

FCC Test Report

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Test Model: MT7922A22M

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Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P21030485-5	Original release	May 21, 2021

1 Certificate of Conformity

Product: 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7922A22M

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: Mar. 22 ~ May 06, 2021

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

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

Prepared by : Celine Chou , **Date:** May 21, 2021
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** May 21, 2021
Bruce Chen / Senior Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(8)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -16.84dB at 0.20523MHz.
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 -0.1dB at 5466.60MHz, 5148.50MHz, 5725.00MHz and 5150.00MHz.
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	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is i-pex(MHF) not a standard connector.

Note:

- For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
- For U-NII-1, U-NII-2A, U-NII-2C band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex B. Test Procedures refer to report 4.1.3.
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.63 dB
	200MHz ~ 1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 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) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7922A22M
Sample Status	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 2401.9Mbps
Operating Frequency	5180 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
Number of Channel	5180 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 8 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2 802.11ac (VHT160), 802.11ax (HE160): 1 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 802.11ac (VHT160), 802.11ax (HE160): 1 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1
Output Power	5180 ~ 5250MHz: 197.711mW 5250 ~ 5320MHz: 195.456mW 5500 ~ 5720MHz: 208.264mW 5745 ~ 5825MHz: 250.930mW
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	NA
Cable Supplied	NA

Note:

1. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Modulation Mode	TX & RX Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ac (VHT160)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX
802.11ax (RU26/52/106/242/484/996/996*2)	2TX	2RX

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

* For Partial RU, after pre-tested, only the worse cases were chosen for final test and presented in the test report. (Final test mode refer section 3.2.1)

2. The following antennas were provided to the EUT.

Ant. No.	RF Chain No.	Brand	Model	Antenna Gain (dBi)	Frequency Range (GHz)	Ant. Type	Connector Type
1	Chain 0	PSA	RFMTA340718 EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex (MHF)
2	Chain 1	PSA	RFMTA340718 EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex (MHF)
3	Chain 0	PSA	RFMTA311020 EMMB301	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)
4	Chain 1	PSA	RFMTA311020 EMMB301	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)

* Ant. 1 and Ant. 2 were the worst case and for final test.

* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3. There are Bluetooth and WLAN (2.4GHz & 5GHz) technology used for the EUT.

4. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (5GHz)	Bluetooth

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

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	44	5220 MHz
40	5200 MHz	48	5240 MHz
52	5260 MHz	60	5300 MHz
56	5280 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	46	5230 MHz
54	5270 MHz	62	5310 MHz

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

Channel	Frequency	Channel	Frequency
42	5210MHz	58	5290MHz

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

Channel	Frequency
50	5250MHz

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	122	5610 MHz
138	5690 MHz		

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

Channel	Frequency
114	5570MHz

For 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

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

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where RE $\geq$ 1G: Radiated Emission above 1GHz & Bandedge Measurement

PLC: Power Line Conducted Emission

RE<1G: Radiated Emission below 1GHz

APCM: Antenna Port Conducted Measurement

Note:

- The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.
- Radiated emission test (below 1GHz) and power line conducted emission test items chosen the worst maximum power.

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.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0
	802.11ax (HE20)_RU26		36 to 48	36	OFDMA	MCS0
	802.11ax (HE20)_RU52		36 to 48	48	OFDMA	MCS0
	802.11ax (HE20)_RU106		36 to 48	36	OFDMA	MCS0
	802.11ax (HE20)_Full RU		36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (HE40)_Full RU		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (HE80)_Full RU		42	42	OFDMA	MCS0
	802.11ax (HE160)_Full RU		50	50	OFDMA	MCS0
-	802.11a	5250-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11ax (HE20)_RU26		52 to 64	64	OFDMA	MCS0
	802.11ax (HE20)_RU106		52 to 64	64	OFDMA	MCS0
	802.11ax (HE20)_Full RU		52 to 64	52, 60, 64	OFDMA	MCS0
	802.11ax (HE40)_Full RU		54 to 62	54, 62	OFDMA	MCS0
	802.11ax (HE80)_Full RU		58	58	OFDMA	MCS0
	802.11ax (HE160)_Full RU		50	50	OFDMA	MCS0
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
	802.11ax (HE20)_RU26		100 to 144	100, 140	OFDMA	MCS0
	802.11ax (HE20)_RU106		100 to 144	100, 140	OFDMA	MCS0
	802.11ax (HE20)_Full RU		100 to 144	100, 116, 140, 144	OFDMA	MCS0
	802.11ax (HE40)_Full RU		102 to 142	102, 110, 134, 142	OFDMA	MCS0
	802.11ax (HE80)_Full RU		106 to 138	106, 122, 138	OFDMA	MCS0
	802.11ax (HE160)_Full RU		114	114	OFDMA	MCS0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11ax (HE20)_RU26		149 to 165	149, 165	OFDMA	MCS0
	802.11ax (HE20)_RU52		149 to 165	165	OFDMA	MCS0
	802.11ax (HE20)_RU106		149 to 165	149, 165	OFDMA	MCS0
	802.11ax (HE20)_Full RU		149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (HE40)_Full RU		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (HE80)_Full RU		155	155	OFDMA	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.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5250	36 to 48	165	OFDM	6.0
-	802.11a	5250-5320	52 to 64		OFDM	6.0
-	802.11a	5500-5720	100 to 144		OFDM	6.0
-	802.11a	5745-5825	149 to 165		OFDM	6.0

Power Line Conducted Emission Test:

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5250	36 to 48	165	OFDM	6.0
-	802.11a	5250-5320	52 to 64		OFDM	6.0
-	802.11a	5500-5720	100 to 144		OFDM	6.0
-	802.11a	5745-5825	149 to 165		OFDM	6.0

Bandwidth, Power Spectral Density and Frequency Stability Measurement:

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0
	802.11ax (HE20)_RU26		36 to 48	36	OFDMA	MCS0
	802.11ax (HE20)_RU52		36 to 48	48	OFDMA	MCS0
	802.11ax (HE20)_RU106		36 to 48	36	OFDMA	MCS0
	802.11ax (HE20)_Full RU		36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (HE40)_Full RU		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (HE80)_Full RU		42	42	OFDMA	MCS0
	802.11ax (HE160)_Full RU		50	50	OFDMA	MCS0
-	802.11a	5250-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11ax (HE20)_RU26		52 to 64	64	OFDMA	MCS0
	802.11ax (HE20)_RU106		52 to 64	64	OFDMA	MCS0
	802.11ax (HE20)_Full RU		52 to 64	52, 60, 64	OFDMA	MCS0
	802.11ax (HE40)_Full RU		54 to 62	54, 62	OFDMA	MCS0
	802.11ax (HE80)_Full RU		58	58	OFDMA	MCS0
	802.11ax (HE160)_Full RU		50	50	OFDMA	MCS0
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
	802.11ax (HE20)_RU26		100 to 144	100, 140	OFDMA	MCS0
	802.11ax (HE20)_RU106		100 to 144	100, 140	OFDMA	MCS0
	802.11ax (HE20)_Full RU		100 to 144	100, 116, 140, 144	OFDMA	MCS0
	802.11ax (HE40)_Full RU		102 to 142	102, 110, 134, 142	OFDMA	MCS0
	802.11ax (HE80)_Full RU		106 to 138	106, 122, 138	OFDMA	MCS0
	802.11ax (HE160)_Full RU		114	114	OFDMA	MCS0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11ax (HE20)_RU26		149 to 165	149, 165	OFDMA	MCS0
	802.11ax (HE20)_RU52		149 to 165	165	OFDMA	MCS0
	802.11ax (HE20)_RU106		149 to 165	149, 165	OFDMA	MCS0
	802.11ax (HE20)_Full RU		149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (HE40)_Full RU		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (HE80)_Full RU		155	155	OFDMA	MCS0

Transmit Power Measurement:

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0
	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11ac (VHT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
	802.11ac (VHT160)		50	50	OFDM	58.5
	802.11ax (HE20)_RU26		36 to 48	36	OFDMA	MCS0
	802.11ax (HE20)_RU52		36 to 48	48	OFDMA	MCS0
	802.11ax (HE20)_RU106		36 to 48	36	OFDMA	MCS0
	802.11ax (HE20)_Full RU		36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (HE40)_Full RU		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (HE80)_Full RU		42	42	OFDMA	MCS0
	802.11ax (HE160)_Full RU		50	50	OFDMA	MCS0
-	802.11a	5250-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11ac (VHT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	29.3
	802.11ac (VHT160)		50	50	OFDM	58.5
	802.11ax (HE20)_RU26		52 to 64	64	OFDMA	MCS0
	802.11ax (HE20)_RU106		52 to 64	64	OFDMA	MCS0
	802.11ax (HE20)_Full RU		52 to 64	52, 60, 64	OFDMA	MCS0
	802.11ax (HE40)_Full RU		54 to 62	54, 62	OFDMA	MCS0
	802.11ax (HE80)_Full RU		58	58	OFDMA	MCS0
	802.11ax (HE160)_Full RU		50	50	OFDMA	MCS0
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
	802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	6.5
	802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	13.5
	802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	29.3
	802.11ac (VHT160)		114	114	OFDM	58.5
	802.11ax (HE20)_RU26		100 to 144	100, 140	OFDMA	MCS0
	802.11ax (HE20)_RU106		100 to 144	100, 140	OFDMA	MCS0
	802.11ax (HE20)_Full RU		100 to 144	100, 116, 140, 144	OFDMA	MCS0
	802.11ax (HE40)_Full RU		102 to 142	102, 110, 134, 142	OFDMA	MCS0
	802.11ax (HE80)_Full RU		106 to 138	106, 122, 138	OFDMA	MCS0
	802.11ax (HE160)_Full RU		114	114	OFDMA	MCS0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11ac (VHT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3
	802.11ax (HE20)_RU26		149 to 165	149, 165	OFDMA	MCS0
	802.11ax (HE20)_RU52		149 to 165	165	OFDMA	MCS0
	802.11ax (HE20)_RU106		149 to 165	149, 165	OFDMA	MCS0
	802.11ax (HE20)_Full RU		149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (HE40)_Full RU		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (HE80)_Full RU		155	155	OFDMA	MCS0

Test Condition:

Applicable to	Environmental Conditions	Input Power (System)	Tested by
RE$\geq$1G	25 deg. C, 70% RH	120Vac, 60Hz	Luis Lee
RE<1G	21 deg. C, 64% RH	120Vac, 60Hz	Luis Lee
PLC	25 deg. C, 70% RH	120Vac, 60Hz	Rex Wang
APCM	25 deg. C, 70% RH	120Vac, 60Hz	Dalen Dai

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98%, duty factor is required.

802.11a: Duty cycle = $1.385/1.625 = 0.852$, Duty factor = $10 * \log(1/0.852) = 0.69$

802.11ax (HE20)_Full RU: Duty cycle = $3.875/4.235 = 0.915$, Duty factor = $10 * \log(1/0.915) = 0.39$

802.11ax (HE40)_Full RU: Duty cycle = $3.775/4.255 = 0.887$, Duty factor = $10 * \log(1/0.887) = 0.52$

802.11ax (HE80)_Full RU: Duty cycle = $1.837/2.322 = 0.791$, Duty factor = $10 * \log(1/0.791) = 1.02$

802.11ax (HE160)_Full RU: Duty cycle = $0.955/1.430 = 0.668$, Duty factor = $10 * \log(1/0.668) = 1.75$

Spectrum Plot of Worst Value



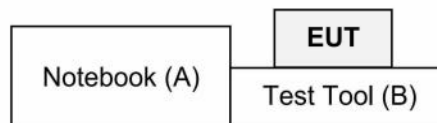
3.4 Description of Support Units

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.	Notebook	DELL	E5410	1HC2XM1	FCC DoC Approved	-
B.	Test Tool	Media Tek	MTK1849	N/A	N/A	Provided by manufacturer

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

3.4.1 Configuration of System under 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:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 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}
	☐	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
^{*1} beyond 75 MHz or more above of the band edge.			^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.			^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Dec. 31, 2020	Dec. 30, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 16, 2020	Sep. 15, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 03, 2020	Nov. 02, 2021
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Loop Antenna TESEQ	HLA 6121	45745	Jul. 06, 2020	Jul. 05, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Jun. 08, 2020	Jun. 07, 2021
Preamplifier KEYSIGHT (Above 1GHz)	83017A	MY53270295	Jun. 08, 2020	Jun. 07, 2021
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH4-01	Aug. 16, 2020	Aug. 15, 2021
RF Coaxial Cable EMCI	EMC102-KM-KM-3000	150929	Aug. 16, 2020	Aug. 15, 2021
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Jun. 08, 2020	Jun. 07, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Jun. 08, 2020	Jun. 07, 2021
Software BV ADT	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Sep. 04, 2020	Sep. 03, 2021
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55190004/MY55190007/MY55210005	Jul. 13, 2020	Jul. 12, 2021

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 4.

4.1.3 Test Procedures

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 detect 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:

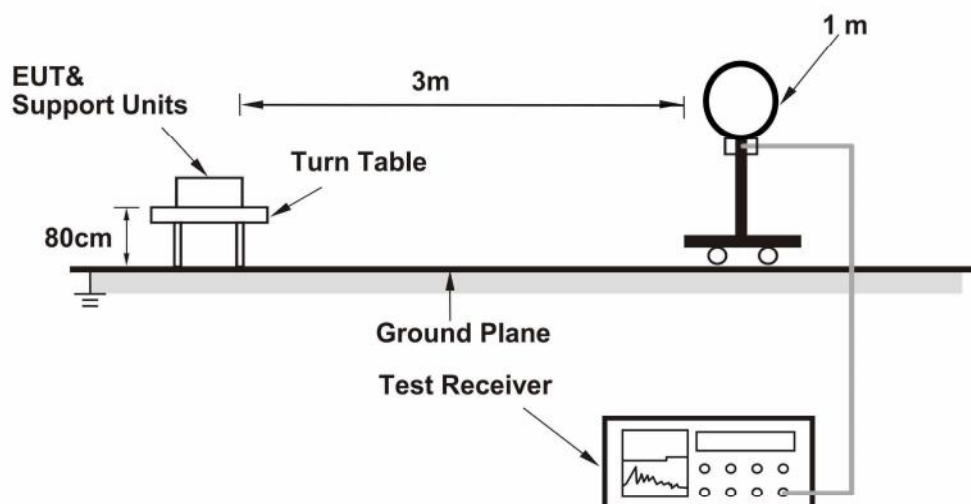
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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. (802.11a: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE20)_RU26, RU52, RU106 and Full RU: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE80): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE160): RBW = 1MHz, VBW = 3kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

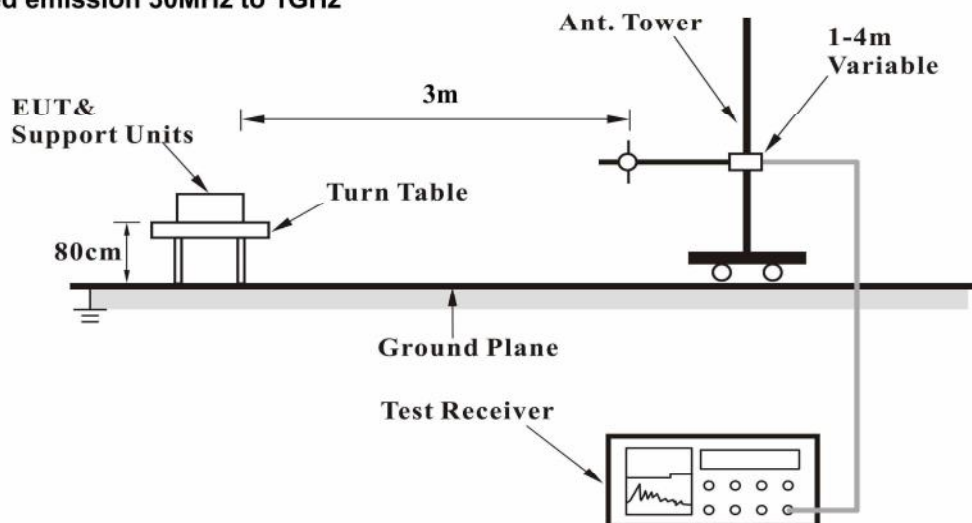
No deviation.

4.1.5 Test Setup

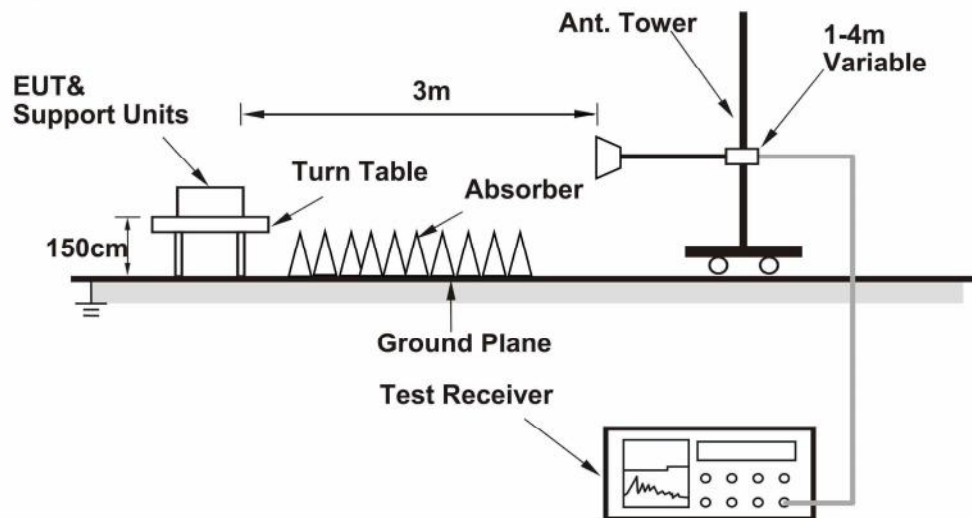
For Radiated emission below 30MHz



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 Conditions

- a. Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz data:

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5147.50	64.4 PK	74.0	-9.6	2.36 H	220	61.1	3.3
2	5147.50	52.3 AV	54.0	-1.7	2.36 H	220	49.0	3.3
3	*5180.00	118.8 PK			2.36 H	220	78.0	40.8
4	*5180.00	110.1 AV			2.36 H	220	69.3	40.8
5	#10360.00	58.3 PK	68.2	-9.9	2.46 H	202	50.3	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5147.50	70.1 PK	74.0	-3.9	1.00 V	182	66.8	3.3
2	5147.50	53.6 AV	54.0	-0.4	1.00 V	182	50.3	3.3
3	*5180.00	120.5 PK			1.00 V	182	79.7	40.8
4	*5180.00	111.6 AV			1.00 V	182	70.8	40.8
5	#10360.00	58.5 PK	68.2	-9.7	1.11 V	284	50.4	8.1

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 40 : 5200 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5147.70	62.5 PK	74.0	-11.5	2.38 H	229	59.2	3.3
2	5147.70	50.1 AV	54.0	-3.9	2.38 H	229	46.8	3.3
3	*5200.00	120.0 PK			2.38 H	229	79.2	40.8
4	*5200.00	110.9 AV			2.38 H	229	70.1	40.8
5	#10400.00	58.7 PK	68.2	-9.5	2.33 H	214	50.6	8.1
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	5147.70	67.0 PK	74.0	-7.0	1.10 V	182	63.7	3.3
2	5147.70	53.6 AV	54.0	-0.4	1.10 V	182	50.3	3.3
3	*5200.00	122.2 PK			1.10 V	182	81.4	40.8
4	*5200.00	113.1 AV			1.10 V	182	72.3	40.8
5	#10400.00	60.2 PK	68.2	-8.0	1.13 V	285	52.1	8.1

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 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	117.3 PK			2.37 H	225	76.5	40.8
2	*5240.00	109.4 AV			2.37 H	225	68.6	40.8
3	5350.00	57.1 PK	74.0	-16.9	2.37 H	225	54.2	2.9
4	5350.00	46.7 AV	54.0	-7.3	2.37 H	225	43.8	2.9
5	#10480.00	58.1 PK	68.2	-10.1	2.29 H	254	50.3	7.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	119.6 PK			1.03 V	182	78.8	40.8
2	*5240.00	111.6 AV			1.03 V	182	70.8	40.8
3	5350.00	57.8 PK	74.0	-16.2	1.03 V	182	54.9	2.9
4	5350.00	47.1 AV	54.0	-6.9	1.03 V	182	44.2	2.9
5	#10480.00	59.6 PK	68.2	-8.6	1.15 V	285	51.8	7.8

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.6 PK	74.0	-16.4	2.34 H	216	54.3	3.3
2	5150.00	46.4 AV	54.0	-7.6	2.34 H	216	43.1	3.3
3	*5260.00	121.3 PK			2.34 H	216	80.5	40.8
4	*5260.00	112.0 AV			2.34 H	216	71.2	40.8
5	#10520.00	57.1 PK	68.2	-11.1	2.10 H	185	49.4	7.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	1.07 V	191	54.8	3.3
2	5150.00	46.6 AV	54.0	-7.4	1.07 V	191	43.3	3.3
3	*5260.00	122.6 PK			1.07 V	191	81.8	40.8
4	*5260.00	113.1 AV			1.07 V	191	72.3	40.8
5	#10520.00	59.6 PK	68.2	-8.6	1.14 V	286	51.9	7.7

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	121.7 PK			2.35 H	216	80.9	40.8
2	*5300.00	112.0 AV			2.35 H	216	71.2	40.8
3	5350.00	62.2 PK	74.0	-11.8	2.35 H	216	59.3	2.9
4	5350.00	51.3 AV	54.0	-2.7	2.35 H	216	48.4	2.9
5	10600.00	56.0 PK	74.0	-18.0	2.41 H	215	48.2	7.8
6	10600.00	44.8 AV	54.0	-9.2	2.41 H	215	37.0	7.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	122.1 PK			1.05 V	191	81.3	40.8
2	*5300.00	112.4 AV			1.05 V	191	71.6	40.8
3	5350.00	65.4 PK	74.0	-8.6	1.05 V	191	62.5	2.9
4	5350.00	53.2 AV	54.0	-0.8	1.05 V	191	50.3	2.9
5	10600.00	56.1 PK	74.0	-17.9	2.14 V	186	48.3	7.8
6	10600.00	45.0 AV	54.0	-9.0	2.14 V	186	37.2	7.8

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	119.5 PK			2.32 H	219	78.8	40.7
2	*5320.00	110.7 AV			2.32 H	219	70.0	40.7
3	5351.00	64.6 PK	74.0	-9.4	2.32 H	219	61.7	2.9
4	5351.00	53.3 AV	54.0	-0.7	2.32 H	219	50.4	2.9
5	10640.00	56.5 PK	74.0	-17.5	2.44 H	210	48.5	8.0
6	10640.00	45.5 AV	54.0	-8.5	2.44 H	210	37.5	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	119.2 PK			1.06 V	201	78.5	40.7
2	*5320.00	110.8 AV			1.06 V	201	70.1	40.7
3	5351.00	64.7 PK	74.0	-9.3	1.06 V	201	61.8	2.9
4	5351.00	53.5 AV	54.0	-0.5	1.06 V	201	50.6	2.9
5	10640.00	56.8 PK	74.0	-17.2	1.53 V	188	48.8	8.0
6	10640.00	45.6 AV	54.0	-8.4	1.53 V	188	37.6	8.0

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.8 PK	74.0	-13.2	2.45 H	217	57.8	3.0
2	5460.00	47.7 AV	54.0	-6.3	2.45 H	217	44.7	3.0
3	#5466.60	68.1 PK	68.2	-0.1	2.45 H	217	65.1	3.0
4	*5500.00	118.7 PK			2.45 H	217	77.5	41.2
5	*5500.00	108.7 AV			2.45 H	217	67.5	41.2
6	11000.00	54.9 PK	74.0	-19.1	2.56 H	227	47.4	7.5
7	11000.00	44.4 AV	54.0	-9.6	2.56 H	227	36.9	7.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.2 PK	74.0	-13.8	1.12 V	191	57.2	3.0
2	5460.00	49.3 AV	54.0	-4.7	1.12 V	191	46.3	3.0
3	#5470.00	67.0 PK	68.2	-1.2	1.12 V	191	64.0	3.0
4	*5500.00	118.3 PK			1.12 V	191	77.1	41.2
5	*5500.00	109.9 AV			1.12 V	191	68.7	41.2
6	11000.00	55.1 PK	74.0	-18.9	1.52 V	188	47.6	7.5
7	11000.00	44.4 AV	54.0	-9.6	1.52 V	188	36.9	7.5

Remarks:

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

RF Mode	TX 802.11a	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	119.5 PK			2.35 H	214	78.1	41.4
2	*5580.00	110.4 AV			2.35 H	214	69.0	41.4
3	11160.00	57.0 PK	74.0	-17.0	2.49 H	200	48.5	8.5
4	11160.00	45.8 AV	54.0	-8.2	2.49 H	200	37.3	8.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	120.8 PK			1.17 V	192	79.4	41.4
2	*5580.00	111.7 AV			1.17 V	192	70.3	41.4
3	11160.00	57.2 PK	74.0	-16.8	1.61 V	182	48.7	8.5
4	11160.00	46.1 AV	54.0	-7.9	1.61 V	182	37.6	8.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	116.8 PK			2.32 H	219	74.8	42.0
2	*5700.00	108.2 AV			2.32 H	219	66.2	42.0
3	#5725.00	67.3 PK	68.2	-0.9	2.32 H	219	63.2	4.1
4	11400.00	54.8 PK	74.0	-19.2	2.49 H	203	46.4	8.4
5	11400.00	43.8 AV	54.0	-10.2	2.49 H	203	35.4	8.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	117.1 PK			1.09 V	191	75.1	42.0
2	*5700.00	109.1 AV			1.09 V	191	67.1	42.0
3	#5725.00	68.0 PK	68.2	-0.2	1.09 V	191	63.9	4.1
4	11400.00	55.1 PK	74.0	-18.9	1.42 V	193	46.7	8.4
5	11400.00	44.9 AV	54.0	-9.1	1.42 V	193	36.5	8.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	59.4 PK	68.2	-8.8	2.40 H	219	56.4	3.0
2	*5720.00	121.1 PK			2.40 H	219	79.0	42.1
3	*5720.00	112.0 AV			2.40 H	219	69.9	42.1
4	#5850.00	61.9 PK	68.2	-6.3	2.40 H	219	57.5	4.4
5	11440.00	55.3 PK	74.0	-18.7	2.49 H	231	46.9	8.4
6	11440.00	43.6 AV	54.0	-10.4	2.49 H	231	35.2	8.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	59.9 PK	68.2	-8.3	1.00 V	184	56.9	3.0
2	*5720.00	113.3 PK			1.00 V	184	71.2	42.1
3	*5720.00	112.1 AV			1.00 V	184	70.0	42.1
4	#5850.00	62.2 PK	68.2	-6.0	1.00 V	184	57.8	4.4
5	11440.00	55.6 PK	74.0	-18.4	1.63 V	199	47.2	8.4
6	11440.00	44.6 AV	54.0	-9.4	1.63 V	199	36.2	8.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5608.00	59.6 PK	68.2	-8.6	2.32 H	223	56.1	3.5
2	*5745.00	120.3 PK			2.32 H	223	116.2	4.1
3	*5745.00	110.0 AV			2.32 H	223	105.9	4.1
4	#5943.60	61.7 PK	68.2	-6.5	2.32 H	223	57.2	4.5
5	11490.00	60.8 PK	74.0	-13.2	2.01 H	198	52.3	8.5
6	11490.00	47.6 AV	54.0	-6.4	2.01 H	198	39.1	8.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.80	63.0 PK	68.2	-5.2	1.12 V	175	59.2	3.8
2	*5745.00	120.9 PK			1.12 V	175	116.8	4.1
3	*5745.00	110.2 AV			1.12 V	175	106.1	4.1
4	#5981.20	62.4 PK	68.2	-5.8	1.12 V	175	57.8	4.6
5	11490.00	61.1 PK	74.0	-12.9	1.51 V	180	52.6	8.5
6	11490.00	48.2 AV	54.0	-5.8	1.51 V	180	39.7	8.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5637.60	61.0 PK	68.2	-7.2	2.37 H	225	57.2	3.8
2	*5785.00	119.2 PK			2.37 H	225	76.7	42.5
3	*5785.00	109.8 AV			2.37 H	225	67.3	42.5
4	#5942.40	62.4 PK	68.2	-5.8	2.37 H	225	57.9	4.5
5	11570.00	60.4 PK	74.0	-13.6	1.97 H	196	51.6	8.8
6	11570.00	47.3 AV	54.0	-6.7	1.97 H	196	38.5	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5611.20	62.1 PK	68.2	-6.1	1.00 V	185	58.6	3.5
2	*5785.00	120.0 PK			1.00 V	185	115.7	4.3
3	*5785.00	109.8 AV			1.00 V	185	105.5	4.3
4	#5934.40	63.3 PK	68.2	-4.9	1.00 V	185	58.8	4.5
5	11570.00	60.8 PK	74.0	-13.2	1.43 V	178	52.0	8.8
6	11570.00	48.0 AV	54.0	-6.0	1.43 V	178	39.2	8.8

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.60	60.5 PK	68.2	-7.7	2.45 H	219	56.7	3.8
2	*5825.00	120.5 PK			2.45 H	219	77.9	42.6
3	*5825.00	110.3 AV			2.45 H	219	67.7	42.6
4	#5953.20	61.9 PK	68.2	-6.3	2.45 H	219	57.3	4.6
5	11650.00	60.2 PK	74.0	-13.8	1.98 H	202	51.4	8.8
6	11650.00	47.4 AV	54.0	-6.6	1.98 H	202	38.6	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.40	60.8 PK	68.2	-7.4	1.02 V	187	57.0	3.8
2	*5825.00	120.3 PK			1.02 V	187	77.7	42.6
3	*5825.00	109.9 AV			1.02 V	187	67.3	42.6
4	#5946.40	62.8 PK	68.2	-5.4	1.02 V	187	58.2	4.6
5	11650.00	60.7 PK	74.0	-13.3	1.51 V	182	51.9	8.8
6	11650.00	48.1 AV	54.0	-5.9	1.51 V	182	39.3	8.8

Remarks:

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

RF Mode	TX 802.11ax (HE20) RU26	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5136.05	73.5 PK	74.0	-0.5	2.57 H	214	70.3	3.2
2	5136.05	50.9 AV	54.0	-3.1	2.57 H	214	47.7	3.2
3	*5180.00	126.1 PK			2.57 H	214	85.3	40.8
4	*5180.00	114.9 AV			2.57 H	214	74.1	40.8
5	#10360.00	66.2 PK	68.2	-2.0	3.02 H	216	58.2	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5136.50	73.3 PK	74.0	-0.7	1.25 V	174	70.1	3.2
2	5136.50	50.7 AV	54.0	-3.3	1.25 V	174	47.5	3.2
3	*5180.00	128.3 PK			1.25 V	174	87.5	40.8
4	*5180.00	117.6 AV			1.25 V	174	76.8	40.8
5	#10360.00	67.2 PK	68.2	-1.0	2.51 V	226	59.2	8.0

Remarks:

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

RF Mode	TX 802.11ax (HE20) RU26	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	125.0 PK			2.59 H	212	84.3	40.7
2	*5320.00	115.2 AV			2.59 H	212	74.5	40.7
3	5361.30	73.4 PK	74.0	-0.6	2.59 H	212	70.6	2.8
4	5361.30	49.1 AV	54.0	-4.9	2.59 H	212	46.3	2.8
5	10640.00	60.5 PK	74.0	-13.5	2.83 H	218	52.5	8.0
6	10640.00	50.9 AV	54.0	-3.1	2.83 H	218	42.9	8.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	128.4 PK			1.22 V	186	87.7	40.7
2	*5320.00	116.0 AV			1.22 V	186	75.3	40.7
3	5361.30	71.5 PK	74.0	-2.5	1.22 V	186	68.7	2.8
4	5361.30	50.0 AV	54.0	-4.0	1.22 V	186	47.2	2.8
5	10640.00	60.3 PK	74.0	-13.7	2.55 V	230	52.3	8.0
6	10640.00	50.8 AV	54.0	-3.2	2.55 V	230	42.8	8.0

Remarks:

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

RF Mode	TX 802.11ax (HE20) RU26	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	71.1 PK	74.0	-2.9	2.37 H	219	68.1	3.0
2	5460.00	48.6 AV	54.0	-5.4	2.37 H	219	45.6	3.0
3	#5461.70	67.6 PK	68.2	-0.6	2.37 H	219	64.6	3.0
4	*5500.00	129.0 PK			2.37 H	219	87.8	41.2
5	*5500.00	117.8 AV			2.37 H	219	76.6	41.2
6	11000.00	61.7 PK	74.0	-12.3	2.28 H	220	54.2	7.5
7	11000.00	52.0 AV	54.0	-2.0	2.28 H	220	44.5	7.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.2 PK	74.0	-12.8	1.11 V	188	58.2	3.0
2	5460.00	48.9 AV	54.0	-5.1	1.11 V	188	45.9	3.0
3	#5461.70	66.5 PK	68.2	-1.7	1.11 V	188	63.5	3.0
4	*5500.00	126.0 PK			1.11 V	188	84.8	41.2
5	*5500.00	116.0 AV			1.11 V	188	74.8	41.2
6	11000.00	61.5 PK	74.0	-12.5	2.56 V	227	54.0	7.5
7	11000.00	51.3 AV	54.0	-2.7	2.56 V	227	43.8	7.5

Remarks:

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

RF Mode	TX 802.11ax (HE20) RU26	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	124.6 PK			2.47 H	235	82.6	42.0
2	*5700.00	113.9 AV			2.47 H	235	71.9	42.0
3	#5725.90	67.6 PK	68.2	-0.6	2.47 H	235	63.5	4.1
4	11400.00	60.5 PK	74.0	-13.5	2.21 H	217	52.1	8.4
5	11400.00	50.7 AV	54.0	-3.3	2.21 H	217	42.3	8.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	123.5 PK			1.19 V	197	81.5	42.0
2	*5700.00	112.8 AV			1.19 V	197	70.8	42.0
3	#5725.90	65.8 PK	68.2	-2.4	1.19 V	197	61.7	4.1
4	11400.00	60.2 PK	74.0	-13.8	2.56 V	221	51.8	8.4
5	11400.00	50.5 AV	54.0	-3.5	2.56 V	221	42.1	8.4

Remarks:

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