



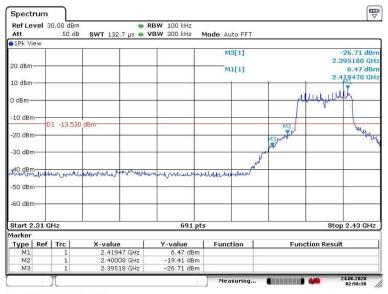


Report No: AAEMT/EMC/200623-02-02

Certificate#5593.01

#### 802.11n(HT20) mode with 72.2Mbps data rate (Worst case)

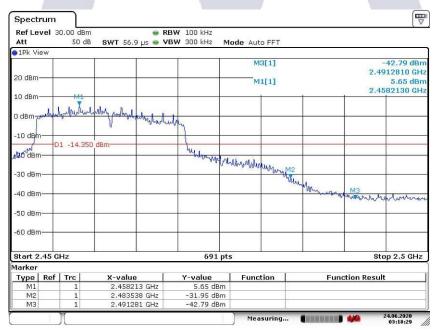
Channel1: 2.412 GHz



Dato: 24.JUN.2020 02:58:39

### 802.11n(HT20) mode with 72.2Mbps data rate (Worst case)

Channel11: 2.462 GHz



Date: 24.JUN.2020 03:18:28

Page 81 of 113















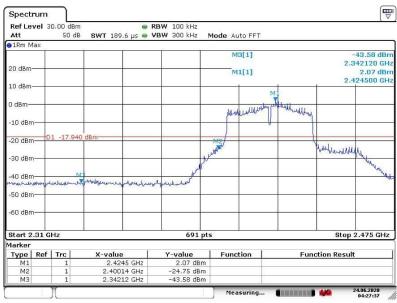


Report No: AAEMT/EMC/200623-02-02

## Certificate#5593.01

#### 802.11n(HT40) mode with 150Mbps data rate (Worst case)

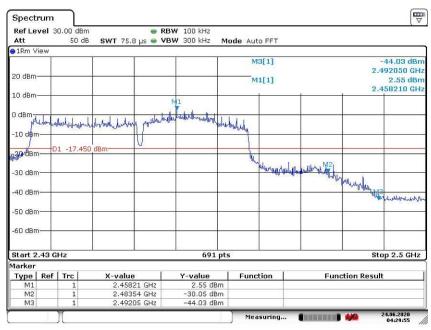
Channel 3: 2.422 GHz



Dato: 24.JUN.2020 04:27:37

#### 802.11n(HT40) mode with 150Mbps data rate (Worst case)

Channel 9: 2.452 GHz



Date: 24.JUN.2020 04:29:54

Page 82 of 113

















Report No: AAEMT/EMC/200623-02-02

Certificate#5593.01

#### **Conducted Spurious Emissions** 7.9

Test Requirement: FCC Part 15 C section 15.247

> (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Based on either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Method: ANSI C63.10: Clause 6.7

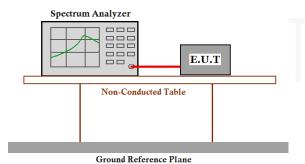
Pre-Scan has been conducted to determine the worst-case mode from all possible Test Status:

> 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.

Pre-test the EUT under 2 modes: power-supplied by using the AC adapter and power-supplied by using internal battery. After pre-testing, we found the worst case is the test mode of EUT power-supplied by using internal battery.

Test Configuration:



#### Test Procedure:

- Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter. 1.
- Set the spectrum analyzer: RBW=100 KHz, VBW = 300KHz. Sweep = auto; Detector Function = Peak. Trace = Max Hold, Scan up through 10th harmonic.
- 3. Measure the Conducted Spurious Emissions of the test frequency with special test status.
- 4 Repeat until all the test status is investigated.
- Report the worse case. 5.

Page 83 of 113

















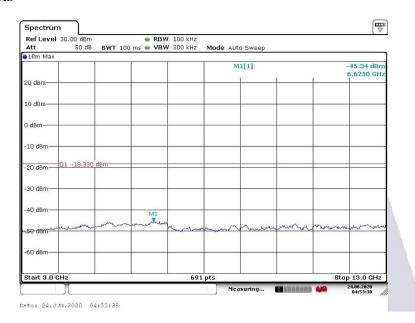
Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

#### **Result plot as follows:**

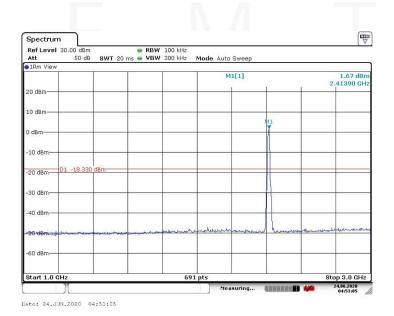
### 802.11b mode with 11Mbps data rate (Worst case)

Channel 1: 2.412GHz:

30 MHz to 1 GHz



1 G to 3 GHz



Page 84 of 113











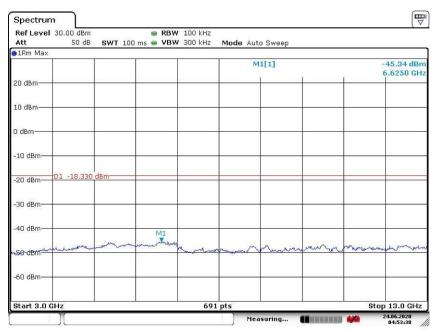






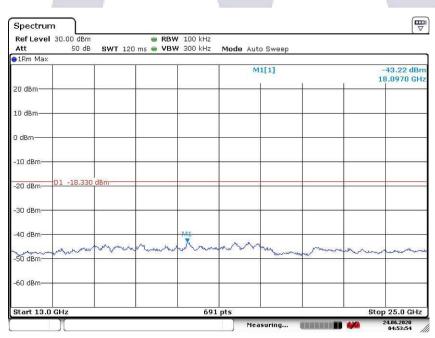
Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

#### 3 G to 13 GHz



Date: 24.JUN.2020 04:53:39

#### 13 G to 25 GHz



Date: 24.JUN.2020 04:53:54

Page 85 of 113













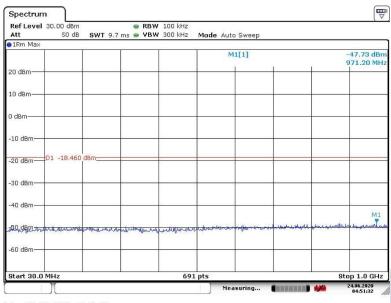




Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

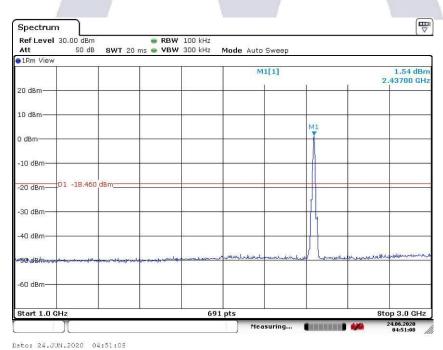
#### Channel 6: 2.437GHz:

#### 30 MHz to 1 GHz



Date: 24.JUN.2020 04:51:32

#### 1 G to 3 GHz













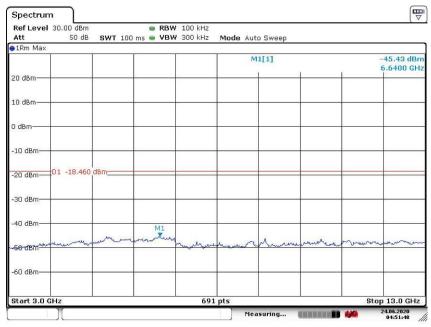






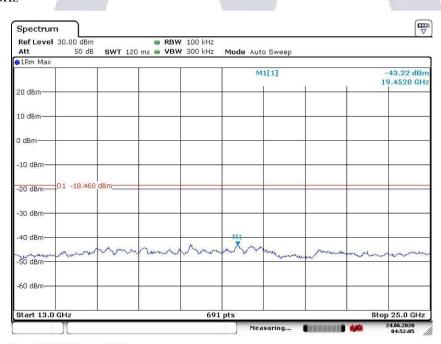
Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

#### 3 G to 13 GHz



Date: 24.JUN.2020 04:51:43

### 13 G to 25 GHz



Bate: 24.JUN.2020 04:52:05

Page 87 of 113















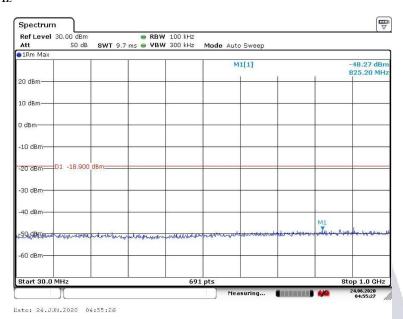


Certificate#5593.01

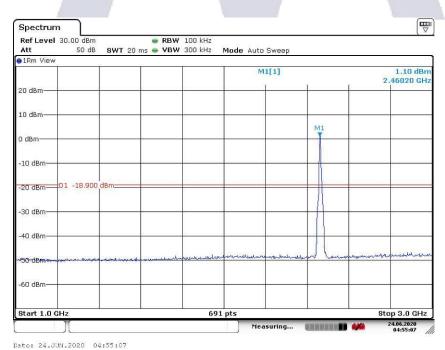
Report No: AAEMT/EMC/200623-02-02

Channel 11:2.462 GHz

30 MHz to 1 GHz



1 G to 3 GHz



Page 88 of 113











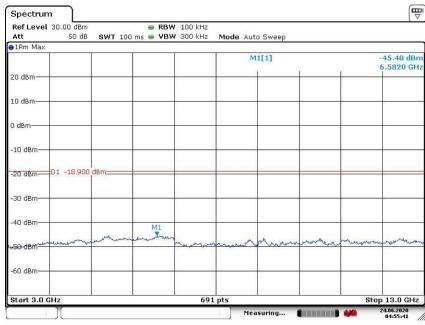






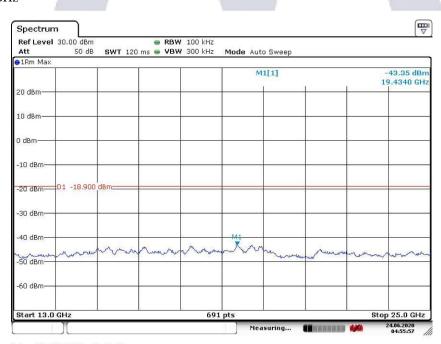
Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

#### 3 G to 13 GHz



Date: 24.JUN.2020 04:55:41

### 13 G to 25 GHz



Date: 24.JUN.2020 04:55:57

Page 89 of 113

















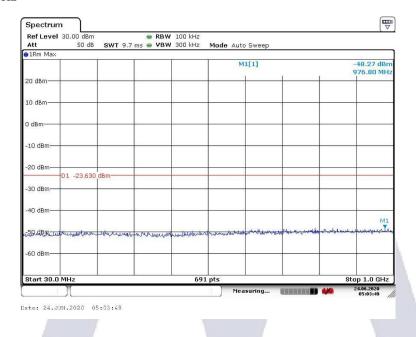
Report No: AAEMT/EMC/200623-02-02

Certificate#5593.01

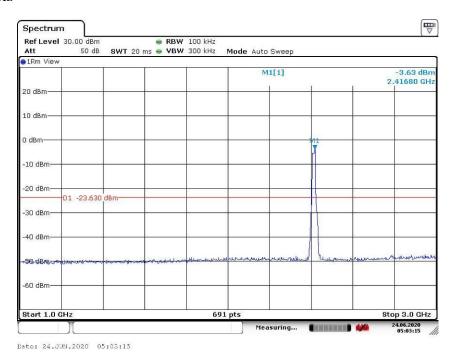
#### 802.11g mode with 54Mbps data rate (Worst case)

Channel 1: 2.412GHz:

30 MHz to 1 GHz



1 G to 3 GHz



Page 90 of 113











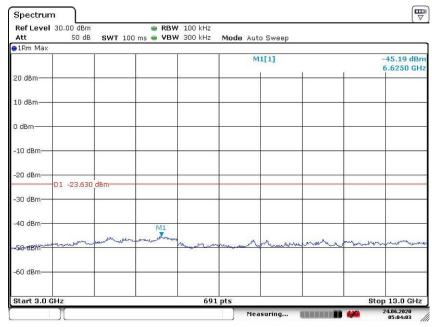






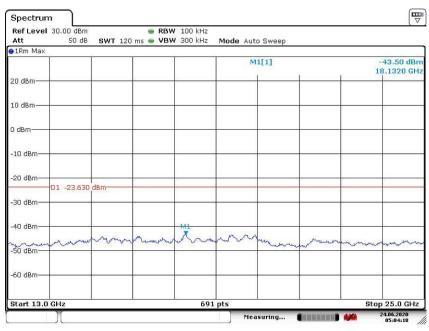
Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

3 G to 13 GHz



Date: 24.JUN.2020 05:04:03

#### 13 G to 25 GHz



Date: 24.JUN.2020 05:04:18

Page 91 of 113













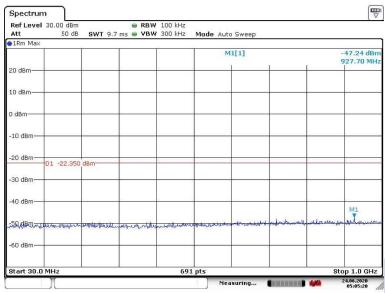




Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

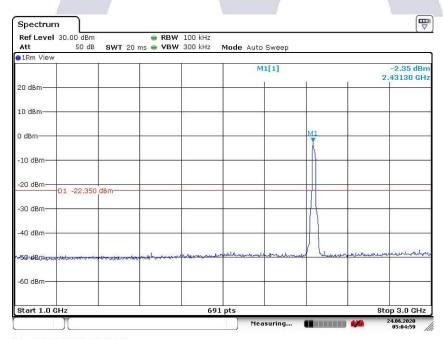
#### Channel 6: 2.437GHz:

#### 30 MHz to 1 GHz



Date: 24.JUN.2020 05:05:20

#### 1 G to 3 GHz



Date: 24.JUN.2020 05:04:59

Page 92 of 113











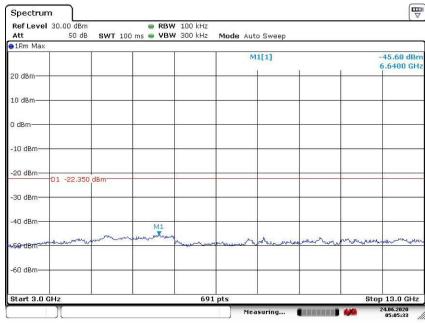






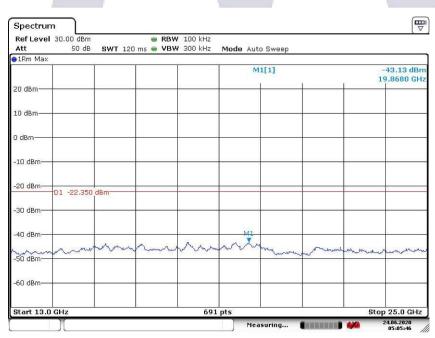
Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

#### 3 G to 13 GHz



Date: 24.JUN.2020 05:05:33

#### 13 G to 25 GHz



Date: 24.JUN.2020 05:05:45

Page 93 of 113















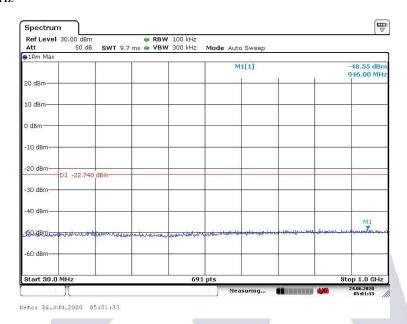


Report No: AAEMT/EMC/200623-02-02

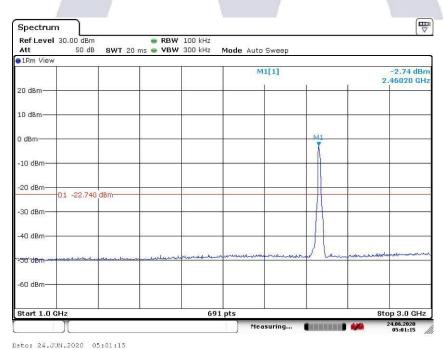
Certificate#5593.01

Channel 11:2.462 GHz

30 MHz to 1 GHz



1 G to 3 GHz



Page 94 of 113













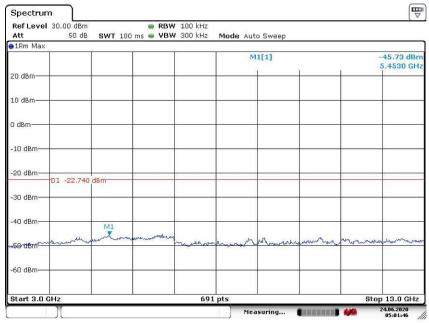




Certificate#5593.01

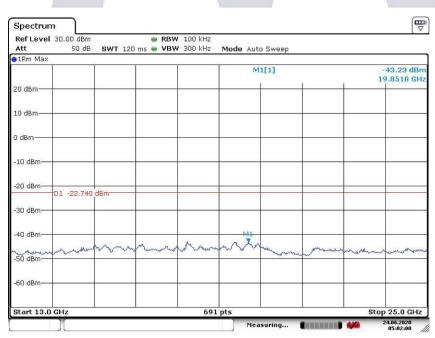
Report No: AAEMT/EMC/200623-02-02

### 3 G to 13 GHz



Date: 24.JUN.2020 05:01:46

### 13 G to 25 GHz



Date: 24.JUN.2020 05:02:00

Page 95 of 113

















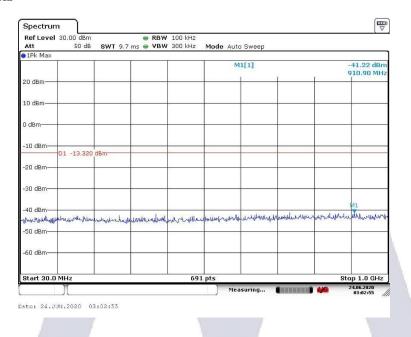
Report No: AAEMT/EMC/200623-02-02

Certificate#5593.01

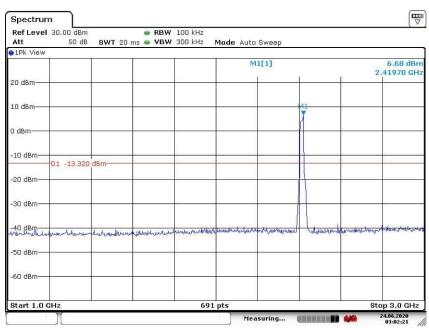
#### 802.11n(HT20) mode with 72.2Mbps data rate (Worst case)

Channel 1: 2.412GHz:

30 MHz to 1 GHz



1 G to 3 GHz



Date: 24.JUN.2020 03:02:21

Page 96 of 113











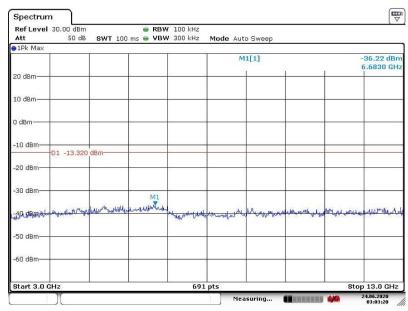






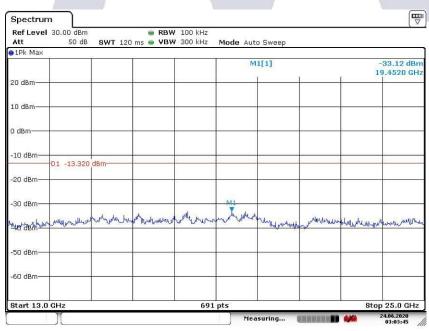
Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

#### 3 G to 13 GHz



Date: 24.JUN.2020 03:03:20

### 13 G to 25 GHz



Date: 24.JUN.2020 03:03:45















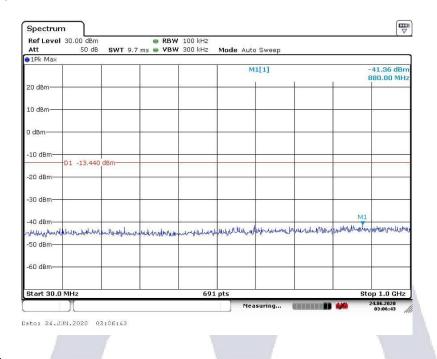


Certificate#5593.01

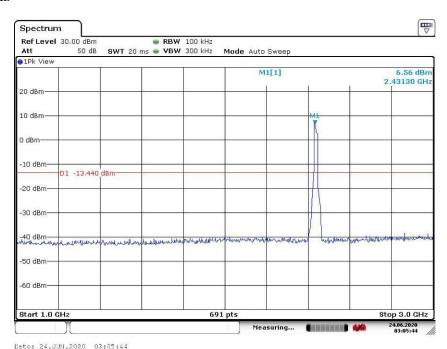
Report No: AAEMT/EMC/200623-02-02

Channel 6: 2.437GHz:

30 MHz to 1 GHz



1 G to 3 GHz



Page 98 of 113













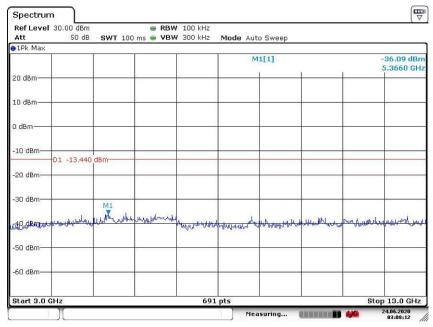




Report No: AAEMT/EMC/200623-02-02

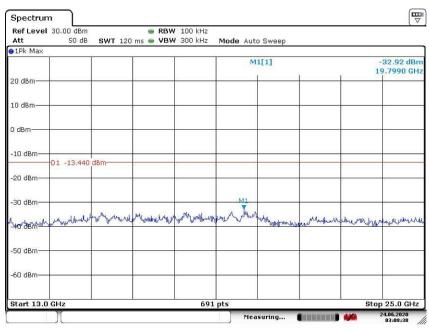
Certificate#5593.01

#### 3 G to 13 GHz



Date: 24.JUN.2020 03:08:12

### 13 G to 25 GHz



Date: 24.JUN.2020 03:08:39

Page 99 of 113















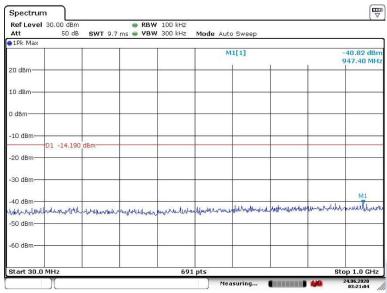


Report No: AAEMT/EMC/200623-02-02

Certificate#5593.01

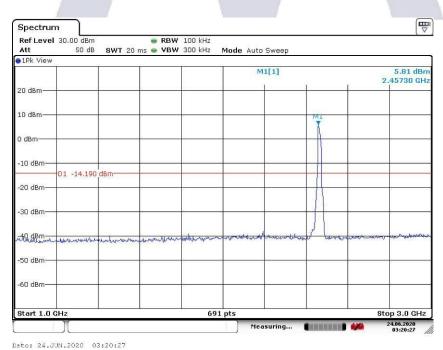
#### Channel 11:2.462 GHz

#### 30 MHz to 1 GHz



Date: 24.JUN.2020 03:21:04

#### 1 G to 3 GHz













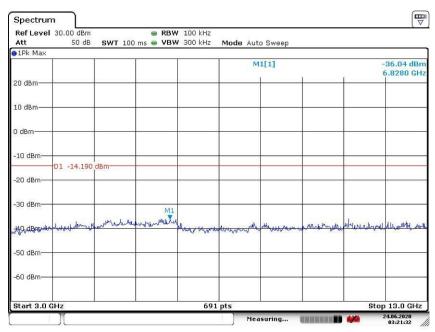






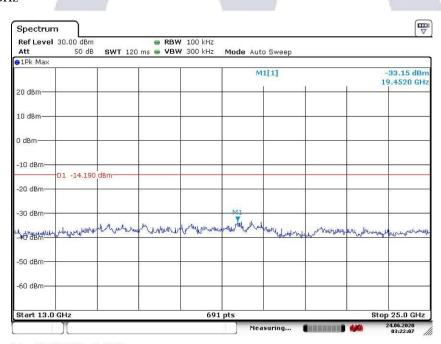
Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

#### 3 G to 13 GHz



Date: 24.JUN.2020 03:21:32

### 13 G to 25 GHz



Dato: 24.JUN.2020 03:22:07

Page 101 of 113

















Report No: AAEMT/EMC/200623-02-02

Certificate#5593.01

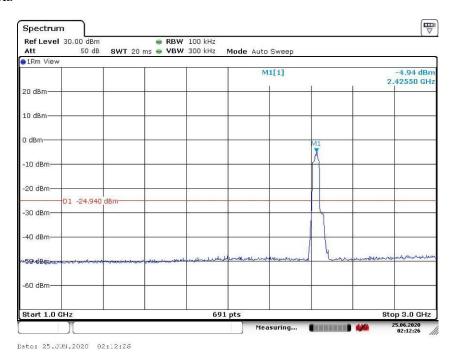
#### 802.11n(HT40) mode with 150Mbps data rate (Worst case)

Channel 3: 2.422GHz:

30 MHz to 1 GHz



1 G to 3 GHz



Page 102 of 113











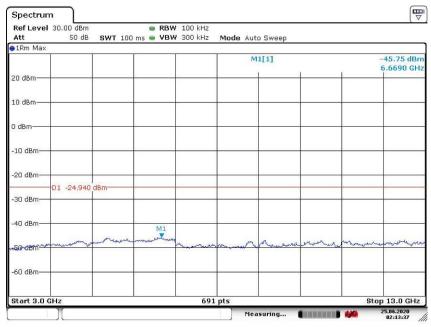






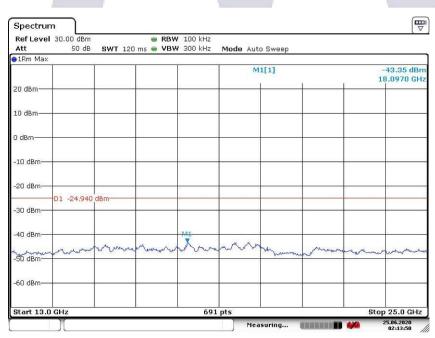
Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

#### 3 G to 13 GHz



Date: 25.JUN.2020 02:13:37

### 13 G to 25 GHz



Date: 25.JUN.2020 02:13:50

Page 103 of 113















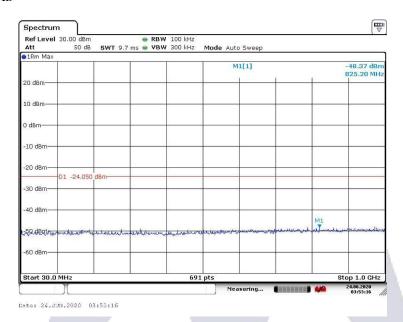


Report No: AAEMT/EMC/200623-02-02

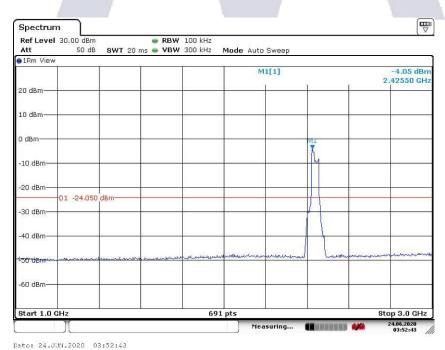
Certificate#5593.01

Channel 6: 2.437GHz:

30 MHz to 1 GHz



1 G to 3 GHz



Page 104 of 113











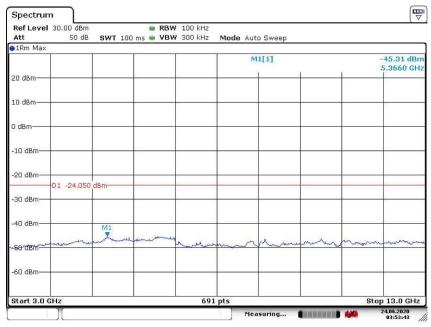






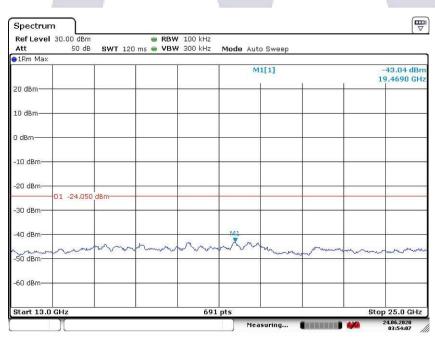
Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

#### 3 G to 13 GHz



Date: 24.JUN.2020 03:53:43

### 13 G to 25 GHz



Date: 24.JUN.2020 03:54:07

Page 105 of 113















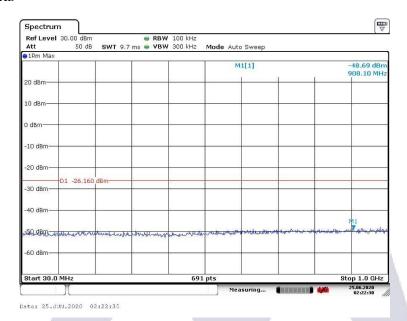


Report No: AAEMT/EMC/200623-02-02

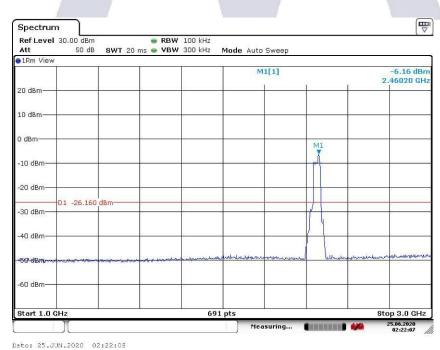
Certificate#5593.01

#### Channel 9:2.452 GHz

#### 30 MHz to 1 GHz



#### 1 G to 3 GHz



Page 106 of 113











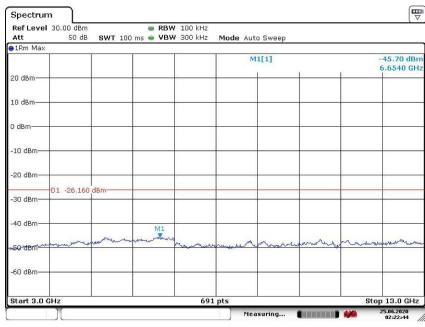






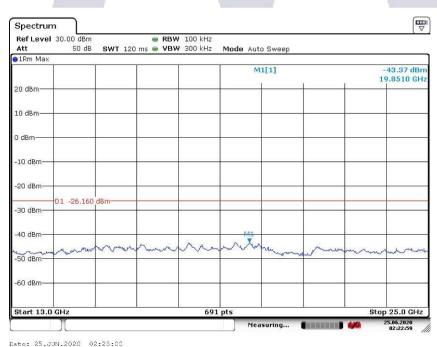
Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

3 G to 13 GHz



Date: 25.JUN.2020 02:22:45

#### 1 3 G to 25 GHz



















Report No: AAEMT/EMC/200623-02-02

Certificate#5593.01

# 8 Photographs

## 8.1 Radiated Spurious Emission Test Setup

Below 1GHz:



Above 1GHz:



Page 108 of 113

















Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

# 8.2 Conducted Emission Test Setup





















Report No: AAEMT/EMC/200623-02-02

#### Certificate#5593.01

# 9 Appendix

## 9.1 EUT Photographs

## **9.1.1** Main Model (D-210)



## **9.1.2** Serial Model 1 (D-210A)



Page 110 of 113

 $Plot 174, \quad Udyog \ Vihar \ Phase \ 4, Sector \ -18, Gurgoan, Haryana, India. \\ Contact: 0124-4235350, 4145343; e-mail: \underline{info@aaemtlabs.com}; Website: \underline{www.aaemtlabs.com}$  An  $ISO \ 17025: 2017, Accredited \ Laboratory, VCCI \ (support \ member \ -\#4053), ISED\#: 26046, FCC \ \#137777 \quad CE \quad \#800058\_00$ 

















Report No: AAEMT/EMC/200623-02-02

Certificate#5593.01

## **9.1.3** Serial Model 2 (D-211)



## 9.2 Accessories Photographs

## 9.2.1 CAN Adapter AD01





Back



Page 111 of 113

















Report No: AAEMT/EMC/200623-02-02

Certificate#5593.01

## 9.2.2 CAN Adapter AD02





**Back** 



## 9.2.3 CAN Adapter AD03

Front



Back



Page 112 of 113

















Report No: AAEMT/EMC/200623-02-02 Certificate#5593.01

### 9.2.4 LTE Modules

#### **Front**



### LTE Module





\*\*End of Report\*\*

Page 113 of 113









