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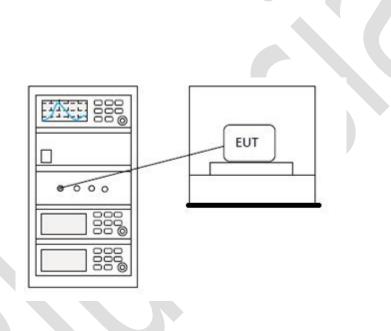
## 6.420dB bandwidth

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	ANSI C63.10 (2013) Section 6.9
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ

#### 6.4.1 Limit

N/A

#### 6.4.2 Test setup



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#### 6.4.3 Test data

Test Frequency MHz	20dB Bandwidth kHz	Result
2402	629.2	Pass
2440	662.2	Pass
2480	618.2	Pass

#### 2402MHz



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#### 2440MHz



## 2480MHz



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## 6.5 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ

#### 6.5.1 Limit

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	960-1000 500		QP	3
Above 1000	Above 1000 500		AV	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 1000MHz. 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.

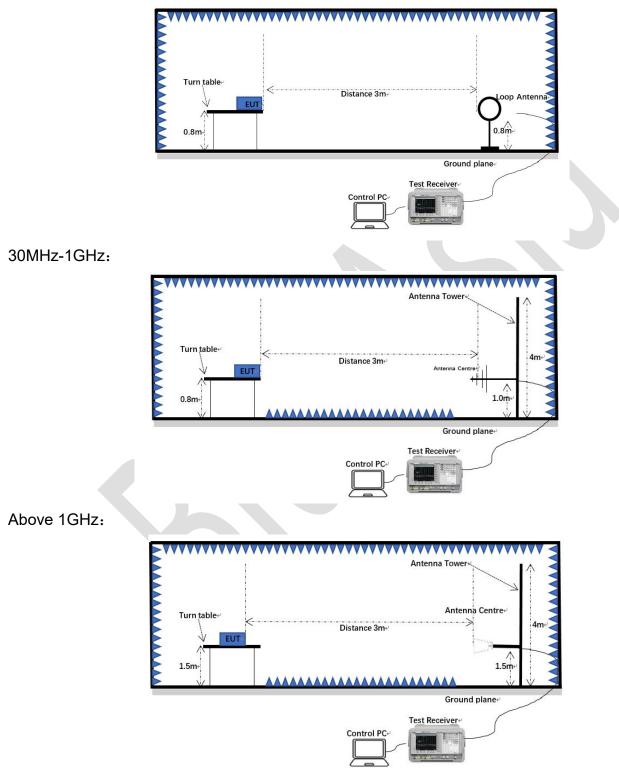
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#### 6.5.2 Test setup

Below 1GHz:



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#### 6.5.3 Procedure

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report. Remark:

1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

3) Scan from 9kHz to 25GHz, 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) 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.

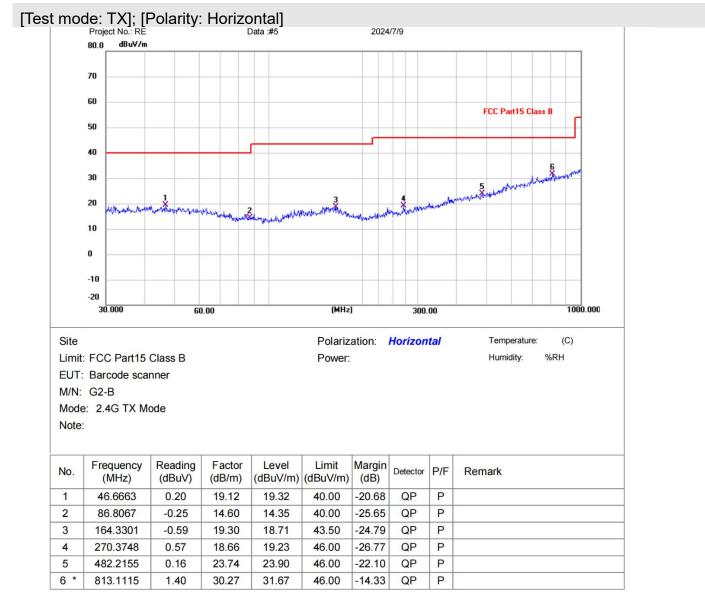
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#### 6.5.4 Test data

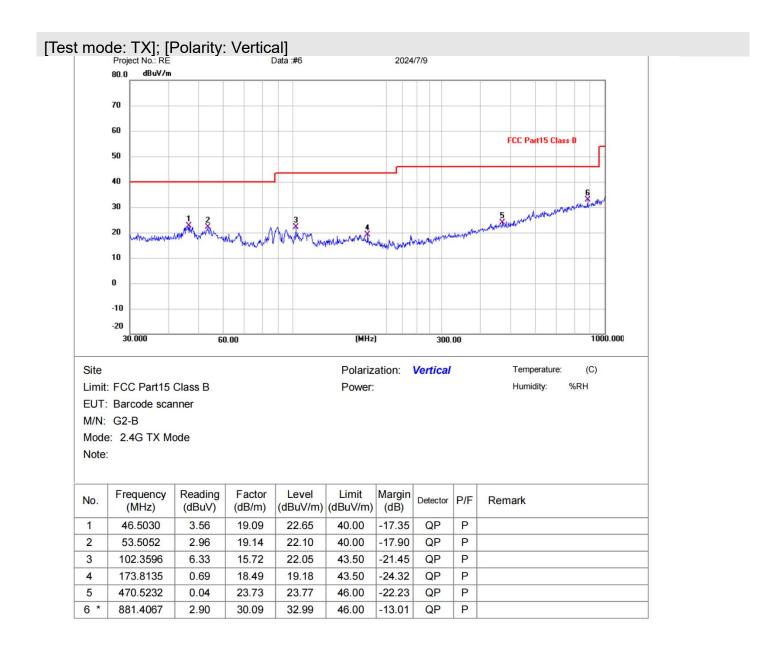
#### Below 1GHz



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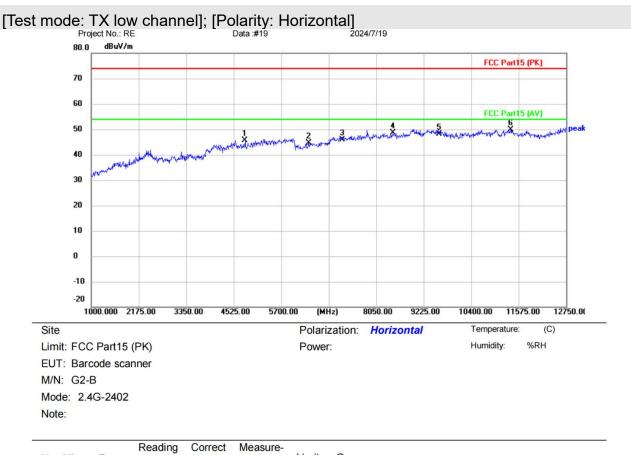


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#### Above 1GHz:



No.	Mk	. Freq.	Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	39.89	5.64	45.53	74.00	-28.47	peak	
2		6381.500	37.44	7.10	44.54	74.00	-29.46	peak	
3		7206.000	36.55	9.24	45.79	74.00	-28.21	peak	
4		8461.250	37.92	10.70	48.62	74.00	-25.38	peak	
5		9608.000	35.93	12.31	48.24	74.00	-25.76	peak	
6	*	11375.25	37.34	12.63	49.97	74.00	-24.03	peak	
		^							

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

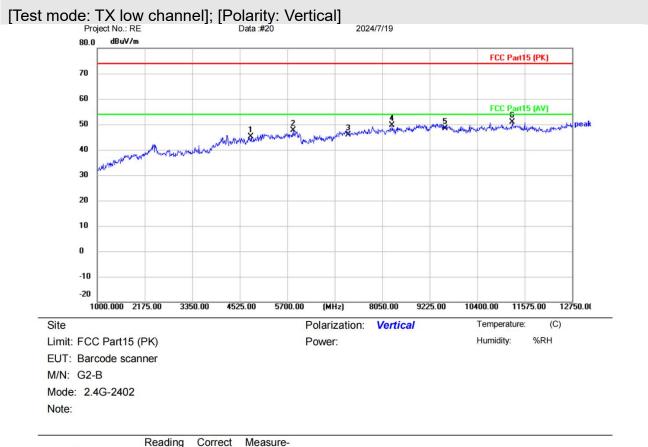
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**Test Result: Pass** 

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Mk.	. Freq.	Level	Factor	measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	4804.000	39.44	5.64	45.08	74.00	-28.92	peak	
	5841.000	39.41	8.31	47.72	74.00	-26.28	peak	
	7206.000	36.67	9.24	45.91	74.00	-28.09	peak	
	8296.750	39.40	10.23	49.63	74.00	-24.37	peak	
	9608.000	35.97	12.31	48.28	74.00	-25.72	peak	
*	11269.50	38.06	12.70	50.76	74.00	-23.24	peak	
		MHz 4804.000 5841.000 7206.000 8296.750 9608.000 * 11269.50	Mk.     Freq.     Level       MHz     dBuV       4804.000     39.44       5841.000     39.41       7206.000     36.67       8296.750     39.40       9608.000     35.97       *     11269.50     38.06	Mk.     Freq.     Level     Factor       MHz     dBuV     dB       4804.000     39.44     5.64       5841.000     39.41     8.31       7206.000     36.67     9.24       8296.750     39.40     10.23       9608.000     35.97     12.31       *     11269.50     38.06     12.70	Mk.     Freq.     Level     Factor     ment       MHz     dBuV     dB     dBuV/m       4804.000     39.44     5.64     45.08       5841.000     39.41     8.31     47.72       7206.000     36.67     9.24     45.91       8296.750     39.40     10.23     49.63       9608.000     35.97     12.31     48.28       *     11269.50     38.06     12.70     50.76	Mk.     Freq.     Level     Factor     ment     Limit       MHz     dBuV     dB     dBuV/m     dBuV/m       4804.000     39.44     5.64     45.08     74.00       5841.000     39.41     8.31     47.72     74.00       7206.000     36.67     9.24     45.91     74.00       8296.750     39.40     10.23     49.63     74.00       9608.000     35.97     12.31     48.28     74.00       *     11269.50     38.06     12.70     50.76     74.00	Mk.     Freq.     Level     Factor     ment     Limit     Over       MHz     dBuV     dB     dBuV/m     dBuV/m     dB       4804.000     39.44     5.64     45.08     74.00     -28.92       5841.000     39.41     8.31     47.72     74.00     -28.09       7206.000     36.67     9.24     45.91     74.00     -28.09       8296.750     39.40     10.23     49.63     74.00     -24.37       9608.000     35.97     12.31     48.28     74.00     -25.72       *     11269.50     38.06     12.70     50.76     74.00     -23.24	Mk.     Freq.     Level     Factor     ment     Limit     Over       MHz     dBuV     dB     dBuV/m     dBuV/m     dB     Detector       4804.000     39.44     5.64     45.08     74.00     -28.92     peak       5841.000     39.41     8.31     47.72     74.00     -26.28     peak       7206.000     36.67     9.24     45.91     74.00     -28.09     peak       8296.750     39.40     10.23     49.63     74.00     -24.37     peak       9608.000     35.97     12.31     48.28     74.00     -25.72     peak       *     11269.50     38.06     12.70     50.76     74.00     -23.24     peak

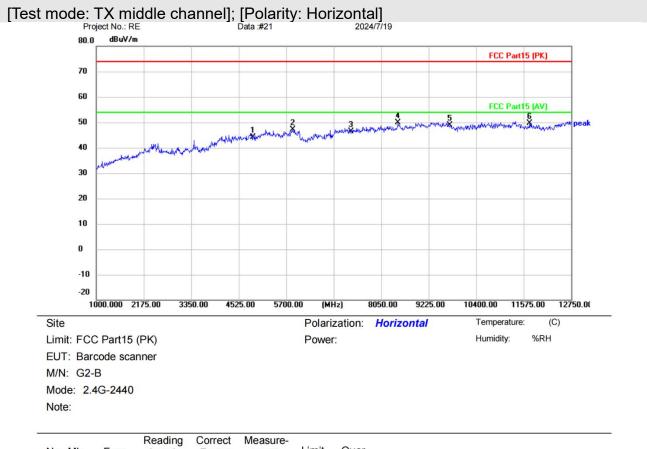
\*:Maximum data x:Over limit !:over margin

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Mk	. Freq.	Level	Factor	ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	4880.000	38.44	5.72	44.16	74.00	-29.84	peak	
	5864.500	38.74	8.48	47.22	74.00	-26.78	peak	
	7320.000	36.83	9.43	46.26	74.00	-27.74	peak	
*	8461.250	39.17	10.70	49.87	74.00	-24.13	peak	
	9760.000	36.73	12.21	48.94	74.00	-25.06	peak	
	11727.75	37.78	<mark>11.81</mark>	49.59	74.00	-24.41	peak	
		MHz 4880.000 5864.500 7320.000 * 8461.250 9760.000 11727.75	Mk.     Freq.     Level       MHz     dBuV       4880.000     38.44       5864.500     38.74       7320.000     36.83       *     8461.250     39.17       9760.000     36.73       11727.75     37.78	Mk.     Freq.     Level     Factor       MHz     dBuV     dB       4880.000     38.44     5.72       5864.500     38.74     8.48       7320.000     36.83     9.43       *     8461.250     39.17     10.70       9760.000     36.73     12.21       11727.75     37.78     11.81	Mk.     Freq.     Level     Factor     ment       MHz     dBuV     dB     dBuV/m       4880.000     38.44     5.72     44.16       5864.500     38.74     8.48     47.22       7320.000     36.83     9.43     46.26       *     8461.250     39.17     10.70     49.87       9760.000     36.73     12.21     48.94       11727.75     37.78     11.81     49.59	Mk.     Freq.     Level     Factor     ment     Limit       MHz     dBuV     dB     dBuV/m     dBuV/m       4880.000     38.44     5.72     44.16     74.00       5864.500     38.74     8.48     47.22     74.00       7320.000     36.83     9.43     46.26     74.00       *     8461.250     39.17     10.70     49.87     74.00       9760.000     36.73     12.21     48.94     74.00       11727.75     37.78     11.81     49.59     74.00	Mk.     Freq.     Level     Factor     ment     Limit     Over       MHz     dBuV     dB     dBuV/m     dBuV/m     dB       4880.000     38.44     5.72     44.16     74.00     -29.84       5864.500     38.74     8.48     47.22     74.00     -26.78       7320.000     36.83     9.43     46.26     74.00     -27.74       *     8461.250     39.17     10.70     49.87     74.00     -24.13       9760.000     36.73     12.21     48.94     74.00     -25.06       11727.75     37.78     11.81     49.59     74.00     -24.41	Mk.     Freq.     Level     Factor     ment     Limit     Over       MHz     dBuV     dB     dBuV/m     dBuV/m     dB     Detector       4880.000     38.44     5.72     44.16     74.00     -29.84     peak       5864.500     38.74     8.48     47.22     74.00     -26.78     peak       7320.000     36.83     9.43     46.26     74.00     -27.74     peak       *     8461.250     39.17     10.70     49.87     74.00     -25.06     peak       9760.000     36.73     12.21     48.94     74.00     -25.06     peak       11727.75     37.78     11.81     49.59     74.00     -24.41     peak

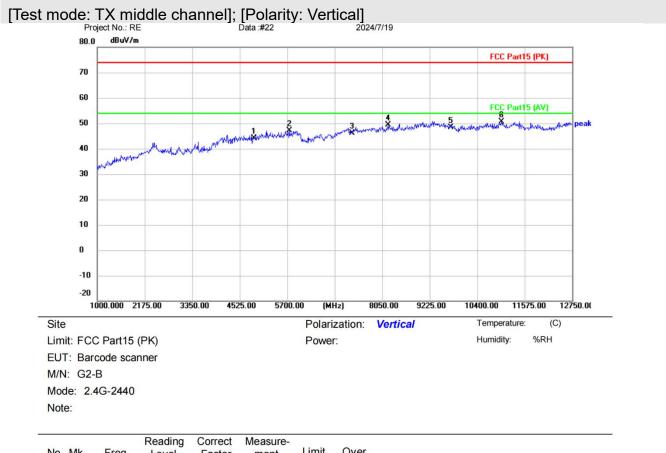
\*:Maximum data x:Over limit !:over margin

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Mk	. Freq.	Level	Factor	ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	4880.000	38.37	5.72	44.09	74.00	-29.91	peak	
	5758.750	39.03	8.11	47.14	74.00	-26.86	peak	
	7320.000	36.80	9.43	46.23	74.00	-27.77	peak	
	8191.000	39.49	9.88	49.37	74.00	-24.63	peak	
	9760.000	36.29	12.21	48.50	74.00	-25.50	peak	
*	10999.25	37.07	13.48	50.55	74.00	-23.45	peak	
		MHz 4880.000 5758.750 7320.000 8191.000 9760.000	MHz     dBuV       4880.000     38.37       5758.750     39.03       7320.000     36.80       8191.000     39.49       9760.000     36.29       *     10999.25     37.07	MHz     dBuV     dB       4880.000     38.37     5.72       5758.750     39.03     8.11       7320.000     36.80     9.43       8191.000     39.49     9.88       9760.000     36.29     12.21       *     10999.25     37.07     13.48	MHz     dBuV     dB     dBuV/m       4880.000     38.37     5.72     44.09       5758.750     39.03     8.11     47.14       7320.000     36.80     9.43     46.23       8191.000     39.49     9.88     49.37       9760.000     36.29     12.21     48.50       *     10999.25     37.07     13.48     50.55	MHz     dBuV     dB     dBuV/m     dBuV/m       4880.000     38.37     5.72     44.09     74.00       5758.750     39.03     8.11     47.14     74.00       7320.000     36.80     9.43     46.23     74.00       8191.000     39.49     9.88     49.37     74.00       9760.000     36.29     12.21     48.50     74.00       * 10999.25     37.07     13.48     50.55     74.00	MHz     dBuV     dB     dBuV/m     dBuV/m     dBuV/m     dB       4880.000     38.37     5.72     44.09     74.00     -29.91       5758.750     39.03     8.11     47.14     74.00     -26.86       7320.000     36.80     9.43     46.23     74.00     -27.77       8191.000     39.49     9.88     49.37     74.00     -24.63       9760.000     36.29     12.21     48.50     74.00     -25.50       *     10999.25     37.07     13.48     50.55     74.00     -23.45	MHz     dBuV     dB     dBuV/m     dB     Detector       4880.000     38.37     5.72     44.09     74.00     -29.91     peak       5758.750     39.03     8.11     47.14     74.00     -26.86     peak       7320.000     36.80     9.43     46.23     74.00     -27.77     peak       8191.000     39.49     9.88     49.37     74.00     -24.63     peak       9760.000     36.29     12.21     48.50     74.00     -25.50     peak       * 10999.25     37.07     13.48     50.55     74.00     -23.45     peak

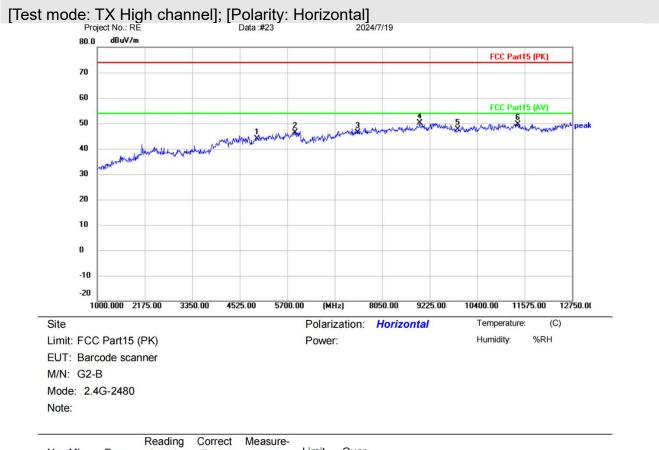
\*:Maximum data x:Over limit !:over margin

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No.	Mk	. Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	37.19	6.60	43.79	74.00	-30.21	peak	
2		5899.750	37.73	8.66	46.39	74.00	-27.61	peak	
3		7440.000	36.62	9.64	46.26	74.00	-27.74	peak	
4	*	8978.250	37.64	12.37	50.01	74.00	-23.99	peak	
5		9920.000	35.45	12.14	47.59	74.00	-26.41	peak	
6		11410.50	37.09	12.61	49.70	74.00	-24.30	peak	

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

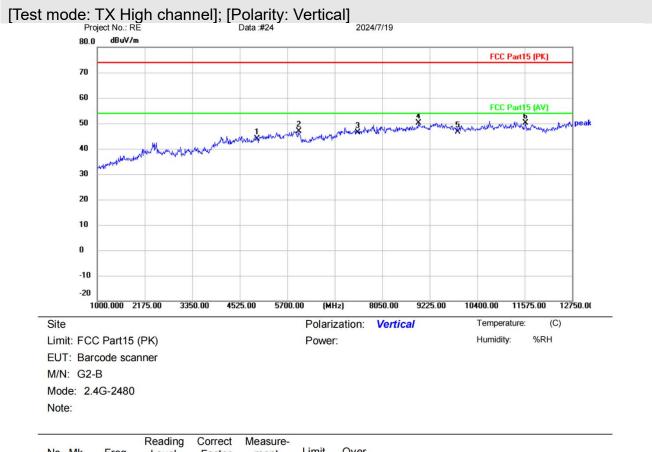
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**Test Result: Pass** 

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Mk	. Freq.	Level	Factor	ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	4960.000	37.17	6.60	43.77	74.00	-30.23	peak	
	5982.000	38.16	8.74	46.90	74.00	-27.10	peak	
	7440.000	36.64	9.64	46.28	74.00	-27.72	peak	
	8943.000	37.82	12.23	50.05	74.00	-23.95	peak	
	9920.000	34.37	12.14	46.51	74.00	-27.49	peak	
*	11598.50	38.08	12.14	50.22	74.00	-23.78	peak	
		MHz 4960.000 5982.000 7440.000 8943.000 9920.000 * 11598.50	MHz     dBuV       4960.000     37.17       5982.000     38.16       7440.000     36.64       8943.000     37.82       9920.000     34.37       *     11598.50     38.08	MHz     dBuV     dB       4960.000     37.17     6.60       5982.000     38.16     8.74       7440.000     36.64     9.64       8943.000     37.82     12.23       9920.000     34.37     12.14       *     11598.50     38.08     12.14	MHz     dBuV     dB     dBuV/m       4960.000     37.17     6.60     43.77       5982.000     38.16     8.74     46.90       7440.000     36.64     9.64     46.28       8943.000     37.82     12.23     50.05       9920.000     34.37     12.14     46.51       *     11598.50     38.08     12.14     50.22	MHz     dBuV     dB     dBuV/m     dBuV/m       4960.000     37.17     6.60     43.77     74.00       5982.000     38.16     8.74     46.90     74.00       7440.000     36.64     9.64     46.28     74.00       8943.000     37.82     12.23     50.05     74.00       9920.000     34.37     12.14     46.51     74.00       * 11598.50     38.08     12.14     50.22     74.00	MHz     dBuV     dB     dBuV/m     dBuV/m     dBuV/m     dB       4960.000     37.17     6.60     43.77     74.00     -30.23       5982.000     38.16     8.74     46.90     74.00     -27.10       7440.000     36.64     9.64     46.28     74.00     -27.72       8943.000     37.82     12.23     50.05     74.00     -23.95       9920.000     34.37     12.14     46.51     74.00     -27.49       *     11598.50     38.08     12.14     50.22     74.00     -23.78	MHz     dBuV     dB     dBuV/m     dBuV/m     dB     Detector       4960.000     37.17     6.60     43.77     74.00     -30.23     peak       5982.000     38.16     8.74     46.90     74.00     -27.10     peak       7440.000     36.64     9.64     46.28     74.00     -27.72     peak       8943.000     37.82     12.23     50.05     74.00     -23.95     peak       9920.000     34.37     12.14     46.51     74.00     -27.49     peak       * 11598.50     38.08     12.14     50.22     74.00     -23.78     peak

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

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## 6.6 Restricted bands around fundamental frequency

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	ANSI C63.10 (2013) Section 6.4&6.5&6.6
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ

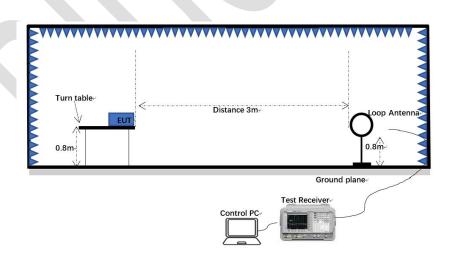
#### 6.6.1 Limit

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

#### 6.6.2 Test setup

Below 1GHz:

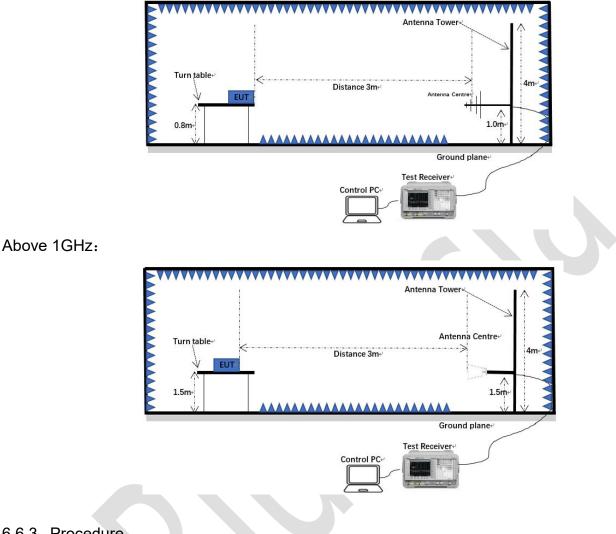


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30MHz-1GHz:



#### 6.6.3 Procedure

- a) 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 b) 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 c) 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 d) 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 e) tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was

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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.

#### Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)

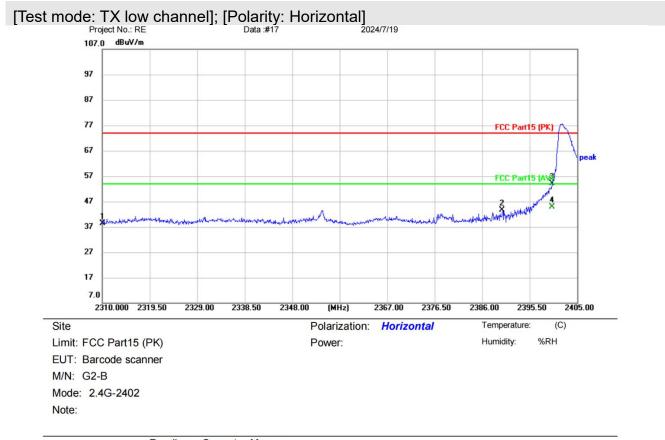
Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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#### 6.6.4 Test data



No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	<b>41.34</b>	-2.89	38.45	74.00	-35.55	peak		
2		2390.000	46.21	-2.70	43.51	74.00	-30.49	peak		
3		2400.000	56.75	-2.67	54.08	74.00	-19.92	peak		
4	*	2400.000	47.51	-2.67	44.84	54.00	-9.16	AVG		

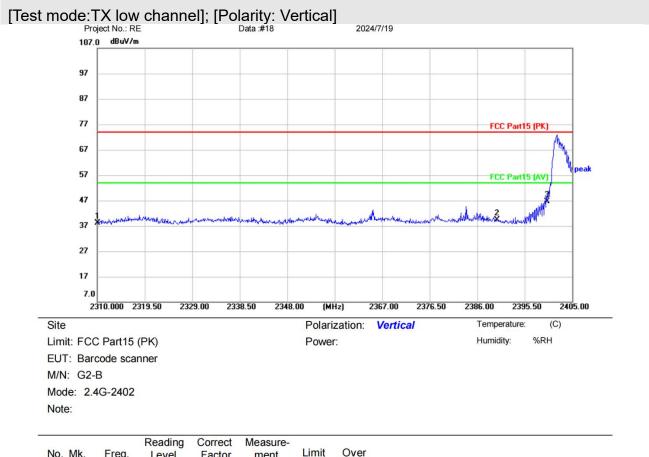
\*:Maximum data x:Over limit !:over margin

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Mk.	Freq.	Level	Factor	ment	Limit	Over			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
:	2310.000	41.04	-2.89	38.15	74.00	-35.85	peak		
;	2390.000	42.06	-2.70	39.36	74.00	-34.64	peak		-
*	2400.000	49.23	-2.67	46.56	74.00	-27.44	peak		
			MHz     dBuV       2310.000     41.04       2390.000     42.06	MHz     dBuV     dB       2310.000     41.04     -2.89       2390.000     42.06     -2.70	MHz     dBuV     dB     dBuV/m       2310.000     41.04     -2.89     38.15       2390.000     42.06     -2.70     39.36	MHz     dBuV     dB     dBuV/m     dBuV/m       2310.000     41.04     -2.89     38.15     74.00       2390.000     42.06     -2.70     39.36     74.00	MHz     dBuV     dB     dBuV/m     dBuV/m     dB       2310.000     41.04     -2.89     38.15     74.00     -35.85       2390.000     42.06     -2.70     39.36     74.00     -34.64	MHz     dBuV     dB     dBuV/m     dBuV/m     dB     Detector       2310.000     41.04     -2.89     38.15     74.00     -35.85     peak       2390.000     42.06     -2.70     39.36     74.00     -34.64     peak	MHz     dBuV     dB     dBuV/m     dBuV/m     dB     Detector     Comment       2310.000     41.04     -2.89     38.15     74.00     -35.85     peak       2390.000     42.06     -2.70     39.36     74.00     -34.64     peak

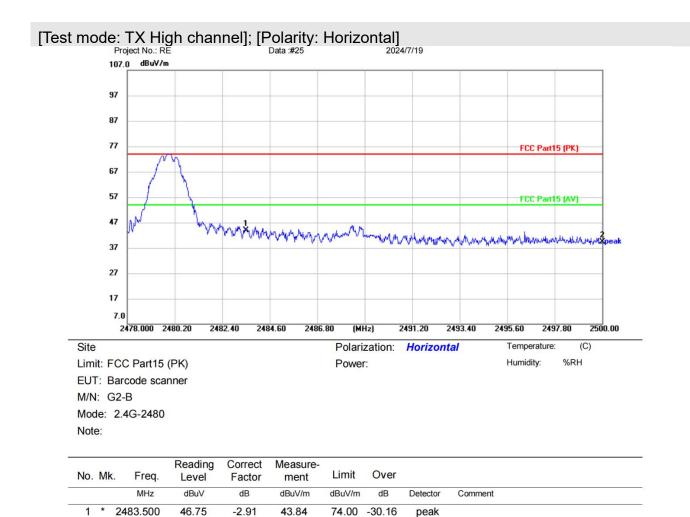
\*:Maximum data x:Over limit !:over margin

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

42.48

-3.00

39.48

74.00 -34.52

peak

Reference Only

**Test Result: Pass** 

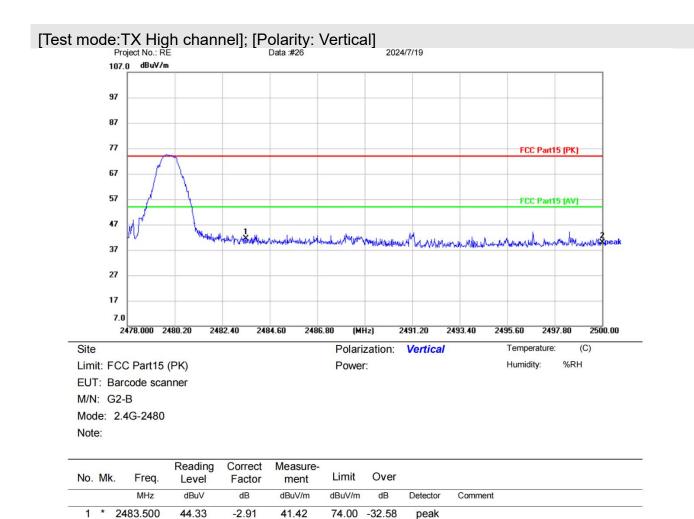
2

2500.000

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

42.86

-3.00

39.86

74.00 -34.14

peak

Reference Only

**Test Result: Pass** 

2

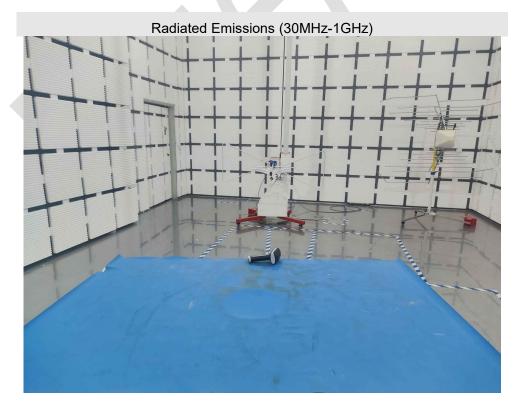
2500.000

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# 7 Appendix A photographs of test setup





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# 8 Appendix B: photographs of EUT

Reference to the test report no. BLA-EMC-202404-A6801

### ----END OF REPORT----

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