

FCC Test Report

Report No.: RFBARR-WTW-P20110181K-1

FCC ID: RAS-MT7921K

Test Model: MT7921K

Received Date: 2021/10/21

Test Date: 2021/10/21 ~ 2022/2/14

Issued Date: 2022/2/16

Applicant: MediaTek Inc.

Address: No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City 30078, Taiwan

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan

**FCC Registration /
Designation Number:** 723255 / TW2022



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

Table of Contents

Release Control Record	3
1 Certificate of Conformity.....	4
2 Summary of Test Results	5
2.1 Measurement Uncertainty	5
2.2 Modification Record	5
3 General Information.....	6
3.1 General Description of EUT	6
3.2 Description of Test Modes	9
3.2.1 Test Mode Applicability and Tested Channel Detail	11
3.3 Duty Cycle of Test Signal	13
3.4 Description of Support Units	14
3.4.1 Configuration of System under Test	15
3.5 General Description of Applied Standards and References	16
4 Test Types and Results	17
4.1 Radiated Emission and Bandedge Measurement.....	17
4.1.1 Limits of Radiated Emission and Bandedge Measurement	17
4.1.2 Test Instruments	18
4.1.3 Test Procedure	21
4.1.4 Deviation from Test Standard	21
4.1.5 Test Setup.....	22
4.1.6 EUT Operating Condition	23
4.1.7 Test Results (Mode 1).....	24
4.1.8 Test Results (Mode 2).....	46
4.2 Transmit Power Measurement	68
4.2.1 Limits of Transmit Power Measurement	68
4.2.2 Test Setup.....	68
4.2.3 Test Instruments	69
4.2.4 Test Procedure	69
4.2.5 Deviation from Test Standard	69
4.2.6 EUT Operating Condition	69
4.2.7 Test Results	70
5 Pictures of Test Arrangements.....	81
Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)	82
Annex A.1 – Test Results (Mode 1)	82
Annex A.2 – Test Results (Mode 2)	84
Annex B - Band-Edge Measurement (For U-NII-1 band)	86
Annex B.1 – Test Results (Mode 1)	86
Annex B.2 – Test Results (Mode 2)	87
Appendix – Information of the Testing Laboratories	88

Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P20110181K-1	Original release.	2022/2/16

1 Certificate of Conformity

Product: 2TX 11ax (WiFi6E) + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7921K

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: 2021/10/21 ~ 2022/2/14

Standard: 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 EMC characteristics under the conditions specified in this report.

Prepared by : Phoenix Huang, **Date:** 2022/2/16
Phoenix Huang / Specialist

Approved by : Clark Lin, **Date:** 2022/2/16
Clark Lin / Technical Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(8)	AC Power Conducted Emissions	NA	Refer to Note 1 below
15.407(b) (1/2/3/4(i/ii)/8)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.3 dB at 5350.00 MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	NA	Refer to Note 1 below
15.407(e)	6dB bandwidth	NA	Refer to Note 1 below
15.407(g)	Frequency Stability	NA	Refer to Note 1 below
15.203	Antenna Requirement	Pass	Antenna connector is R-SMA or i-pex(MHF) not a standard connector.

Note:

1. Radiated Emissions and Conducted power were performed for this addendum. The others testing data refer to original test report.
2. 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) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.1 dB
	30MHz ~ 1GHz	5.4 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2TX 11ax (WiFi6E) + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7921K
Status of EUT	Engineering sample
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 1201.0 Mbps
Operating Frequency	5.18~5.32GHz, 5.50~5.72GHz, 5.745 ~ 5.825GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6
Output Power	5.18 ~ 5.24 GHz: 138.886 mW 5.26 ~ 5.32GHz: 141.925 mW 5.5 ~ 5.72GHz: 152.769 mW 5.745 ~ 5.825 GHz: 188.77 mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

- This report is prepared for FCC class II change. The difference compared with the Report No.: RFBARR-WTW-P20110181F-1 as the following:
 - ◆ Enable U-NII-4 and U-NII-3 & -4 span channels through software change.
- According to above condition, only Verify Output Power and Radiated Emission tests according to original report worst channels. And all data were verified to meet the requirements.
- Simultaneously transmission condition.

Condition	Technology	
1	WLAN (2.4GHz)	Bluetooth
2	WLAN (5GHz / 6GHz)	Bluetooth

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

4. The antennas provided to the EUT, please refer to the following table:

Ant. Set	RF Chain No.	Brand	Model	Ant. Net Gain (dBi)	Freq. Range (GHz)	Ant. Type	Connector Type	Cable Length (mm)	Cable Loss (dB)	Excluding Cable Loss Ant. Gain (dBi)
1	Chain0	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	R-SMA	150	2.4~2.4835GHz: 0.5 5.15~5.85GHz: 0.8	2.92 4.67
	Chain1	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	R-SMA	150	2.4~2.4835GHz: 0.5 5.15~5.85GHz: 0.8	2.92 4.67
2	Chain0	PSA	RFMTA340718EM LB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200	included cable loss	-
	Chain1	PSA	RFMTA340718EM LB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200	included cable loss	-
3	Chain0	PSA	RFMTA311020EM MB301	1.71 4.82 3.31	2.4~2.4835 5.15~5.85 5.92~7.125	PIFA	i-pex(MHF)	200	-	-
	Chain1	PSA	RFMTA311020EM MB301	1.71 4.82 3.31	2.4~2.4835 5.15~5.85 5.92~7.125	PIFA	i-pex(MHF)	200	-	-
4	Chain0	PSA	RFMTA311020EM MB301_V02	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200	-	-
	Chain1	PSA	RFMTA311020EM MB301_V02	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200	-	-
5	Chain0	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP SMA PLUG	40	-	-
	Chain1	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP SMA PLUG	40	-	-
6	Chain0	Luxshare-ICT	LA9RF059-CS-H (Main)	0.3 1.3 1.2	2.4~2.4835 5.15~5.85 5.925~7.125	Dipole	RP SMA PLUG	925	-	-
	Chain1	Luxshare-ICT	LA9RF059-CS-H (Aux)	-1.10 -1.10 1.4	2.4~2.4835 5.15~5.85 5.925~7.125	Dipole	RP SMA PLUG	876	-	-
7	Chain0	ASUS	14008-02650500 Main ant.	1.03 2.07 2.80	2.4~2.4835 5.15~5.85 5.925~7.125	Dipole	RP SMA PLUG	800	-	-
	Chain1	ASUS	14008-02650500 Aux ant.	2.27 2.01 3.08	2.4~2.4835 5.15~5.85 5.925~7.125	Dipole	RP SMA PLUG	800	-	-

Note: Max. gain was selected for the final test, except for the radiated emissions test.

5. The EUT incorporates a MIMO function:

5GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX

Note: The EUT doesn't support beamforming function.

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.

7. The above Antenna information is declared by manufacturer, the laboratory shall not be held responsible.

3.2 Description of Test Modes

FOR 5180 ~ 5320MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5720MHz

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

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

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

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

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

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

FOR 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To			Description
	RE $\geq$ 1G	RE<1G	APCM	
1	√	√	√	With PIFA antenna
2	√	√	-	With Dipole antenna

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

APCM: Antenna Port Conducted Measurement

Note: In the original report, the EUT's antenna (PIFA) had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**

Radiated Emission Test (Above 1GHz):

- ☒ 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.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5180-5320	36 to 64	48, 60	OFDM	BPSK	6Mb/s
802.11ax (HE20)		36 to 64	48, 60	OFDMA	BPSK	MCS0
802.11ax (HE40)		38 to 62	46, 54	OFDMA	BPSK	MCS0
802.11ax (HE80)		42, 58	42, 58	OFDMA	BPSK	MCS0
802.11a	5500-5720	100 to 144	116, 144	OFDM	BPSK	6Mb/s
802.11ax (HE20)		100 to 144	116, 144	OFDMA	BPSK	MCS0
802.11ax (HE40)		102 to 142	110, 142	OFDMA	BPSK	MCS0
802.11ax (HE80)		106 to 138	122, 138	OFDMA	BPSK	MCS0
802.11a	5745-5825	149 to 165	165	OFDM	BPSK	6Mb/s
802.11ax (HE20)		149 to 165	165	OFDMA	BPSK	MCS0
802.11ax (HE40)		151 to 159	159	OFDMA	BPSK	MCS0
802.11ax (HE80)		155	155	OFDMA	BPSK	MCS0

Radiated Emission Test (Below 1GHz):

- ☒ 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.

Mode	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE40)	142	OFDMA	BPSK	MCS0

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5180-5320	36 to 64	48, 60	OFDM	BPSK	6Mb/s
802.11ax (HE20)		36 to 64	48, 60	OFDMA	BPSK	MCS0
802.11ax (HE40)		38 to 62	46, 54	OFDMA	BPSK	MCS0
802.11ax (HE80)		42, 58	42, 58	OFDMA	BPSK	MCS0
802.11a	5500-5720	100 to 144	116, 144	OFDM	BPSK	6Mb/s
802.11ac (VHT20) (Output power only)		100 to 144	144	OFDM	BPSK	MCS0
802.11ac (VHT40) (Output power only)		102 to 142	142	OFDM	BPSK	MCS0
802.11ac (VHT80) (Output power only)		106 to 138	138	OFDM	BPSK	MCS0
802.11ax (HE20)		100 to 144	116, 144	OFDMA	BPSK	MCS0
802.11ax (HE40)		102 to 142	110, 142	OFDMA	BPSK	MCS0
802.11ax (HE80)		106 to 138	122, 138	OFDMA	BPSK	MCS0
802.11a		149 to 165	165	OFDM	BPSK	6Mb/s
802.11ax (HE20)	5745-5825	149 to 165	165	OFDMA	BPSK	MCS0
802.11ax (HE40)		151 to 159	159	OFDMA	BPSK	MCS0
802.11ax (HE80)		155	155	OFDMA	BPSK	MCS0

Test Condition:

Applicable To	Environmental Conditions	Input Power (System)	Tested By
RE $\geq$ 1G	25deg. C, 66%RH	120Vac, 60Hz	Tom Yang
RE<1G	25deg. C, 66%RH	120Vac, 60Hz	Tom Yang
PLC	25deg. C, 66%RH	120Vac, 60Hz	Tom Yang
APCM	23deg. C, 60%RH	120Vac, 60Hz	Eric Peng

3.3 Duty Cycle of Test Signal

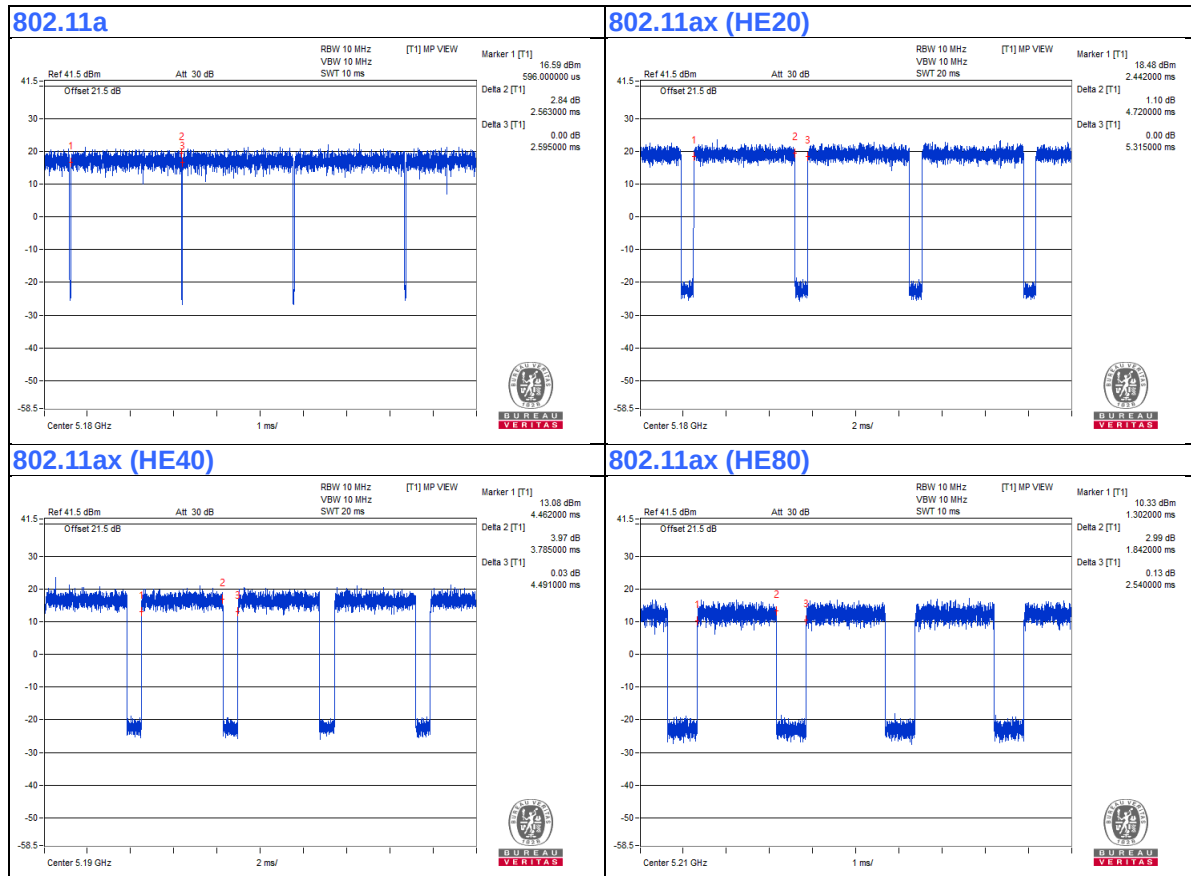
If duty cycle of test signal is $\geq 98\%$, duty factor is not required.
If duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11a: Duty cycle = 2.563 ms / 2.595 ms = 0.988

802.11ax (HE20): Duty cycle = 4.72 ms / 5.315 ms = 0.888, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.52 \text{ dB}$

802.11ax (HE40): Duty cycle = 3.785 ms / 4.491 ms = 0.843, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.74 \text{ dB}$

802.11ax (HE80): Duty cycle = 1.842 ms / 2.54 ms = 0.725, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 1.40 \text{ dB}$



3.4 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.

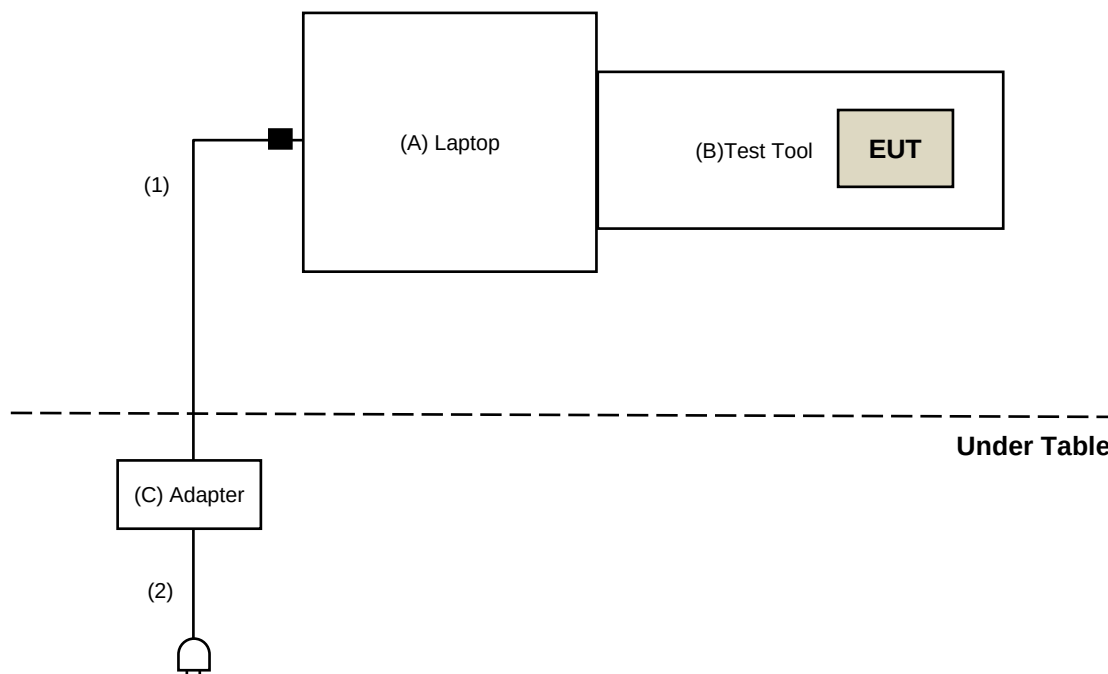
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	Dell	E6440	H7LYQ32	DoC	Provided by Lab
B.	Test Tool	MTK	NA	NA	NA	Supplied by client
C.	Adapter	Dell	FA65NE0-00	NA	NA	Provided by Lab

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.6	No	1	Provided by Lab
2.	AC Cable	1	1	No	0	Provided by Lab

Note: The core(s) is(are) originally attached to the cable(s).

3.4.1 Configuration of System under Test

For Radiated Emissions test:



3.5 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 Procedure 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:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000MHz, 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 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK:74 (dBμV/m)	AV:54 (dBμV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
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}
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}
^{*1} beyond 75 MHz or more above of the band edge. ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. ^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

Note:

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

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

4.1.2 Test Instruments

For Radiated Emission test (for Other Channels):

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY51210202	2021/11/19	2022/11/18
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2021/11/14	2022/11/13
Pre_Amplifier EMCI	EMC 12630 SE	980638	2021/4/7	2022/4/6
RF Cable-Frequency Range : 1-26.5GHz EMCI	EMC104-SM-SM-1200	160922	2021/12/24	2022/12/23
RF Coaxial Cable EMCI	EMC104-SM-SM-2000	180502	2021/4/26	2022/4/25
RF Coaxial Cable EMCI	EMC104-SM-SM-6000	210704	2021/11/9	2022/11/8
Pre_Amplifier EMCI	EMC184045SE	980387	2022/1/10	2023/1/9
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170519	2021/11/14	2022/11/13
RF Cable-Frequency range: 1-40GHz EMCI	EMC102-KM-KM-1200	160924	2022/1/10	2023/1/9
RF cable (40GHz) EMCI	EMC-KM-KM-4000	200214	2021/3/10	2022/3/9

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 966 Chamber No. 4.
3. Tested Date: 2022/2/12

For Radiated Emission test (for Straddle Channels):

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Test Receiver Agilent	N9038A	MY50010156	2021/7/22	2022/7/21
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Pre_Amplifier EMCI	EMC001340	980142	2021/5/24	2022/5/23
LOOP ANTENNA Electro-Metrics	EM-6879	264	2021/3/5	2022/3/4
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2021/1/7	2022/1/6
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-002	2021/1/7	2022/1/6
Pre_Amplifier Mini-Circuits	ZFL-1000VH2	QA0838008	2021/10/19	2022/10/18
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-361	2020/11/5	2021/11/4
RF Coaxial Cable COMMATE/PEWC	8D	966-3-1	2021/3/16	2022/3/15
RF Coaxial Cable COMMATE/PEWC	8D	966-3-2	2021/3/16	2022/3/15
RF Coaxial Cable COMMATE/PEWC	8D	966-3-3	2021/3/16	2022/3/15
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	2021/9/23	2022/9/22
Horn Antenna Schwarzbeck	BBHA9120-D	9120D-406	2020/11/22	2021/11/21
Pre_Amplifier EMCI	EMC12630SE	980384	2021/1/11	2022/1/10
RF Coaxial Cable EMCI	EMC104-SM-SM-1500	180504	2021/4/26	2022/4/25
RF Coaxial Cable EMCI	EMC104-SM-SM-2000	180601	2021/6/8	2022/6/7
RF Coaxial Cable EMCI	EMC104-SM-SM-6000	210201	2021/5/13	2022/5/12
Fix tool for Boresight antenna tower LIOW GUU	FBA-01	FBA_SIP01	NA	NA
Spectrum Analyzer Keysight	N9030A	MY54490679	2021/7/9	2022/7/8
Pre_Amplifier EMCI	EMC184045SE	980387	2021/1/11	2022/1/10
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170519	2020/11/22	2021/11/21
RF Cable-Frequency range: 1-40GHz EMCI	EMC102-KM-KM-1200	160924	2021/1/11	2022/1/10
RF cable (40GHz) EMCI	EMC-KM-KM-4000	200214	2021/3/10	2022/3/9

- Note: 1. The test was performed in 966 Chamber No. 3.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. Tested Date: 2021/10/21

For other test items:

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Spectrum Analyzer R&S	FSV40	101516	2021/3/8	2022/3/7
Power Meter Anritsu	ML2495A	1529002	2021/6/21	2022/6/20
Pulse Power Sensor Anritsu	MA2411B	1339443	2021/5/31	2022/5/30
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2021/4/13	2022/4/12
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

- Note: 1. The test was performed in Oven room 2.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: 2021/11/9 ~ 2022/2/14

4.1.3 Test Procedure

For Radiated emission below 30MHz

- 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 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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 detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

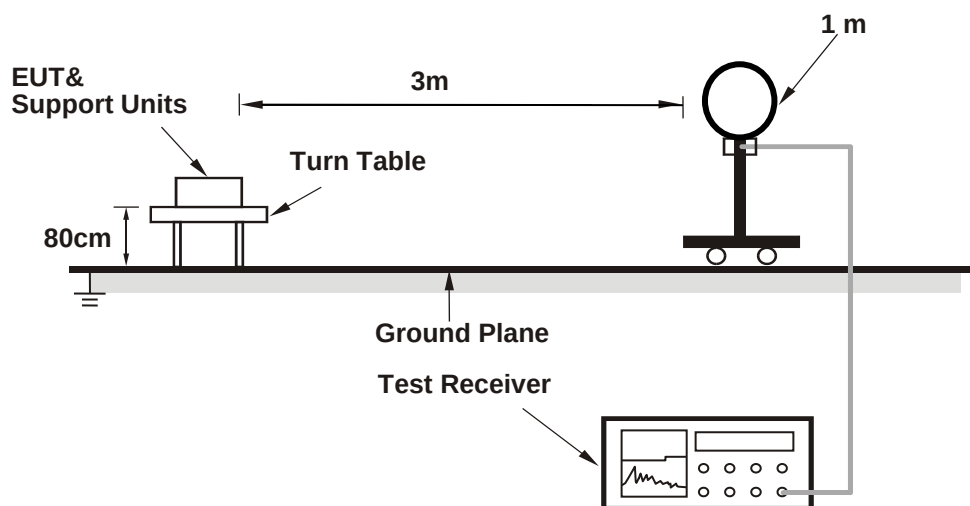
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Deviation from Test Standard

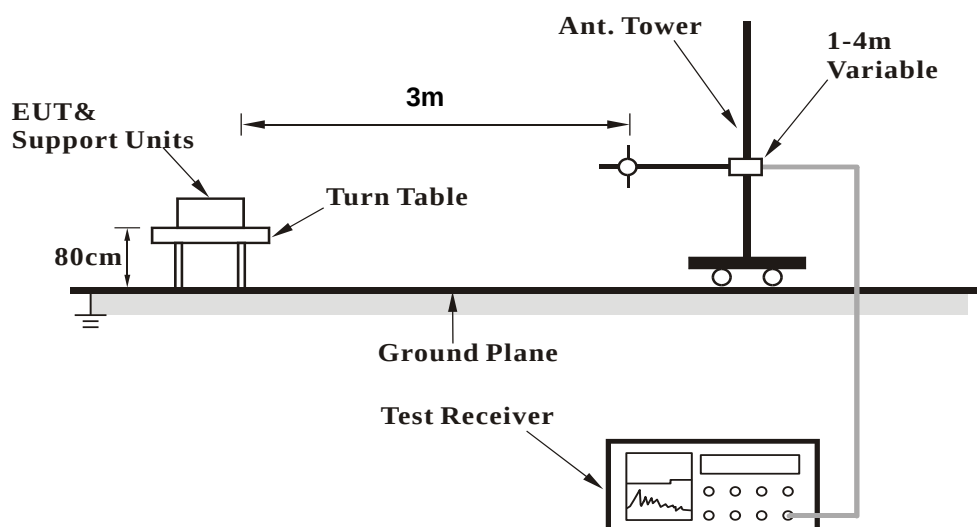
No deviation.

4.1.5 Test Setup

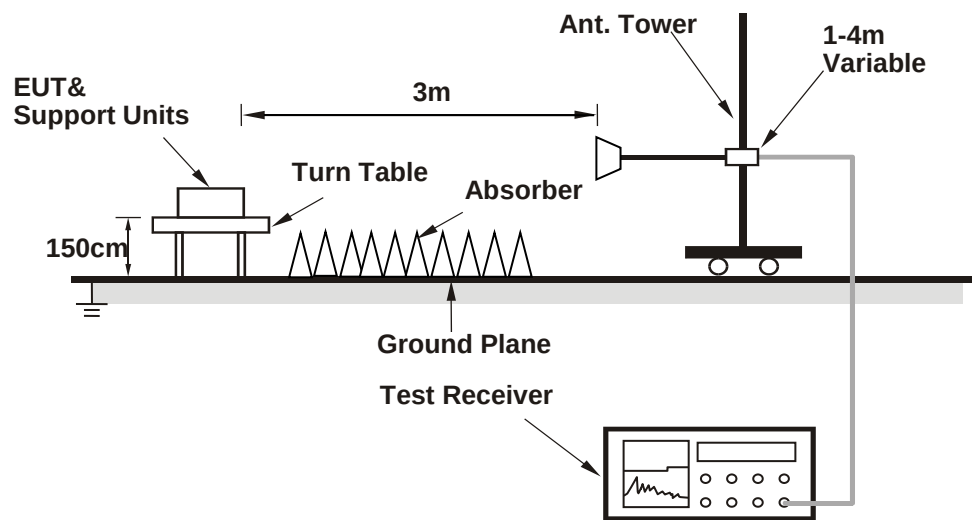
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Condition

- Placed the EUT on the testing table.
- Controlling software (MT7961 QA0.0.2.33) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results (Mode 1)

Above 1GHz Data:

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	5150.00	59.9 PK	74.0	-14.1	1.00 H	346	58.9	1.0
2	5150.00	50.2 AV	54.0	-3.8	1.00 H	346	49.2	1.0
3	*5240.00	113.6 PK			1.00 H	346	113.2	0.4
4	*5240.00	106.1 AV			1.00 H	346	105.7	0.4
5	5350.00	60.6 PK	74.0	-13.4	1.00 H	346	60.0	0.6
6	5350.00	51.4 AV	54.0	-2.6	1.00 H	346	50.8	0.6
7	#10480.00	64.2 PK	68.2	-4.0	1.05 H	120	53.7	10.5
8	15720.00	45.6 PK	74.0	-28.4	1.59 H	258	34.1	11.5
9	15720.00	36.3 AV	54.0	-17.7	1.59 H	258	24.8	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.1 PK	74.0	-16.9	1.09 V	65	56.1	1.0
2	5150.00	46.6 AV	54.0	-7.4	1.09 V	65	45.6	1.0
3	*5240.00	109.7 PK			1.09 V	65	109.3	0.4
4	*5240.00	102.4 AV			1.09 V	65	102.0	0.4
5	5350.00	56.6 PK	74.0	-17.4	1.09 V	65	56.0	0.6
6	5350.00	47.6 AV	54.0	-6.4	1.09 V	65	47.0	0.6
7	#10480.00	66.2 PK	68.2	-2.0	3.72 V	269	55.7	10.5
8	15720.00	45.9 PK	74.0	-28.1	1.58 V	101	34.4	11.5
9	15720.00	36.4 AV	54.0	-17.6	1.58 V	101	24.9	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	115.0 PK			1.00 H	354	114.7	0.3
2	*5300.00	107.1 AV			1.00 H	354	106.8	0.3
3	5350.00	63.6 PK	74.0	-10.4	1.00 H	354	63.0	0.6
4	5350.00	53.7 AV	54.0	-0.3	1.00 H	354	53.1	0.6
5	10600.00	61.2 PK	74.0	-12.8	1.00 H	119	51.3	9.9
6	10600.00	49.9 AV	54.0	-4.1	1.00 H	119	40.0	9.9
7	15900.00	45.6 PK	74.0	-28.4	1.42 H	12	34.0	11.6
8	15900.00	36.5 AV	54.0	-17.5	1.42 H	12	24.9	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	111.0 PK			1.04 V	57	110.7	0.3
2	*5300.00	103.0 AV			1.04 V	57	102.7	0.3
3	5350.00	60.6 PK	74.0	-13.4	1.04 V	57	60.0	0.6
4	5350.00	49.4 AV	54.0	-4.6	1.04 V	57	48.8	0.6
5	10600.00	61.5 PK	74.0	-12.5	3.72 V	295	51.6	9.9
6	10600.00	51.4 AV	54.0	-2.6	3.72 V	295	41.5	9.9
7	15900.00	45.4 PK	74.0	-28.6	1.65 V	103	33.8	11.6
8	15900.00	36.2 AV	54.0	-17.8	1.65 V	103	24.6	11.6

Remarks:

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

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	115.1 PK			1.04 H	331	114.3	0.8
2	*5580.00	107.7 AV			1.04 H	331	106.9	0.8
3	11160.00	61.4 PK	74.0	-12.6	1.07 H	96	50.5	10.9
4	11160.00	50.8 AV	54.0	-3.2	1.07 H	96	39.9	10.9
5	#16740.00	46.0 PK	68.2	-22.2	1.51 H	31	30.9	15.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	110.7 PK			1.06 V	35	109.9	0.8
2	*5580.00	104.1 AV			1.06 V	35	103.3	0.8
3	11160.00	62.7 PK	74.0	-11.3	3.68 V	303	51.8	10.9
4	11160.00	52.2 AV	54.0	-1.8	3.68 V	303	41.3	10.9
5	#16740.00	45.6 PK	68.2	-22.6	1.69 V	113	30.5	15.1

Remarks:

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

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	5460.00	50.4 PK	74.0	-23.6	1.62 H	10	46.0	4.4
2	5460.00	40.7 AV	54.0	-13.3	1.62 H	10	36.3	4.4
3	#5470.00	51.5 PK	68.2	-16.7	1.62 H	10	47.0	4.5
4	*5720.00	114.4 PK			1.62 H	10	109.7	4.7
5	*5720.00	107.0 AV			1.62 H	10	102.3	4.7
6	#5850.00	60.7 PK	68.2	-7.5	1.62 H	10	55.7	5.0
7	11440.00	61.4 PK	74.0	-12.6	1.37 H	120	46.8	14.6
8	11440.00	49.0 AV	54.0	-5.0	1.37 H	120	34.4	14.6
9	#17160.00	45.3 PK	68.2	-22.9	1.41 H	357	27.5	17.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.0 PK	74.0	-23.0	1.37 V	93	46.6	4.4
2	5460.00	40.9 AV	54.0	-13.1	1.37 V	93	36.5	4.4
3	#5470.00	51.9 PK	68.2	-16.3	1.37 V	93	47.4	4.5
4	*5720.00	111.8 PK			1.37 V	93	107.1	4.7
5	*5720.00	103.8 AV			1.37 V	93	99.1	4.7
6	#5850.00	60.1 PK	68.2	-8.1	1.37 V	93	55.1	5.0
7	11440.00	61.3 PK	74.0	-12.7	3.53 V	251	46.7	14.6
8	11440.00	50.6 AV	54.0	-3.4	3.53 V	251	36.0	14.6
9	#17160.00	45.7 PK	68.2	-22.5	1.61 V	133	27.9	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	*5825.00	114.3 PK			3.14 H	349	112.9	1.4
2	*5825.00	106.9 AV			3.14 H	349	105.5	1.4
3	11650.00	53.7 PK	74.0	-20.3	2.77 H	301	42.4	11.3
4	11650.00	42.9 AV	54.0	-11.1	2.77 H	301	31.6	11.3
5	#17475.00	54.4 PK	68.2	-13.8	1.58 H	324	36.8	17.6
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	*5825.00	112.0 PK			1.10 V	51	110.6	1.4
2	*5825.00	105.2 AV			1.10 V	51	103.8	1.4
3	11650.00	53.0 PK	74.0	-21.0	2.16 V	201	41.7	11.3
4	11650.00	42.1 AV	54.0	-11.9	2.16 V	201	30.8	11.3
5	#17475.00	55.9 PK	68.2	-12.3	2.03 V	195	38.3	17.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	113.6 PK			1.03 H	359	113.2	0.4
2	*5240.00	103.1 AV			1.03 H	359	102.7	0.4
3	5350.00	56.5 PK	74.0	-17.5	1.03 H	359	55.9	0.6
4	5350.00	47.7 AV	54.0	-6.3	1.03 H	359	47.1	0.6
5	#10480.00	58.7 PK	68.2	-9.5	1.00 H	116	48.2	10.5
6	15720.00	44.9 PK	74.0	-29.1	1.36 H	274	33.4	11.5
7	15720.00	33.8 AV	54.0	-20.2	1.36 H	274	22.3	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	106.4 PK			1.07 V	73	106.0	0.4
2	*5240.00	98.6 AV			1.07 V	73	98.2	0.4
3	5350.00	56.2 PK	74.0	-17.8	1.07 V	73	55.6	0.6
4	5350.00	45.0 AV	54.0	-9.0	1.07 V	73	44.4	0.6
5	#10480.00	59.9 PK	68.2	-8.3	3.70 V	257	49.4	10.5
6	15720.00	45.2 PK	74.0	-28.8	1.63 V	123	33.7	11.5
7	15720.00	34.0 AV	54.0	-20.0	1.63 V	123	22.5	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	115.0 PK			1.00 H	360	114.7	0.3
2	*5300.00	103.7 AV			1.00 H	360	103.4	0.3
3	5350.00	63.0 PK	74.0	-11.0	1.00 H	360	62.4	0.6
4	5350.00	52.1 AV	54.0	-1.9	1.00 H	360	51.5	0.6
5	10600.00	56.7 PK	74.0	-17.3	1.00 H	100	46.8	9.9
6	10600.00	45.9 AV	54.0	-8.1	1.00 H	100	36.0	9.9
7	15900.00	46.1 PK	74.0	-27.9	1.43 H	12	34.5	11.6
8	15900.00	34.8 AV	54.0	-19.2	1.43 H	12	23.2	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	106.1 PK			1.07 V	78	105.8	0.3
2	*5300.00	99.1 AV			1.07 V	78	98.8	0.3
3	5350.00	59.4 PK	74.0	-14.6	1.07 V	78	58.8	0.6
4	5350.00	50.4 AV	54.0	-3.6	1.07 V	78	49.8	0.6
5	10600.00	58.3 PK	74.0	-15.7	3.76 V	320	48.4	9.9
6	10600.00	47.3 AV	54.0	-6.7	3.76 V	320	37.4	9.9
7	15900.00	45.7 PK	74.0	-28.3	1.59 V	103	34.1	11.6
8	15900.00	34.3 AV	54.0	-19.7	1.59 V	103	22.7	11.6

Remarks:

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

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	113.6 PK			1.20 H	355	112.8	0.8
2	*5580.00	104.4 AV			1.20 H	355	103.6	0.8
3	11160.00	57.3 PK	74.0	-16.7	1.23 H	95	46.4	10.9
4	11160.00	46.3 AV	54.0	-7.7	1.23 H	95	35.4	10.9
5	#16740.00	46.1 PK	68.2	-22.1	1.47 H	28	31.0	15.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	106.4 PK			1.23 V	56	105.6	0.8
2	*5580.00	99.5 AV			1.23 V	56	98.7	0.8
3	11160.00	57.8 PK	74.0	-16.2	3.84 V	324	46.9	10.9
4	11160.00	47.0 AV	54.0	-7.0	3.84 V	324	36.1	10.9
5	#16740.00	45.9 PK	68.2	-22.3	1.62 V	96	30.8	15.1

Remarks:

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

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	5460.00	50.1 PK	74.0	-23.9	1.58 H	351	45.7	4.4
2	5460.00	40.7 AV	54.0	-13.3	1.58 H	351	36.3	4.4
3	#5470.00	52.3 PK	68.2	-15.9	1.58 H	351	47.8	4.5
4	*5720.00	113.8 PK			1.58 H	351	109.1	4.7
5	*5720.00	104.8 AV			1.58 H	351	100.1	4.7
6	#5850.00	61.4 PK	68.2	-6.8	1.58 H	351	56.4	5.0
7	11440.00	56.0 PK	74.0	-18.0	1.37 H	124	41.4	14.6
8	11440.00	45.5 AV	54.0	-8.5	1.37 H	124	30.9	14.6
9	#17160.00	46.5 PK	68.2	-21.7	1.43 H	9	28.7	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.2 PK	74.0	-22.8	1.42 V	83	46.8	4.4
2	5460.00	41.0 AV	54.0	-13.0	1.42 V	83	36.6	4.4
3	#5470.00	53.0 PK	68.2	-15.2	1.42 V	83	48.5	4.5
4	*5720.00	107.4 PK			1.42 V	83	102.7	4.7
5	*5720.00	101.8 AV			1.42 V	83	97.1	4.7
6	#5850.00	61.3 PK	68.2	-6.9	1.42 V	83	56.3	5.0
7	11440.00	59.1 PK	74.0	-14.9	3.57 V	263	44.5	14.6
8	11440.00	47.1 AV	54.0	-6.9	3.57 V	263	32.5	14.6
9	#17160.00	45.6 PK	68.2	-22.6	1.66 V	126	27.8	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	*5825.00	113.9 PK			3.03 H	360	112.5	1.4
2	*5825.00	105.1 AV			3.03 H	360	103.7	1.4
3	11650.00	52.5 PK	74.0	-21.5	2.71 H	312	41.2	11.3
4	11650.00	41.0 AV	54.0	-13.0	2.71 H	312	29.7	11.3
5	#17475.00	53.0 PK	68.2	-15.2	1.53 H	307	35.4	17.6
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	*5825.00	114.0 PK			1.04 V	49	112.6	1.4
2	*5825.00	102.8 AV			1.04 V	49	101.4	1.4
3	11650.00	50.7 PK	74.0	-23.3	2.17 V	190	39.4	11.3
4	11650.00	40.2 AV	54.0	-13.8	2.17 V	190	28.9	11.3
5	#17475.00	53.2 PK	68.2	-15.0	1.92 V	172	35.6	17.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
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	110.4 PK			1.00 H	355	110.0	0.4
2	*5230.00	100.9 AV			1.00 H	355	100.5	0.4
3	5350.00	55.8 PK	74.0	-18.2	1.00 H	355	55.2	0.6
4	5350.00	46.2 AV	54.0	-7.8	1.00 H	355	45.6	0.6
5	#10460.00	53.5 PK	68.2	-14.7	1.15 H	117	42.9	10.6
6	15690.00	46.1 PK	74.0	-27.9	1.53 H	9	34.5	11.6
7	15690.00	35.0 AV	54.0	-19.0	1.53 H	9	23.4	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	105.3 PK			1.09 V	57	104.9	0.4
2	*5230.00	98.8 AV			1.09 V	57	98.4	0.4
3	5350.00	54.5 PK	74.0	-19.5	1.09 V	57	53.9	0.6
4	5350.00	44.1 AV	54.0	-9.9	1.09 V	57	43.5	0.6
5	#10460.00	54.5 PK	68.2	-13.7	3.67 V	317	43.9	10.6
6	15690.00	46.2 PK	74.0	-27.8	1.65 V	108	34.6	11.6
7	15690.00	34.7 AV	54.0	-19.3	1.65 V	108	23.1	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	56.5 PK	74.0	-17.5	1.05 H	360	55.5	1.0
2	5150.00	46.8 AV	54.0	-7.2	1.05 H	360	45.8	1.0
3	*5270.00	111.7 PK			1.05 H	360	111.4	0.3
4	*5270.00	102.3 AV			1.05 H	360	102.0	0.3
5	5350.00	60.3 PK	74.0	-13.7	1.05 H	360	59.7	0.6
6	5350.00	50.9 AV	54.0	-3.1	1.05 H	360	50.3	0.6
7	#10540.00	53.6 PK	68.2	-14.6	1.19 H	119	43.3	10.3
8	15810.00	45.5 PK	74.0	-28.5	1.50 H	12	34.2	11.3
9	15810.00	34.5 AV	54.0	-19.5	1.50 H	12	23.2	11.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	54.7 PK	74.0	-19.3	1.17 V	62	53.7	1.0
2	5150.00	44.1 AV	54.0	-9.9	1.17 V	62	43.1	1.0
3	*5270.00	105.8 PK			1.17 V	62	105.5	0.3
4	*5270.00	98.9 AV			1.17 V	62	98.6	0.3
5	5350.00	58.3 PK	74.0	-15.7	1.17 V	62	57.7	0.6
6	5350.00	47.5 AV	54.0	-6.5	1.17 V	62	46.9	0.6
7	#10540.00	54.5 PK	68.2	-13.7	3.62 V	310	44.2	10.3
8	15810.00	46.6 PK	74.0	-27.4	1.58 V	98	35.3	11.3
9	15810.00	35.0 AV	54.0	-19.0	1.58 V	98	23.7	11.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	111.5 PK			1.04 H	346	110.7	0.8
2	*5550.00	102.0 AV			1.04 H	346	101.2	0.8
3	11100.00	52.9 PK	74.0	-21.1	1.19 H	115	42.1	10.8
4	11100.00	42.1 AV	54.0	-11.9	1.19 H	115	31.3	10.8
5	#16650.00	46.7 PK	68.2	-21.5	1.57 H	13	32.0	14.7
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	*5550.00	106.1 PK			1.05 V	62	105.3	0.8
2	*5550.00	99.1 AV			1.05 V	62	98.3	0.8
3	11100.00	54.9 PK	74.0	-19.1	3.72 V	304	44.1	10.8
4	11100.00	42.7 AV	54.0	-11.3	3.72 V	304	31.9	10.8
5	#16650.00	46.0 PK	68.2	-22.2	1.67 V	93	31.3	14.7

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 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	5460.00	50.0 PK	74.0	-24.0	1.45 H	7	45.6	4.4
2	5460.00	39.6 AV	54.0	-14.4	1.45 H	7	35.2	4.4
3	#5470.00	51.5 PK	68.2	-16.7	1.45 H	7	47.0	4.5
4	*5710.00	111.7 PK			1.45 H	7	107.0	4.7
5	*5710.00	101.3 AV			1.45 H	7	96.6	4.7
6	#5850.00	57.2 PK	68.2	-11.0	1.45 H	7	52.2	5.0
7	11420.00	52.7 PK	74.0	-21.3	1.33 H	118	38.2	14.5
8	11420.00	42.0 AV	54.0	-12.0	1.33 H	118	27.5	14.5
9	#17130.00	46.4 PK	68.2	-21.8	1.37 H	3	28.7	17.7

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.3 PK	74.0	-23.7	1.32 V	77	45.9	4.4
2	5460.00	39.4 AV	54.0	-14.6	1.32 V	77	35.0	4.4
3	#5470.00	52.0 PK	68.2	-16.2	1.32 V	77	47.5	4.5
4	*5710.00	107.5 PK			1.32 V	77	102.8	4.7
5	*5710.00	100.2 AV			1.32 V	77	95.5	4.7
6	#5850.00	56.5 PK	68.2	-11.7	1.32 V	77	51.5	5.0
7	11420.00	54.3 PK	74.0	-19.7	3.58 V	248	39.8	14.5
8	11420.00	42.7 AV	54.0	-11.3	3.58 V	248	28.2	14.5
9	#17130.00	46.8 PK	68.2	-21.4	1.57 V	122	29.1	17.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	*5795.00	111.1 PK			1.06 H	360	109.7	1.4
2	*5795.00	101.5 AV			1.06 H	360	100.1	1.4
3	11590.00	49.9 PK	74.0	-24.1	2.86 H	327	38.6	11.3
4	11590.00	39.0 AV	54.0	-15.0	2.86 H	327	27.7	11.3
5	#17385.00	49.0 PK	68.2	-19.2	1.56 H	302	32.2	16.8
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	*5795.00	107.8 PK			1.06 V	57	106.4	1.4
2	*5795.00	98.6 AV			1.06 V	57	97.2	1.4
3	11590.00	49.3 PK	74.0	-24.7	2.16 V	222	38.0	11.3
4	11590.00	38.6 AV	54.0	-15.4	2.16 V	222	27.3	11.3
5	#17385.00	50.6 PK	68.2	-17.6	1.89 V	196	33.8	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
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	1.81 H	360	57.9	1.0
2	5150.00	50.3 AV	54.0	-3.7	1.81 H	360	49.3	1.0
3	*5210.00	101.4 PK			1.81 H	360	100.9	0.5
4	*5210.00	94.3 AV			1.81 H	360	93.8	0.5
5	5350.00	49.0 PK	74.0	-25.0	1.81 H	360	48.4	0.6
6	5350.00	39.9 AV	54.0	-14.1	1.81 H	360	39.3	0.6
7	#10420.00	46.9 PK	68.2	-21.3	1.51 H	78	36.3	10.6
8	15630.00	44.6 PK	74.0	-29.4	1.54 H	1	33.0	11.6
9	15630.00	33.4 AV	54.0	-20.6	1.54 H	1	21.8	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	1.06 V	46	57.1	1.0
2	5150.00	48.3 AV	54.0	-5.7	1.06 V	46	47.3	1.0
3	*5210.00	97.8 PK			1.06 V	46	97.3	0.5
4	*5210.00	90.4 AV			1.06 V	46	89.9	0.5
5	5350.00	50.6 PK	74.0	-23.4	1.06 V	46	50.0	0.6
6	5350.00	39.8 AV	54.0	-14.2	1.06 V	46	39.2	0.6
7	#10420.00	48.4 PK	68.2	-19.8	1.29 V	70	37.8	10.6
8	15630.00	44.7 PK	74.0	-29.3	1.23 V	47	33.1	11.6
9	15630.00	33.6 AV	54.0	-20.4	1.23 V	47	22.0	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	5150.00	52.0 PK	74.0	-22.0	1.59 H	351	51.0	1.0
2	5150.00	41.9 AV	54.0	-12.1	1.59 H	351	40.9	1.0
3	*5290.00	101.9 PK			1.59 H	351	101.6	0.3
4	*5290.00	94.6 AV			1.59 H	351	94.3	0.3
5	5350.00	57.6 PK	74.0	-16.4	1.59 H	351	57.0	0.6
6	5350.00	48.2 AV	54.0	-5.8	1.59 H	351	47.6	0.6
7	#10580.00	47.3 PK	68.2	-20.9	1.49 H	64	37.3	10.0
8	15870.00	44.7 PK	74.0	-29.3	1.58 H	348	33.1	11.6
9	15870.00	33.3 AV	54.0	-20.7	1.58 H	348	21.7	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	50.4 PK	74.0	-23.6	1.03 V	41	49.4	1.0
2	5150.00	41.2 AV	54.0	-12.8	1.03 V	41	40.2	1.0
3	*5290.00	101.1 PK			1.03 V	41	100.8	0.3
4	*5290.00	92.1 AV			1.03 V	41	91.8	0.3
5	5350.00	53.8 PK	74.0	-20.2	1.03 V	41	53.2	0.6
6	5350.00	46.0 AV	54.0	-8.0	1.03 V	41	45.4	0.6
7	#10580.00	48.8 PK	68.2	-19.4	1.34 V	75	38.8	10.0
8	15870.00	45.4 PK	74.0	-28.6	1.28 V	53	33.8	11.6
9	15870.00	33.9 AV	54.0	-20.1	1.28 V	53	22.3	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	107.1 PK			1.46 H	1	106.1	1.0
2	*5610.00	97.9 AV			1.46 H	1	96.9	1.0
3	#5725.00	55.3 PK	68.2	-12.9	1.46 H	1	54.0	1.3
4	11220.00	46.7 PK	74.0	-27.3	1.49 H	71	35.7	11.0
5	11220.00	38.2 AV	54.0	-15.8	1.49 H	71	27.2	11.0
6	#16830.00	45.2 PK	68.2	-23.0	1.55 H	7	30.0	15.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	104.5 PK			1.03 V	38	103.5	1.0
2	*5610.00	94.0 AV			1.03 V	38	93.0	1.0
3	#5725.00	52.3 PK	68.2	-15.9	1.03 V	38	51.0	1.3
4	11220.00	48.7 PK	74.0	-25.3	1.43 V	72	37.7	11.0
5	11220.00	39.3 AV	54.0	-14.7	1.43 V	72	28.3	11.0
6	#16830.00	44.8 PK	68.2	-23.4	1.30 V	45	29.6	15.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
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	5460.00	50.5 PK	74.0	-23.5	1.58 H	20	46.1	4.4
2	5460.00	39.8 AV	54.0	-14.2	1.58 H	20	35.4	4.4
3	#5470.00	51.0 PK	68.2	-17.2	1.58 H	20	46.5	4.5
4	*5690.00	107.2 PK			1.58 H	20	102.7	4.5
5	*5690.00	98.1 AV			1.58 H	20	93.6	4.5
6	#5850.00	56.1 PK	68.2	-12.1	1.58 H	20	51.1	5.0
7	11380.00	47.8 PK	74.0	-26.2	1.42 H	118	33.3	14.5
8	11380.00	38.5 AV	54.0	-15.5	1.42 H	118	24.0	14.5
9	#17070.00	44.7 PK	68.2	-23.5	1.45 H	352	26.8	17.9

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	5460.00	51.3 PK	74.0	-22.7	1.41 V	85	46.9	4.4
2	5460.00	40.4 AV	54.0	-13.6	1.41 V	85	36.0	4.4
3	#5470.00	51.3 PK	68.2	-16.9	1.41 V	85	46.8	4.5
4	*5690.00	104.8 PK			1.41 V	85	100.3	4.5
5	*5690.00	94.0 AV			1.41 V	85	89.5	4.5
6	#5850.00	56.5 PK	68.2	-11.7	1.41 V	85	51.5	5.0
7	11380.00	48.7 PK	74.0	-25.3	3.53 V	263	34.2	14.5
8	11380.00	39.4 AV	54.0	-14.6	3.53 V	263	24.9	14.5
9	#17070.00	45.0 PK	68.2	-23.2	1.65 V	144	27.1	17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	*5775.00	107.0 PK			1.00 H	353	105.6	1.4
2	*5775.00	97.6 AV			1.00 H	353	96.2	1.4
3	11550.00	49.3 PK	74.0	-24.7	2.78 H	321	37.9	11.4
4	11550.00	38.6 AV	54.0	-15.4	2.78 H	321	27.2	11.4
5	#17325.00	49.0 PK	68.2	-19.2	1.59 H	307	32.8	16.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5775.00	104.1 PK			1.12 V	48	102.7	1.4
2	*5775.00	94.6 AV			1.12 V	48	93.2	1.4
3	11550.00	49.5 PK	74.0	-24.5	2.13 V	212	38.1	11.4
4	11550.00	38.6 AV	54.0	-15.4	2.13 V	212	27.2	11.4
5	#17325.00	49.9 PK	68.2	-18.3	2.02 V	184	33.7	16.2

Remarks:

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

Below 1GHz Data:

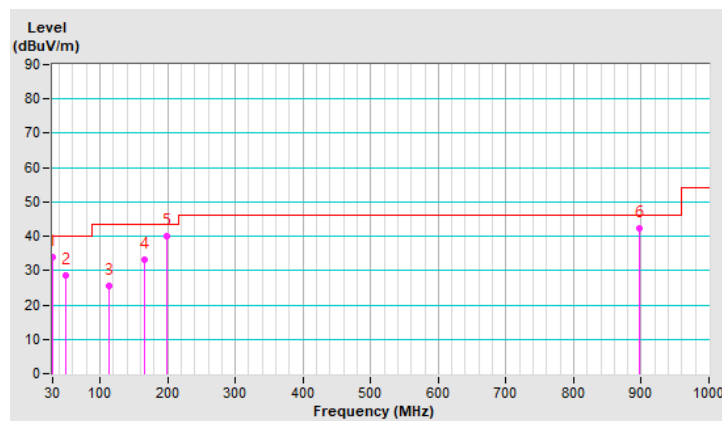
802.11a

RF Mode	TX 802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	9kHz ~ 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	30.44	33.9 QP	40.0	-6.1	3.00 H	183	43.3	-9.4
2	48.94	28.5 QP	40.0	-11.5	1.50 H	4	36.6	-8.1
3	113.34	25.6 QP	43.5	-17.9	1.00 H	103	36.0	-10.4
4	165.22	33.3 QP	43.5	-10.2	1.00 H	140	41.3	-8.0
5	199.20	40.0 QP	43.5	-3.5	2.00 H	177	50.6	-10.6
6	897.99	42.3 QP	46.0	-3.7	1.00 H	267	35.8	6.5

Remarks:

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

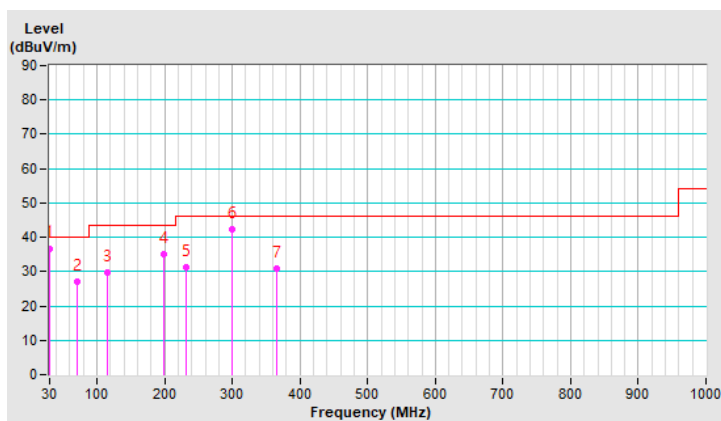


RF Mode	TX 802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	30.61	36.8 QP	40.0	-3.2	1.00 V	286	46.2	-9.4
2	70.06	27.2 QP	40.0	-12.8	2.00 V	177	37.7	-10.5
3	114.99	29.7 QP	43.5	-13.8	1.00 V	218	40.0	-10.3
4	199.07	35.2 QP	43.5	-8.3	1.00 V	286	45.8	-10.6
5	232.62	31.2 QP	46.0	-14.8	1.50 V	241	40.9	-9.7
6	298.97	42.3 QP	46.0	-3.7	3.00 V	295	49.1	-6.8
7	366.06	30.7 QP	46.0	-15.3	1.50 V	140	35.4	-4.7

Remarks:

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



4.1.8 Test Results (Mode 2)

Above 1GHz Data:

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	104.4 PK			3.84 H	192	104.0	0.4
2	*5240.00	96.1 AV			3.84 H	192	95.7	0.4
3	5350.00	53.5 PK	74.0	-20.5	3.84 H	192	52.9	0.6
4	5350.00	43.9 AV	54.0	-10.1	3.84 H	192	43.3	0.6
5	#10480.00	61.3 PK	68.2	-6.9	1.28 H	110	50.8	10.5
6	15720.00	45.4 PK	74.0	-28.6	1.36 H	114	33.9	11.5
7	15720.00	36.1 AV	54.0	-17.9	1.36 H	114	24.6	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	110.8 PK			1.12 V	179	110.4	0.4
2	*5240.00	103.8 AV			1.12 V	179	103.4	0.4
3	5350.00	57.8 PK	74.0	-16.2	1.12 V	179	57.2	0.6
4	5350.00	49.5 AV	54.0	-4.5	1.12 V	179	48.9	0.6
5	#10480.00	66.4 PK	68.2	-1.8	3.74 V	145	55.9	10.5
6	15720.00	46.2 PK	74.0	-27.8	1.70 V	55	34.7	11.5
7	15720.00	36.7 AV	54.0	-17.3	1.70 V	55	25.2	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
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	105.4 PK			1.06 H	108	105.1	0.3
2	*5300.00	97.5 AV			1.06 H	108	97.2	0.3
3	10600.00	62.5 PK	74.0	-11.5	1.00 H	126	52.6	9.9
4	10600.00	52.4 AV	54.0	-1.6	1.00 H	126	42.5	9.9
5	15900.00	44.6 PK	74.0	-29.4	1.42 H	111	33.0	11.6
6	15900.00	35.7 AV	54.0	-18.3	1.42 H	111	24.1	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	111.2 PK			1.07 V	139	110.9	0.3
2	*5300.00	104.7 AV			1.07 V	139	104.4	0.3
3	10600.00	63.4 PK	74.0	-10.6	4.00 V	113	53.5	9.9
4	10600.00	52.5 AV	54.0	-1.5	4.00 V	113	42.6	9.9
5	15900.00	47.4 PK	74.0	-26.6	1.76 V	46	35.8	11.6
6	15900.00	37.8 AV	54.0	-16.2	1.76 V	46	26.2	11.6

Remarks:

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

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	106.0 PK			1.10 H	131	105.2	0.8
2	*5580.00	98.4 AV			1.10 H	131	97.6	0.8
3	11160.00	62.7 PK	74.0	-11.3	1.03 H	120	51.8	10.9
4	11160.00	52.8 AV	54.0	-1.2	1.03 H	120	41.9	10.9
5	#16740.00	45.0 PK	68.2	-23.2	1.31 H	124	29.9	15.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	111.4 PK			1.15 V	141	110.6	0.8
2	*5580.00	105.2 AV			1.15 V	141	104.4	0.8
3	11160.00	63.8 PK	74.0	-10.2	3.98 V	102	52.9	10.9
4	11160.00	53.2 AV	54.0	-0.8	3.98 V	102	42.3	10.9
5	#16740.00	47.2 PK	68.2	-21.0	1.70 V	52	32.1	15.1

Remarks:

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

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	5460.00	50.9 PK	74.0	-23.1	1.51 H	103	46.5	4.4
2	5460.00	41.3 AV	54.0	-12.7	1.51 H	103	36.9	4.4
3	#5470.00	51.4 PK	68.2	-16.8	1.51 H	103	46.9	4.5
4	*5720.00	105.2 PK			1.51 H	103	100.5	4.7
5	*5720.00	97.5 AV			1.51 H	103	92.8	4.7
6	#5850.00	61.1 PK	68.2	-7.1	1.51 H	103	56.1	5.0
7	11440.00	59.8 PK	74.0	-14.2	1.30 H	193	45.2	14.6
8	11440.00	49.9 AV	54.0	-4.1	1.30 H	193	35.3	14.6
9	#17160.00	44.9 PK	68.2	-23.3	1.69 H	71	27.1	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.4 PK	74.0	-22.6	1.32 V	161	47.0	4.4
2	5460.00	41.2 AV	54.0	-12.8	1.32 V	161	36.8	4.4
3	#5470.00	52.3 PK	68.2	-15.9	1.32 V	161	47.8	4.5
4	*5720.00	111.4 PK			1.32 V	161	106.7	4.7
5	*5720.00	104.5 AV			1.32 V	161	99.8	4.7
6	#5850.00	61.8 PK	68.2	-6.4	1.32 V	161	56.8	5.0
7	11440.00	60.8 PK	74.0	-13.2	3.71 V	109	46.2	14.6
8	11440.00	50.2 AV	54.0	-3.8	3.71 V	109	35.6	14.6
9	#17160.00	48.3 PK	68.2	-19.9	1.91 V	37	30.5	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	*5825.00	102.7 PK			1.00 H	167	101.3	1.4
2	*5825.00	95.8 AV			1.00 H	167	94.4	1.4
3	11650.00	58.6 PK	74.0	-15.4	1.14 H	72	47.3	11.3
4	11650.00	47.2 AV	54.0	-6.8	1.14 H	72	35.9	11.3
5	#17475.00	45.7 PK	68.2	-22.5	1.33 H	128	28.1	17.6
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	*5825.00	113.9 PK			1.09 V	111	112.5	1.4
2	*5825.00	106.7 AV			1.09 V	111	105.3	1.4
3	11650.00	53.0 PK	74.0	-21.0	1.23 V	117	41.7	11.3
4	11650.00	43.3 AV	54.0	-10.7	1.23 V	117	32.0	11.3
5	#17475.00	47.5 PK	68.2	-20.7	1.71 V	63	29.9	17.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
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	106.5 PK			1.11 H	84	106.1	0.4
2	*5240.00	96.0 AV			1.11 H	84	95.6	0.4
3	5350.00	53.1 PK	74.0	-20.9	1.11 H	84	52.5	0.6
4	5350.00	44.4 AV	54.0	-9.6	1.11 H	84	43.8	0.6
5	#10480.00	54.7 PK	68.2	-13.5	1.35 H	75	44.2	10.5
6	15720.00	44.7 PK	74.0	-29.3	1.52 H	100	33.2	11.5
7	15720.00	34.9 AV	54.0	-19.1	1.52 H	100	23.4	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	112.1 PK			1.10 V	202	111.7	0.4
2	*5240.00	102.9 AV			1.10 V	202	102.5	0.4
3	5350.00	60.3 PK	74.0	-13.7	1.10 V	202	59.7	0.6
4	5350.00	48.6 AV	54.0	-5.4	1.10 V	202	48.0	0.6
5	#10480.00	61.2 PK	68.2	-7.0	3.80 V	133	50.7	10.5
6	15720.00	46.3 PK	74.0	-27.7	1.74 V	56	34.8	11.5
7	15720.00	36.9 AV	54.0	-17.1	1.74 V	56	25.4	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	105.7 PK			1.05 H	99	105.4	0.3
2	*5300.00	95.6 AV			1.05 H	99	95.3	0.3
3	10600.00	58.3 PK	74.0	-15.7	1.11 H	128	48.4	9.9
4	10600.00	47.8 AV	54.0	-6.2	1.11 H	128	37.9	9.9
5	15900.00	47.3 PK	74.0	-26.7	1.40 H	104	35.7	11.6
6	15900.00	37.9 AV	54.0	-16.1	1.40 H	104	26.3	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	111.3 PK			1.16 V	226	111.0	0.3
2	*5300.00	102.6 AV			1.16 V	226	102.3	0.3
3	10600.00	58.8 PK	74.0	-15.2	3.97 V	87	48.9	9.9
4	10600.00	48.1 AV	54.0	-5.9	3.97 V	87	38.2	9.9
5	15900.00	47.8 PK	74.0	-26.2	1.68 V	78	36.2	11.6
6	15900.00	38.2 AV	54.0	-15.8	1.68 V	78	26.6	11.6

Remarks:

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

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	105.8 PK			1.06 H	113	105.0	0.8
2	*5580.00	95.7 AV			1.06 H	113	94.9	0.8
3	11160.00	58.0 PK	74.0	-16.0	1.13 H	145	47.1	10.9
4	11160.00	47.6 AV	54.0	-6.4	1.13 H	145	36.7	10.9
5	#16740.00	48.0 PK	68.2	-20.2	1.43 H	112	32.9	15.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	112.3 PK			1.13 V	238	111.5	0.8
2	*5580.00	103.1 AV			1.13 V	238	102.3	0.8
3	11160.00	59.3 PK	74.0	-14.7	3.94 V	103	48.4	10.9
4	11160.00	48.6 AV	54.0	-5.4	3.94 V	103	37.7	10.9
5	#16740.00	48.4 PK	68.2	-19.8	1.76 V	56	33.3	15.1

Remarks:

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

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	5460.00	51.6 PK	74.0	-22.4	1.41 H	92	47.2	4.4
2	5460.00	41.6 AV	54.0	-12.4	1.41 H	92	37.2	4.4
3	#5470.00	52.1 PK	68.2	-16.1	1.41 H	92	47.6	4.5
4	*5720.00	106.0 PK			1.41 H	92	101.3	4.7
5	*5720.00	95.9 AV			1.41 H	92	91.2	4.7
6	#5850.00	57.1 PK	68.2	-11.1	1.41 H	92	52.1	5.0
7	11440.00	56.2 PK	74.0	-17.8	1.36 H	181	41.6	14.6
8	11440.00	45.7 AV	54.0	-8.3	1.36 H	181	31.1	14.6
9	#17160.00	48.5 PK	68.2	-19.7	1.74 H	63	30.7	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.8 PK	74.0	-23.2	1.58 V	149	46.4	4.4
2	5460.00	41.0 AV	54.0	-13.0	1.58 V	149	36.6	4.4
3	#5470.00	51.8 PK	68.2	-16.4	1.58 V	149	47.3	4.5
4	*5720.00	112.3 PK			1.58 V	149	107.6	4.7
5	*5720.00	103.2 AV			1.58 V	149	98.5	4.7
6	#5850.00	58.1 PK	68.2	-10.1	1.58 V	149	53.1	5.0
7	11440.00	55.0 PK	74.0	-19.0	3.73 V	97	40.4	14.6
8	11440.00	44.8 AV	54.0	-9.2	3.73 V	97	30.2	14.6
9	#17160.00	48.1 PK	68.2	-20.1	1.91 V	45	30.3	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	*5825.00	102.8 PK			1.05 H	152	101.4	1.4
2	*5825.00	95.7 AV			1.05 H	152	94.3	1.4
3	11650.00	57.2 PK	74.0	-16.8	1.20 H	79	45.9	11.3
4	11650.00	45.9 AV	54.0	-8.1	1.20 H	79	34.6	11.3
5	#17475.00	48.9 PK	68.2	-19.3	1.32 H	140	31.3	17.6
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	*5825.00	113.3 PK			1.23 V	123	111.9	1.4
2	*5825.00	104.1 AV			1.23 V	123	102.7	1.4
3	11650.00	54.6 PK	74.0	-19.4	3.43 V	79	43.3	11.3
4	11650.00	43.1 AV	54.0	-10.9	3.43 V	79	31.8	11.3
5	#17475.00	48.8 PK	68.2	-19.4	3.32 V	219	31.2	17.6

Remarks:

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

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	104.3 PK			3.75 H	207	103.9	0.4
2	*5230.00	94.7 AV			3.75 H	207	94.3	0.4
3	5350.00	53.0 PK	74.0	-21.0	3.75 H	207	52.4	0.6
4	5350.00	41.7 AV	54.0	-12.3	3.75 H	207	41.1	0.6
5	#10460.00	52.4 PK	68.2	-15.8	1.15 H	143	41.8	10.6
6	15690.00	49.7 PK	74.0	-24.3	1.35 H	103	38.1	11.6
7	15690.00	38.5 AV	54.0	-15.5	1.35 H	103	26.9	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	110.8 PK			1.19 V	164	110.4	0.4
2	*5230.00	102.5 AV			1.19 V	164	102.1	0.4
3	5350.00	59.5 PK	74.0	-14.5	1.19 V	164	58.9	0.6
4	5350.00	47.0 AV	54.0	-7.0	1.19 V	164	46.4	0.6
5	#10460.00	52.1 PK	68.2	-16.1	3.41 V	68	41.5	10.6
6	15690.00	49.2 PK	74.0	-24.8	3.15 V	199	37.6	11.6
7	15690.00	38.1 AV	54.0	-15.9	3.15 V	199	26.5	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	53.5 PK	74.0	-20.5	3.68 H	214	52.5	1.0
2	5150.00	42.1 AV	54.0	-11.9	3.68 H	214	41.1	1.0
3	*5270.00	104.2 PK			3.68 H	214	103.9	0.3
4	*5270.00	94.4 AV			3.68 H	214	94.1	0.3
5	#10540.00	51.7 PK	68.2	-16.5	1.10 H	132	41.4	10.3
6	15810.00	48.4 PK	74.0	-25.6	1.26 H	106	37.1	11.3
7	15810.00	37.8 AV	54.0	-16.2	1.26 H	106	26.5	11.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.2 PK	74.0	-14.8	1.14 V	141	58.2	1.0
2	5150.00	48.0 AV	54.0	-6.0	1.14 V	141	47.0	1.0
3	*5270.00	111.1 PK			1.14 V	141	110.8	0.3
4	*5270.00	101.8 AV			1.14 V	141	101.5	0.3
5	#10540.00	52.0 PK	68.2	-16.2	3.41 V	51	41.7	10.3
6	15810.00	49.8 PK	74.0	-24.2	3.19 V	181	38.5	11.3
7	15810.00	38.7 AV	54.0	-15.3	3.19 V	181	27.4	11.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	104.5 PK			1.09 H	144	103.7	0.8
2	*5550.00	93.7 AV			1.09 H	144	92.9	0.8
3	11100.00	51.0 PK	74.0	-23.0	1.13 H	118	40.2	10.8
4	11100.00	41.8 AV	54.0	-12.2	1.13 H	118	31.0	10.8
5	#16650.00	49.4 PK	68.2	-18.8	1.23 H	120	34.7	14.7
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	*5550.00	110.8 PK			1.10 V	149	110.0	0.8
2	*5550.00	102.4 AV			1.10 V	149	101.6	0.8
3	11100.00	51.5 PK	74.0	-22.5	3.31 V	51	40.7	10.8
4	11100.00	43.9 AV	54.0	-10.1	3.31 V	51	33.1	10.8
5	#16650.00	48.8 PK	68.2	-19.4	3.22 V	194	34.1	14.7

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 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	5460.00	52.8 PK	74.0	-21.2	1.55 H	130	48.4	4.4
2	5460.00	43.1 AV	54.0	-10.9	1.55 H	130	38.7	4.4
3	#5470.00	52.9 PK	68.2	-15.3	1.55 H	130	48.4	4.5
4	*5710.00	105.7 PK			1.55 H	130	101.0	4.7
5	*5710.00	94.6 AV			1.55 H	130	89.9	4.7
6	#5850.00	57.3 PK	68.2	-10.9	1.55 H	130	52.3	5.0
7	11420.00	51.0 PK	74.0	-23.0	1.33 H	188	36.5	14.5
8	11420.00	42.2 AV	54.0	-11.8	1.33 H	188	27.7	14.5
9	#17130.00	48.9 PK	68.2	-19.3	1.73 H	82	31.2	17.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.6 PK	74.0	-21.4	1.47 V	165	48.2	4.4
2	5460.00	42.6 AV	54.0	-11.4	1.47 V	165	38.2	4.4
3	#5470.00	52.0 PK	68.2	-16.2	1.47 V	165	47.5	4.5
4	*5710.00	110.1 PK			1.47 V	165	105.4	4.7
5	*5710.00	101.1 AV			1.47 V	165	96.4	4.7
6	#5850.00	56.9 PK	68.2	-11.3	1.47 V	165	51.9	5.0
7	11420.00	51.6 PK	74.0	-22.4	3.72 V	110	37.1	14.5
8	11420.00	42.3 AV	54.0	-11.7	3.72 V	110	27.8	14.5
9	#17130.00	49.3 PK	68.2	-18.9	1.97 V	29	31.6	17.7

Remarks:

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

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	*5795.00	99.4 PK			1.03 H	146	98.0	1.4
2	*5795.00	90.5 AV			1.03 H	146	89.1	1.4
3	11590.00	54.2 PK	74.0	-19.8	1.17 H	93	42.9	11.3
4	11590.00	42.5 AV	54.0	-11.5	1.17 H	93	31.2	11.3
5	#17385.00	48.1 PK	68.2	-20.1	1.34 H	112	31.3	16.8
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	*5795.00	109.8 PK			1.04 V	129	108.4	1.4
2	*5795.00	100.6 AV			1.04 V	129	99.2	1.4
3	11590.00	52.0 PK	74.0	-22.0	3.37 V	41	40.7	11.3
4	11590.00	39.4 AV	54.0	-14.6	3.37 V	41	28.1	11.3
5	#17385.00	49.2 PK	68.2	-19.0	3.18 V	170	32.4	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
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	54.6 PK	74.0	-19.4	3.92 H	208	53.6	1.0
2	5150.00	44.8 AV	54.0	-9.2	3.92 H	208	43.8	1.0
3	*5210.00	96.9 PK			3.92 H	208	96.4	0.5
4	*5210.00	86.6 AV			3.92 H	208	86.1	0.5
5	5350.00	50.5 PK	74.0	-23.5	3.92 H	208	49.9	0.6
6	5350.00	39.2 AV	54.0	-14.8	3.92 H	208	38.6	0.6
7	#10420.00	50.8 PK	68.2	-17.4	1.13 H	159	40.2	10.6
8	15630.00	49.1 PK	74.0	-24.9	1.32 H	68	37.5	11.6
9	15630.00	38.6 AV	54.0	-15.4	1.32 H	68	27.0	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.0 PK	74.0	-16.0	1.15 V	130	57.0	1.0
2	5150.00	50.0 AV	54.0	-4.0	1.15 V	130	49.0	1.0
3	*5210.00	102.8 PK			1.15 V	130	102.3	0.5
4	*5210.00	93.6 AV			1.15 V	130	93.1	0.5
5	5350.00	51.0 PK	74.0	-23.0	1.15 V	130	50.4	0.6
6	5350.00	40.8 AV	54.0	-13.2	1.15 V	130	40.2	0.6
7	#10420.00	52.0 PK	68.2	-16.2	3.25 V	55	41.4	10.6
8	15630.00	48.9 PK	74.0	-25.1	3.16 V	180	37.3	11.6
9	15630.00	37.9 AV	54.0	-16.1	3.16 V	180	26.3	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	5150.00	51.2 PK	74.0	-22.8	3.90 H	204	50.2	1.0
2	5150.00	40.9 AV	54.0	-13.1	3.90 H	204	39.9	1.0
3	*5290.00	96.8 PK			3.90 H	204	96.5	0.3
4	*5290.00	87.5 AV			3.90 H	204	87.2	0.3
5	5350.00	52.8 PK	74.0	-21.2	3.90 H	204	52.2	0.6
6	5350.00	43.3 AV	54.0	-10.7	3.90 H	204	42.7	0.6
7	#10580.00	52.2 PK	68.2	-16.0	1.14 H	158	42.2	10.0
8	15870.00	49.1 PK	74.0	-24.9	1.29 H	63	37.5	11.6
9	15870.00	38.3 AV	54.0	-15.7	1.29 H	63	26.7	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	50.3 PK	74.0	-23.7	1.21 V	162	49.3	1.0
2	5150.00	41.9 AV	54.0	-12.1	1.21 V	162	40.9	1.0
3	*5290.00	104.0 PK			1.21 V	162	103.7	0.3
4	*5290.00	94.9 AV			1.21 V	162	94.6	0.3
5	5350.00	60.3 PK	74.0	-13.7	1.21 V	162	59.7	0.6
6	5350.00	50.3 AV	54.0	-3.7	1.21 V	162	49.7	0.6
7	#10580.00	52.0 PK	68.2	-16.2	3.27 V	65	42.0	10.0
8	15870.00	49.0 PK	74.0	-25.0	3.17 V	190	37.4	11.6
9	15870.00	38.4 AV	54.0	-15.6	3.17 V	190	26.8	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	97.5 PK			1.09 H	140	96.5	1.0
2	*5610.00	88.0 AV			1.09 H	140	87.0	1.0
3	#5725.00	52.6 PK	68.2	-15.6	1.09 H	140	51.3	1.3
4	11220.00	50.5 PK	74.0	-23.5	1.10 H	159	39.5	11.0
5	11220.00	41.2 AV	54.0	-12.8	1.10 H	159	30.2	11.0
6	#16830.00	48.7 PK	68.2	-19.5	1.26 H	66	33.5	15.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	106.1 PK			1.23 V	149	105.1	1.0
2	*5610.00	95.2 AV			1.23 V	149	94.2	1.0
3	#5725.00	60.4 PK	68.2	-7.8	1.23 V	149	59.1	1.3
4	11220.00	50.8 PK	74.0	-23.2	3.24 V	46	39.8	11.0
5	11220.00	41.4 AV	54.0	-12.6	3.24 V	46	30.4	11.0
6	#16830.00	48.1 PK	68.2	-20.1	3.22 V	168	32.9	15.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	5460.00	51.5 PK	74.0	-22.5	1.72 H	127	47.1	4.4
2	5460.00	41.7 AV	54.0	-12.3	1.72 H	127	37.3	4.4
3	#5470.00	52.2 PK	68.2	-16.0	1.72 H	127	47.7	4.5
4	*5690.00	97.9 PK			1.72 H	127	93.4	4.5
5	*5690.00	88.3 AV			1.72 H	127	83.8	4.5
6	#5850.00	56.4 PK	68.2	-11.8	1.72 H	127	51.4	5.0
7	11380.00	51.0 PK	74.0	-23.0	1.27 H	199	36.5	14.5
8	11380.00	42.2 AV	54.0	-11.8	1.27 H	199	27.7	14.5
9	#17070.00	49.8 PK	68.2	-18.4	1.69 H	60	31.9	17.9
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	5460.00	51.8 PK	74.0	-22.2	1.38 V	156	47.4	4.4
2	5460.00	42.1 AV	54.0	-11.9	1.38 V	156	37.7	4.4
3	#5470.00	52.0 PK	68.2	-16.2	1.38 V	156	47.5	4.5
4	*5690.00	108.1 PK			1.38 V	156	103.6	4.5
5	*5690.00	97.1 AV			1.38 V	156	92.6	4.5
6	#5850.00	57.6 PK	68.2	-10.6	1.38 V	156	52.6	5.0
7	11380.00	52.8 PK	74.0	-21.2	3.68 V	102	38.3	14.5
8	11380.00	40.0 AV	54.0	-14.0	3.68 V	102	25.5	14.5
9	#17070.00	49.8 PK	68.2	-18.4	1.93 V	41	31.9	17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
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	*5775.00	95.5 PK			1.01 H	134	94.1	1.4
2	*5775.00	86.5 AV			1.01 H	134	85.1	1.4
3	11550.00	54.7 PK	74.0	-19.3	1.19 H	95	43.3	11.4
4	11550.00	42.6 AV	54.0	-11.4	1.19 H	95	31.2	11.4
5	#17325.00	47.4 PK	68.2	-20.8	1.32 H	89	31.2	16.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5775.00	107.7 PK			1.22 V	35	106.3	1.4
2	*5775.00	97.2 AV			1.22 V	35	95.8	1.4
3	11550.00	51.4 PK	74.0	-22.6	3.39 V	41	40.0	11.4
4	11550.00	39.2 AV	54.0	-14.8	3.39 V	41	27.8	11.4
5	#17325.00	49.4 PK	68.2	-18.8	3.16 V	182	33.2	16.2

Remarks:

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

Below 1GHz Data:

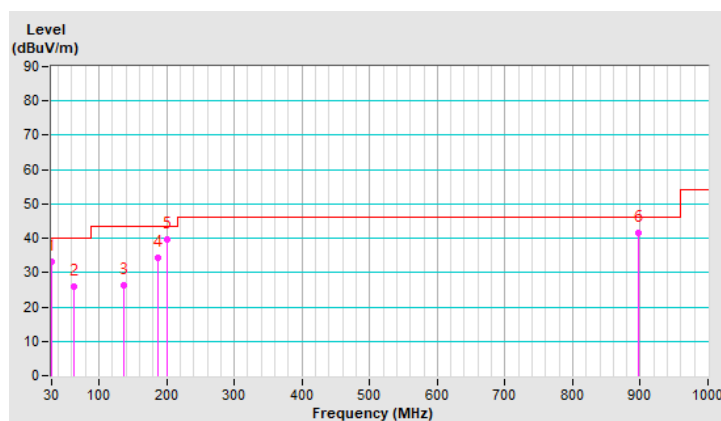
802.11a

RF Mode	TX 802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	9kHz ~ 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	30.54	33.3 QP	40.0	-6.7	2.00 H	91	42.7	-9.4
2	63.19	26.0 QP	40.0	-14.0	1.50 H	170	35.0	-9.0
3	136.53	26.4 QP	43.5	-17.1	1.50 H	138	34.7	-8.3
4	186.36	34.2 QP	43.5	-9.3	1.00 H	155	44.1	-9.9
5	199.79	39.6 QP	43.5	-3.9	1.00 H	175	50.2	-10.6
6	897.95	41.5 QP	46.0	-4.5	1.50 H	244	35.0	6.5

Remarks:

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

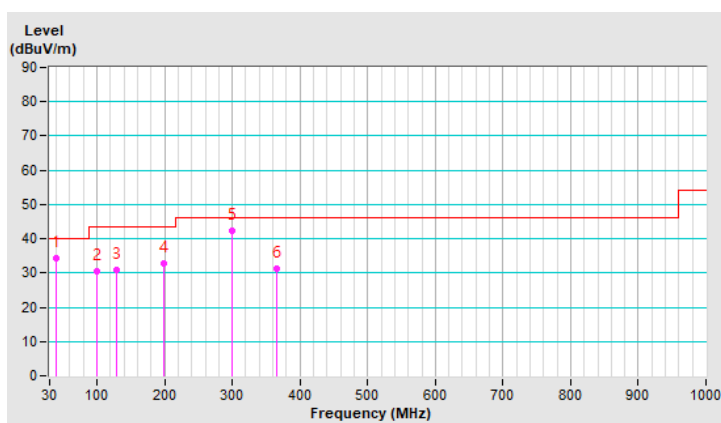


RF Mode	TX 802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	40.11	34.2 QP	40.0	-5.8	1.00 V	216	42.9	-8.7
2	99.66	30.6 QP	43.5	-12.9	1.00 V	194	43.0	-12.4
3	129.05	30.8 QP	43.5	-12.7	1.50 V	225	39.8	-9.0
4	199.02	32.8 QP	43.5	-10.7	2.00 V	189	43.4	-10.6
5	299.15	42.4 QP	46.0	-3.6	1.00 V	247	49.1	-6.7
6	364.95	31.3 QP	46.0	-14.7	2.00 V	163	36.0	-4.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 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 Transmit Power Measurement

4.2.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	✓	Client device	250mW (24 dBm)
U-NII-2A	✓		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	✓		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	✓		1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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

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

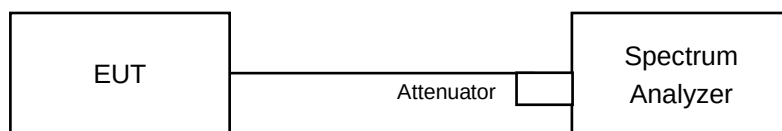
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

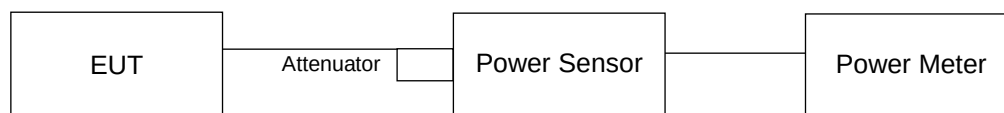
4.2.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

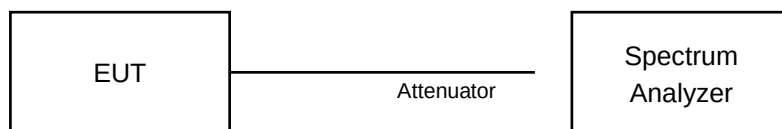
For channel straddling 5725MHz:



For other channels:



FOR 26dB OCCUPIED BANDWIDTH



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedure

FOR POWER OUTPUT MEASUREMENT

For channel straddling 5725MHz:

For 802.11a

Follow FCC KDB 789033 UNII test procedure:

Method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1MHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Set trigger to free run (duty cycle ≥ 98 percent)
7. Detector = RMS.
8. Trace average at least 100 traces in power averaging mode
9. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

For other modulation

Follow FCC KDB 789033 UNII test procedure:

Method SA-2

1. Set span to encompass the emission bandwidth (EBW) of the signal.
2. Set RBW = 1MHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging mode
8. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
9. Duty factor need added to measured value (duty cycle < 98 percent).

For other channels:

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

FOR 26dB OCCUPIED BANDWIDTH

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

4.2.5 Deviation from Test Standard

No deviation.

4.2.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

4.2.7 Test Results

Power Output:

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
48	5240	18.52	18.31	138.886	21.43	24	Pass
60	5300	18.07	18.91	141.925	21.52	24	Pass
116	5580	18.85	18.81	152.769	21.84	24	Pass
*144 (U-NII-2C Band)	5720	17.69	17.59	116.161	20.65	23.06	Pass
*144 (U-NII-3 Band)	5720	11.19	10.95	25.597	14.08	30	Pass
165	5825	20.02	19.46	188.77	22.76	30	Pass

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
60	5300	25	24.97 > 24
116	5580	24.42	24.87 > 24
144 (U-NII-2C Band)	5720	16.09	23.06 < 24

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

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
*144 (U-NII-2C)	5720	16.56	16.37	99.815	19.99	23.05	Pass
*144 (U-NII-3)	5720	11.16	11.17	29.45	14.69	30	Pass

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

Determined Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
144 (U-NII-2C)	5720	16.05	23.05 < 24

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

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
*142 (U-NII-2C)	5710	16.17	16.15	98.019	19.91	24	Pass
*142 (U-NII-3)	5710	5.39	5.16	7.998	9.03	30	Pass

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

Determined Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
142 (U-NII-2C)	5710	35.27	26.47 > 24

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

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
*138 (U-NII-2C)	5690	14.76	14.66	81.584	19.12	24	Pass
*138 (U-NII-3)	5690	0.40	0.18	2.949	4.70	30	Pass

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

Determined Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
138 (U-NII-2C)	5690	75.57	29.78 > 24

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

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
48	5240	18.15	17.89	126.831	21.03	24	Pass
60	5300	17.93	17.55	118.972	20.75	24	Pass
116	5580	18.72	18.50	145.268	21.62	24	Pass
*144 (U-NII-2C Band)	5720	16.77	16.58	104.76	20.20	23.05	Pass
*144 (U-NII-3 Band)	5720	11.15	11.01	28.883	14.61	30	Pass
165	5825	18.81	18.50	146.827	21.67	30	Pass

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
60	5300	22.16	24.45 > 24
116	5580	22.67	24.55 > 24
144 (U-NII-2C Band)	5720	16.05	23.05 < 24

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

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
46	5230	17.73	17.43	114.628	20.59	24	Pass
54	5270	18.10	17.33	118.641	20.74	24	Pass
110	5550	17.90	17.41	116.74	20.67	24	Pass
*142 (U-NII-2C Band)	5710	16.51	16.58	107.108	20.30	24	Pass
*142 (U-NII-3 Band)	5710	5.54	5.44	8.401	9.24	30	Pass
159	5795	17.78	17.43	115.314	20.62	30	Pass

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	40.97	27.12 > 24
110	5550	41.14	27.14 > 24
142 (U-NII-2C Band)	5710	35.27	26.47 > 24

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

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	13.50	13.79	46.32	16.66	24	Pass
58	5290	14.55	14.34	55.675	17.46	24	Pass
122	5610	16.44	17.05	94.755	19.77	24	Pass
*138 (U-NII-2C Band)	5690	14.93	14.75	84.075	19.25	24	Pass
*138 (U-NII-3 Band)	5690	0.64	0.18	3.035	4.82	30	Pass
155	5775	16.63	16.48	90.489	19.57	30	Pass

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 4.92 dBi < 6 dBi, so the output power limit shall not be reduced.

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	81.33	30.1 > 24
122	5610	81.48	30.11 > 24
138 (U-NII-2C Band)	5690	75.57	29.78 > 24

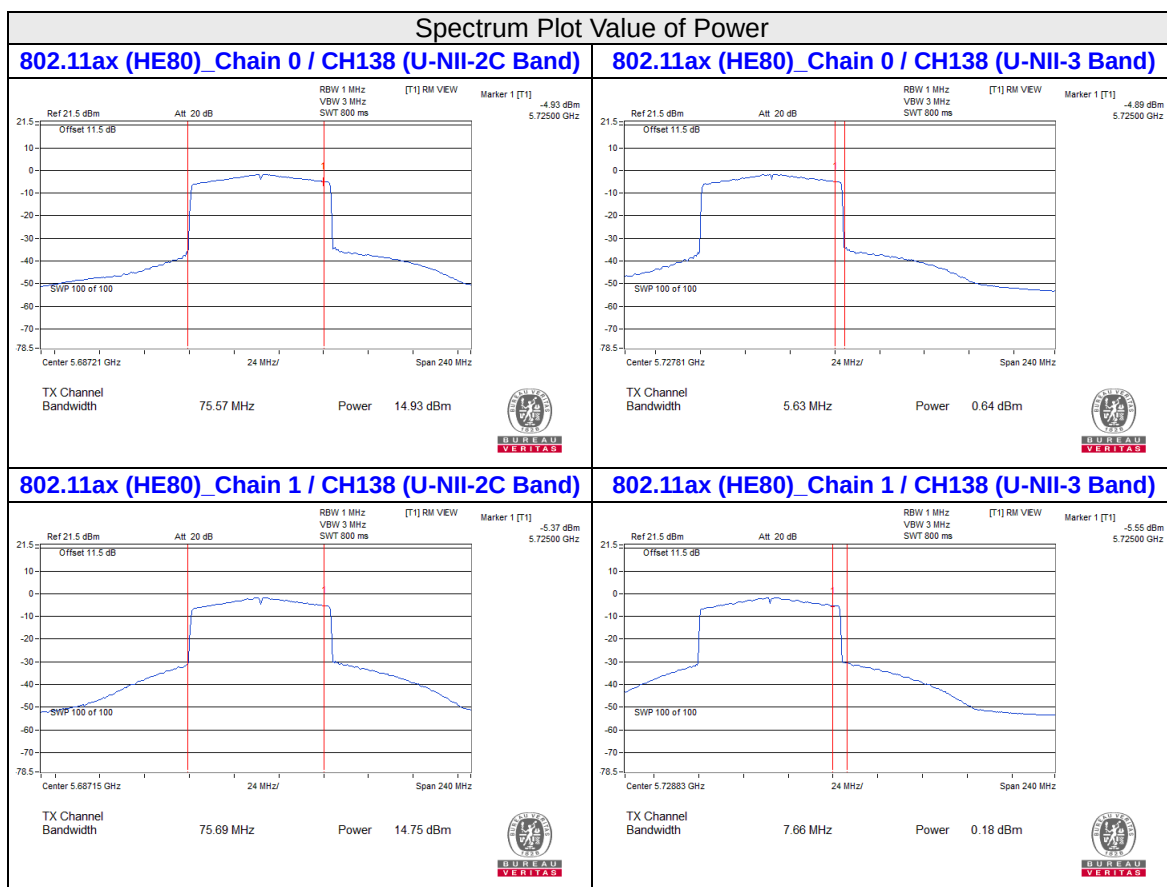
Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

For channel straddling 5725MHz of Power









26dB Bandwidth:

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
60	5300	26.74	25
116	5580	27.15	24.42
144 (U-NII-2C)	5720	16.09	16.19

802.11ax (HE20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
60	5300	22.29	22.16
116	5580	26.49	22.67
144 (U-NII-2C)	5720	16.26	16.05

802.11ax (HE40)

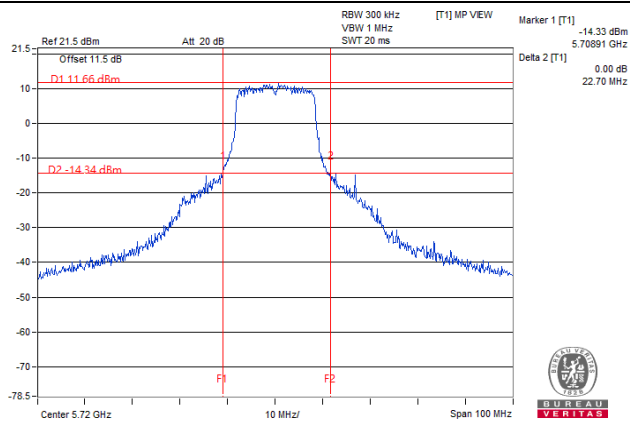
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	41.48	40.97
110	5550	41.14	41.22
142 (U-NII-2C)	5710	35.27	41.84

802.11ax (HE80)

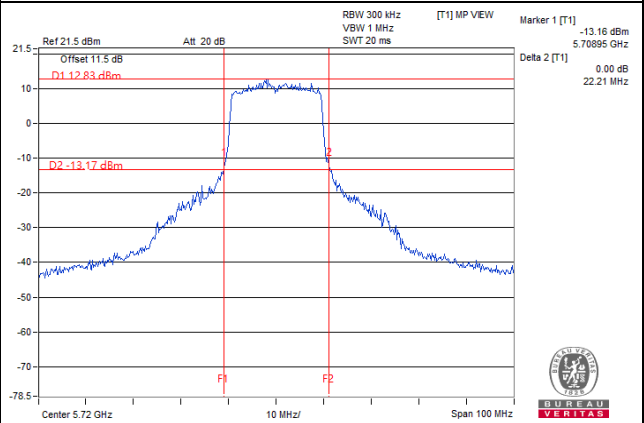
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	81.33	81.42
122	5610	81.48	81.59
138 (U-NII-2C)	5690	75.57	75.69

Spectrum Plot of Min. Value

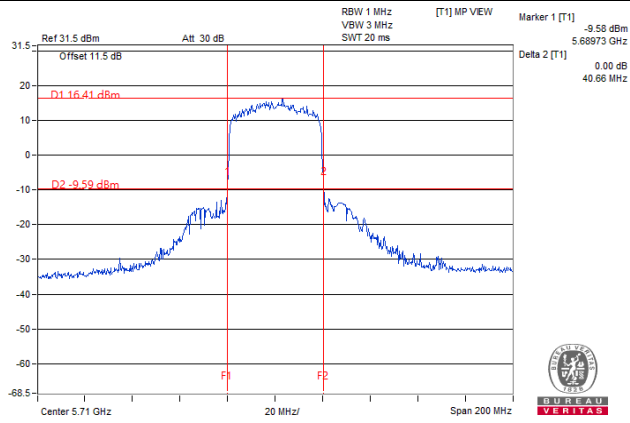
802.11a_Chain 0 / CH144 (U-NII-2C Band)



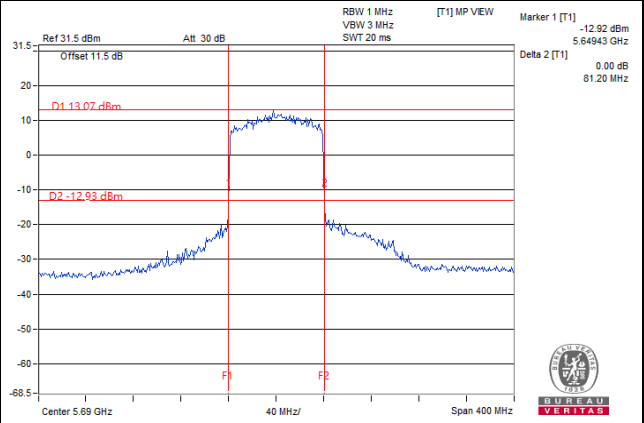
802.11ax (HE20)_Chain 1 / CH144 (U-NII-2C Band)



802.11ax (HE40)_Chain 0 / CH142 (U-NII-2C Band)



802.11ax (HE80)_Chain 0 / CH138 (U-NII-2C Band)



Note:

- For CH144 (U-NII-2C) = 5725MHz - Marker 1
- For CH142 (U-NII-2C) = 5725MHz - Marker 1
- For CH138 (U-NII-2C) = 5725MHz - Marker 1

5 Pictures of Test Arrangements

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

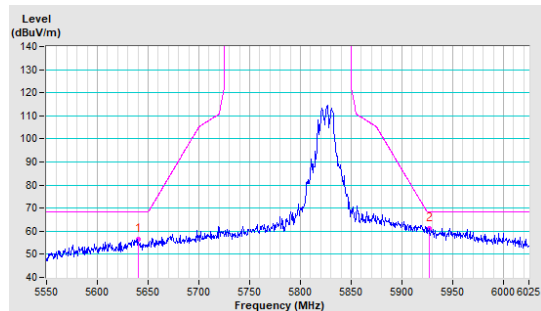
Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

Annex A.1 – Test Results (Mode 1)

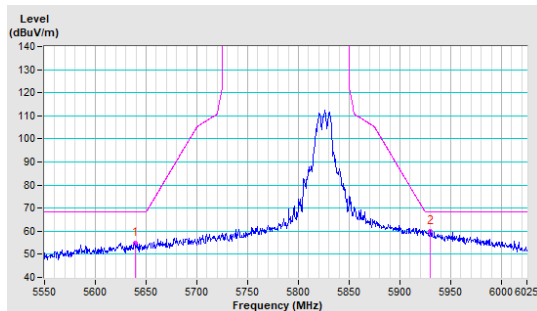
802.11a

CH 165 5825 MHz

Horizontal



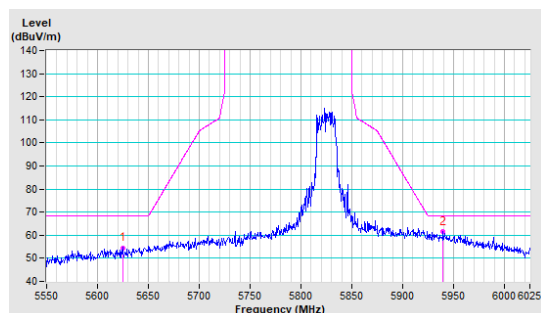
Vertical



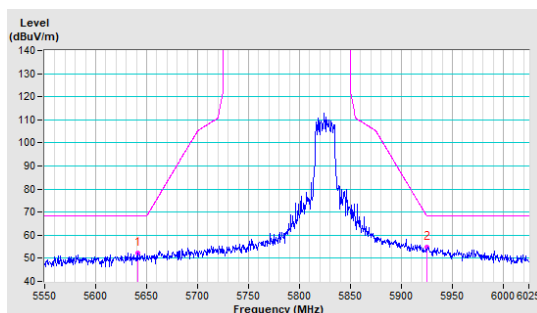
802.11ax (HE20)

CH 165 5825 MHz

Horizontal



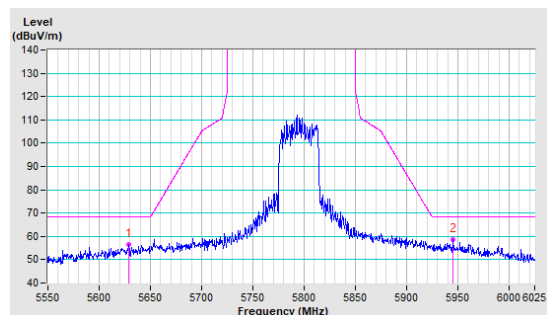
Vertical



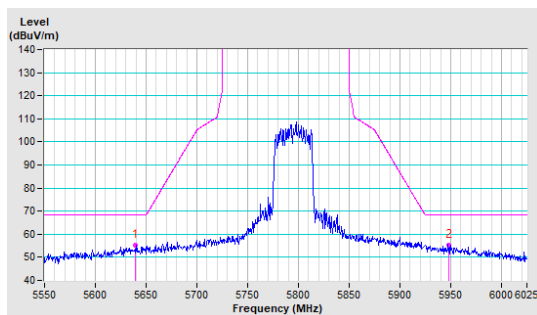
802.11ax (HE40)

CH 159 5795 MHz

Horizontal



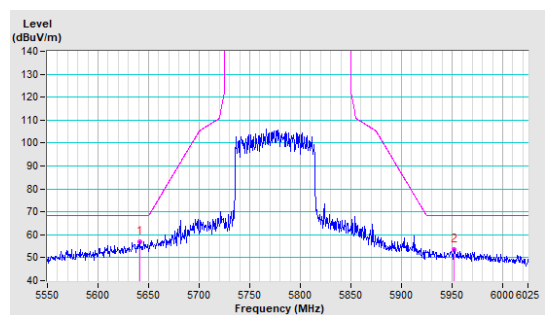
Vertical



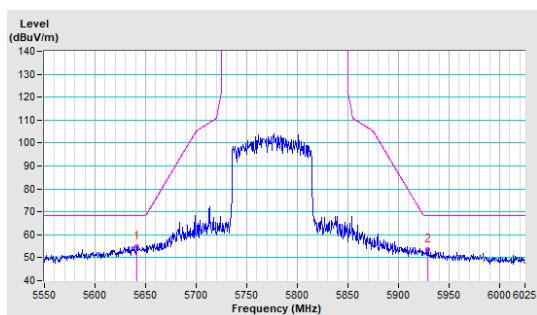
802.11ax (HE80)

CH 155 5775 MHz

Horizontal



Vertical

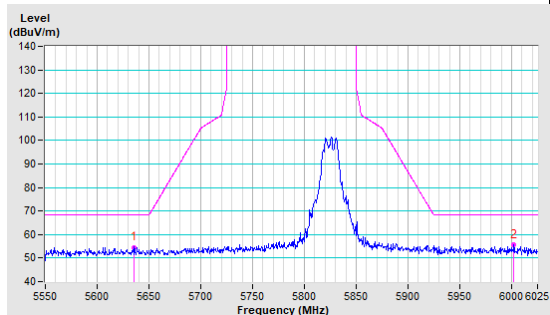


Annex A.2 – Test Results (Mode 2)

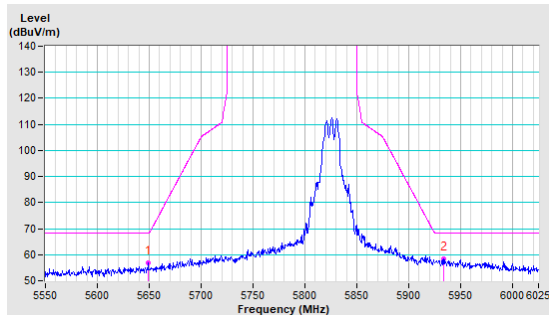
802.11a

CH 165 5825 MHz

Horizontal



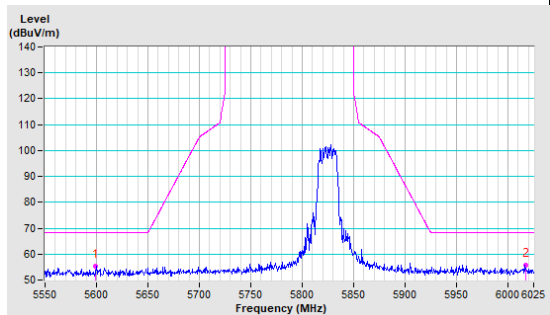
Vertical



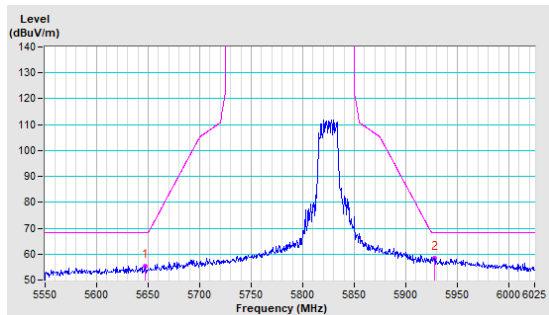
802.11ax (HE20)

CH 165 5825 MHz

Horizontal



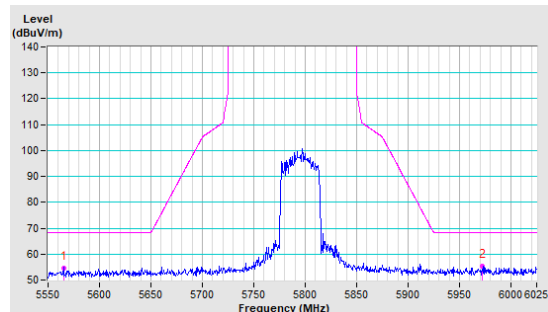
Vertical



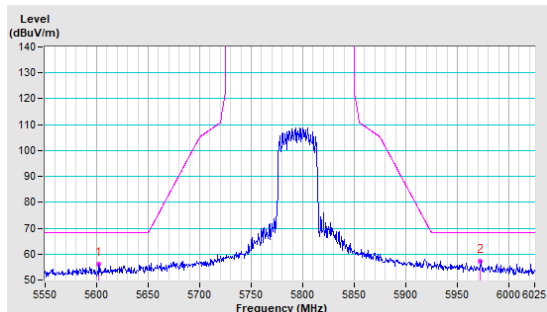
802.11ax (HE40)

CH 159 5795 MHz

Horizontal



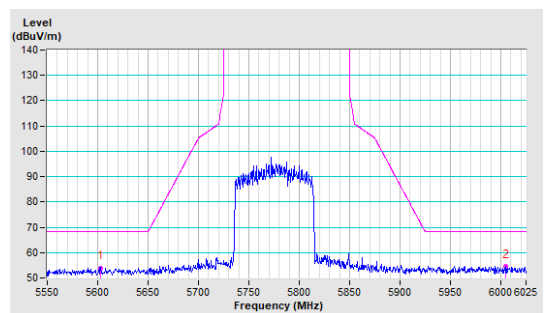
Vertical



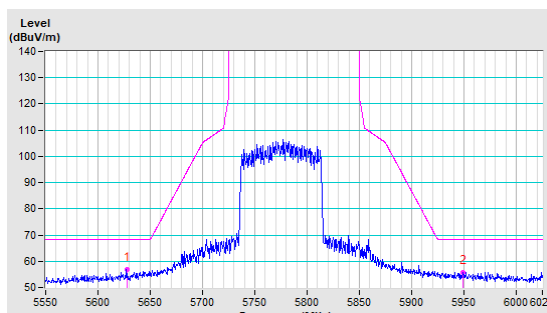
802.11ax (HE80)

CH 155 5775 MHz

Horizontal

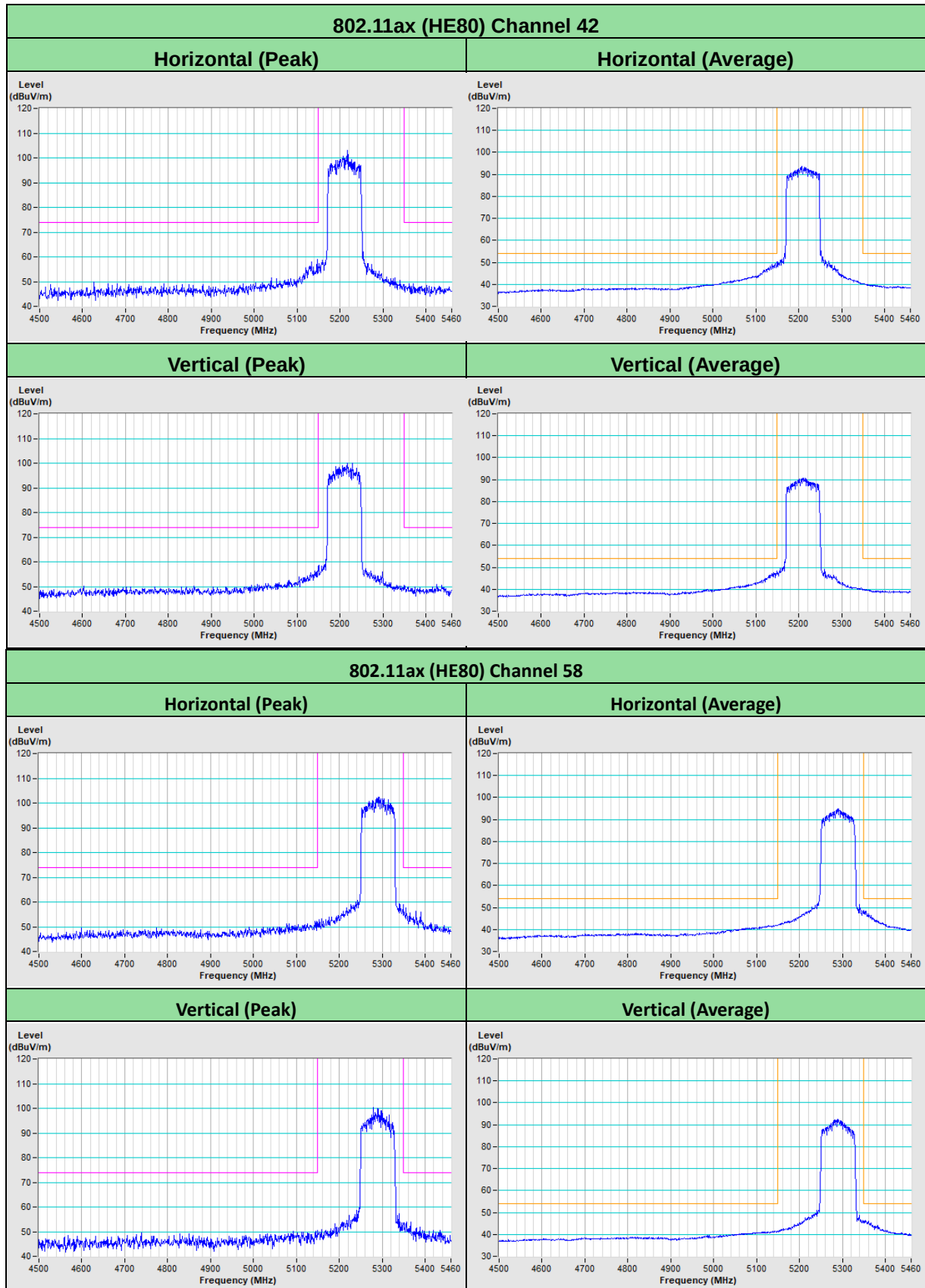


Vertical

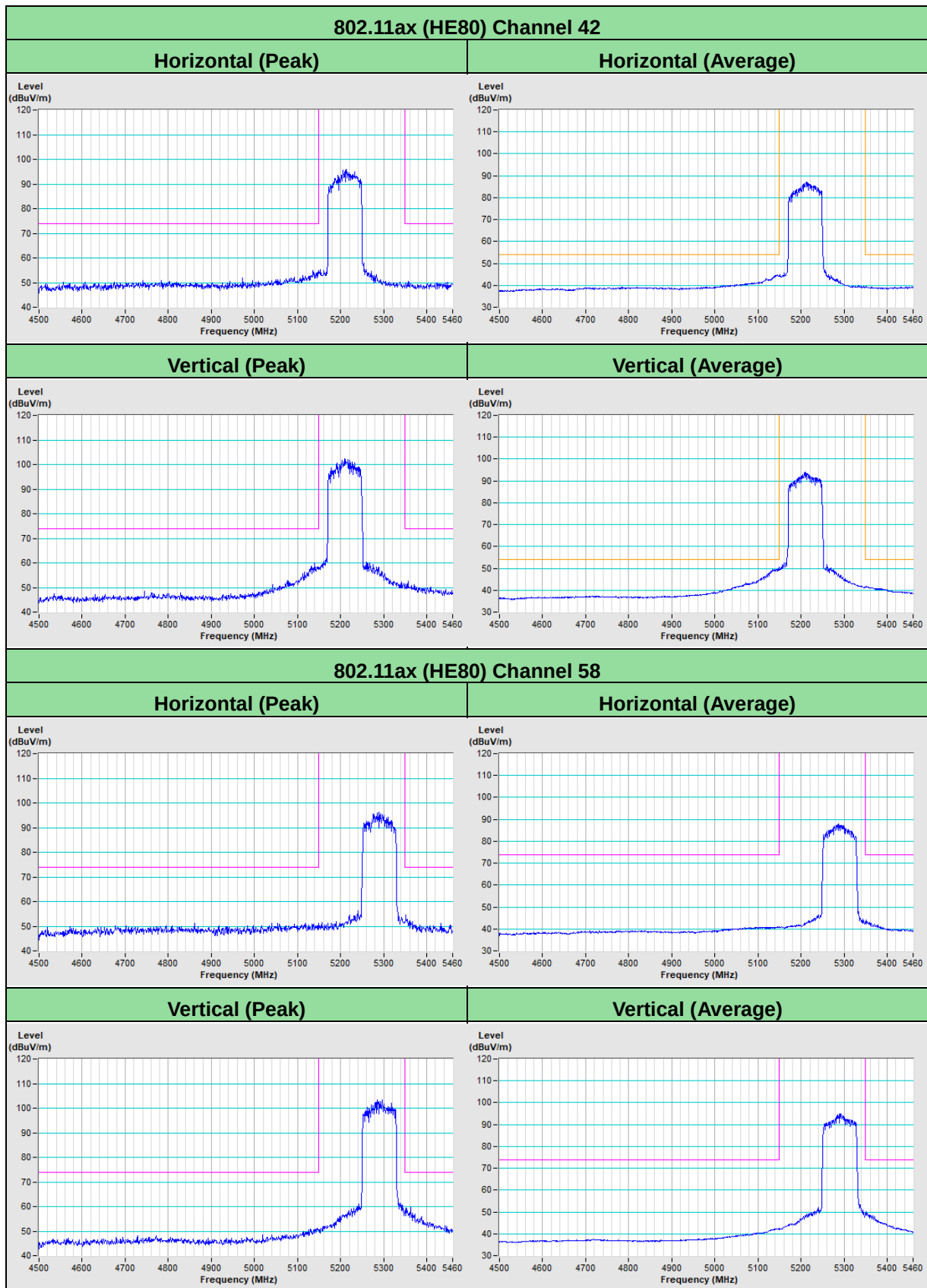


Annex B - Band-Edge Measurement (For U-NII-1 band)

Annex B.1 – Test Results (Mode 1)



Annex B.2 – Test Results (Mode 2)



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:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@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.

--- END ---