

# TEST REPORT

**Product Name** : WiFi/BT Module  
**Brand Mark** : FN-LINK  
**Model No.** : 6222C-PUC  
**FCC ID** : 2AATL-6222C-PUC  
**Report Number** : BLA-EMC-202106-A6604  
**Date of Sample Receipt** : 2021/6/23  
**Date of Test** : 2021/6/23 to 2021/8/2  
**Date of Issue** : 2021/8/2  
**Test Standard** : 47 CFR Part 15, Subpart E 15.407  
**Test Result** : Pass

Prepared for:

**HUNAN FN-LINK TECHNOLOGY LIMITED**

**No.8, Litong Road, Liuyang Economic & Technical Development Zone,  
Changsha, Hunan, CHINA**

Prepared by:

**BlueAsia of Technical Services(Shenzhen) Co.,Ltd.**

**Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District,  
Shenzhen, Guangdong Province, China**

**TEL: +86-755-23059481**

Compiled by:

*Jozu.*

Review by:

*Sueels*

Approved by:

*Bluezhong*

Date:

2021/8/2



**REPORT REVISE RECORD**

Version No.	Date	Description
00	2021/8/2	Original

BlueAsia

## TABLE OF CONTENTS

<b>1</b>	<b>TEST SUMMARY .....</b>	<b>6</b>
<b>2</b>	<b>GENERAL INFORMATION .....</b>	<b>7</b>
<b>3</b>	<b>GENERAL DESCRIPTION OF E.U.T. ....</b>	<b>7</b>
<b>4</b>	<b>BLOCK DIAGRAM OF EUT CONNECTION .....</b>	<b>8</b>
<b>5</b>	<b>TEST ENVIRONMENT .....</b>	<b>8</b>
<b>6</b>	<b>TEST MODE .....</b>	<b>8</b>
<b>7</b>	<b>MEASUREMENT UNCERTAINTY .....</b>	<b>8</b>
<b>8</b>	<b>DESCRIPTION OF SUPPORT UNIT.....</b>	<b>9</b>
<b>9</b>	<b>LABORATORY LOCATION.....</b>	<b>9</b>
<b>10</b>	<b>TEST INSTRUMENTS LIST .....</b>	<b>10</b>
<b>11</b>	<b>FREQUENCY STABILITY .....</b>	<b>15</b>
11.1	LIMITS .....	15
11.2	BLOCK DIAGRAM OF TEST SETUP .....	15
11.3	TEST DATA.....	15
<b>12</b>	<b>RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS.....</b>	<b>16</b>
12.1	LIMITS .....	16
12.2	BLOCK DIAGRAM OF TEST SETUP .....	17
12.3	PROCEDURE .....	17
12.4	TEST DATA.....	19
<b>13</b>	<b>RADIATED EMISSIONS.....</b>	<b>35</b>
13.1	BLOCK DIAGRAM OF TEST SETUP .....	35
13.2	PROCEDURE .....	35
13.3	TEST DATA.....	37
<b>14</b>	<b>DFS: CHANNEL CLOSING TRANSMISSION TIME .....</b>	<b>63</b>
14.1	LIMITS .....	63
14.2	BLOCK DIAGRAM OF TEST SETUP .....	63
14.3	PROCEDURE .....	63
14.4	TEST DATA.....	65
<b>15</b>	<b>DFS: NON-OCCUPANCY PERIOD.....</b>	<b>66</b>

15.1	LIMITS .....	66
15.2	BLOCK DIAGRAM OF TEST SETUP .....	66
15.3	PROCEDURE .....	66
15.4	TEST DATA.....	68
<b>16</b>	<b>PEAK POWER SPECTRUM DENSITY .....</b>	<b>69</b>
16.1	LIMITS .....	69
16.2	BLOCK DIAGRAM OF TEST SETUP .....	69
16.3	TEST DATA.....	70
<b>17</b>	<b>TRANSMITTER POWER CONTROL.....</b>	<b>71</b>
17.1	CONCLUSION .....	71
<b>18</b>	<b>MAXIMUM CONDUCTED OUTPUT POWER.....</b>	<b>72</b>
18.1	LIMITS .....	72
18.2	BLOCK DIAGRAM OF TEST SETUP .....	72
18.3	TEST DATA.....	73
<b>19</b>	<b>MINIMUM 6 DB BANDWIDTH (5.725-5.85 GHZ BAND ).....</b>	<b>74</b>
19.1	LIMITS .....	74
19.2	BLOCK DIAGRAM OF TEST SETUP .....	74
19.3	TEST DATA.....	74
<b>20</b>	<b>26DB EMISSION BANDWIDTH.....</b>	<b>75</b>
20.1	BLOCK DIAGRAM OF TEST SETUP .....	75
20.2	TEST DATA.....	75
<b>21</b>	<b>99% BANDWIDTH.....</b>	<b>76</b>
21.1	BLOCK DIAGRAM OF TEST SETUP .....	76
21.2	TEST DATA.....	76
<b>22</b>	<b>DUTY CYCLE .....</b>	<b>77</b>
22.1	BLOCK DIAGRAM OF TEST SETUP .....	77
22.2	TEST DATA.....	77
<b>23</b>	<b>CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ).....</b>	<b>78</b>
23.1	LIMITS .....	78
23.2	BLOCK DIAGRAM OF TEST SETUP .....	78
23.3	PROCEDURE .....	78
23.4	TEST DATA.....	80

<b>24</b>	<b>ANTENNA REQUIREMENT .....</b>	<b>82</b>
24.1	CONCLUSION .....	82
<b>25</b>	<b>APPENDIX.....</b>	<b>83</b>
25.1	DUTY CYCLE.....	83
25.2	MAXIMUM CONDUCTED OUTPUT POWER .....	115
25.3	-26dB BANDWIDTH .....	179
25.4	OCCUPIED CHANNEL BANDWIDTH.....	227
25.5	MAXIMUM POWER SPECTRAL DENSITY LEVEL .....	290
25.6	BAND EDGE .....	354
25.7	FREQUENCY STABILITY.....	401
25.8	CONDUCTED RF SPURIOUS EMISSION .....	433
25.9	-6dB BANDWIDTH .....	496
	<b>APPENDIX A: PHOTOGRAPHS OF TEST SETUP .....</b>	<b>511</b>
	<b>APPENDIX B: PHOTOGRAPHS OF EUT .....</b>	<b>513</b>

BlueAsia

## 1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
Frequency Stability	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
DFS: Channel Closing Transmission Time	47 CFR Part 15, Subpart E 15.407	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
DFS: Non-occupancy period	47 CFR Part 15, Subpart E 15.407	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Transmitter Power Control	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (h)(1)	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band )	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 1	47 CFR Part 15, Subpart C 15.407 (a)	Pass
99% Bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 II D	N/A	Pass
Duty Cycle	47 CFR Part 15, Subpart E 15.407	KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	Pass
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass

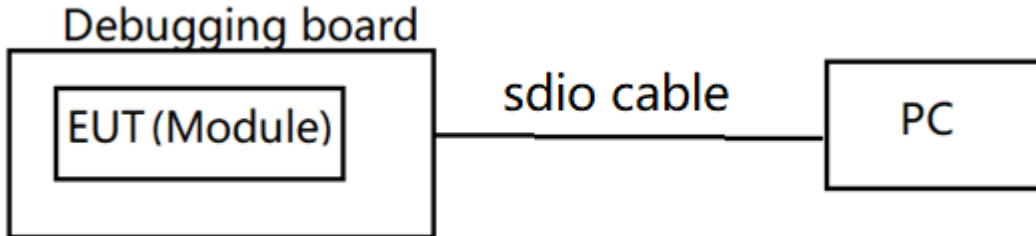
## 2 GENERAL INFORMATION

<b>Applicant</b>	HUNAN FN-LINK TECHNOLOGY LIMITED
<b>Address</b>	No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA
<b>Manufacturer</b>	HUNAN FN-LINK TECHNOLOGY LIMITED
<b>Address</b>	No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA
<b>Factory</b>	HUNAN FN-LINK TECHNOLOGY LIMITED
<b>Address</b>	No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA
<b>Product Name</b>	WiFi/BT Module
<b>Test Model No.</b>	6222C-PUC

## 3 GENERAL DESCRIPTION OF E.U.T.

<b>Hardware Version</b>	V2.0
<b>Software Version</b>	V2.0
<b>Operation Frequency:</b>	Band 1 : 5180MHz-5240MHz; Band 2:5260MHz~5320MHz Band 3: 5500MHz~5700MHz; Band 4 : 5745MHz-5825MHz
<b>Channel numbers:</b>	Band 1: 802.11a/802.11n(HT20)/802.11ac(HT20): 4, 802.11n(HT40)/802.11ac(HT40):2, 802.11ac(HT80): 1 Band 2: 802.11a/802.11n(HT20)/802.11ac(HT20): 4, 802.11n(HT40)/802.11ac(HT40):2, 802.11ac(HT80): 1 Band 3: 802.11a/802.11n(HT20)/802.11ac(HT20): 11, 802.11n(HT40)/802.11ac(HT40):5, 802.11ac(HT80): 3 Band 4: 802.11a/802.11(HT20)/802.11ac(HT20): 5, 802.11n(HT40)/802.11ac(HT40): 2, 802.11ac(HT80): 1
<b>Channel separation:</b>	802.11a/n/ac(HT20): 20MHz, 802.11n/ac(HT40): 40MHz, 802.11ac(HT80): 80MHz
<b>Modulation technology: (IEEE 802.11a/n/ac)</b>	BPSK, QPSK, 16-QAM, 64-QAM, 256QAM
<b>Data speed(IEEE 802.11a)</b>	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
<b>Data speed (IEEE 802.11n/ac):</b>	Up to 866.7Mbps
<b>Antenna Type:</b>	FPC antenna
<b>Antenna gain:</b>	Antenna 1:2.35dBi, Antenna 2:2.35dBi
<b>Note:</b>	Antenna number : 2 SISO mode: 802.11a MIMO mode: 802.11n(HT20)/ 802.11n(HT40)/ 802.11ac(HT20)/ 802.11ac(HT40)/ 802.11ac(HT80) Directional gain of MIMO mode:2+10log2=5.01dBi
Remark:The Antenna Gain is supplied by the customer.BlueAsia is not responsible for this data	

#### 4 BLOCK DIAGRAM OF EUT CONNECTION



#### 5 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25°C	DC3.3V

#### 6 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
Transmitting mode	Keep the EUT in continuously transmitting mode with modulation.
Remark: Only the data of the worst mode would be recorded in this report.	

#### 7 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB



## 8 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	Lenovo	N/A	N/A	N/A

## 9 LABORATORY LOCATION

All tests were performed at:  
BlueAsia of Technical Services(Shenzhen) Co., Ltd.  
Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District, Shenzhen, Guangdong Province,  
China  
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673  
No tests were sub-contracted.

## 10 TEST INSTRUMENTS LIST

Test Equipment Of Frequency Stability					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	2020/11/10	2023/11/9
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Receiver	R&S	ESR7	101199	2020/10/12	2021/10/11
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25
Amplifier	SKET	PA-000318G-45	N/A	2020/10/16	2021/10/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2020/9/26	2022/9/25
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

Test Equipment Of Radiated Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due

Chamber	SKET	966	N/A	2020/11/10	2023/11/9
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Receiver	R&S	ESR7	101199	2020/10/12	2021/10/11
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25
Amplifier	SKET	PA-000318G-45	N/A	2020/10/16	2021/10/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2020/9/26	2022/9/25
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

**Test Equipment Of DFS: Channel Closing Transmission Time**

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

**Test Equipment Of DFS: Non-occupancy period**

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11

Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

**Test Equipment Of Peak Power spectrum density**

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

**Test Equipment Of Transmitter Power Control**

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

**Test Equipment Of Maximum Conducted output power**

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

**Test Equipment Of Minimum 6 dB bandwidth (5.725-5.85 GHz band )**

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

**Test Equipment Of 26dB Emission bandwidth**

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

**Test Equipment Of 99% Bandwidth**

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

**Test Equipment Of Duty Cycle**

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11

Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

<b>Test Equipment Of Conducted Emissions at AC Power Line (150kHz-30MHz)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model</b>	<b>S/N</b>	<b>Cal.Date</b>	<b>Cal.Due</b>
Shield room	SKET	833	N/A	2020/11/25	2023/11/24
Receiver	R&S	ESPI3	101082	2020/10/12	2021/10/11
LISN	R&S	ENV216	3560.6550.15	2020/10/12	2021/10/11
LISN	AT	AT166-2	AKK1806000003	2020/10/12	2021/10/11
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A

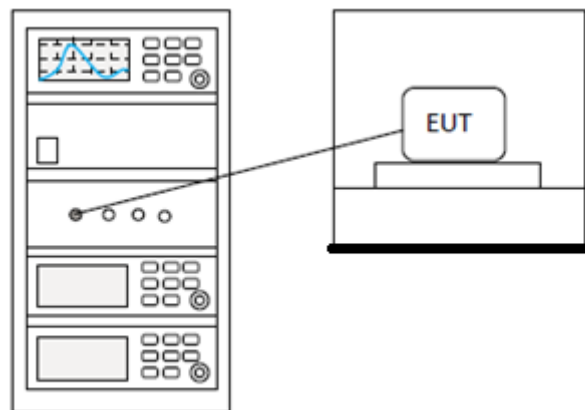
## 11 FREQUENCY STABILITY

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	ANSI C63.10 (2013) Section 6.8
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

### 11.1 LIMITS

<b>Limit:</b>	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
---------------	---

### 11.2 BLOCK DIAGRAM OF TEST SETUP



### 11.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

## 12 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

<b>Test Standard</b>	47 CFR Part 15, Subpart E 15.407
<b>Test Method</b>	KDB 789033 D02 II G
<b>Test Mode (Pre-Scan)</b>	TX
<b>Test Mode (Final Test)</b>	TX
<b>Tester</b>	Jozu
<b>Temperature</b>	25°C
<b>Humidity</b>	60%

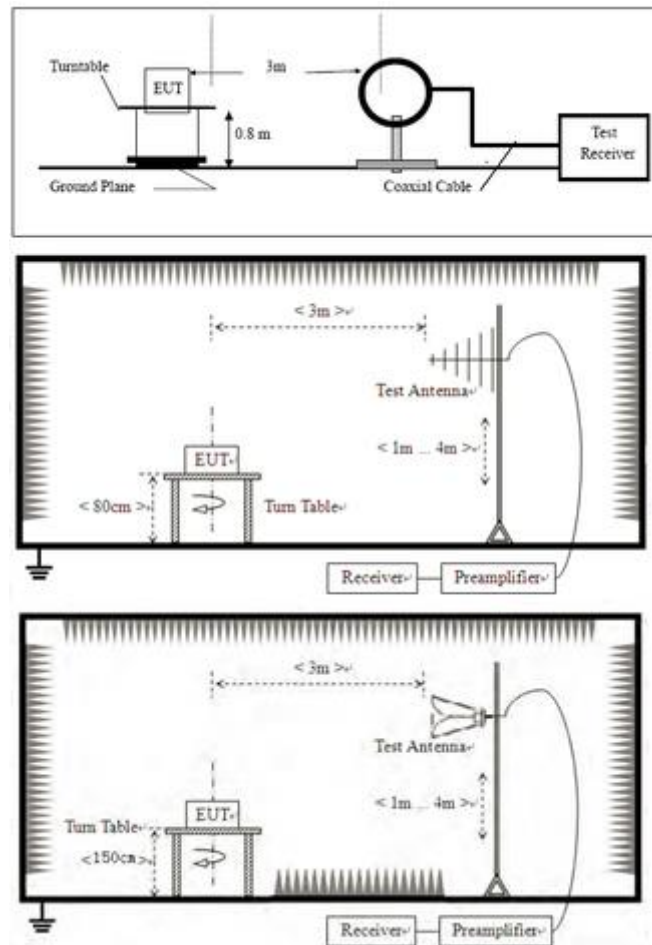
### 12.1 LIMITS

<b>Frequency(MHz)</b>	<b>Field strength(microvolts/meter)</b>	<b>Measurement distance(meters)</b>
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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



## 12.2 BLOCK DIAGRAM OF TEST SETUP



## 12.3 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

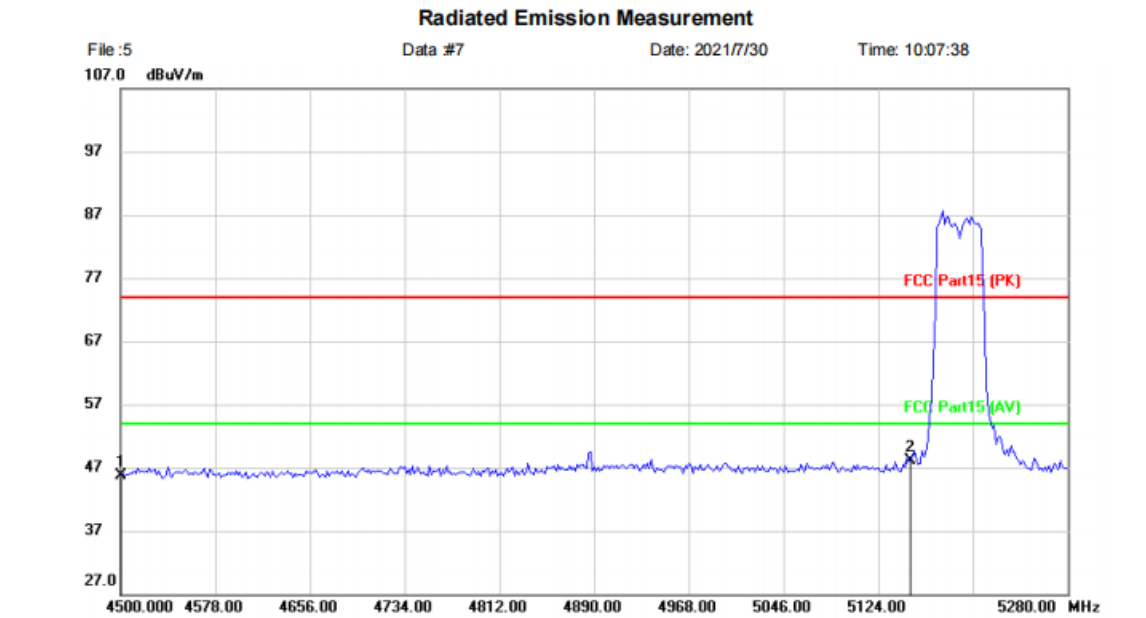
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
  - i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
  - j. Repeat above procedures until all frequencies measured was complete.
- Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

BlueAsia

### 12.4 TEST DATA

Remark: During the test, pre-scan the 802.11a/n/ac mode, and found the 802.11N40 mode which it is worse case.

[TestMode: TX band 1 N40 5190 channel]; [Polarity: Horizontal]



Site: \_\_\_\_\_ Polarization: **Horizontal** Temperature: \_\_\_\_\_  
 Limit: FCC Part15 (PK) Power: \_\_\_\_\_ Humidity: %  
 EUT: WIFI/BT Module Distance: \_\_\_\_\_  
 M/N: 6222C-PUC  
 Mode: Band1-N40-TX-L  
 Note:

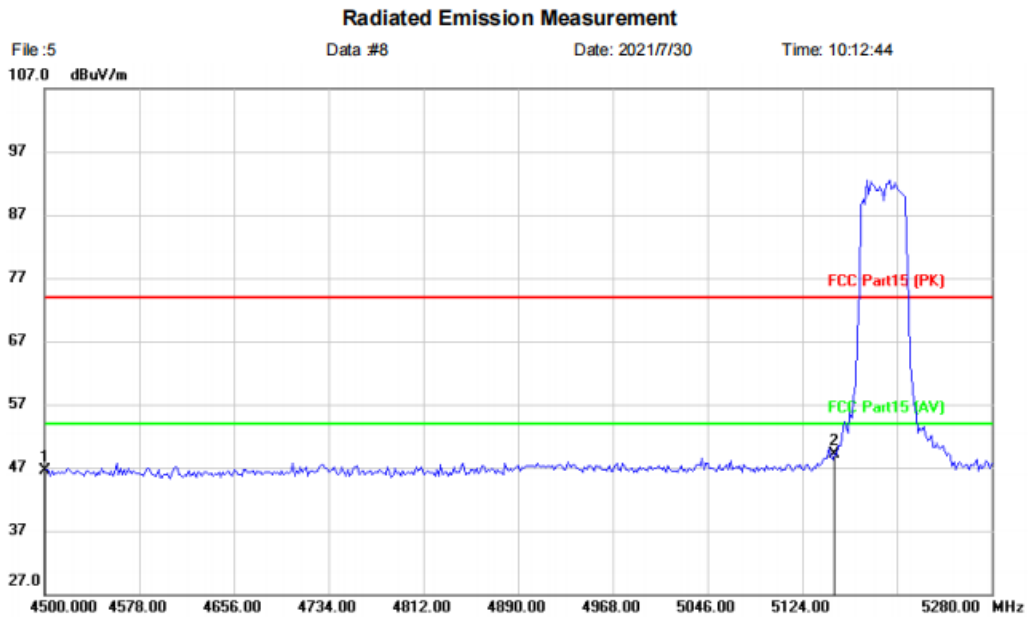
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4500.000	47.04	-1.31	45.73	74.00	-28.27	peak		
2	*	5150.000	47.81	0.25	48.06	74.00	-25.94	peak		

\*:Maximum data x:Over limit !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX band 1 N40 5190 channel]; [Polarity: Vertical]



Site	Polarization: <b>Vertical</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band1-N40-TX-L		
Note:		

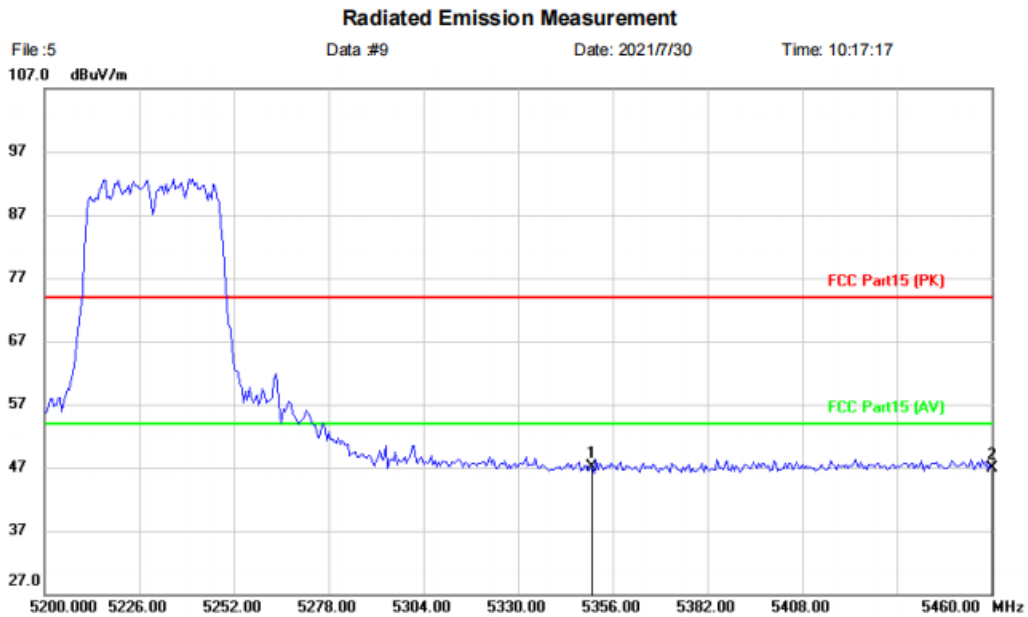
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4500.000	47.83	-1.31	46.52	74.00	-27.48	peak		
2	*	5150.000	48.94	0.25	49.19	74.00	-24.81	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX band1 N40 5320 channel]; [Polarity: Horizontal]



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band1-N40-TX-H		
Note:		

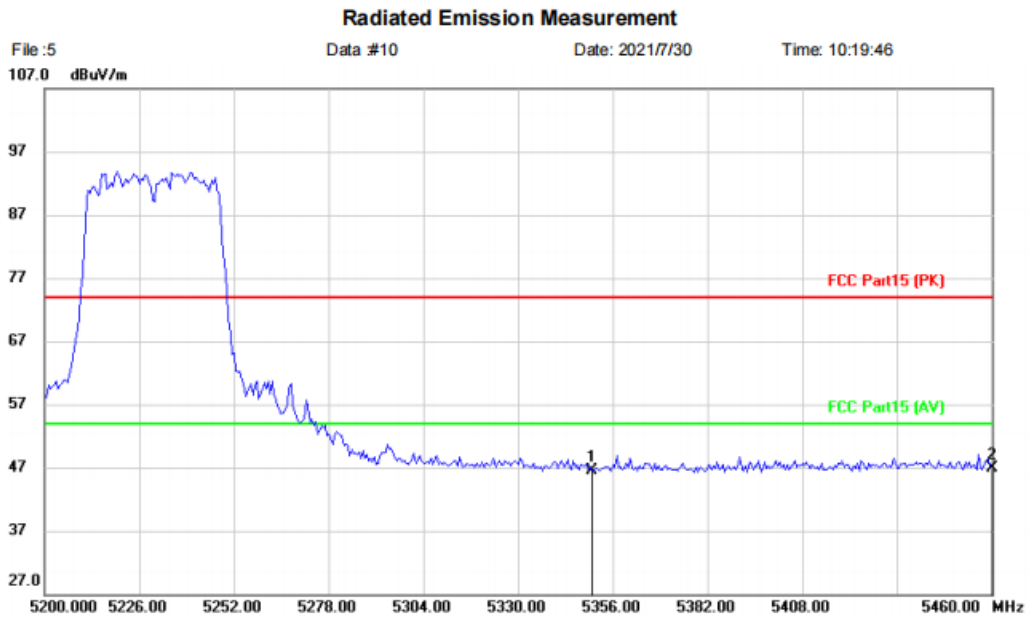
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5350.000	46.15	0.95	47.10	74.00	-26.90	peak		
2		5460.000	46.03	0.87	46.90	74.00	-27.10	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX band1 N40 5230 channel]; [Polarity: Vertical]



Site	Polarization: <b>Vertical</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band1-N40-TX-H		
Note:		

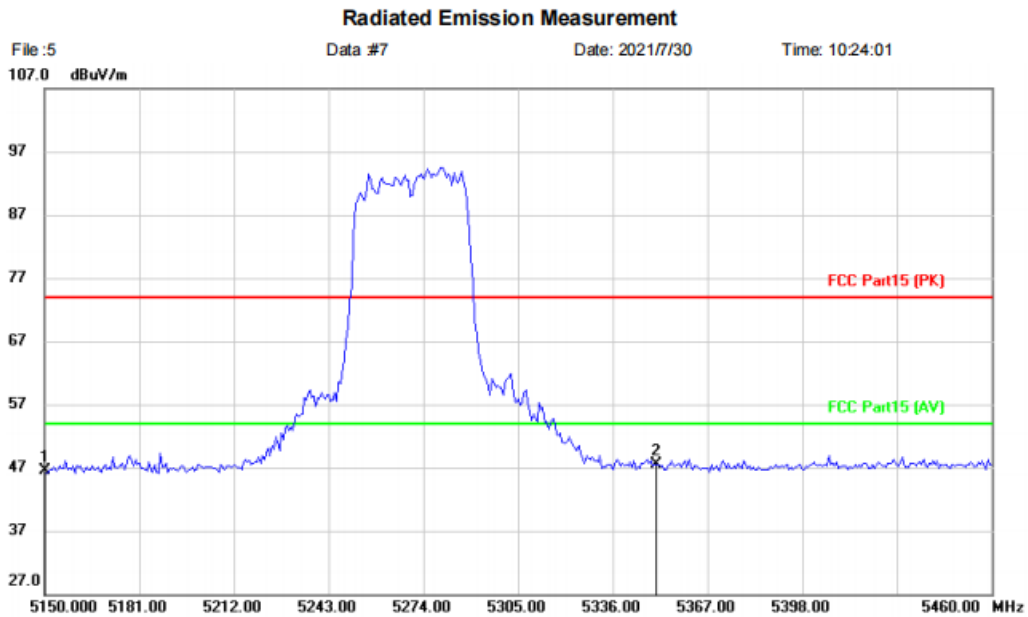
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5350.000	45.62	0.95	46.57	74.00	-27.43	peak		
2	*	5460.000	46.09	0.87	46.96	74.00	-27.04	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX band2 N40 5270 channel]; [Polarity: Horizontal]



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band2-N40-TX-L		
Note:		

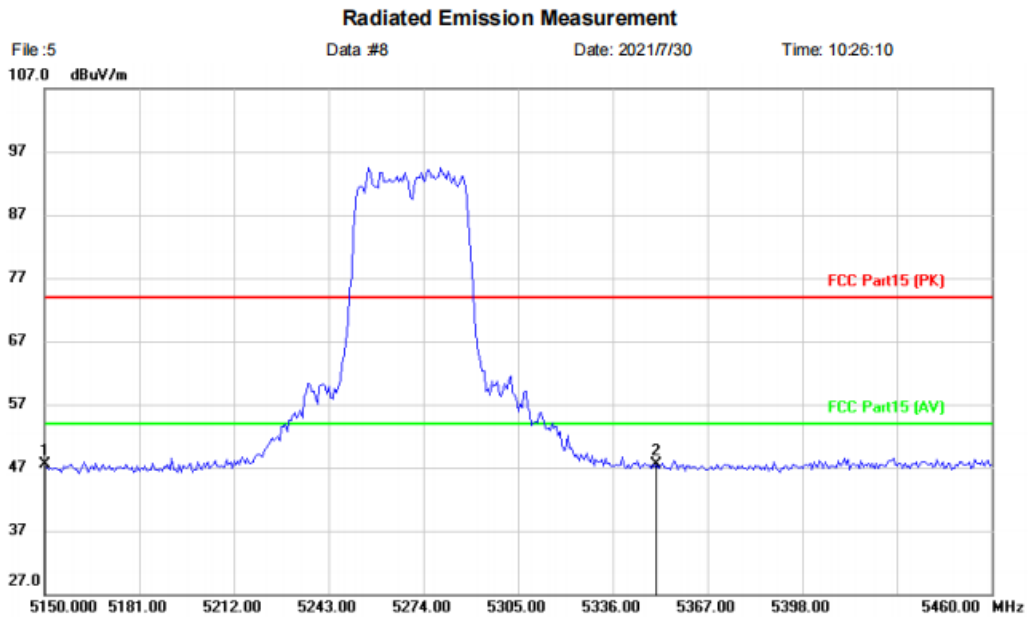
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		5150.000	46.34	0.25	46.59	74.00	-27.41	peak	
2	*	5350.000	46.60	0.95	47.55	74.00	-26.45	peak	

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX band2 N40 5270 channel]; [Polarity: Vertical]



Site	Polarization: <b>Vertical</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band2-N40-TX-L		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5150.000	47.24	0.25	47.49	74.00	-26.51	peak		
2		5350.000	46.47	0.95	47.42	74.00	-26.58	peak		

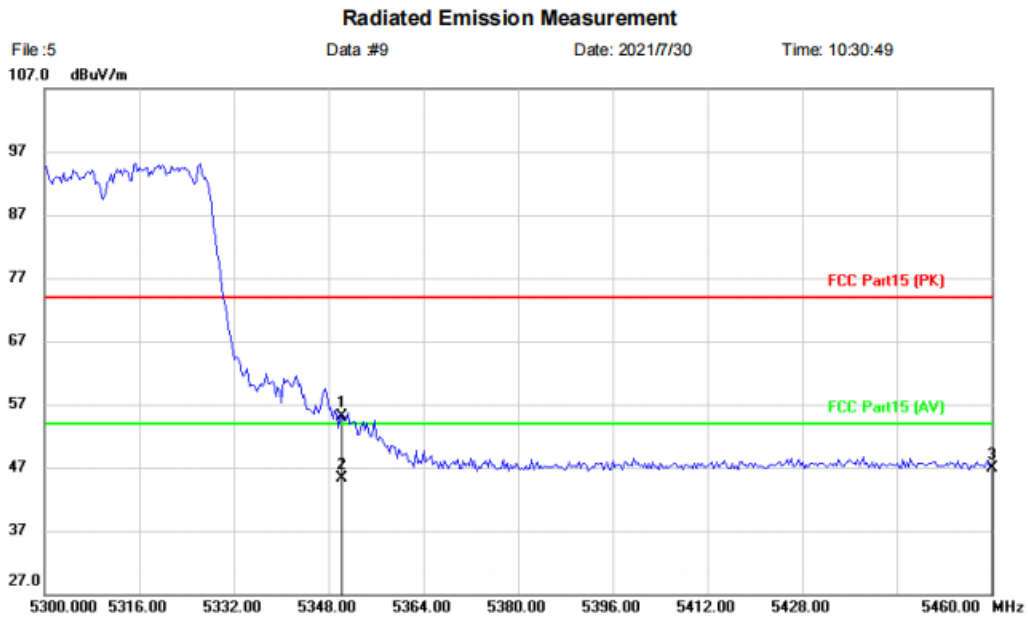
\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**



[TestMode: TX band2 N40 5310 channel]; [Polarity: Horizontal]



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band2-N40-TX-H		
Note:		

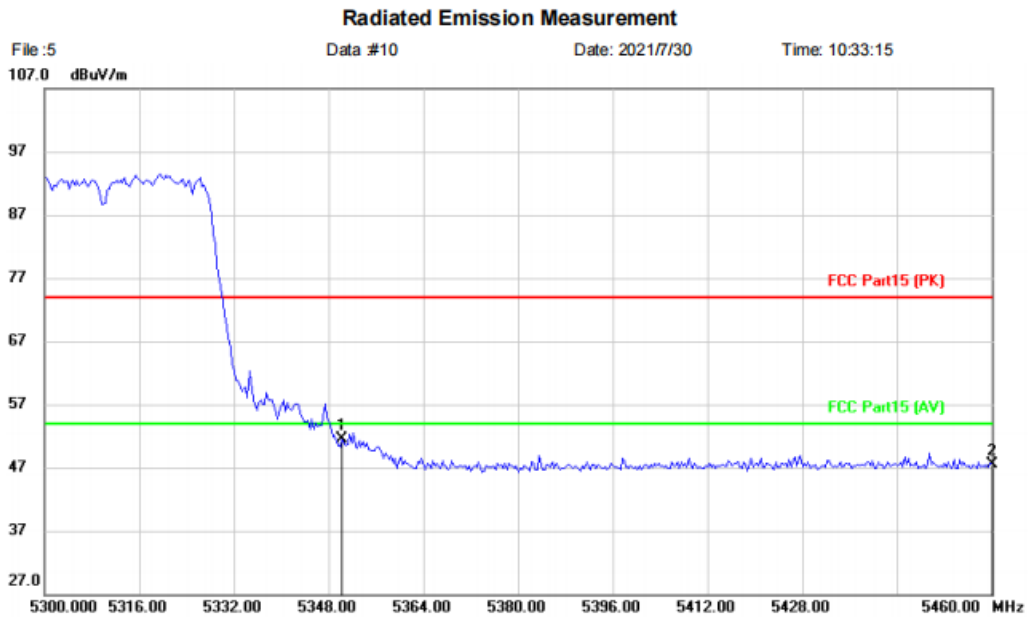
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5350.000	54.07	0.95	55.02	74.00	-18.98	peak		
2	*	5350.000	44.41	0.95	45.36	54.00	-8.64	AVG		
3		5460.000	46.01	0.87	46.88	74.00	-27.12	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX band2 N40 5310 channel]; [Polarity: Vertical]



Site	Polarization: <b>Vertical</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band2-N40-TX-H		
Note:		

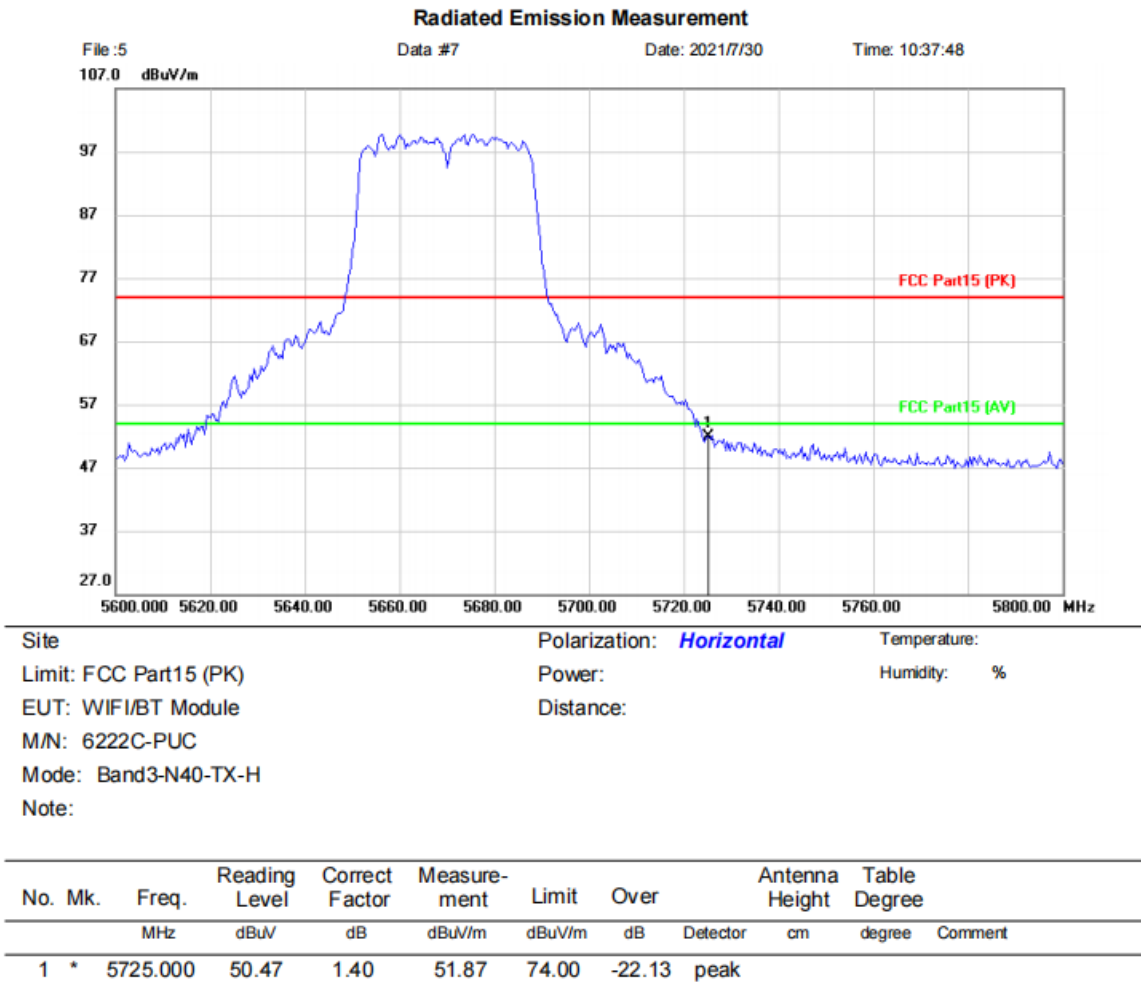
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5350.000	50.52	0.95	51.47	74.00	-22.53	peak		
2		5460.000	46.59	0.87	47.46	74.00	-26.54	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX band3 N40 5670 channel]; [Polarity: Horizontal]

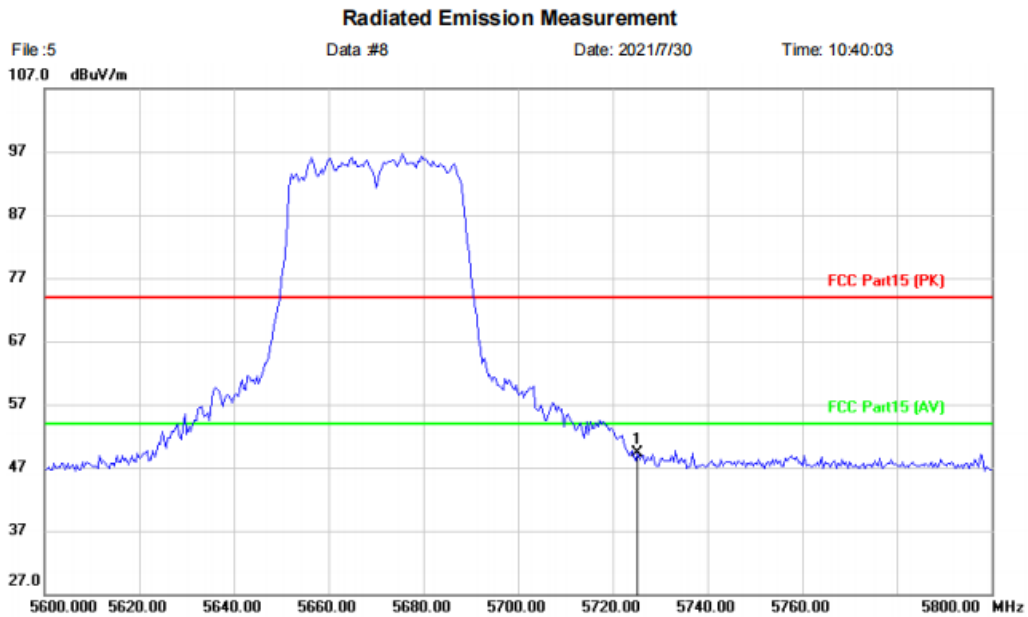


\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX band3 N40 5670 channel]; [Polarity: Vertical]



Site	Polarization: <b>Vertical</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band3-N40-TX-H		
Note:		

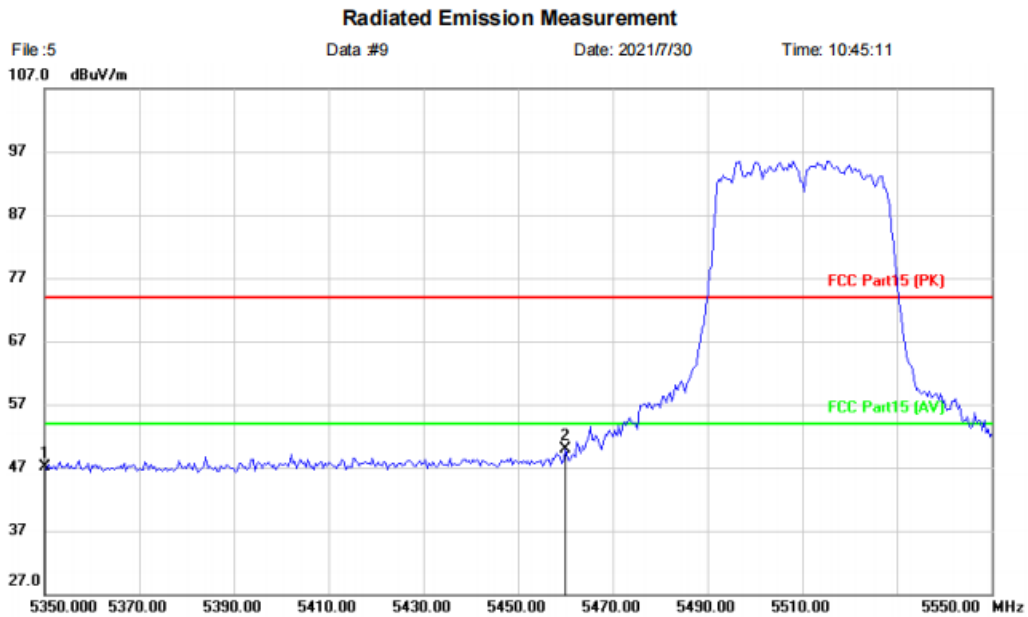
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	5725.000	47.82	1.40	49.22	74.00	-24.78	peak	

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX band3 N40 5510 channel]; [Polarity: Horizontal]



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band3-N40-TX-L		
Note:		

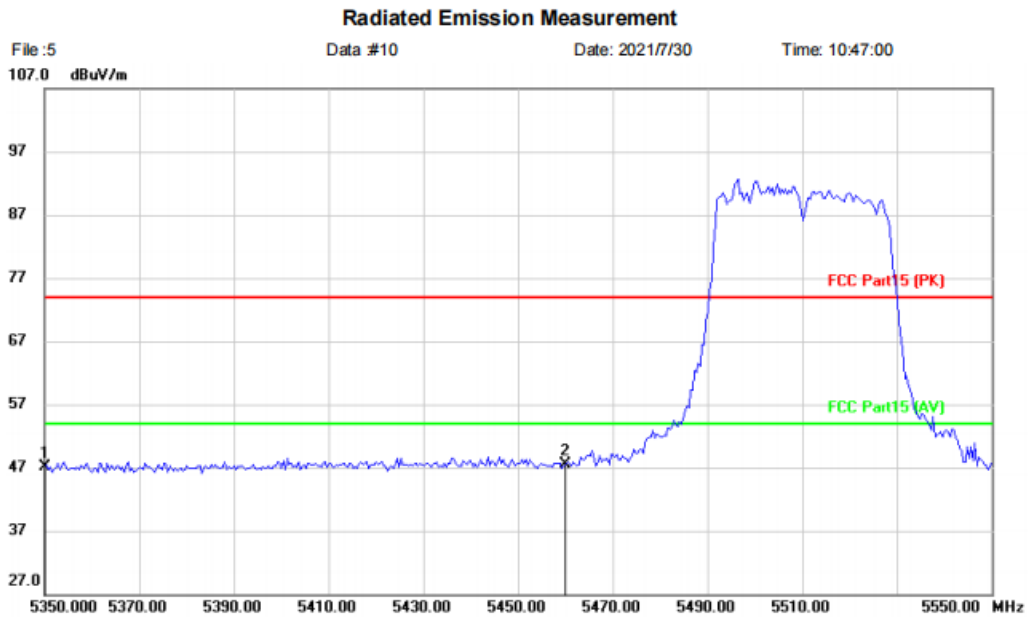
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		5350.000	46.10	0.95	47.05	74.00	-26.95	peak	
2	*	5460.000	48.94	0.87	49.81	74.00	-24.19	peak	

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX band3 N40 5510 channel]; [Polarity: Vertical]



Site	Polarization: <b>Vertical</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band3-N40-TX-L		
Note:		

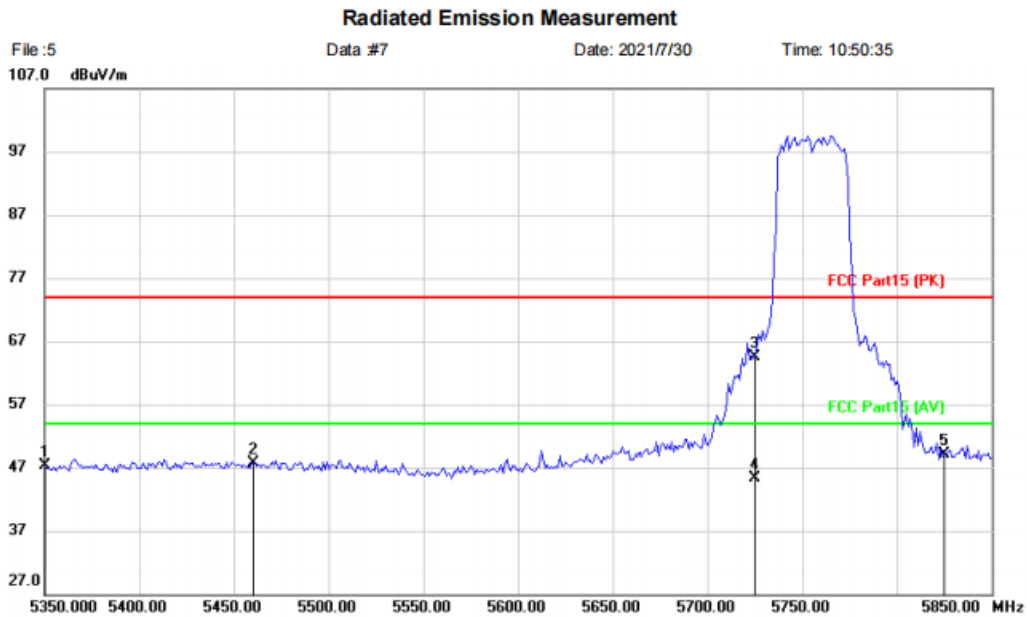
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5350.000	46.10	0.95	47.05	74.00	-26.95	peak		
2	*	5460.000	46.56	0.87	47.43	74.00	-26.57	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX band4 N40 5755 channel]; [Polarity: Horizontal]



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band4-N40-TX-L		
Note:		

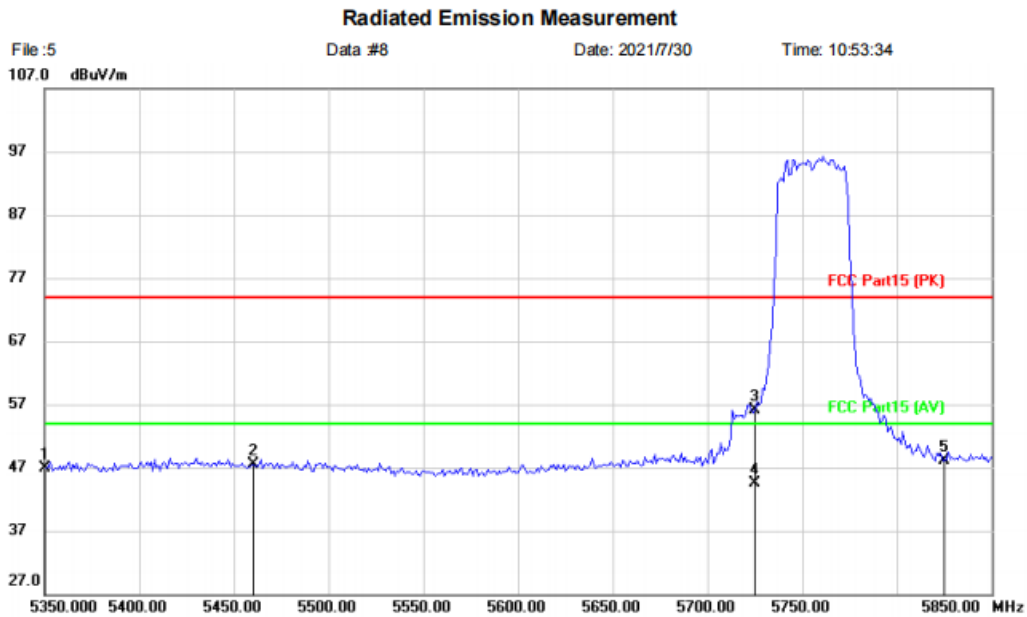
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5350.000	46.41	0.95	47.36	74.00	-26.64	peak		
2		5460.000	46.84	0.87	47.71	74.00	-26.29	peak		
3		5725.000	63.15	1.40	64.55	74.00	-9.45	peak		
4	*	5725.000	43.93	1.40	45.33	54.00	-8.67	AVG		
5		5825.000	47.80	1.26	49.06	74.00	-24.94	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX band4 N40 5755 channel]; [Polarity: Vertical]



Site	Polarization: <b>Vertical</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band4-N40-TX-L		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5350.000	45.88	0.95	46.83	74.00	-27.17	peak		
2		5460.000	46.65	0.87	47.52	74.00	-26.48	peak		
3		5725.000	54.61	1.40	56.01	74.00	-17.99	peak		
4	*	5725.000	43.13	1.40	44.53	54.00	-9.47	AVG		
5		5825.000	46.91	1.26	48.17	74.00	-25.83	peak		

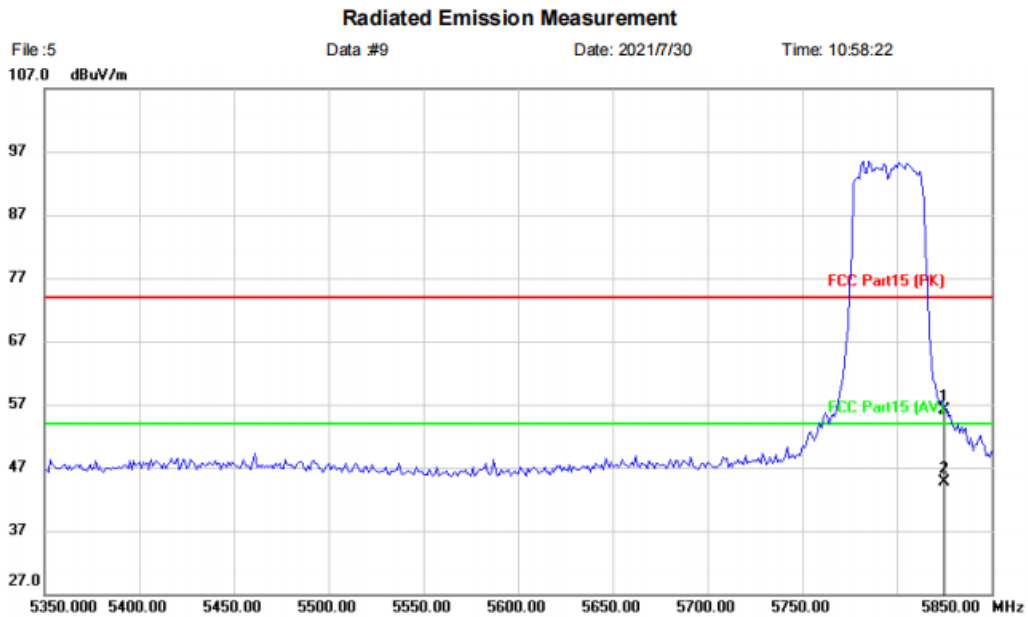
\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**



[TestMode: TX band4 N40 5795 channel]; [Polarity: Vertical]



Site	Polarization: <b>Vertical</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band4-N40-TX-H		
Note:		

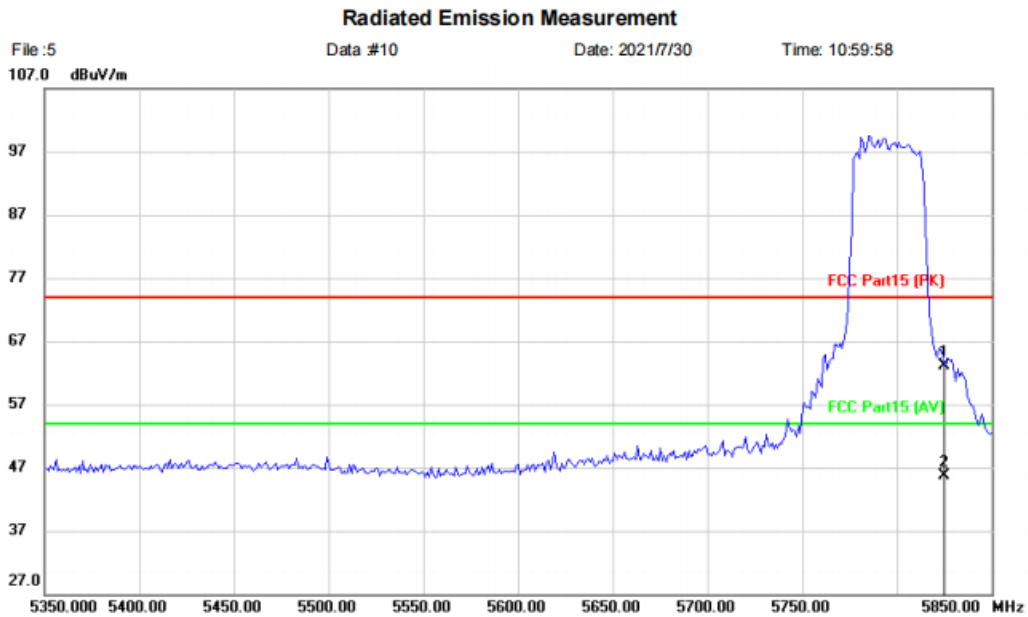
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5825.000	54.94	1.26	56.20	74.00	-17.80	peak		
2	*	5825.000	43.41	1.26	44.67	54.00	-9.33	AVG		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX band4 N40 5795 channel]; [Polarity: Horizontal]



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band4-N40-TX-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5825.000	61.90	1.26	63.16	74.00	-10.84	peak		
2	*	5825.000	44.43	1.26	45.69	54.00	-8.31	AVG		

\*:Maximum data    x:Over limit    !:over margin

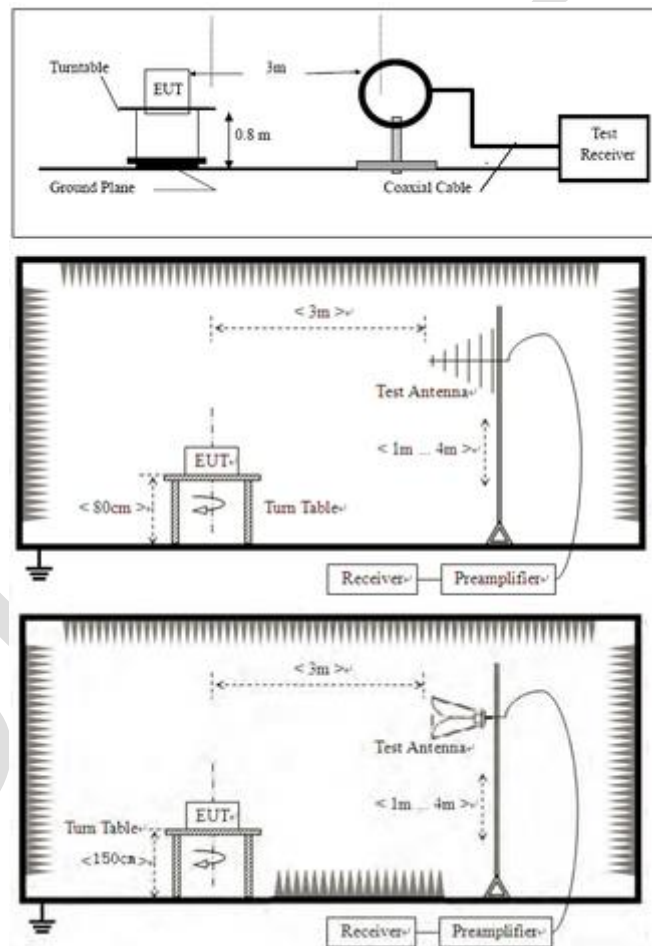
(Reference Only)

**Test Result: Pass**

### 13 RADIATED EMISSIONS

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 D02 II G
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

#### 13.1 BLOCK DIAGRAM OF TEST SETUP



#### 13.2 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest

radiation.

- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height 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.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

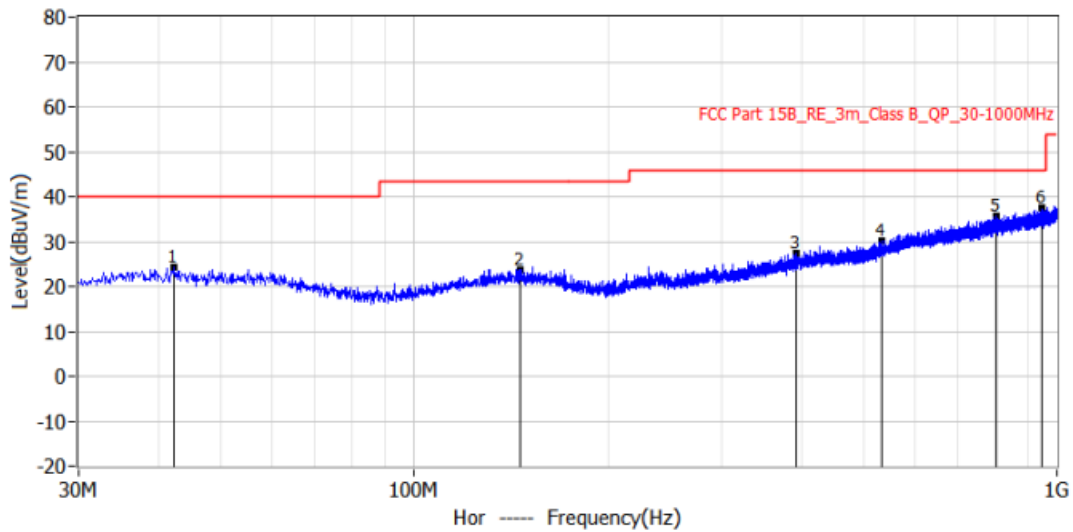
Remark:

1.  $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. fundamental frequency is blocked by filter, and only spurious emission is shown.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

### 13.3 TEST DATA

[TestMode: TX band1 below 1G]; [Polarity: Horizontal]

Test Lab: BlueAsia EMC Lab (RE #1)	Project: BLA-EMC-202106-A66
EUT: WIFI/BT Module	Test Engineer: Charlie
M/N: 6222C-PUC	Temperature: 25°C
S/N:	Humidity: 52%RH
Test Mode: 5G Band1 WIFI mode	Test Voltage:
Note:	Test Data: 2021-07-28 16:10:28

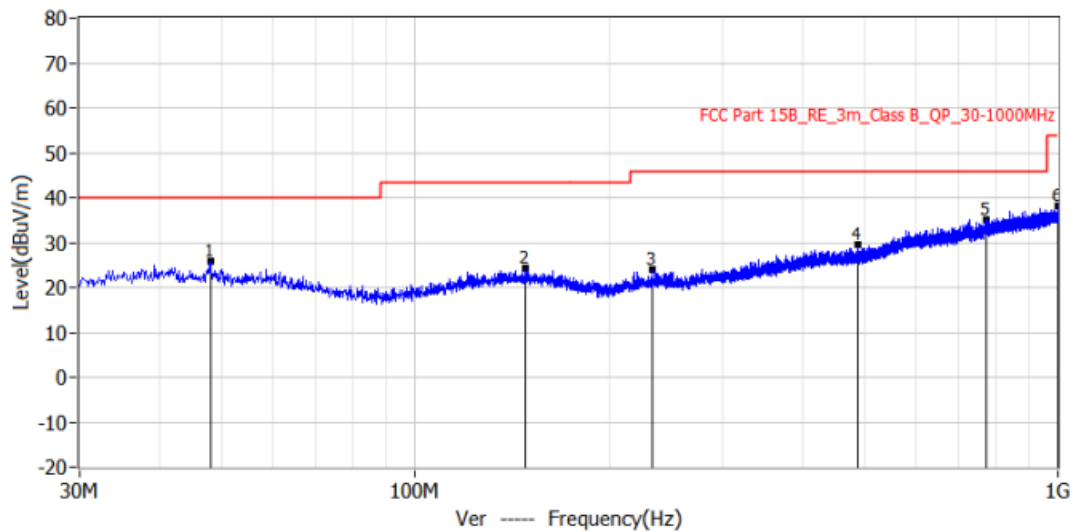


No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	42.246MHz	40.0	24.4	-15.6	0.4	24.0	QP	Hor	100.0	333.0
2*	146.158MHz	43.5	23.8	-19.7	0.2	23.6	QP	Hor	100.0	228.0
3*	392.416MHz	46.0	27.3	-18.7	0.3	27.0	QP	Hor	100.0	0.0
4*	534.036MHz	46.0	30.1	-15.9	0.7	29.4	QP	Hor	100.0	260.0
5*	805.394MHz	46.0	35.6	-10.4	1.4	34.2	QP	Hor	100.0	0.0
6*	945.923MHz	46.0	37.4	-8.6	1.9	35.5	QP	Hor	100.0	232.0

**Test Result: Pass**

[TestMode: TX band1 below 1G]; [Polarity: Vertical]

Test Lab: BlueAsia EMC Lab (RE #1)	Project: BLA-EMC-202106-A66
EUT: WIFI/BT Module	Test Engineer: Charlie
M/N: 6222C-PUC	Temperature: 25°C
S/N:	Humidity: 52%RH
Test Mode: 5G Band1 WIFI mode	Test Voltage:
Note:	Test Data: 2021-07-28 16:12:04

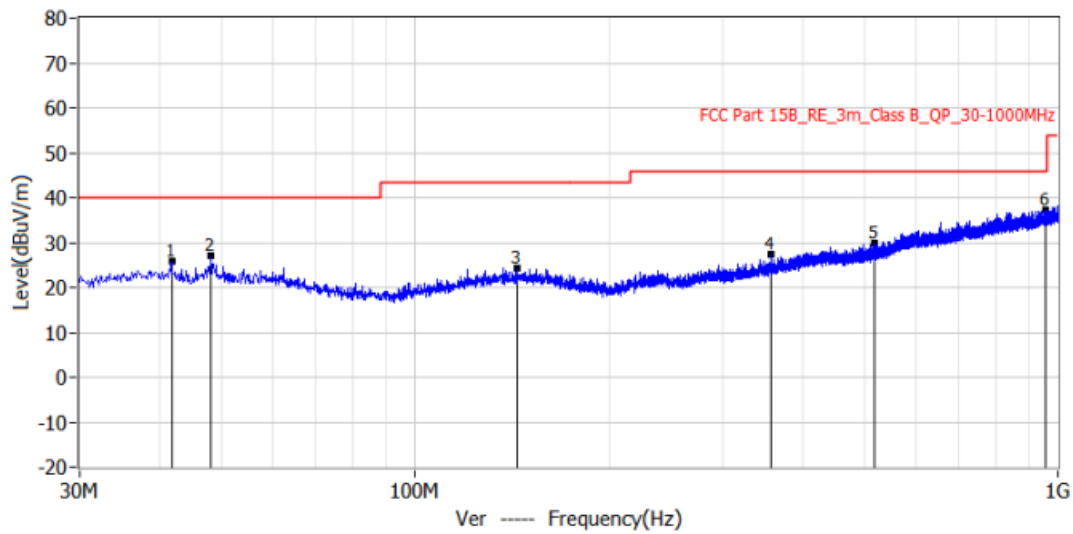


No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	47.945MHz	40.0	25.9	-14.1	2.0	23.9	QP	Ver	100.0	76.0
2*	148.583MHz	43.5	24.2	-19.3	0.7	23.5	QP	Ver	100.0	227.0
3*	233.215MHz	46.0	23.9	-22.1	1.4	22.5	QP	Ver	100.0	29.0
4*	486.991MHz	46.0	29.4	-16.6	1.1	28.3	QP	Ver	100.0	233.0
5*	774.354MHz	46.0	35.1	-10.9	1.5	33.6	QP	Ver	100.0	242.0
6*	998.666MHz	54.0	38.1	-15.9	1.9	36.2	QP	Ver	100.0	229.0

**Test Result: Pass**

[TestMode: TX band2 below 1G]; [Polarity: Vertical]

Test Lab: BlueAsia EMC Lab (RE #1)	Project: BLA-EMC-202106-A66
EUT: WIFI/BT Module	Test Engineer: Charlie
M/N: 6222C-PUC	Temperature: 25°C
S/N:	Humidity: 52%RH
Test Mode: 5G Band2 WIFI mode	Test Voltage:
Note:	Test Data: 2021-07-28 16:14:09

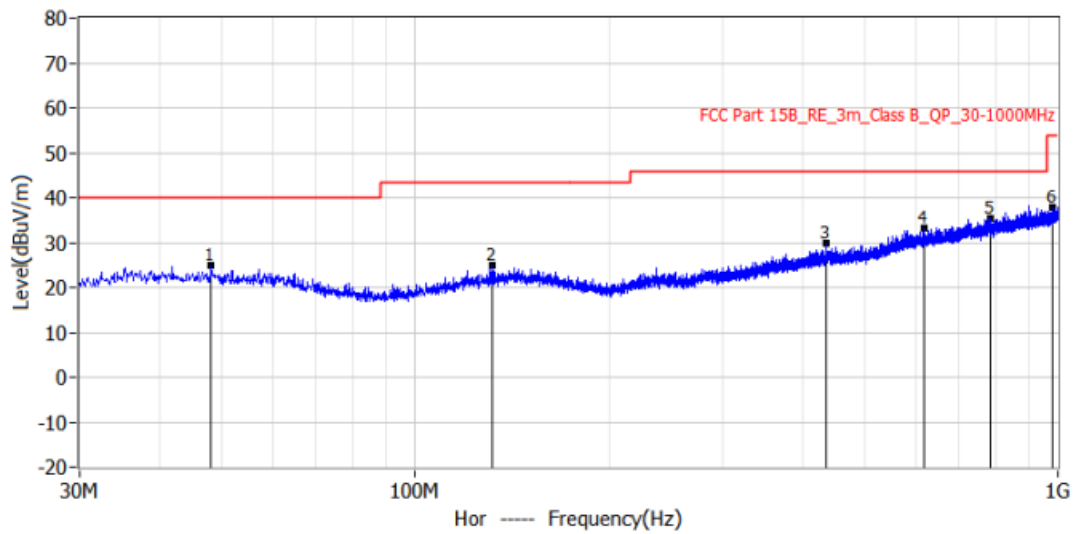


No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	41.761MHz	40.0	25.7	-14.3	1.7	24.0	QP	Ver	100.0	30.0
2*	48.066MHz	40.0	27.2	-12.8	3.3	23.9	QP	Ver	100.0	61.0
3*	143.975MHz	43.5	24.4	-19.1	0.8	23.6	QP	Ver	100.0	0.0
4*	357.618MHz	46.0	27.4	-18.6	1.5	25.9	QP	Ver	100.0	259.0
5*	518.153MHz	46.0	29.7	-16.3	0.8	28.9	QP	Ver	100.0	190.0
6*	954.895MHz	46.0	37.1	-8.9	1.5	35.6	QP	Ver	100.0	36.0

**Test Result: Pass**

[TestMode: TX band2 below 1G]; [Polarity: Horizontal]

Test Lab: BlueAsia EMC Lab (RE #1)	Project: BLA-EMC-202106-A66
EUT: WIFI/BT Module	Test Engineer: Charlie
M/N: 6222C-PUC	Temperature: 25°C
S/N:	Humidity: 52%RH
Test Mode: 5G Band2 WIFI mode	Test Voltage:
Note:	Test Data: 2021-07-28 16:17:17



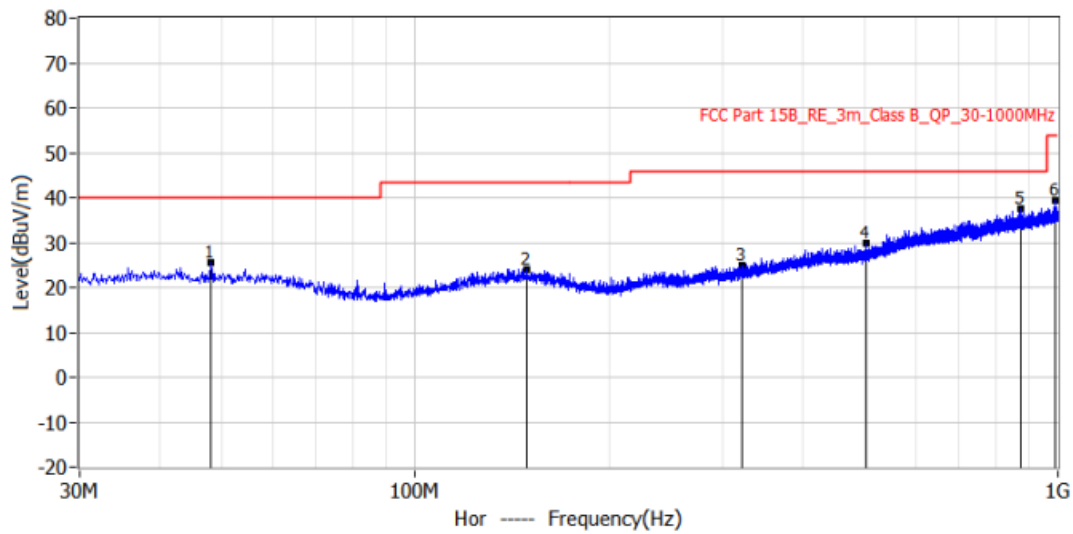
No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	48.066MHz	40.0	24.9	-15.1	1.0	23.9	QP	Hor	100.0	122.0
2*	131.365MHz	43.5	25.0	-18.5	1.7	23.3	QP	Hor	100.0	78.0
3*	435.460MHz	46.0	29.9	-16.1	2.2	27.7	QP	Hor	100.0	242.0
4*	617.820MHz	46.0	33.1	-12.9	1.7	31.4	QP	Hor	100.0	141.0
5*	783.933MHz	46.0	35.5	-10.5	1.7	33.8	QP	Hor	100.0	252.0
6*	981.206MHz	54.0	38.0	-16.0	2.0	36.0	QP	Hor	100.0	223.0

**Test Result: Pass**



[TestMode: TX band3 below 1G]; [Polarity: Horizontal]

Test Lab: BlueAsia EMC Lab (RE #1)	Project: BLA-EMC-202106-A66
EUT: WIFI/BT Module	Test Engineer: Charlie
M/N: 6222C-PUC	Temperature: 25°C
S/N:	Humidity: 52%RH
Test Mode: 5G Band3 WIFI mode	Test Voltage:
Note:	Test Data: 2021-07-28 16:19:24

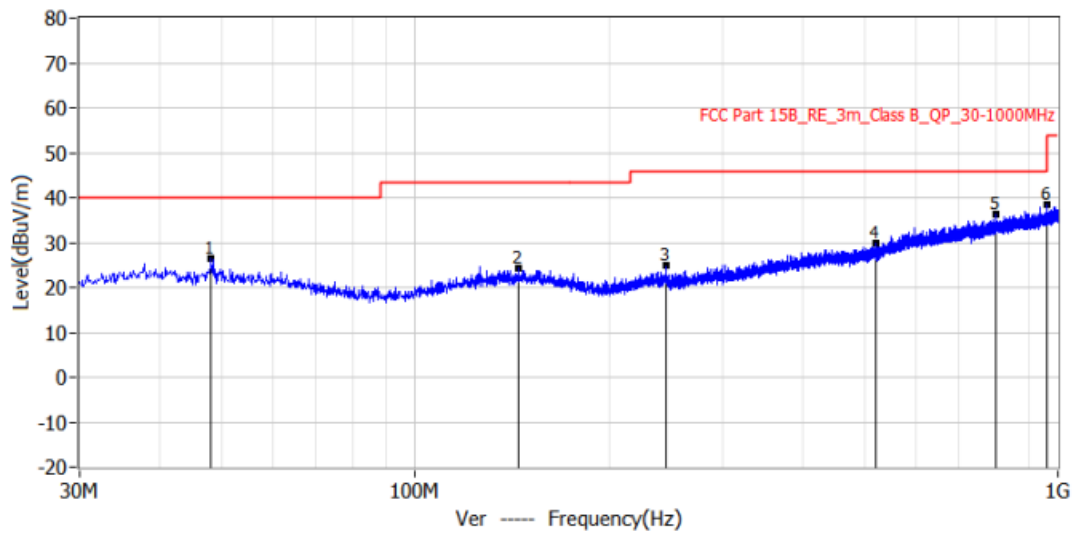


No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	47.945MHz	40.0	25.5	-14.5	1.6	23.9	QP	Hor	100.0	231.0
2*	149.068MHz	43.5	24.0	-19.5	0.5	23.5	QP	Hor	100.0	52.0
3*	322.213MHz	46.0	25.0	-21.0	0.2	24.8	QP	Hor	100.0	178.0
4*	502.875MHz	46.0	30.0	-16.0	1.5	28.5	QP	Hor	100.0	14.0
5*	874.385MHz	46.0	37.6	-8.4	2.8	34.8	QP	Hor	100.0	0.0
6*	992.240MHz	54.0	39.5	-14.5	3.4	36.1	QP	Hor	100.0	0.0

**Test Result: Pass**

[TestMode: TX band3 below 1G]; [Polarity: Vertical]

Test Lab: BlueAsia EMC Lab (RE #1)	Project: BLA-EMC-202106-A66
EUT: WIFI/BT Module	Test Engineer: Charlie
M/N: 6222C-PUC	Temperature: 25°C
S/N:	Humidity: 52%RH
Test Mode: 5G Band3 WIFI mode	Test Voltage:
Note:	Test Data: 2021-07-28 16:21:11

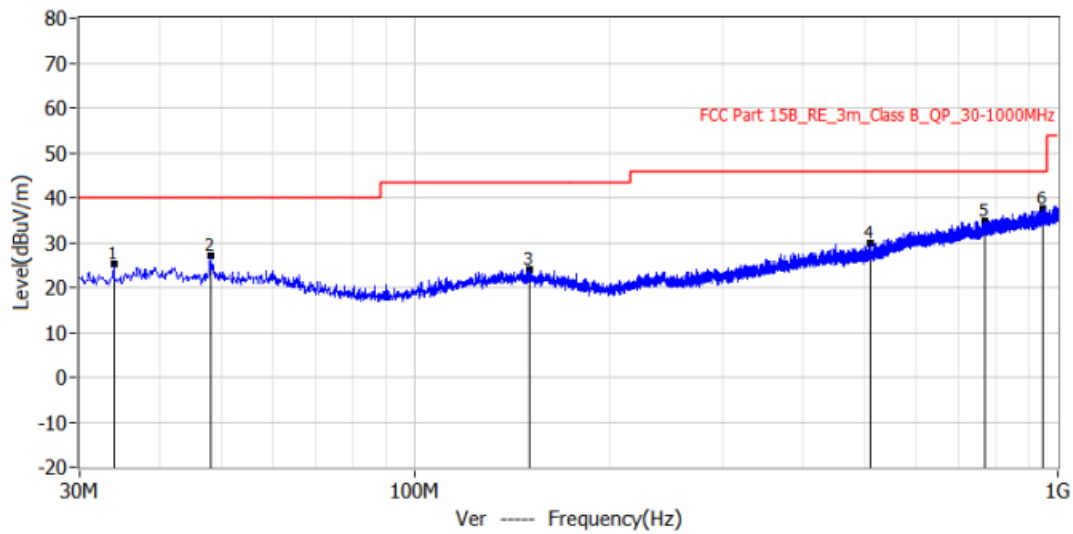


No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	48.066MHz	40.0	26.5	-13.5	2.6	23.9	QP	Ver	100.0	311.0
2*	144.824MHz	43.5	24.3	-19.2	0.7	23.6	QP	Ver	100.0	311.0
3*	245.583MHz	46.0	24.8	-21.2	2.0	22.8	QP	Ver	100.0	60.0
4*	521.184MHz	46.0	29.8	-16.2	0.8	29.0	QP	Ver	100.0	18.0
5*	801.756MHz	46.0	36.2	-9.8	2.0	34.2	QP	Ver	100.0	302.0
6*	959.503MHz	46.0	38.4	-7.6	2.7	35.7	QP	Ver	100.0	360.0

**Test Result: Pass**

[TestMode: TX band4 below 1G]; [Polarity: Vertical]

Test Lab: BlueAsia EMC Lab (RE #1)	Project: BLA-EMC-202106-A66
EUT: WIFI/BT Module	Test Engineer: Charlie
M/N: 6222C-PUC	Temperature: 25°C
S/N:	Humidity: 52%RH
Test Mode: 5G Band4 WIFI mode	Test Voltage:
Note:	Test Data: 2021-07-28 16:22:56

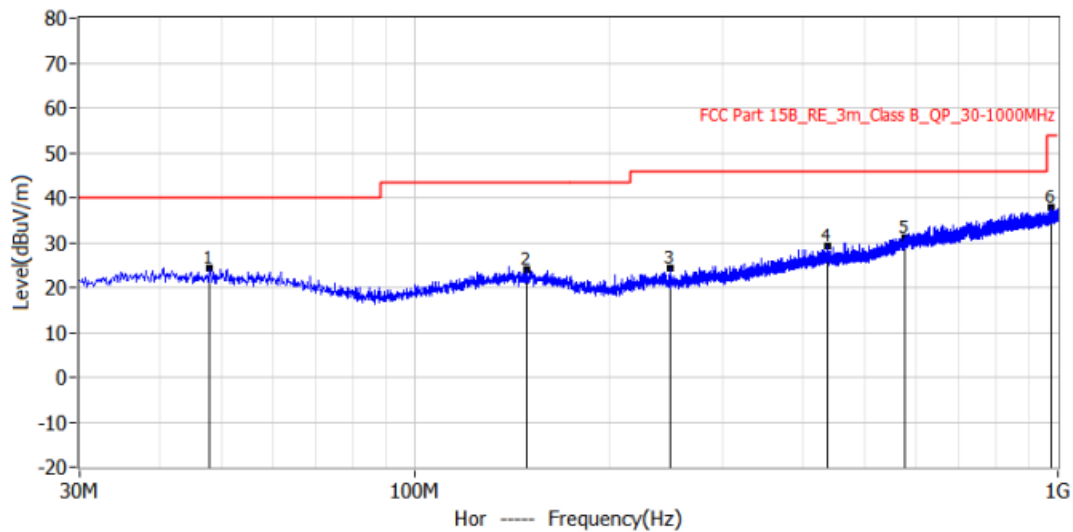


No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	33.880MHz	40.0	25.1	-14.9	1.8	23.3	QP	Ver	100.0	194.0
2*	47.945MHz	40.0	27.0	-13.0	3.1	23.9	QP	Ver	100.0	0.0
3*	150.644MHz	43.5	24.0	-19.5	0.5	23.5	QP	Ver	100.0	245.0
4*	509.180MHz	46.0	29.9	-16.1	1.2	28.7	QP	Ver	100.0	43.0
5*	767.928MHz	46.0	34.8	-11.2	1.3	33.5	QP	Ver	100.0	167.0
6*	948.833MHz	46.0	37.6	-8.4	2.0	35.6	QP	Ver	100.0	277.0

**Test Result: Pass**

[TestMode: TX band4 below 1G]; [Polarity: Horizontal]

Test Lab: BlueAsia EMC Lab (RE #1)	Project: BLA-EMC-202106-A66
EUT: WIFI/BT Module	Test Engineer: Charlie
M/N: 6222C-PUC	Temperature: 25°C
S/N:	Humidity: 52%RH
Test Mode: 5G Band4 WIFI mode	Test Voltage:
Note:	Test Data: 2021-07-28 16:24:53

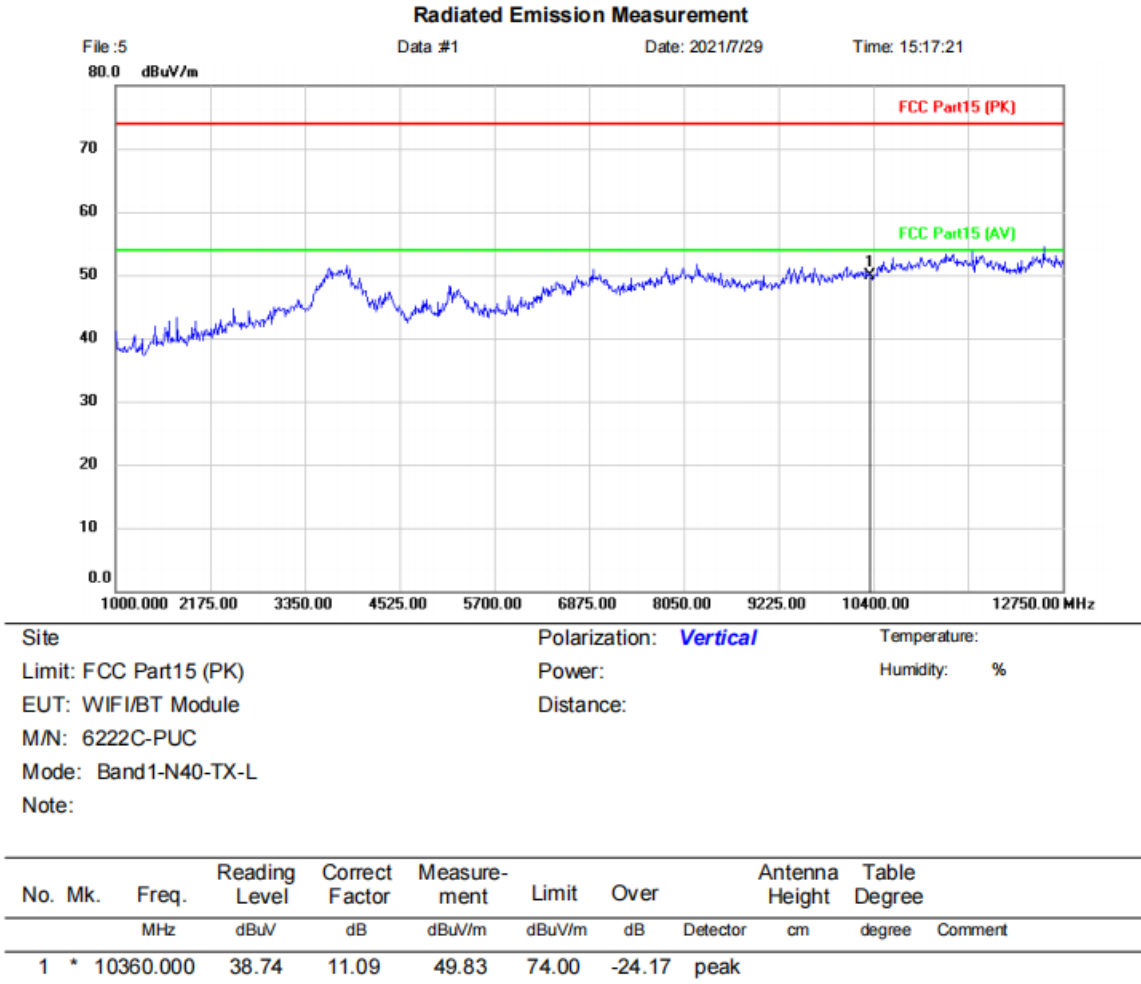


No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	47.824MHz	40.0	24.4	-15.6	0.5	23.9	QP	Hor	100.0	0.0
2*	148.825MHz	43.5	23.9	-19.6	0.4	23.5	QP	Hor	100.0	101.0
3*	249.463MHz	46.0	24.4	-21.6	1.7	22.7	QP	Hor	100.0	171.0
4*	437.158MHz	46.0	29.1	-16.9	1.4	27.7	QP	Hor	100.0	198.0
5*	577.565MHz	46.0	31.1	-14.9	0.5	30.6	QP	Hor	100.0	228.0
6*	975.629MHz	54.0	37.8	-16.2	1.9	35.9	QP	Hor	100.0	10.0

**Test Result: Pass**

Remark: During the test, pre-scan the 802.11a/n/ac mode, and found the 802.11N40 mode which it is worse case.

[TestMode: TX N40 5190 channel]; [Polarity: Vertical]

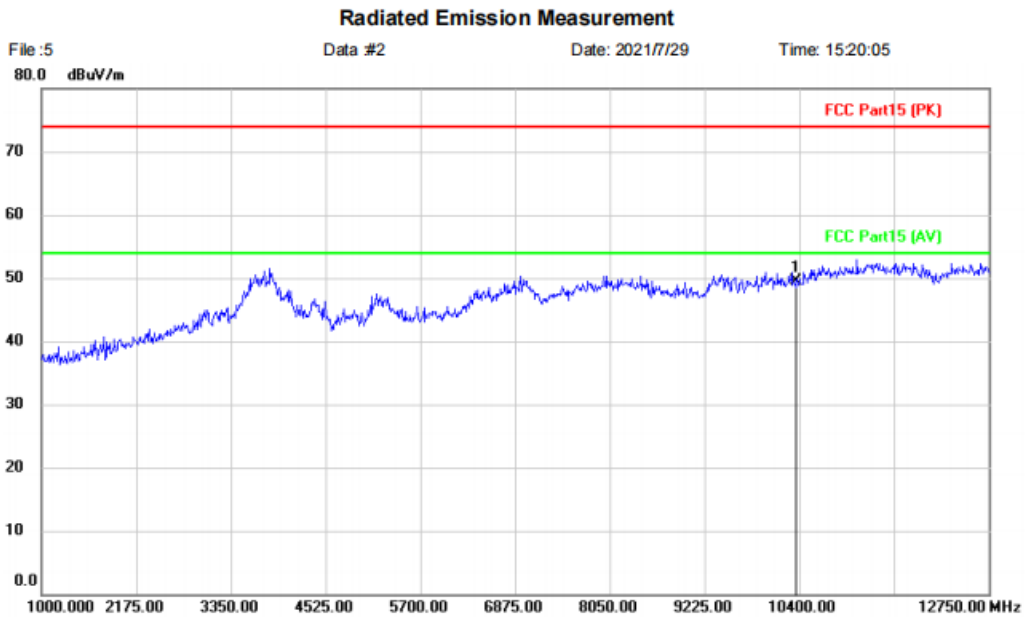


\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX N40 5190 channel]; [Polarity: Horizontal]



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band1-N40-TX-L		
Note:		

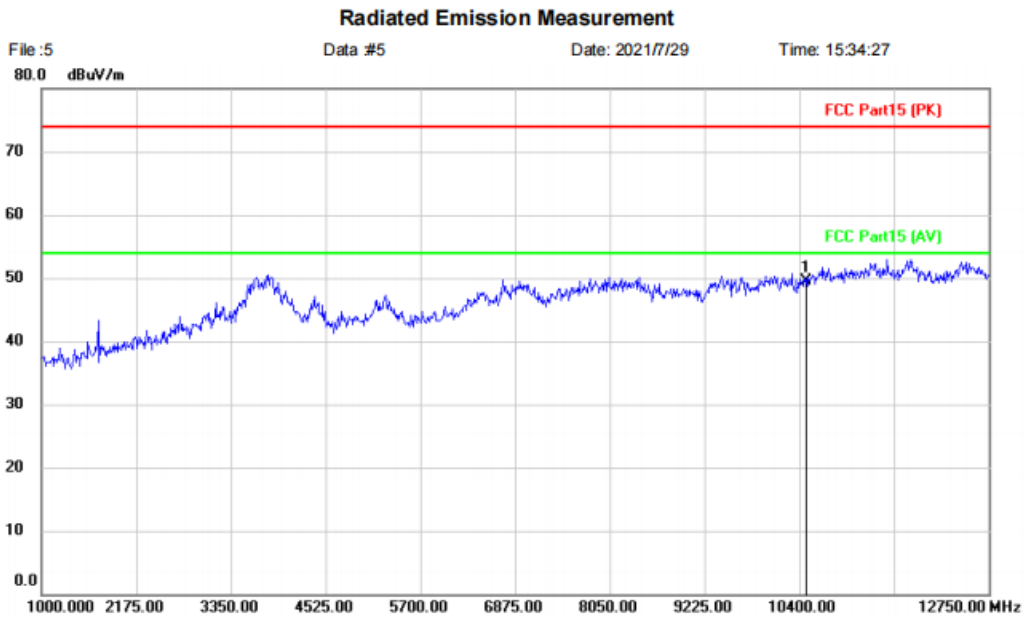
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	10360.000	38.47	11.09	49.56	74.00	-24.44	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX N40 5230 channel]; [Polarity: Vertical]



Site	Polarization: <b>Vertical</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band1-N40-TX-H		
Note:		

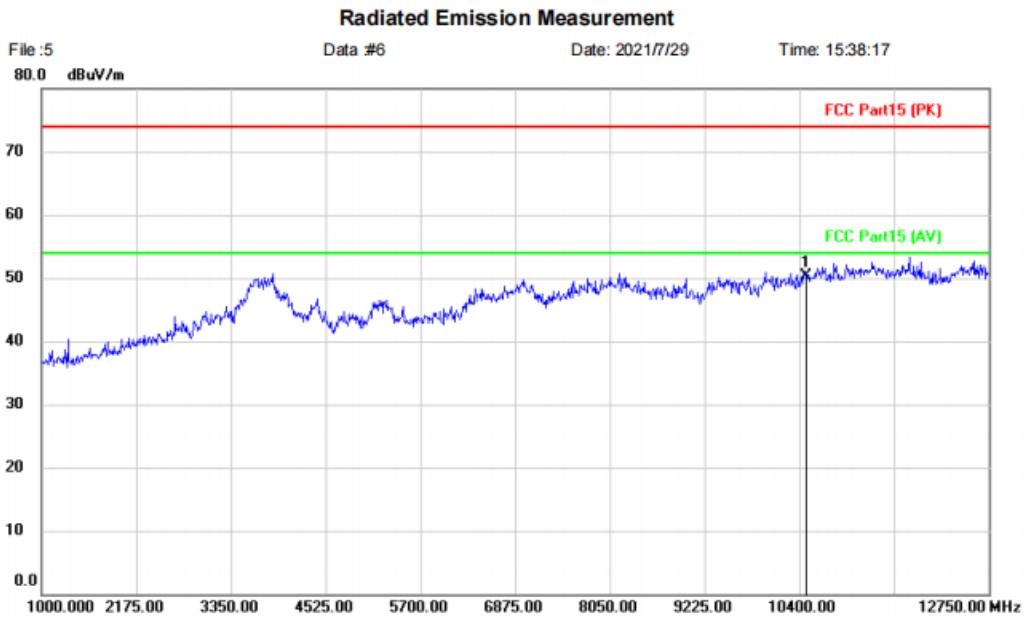
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	10480.000	38.36	11.18	49.54	74.00	-24.46	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX N40 5230 channel]; [Polarity: Horizontal]



Site	Polarization: <i>Horizontal</i>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band1-N40-TX-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	10480.000	39.05	11.18	50.23	74.00	-23.77	peak		

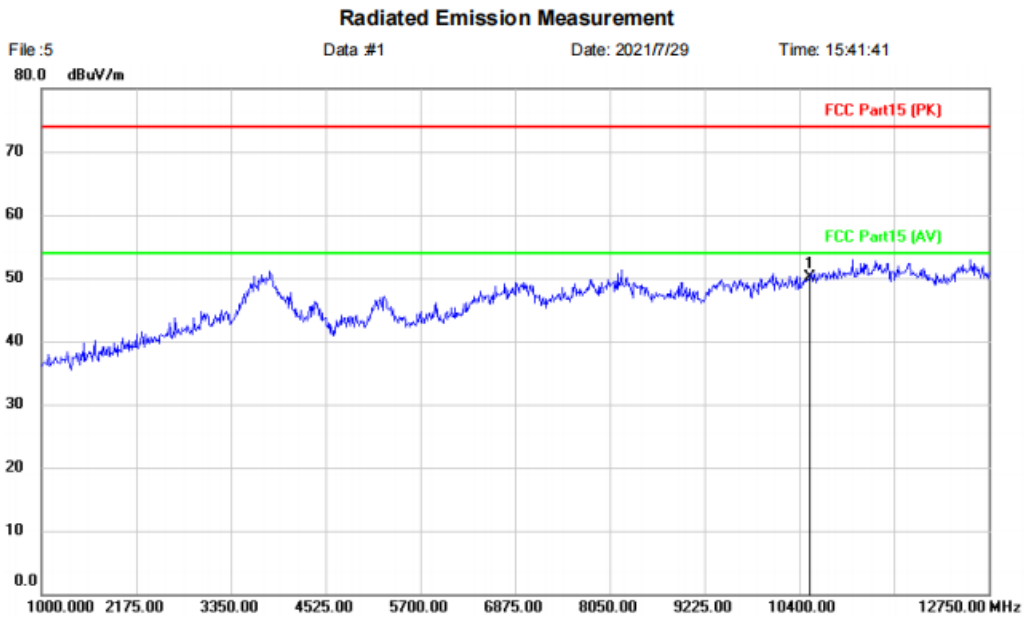
\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**



[TestMode: TX N40 5270 channel]; [Polarity: Horizontal]



Site	Polarization: <i>Horizontal</i>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band2-N40-TX-L		
Note:		

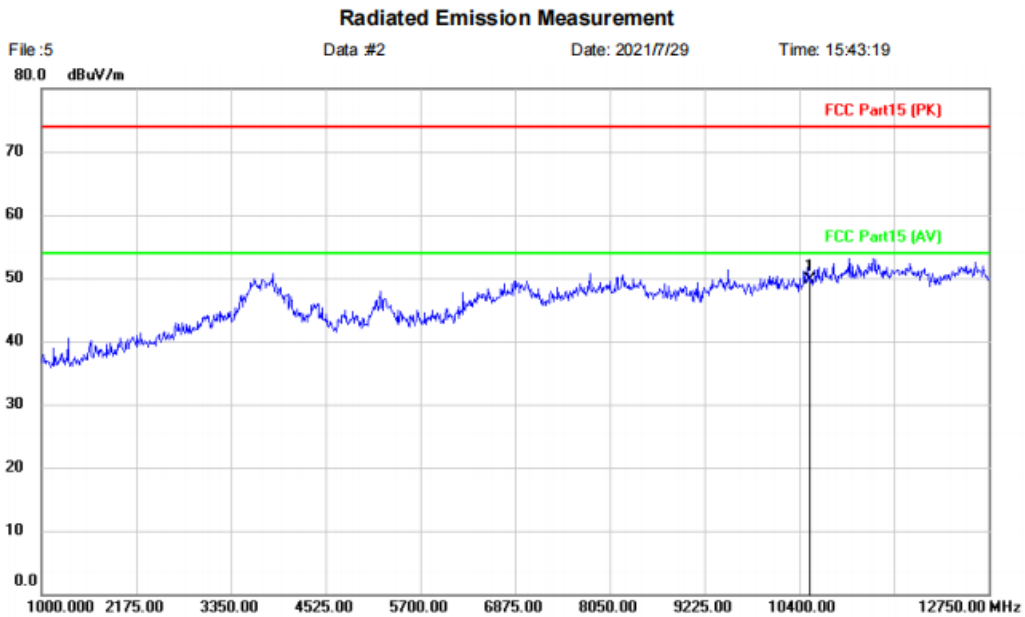
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	10520.000	39.02	11.17	50.19	74.00	-23.81	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX N40 5270 channel]; [Polarity: Vertical]



Site	Polarization: <i>Vertical</i>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band2-N40-TX-L		
Note:		

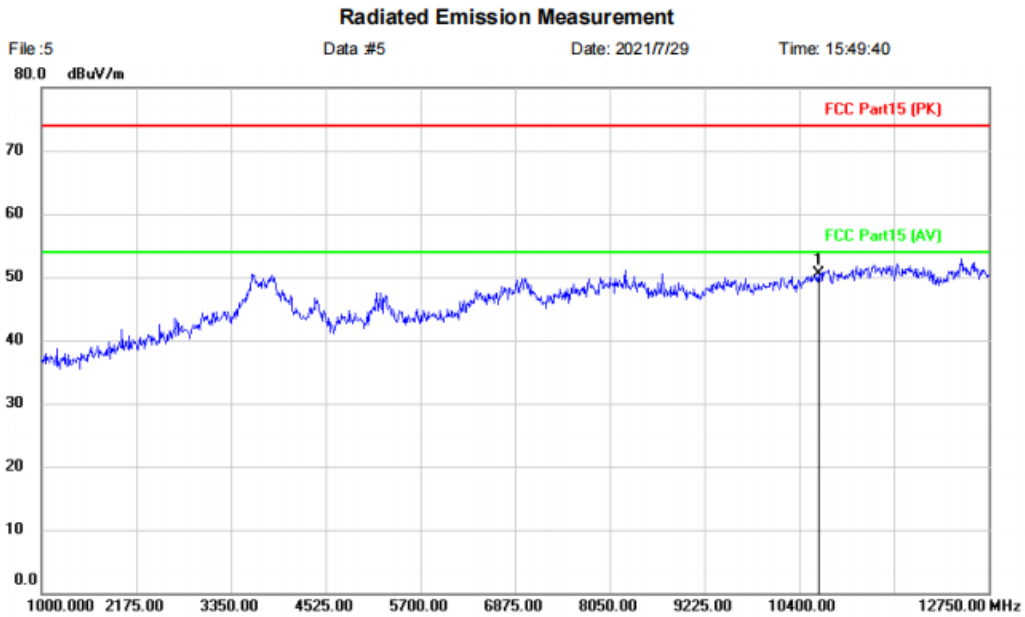
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	10520.000	38.46	11.17	49.63	74.00	-24.37	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX N40 5310 channel]; [Polarity: Horizontal]



Site	Polarization: <i>Horizontal</i>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band2-N40-TX-H		
Note:		

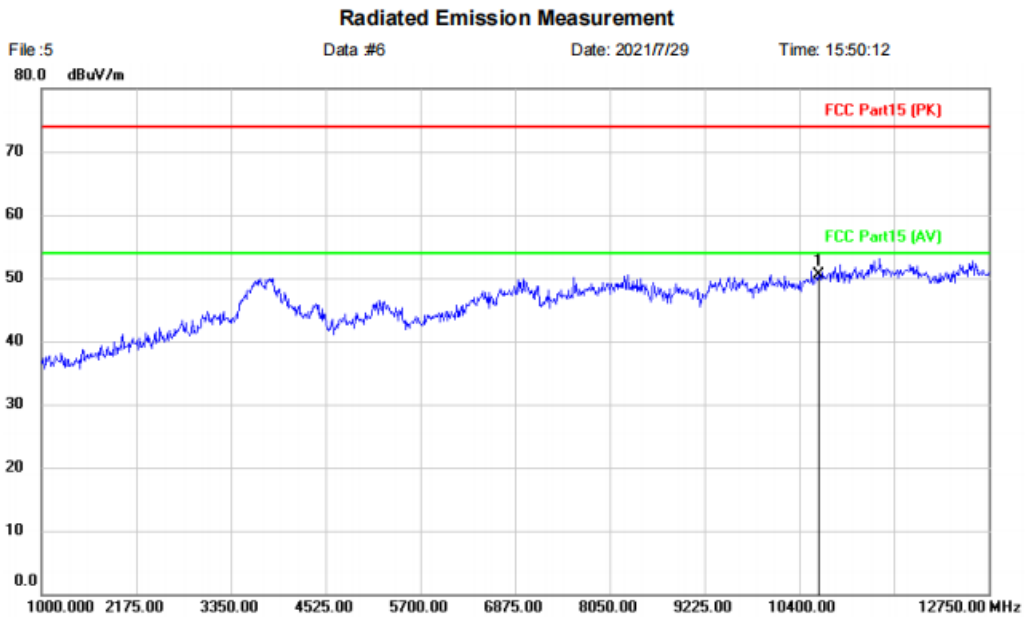
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	10640.000	39.16	11.26	50.42	74.00	-23.58	peak	

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX N40 5310 channel]; [Polarity: Vertical]



Site	Polarization: <i>Vertical</i>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band2-N40-TX-H		
Note:		

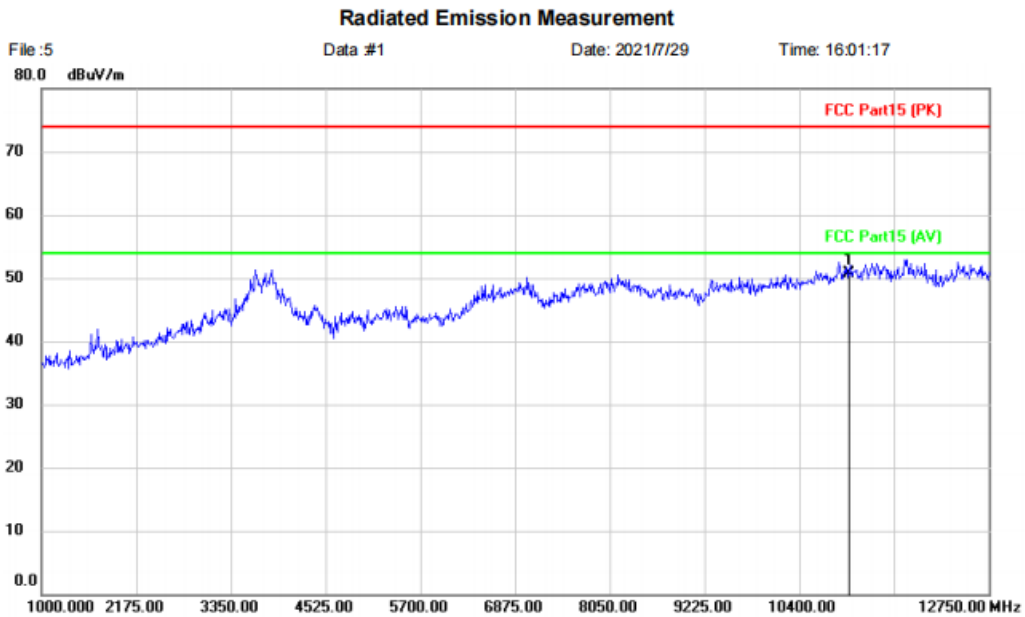
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	10640.000	39.29	11.26	50.55	74.00	-23.45	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX N40 5510 channel]; [Polarity: Vertical]



Site	Polarization: <i>Vertical</i>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band3-N40-TX-L		
Note:		

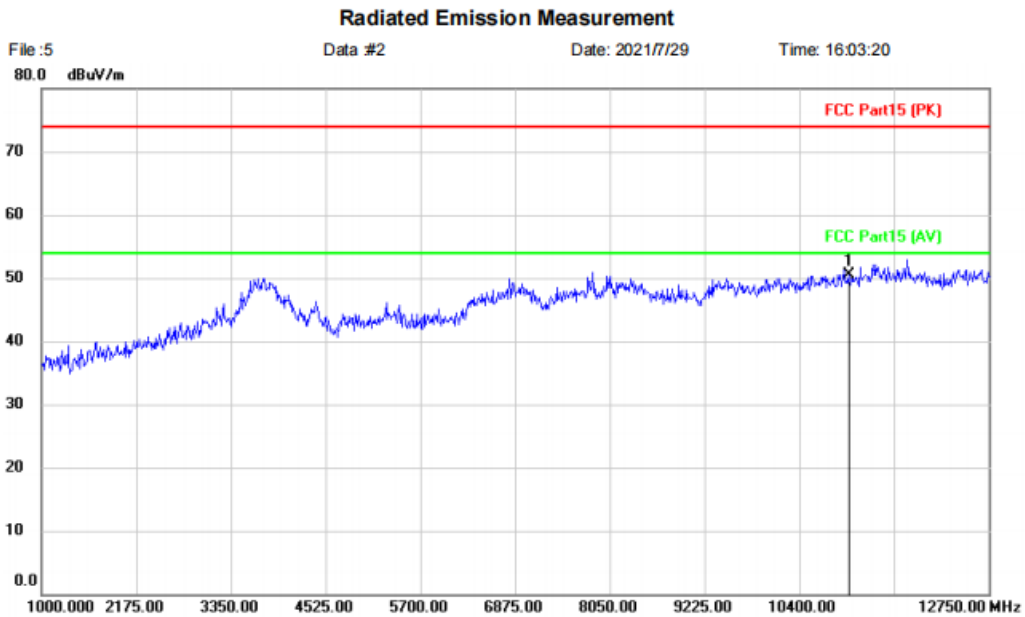
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	11000.000	38.63	11.99	50.62	74.00	-23.38	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX N40 5510 channel]; [Polarity: Horizontal]



Site	Polarization: <i>Horizontal</i>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band3-N40-TX-L		
Note:		

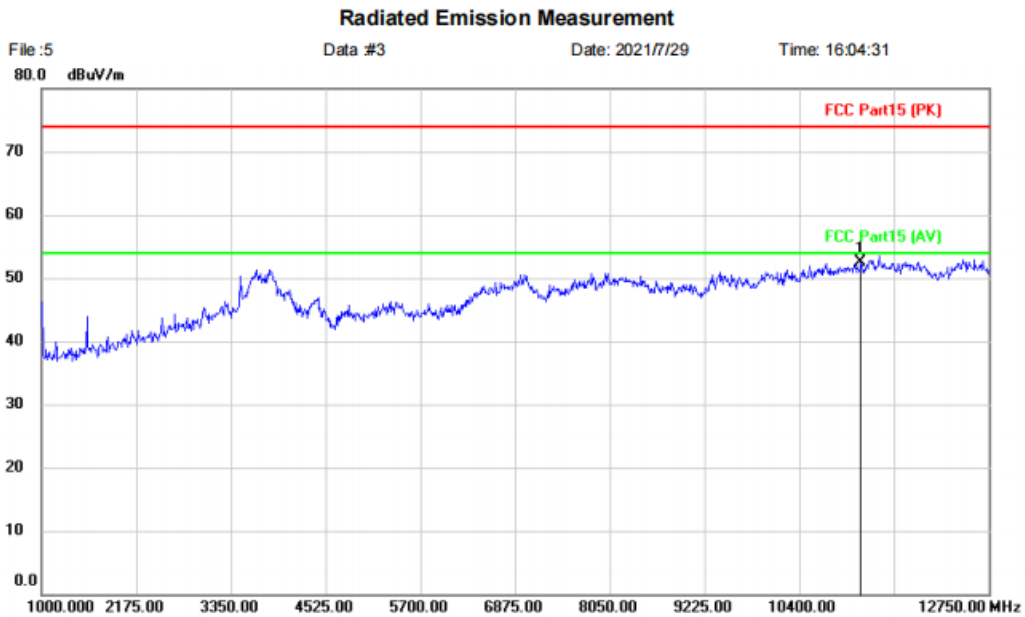
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	11000.000	38.50	11.99	50.49	74.00	-23.51	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX N40 5590 channel]; [Polarity: Horizontal]



Site	Polarization: <b>Horizontal</b>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band3-N40-TX-M		
Note:		

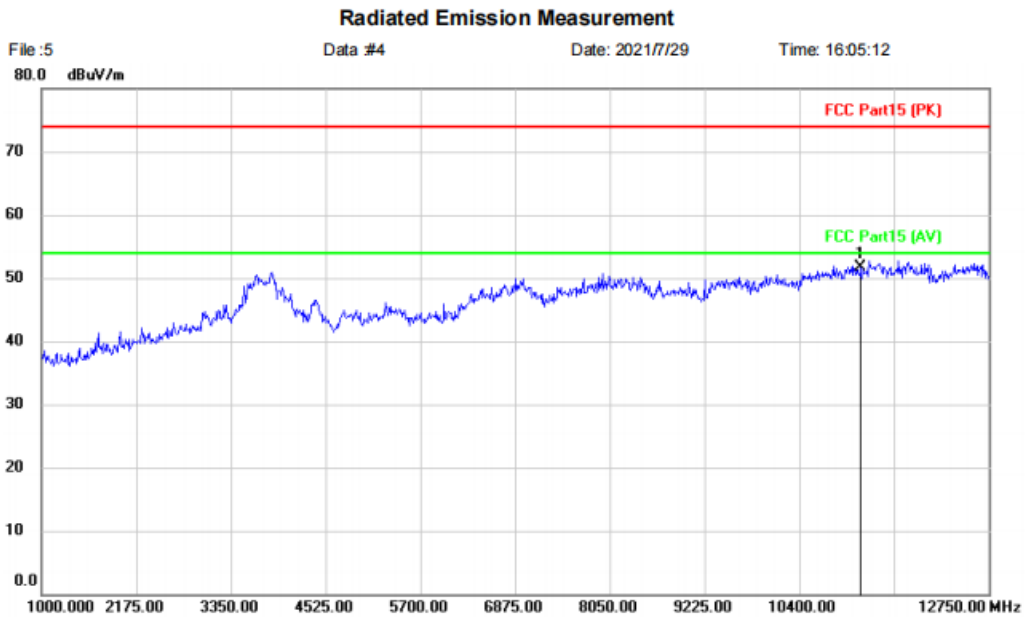
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	11160.000	40.43	12.03	52.46	74.00	-21.54	peak	

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX N40 5590 channel]; [Polarity: Vertical]



Site	Polarization: <i>Vertical</i>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band3-N40-TX-M		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	11160.000	39.65	12.03	51.68	74.00	-22.32	peak		

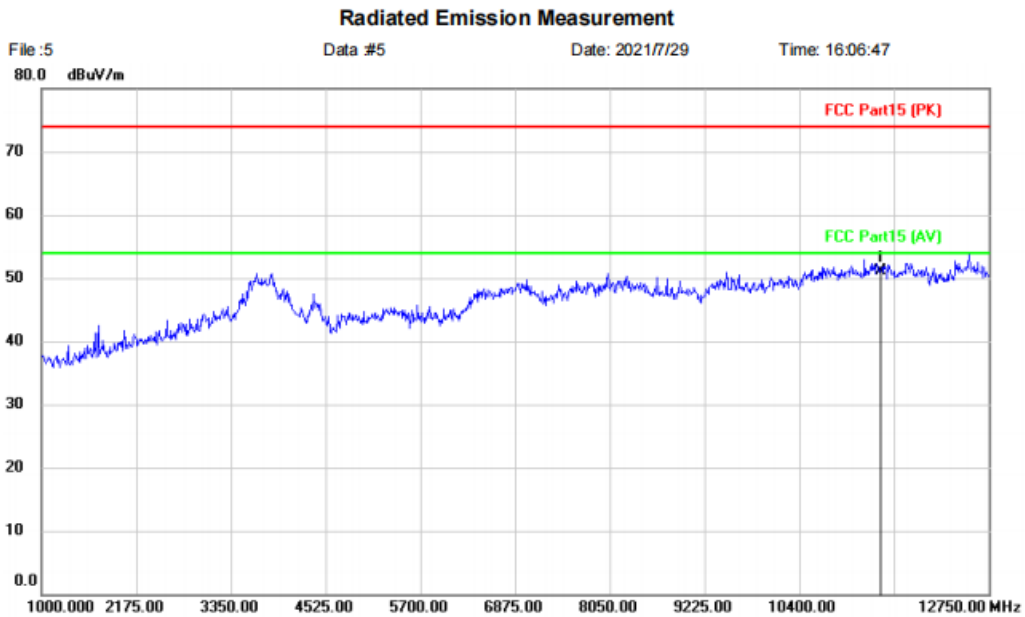
\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**



[TestMode: TX N40 5670 channel]; [Polarity: Vertical]



Site	Polarization: <i>Vertical</i>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Module	Distance:	
M/N: 6222C-PUC		
Mode: Band3-N40-TX-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	11400.000	39.36	11.76	51.12	74.00	-22.88	peak		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**