

Report Seal

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TEST REPORT

Product : LED Floodlight

Trade mark : N/A

Model/Type reference : LAW25E,LAW10E

Test Model No. : LAW25E

Serial Number : N/A

Report Number : EED32N81243702

FCC ID : 2AT7E-LAW25E

Date of Issue : Apr. 07, 2022

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

Shen Zhen Shi Zhi Hui Duo Ke Ji You Xian Gong Si Qian Wan yi lu 1 hao A dong 201 shi, qian hai shen gang he zuo qu, shen zhen,guang dong, China 518000

Prepared by:

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2 Version

Version No.	Date	6	Description	9
00	Apr. 07, 2022		Original	
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3 Test Summary

Test Item	Test Requirement	Result	
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS	
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	PASS	
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	Note	
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	Note	
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	Note	
Band edge measurements	47 CFR Part 15 Subpart C Section 15.247(d)	Note	
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	Note	
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS	

Remark:

1.Note:Refer to the report of 709502102915-00,

This test report (Ref. No.:EED32N81243701) is only valid with the original test report

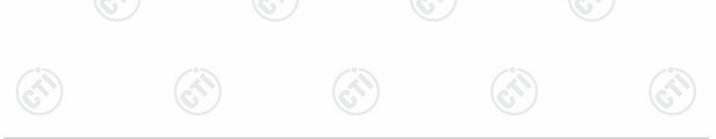
(Ref. No.: 709502102915-00).

Review this report and original report, the module without changes in circuit and product function, therefore in this report the Radiated Spurious Emission were retested and shown the data in this report, other tests data please refer to original report No.709502102915-00.

2. Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

3.Model No.:LAW25E,LAW10E

Only the model LAW25EI was tested. Their electrical circuit design, layout, components used and internal wiring are identical, all use the same linear constant current IC, the same auxiliary power supply, the same WiFi module and the same antenna. The only difference is the difference in the number of linear ICs and LED chips. The greater the power, the more ICs and LED chips used, and the larger the size of the aluminum subst rate is different.







General Information

4.1 Client Information

Applicant:	Shen Zhen Shi Zhi Hui Duo Ke Ji You Xian Gong Si
Address of Applicant:	Qian Wan yi lu 1 hao A dong 201 shi, qian hai shen gang he zuo qu, shen zhen,guang dong, China 518000
Manufacturer:	Shen Zhen Shi Zhi Hui Duo Ke Ji You Xian Gong Si
Address of Manufacturer:	Qian Wan yi lu 1 hao A dong 201 shi, qian hai shen gang he zuo qu, shen zhen,guang dong, China 518000
Factory:	Shen Zhen Shi Zhi Hui Duo Ke Ji You Xian Gong Si
Address of Factory:	Qian Wan yi lu 1 hao A dong 201 shi, qian hai shen gang he zuo qu, shen zhen,guang dong, China 518000

4.2 General Description of EUT

Product Name:	LED Floodlight	
Model No.:	LAW25E, LAW10E	
Test Model No.:	LAW25E	(67)
Trade mark:	N/A	
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location	
Operation Frequency:	IEEE 802.11b/g/n(HT20 and HT40): 2412MHz to 2462MHz	
Modulation Type:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40): OFDM (64QAM, 16QAM,QPSK,BPSK)	
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels	
Channel Separation:	5MHz	
Antenna Type:	PCB antenna	
Antenna Gain:	5dBi	
Power Supply:	AC 100-120V~60Hz	
Test Voltage:	AC 110V	
Sample Received Date:	Feb. 24, 2022	/°>
Sample tested Date:	Feb. 25, 2022 to Mar. 31, 2022	(6.17)















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- C	_	700	_	- 12		- CO	
Operation	Frequency ea	ch of channe	el (802.11b/g/n	HT20)	°)	(62)	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		(6)
Operation	Frequency ea	ch of channe	el (802.11n HT	40)			
Channel	l Frequ	ency	Channel	Frequenc	cy Char	nnel F	requency
3	2422	MHz	6	2437MH	z 9	130	2452MHz
4	2427	MHz	7	2442MH	z		
5	2432	MHz	8	2447MH	z		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/g/n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The highest channel	2462MHz

802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The highest channel	2452MHz





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4.3 Test Configuration

EUT Test Software Setti	ngs:		
Software:	Wifi Test Tool v1.6.0	-0-	
EUT Power Grade:	Default	(41)	(41)
Use test software to set th	e lowest frequency, the middle frequen	cy and the highest frequenc	v keen

Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

Test Mode:

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

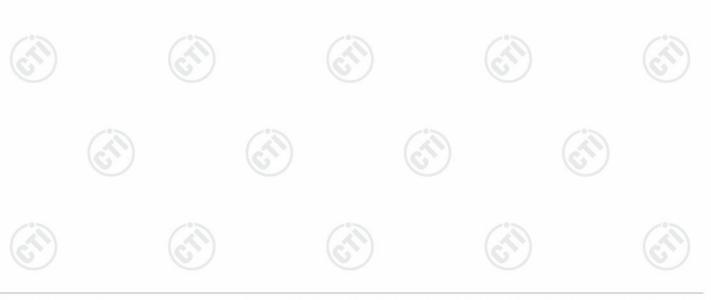
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

	Mode	Data rate
Ī	802.11b	1Mbps
9	802.11g	6Mbps
٩	802.11n(HT20)	6.5Mbps
9	802.11n(HT40)	13.5Mbps

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(HT20) and 6.5Mbps for 802.11n(HT40).

4.4 Test Environment

Operating Environment	:				
Radiated Spurious Emi	Radiated Spurious Emissions:				
Temperature:	22~25.0 °C				
Humidity:	50~55 % RH	(6,1)	(0,)		
Atmospheric Pressure:	1010mbar				
Conducted Emissions:					
Temperature:	22~25.0 °C	*> /*>			
Humidity:	50~55 % RH		(4		
Atmospheric Pressure:	1010mbar		/		





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4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1	sociated ment name	Manufacture	model	S/N serial number	Supplied by	Certification
AE1	Netbook	DELL	Latitude 3490	1	СТІ	FCC&CE
AE2	Phone	XIAOMI	MI 6X	1	CTI	FCC&CE

4.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

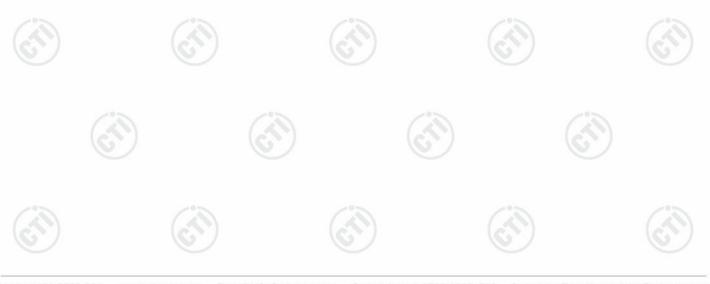
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

4.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
	DE power conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	7.9 x 10 ⁻⁸ 0.46dB (30MHz-1GHz) 0.55dB (1GHz-18GHz) 3.3dB (9kHz-30MHz) 4.3dB (30MHz-1GHz) 4.5dB (1GHz-18GHz) 3.4dB (18GHz-40GHz) 3.5dB (9kHz to 150kHz)
		3.3dB (9kHz-30MHz)
3	Padiated Spurious emission test	4.3dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)
	(6,5)	7.9 x 10 ⁻⁸ 0.46dB (30MHz-1GHz) 0.55dB (1GHz-18GHz) 3.3dB (9kHz-30MHz) 4.3dB (30MHz-1GHz) 4.5dB (1GHz-18GHz) 3.4dB (18GHz-40GHz) 3.5dB (9kHz to 150kHz) 3.1dB (150kHz to 30MHz) 0.64°C 3.8%
4	Conduction emission	3.5dB (9kHz to 150kHz)
4	Conduction emission	3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%



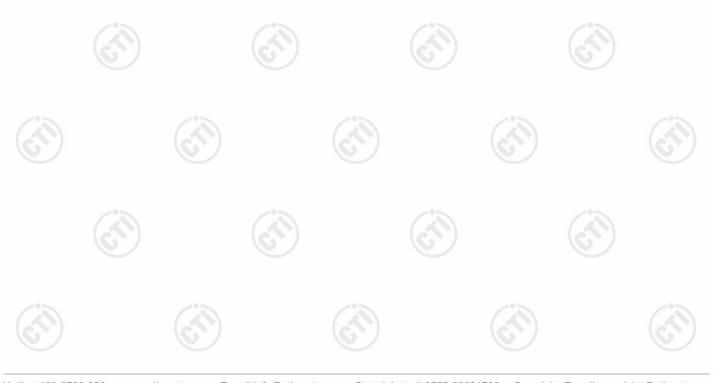


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5 Equipment List

	Conducted disturbance Test											
Equipment	Manufacturer	Model No.	Serial Number	Cal. date Cal. Due date (mm-dd-yyyy)								
Receiver	R&S	ESCI	100435	04-15-2021	04-14-2022							
Temperature/ Humidity Indicator	Defu	TH128	1	<u></u>								
LISN	R&S	ENV216	100098	03-04-2021 03-01-2022	03-03-2022 02-28-2023							
Barometer	changchun	DYM3	1188		72°							

	3M Semi-ar	echoic Chamber (2)	- Radiated distu	rbance Test		
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date	
3M Chamber & Accessory Equipment	TDK	SAC-3	SAC-3		05/23/2022	
Receiver	R&S	ESCI7	100938-003 10/14/2021		10/13/2022	
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/23/2019	05/22/2022	
Multi device Controller	maturo	NCD/070/10711112	(c/ 1 2)	(63	·	
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024	
Spectrum Analyzer	R&S	FSP40	100416	04/29/2021	04/28/2022	
Microwave Preamplifier	Agilent	8449B	3008A02425	06/23/2021	06/22/2022	





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			_00		
		3M full-anechoi	c Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166		
Receiver	Keysight	N9038A	MY57290136	03-04-2021 03-01-2022	03-03-2022 02-28-2023
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-04-2021 02-23-2022	03-03-2022 02-22-2023
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-04-2021 02-23-2022	03-03-2022 02-22-2023
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021	05-19-2022
Preamplifier	EMCI	EMC001330	980563	04-15-2021	04-14-2022
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022
Communication test set	R&S	CMW500	102898	12-24-2021	12-23-2022
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022
Fully Anechoic Chamber	TDK	FAC-3		01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001		
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	(c/1)	((1))-
Cable line	Times	SFT205-NMSM-2.50M	394812-0003		
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	/*:	
Cable line	Times	EMC104-NMNM-1000	SN160710	(61)
Cable line	Times	SFT205-NMSM-3.00M	394813-0001		
Cable line	Times	SFT205-NMNM-1.50M	381964-0001		
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	(T)	-(ci)
Cable line	Times	HF160-KMKM-3.00M	393493-0001		













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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

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, 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna: Please see Internal photos

The antenna is Internal antenna. The best case gain of the antenna is 5dBi.





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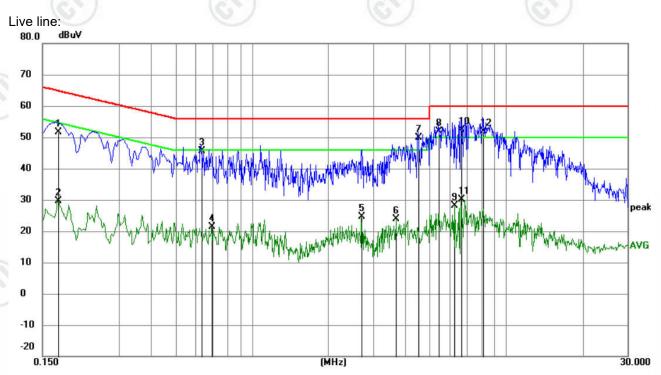
6.2 AC Power Line Conducted Emissions

	1.25 % 1	1/0.76		1.0 % 1				
	Test Requirement:	47 CFR Part 15C Section 15.20	07					
	Test Method:	ANSI C63.10: 2013						
	Test Frequency Range:							
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sw	veep time=auto					
	Limit:	Frequency range (MHz)	Limit (dl	3uV)				
N		Frequency range (MHZ)	Quasi-peak	Average				
		0.15-0.5	66 to 56*	56 to 46*				
		0.5-5	56	46				
		5-30	60	50				
		* Decreases with the logarithm	of the frequency.	-0-				
	Test Setup:	Shielding Room EUT AC Mains LISN1	AE LISN2 → AC Main Ground Reference Plane	Test Receiver				
	Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were 						
		connected to a second LISI plane in the same way as multiple socket outlet strip varingle LISN provided the ration of the tabletop EUT was placed on the horizontal ground reference plane. An placed on the horizontal ground the EUT shall be 0.4 m for vertical ground reference reference plane. The LISN unit under test and bond	s the LISN 1 for the was used to connect meting of the LISN was not be upon a non-metal and for floor-standing around reference plane. In a vertical ground reference plane was bonded to 1 was placed 0.8 metical ground 1 was placed 0.8 metical ground to 1 was pl	unit being measured. A nultiple power cables to a put exceeded. It table 0.8m above the rangement, the EUT was erence plane. The rear of the horizontal ground from the boundary of the				
	Took Mada	mounted on top of the grou the closest points of the LI and associated equipment of 5) In order to find the maximu and all of the interface cab ANSI C63.10: 2013 on cond	nd reference plane. The ISN 1 and the EUT. A was at least 0.8 m from m emission, the relativeles must be changed aducted measurement.	nis distance was betweer Il other units of the EUT In the LISN 2. The positions of equipmen according to				
	Test Mode:	All modes were tested, only the	e worst case was recor	aea in the report.				
	Test Voltage:	AC 120V/60Hz						
	Test Results:	Pass						





Measurement Data



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1725	41.68	9.87	51.55	64.84	-13.29	QP	
2		0.1725	19.86	9.87	29.73	54.84	-25.11	AVG	
3		0.6315	35.68	10.01	45.69	56.00	-10.31	QP	
4		0.6945	11.53	9.89	21.42	46.00	-24.58	AVG	
5		2.7060	14.72	9.79	24.51	46.00	-21.49	AVG	
6		3.6915	14.09	9.78	23.87	46.00	-22.13	AVG	
7	*	4.5150	40.11	9.78	49.89	56.00	-6.11	QP	
8		5.4375	42.18	9.78	51.96	60.00	-8.04	QP	
9		6.2790	18.45	9.79	28.24	50.00	-21.76	AVG	
10		6.6435	42.57	9.79	52.36	60.00	-7.64	QP	
11		6.6435	20.41	9.79	30.20	50.00	-19.80	AVG	
12		8.1465	42.20	9.79	51.99	60.00	-8.01	QP	

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.





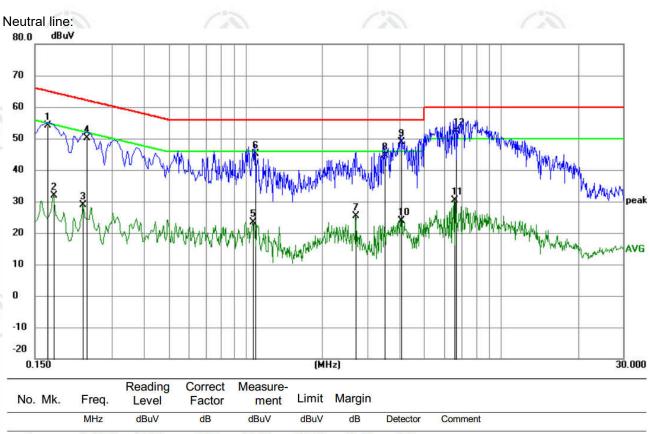












No.	Mk.	Freq.	Level	Factor	ment	Limit	Margin		
ř.		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1680	44.34	9.87	54.21	65.06	-10.85	QP	
2		0.1770	22.01	9.87	31.88	54.63	-22.75	AVG	
3		0.2310	18.99	9.93	28.92	52.41	-23.49	AVG	
4		0.2400	40.06	9.95	50.01	62.10	-12.09	QP	
5		1.0680	13.54	9.83	23.37	46.00	-22.63	AVG	
6		1.0905	35.38	9.83	45.21	56.00	-10.79	QP	
7		2.7060	15.67	9.79	25.46	46.00	-20.54	AVG	
8		3.5025	34.85	9.78	44.63	56.00	-11.37	QP	
9	*	4.0515	39.18	9.78	48.96	56.00	-7.04	QP	
10		4.0515	14.16	9.78	23.94	46.00	-22.06	AVG	
11		6.5715	20.66	9.79	30.45	50.00	-19.55	AVG	
12		6.6390	42.57	9.79	52.36	60.00	-7.64	QP	

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.









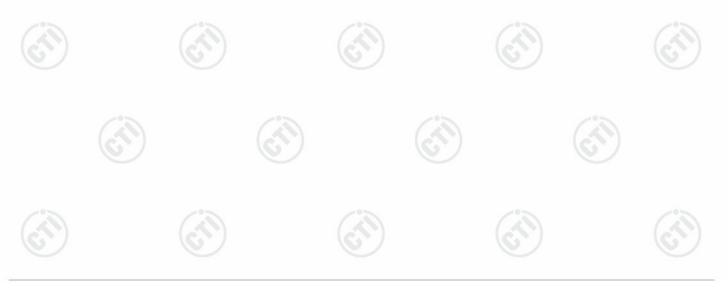






6.3 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205					
Test Method:	ANSI C63.10 2013								
Test Site:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	ber)	-51			
Receiver Setup:	Frequency	11	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MH	Average	10kHz	30kHz	Average				
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	30kHz	Quasi-peak			
	0.110MHz-0.490MH	z	Peak	10kHz	30kHz	Peak			
	0.110MHz-0.490MH	z	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	0.490MHz -30MHz			30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	100 kH	z 300kHz	Quasi-peak				
	Above 1GHz		Peak	1MHz	3MHz	Peak			
			Peak	1MHz	10kHz	Average			
Limit:	Frequency	l	eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m)			
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-/*>	300			
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	(c)	30			
	1.705MHz-30MHz		30	-		30			
	30MHz-88MHz		100	40.0	Quasi-peak	3			
	88MHz-216MHz		150	43.5	Quasi-peak	3			
	216MHz-960MHz	10	200	46.0	Quasi-peak	3			
	960MHz-1GHz		500	54.0	Quasi-peak	3			
	Above 1GHz		500	54.0	Average	3			
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.								

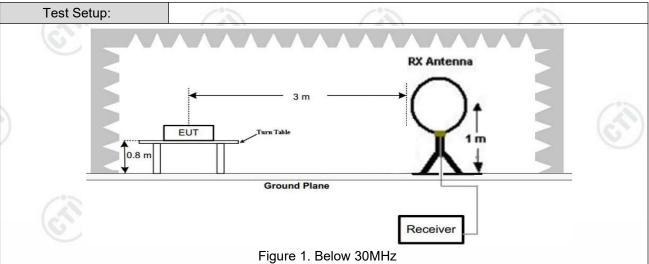


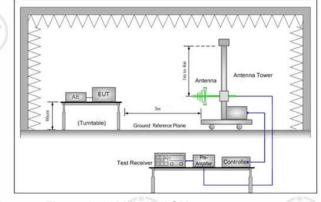






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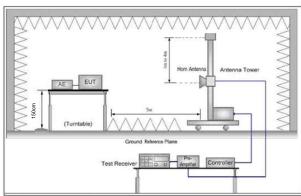


Figure 3. Above 1 GHz





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Test Procedure:	meters above	The EUT was placed on the the ground at a 3 meter se 60 degrees to determine the	mi-anechoic camber. The table
	2) Above 1G: meters above was rotated 3 radiation.	The EUT was placed on the the ground at a 3 meter se 60 degrees to determine the radiated emission test above	mi-anechoic camber. The table e position of the highest
	determined to distance, while of emissions a oriented for metal to be higher of the emission amaximum signification which maximite for maximum 1 meto 4 metal absence in the distribution of the distribution	e keeping the measuremen at each frequency of signific naximum response. The mear lower than the EUT, depend at the ennal. The final measurement zes the emissions. The mear emissions shall be restricted ove the ground or reference and each of the second of the ground of the second of the ground of the second	at the specified measurement at antenna aimed at the source cant emissions, with polarization asurement antenna may have ending on the radiation pattern of mission source for receiving the antenna elevation shall be that asurement antenna elevation at to a range of heights of from the ground plane.
	antenna, which tower. c. The antennal ground to dete	height is varied from one me ermine the maximum value d vertical polarizations of the	of a variable-height antenna eter to four meters above the
	and then the the test freque meter) and th degrees to fin	antenna was tuned to heigh ency of below 30MHz, the a e rotatable table was turneo d the maximum reading.	vas arranged to its worst case its from 1 meter to 4 meters (for intenna was tuned to heights 1 d from 0 degrees to 360
	Bandwidth wi f. If the emission limit specified EUT would be margin would average meth	th Maximum Hold Mode. n level of the EUT in peak n , then testing could be stop e reported. Otherwise the er be re-tested one by one us nod as specified and then re	node was 10dB lower than the ped and the peak values of the missions that did not have 10dB sing peak, quasi-peak or ported in a data sheet.
		in the lowest channel (2402 e Highest channel (2480MF	
	for Transmittii worst case.	ng mode, and found the X a	ned in X, Y, Z axis positioning axis positioning which it is the
		· · · · · · · · · · · · · · · · · · ·	ncies measured was complete.
Test Mode:	Refer to clause 5.	3	
Test Results:	Pass		(25)











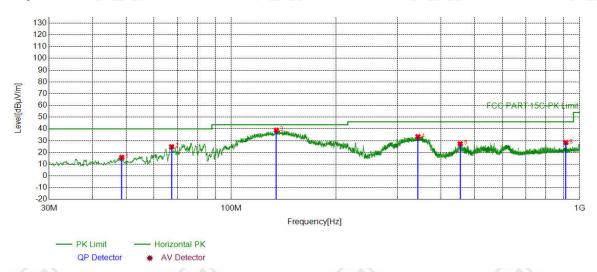




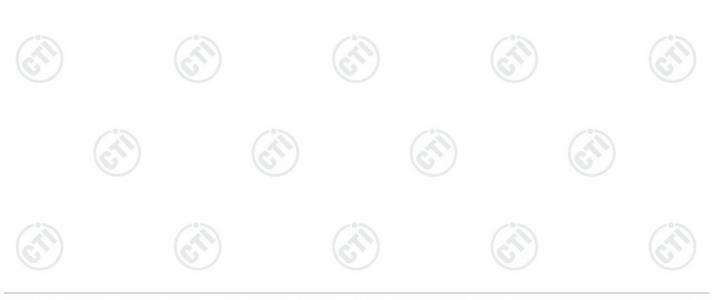
Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of 1Mbps for 802.11b was recorded in the report.

Test Graph



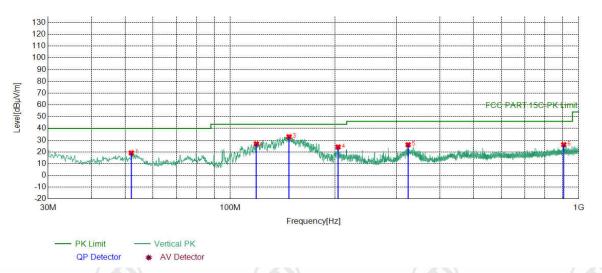
	NO	Freq.	Factor	Reading	Level	Limit	Margin [dR]	Booult	Polarity	Domork
		[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	Margin [dB]	Result	Folanty	Remark
1	1	48.5289	-17.17	32.94	15.77	40.00	24.23	PASS	Horizontal	Peak
	2	67.4457	-20.21	44.97	24.76	40.00	15.24	PASS	Horizontal	Peak
	3	134.7705	-21.79	60.74	38.95	43.50	4.55	PASS	Horizontal	Peak
	4	343.6324	-14.28	47.65	33.37	46.00	12.63	PASS	Horizontal	Peak
	5	454.2234	-11.65	38.96	27.31	46.00	18.69	PASS	Horizontal	Peak
	6	913.0793	-4.87	33.25	28.38	46.00	17.62	PASS	Horizontal	Peak



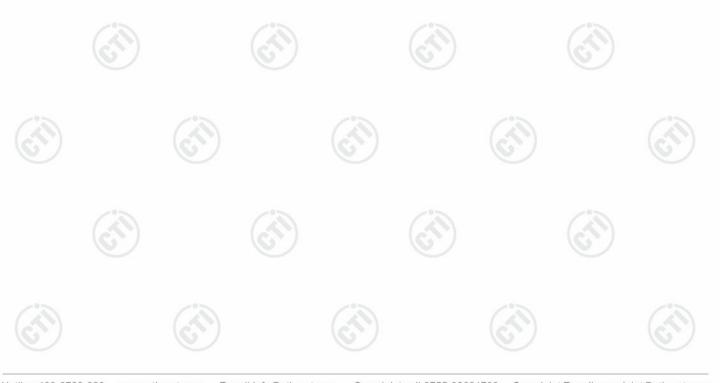




Test Graph



NO	Freq.	Factor	Reading	Level	Limit	Margin [dB]		D 1 11	
	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]		Result	Polarity	Remark
1	52.0212	-17.44	36.56	19.12	40.00	20.88	PASS	Vertical	Peak
2	118.8609	-19.88	46.73	26.85	43.50	16.65	PASS	Vertical	Peak
3	147.5758	-21.73	54.59	32.86	43.50	10.64	PASS	Vertical	Peak
4	204.0354	-17.74	41.95	24.21	43.50	19.29	PASS	Vertical	Peak
5	324.0364	-14.85	40.92	26.07	46.00	19.93	PASS	Vertical	Peak
6	906.5797	-4.93	31.12	26.19	46.00	19.81	PASS	Vertical	Peak







Radiated Spurious Emission above 1GHz:

Mode) :		802.11 b Tran	smitting		Channe	el:	2412MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1062.4062	0.89	44.91	45.80	74.00	28.20	PASS	Н	PK
2	1779.4779	3.21	41.64	44.85	74.00	29.15	PASS	Н	PK
3	3494.0329	-20.03	58.32	38.29	74.00	35.71	PASS	Н	PK
4	7152.2768	-11.72	53.56	41.84	74.00	32.16	PASS	Н	PK
5	11184.5456	-6.39	52.82	46.43	74.00	27.57	PASS	Н	PK
6	14397.7599	1.18	48.54	49.72	74.00	24.28	PASS	Н	PK
7	1088.0088	0.86	43.60	44.46	74.00	29.54	PASS	V	PK
8	1740.2740	3.08	41.57	44.65	74.00	29.35	PASS	V	PK
9	2059.7060	4.75	41.06	45.81	74.00	28.19	PASS	V	PK
10	3321.0214	-19.88	57.60	37.72	74.00	36.28	PASS	V	PK
11	6636.2424	-12.70	55.46	42.76	74.00	31.24	PASS	V	PK
12	12436.6291	-4.74	52.03	47.29	74.00	26.71	PASS	V	PK

Mode):		802.11 b Tran	smitting	Channel:		2437MHz		
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1108.2108	0.85	43.09	43.94	74.00	30.06	PASS	Н	PK
2	1586.0586	2.18	40.94	43.12	74.00	30.88	PASS	Н	PK
3	3250.0167	-20.07	58.23	38.16	74.00	35.84	PASS	Н	PK
4	6252.2168	-13.06	54.50	41.44	74.00	32.56	PASS	Н	PK
5	10350.4900	-6.37	51.19	44.82	74.00	29.18	PASS	Н	PK
6	16415.8944	-0.11	51.41	51.30	74.00	22.70	PASS	Н	PK
7	1066.8067	0.88	44.96	45.84	74.00	28.16	PASS	V	PK
8	1835.6836	3.55	40.92	44.47	74.00	29.53	PASS	V	PK
9	4734.1156	-16.46	54.88	38.42	74.00	35.58	PASS	V	PK
10	5875.1917	-13.60	53.86	40.26	74.00	33.74	PASS	V	PK
11	10308.4872	-6.44	51.69	45.25	74.00	28.75	PASS	V	PK
12	16274.8850	1.52	49.94	51.46	74.00	22.54	PASS	V	PK













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	Mode	:		802.11 b Transmitting			Channe	el:	2462MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	1057.2057	0.89	42.80	43.69	74.00	30.31	PASS	Н	PK
6	2	1526.6527	1.69	41.26	42.95	74.00	31.05	PASS	Н	PK
	3	3467.0311	-20.08	57.38	37.30	74.00	36.70	PASS	Н	PK
Ī	4	7104.2736	-11.59	53.41	41.82	74.00	32.18	PASS	Н	PK
Ī	5	13743.7162	-1.71	50.33	48.62	74.00	25.38	PASS	Н	PK
Ī	6	16909.9273	3.05	49.17	52.22	74.00	21.78	PASS	Н	PK
Ī	7	1065.0065	0.88	43.66	44.54	74.00	29.46	PASS	V	PK
Ī	8	1655.0655	2.65	41.99	44.64	74.00	29.36	PASS	V	PK
Ī	9	3799.0533	-19.25	56.74	37.49	74.00	36.51	PASS	V	PK
	10	6391.2261	-12.87	56.66	43.79	74.00	30.21	PASS	V	PK
9	11	12789.6526	-4.25	51.43	47.18	74.00	26.82	PASS	V	PK
	12	16262.8842	1.42	49.83	51.25	74.00	22.75	PASS	V	PK

Mode	:		802.11 g Trar	smitting		Channel:		2412MHz	
NO	Freq. [MHz]	Facto [dB]	r Reading [dBμV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1031.2031	0.92	43.27	44.19	74.00	29.81	PASS	Н	PK
2	1747.4747	3.10	41.58	44.68	74.00	29.32	PASS	Н	PK
3	4250.0833	-17.62	57.55	39.93	74.00	34.07	PASS	Н	PK
4	7786.3191	-11.33	53.97	42.64	74.00	31.36	PASS	Н	PK
5	13282.6855	-3.40	50.54	47.14	74.00	26.86	PASS	Н	PK
6	16491.8995	1.59	50.11	51.70	74.00	22.30	PASS	Н	PK
7	1063.4063	0.89	47.08	47.97	74.00	26.03	PASS	V	PK
8	1854.2854	3.69	40.73	44.42	74.00	29.58	PASS	V	PK
9	5339.1559	-14.70	55.44	40.74	74.00	33.26	PASS	V	PK
10	6661.2441	-12.62	57.83	45.21	74.00	28.79	PASS	V	PK
11	10803.5202	-6.23	51.61	45.38	74.00	28.62	PASS	V	PK
12	16649.9100	2.06	49.50	51.56	74.00	22.44	PASS	V	PK













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	Mode	:		802.11 g Trai	nsmitting		Channe	el:	2437MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	1072.0072	0.88	43.84	44.72	74.00	29.28	PASS	Н	PK
6	2	1843.8844	3.61	41.33	44.94	74.00	29.06	PASS	Н	PK
	3	6111.2074	-13.16	53.74	40.58	74.00	33.42	PASS	Н	PK
	4	9314.4210	-7.96	53.10	45.14	74.00	28.86	PASS	Н	PK
	5	12050.6034	-5.56	52.59	47.03	74.00	26.97	PASS	Н	PK
	6	16909.9273	3.05	47.93	50.98	74.00	23.02	PASS	Н	PK
	7	1146.8147	0.83	43.12	43.95	74.00	30.05	PASS	V	PK
	8	1598.8599	2.28	43.64	45.92	74.00	28.08	PASS	V	PK
	9	4269.0846	-17.47	58.48	41.01	74.00	32.99	PASS	V	PK
	10	6388.2259	-12.87	56.65	43.78	74.00	30.22	PASS	V	PK
9	11	12014.6010	-5.34	51.74	46.40	74.00	27.60	PASS	V	PK
	12	16268.8846	1.47	50.08	51.55	74.00	22.45	PASS	V	PK

Mode	:		802.11 g Transmitting			Channel:		2462MHz	
NO	Freq. [MHz]	Facto [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1063.2063	0.89	44.08	44.97	74.00	29.03	PASS	Н	PK
2	1656.0656	2.65	42.96	45.61	74.00	28.39	PASS	Н	PK
3	4392.0928	-17.06	55.90	38.84	74.00	35.16	PASS	Н	PK
4	6739.2493	-12.45	53.34	40.89	74.00	33.11	PASS	Н	PK
5	13769.7180	-1.67	49.94	48.27	74.00	25.73	PASS	Н	PK
6	16255.8837	1.36	50.22	51.58	74.00	22.42	PASS	Н	PK
7	1063.2063	0.89	44.65	45.54	74.00	28.46	PASS	V	PK
8	3853.0569	-19.17	57.02	37.85	74.00	36.15	PASS	V	PK
9	6390.2260	-12.87	54.76	41.89	74.00	32.11	PASS	V	PK
10	10326.4884	-6.41	51.64	45.23	74.00	28.77	PASS	V	PK
11	13712.7142	-1.75	50.58	48.83	74.00	25.17	PASS	V	PK
12	16512.9009	1.71	50.00	51.71	74.00	22.29	PASS	V	PK













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	/ 46.00		1 431 1 43						
Мс	de:	8	802.11 n(HT20) Transmitting			Channel:		2412MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1104.0104	0.85	44.35	45.20	74.00	28.80	PASS	Н	PK
2	4251.0834	-17.62	57.38	39.76	74.00	34.24	PASS	Н	PK
3	6893.2596	-11.87	53.28	41.41	74.00	32.59	PASS	Н	PK
4	10697.5132	-6.47	51.37	44.90	74.00	29.10	PASS	Н	PK
5	13745.7164	-1.71	50.58	48.87	74.00	25.13	PASS	Н	PK
6	17293.9529	3.98	47.97	51.95	74.00	22.05	PASS	Н	PK
7	1063.2063	0.89	43.70	44.59	74.00	29.41	PASS	V	PK
8	1411.8412	1.40	42.05	43.45	74.00	30.55	PASS	V	PK
9	5332.1555	-14.72	57.25	42.53	74.00	31.47	PASS	V	PK
10	8500.3667	-10.55	54.37	43.82	74.00	30.18	PASS	V	PK
11	13669.7113	-1.73	50.31	48.58	74.00	25.42	PASS	V	PK
12	17327.9552	3.61	47.97	51.58	74.00	22.42	PASS	V	PK

Мо	de:		802.11 n(HT2	0) Transmitti	Channel:		2437MHz		
NC	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1101.2101	0.85	43.44	44.29	74.00	29.71	PASS	Н	PK
2	1834.2834	3.54	41.74	45.28	74.00	28.72	PASS	Н	PK
3	4821.1214	-16.22	55.92	39.70	74.00	34.30	PASS	Н	PK
4	9175.4117	-8.08	52.00	43.92	74.00	30.08	PASS	Н	PK
5	14400.7601	1.21	48.44	49.65	74.00	24.35	PASS	Н	PK
6	16264.8843	1.44	49.99	51.43	74.00	22.57	PASS	Н	PK
7	1044.0044	0.91	43.57	44.48	74.00	29.52	PASS	V	PK
8	1635.0635	2.52	42.06	44.58	74.00	29.42	PASS	V	PK
9	4248.0832	-17.64	57.32	39.68	74.00	34.32	PASS	V	PK
10	8512.3675	-10.53	55.59	45.06	74.00	28.94	PASS	V	PK
11	13732.7155	-1.72	50.11	48.39	74.00	25.61	PASS	V	PK
12	17278.9519	3.78	47.40	51.18	74.00	22.82	PASS	V	PK













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	Mode	:		802.11 n(HT2	0) Transmitti	Channe	el:	2462MHz		
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	1093.4093	0.86	43.53	44.39	74.00	29.61	PASS	Н	PK
	2	1765.6766	3.16	42.24	45.40	74.00	28.60	PASS	Н	PK
	3	4440.0960	-17.01	55.49	38.48	74.00	35.52	PASS	Н	PK
Ī	4	7576.3051	-11.19	53.36	42.17	74.00	31.83	PASS	Н	PK
Ī	5	10803.5202	-6.23	51.22	44.99	74.00	29.01	PASS	Н	PK
Ī	6	16252.8835	1.33	50.26	51.59	74.00	22.41	PASS	Н	PK
ĺ	7	1065.2065	0.88	44.35	45.23	74.00	28.77	PASS	V	PK
Ī	8	1524.0524	1.67	41.32	42.99	74.00	31.01	PASS	V	PK
Ī	9	4267.0845	-17.49	57.70	40.21	74.00	33.79	PASS	V	PK
	10	6332.2221	-12.90	55.34	42.44	74.00	31.56	PASS	V	PK
9	11	9847.4565	-7.23	53.04	45.81	74.00	28.19	PASS	V	PK
	12	16273.8849	1.51	50.23	51.74	74.00	22.26	PASS	V	PK

Mode	Mode:		802.11 n(HT40) Transmitting			Channel:		2422MHz	
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1088.0088	0.86	43.07	43.93	74.00	30.07	PASS	Н	PK
2	1695.6696	2.91	41.36	44.27	74.00	29.73	PASS	Н	PK
3	4898.1265	-16.20	55.38	39.18	74.00	34.82	PASS	Н	PK
4	10245.4830	-6.83	51.80	44.97	74.00	29.03	PASS	Н	PK
5	14395.7597	1.15	48.30	49.45	74.00	24.55	PASS	Н	PK
6	16350.8901	0.61	50.97	51.58	74.00	22.42	PASS	Н	PK
7	1062.8063	0.89	45.31	46.20	74.00	27.80	PASS	V	PK
8	1855.2855	3.69	41.06	44.75	74.00	29.25	PASS	V	PK
9	4649.1099	-16.64	59.42	42.78	74.00	31.22	PASS	V	PK
10	9145.4097	-8.32	52.26	43.94	74.00	30.06	PASS	V	PK
11	14396.7598	1.17	48.43	49.60	74.00	24.40	PASS	V	PK
12	16266.8845	1.45	49.15	50.60	74.00	23.40	PASS	V	PK













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Mode	:		802.11 n(HT4	0) Transmitti	Channel:		2437MHz		
NO	Freq. [MHz]	Facto	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1057.8058	0.89	43.12	44.01	74.00	29.99	PASS	Н	PK
2	1661.2661	2.69	41.28	43.97	74.00	30.03	PASS	Н	PK
3	2127.9128	4.58	42.75	47.33	74.00	26.67	PASS	Н	PK
4	6324.2216	-12.91	54.78	41.87	74.00	32.13	PASS	Н	PK
5	10374.4916	-6.33	51.31	44.98	74.00	29.02	PASS	Н	PK
6	16279.8853	1.56	49.54	51.10	74.00	22.90	PASS	Н	PK
7	1178.0178	0.81	43.73	44.54	74.00	29.46	PASS	V	PK
8	1767.4767	3.17	41.57	44.74	74.00	29.26	PASS	V	PK
9	4249.0833	-17.63	57.27	39.64	74.00	34.36	PASS	V	PK
10	7736.3158	-11.16	53.78	42.62	74.00	31.38	PASS	V	PK
11	13759.7173	-1.69	50.34	48.65	74.00	25.35	PASS	V	PK
12	16341.8895	0.81	50.91	51.72	74.00	22.28	PASS	V	PK

Mode	:		802.11 n(HT4	l0) Transmitti	ng	Channel:		2452MHz	
NO	Freq. [MHz]	Facto [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1367.2367	1.28	43.24	44.52	74.00	29.48	PASS	Н	PK
2	1827.8828	3.49	42.51	46.00	74.00	28.00	PASS	Н	PK
3	4265.0843	-17.51	56.97	39.46	74.00	34.54	PASS	Н	PK
4	9257.4172	-7.92	52.08	44.16	74.00	29.84	PASS	Н	PK
5	14323.7549	-0.05	49.68	49.63	74.00	24.37	PASS	Н	PK
6	17297.9532	4.03	47.48	51.51	74.00	22.49	PASS	Н	PK
7	1064.8065	0.89	44.54	45.43	74.00	28.57	PASS	V	PK
8	1647.8648	2.60	40.98	43.58	74.00	30.42	PASS	V	PK
9	4272.0848	-17.45	5 57.31	39.86	74.00	34.14	PASS	V	PK
10	6262.2175	-13.03	54.14	41.11	74.00	32.89	PASS	V	PK
11	9275.4184	-7.93	51.91	43.98	74.00	30.02	PASS	V	PK
12	16447.8965	0.60	50.56	51.16	74.00	22.84	PASS	V	PK

Remark:

- 1) 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 + Factor
 - Factor=Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. 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. So, only the peak measurements were shown in the report.