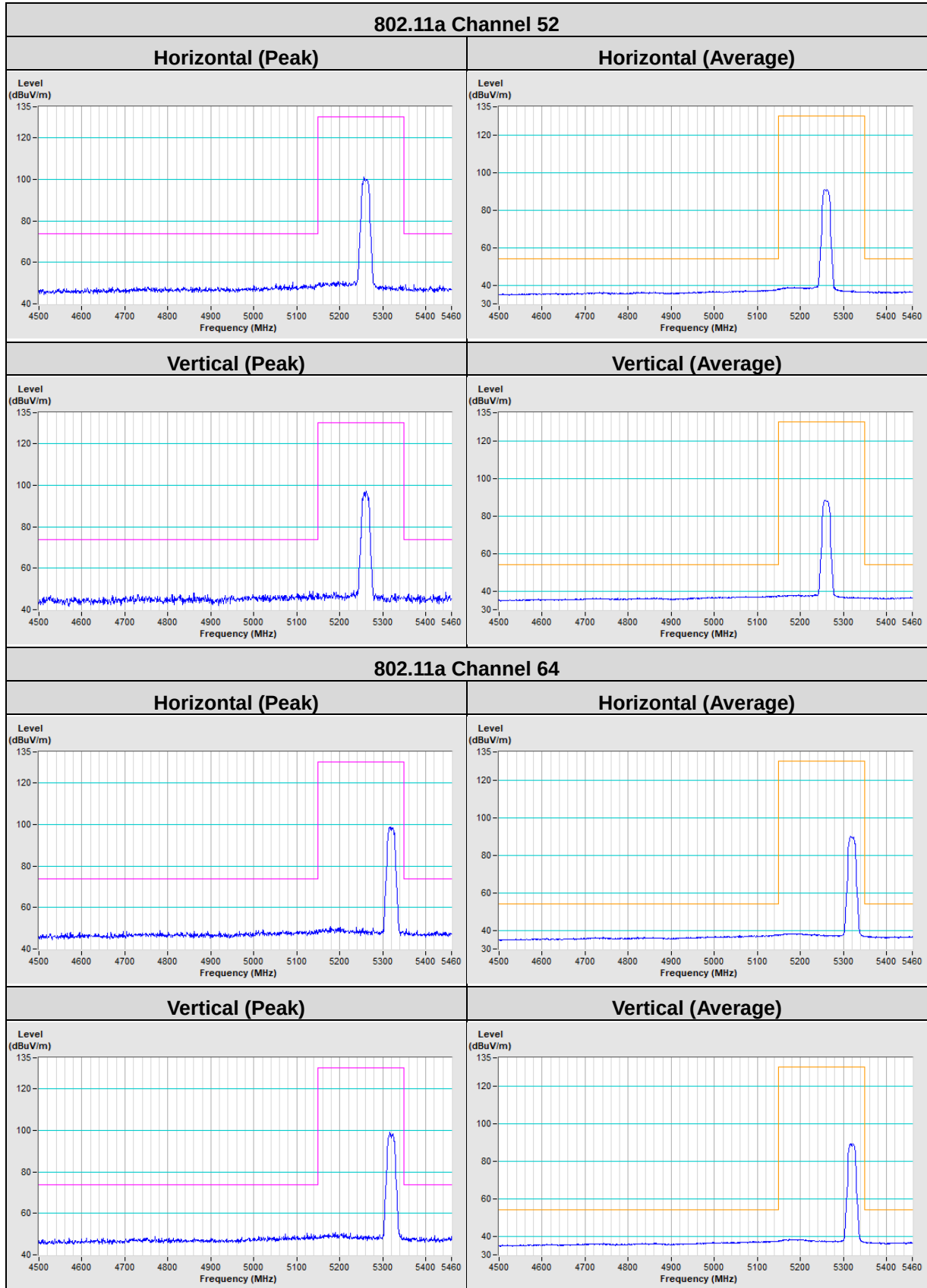


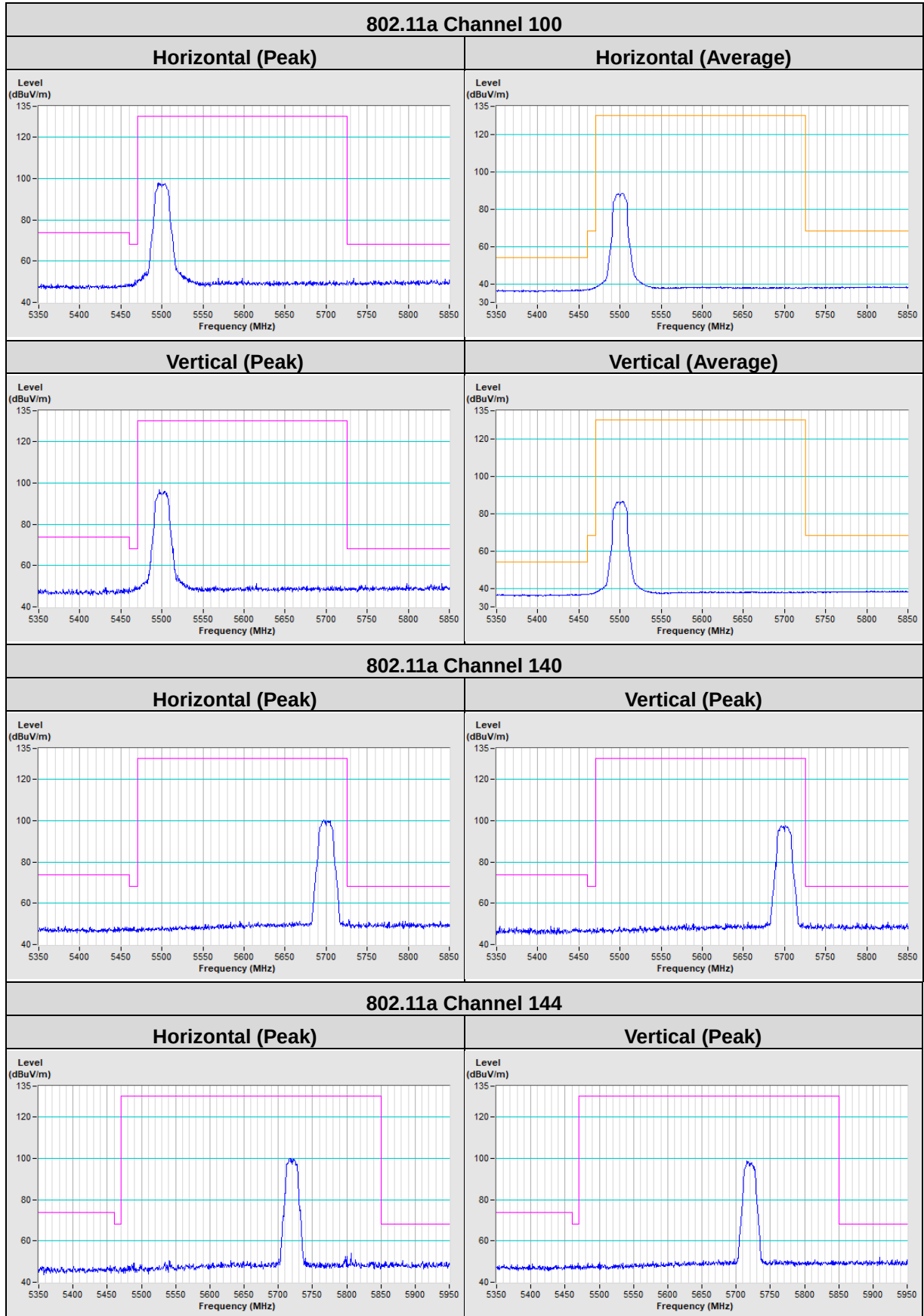
Vertical

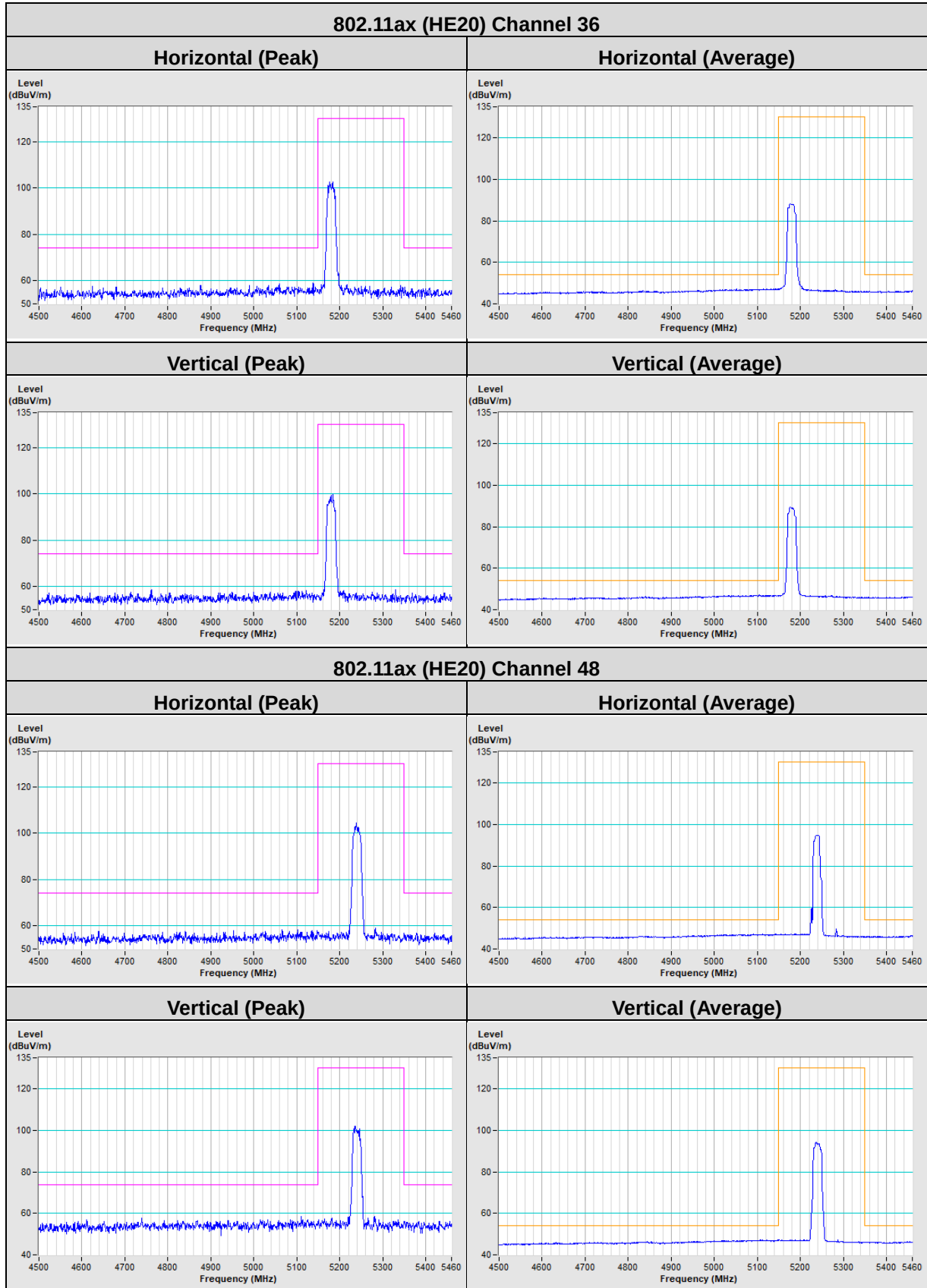


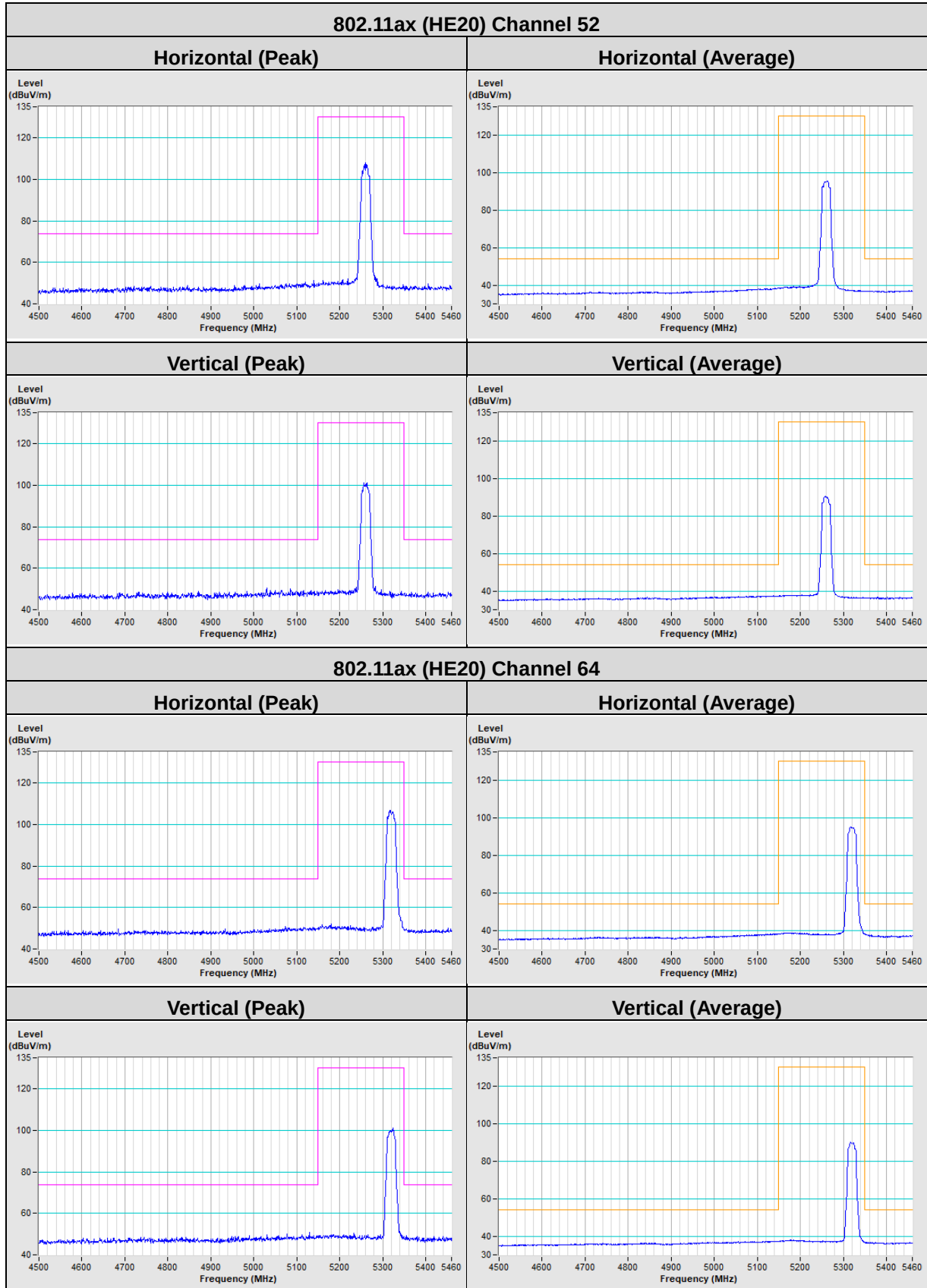
Annex B- Band-edge measurement

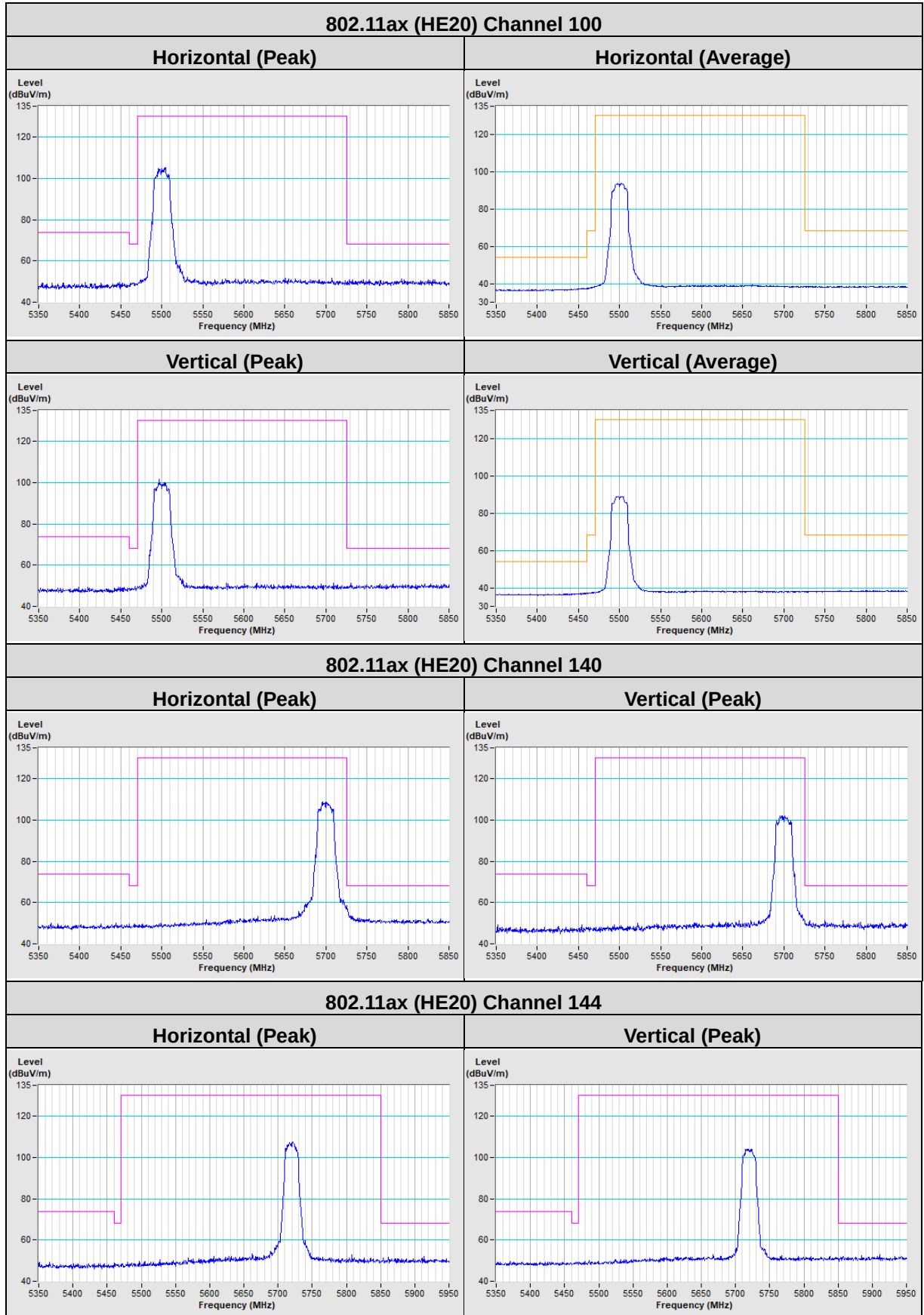


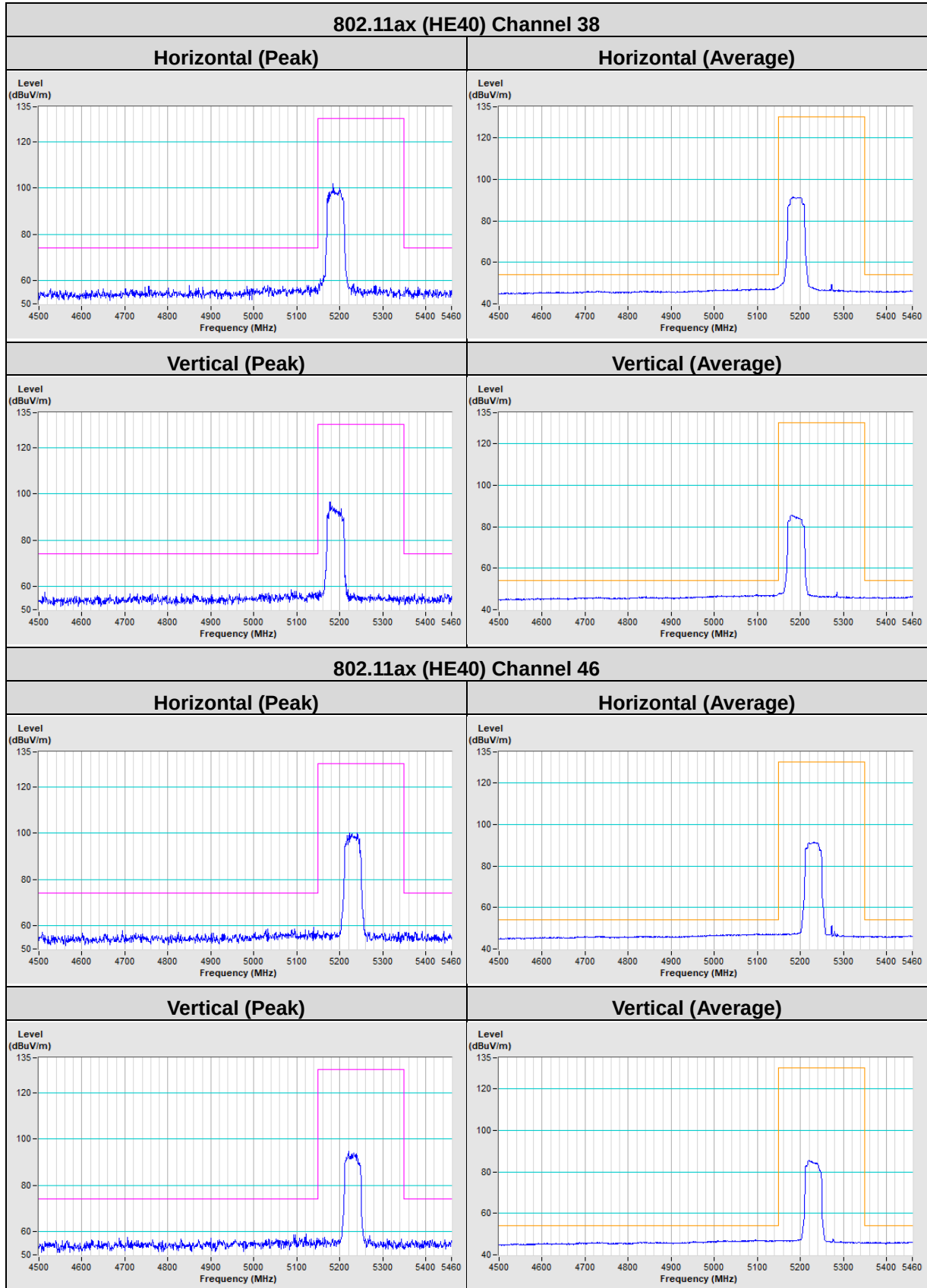


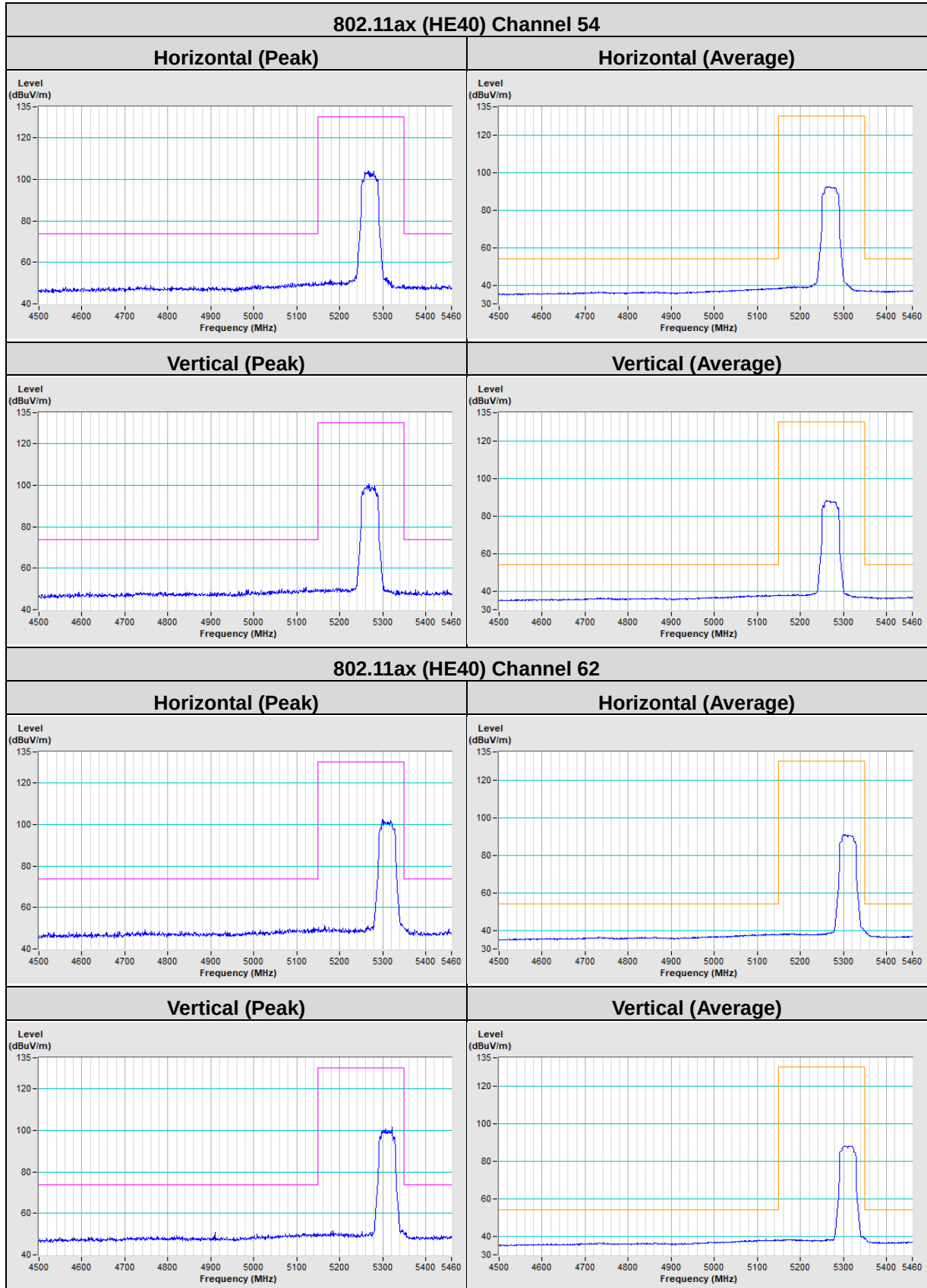


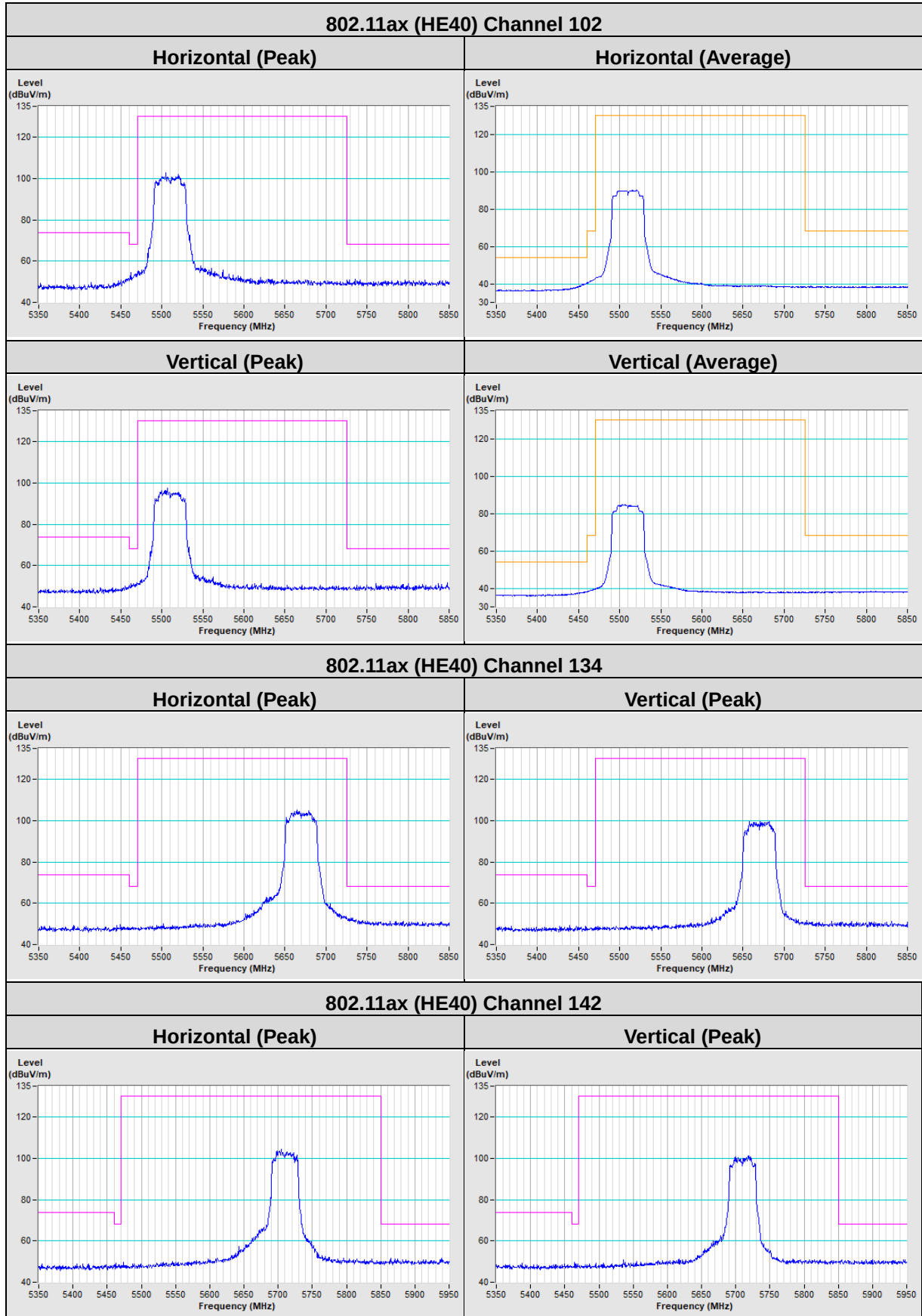


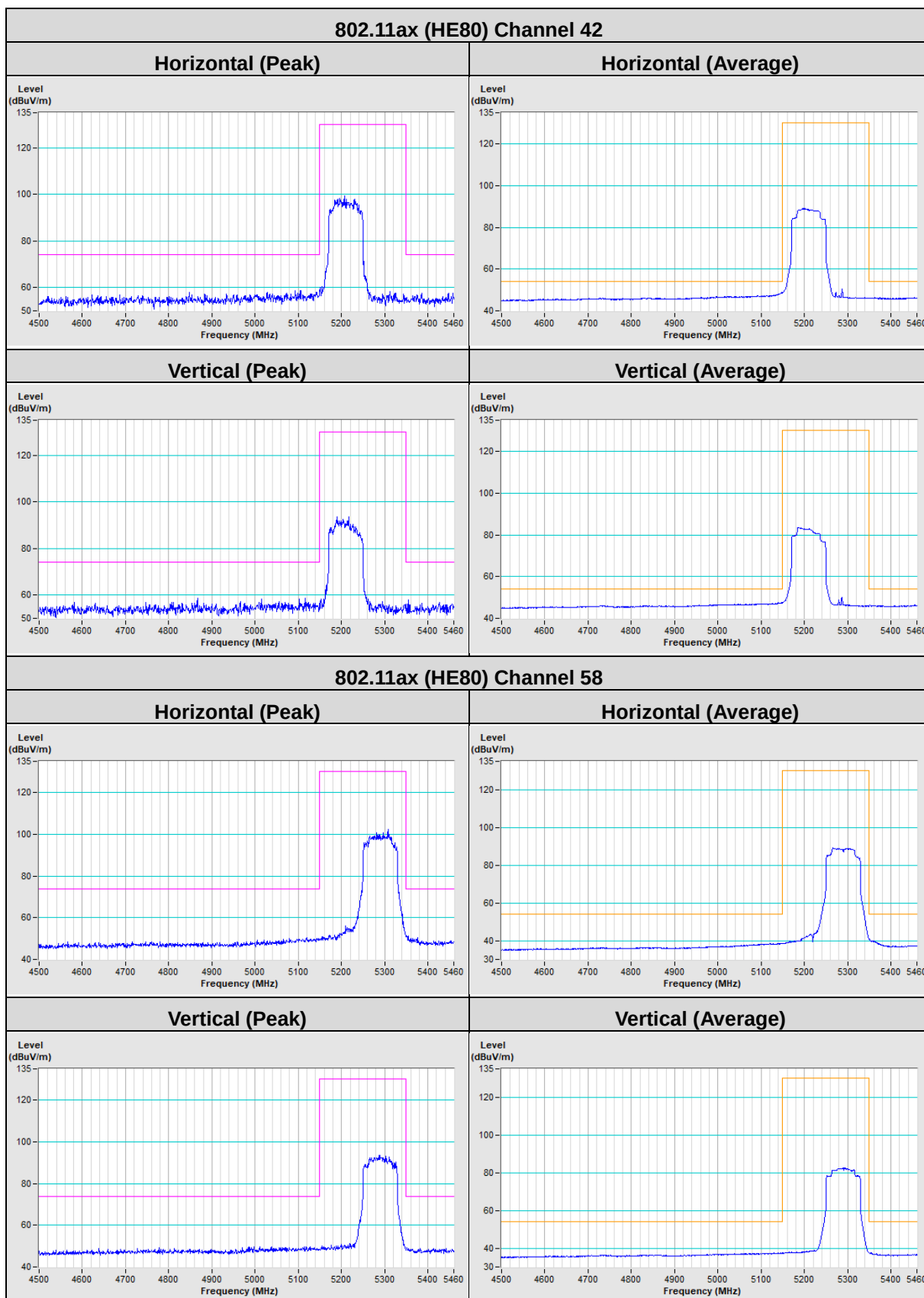


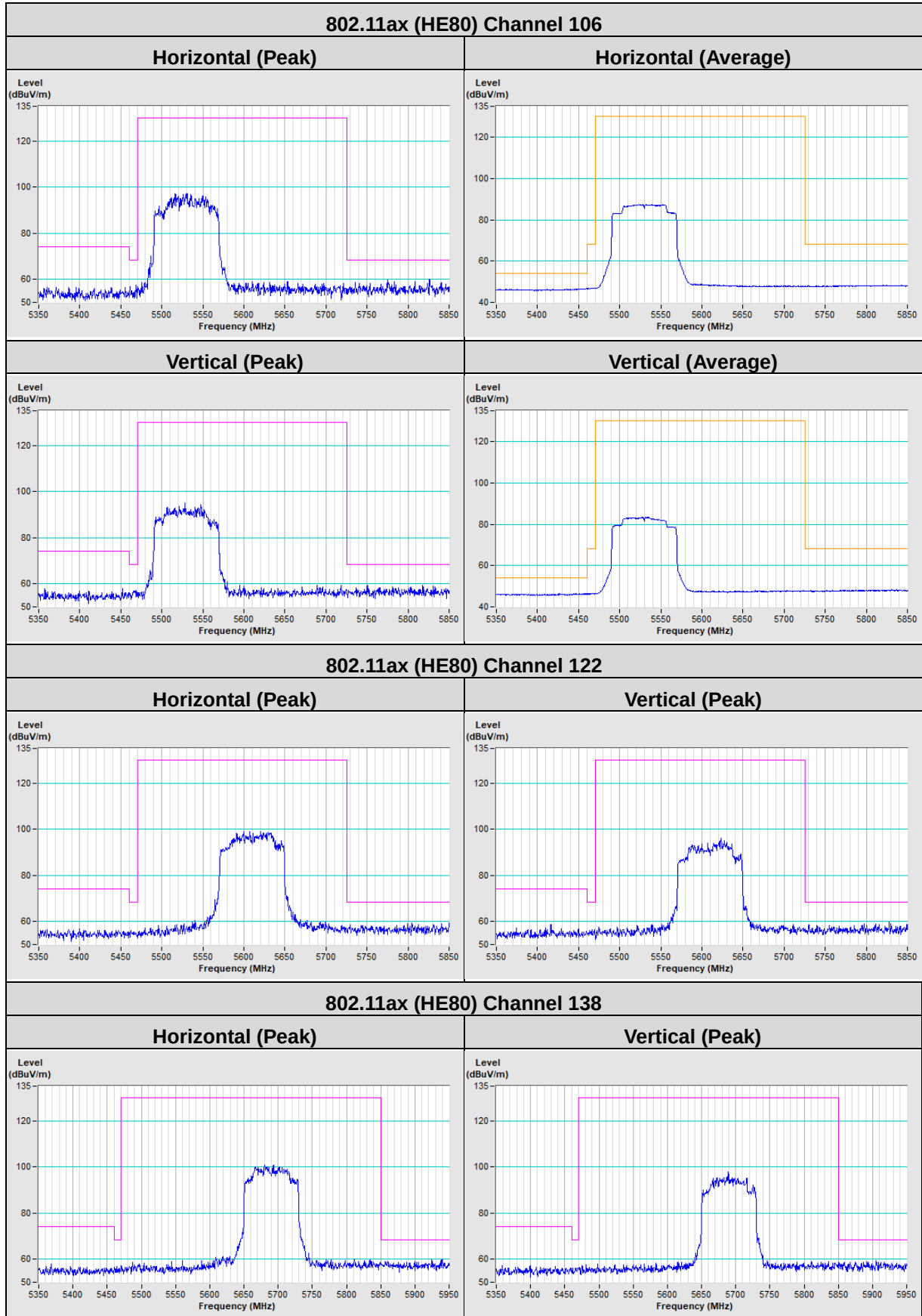






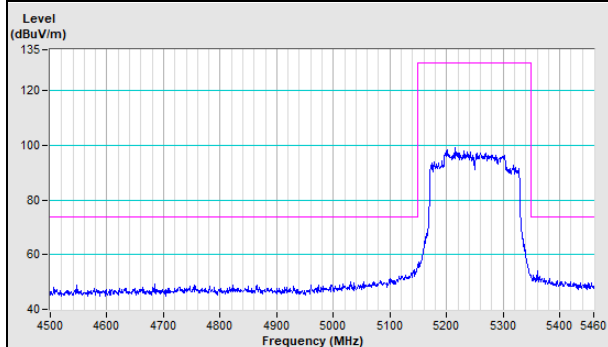




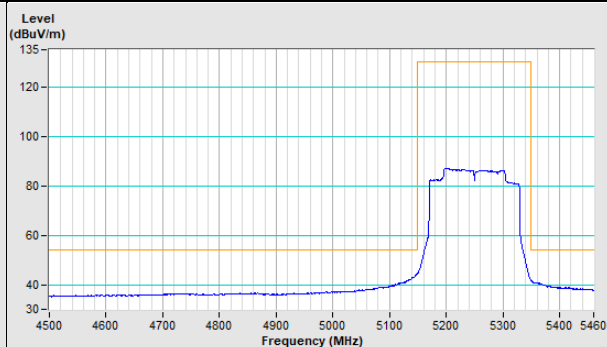


802.11ax (HE160) Channel 50

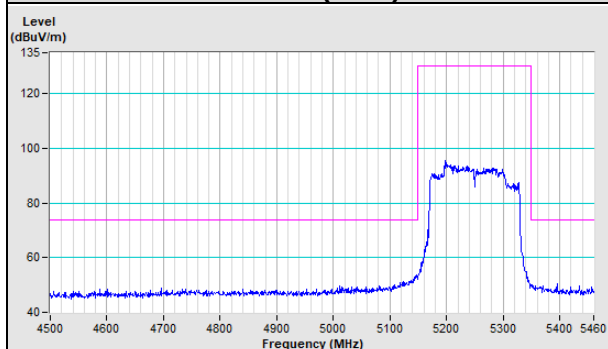
Horizontal (Peak)



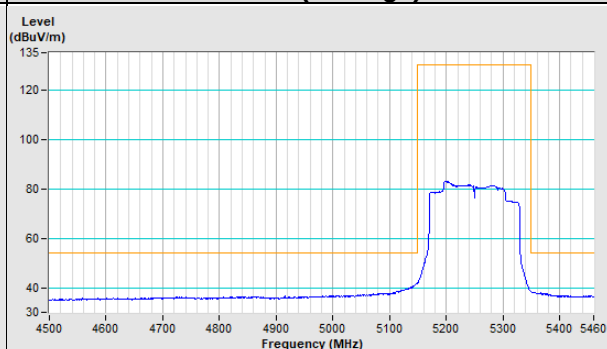
Horizontal (Average)



Vertical (Peak)

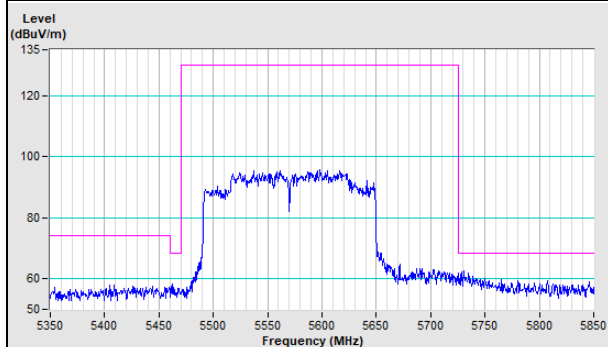


Vertical (Average)

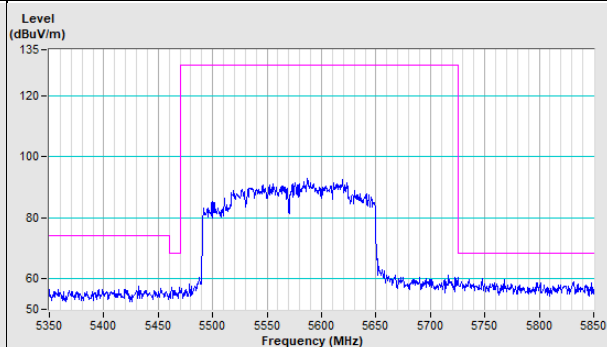


802.11ax (HE160) Channel 114

Horizontal (Peak)



Vertical (Peak)



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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Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

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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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