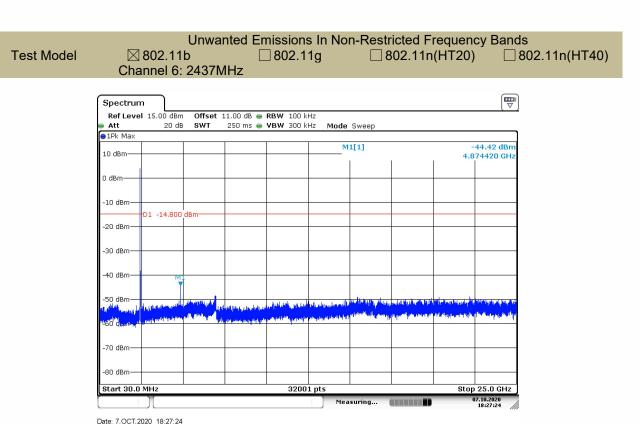
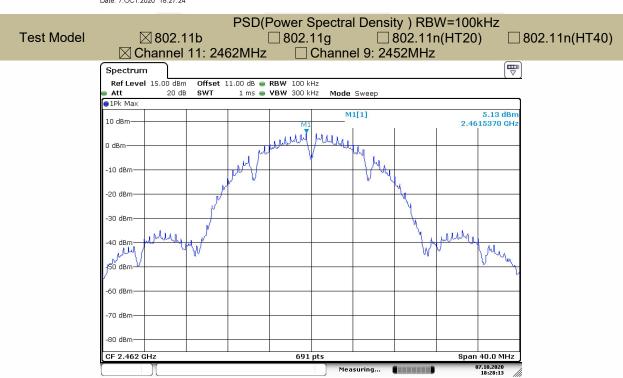


Date: 7.OCT.2020 18:26:51



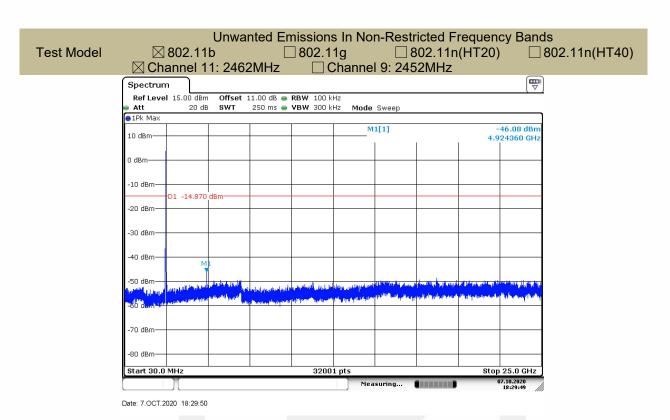


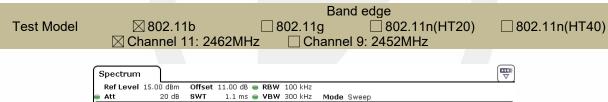


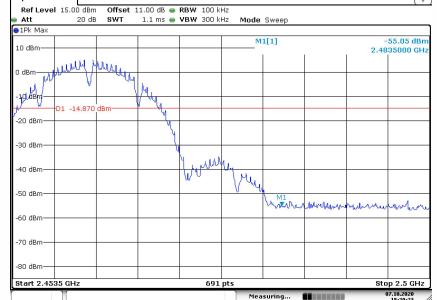
Date: 7.OCT.2020 18:28:13

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Date: 7.OCT.2020 18:29:23



8.5 RADIATED SPURIOUS EMISSION

8.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02

8.5.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part15.205, Restricted bands

7 tooording to 1 00 1 dit 10.	Loo, recentored barrae		
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part15.205,the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

8.5.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

8.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \ge 1$ GHz(1GHz to 25GHz), 100 kHz for f < 1 GHz(30MHz to 1GHz), 200Hz for f < 150KHz (9KHz to 150KHz), 9KHz for f < 30MHz(150KHz to 30KHz)

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold



Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

8.5.5 Test Results

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Spurious Emission below 30MHz(9KHz to 30MHz)

Freq. (MHz)	Ant.Pol.		ssion BuV/m)	Limit 3m	(dBuV/m)	Over(dB)	
(IVIHZ)	H/V	PK `	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor



- Spurious Emission Above 1GHz(1GHz to 25GHz)
- All antenna modes 2.4G 802.11b/g/n have been tested, and the worst result recorded was report as below:

Test mode:	802.1	1 b	Frequ	ency:	Channe	l 1: 2412MHz	Z
Freq.	Ant.Pol.		ission dBuV/m)	Limit 3m	(dBuV/m)	Ove	er(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV
4825.00	V	49.02	45.67	74	54	-24.98	-8.33
10851.50	V	55.96	40.00	74	54	-18.04	-14.00
17984.70	V	66.27	42.56	74	54	-7.73	-11.44
4824.15	Н	48.91	44.57	74	54	-25.09	-9.43
11194.90	Н	55.66	40.68	74	54	-18.34	-13.32
17955.80	Н	65.63	43.02	74	54	-8.37	-10.98

Test mode:	802.	11 b	Frequ	ency:	Channe	el 6: 2437MH:	Z
Freq. (MHz)	Ant.Pol.		ssion BuV/m)	Limit 3m((dBuV/m)	Ove	er(dB)
(1011 12)	H/V	PK	AV	PK	AV	PK	AV
4873.45	V	48.63	45.28	74	54	-25.37	-8.72
10937.35	V	56.36	40.67	74	54	-17.64	-13.33
17955.80	V	65.84	42.55	74	54	-8.16	-11.45
6637.20	Н	50.68	37.65	74	54	-23.32	-16.35
11009.60	Н	56.64	39.68	74	54	-17.36	-14.32
17991.50	Н	65.75	42.76	74	54	-8.25	-11.24

Test mode:	802.1°	1 b	Frequ	ency:	C	hannel 11: 24	462MHz
Freq.	Ant.Pol.		ission dBuV/m)	Limit 3m	(dBuV/m)	Ove	er(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV
4986.50	V	50.86	45.74	74	54	-23.14	-8.26
11767.80	V	56.20	40.22	74	54	-17.80	-13.78
17993.20	V	65.40	43.24	74	54	-8.60	-10.76
7171.85	Н	51.15	38.54	74	54	-22.85	-15.46
11014.70	Н	56.36	40.22	74	54	-17.64	-13.78
17985.55	Н	65.52	42.58	74	54	-8.48	-11.42

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor +Cable Loss.

- (3) Correct Factor= Ant_F + Cab_L Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz All antenna modes 2.4G 802.11b/g/n have been tested, and the worst result recorded was report as below:

Test mode: 802.11 b Frequency: Channel 1: 2412MHz

	Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
Γ	2389.77	Н	55.38	74	41.47	54
Ī	2387.83	V	51.36	74	38.67	54

Test mode: 802.11 b Frequency: Channel 11: 2462MHz

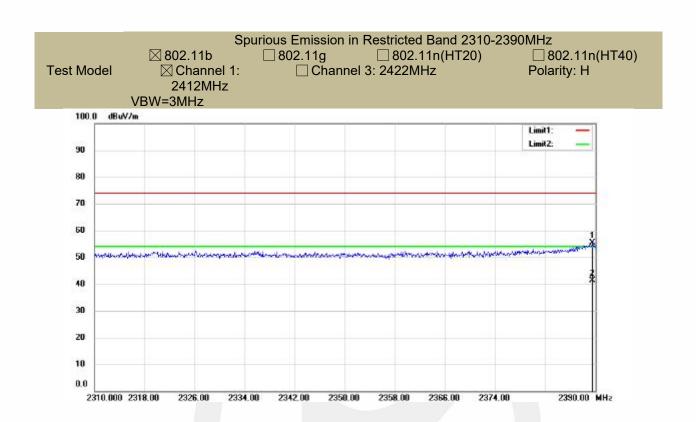
	Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
Ī	2484.65	Н	58.79	74	45.67	54
Ī	2483.75	V	52.05	74	40.46	54

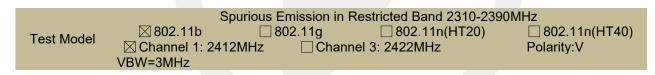
Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).

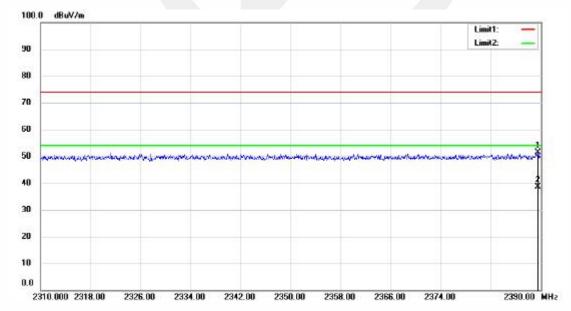
- (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
- (3) Correct Factor= Ant_F + Cab_L Preamp
- (4) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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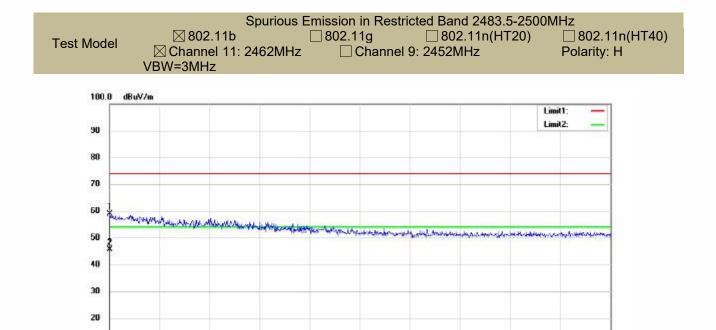


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2496.70

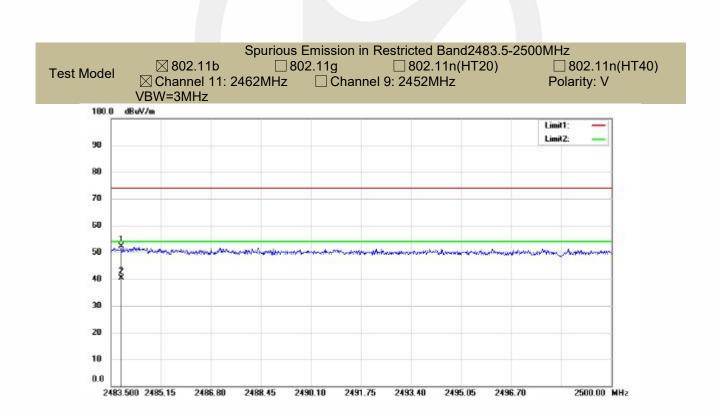
2500.00 MHz



10 0.0

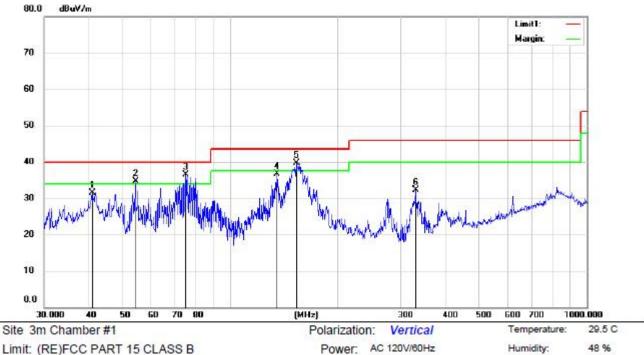
2483.500 2485.15

2486.80





- Spurious Emission below 1GHz (30MHz to 1GHz)
- All antenna modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11b recorded was report as below:

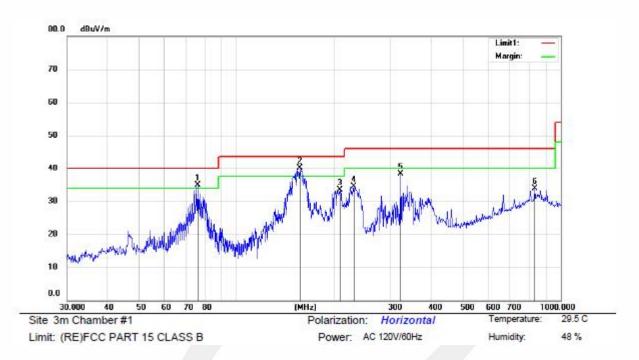


Limit: (RE)FCC PART 15 CLASS B

Mode: WIFI2.4G 2412MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		40.8624	44.44	-12.88	31.56	40.00	-8.44	QP			
2	İ	54.1660	46.59	-11.96	34.63	40.00	-5.37	QP			
3	*	75.0176	50.71	-14.19	36.52	40.00	-3.48	QP			
4		134.7951	50.82	-14.20	36.62	43.50	-6.88	QP			
5	Į.	152.9990	53.64	-13.85	39.79	43.50	-3.71	QP			
6		330.4843	40.49	-8.25	32.24	46.00	-13.76	QP			

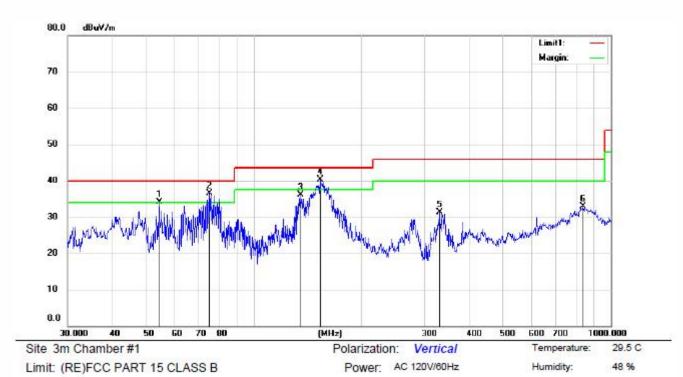




Mode:WIFI2.4G 2412MHz

Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
İ	75.9772	49.26	-14.34	34.92	40.00	-5.08	QP			
*	156.5950	53.98	-13.91	40.07	43.50	-3.43	QP			
	207.8500	47.02	-13.55	33.47	43.50	-10.03	QP			
	229.7960	47.19	-12.62	34.57	46.00	-11.43	QP			
	320.6388	47.09	-8.72	38.37	46.00	-7.63	QP			
	832.5870	31.30	2.54	33.84	46.00	-12.16	QP			
	!	MHz ! 75.9772 * 156.5950 207.8500 229.7960 320.6388	Mk. Freq. Level MHz dBuV ! 75.9772 49.26 * 156.5950 53.98 207.8500 47.02 229.7960 47.19 320.6388 47.09	Mk. Freq. Level Factor MHz dBuV dB ! 75.9772 49.26 -14.34 * 156.5950 53.98 -13.91 207.8500 47.02 -13.55 229.7960 47.19 -12.62 320.6388 47.09 -8.72	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m ! 75.9772 49.26 -14.34 34.92 * 156.5950 53.98 -13.91 40.07 207.8500 47.02 -13.55 33.47 229.7960 47.19 -12.62 34.57 320.6388 47.09 -8.72 38.37	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m dBuV/m ! 75.9772 49.26 -14.34 34.92 40.00 * 156.5950 53.98 -13.91 40.07 43.50 207.8500 47.02 -13.55 33.47 43.50 229.7960 47.19 -12.62 34.57 46.00 320.6388 47.09 -8.72 38.37 46.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB dB ! 75.9772 49.26 -14.34 34.92 40.00 -5.08 * 156.5950 53.98 -13.91 40.07 43.50 -3.43 207.8500 47.02 -13.55 33.47 43.50 -10.03 229.7960 47.19 -12.62 34.57 46.00 -11.43 320.6388 47.09 -8.72 38.37 46.00 -7.63	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector ! 75.9772 49.26 -14.34 34.92 40.00 -5.08 QP * 156.5950 53.98 -13.91 40.07 43.50 -3.43 QP 207.8500 47.02 -13.55 33.47 43.50 -10.03 QP 229.7960 47.19 -12.62 34.57 46.00 -11.43 QP 320.6388 47.09 -8.72 38.37 46.00 -7.63 QP	Mk. Freq. Level Factor ment Limit Over Height MHz dBuV dB dBuV/m dBuV/m dB Detector cm ! 75.9772 49.26 -14.34 34.92 40.00 -5.08 QP * 156.5950 53.98 -13.91 40.07 43.50 -3.43 QP 207.8500 47.02 -13.55 33.47 43.50 -10.03 QP 229.7960 47.19 -12.62 34.57 46.00 -11.43 QP 320.6388 47.09 -8.72 38.37 46.00 -7.63 QP	Mk. Freq. Level Factor ment Limit Over Height Degree MHz dBuV dB dBuV/m dB Detector cm degree ! 75.9772 49.26 -14.34 34.92 40.00 -5.08 QP * 156.5950 53.98 -13.91 40.07 43.50 -3.43 QP 207.8500 47.02 -13.55 33.47 43.50 -10.03 QP 229.7960 47.19 -12.62 34.57 46.00 -11.43 QP 320.6388 47.09 -8.72 38.37 46.00 -7.63 QP

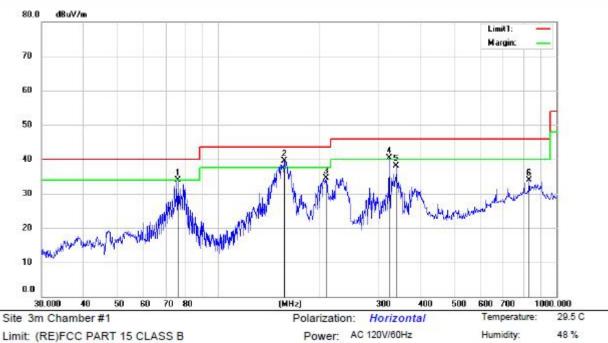




Mode: WIFI2.4G 2437MHz

No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	-	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	ļ	54.1660	46.09	-11.96	34.13	40.00	-5.87	QP	,		
2	1	75.0176	50.71	-14.19	36.52	40.00	-3.48	QP			
3	8	134.7950	50.32	-14.20	36.12	43.50	-7.38	QP			
4	*	152.9990	54.14	-13.85	40.29	43.50	-3.21	QP			
5		330.4843	39.49	-8.25	31.24	46.00	-14.76	QP			
6		835.1453	30.23	2.66	32.89	46.00	-13.11	QP			



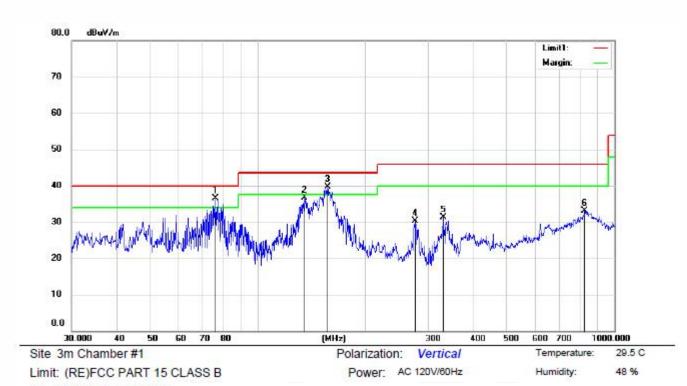


Limit: (RE)FCC PART 15 CLASS B

Mode:WIFI2.4G 2437MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		75.9772	48.26	-14.34	33.92	40.00	-6.08	QP			
2	*	156.5950	53.48	-13.91	39.57	43.50	-3.93	QP			
3		207.8500	48.02	-13.55	34.47	43.50	-9.03	QP			
4	Į.	320.6388	49.09	-8.72	40.37	46.00	-5.63	QP			
5		336.0350	46.18	-7.98	38.20	46.00	-7.80	QP			
6		832.5870	31.30	2.54	33.84	46.00	-12.16	QP			





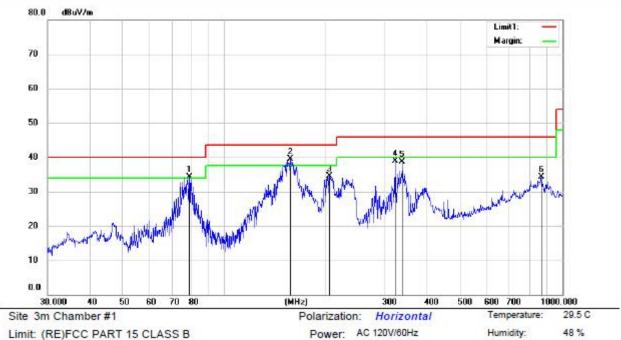
Mode: WIFI2.4G 2462MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	75.9771	50.84	-14.34	36.50	40.00	-3.50	QP			
2		134.7951	50.82	-14.20	36.62	43.50	-6.88	QP			
3	1	156.5950	53.62	-13.91	39.71	43.50	-3.79	QP			
4		275.8815	40.35	-10.07	30.28	46.00	-15.72	QP			
5		330.4843	39.49	-8.25	31.24	46.00	-14.76	QP			
6		826.0438	30.80	2.26	33.06	46.00	-12.94	QP			



Humidity:

48 %



Limit: (RE)FCC PART 15 CLASS B

Mode:WIFI2.4G 2462MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	İ	78.7578	49.00	-14.74	34.26	40.00	-5.74	QP			
2	*	156.5950	53.48	-13.91	39.57	43.50	-3.93	QP			
3		204.2376	48.18	-13.68	34.50	43.50	-9.00	QP			
4		320.6388	47.59	-8.72	38.87	46.00	-7.13	QP			
5		336.0350	46.68	-7.98	38.70	46.00	-7.30	QP			
6		866.4675	32.24	2.04	34.28	46.00	-11.72	QP			



8.6 CONDUCTED EMISSIONS TEST

8.6.1 Applicable Standard

According to FCC Part 15.207(a)

8.6.2 Conformance Limit

Conducted Emission Limit

Frequency(MHz)	Quasi-peak	Average		
0.15-0.5	66-56	56-46		
0.5-5.0	56	46		
5.0-30.0	60	50		

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.6.3 Test Configuration

Test according to clause 7.3conducted emission test setup

8.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

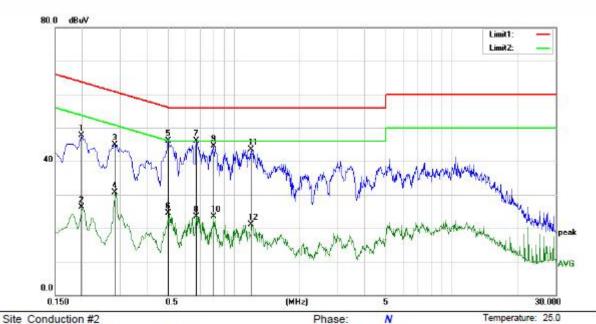
8.6.5 Test Results

Pass

The 120V &240V voltage have been tested, and the worst result recorded was report as below:

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Power: AC 120V/60Hz

Humidity:

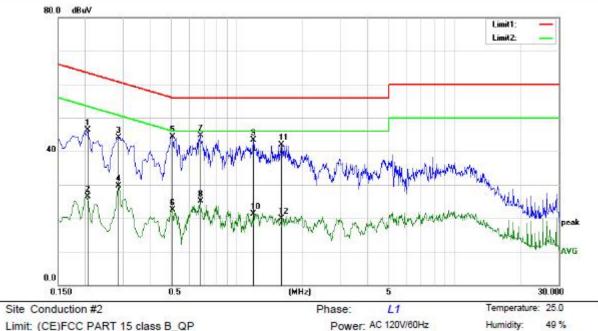
49 %

Limit: (CE)FCC PART 15 class B_QP

Mode: USB PLAY+LIGHT

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1980	37.26	10.43	47.69	63.69	-16.00	QP	
2		0.1980	15.91	10.43	26.34	53.69	-27.35	AVG	
3		0.2820	34.51	10.40	44.91	60.76	-15.85	QP	
4		0.2820	20.30	10.40	30.70	50.76	-20.06	AVG	
5		0.4980	35.69	10.35	46.04	56.03	-9.99	QP	
6		0.4980	14.12	10.35	24.47	46.03	-21.56	AVG	
7	*	0.6700	35.83	10.35	46.18	56.00	-9.82	QP	
8		0.6700	13.09	10.35	23.44	46.00	-22.56	AVG	
9		0.8020	34.06	10.37	44.43	56.00	-11.57	QP	
10		0.8020	13.06	10.37	23.43	46.00	-22.57	AVG	
11		1.1940	33.12	10.40	43.52	56.00	-12.48	QP	
12		1.1940	10.69	10.40	21.09	46.00	-24.91	AVG	





Limit: (CE)FCC PART 15 class B_QP

Mode: USB PLAY+LIGHT

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2060	35.88	10.43	46.31	63.37	-17.06	QP	
2		0.2060	16.16	10.43	26.59	53.37	-26.78	AVG	
3		0.2860	33.64	10.40	44.04	60.64	-16.60	QP	
4		0.2860	19.38	10.40	29.78	50.64	-20.86	AVG	
5		0.5060	33.89	10.35	44.24	56.00	-11.76	QP	
6		0.5060	12.17	10.35	22.52	46.00	-23.48	AVG	
7	*	0.6780	34.29	10.35	44.64	56.00	-11.36	QP	
8		0.6780	14.75	10.35	25.10	46.00	-20.90	AVG	
9		1.1900	32.84	10.40	43.24	56.00	-12.76	QP	
10		1.1900	11.00	10.40	21.40	46.00	-24.60	AVG	
11		1.5980	31.55	10.36	41.91	56.00	-14.09	QP	
12		1.5980	9.49	10.36	19.85	46.00	-26.15	AVG	



8.7 ANTENNA APPLICATION

8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217,§15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.7.2	Result
PASS.	
•	The EUT has 1 antennas: PCB Antennna for WIFI 2.4G, the antenna gain is 1.5 dBi,
Note:	Antenna uses a permanently attached antenna which is not replaceable.
	☐ Not using a standard antenna jack or electrical connector for antenna replacement
	☐ The antenna has to be professionally installed (please provide method of installation)
	Which in accordance to section 15 203, please refer to the internal photos

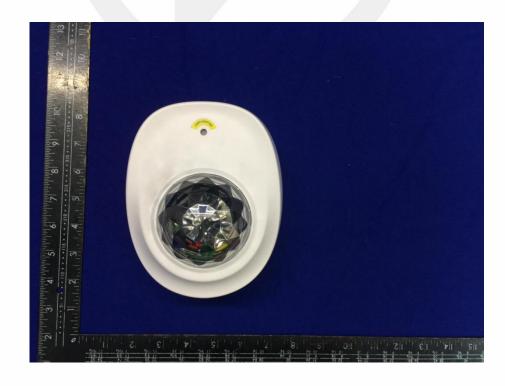


8.8 PHOTOGRAPHS OF EUT

EUT View 1



EUT View 2





EUT View 3

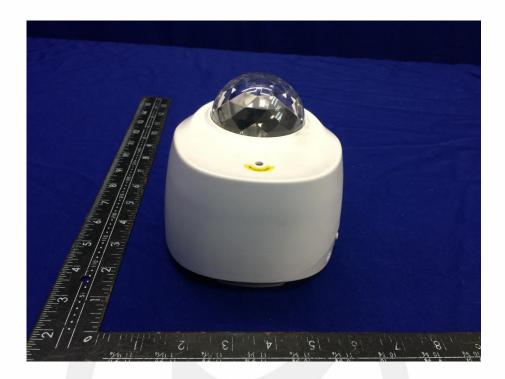


EUT View 4

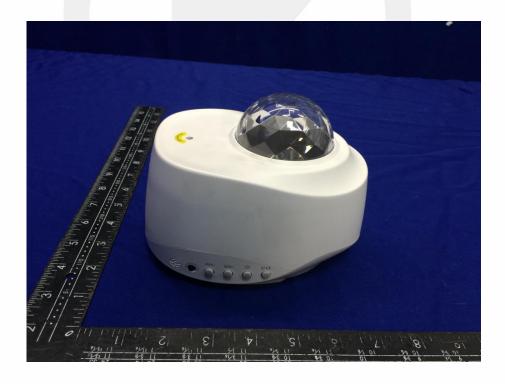




EUT View 5

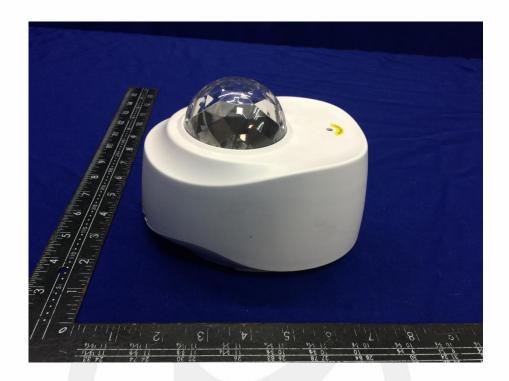


EUT View 6

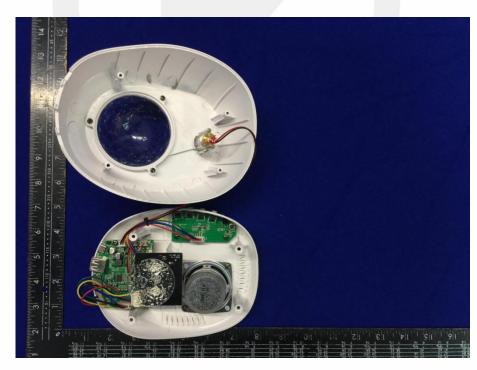




EUT View 7

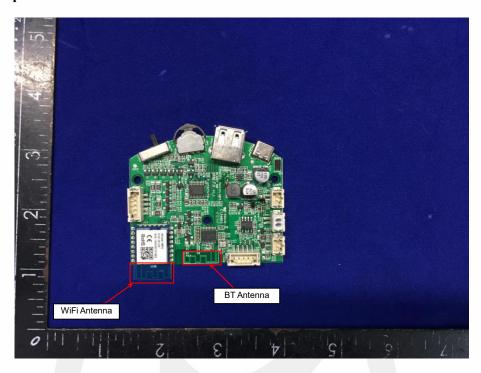


EUT Housing and Board View 1

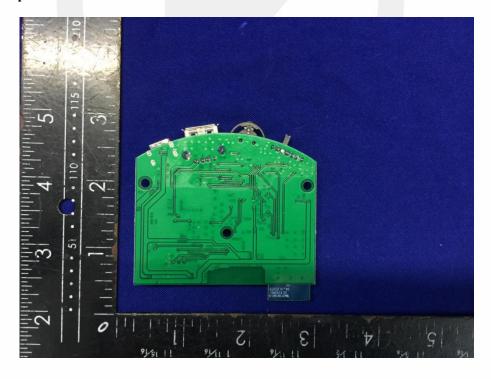




Solder Board-Component View 1

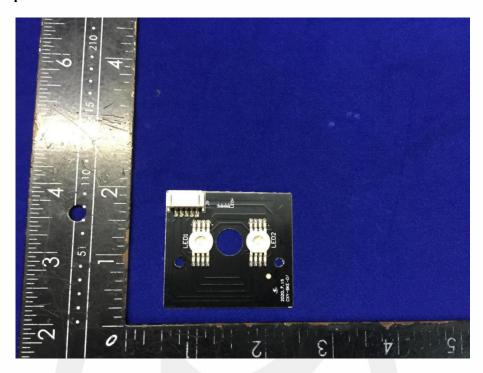


Solder Board-Component View 2

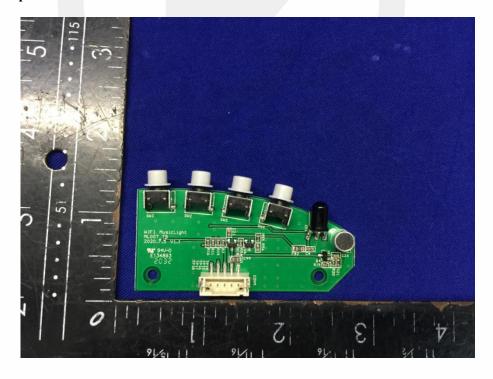




Solder Board-Component View 3

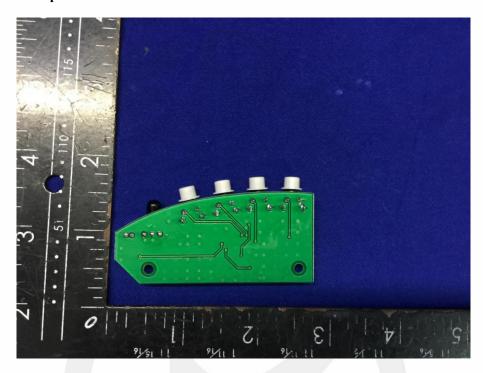


Solder Board-Component View 4





Solder Board-Component View 5





Detail of factor for radiated emission

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	1	20.8
1	20.9	0.15	1	21.05
10	20.1	0.28	1	20.38
30	18.8	0.45	1	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

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