





## Page 53 of 121









## Page 54 of 121









### Appendix E): Power Spectral Density

### Test Limit

According to §15.247(e),

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Antenna not exceed 6 dBi: 8dBm Antenna with DG greater than 6 dBi: [Limit = $8 - (DG - 6)$ ] Point-to-point operation:

### **Test Procedure**

Test method Refer as KDB 558074 D01.

- 1. The EUT RF output connected to the spectrum analyzer by RF cable.
- 2. Setting maximum power transmit of EUT
- 3. SA set RBW = 3kHz, VBW = 30kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
- 4. The path loss was compensated to the results for each measurement by SA.
- 5. Mark the maximum level.
- 6. Measure and record the result of power spectral density. in the test report.

### Test Setup





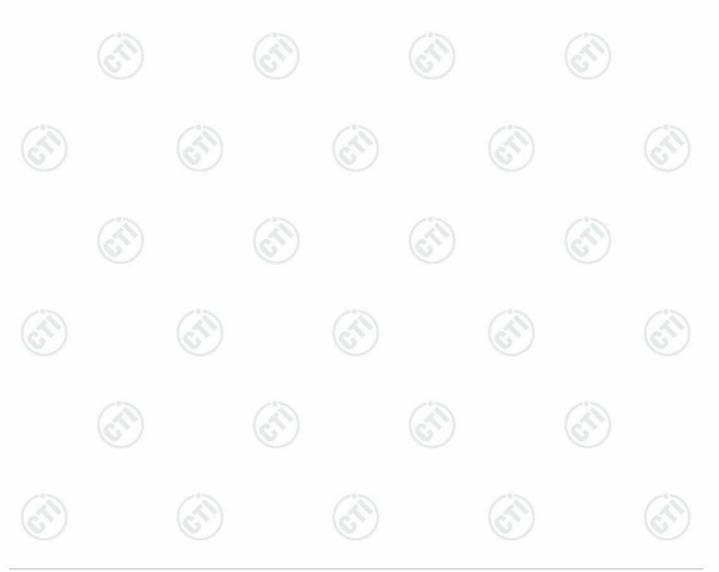




Page 56 of 121

### **Result Table**

Mode	Channel	Power Spectral Density [dBm]	Verdict
11B	LCH	-16.978	PASS
11B	МСН	-15.257	PASS
11B	нсн	-16.725	PASS
11G	LCH	-25.395	PASS
11G	МСН	-25.531	PASS
11G	НСН	-25.603	PASS
11N20SISO	LCH	-25.027	PASS
11N20SISO	МСН	-25.308	PASS
11N20SISO	НСН	-26.171	PASS
11N40SISO	LCH	-26.501	PASS
11N40SISO	МСН	-29.335	PASS
11N40SISO	нсн	-29.161	PASS











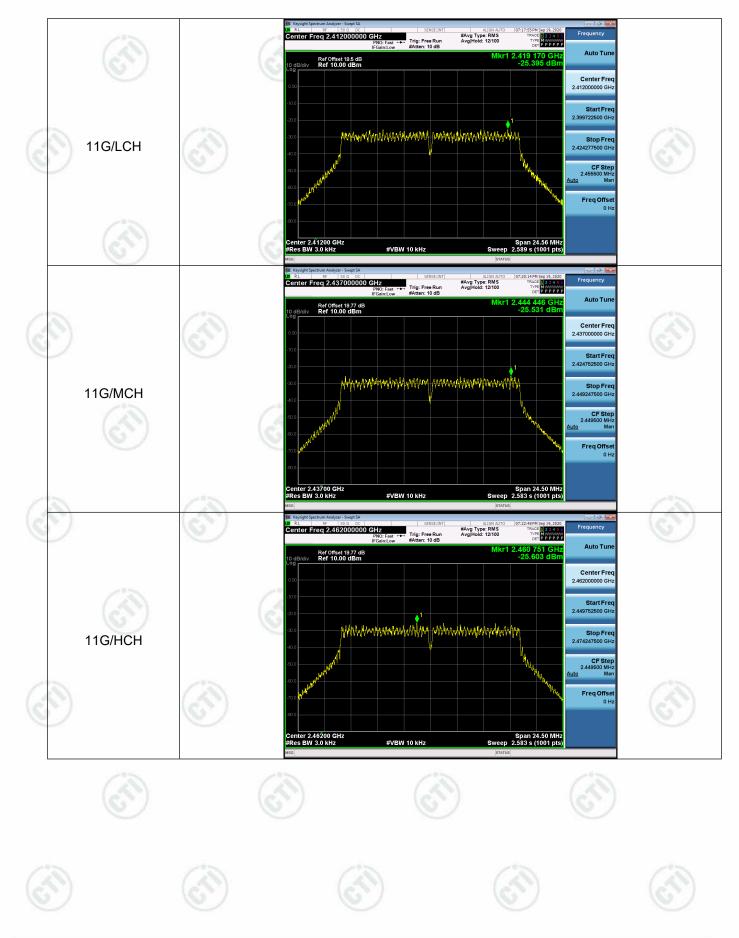




Page 58 of 121



### Report No. : EED32M00257801

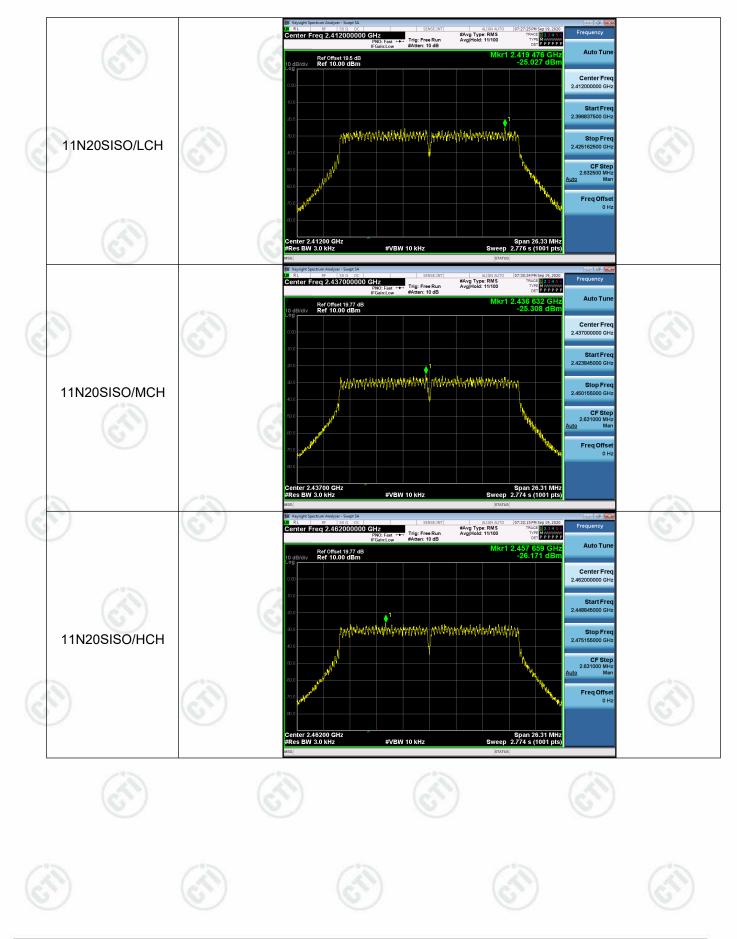




Page 59 of 121

## CTI 华刻 检 测 CENTRE TESTING INTERNATIONAL

### Report No. : EED32M00257801





## Page 60 of 121





### Report No. : EED32M00257801







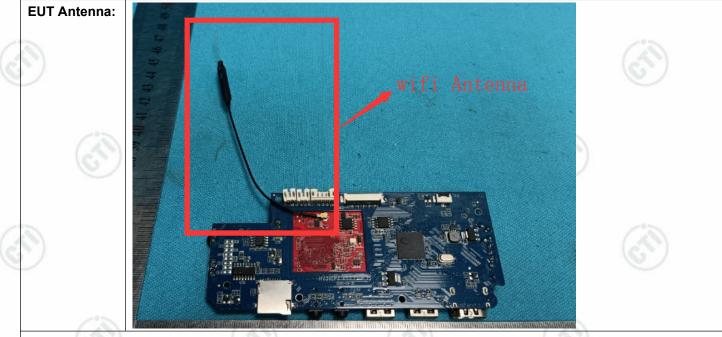
### Appendix F): Antenna Requirement

#### 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.



The antenna is Internal antenna. The best case gain of the antenna is 2dBi.









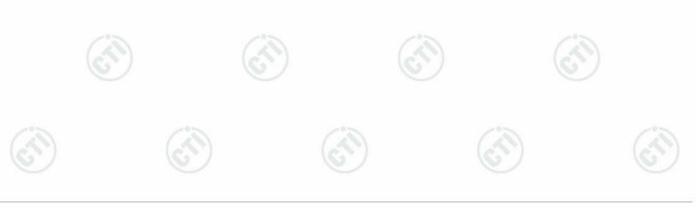
### Appendix G): AC Power Line Conducted Emission

Test Procedure:								
rest ribbedule.	Test frequency range :150KHz-	-30MHz						
	1) The mains terminal disturbance voltage test was conducted in a shielded room.							
Ð	2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu$ H + $5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2 which was bonded to the ground reference plane in the same way as the LISN 1 fo the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.							
	3) The tabletop EUT was place reference plane. And for flow horizontal ground reference	oor-standing arrange						
	4) The test was performed with a vertical ground reference plane. The rear of the EU shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other unit of the EUT and associated equipment was at least 0.8 m from the LISN 2.							
	distance was between the c	closest points of the L	ISN 1 and the EUT.	All other un				
	distance was between the c	closest points of the L equipment was at lea n emission, the relativ	LISN 1 and the EUT. st 0.8 m from the LIS /e positions of equip	. All other un SN 2. ment and all				
Limit:	<ul><li>distance was between the constraints of the EUT and associated e</li><li>5) In order to find the maximum the interface cables must</li></ul>	closest points of the L equipment was at lea n emission, the relativ	LISN 1 and the EUT. st 0.8 m from the LIS /e positions of equip	. All other un SN 2. ment and all				
Limit:	distance was between the of of the EUT and associated e 5) In order to find the maximum the interface cables must measurement.	closest points of the L equipment was at lea n emission, the relativ	LISN 1 and the EUT. st 0.8 m from the LIS ve positions of equip ng to ANSI C63.10	. All other un SN 2. ment and all				
Limit:	<ul><li>distance was between the constraints of the EUT and associated e</li><li>5) In order to find the maximum the interface cables must</li></ul>	closest points of the L equipment was at lea n emission, the relativ be changed accordi	LISN 1 and the EUT. st 0.8 m from the LIS ve positions of equip ng to ANSI C63.10	. All other un SN 2. ment and all				
Limit:	distance was between the of of the EUT and associated e 5) In order to find the maximum the interface cables must measurement.	closest points of the L equipment was at lea n emission, the relativ be changed accordin Limit (c	LISN 1 and the EUT. st 0.8 m from the LIS /e positions of equip ng to ANSI C63.10 (BµV)	. All other un SN 2. ment and all				
Limit:	distance was between the c of the EUT and associated e 5) In order to find the maximum the interface cables must measurement.	closest points of the L equipment was at lea n emission, the relativ be changed accordin Limit (c Quasi-peak	LISN 1 and the EUT. st 0.8 m from the LIS ve positions of equip ng to ANSI C63.10 dBµV) Average	. All other un SN 2. ment and all				

### **Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector.

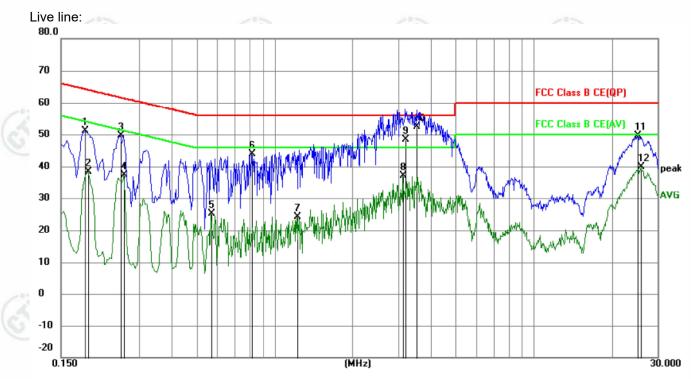
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.











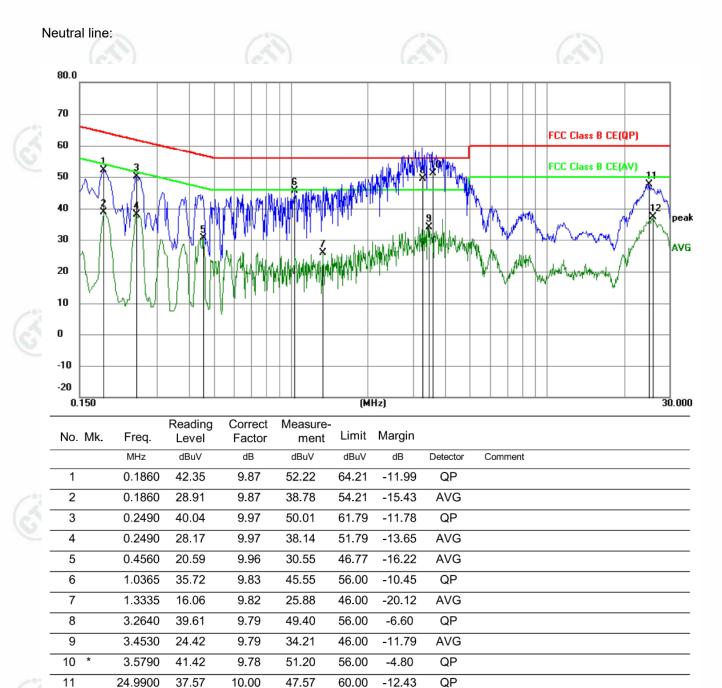
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1860	41.22	9.87	51.09	64.21	-13.12	QP	
2	0.1905	28.47	9.87	38.34	54.01	-15.67	AVG	
3	0.2535	39.58	9.98	49.56	61.64	-12.08	QP	
4	0.2625	27.28	10.00	37.28	51.35	-14.07	AVG	
5	0.5685	15.19	10.03	25.22	46.00	-20.78	AVG	
6	0.8160	33.91	9.85	43.76	56.00	-12.24	QP	
7	1.2210	14.42	9.82	24.24	46.00	-21.76	AVG	
8	3.1380	27.27	9.79	37.06	46.00	-8.94	AVG	
9	3.2055	38.71	9.79	48.50	56.00	-7.50	QP	
10 *	3.5385	42.72	9.78	52.50	56.00	-3.50	QP	
11	25.1160	39.57	10.00	49.57	60.00	-10.43	QP	
12	25.9800	29.87	10.01	39.88	50.00	-10.12	AVG	
		NR-AC						TRACT IN ACCOUNT











#### Notes:

12

25.9125

27.41

10.01

37.42

The following Quasi-Peak and Average measurements were performed on the EUT:
 Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

50.00

-12.58

AVG







# Appendix H): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:	Frequency	Detector F	RBW \	/BW	Remark
	30MHz-1GHz	Quasi-peak 12	20kHz 30	0kHz	Quasi-peak
		Peak 1	MHz 3	MHz	Peak
0	Above 1GHz	Peak 1	MHz 1	0Hz	Average
Test Procedure:	<ul> <li>Below 1GHz test proced</li> <li>Test method Refer as KDF</li> <li>a. The EUT was placed of at a 3 meter semi-ane determine the position</li> <li>b. The EUT was set 3 me was mounted on the to</li> <li>c. The antenna height is determine the maximular polarizations of the and</li> <li>d. For each suspected efficient the antenna was tuned was turned from 0 deg</li> <li>e. The test-receiver systen Bandwidth with Maxim</li> <li>f. Place a marker at the frequency to show cor bands. Save the spect for lowest and highest</li> </ul>	ure as below: B 558074 D01 on the top of a rotatin choic camber. The ta of the highest radiat eters away from the op of a variable-height varied from one met um value of the field st tenna are set to make mission, the EUT was d to heights from 1 m grees to 360 degrees em was set to Peak I hum Hold Mode. end of the restricted npliance. Also meas trum analyzer plot. R	ng table 0.8 able was ro tion. interferenc ht antenna cer to four r strength. B at the mea s arranged neter to 4 n s to find the Detect Fun band close ure any en	3 meters otated 36 e-receivin tower. neters at oth horiz suremen I to its wo neters an e maximu ction and est to the nissions i	above the grou 0 degrees to ng antenna, w pove the groun ontal and verti t. orst case and t orst case and t d the rotatable m reading. d Specified transmit n the restricted
	<ul> <li>Above 1GHz test proced</li> <li>g. Different between above to fully Anechoic Charren 18GHz the distance is</li> <li>h. Test the EUT in the location measured transmitting mode, are</li> <li>j. Repeat above proceded</li> </ul>	ve is the test site, ch nber change form tal 1 meter and table is owest channel , the H ements are performe nd found the X axis p	ble 0.8 me 5 1.5 meter lighest cha d in X, Y, 2 ositioning	ter to 1.5 ). annel Z axis pos which it is	meter( Above sitioning for s worse case.
Limit:	Frequency	Limit (dBµV/m (	@3m)	Rema	ark
	30MHz-88MHz	40.0		uasi-pea	
		+0.0		Quasi-peak Value	
	88MHz-216MHz	43.5	201	•	_0
	15	6 m	Q	•	k Value
	88MHz-216MHz	43.5	Q Q	uasi-pea	k Value k Value
	88MHz-216MHz 216MHz-960MHz 960MHz-1GHz	43.5 46.0		uasi-pea uasi-pea	k Value k Value k Value
9	88MHz-216MHz 216MHz-960MHz	43.5 46.0 54.0		uasi-pea uasi-pea uasi-pea	k Value k Value k Value Value

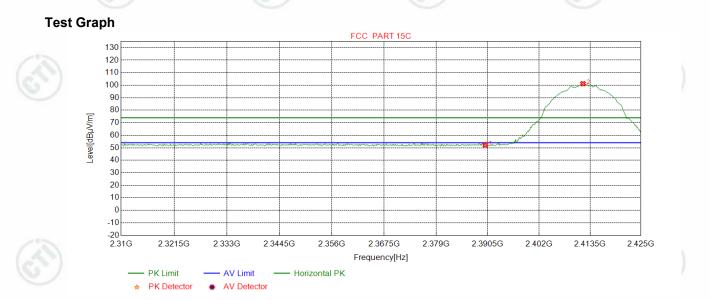






### Test plot as follows:





NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.76	52.26	74.00	21.74	Pass	Horizontal
2	2411.9024	32.28	13.35	-43.12	98.66	101.17	74.00	-27.17	Pass	Horizontal



























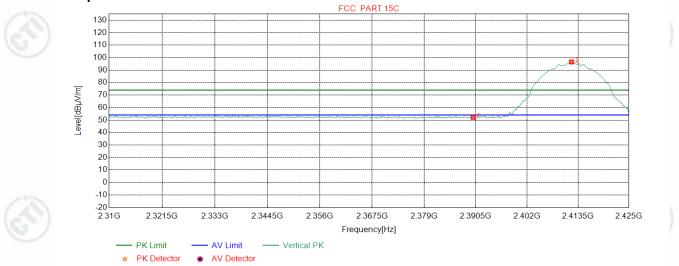








Mode:	802.11 b Transmitting	Channel:	2412
Remark:	PK	I A A A A A A A A A A A A A A A A A A A	



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.66	52.16	74.00	21.84	Pass	Vertical
2	2412.0463	32.28	13.36	-43.13	94.00	96.51	74.00	-22.51	Pass	Vertical













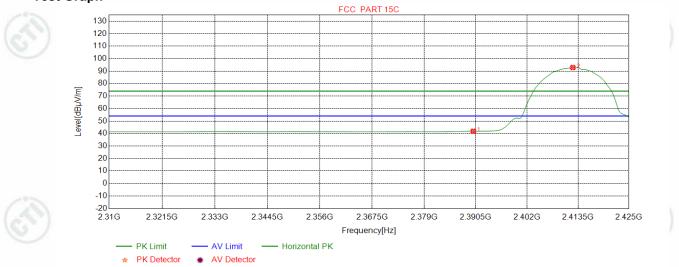








Mode:	802.11 b Transmitting	Channel:	2412
Remark:	AV	V	



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	39.37	41.87	54.00	12.13	Pass	Horizontal
2	2412.3342	32.28	13.36	-43.12	90.32	92.84	54.00	-38.84	Pass	Horizontal











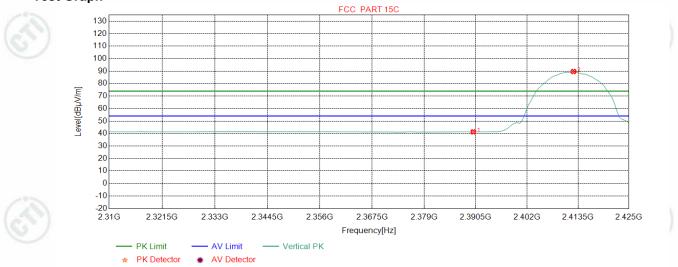








Mode:	802.11 b Transmitting	Channel:	2412
Remark:	AV	V	



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.83	41.33	54.00	12.67	Pass	Vertical
2	2412.4781	32.28	13.36	-43.12	87.15	89.67	54.00	-35.67	Pass	Vertical













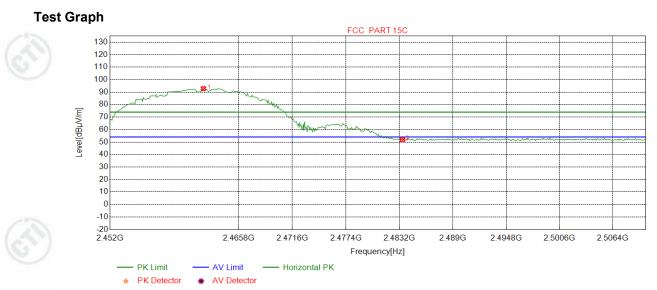








Mode:	802.11 b Transmitting	Channel:	2462
Remark:	РК	V	U



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2462.0175	32.35	13.47	-43.11	90.08	92.79	74.00	-18.79	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	49.19	51.84	74.00	22.16	Pass	Horizontal















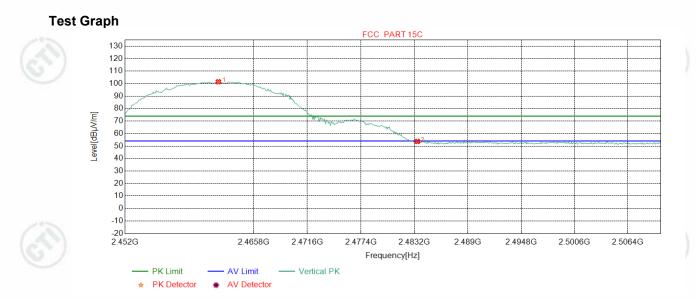








Mode:	802.11 b Transmitting	Channel:	2462
Remark:	РК	U	I A A A A A A A A A A A A A A A A A A A



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2462.0175	32.35	13.47	-43.11	98.76	101.47	74.00	-27.47	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	51.01	53.66	74.00	20.34	Pass	Vertical

















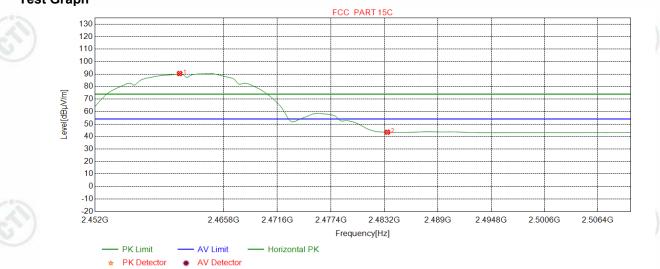






Mode:	802.11 b Transmitting	Channel:	2462
Remark:	AV	U	





NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2461.0738	32.35	13.48	-43.11	87.72	90.44	54.00	-36.44	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	40.78	43.43	54.00	10.57	Pass	Horizontal















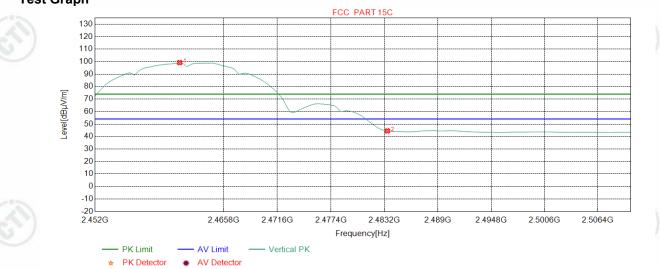






Mode:	802.11 b Transmitting	Channel:	2462
Remark:	AV	V	





NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2461.0738	32.35	13.48	-43.11	96.46	99.18	54.00	-45.18	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	41.86	44.51	54.00	9.49	Pass	Vertical















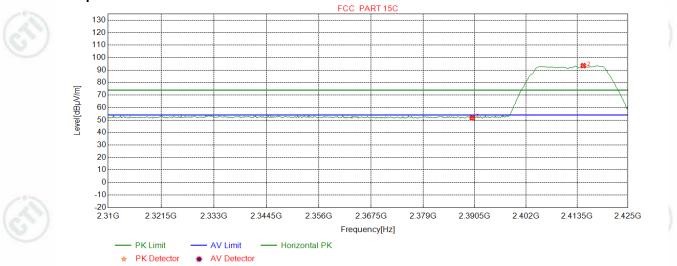
Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com







Mode:	802.11 g Transmitting	Channel:	2412
Remark:	PK		$\sim$



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.27	51.77	74.00	22.23	Pass	Horizontal
2	2414.9249	32.28	13.37	-43.12	91.02	93.55	74.00	-19.55	Pass	Horizontal













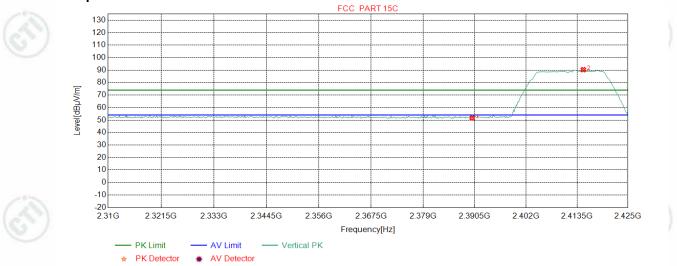








Mode:	802.11 g Transmitting	Channel:	2412
Remark:	РК	S.	



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.18	51.68	74.00	22.32	Pass	Vertical
2	2414.9249	32.28	13.37	-43.12	87.76	90.29	74.00	-16.29	Pass	Vertical



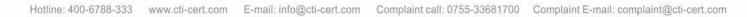










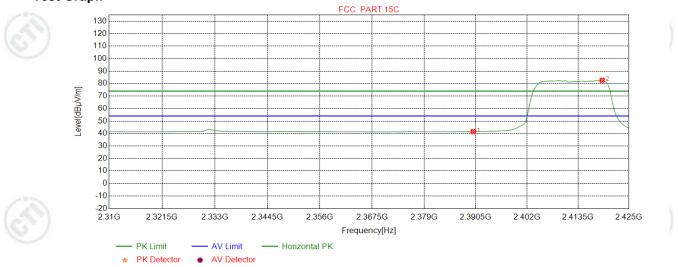








Mode:	802.11 g Transmitting	Channel:	2412
Remark:	AV	V	U



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	39.06	41.56	54.00	12.44	Pass	Horizontal
2	2418.9549	32.29	13.39	-43.12	80.04	82.60	54.00	-28.60	Pass	Horizontal













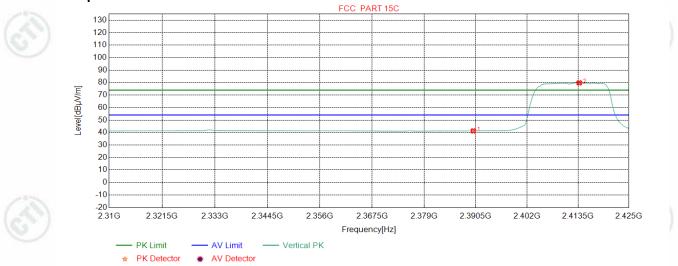








Mode:	802.11 g Transmitting	Channel:	2412
Remark:	AV	U	



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.79	41.29	54.00	12.71	Pass	Vertical
2	2413.7735	32.28	13.36	-43.11	77.28	79.81	54.00	-25.81	Pass	Vertical















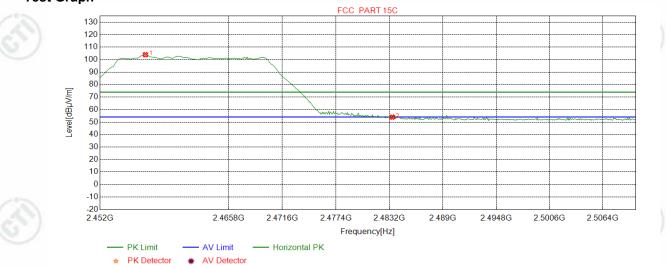






Mode:	802.11 g Transmitting	Channel:	2462
Remark:	PK	V	U





NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2456.8636	32.34	13.50	-43.11	101.18	103.91	74.00	-29.91	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	51.28	53.93	74.00	20.07	Pass	Horizontal















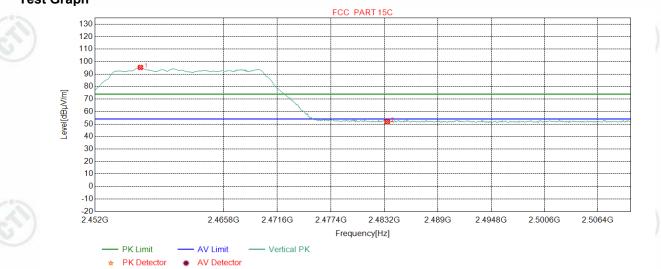






Mode:	802.11 g Transmitting	Channel:	2462
Remark:	PK	V	





NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2456.8636	32.34	13.50	-43.11	92.56	95.29	74.00	-21.29	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.30	51.95	74.00	22.05	Pass	Vertical













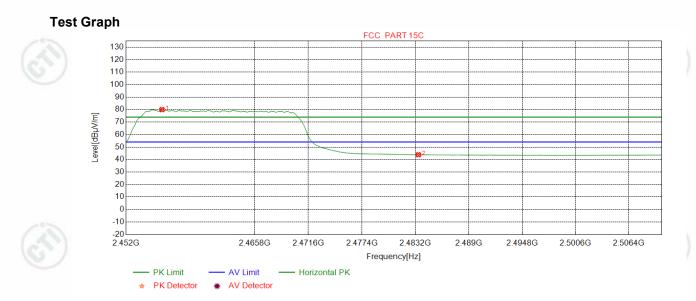








ć	Mode:	802.11 g Transmitting	Channel:	2462
2	Remark:	AV	V	



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2455.8473	32.34	13.50	-43.11	77.23	79.96	54.00	-25.96	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	41.21	43.86	54.00	10.14	Pass	Horizontal

















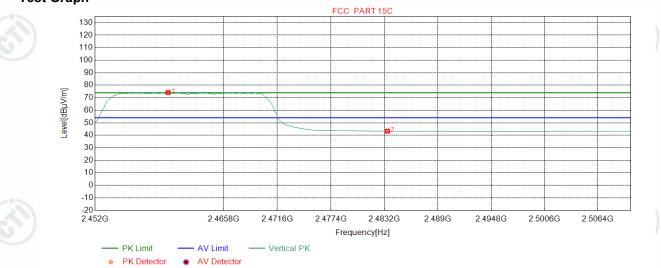






Mode:	802.11 g Transmitting	Channel:	2462
Remark:	AV	V	





NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2459.8398	32.34	13.48	-43.10	71.50	74.22	54.00	-20.22	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.64	43.29	54.00	10.71	Pass	Vertical











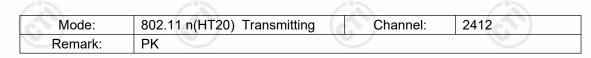


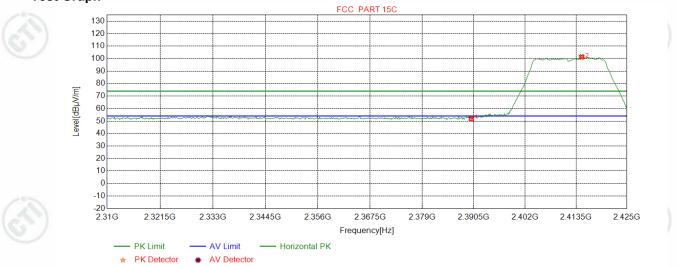












NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.30	51.80	74.00	22.20	Pass	Horizontal
2	2414.7810	32.28	13.37	-43.12	98.81	101.34	74.00	-27.34	Pass	Horizontal









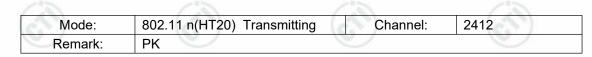


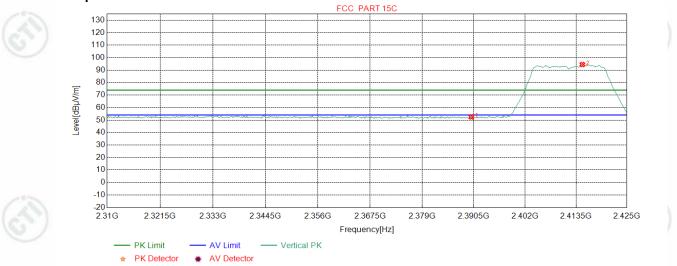












NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.96	52.46	74.00	21.54	Pass	Vertical
2	2414.9249	32.28	13.37	-43.12	91.91	94.44	74.00	-20.44	Pass	Vertical











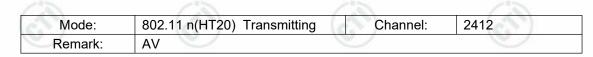


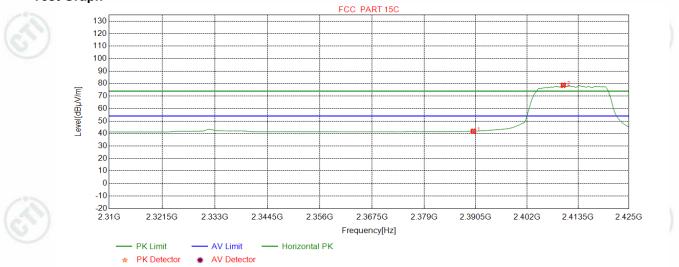












NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	39.35	41.85	54.00	12.15	Pass	Horizontal
2	2410.1752	32.27	13.35	-43.12	76.16	78.66	54.00	-24.66	Pass	Horizontal











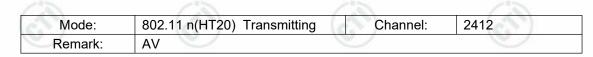


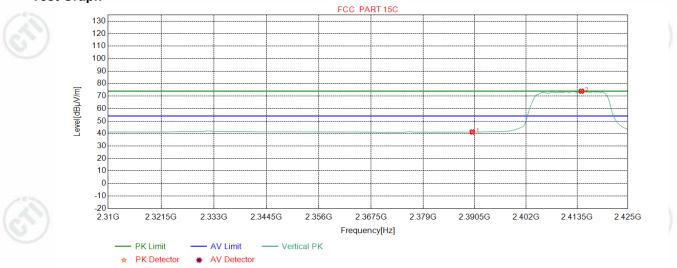












NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.69	41.19	54.00	12.81	Pass	Vertical
2	2414.4931	32.28	13.37	-43.12	71.30	73.83	54.00	-19.83	Pass	Vertical













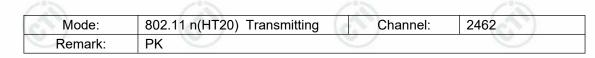


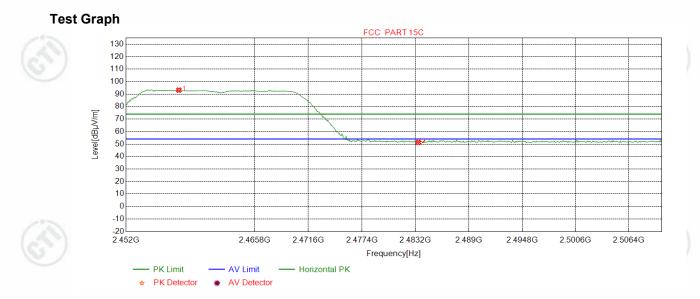
Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com











NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2457.6621	32.34	13.49	-43.10	90.44	93.17	74.00	-19.17	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	48.61	51.26	74.00	22.74	Pass	Horizontal









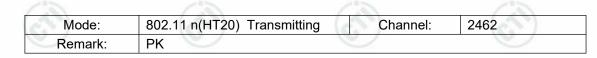


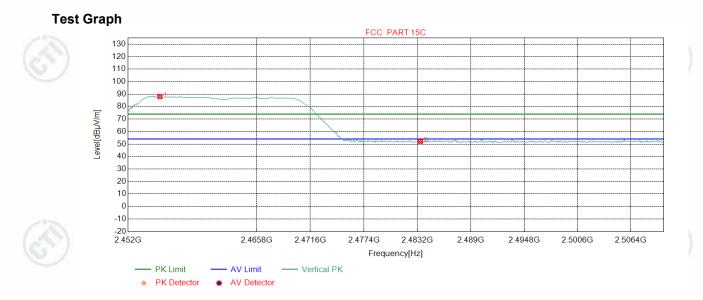












NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2455.4118	32.34	13.51	-43.12	85.20	87.93	74.00	-13.93	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.46	52.11	74.00	21.89	Pass	Vertical









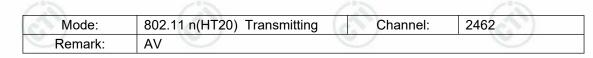


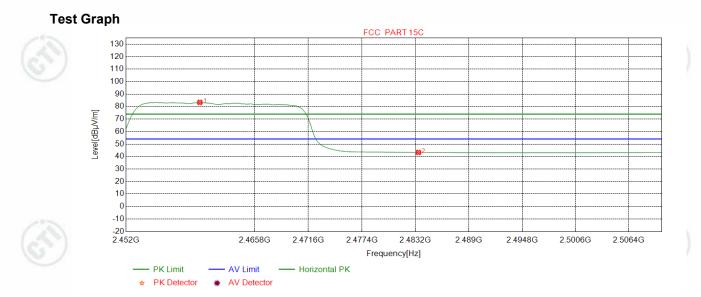












NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2459.9124	32.34	13.48	-43.10	80.63	83.35	54.00	-29.35	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	40.62	43.27	54.00	10.73	Pass	Horizontal



Hotline: 400-6788-333











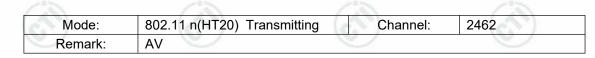


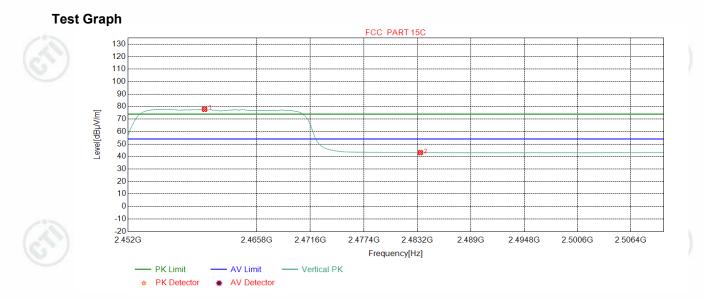












NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2460.2028	32.34	13.48	-43.10	75.06	77.78	54.00	-23.78	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.50	43.15	54.00	10.85	Pass	Vertical















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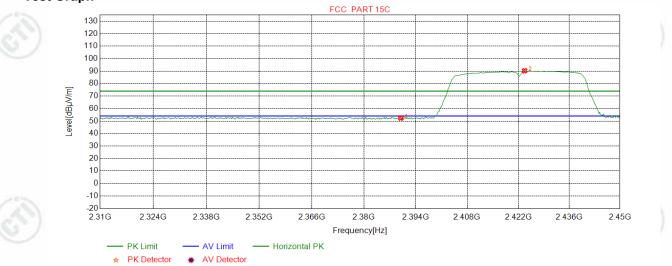






Mode:802.11 n(HT40) TransmittingChannel:2422Remark:PK





NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.85	52.35	74.00	21.65	Pass	Horizontal
2	2423.7171	32.29	13.41	-43.11	87.66	90.25	74.00	-16.25	Pass	Horizontal





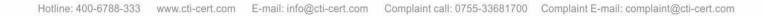








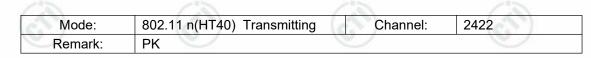




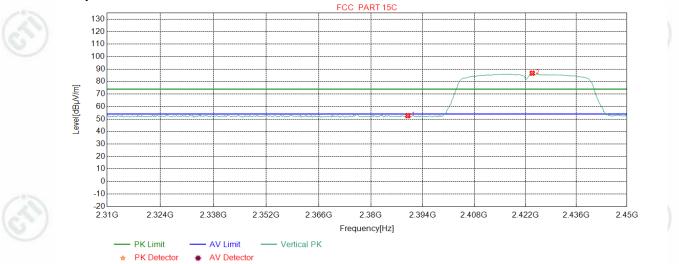








**Test Graph** 



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	50.19	52.69	74.00	21.31	Pass	Vertical
2	2423.8924	32.29	13.41	-43.11	84.10	86.69	74.00	-12.69	Pass	Vertical













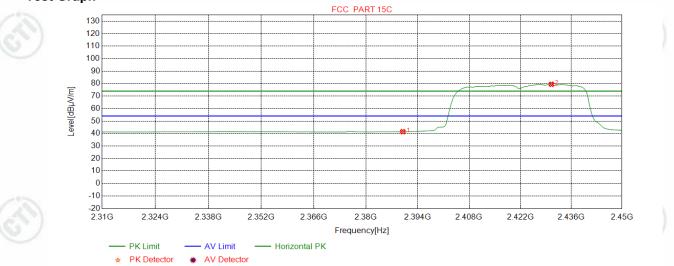






Mode:802.11 n(HT40) TransmittingChannel:2422Remark:AV





NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.96	41.46	54.00	12.54	Pass	Horizontal
2	2430.5507	32.30	13.44	-43.11	76.80	79.43	54.00	-25.43	Pass	Horizontal









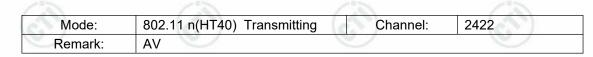




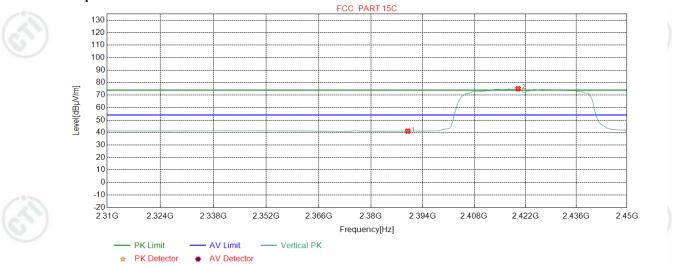








**Test Graph** 



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.60	41.10	54.00	12.90	Pass	Vertical
2	2420.0375	32.29	13.39	-43.12	72.48	75.04	54.00	-21.04	Pass	Vertical











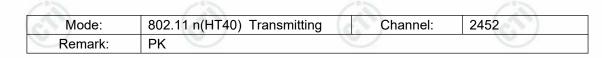


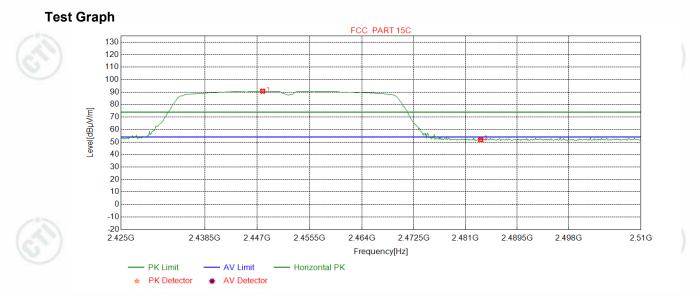












NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2447.8723	32.33	13.52	-43.11	88.00	90.74	74.00	-16.74	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	49.08	51.73	74.00	22.27	Pass	Horizontal











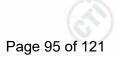




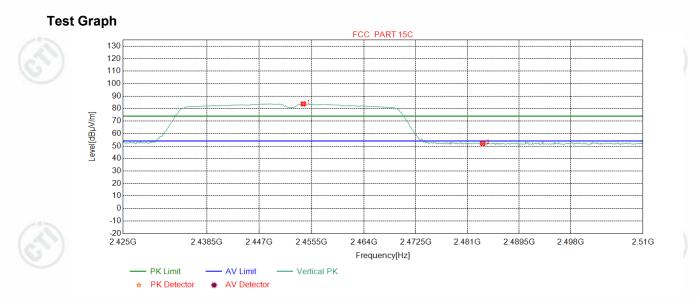








Mode:	802.11 n(HT40) Transmitting	Channel:	2452
Remark:	PK	J	



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2454.1489	32.34	13.51	-43.11	80.98	83.72	74.00	-9.72	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.44	52.09	74.00	21.91	Pass	Vertical













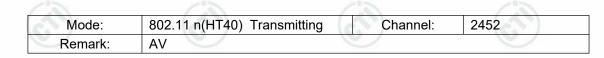


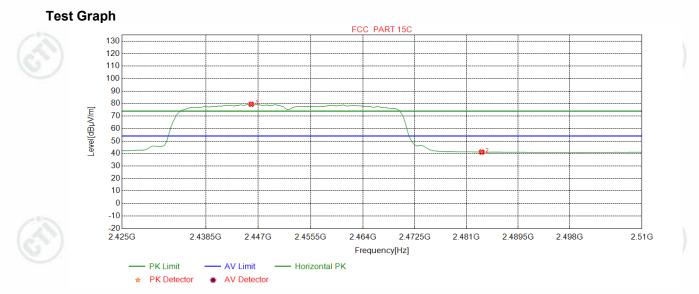












NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2445.8511	32.32	13.51	-43.11	76.72	79.44	54.00	-25.44	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	38.51	41.16	54.00	12.84	Pass	Horizontal









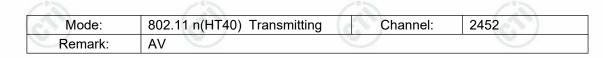


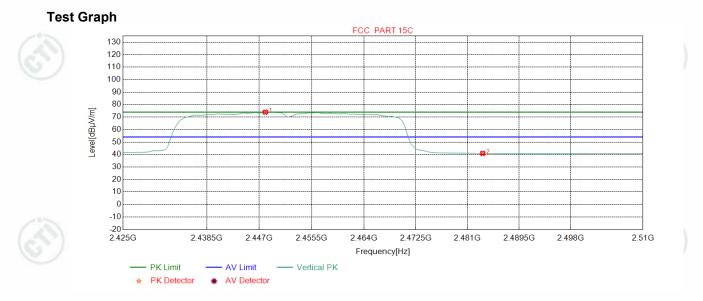












NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2447.9787	32.33	13.52	-43.11	71.20	73.94	54.00	-19.94	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	38.29	40.94	54.00	13.06	Pass	Vertical

## Note:

1) Through Pre-scan transmitting mode and charge+transmitter mode with all kind of modulation and data rate, find the 11Mbps of rate is the worst case of 802.11b; 6Mbpsof rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40), and then 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 - Correct Factor

Correct Factor = Preamplifier Factor-Antenna Factor-Cable Factor







# Page 98 of 121

# **Appendix I): Radiated Spurious Emissions**

<b>Receiver Setup:</b>		6	123			
G.	Frequency	Detector	RBW	VBW	Remark	
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak	
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average	
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak	-0-
9	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak	
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average	S)
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak	
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak	
100	Above 1011-	Peak	1MHz	3MHz	Peak	
	Above 1GHz	Peak	1MHz	10Hz	Average	]
		100			Sa" /	-

#### Test Procedure:

Limit:

#### Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.

#### Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter( Above 18GHz the distance is 1 meter and table is 1.5 meter).
  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 worse case.
- j. Repeat above procedures until all frequencies measured was complete.

Frequency	Field strength (microvolt/meter)	Limit (dBµV/m)	Remark	Measurement distance (m)	
0.009MHz-0.490MHz	r /	~	-	300	
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30	
1.705MHz-30MHz	30	-	25	30	
30MHz-88MHz	100	40.0	Quasi-peak	3	
88MHz-216MHz	150	43.5	Quasi-peak	3	
216MHz-960MHz	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.





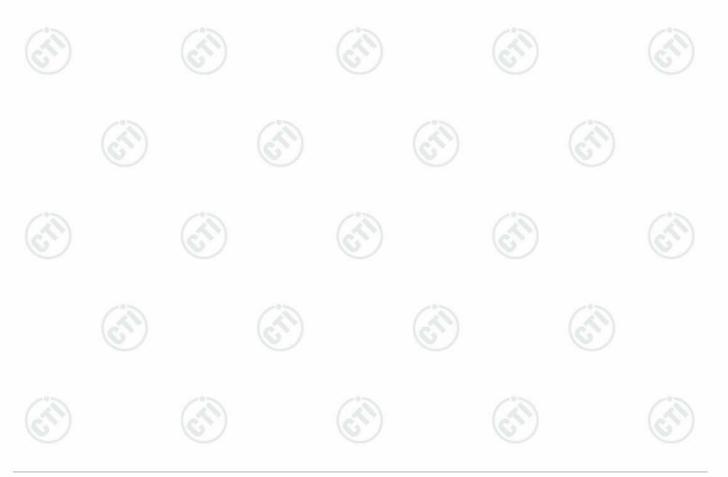


# Radiated Spurious Emissions test Data:

## Radiated Emission below 1GHz

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 11b, Channel 2437MHz was selected as the worst condition. The test data of the worst-case condition was recorded in this report.

-		12					13			
Mode	:	802.11	b Transn	nitting		Channel:		2437		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	96.0636	10.37	1.13	-31.97	56.18	35.71	43.50	7.79	Pass	Н
2	148.5459	7.50	1.44	-32.01	63.29	40.22	43.50	3.28	Pass	Н
3	217.4227	11.35	1.76	-31.95	59.59	40.75	46.00	5.25	Pass	Н
4	400.0920	15.40	2.38	-31.70	58.28	44.36	46.00	1.64	Pass	Н
5	594.0144	18.88	2.92	-31.75	49.21	39.26	46.00	6.74	Pass	Н
6	913.4673	22.18	3.62	-31.45	41.34	35.69	46.00	10.31	Pass	Н
7	39.5070	12.14	0.71	-31.31	49.22	30.76	40.00	9.24	Pass	V
8	148.5459	7.50	1.44	-32.01	54.09	31.02	43.50	12.48	Pass	V
9	228.2878	11.64	1.79	-31.92	49.35	30.86	46.00	15.14	Pass	V
10	400.0920	15.40	2.38	-31.70	54.58	40.66	46.00	5.34	Pass	V
11	600.0290	19.00	2.96	-31.50	44.96	35.42	46.00	10.58	Pass	V
12	905.3185	22.13	3.60	-31.44	36.44	30.73	46.00	15.27	Pass	V







# Page 100 of 121

## Transmitter Emission above 1GHz

	(	(				1.63	1	1.631			
Mode:		802.11 b	Transmit	ting		Channel:		2412			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1194.8195	28.09	2.66	-42.89	55.24	43.10	74.00	30.90	Pass	н	Peak
2	1980.0980	31.57	3.45	-43.15	59.58	51.45	74.00	22.55	Pass	Н	Peak
3	2772.3772	32.84	4.19	-43.10	57.54	51.47	74.00	22.53	Pass	Н	Peak
4	3564.0376	33.45	4.41	-43.08	53.01	47.79	74.00	26.21	Pass	Н	Peak
5	4356.0904	34.30	4.51	-42.85	53.22	49.18	74.00	24.82	Pass	Н	Peak
6	7601.3068	36.56	6.10	-42.12	51.08	51.62	74.00	22.38	Pass	Н	Peak
7	1188.2188	28.09	2.67	-42.91	62.07	49.92	74.00	24.08	Pass	V	Peak
8	1798.8799	30.37	3.32	-42.71	56.86	47.84	74.00	26.16	Pass	V	Peak
9	1980.0980	31.57	3.45	-43.15	57.55	49.42	74.00	24.58	Pass	V	Peak
10	2771.9772	32.84	4.19	-43.11	56.11	50.03	74.00	23.97	Pass	V	Peak
11	4356.0904	34.30	4.51	-42.85	55.81	51.77	74.00	22.23	Pass	V	Peak
12	9254.4170	37.65	6.60	-42.05	49.03	51.23	74.00	22.77	Pass	V	Peak

Mode:		802.11 b	Transmit	ting		Channel:		2437			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1980.0980	31.57	3.45	-43.15	60.31	52.18	74.00	21.82	Pass	Н	Peak
2	2771.9772	32.84	4.19	-43.11	57.40	51.32	74.00	22.68	Pass	Н	Peak
3	3565.0377	33.45	4.41	-43.09	53.86	48.63	74.00	25.37	Pass	Н	Peak
4	4356.0904	34.30	4.51	-42.85	52.15	48.11	74.00	25.89	Pass	Н	Peak
5	7641.3094	36.54	6.14	-42.12	49.57	50.13	74.00	23.87	Pass	Н	Peak
6	10418.4946	38.39	7.13	-42.02	49.13	52.63	74.00	21.37	Pass	Н	Peak
7	1188.0188	28.09	2.67	-42.91	61.59	49.44	74.00	24.56	Pass	V	Peak
8	1980.2980	31.57	3.45	-43.15	57.57	49.44	74.00	24.56	Pass	V	Peak
9	2772.9773	32.84	4.19	-43.10	56.25	50.18	74.00	23.82	Pass	V	Peak
10	3564.0376	33.45	4.41	-43.08	52.87	47.65	74.00	26.35	Pass	V	Peak
11	4356.0904	34.30	4.51	-42.85	56.24	52.20	74.00	21.80	Pass	V	Peak
12	10575.5050	38.52	6.95	-42.00	49.37	52.84	74.00	21.16	Pass	V	Peak









# Page 101 of 121

Mode:		802.11 b	Transmi	tting		Channel:		2462			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1980.0980	31.57	3.45	-43.15	60.15	52.02	74.00	21.98	Pass	Н	Peak
2	2771.9772	32.84	4.19	-43.11	57.69	51.61	74.00	22.39	Pass	Н	Peak
3	3564.0376	33.45	4.41	-43.08	52.68	47.46	74.00	26.54	Pass	Н	Peak
4	4356.0904	34.30	4.51	-42.85	52.19	48.15	74.00	25.85	Pass	Н	Peak
5	7070.2714	36.17	5.72	-42.19	48.72	48.42	74.00	25.58	Pass	Н	Peak
6	9230.4154	37.65	6.54	-42.04	49.49	51.64	74.00	22.36	Pass	Н	Peak
7	1188.0188	28.09	2.67	-42.91	63.00	50.85	74.00	23.15	Pass	V	Peak
8	1980.2980	31.57	3.45	-43.15	58.00	49.87	74.00	24.13	Pass	V	Peak
9	2771.9772	32.84	4.19	-43.11	55.56	49.48	74.00	24.52	Pass	V	Peak
10	4357.0905	34.30	4.52	-42.86	53.78	49.74	74.00	24.26	Pass	V	Peak
11	9101.4068	37.68	6.44	-42.02	49.21	51.31	74.00	22.69	Pass	V	Peak
12	11307.5538	38.78	7.34	-42.00	48.94	53.06	74.00	20.94	Pass	V	Peak

Mode:		802.11 g	Transmi	tting		Channel:		2412			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remak
1	1187.8188	28.09	2.67	-42.91	62.50	50.35	74.00	23.65	Pass	н	Peak
2	1980.2980	31.57	3.45	-43.15	57.10	48.97	74.00	25.03	Pass	н	Peak
3	2771.9772	32.84	4.19	-43.11	57.67	51.59	74.00	22.41	Pass	н	Peak
4	3564.0376	33.45	4.41	-43.08	54.93	49.71	74.00	24.29	Pass	Н	Peak
5	4356.0904	34.30	4.51	-42.85	52.05	48.01	74.00	25.99	Pass	н	Peak
6	8824.3883	37.31	6.39	-41.99	49.43	51.14	74.00	22.86	Pass	Н	Peak
7	1188.2188	28.09	2.67	-42.91	59.46	47.31	74.00	26.69	Pass	V	Peak
8	1980.0980	31.57	3.45	-43.15	58.93	50.80	74.00	23.20	Pass	V	Peak
9	2772.7773	32.84	4.19	-43.10	55.22	49.15	74.00	24.85	Pass	V	Peak
10	3564.0376	33.45	4.41	-43.08	52.18	46.96	74.00	27.04	Pass	V	Peak
11	4356.0904	34.30	4.51	-42.85	53.96	49.92	74.00	24.08	Pass	V	Peak
12	8789.3860	37.24	6.35	-42.00	49.36	50.95	74.00	23.05	Pass	V	Peak
		1.2					1.1			1.2	

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Report No. : EED32M00257801

2437			
y Remak			
Peak			

Mode:		802.11 g	Transmi	tting		Channel:		2462			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remak
1	1485.0485	28.39	2.98	-43.04	58.13	46.46	74.00	27.54	Pass	н	Peak
2	2772.3772	32.84	4.19	-43.10	59.88	53.81	74.00	20.19	Pass	н	Peak
3	4356.0904	34.30	4.51	-42.85	53.21	49.17	74.00	24.83	Pass	н	Peak
4	7804.3203	36.48	6.09	-42.16	49.26	49.67	74.00	24.33	Pass	Н	Peak
5	9155.4104	37.67	6.45	-42.03	49.32	51.41	74.00	22.59	Pass	Н	Peak
6	10217.4812	38.10	6.85	-42.06	50.56	53.45	74.00	20.55	Pass	Н	Peak
7	1187.6188	28.09	2.67	-42.91	64.94	52.79	74.00	21.21	Pass	V	Peak
8	1980.2980	31.57	3.45	-43.15	61.29	53.16	74.00	20.84	Pass	V	Peak
9	2772.1772	32.84	4.19	-43.10	58.17	52.10	74.00	21.90	Pass	V	Peak
10	3564.0376	33.45	4.41	-43.08	55.33	50.11	74.00	23.89	Pass	V	Peak
11	4356.0904	34.30	4.51	-42.85	53.98	49.94	74.00	24.06	Pass	V	Peak
12	9232.4155	37.65	6.54	-42.04	48.76	50.91	74.00	23.09	Pass	V	Peak
		1.20					1 1			12	

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Remak

Peak

Mode:		802.11 n	(HT20)			Channel:		2412		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	1105.6106	28.01	2.57	-42.99	57.58	45.17	74.00	28.83	Pass	Н
2	1485.0485	28.39	2.98	-43.04	57.81	46.14	74.00	27.86	Pass	Н
3	4356.0904	34.30	4.51	-42.85	54.21	50.17	74.00	23.83	Pass	Н
4	6425.2283	35.89	5.42	-42.52	49.34	48.13	74.00	25.87	Pass	Н
5	7656.3104	36.54	6.16	-42.13	48.56	49.13	74.00	24.87	Pass	Н
6	10668.5112	38.53	7.01	-41.99	49.12	52.67	74.00	21.33	Pass	Н
7	1188.0188	28.09	2.67	-42.91	64.58	52.43	74.00	21.57	Pass	V
8	2772.1772	32.84	4.19	-43.10	57.99	51.92	74.00	22.08	Pass	V
9	3564.0376	33.45	4.41	-43.08	54.52	49.30	74.00	24.70	Pass	V
10	4356.0904	34.30	4.51	-42.85	54.05	50.01	74.00	23.99	Pass	V
11	7593.3062	36.56	6.07	-42.12	48.44	48.95	74.00	25.05	Pass	V
12	9191.4128	37.66	6.44	-42.03	49.14	51.21	74.00	22.79	Pass	V
$\sim$					S		N. N. N.	/		No.

Mode:		802.11 n	(HT20)			Channel:		2437			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remak
1	1484.8485	28.38	2.98	-43.03	56.47	44.80	74.00	29.20	Pass	н	Peak
2	2772.1772	32.84	4.19	-43.10	59.25	53.18	74.00	20.82	Pass	Н	Peak
3	4356.0904	34.30	4.51	-42.85	52.81	48.77	74.00	25.23	Pass	Н	Peak
4	6474.2316	35.89	5.50	-42.50	49.82	48.71	74.00	25.29	Pass	Н	Peak
5	7662.3108	36.54	6.18	-42.14	49.66	50.24	74.00	23.76	Pass	Н	Peak
6	10158.4772	38.02	6.86	-42.07	48.94	51.75	74.00	22.25	Pass	Н	Peak
7	1188.0188	28.09	2.67	-42.91	65.05	52.90	74.00	21.10	Pass	V	Peak
8	2772.1772	32.84	4.19	-43.10	58.92	52.85	74.00	21.15	Pass	V	Peak
9	4356.0904	34.30	4.51	-42.85	54.26	50.22	74.00	23.78	Pass	V	Peak
10	6480.2320	35.90	5.49	-42.51	48.82	47.70	74.00	26.30	Pass	V	Peak
11	9268.4179	37.65	6.61	-42.05	48.92	51.13	74.00	22.87	Pass	V	Peak
12	10794.5196	38.56	7.19	-42.00	49.00	52.75	74.00	21.25	Pass	V	Peak
S		67	1		(5)		6	· )		6	1



Hotline: 400-6788-333











# Page 104 of 121

Mode:		802.11 n	(HT20) (6	6.5Mbps)		Channel:		2462			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remak
1	1287.0287	28.19	2.73	-42.80	56.84	44.96	74.00	29.04	Pass	Н	Peak
2	4356.0904	34.30	4.51	-42.85	53.22	49.18	74.00	24.82	Pass	Н	Peak
3	5674.1783	35.28	4.99	-42.60	49.63	47.30	74.00	26.70	Pass	Н	Peak
4	7656.3104	36.54	6.16	-42.13	49.48	50.05	74.00	23.95	Pass	Н	Peak
5	9185.4124	37.66	6.44	-42.03	48.83	50.90	74.00	23.10	Pass	Н	Peak
6	11350.5567	38.81	7.32	-42.00	48.90	53.03	74.00	20.97	Pass	Н	Peak
7	2772.1772	32.84	4.19	-43.10	58.17	52.10	74.00	21.90	Pass	V	Peak
8	3564.0376	33.45	4.41	-43.08	56.00	50.78	74.00	23.22	Pass	V	Peak
9	4356.0904	34.30	4.51	-42.85	54.13	50.09	74.00	23.91	Pass	V	Peak
10	6914.2610	36.07	5.86	-42.26	49.17	48.84	74.00	25.16	Pass	V	Peak
11	9151.4101	37.67	6.45	-42.03	49.26	51.35	74.00	22.65	Pass	V	Peak
12	11178.5452	38.71	7.21	-42.00	49.26	53.18	74.00	20.82	Pass	V	Peak
								1			1

Mode:		802.11 n (	(HT40) (1	3.5Mbps)		Channel:		2422			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remak
1	1182.4182	28.08	2.67	-42.91	58.83	46.67	74.00	27.33	Pass	Н	Peak
2	1484.8485	28.38	2.98	-43.03	58.39	46.72	74.00	27.28	Pass	Н	Peak
3	3565.0377	33.45	4.41	-43.09	49.98	44.75	74.00	29.25	Pass	Н	Peak
4	5473.1649	34.97	5.04	-42.61	49.84	47.24	74.00	26.76	Pass	Н	Peak
5	6981.2654	36.09	5.73	-42.21	48.90	48.51	74.00	25.49	Pass	Н	Peak
6	9719.4480	37.69	6.66	-42.10	49.24	51.49	74.00	22.51	Pass	Н	Peak
7	2772.3772	32.84	4.19	-43.10	58.68	52.61	74.00	21.39	Pass	V	Peak
8	3564.0376	33.45	4.41	-43.08	55.28	50.06	74.00	23.94	Pass	V	Peak
9	4356.0904	34.30	4.51	-42.85	54.50	50.46	74.00	23.54	Pass	V	Peak
10	6381.2254	35.88	5.37	-42.53	50.17	48.89	74.00	25.11	Pass	V	Peak
11	9168.4112	37.67	6.45	-42.04	49.32	51.40	74.00	22.60	Pass	V	Peak
12	11797.5865	39.14	7.46	-41.94	49.06	53.72	74.00	20.28	Pass	V	Peak
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### Report No. : EED32M00257801

Mode:		802.11 n (	HT40)			Channel:		2437			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remak
1	1190.4190	28.09	2.67	-42.90	56.26	44.12	74.00	29.88	Pass	н	Peak
2	1975.0975	31.54	3.45	-43.15	53.38	45.22	74.00	28.78	Pass	н	Peak
3	2772.1772	32.84	4.19	-43.10	59.96	53.89	74.00	20.11	Pass	Н	Peak
4	4356.0904	34.30	4.51	-42.85	52.59	48.55	74.00	25.45	Pass	н	Peak
5	6858.2572	36.04	5.55	-42.28	49.96	49.27	74.00	24.73	Pass	н	Peak
6	9275.4184	37.64	6.62	-42.05	49.07	51.28	74.00	22.72	Pass	Н	Peak
7	1193.4193	28.09	2.66	-42.89	54.86	42.72	74.00	31.28	Pass	V	Peak
8	2376.1376	32.23	3.89	-43.13	56.13	49.12	74.00	24.88	Pass	V	Peak
9	4356.0904	34.30	4.51	-42.85	54.88	50.84	74.00	23.16	Pass	V	Peak
10	6932.2622	36.07	5.83	-42.23	49.45	49.12	74.00	24.88	Pass	V	Peak
11	9022.4015	37.70	6.40	-42.01	49.09	51.18	74.00	22.82	Pass	V	Peak
12	10247.4832	38.15	6.82	-42.05	49.73	52.65	74.00	21.35	Pass	V	Peak
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de: 802.11 n (HT40)				Channel:		2452				
Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remak
1194.0194	28.09	2.66	-42.89	59.53	47.39	74.00	26.61	Pass	Н	Peak
2442.5443	32.32	3.97	-43.12	56.50	49.67	74.00	24.33	Pass	Н	Peak
4356.0904	34.30	4.51	-42.85	52.76	48.72	74.00	25.28	Pass	Н	Peak
6895.2597	36.06	5.84	-42.26	50.08	49.72	74.00	24.28	Pass	Н	Peak
9176.4118	37.66	6.44	-42.03	49.37	51.44	74.00	22.56	Pass	Н	Peak
10308.4872	38.23	6.87	-42.04	49.70	52.76	74.00	21.24	Pass	Н	Peak
1188.2188	28.09	2.67	-42.91	62.27	50.12	74.00	23.88	Pass	V	Peak
2772.3772	32.84	4.19	-43.10	58.09	52.02	74.00	21.98	Pass	V	Peak
3564.0376	33.45	4.41	-43.08	56.06	50.84	74.00	23.16	Pass	V	Peak
4356.0904	34.30	4.51	-42.85	57.31	53.27	74.00	20.73	Pass	V	Peak
7545.3030	36.58	5.86	-42.11	48.41	48.74	74.00	25.26	Pass	V	Peak
9169.4113	37.67	6.45	-42.04	50.13	52.21	74.00	21.79	Pass	V	Peak
	[MHz] 1194.0194 2442.5443 4356.0904 6895.2597 9176.4118 10308.4872 1188.2188 2772.3772 3564.0376 4356.0904 7545.3030	Freq. [MHz]Factor [dB]1194.019428.092442.544332.324356.090434.306895.259736.069176.411837.6610308.487238.231188.218828.092772.377232.843564.037633.454356.090434.307545.303036.58	Freq. [MHz]Factor [dB]loss [dB]1194.019428.092.662442.544332.323.974356.090434.304.516895.259736.065.849176.411837.666.4410308.487238.236.871188.218828.092.672772.377232.844.193564.037633.454.414356.090434.304.517545.303036.585.86	Freq. [MHz]Factor [dB]loss [dB]gain [dB]1194.019428.092.66-42.892442.544332.323.97-43.124356.090434.304.51-42.856895.259736.065.84-42.269176.411837.666.44-42.0310308.487238.236.87-42.041188.218828.092.67-42.912772.377232.844.19-43.103564.037633.454.41-43.084356.090434.304.51-42.857545.303036.585.86-42.11	Freq. [MHz]Factor [dB]loss [dB]gain [dB]Reading [dB]1194.019428.092.66-42.8959.532442.544332.323.97-43.1256.504356.090434.304.51-42.8552.766895.259736.065.84-42.2650.089176.411837.666.44-42.0349.3710308.487238.236.87-42.0449.701188.218828.092.67-42.9162.272772.377232.844.19-43.1058.093564.037633.454.41-43.0856.064356.090434.304.51-42.8557.317545.303036.585.86-42.1148.41	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Freq. [MHZ]Factor [dB]loss [dB]gain [dB]Reading [dBµV]Level [dBµV]Limit [dBµV/m]Margin [dBµV/m]Result1194.019428.092.66-42.8959.5347.3974.0026.61Pass2442.544332.323.97-43.1256.5049.6774.0024.33Pass4356.090434.304.51-42.8552.7648.7274.0025.28Pass6895.259736.065.84-42.2650.0849.7274.0024.28Pass9176.411837.666.44-42.0349.3751.4474.0022.56Pass10308.487238.236.87-42.0449.7052.7674.0021.24Pass1188.218828.092.67-42.9162.2750.1274.0023.88Pass3564.037633.454.41-43.0856.0650.8474.0023.16Pass4356.090434.304.51-42.8557.3153.2774.0020.73Pass3564.037633.454.41-43.0856.0650.8474.0020.73Pass7545.303036.585.86-42.1148.4148.7474.0025.26Pass	Freq. [MHz]Factor [dB]loss [dB]gain [dB]Reading [dBµV]Level [dBµV]Limit [dBµV/m]Margin [dB]ResultPolarity1194.019428.092.66-42.8959.5347.3974.0026.61PassH2442.544332.323.97-43.1256.5049.6774.0024.33PassH4356.090434.304.51-42.8552.7648.7274.0025.28PassH6895.259736.065.84-42.2650.0849.7274.0024.28PassH9176.411837.666.44-42.0349.3751.4474.0022.56PassH10308.487238.236.87-42.9162.2750.1274.0021.24PassH1188.218828.092.67-42.9162.2750.1274.0021.98PassV2772.377232.844.19-43.1058.0952.0274.0023.16PassV3564.037633.454.41-43.0856.0650.8474.0023.16PassV4356.090434.304.51-42.8557.3153.2774.0020.73PassV7545.303036.585.86-42.1148.4148.7474.0025.26PassV

#### Note:

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 - Correct Factor

Correct Factor = Preamplifier Factor – Antenna Factor – Cable Factor

2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.