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TEST REPORT

Product MaxiFlash XLink

Trade mark AUTEL

Model/Type reference MaxiFlash XLink

N/A **Serial Number**

EED32P80175802 Report Number **FCC ID** : WQ8-XLINKDC2221

Date of Issue : Feb. 28, 2023

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

Autel Intelligent Technology Corp.,Ltd. 7th-8th,10th Floor, Building B1, Zhiyuan, Xueyuan Rd, Xili, Nanshan, Shenzhen, 518055 China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Date of Issue:

Feb. 28, 2023

Check No.: 3423150223











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3 Version

Version No.	Date Description				
00	Feb. 28, 2023	Original			
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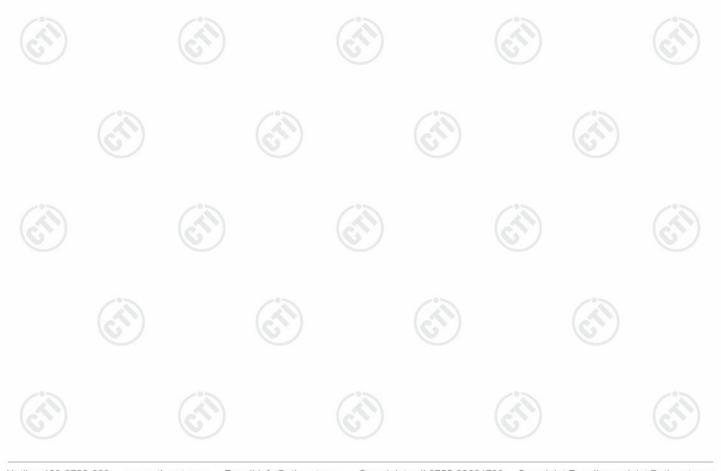
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4 Test Summary

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)	PASS	
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS	
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS	
Band edge measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS	
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS	
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS	

Remark:

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.







General Information

5.1 Client Information

Applicant:	Autel Intelligent Technology Corp.,Ltd.
Address of Applicant:	7th-8th,10th Floor, Building B1, Zhiyuan, Xueyuan Rd, Xili, Nanshan, Shenzhen,518055 China
Manufacturer:	Autel Intelligent Technology Corp.,Ltd.
Address of Manufacturer:	7th-8th,10th Floor, Building B1, Zhiyuan, Xueyuan Rd, Xili, Nanshan, Shenzhen,518055 China
Factory:	Autel Intelligent Technology Corp., Ltd. Guangming Branch
Address of Factory:	7F&6F, East Wing, Building 2, and 6F of Electronical Building, Yanxiang Industrial Zone, Gaoxin Rd, Dongzhou Community of Guangming New District, Shenzhen

5.2 General Description of EUT

Product Name:	MaxiFlash X	Link
Model No.:	MaxiFlash X	Link
Trade mark:	AUTEL	
Product Type:	Fix Location	
Operation Frequency:	IEEE 802.11	b/g/n(HT20): 2412MHz to 2462MHz n(HT40): 2422MHz to 2452MHz
Modulation Type:	IEEE for 802	2.11b: DSSS(CCK,DQPSK,DBPSK) 2.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) 2.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK,BPSk
Number of Channel:		b/g, IEEE 802.11n HT20: 11 Channels n HT40: 7 Channels
Channel Separation:	5MHz	
Test Software of EUT:	SecureCRT	(0.) (0.)
Antenna Type:	FPC Antenn	a
Antenna Gain:	2.0dBi	
Power Supply:	Adapter:	Model:GME36E-120300FDR Input:100-240V~50/60Hz 1.2A Output:12V==3.0A 36.0W
Test Voltage:	AC 120V	
Sample Received Date:	Feb. 16, 202	23
Sample tested Date:		23 to Feb. 22, 2023















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Operation	Frequency ea	ch of chann	el (802.11b/g/n	HT20)	•)	(67))
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 chann	el (802.11n HT	40)			
Channe	I Frequ	ency	Channel	Frequenc	cy Cha	nnel	Frequency
3	2422	MHz	6	2437MH	z	9	2452MHz
4	2427	MHz	7	2442MH	Z		
5	2432	MH ₂	8	2447MH	7		

Note:

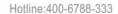
In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

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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5.3 Test Configuration

EUT Test Software Settin	ngs:		
Software:	SecureCRT	_0_	-0-
EUT Power Grade:	Default		(40)
Use test software to set th	e lowest frequency, the middle freq	quency and the highest frequence	cy keep

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
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	6.5Mbps
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).

5.4 Test Environment

sions:					
22~25.0 °C	(1)				
50~55 % RH	(0,)		(6,2)		(0,)
1010mbar					
22~25.0 °C		/°>		C	
50~55 % RH		((1))		(37)	
1010mbar					
22~25.0 °C	-07		-07		-07
50~55 % RH					
1010mbar	(0,)		(6.)		6
	22~25.0 °C 50~55 % RH 1010mbar 22~25.0 °C 50~55 % RH 1010mbar 22~25.0 °C 50~55 % RH	22~25.0 °C 50~55 % RH 1010mbar 22~25.0 °C 50~55 % RH 1010mbar 22~25.0 °C 50~55 % RH	22~25.0 °C 50~55 % RH 1010mbar 22~25.0 °C 50~55 % RH 1010mbar 22~25.0 °C 50~55 % RH	22~25.0 °C 50~55 % RH 1010mbar 22~25.0 °C 50~55 % RH 1010mbar 22~25.0 °C 50~55 % RH	22~25.0 °C 50~55 % RH 1010mbar 22~25.0 °C 50~55 % RH 1010mbar 22~25.0 °C 50~55 % RH

5.5 Description of Support Units

The EUT has been tested with associated equipment below. support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	DELL	Latitude 3490	FCC&CE	CTI
Adapter	GME	GME36E- 120300FDR	FCC&CE	Client

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



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5.6 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

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

No.	Item	Measurement Uncertainty		
S1	Radio Frequency	7.9 x 10 ⁻⁸		
2	DC newer conducted	0.46dB (30MHz-1GHz)		
2	RF power, conducted	0.55dB (1GHz-40GHz)		
		3.3dB (9kHz-30MHz)		
3	Dadioted Churique emission test	4.3dB (30MHz-1GHz)		
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)		
		3.4dB (18GHz-40GHz)		
~~	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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6 Equipment List

		RF test	system		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-23-2022	12-22-2023
Signal Generator	Keysight	N5182B	MY53051549	12-19-2022	12-18-2023
Signal Generator	Agilent	N5181A	MY46240094	12-19-2022	12-18-2023
DC Power	Keysight	E3642A	MY56376072	12-19-2022	12-18-2023
Wi-Fi 7GHz Band Extendder	JS Tonscend	TS-WF7U2	2206200002	06-11-2022	06-10-2023
RF control unit	JS Tonscend	JS0806-2	158060006	12-23-2022	12-22-2023
Communication test set	R&S	CMW500	120765	12-23-2022	12-22-2023
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-19-2022	12-18-2023
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	07-01-2022	06-15-2023
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	2.6.77.0518	(9





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1 2 3 3		A 10.1		1 2			
Conducted disturbance Test							
				Cal. date	Cal. Due date		
Equipment	Manufacturer	Model No.	Serial Number	(mm-dd-yyyy)	(mm-dd-yyyy)		
Receiver	R&S	ESCI	100435	05-06-2022	05-05-2023		
Temperature/ Humidity Indicator	Defu	TH128	1	<u></u>	(0,		
LISN	R&S	ENV216	100098	09-27-2022	09-26-2023		
Barometer	changchun	DYM3	1188	/0			

	3M Semi-a	nechoic Chamber (2)-	Radiated disturb	ance Test	
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3		05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	09/28/2022	09/27/2023
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/15/2021	04/14/2024
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/23/2022	12/23/2023
Multi device Controller	maturo	NCD/070/10711112	(i)	63)
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Microwave Preamplifier	Agilent	8449B	3008A02425	06/20/2022	06/19/2023













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		(1)			
		3M full-anechoi	c Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date
RSE Automatic test software	JS Tonscend	JS36-RSE	10166		- 6
Receiver	Keysight	N9038A	MY57290136	03-01-2022	02-28-2023
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-01-2022	02-28-2023
Spectrum Analyzer TRILOG	Keysight	N9030B	MY57140871	03-01-2022	02-28-2023
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	04-20-2022	04-19-2023
Preamplifier	EMCI	EMC001330	980563	04-13-2022	04-12-2023
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-29-2022	07-28-2023
Communication test set	R&S	CMW500	102898	12-23-2022	12-22-2023
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2022	04-10-2023
Fully Anechoic Chamber	TDK	FAC-3		01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	(D
Cable line	Times	SFT205-NMSM-2.50M	394812-0002		
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	(i)	(2
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	(C)	6
Cable line	Times	EMC104-NMNM-1000	SN160710		
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	/	<i>(</i> 2)
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	(D
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		
Cable line	Times	HF160-KMKM-3.00M	393493-0001		(2

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



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7 Test results and Measurement Data

7.1 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 FPC antenna. The best case gain of the antenna is 2.0dBi.





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7.2AC Power Line Conducted Emissions

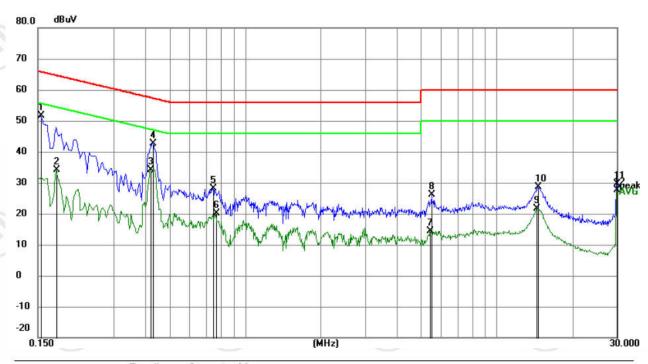
Test Requirement:	47 CFR Part 15C Section 15.3	207	(6.)				
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz					
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
Limit:	Fraguency range (MHz)	Limit (d	dBuV)				
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarithr	n of the frequency.					
Test Setup:	Shielding Room EUT AC Mains LISN1	Ground Reference Plane	Test Receiver				
Test Procedure:	1) The mains terminal disturb room. 2) The EUT was connected Impedance Stabilization Nimpedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN Provided the right of the same way a multiple socket outlet strip single LISN Provided the right of the same way a multiple socket outlet strip single LISN Provided the right of the socket outlet strip single LISN Provided the right of the socket outlet strip single LISN Provided the right of the same way a multiple socket outlet strip single LISN Provided the right of the single LISN provided the right of the second of the ference plane. The LISN unit under test and bor mounted on top of the ground reference plane. The LISN unit under test and bor mounted on top of the ground all of the interface call ANSI C63.10: 2013 on correct the second of the	to AC power source letwork) which Provide cables of all other SN 2, which was bonders the LISN 1 for the was used to connect leating of the LISN was aced upon a non-metal and for floor-standing a round reference plane that a vertical ground reference plane was bonded N 1 was placed 0.8 m and the aced to a ground refund reference plane. To all SN 1 and the EUT. It was at least 0.8 m froum emission, the relations the source of the control	through a LISN 1 (Line is a 50Ω/50μH + 5Ω linear units of the EUT were ed to the ground reference is unit being measured. A multiple power cables to a not exceeded. Allic table 0.8m above the rrangement, the EUT was ference plane. The rear of and reference plane. The to the horizontal ground from the boundary of the ference plane for LISNs this distance was between All other units of the EUT m the LISN 2. Eve positions of equipment according to				
Test Mode:	All modes were tested, only the 802.11b was recorded in the i		nannel of 1Mbps for				
Test Results:	Pass	(6.)	(0,)				





Measurement Data

Live line:



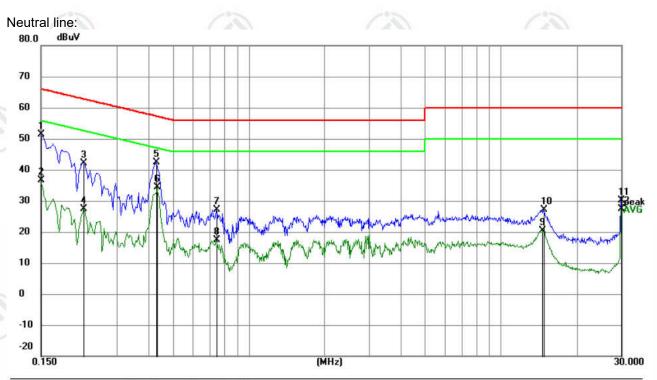
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1544	41.82	9.87	51.69	65.76	-14.07	QP	
2		0.1770	24.26	9.87	34.13	54.63	-20.50	AVG	
3	*	0.4200	24.05	9.97	34.02	47.45	-13.43	AVG	
4		0.4290	32.79	9.96	42.75	57.27	-14.52	QP	
5		0.7439	18.35	9.87	28.22	56.00	-27.78	QP	
6		0.7664	10.19	9.86	20.05	46.00	-25.95	AVG	
7		5.4330	4.70	9.78	14.48	50.00	-35.52	AVG	
8		5.5185	16.46	9.78	26.24	60.00	-33.76	QP	
9		14.4330	11.84	9.91	21.75	50.00	-28.25	AVG	
10		14.5410	18.83	9.92	28.75	60.00	-31.25	QP	
11		29.9985	19.54	10.03	29.57	60.00	-30.43	QP	
12		29.9985	17.68	10.03	27.71	50.00	-22.29	AVG	

- 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.	Reading Level	Correct Factor	Measure- ment		Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	41.46	9.87	51.33	66.00	-14.67	QP	
2		0.1500	26.79	9.87	36.66	56.00	-19.34	AVG	
3		0.2220	32.23	9.91	42.14	62.74	-20.60	QP	
4		0.2220	17.55	9.91	27.46	52.74	-25.28	AVG	
5		0.4290	32.38	9.96	42.34	57.27	-14.93	QP	
6	*	0.4335	24.48	9.96	34.44	47.19	-12.75	AVG	
7		0.7440	17.33	9.87	27.20	56.00	-28.80	QP	
8		0.7440	7.58	9.87	17.45	46.00	-28.55	AVG	
9		14.5725	10.57	9.92	20.49	50.00	-29.51	AVG	
10		14.7885	17.17	9.92	27.09	60.00	-32.91	QP	
11		29.9985	20.13	10.03	30.16	60.00	-29.84	QP	
12		29.9985	17.38	10.03	27.41	50.00	-22.59	AVG	

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.















7.2 Maximum Conducted Output Power

Test Requirement:	ment: 47 CFR Part 15C Section 15.247 (b)(3)					
Test Method:	ANSI C63.10 2013	_0_				
Test Setup:						
	Control Composite Composite Composite Composite Control Control Composite Addressing Addressin	RF test System Instrument				
	(0-)	(C.)				
Test Procedure:	1. PKPM1 Peak power meter measure The maximum peak conducted output broadband peak RF power meter. The bandwidth that is greater than or equuse a fast-responding diode detector 2. Method AVGPM-G Average power Method AVGPM-G is a measurement meter. Alternatively, measurements gated RF power meter Provided that that the power is measured only whe maximum power control level. Becauduring the ON time of the transmitter required.	at power may be measured using a me power meter shall have a video and to the DTS bandwidth and shall or measurement at using a gated RF average power may be performed using a wideband of the gate parameters are adjusted such the EUT is transmitting at its use the measurement is made only				
Limit:	30dBm					
Test Mode:	Refer to clause 5.3					
Test Results:	Refer to Appendix 2.4G WIFI					







7.3 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)						
Test Method:	ANSI C63.10 2013						
Test Setup:							
	Control Control Control Power Supply Attenuator Instrument Table RF test System Instrument						
	Remark: Offset=Cable loss+ attenuation factor.						
Test Procedure:	 a) Set RBW = 100 kHz. b) Set the VBW ≥[3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by frequencies associated with the two outermost amplitude poi (upper and lower frequencies) that are attenuated by 6 dB relative the maximum level measured in the fundamental emission. 						
Limit:	≥ 500 kHz						
Test Mode:	Refer to clause 5.3						
Test Results:	Refer to Appendix 2.4G WIFI						







7.4 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)	
Test Method:	ANSI C63.10 2013	
Test Setup:		(II)
	Costed Computer port(s) Acteons port(s)	RF test System nstrument
	Remark: Offset=Cable loss+ attenuation	factor.
Test Procedure:	 a) Set analyzer center frequency to DTS b) Set the span to 1.5 times the DTS bar c) Set the RBW to 3 kHz < RBW < 100 d) Set the VBW > [3 × RBW]. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to dete within the RBW. j) If measured value exceeds requirementan 3 kHz) and repeat. 	ndwidth.) kHz. ermine the maximum amplitude level
Limit:	≤8.00dBm/3kHz	
Test Mode:	Refer to clause 5.3	
Test Results:	Refer to Appendix 2.4G WIFI	







7.5 Band Edge Measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Control Congular Power Power Pool Table RF test System Instrument Table
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set RBW = 100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
 Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is Produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix 2.4G WIFI

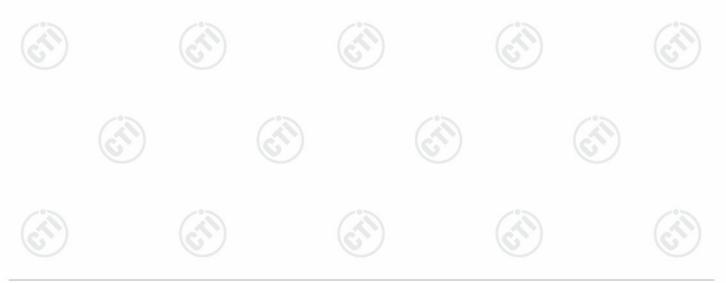






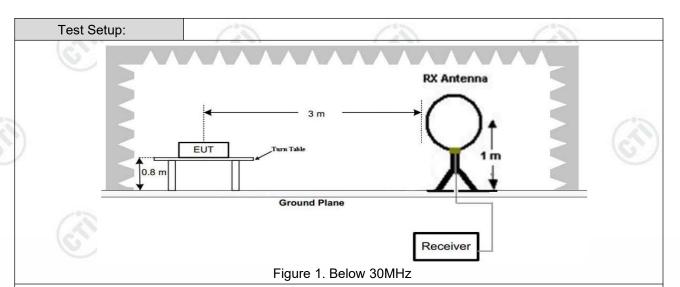
7.6 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205	6	
Test Method:	ANSI C63.10 2013					
Test Site:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	ber)	-5%
Receiver Setup:	Frequency	10	Detector	RBW	VBW	Remark
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MH	z	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		Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz		Quasi-peak	100 kH	z 300kHz	Quasi-peak
	Ah 4011-		Peak	1MHz	3MHz	Peak
	Above 1GHz		Peak	1MHz	10kHz	Average
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measureme distance (m
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-/0>	300
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	(A)	30
	1.705MHz-30MHz		30	-	-6	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), frequency emissions is limit applicable to the epeak emission level rad	20d quip	IB above the i oment under to	maximum est. This p	permitted ave	erage emission





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Antenna Antenna Tower

A Test Receiver

Test Receiver

Test Receiver

Test Receiver

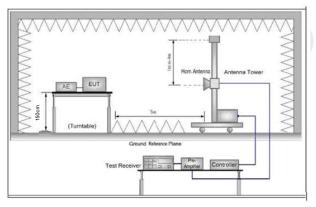


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: 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.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 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.

Note: For the radiated emission test above 1GHz:

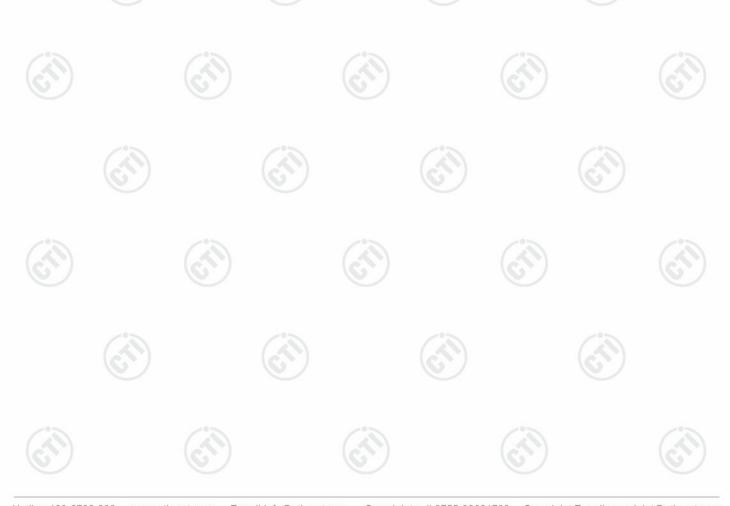
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- 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



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Test Results:	Pass
Test Mode:	Refer to clause 5.3
	i. Repeat above Procedures until all frequencies measured was complete.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	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.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	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 table was turned from 0 degrees to 360 degrees to find the maximum reading.
	horizontal and vertical polarizations of the antenna are set to make the measurement.



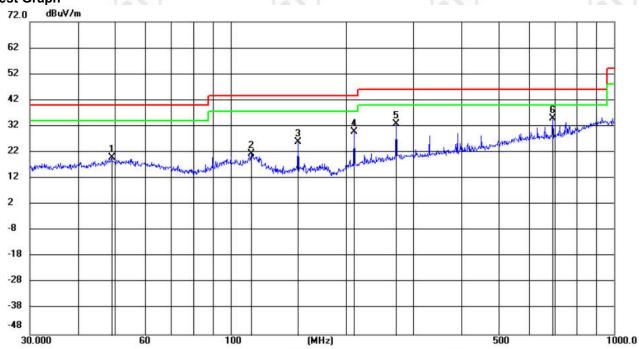




Radiated Spurious Emission below 1GHz:

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.

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	{	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		49.0144	5.40	14.62	20.02	40.00	-19.98	QP	200	4	
2		113.3162	8.34	13.23	21.57	43.50	-21.93	QP	200	4	
3		150.0108	14.37	11.58	25.95	43.50	-17.55	QP	200	59	
4		210.0481	16.50	13.28	29.78	43.50	-13.72	QP	100	238	
5		270.3748	17.24	15.67	32.91	46.00	-13.09	QP	100	208	
6	*	691.9865	11.90	23.10	35.00	46.00	-11.00	QP	200	4	









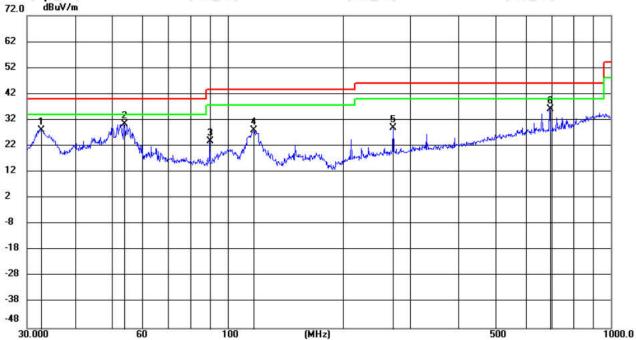






Vertical:





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		32.7486	15.36	12.82	28.18	40.00	-11.82	QP	100	262	
2	*	53.6932	16.16	14.37	30.53	40.00	-9.47	QP	100	303	
3		89.9047	12.59	11.37	23.96	43.50	-19.54	QP	100	130	
4		116.9495	15.25	12.92	28.17	43.50	-15.33	QP	100	325	
5		270.3748	13.15	15.67	28.82	46.00	-17.18	QP	100	4	
6		691.9867	13.17	23.10	36.27	46.00	-9.73	QP	100	4	





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Radiated Spurious Emission above 1GHz:

Remark: Through Pre-scan, for 20MHz Occupied Bandwidth, 802.11 b mode was the worst case; for 40MHz Occupied Bandwidth, 802.11 n(HT40) mode was the worst case; only the worst case of was recorded in the report.

Mode) :		802.11 b	Transmittir	ng		Channel:		2412 MHz
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1266.6267	0.98	40.07	41.05	74.00	32.95	Pass	Н	PK
2	1774.4774	3.19	39.21	42.40	74.00	31.60	Pass	Н	PK
3	3618.0412	-20.29	59.06	38.77	74.00	35.23	Pass	Н	PK
4	5631.1754	-14.16	52.92	38.76	74.00	35.24	Pass	Н	PK
5	8893.3929	-9.22	50.80	41.58	74.00	32.42	Pass	Н	PK
6	12552.6368	-4.45	50.60	46.15	74.00	27.85	Pass	Н	PK
7	1273.8274	0.99	40.25	41.24	74.00	32.76	Pass	V	PK
8	1861.8862	3.75	40.38	44.13	74.00	29.87	Pass	V	PK
9	3560.0373	-20.23	57.48	37.25	74.00	36.75	Pass	V	PK
10	5758.1839	-13.72	52.59	38.87	74.00	35.13	Pass	V	PK
11	8981.3988	-8.61	51.16	42.55	74.00	31.45	Pass	V	PK
12	12578.6386	-4.26	50.89	46.63	74.00	27.37	Pass	V	PK

Mode) :		802.11 b	Transmittir	ng		Channe	l:	2437 MHz
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1396.2396	1.38	39.41	40.79	74.00	33.21	Pass	Н	PK
2	1982.6983	4.46	38.08	42.54	74.00	31.46	Pass	Н	PK
3	3655.0437	-20.13	60.22	40.09	74.00	33.91	Pass	Н	PK
4	5685.179	-13.97	53.01	39.04	74.00	34.96	Pass	Н	PK
5	7770.318	-11.28	51.93	40.65	74.00	33.35	Pass	Н	PK
6	11977.5985	-5.38	51.83	46.45	74.00	27.55	Pass	Н	PK
7	1395.8396	1.38	39.62	41.00	74.00	33.00	Pass	V	PK
8	1971.8972	4.40	38.80	43.20	74.00	30.80	Pass	V	PK
9	3453.0302	-20.11	55.86	35.75	74.00	38.25	Pass	V	PK
10	5658.1772	-14.07	53.08	39.01	74.00	34.99	Pass	V	PK
11	9278.4186	-7.94	51.74	43.80	74.00	30.20	Pass	V	PK
12	11340.556	-6.43	51.54	45.11	74.00	28.89	Pass	V	PK













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	6.7.		(6.8)		60			6.7	
Mode	:		802.11 b T	Fransmitting			Channe	el:	2462 MHz
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1350.235	1.23	39.81	41.04	74.00	32.96	Pass	Н	PK
2	2021.9022	4.62	38.35	42.97	74.00	31.03	Pass	Н	PK
3	3693.0462	-19.96	61.50	41.54	74.00	32.46	Pass	Н	PK
4	5645.1763	-14.11	53.08	38.97	74.00	35.03	Pass	Н	PK
5	9240.416	-7.91	50.30	42.39	74.00	31.61	Pass	Н	PK
6	11869.5913	-5.91	51.68	45.77	74.00	28.23	Pass	Н	PK
7	1296.8297	1.05	39.55	40.60	74.00	33.40	Pass	V	PK
8	2019.502	4.62	38.89	43.51	74.00	30.49	Pass	V	PK
9	4270.0847	-17.46	54.24	36.78	74.00	37.22	Pass	V	PK
10	7295.2864	-11.69	52.86	41.17	74.00	32.83	Pass	V	PK
11	12535.6357	-4.57	51.09	46.52	74.00	27.48	Pass	V	PK
12	14360.7574	0.57	47.63	48.20	74.00	25.80	Pass	V	PK

Mode):		802.11 n(l	HT40) Tran	smitting		Channe	l:	2422 MHz
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1321.4321	1.13	39.93	41.06	74.00	32.94	Pass	Н	PK
2	1912.8913	4.10	37.87	41.97	74.00	32.03	Pass	Н	PK
3	3633.0422	-20.22	56.57	36.35	74.00	37.65	Pass	Н	PK
4	5806.1871	-13.57	53.36	39.79	74.00	34.21	Pass	Н	PK
5	9179.412	-8.05	50.70	42.65	74.00	31.35	Pass	Н	PK
6	13906.7271	-1.94	48.35	46.41	74.00	27.59	Pass	Н	PK
7	1400.6401	1.39	39.17	40.56	74.00	33.44	Pass	V	PK
8	1878.0878	3.87	38.09	41.96	74.00	32.04	Pass	V	PK
9	4257.0838	-17.57	53.92	36.35	74.00	37.65	Pass	V	PK
10	5946.1964	-13.31	52.31	39.00	74.00	35.00	Pass	V	PK
11	10280.4854	-6.59	50.40	43.81	74.00	30.19	Pass	V	PK
12	14372.7582	0.77	47.09	47.86	74.00	26.14	Pass	V	PK













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	100		20%		20%			100	
Mode:			802.11 n	(HT40) Trar	nsmitting		Channe	l:	2437 MHz
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1395.6396	1.38	39.60	40.98	74.00	33.02	Pass	Н	PK
2	1970.097	4.39	38.85	43.24	74.00	30.76	Pass	Н	PK
3	3656.0437	-20.12	57.08	36.96	74.00	37.04	Pass	Н	PK
4	4983.1322	-15.88	54.51	38.63	74.00	35.37	Pass	Н	PK
5	8888.3926	-9.24	51.38	42.14	74.00	31.86	Pass	Н	PK
6	12648.6432	-4.49	50.71	46.22	74.00	27.78	Pass	Н	PK
7	1240.424	0.90	40.28	41.18	74.00	32.82	Pass	V	PK
8	1980.498	4.45	39.03	43.48	74.00	30.52	Pass	V	PK
9	3443.0295	-20.12	55.61	35.49	74.00	38.51	Pass	V	PK
10	6297.2198	-12.93	52.31	39.38	74.00	34.62	Pass	V	PK
11	9294.4196	-7.95	51.57	43.62	74.00	30.38	Pass	V	PK
12	13879.7253	-1.90	49.27	47.37	74.00	26.63	Pass	V	PK

Mode:			802.11 n(HT40) Tran	smitting		Channe	l:	2452 MHz
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1401.8402	1.39	40.15	41.54	74.00	32.46	Pass	Н	PK
2	1754.4754	3.13	39.22	42.35	74.00	31.65	Pass	Н	PK
3	3677.0451	-20.02	59.64	39.62	74.00	34.38	Pass	Н	PK
4	5399.1599	-14.54	52.90	38.36	74.00	35.64	Pass	Н	PK
5	8572.3715	-10.40	52.44	42.04	74.00	31.96	Pass	Н	PK
6	11821.5881	-6.05	51.45	45.40	74.00	28.60	Pass	Н	PK
7	1386.6387	1.35	39.02	40.37	74.00	33.63	Pass	V	PK
8	1844.0844	3.61	39.08	42.69	74.00	31.31	Pass	V	PK
9	3518.0345	-20.09	56.81	36.72	74.00	37.28	Pass	V	PK
10	5579.1719	-14.32	53.19	38.87	74.00	35.13	Pass	V	PK
11	7048.2699	-11.70	52.65	40.95	74.00	33.05	Pass	V	PK
12	11371.5581	-6.28	50.84	44.56	74.00	29.44	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 + 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.

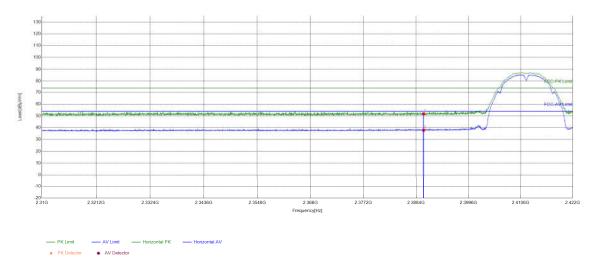




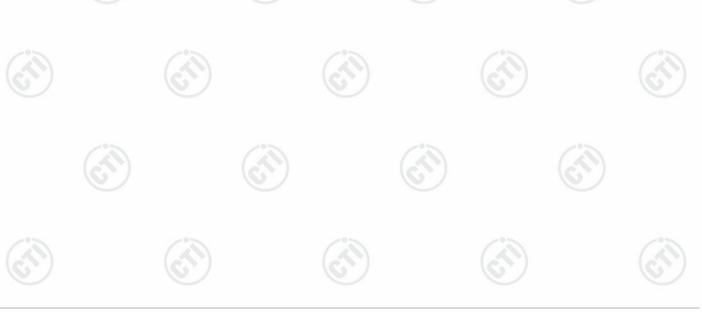
Restricted bands:

Test plot as follows:

Mode:	802.11 b Transmitting	Channel:	2412	10
Remark:	ANT1	(6)	/	1/2



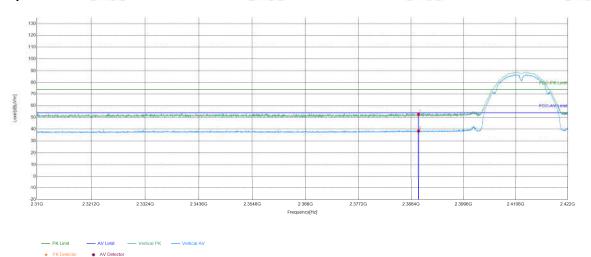
S	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
	1	2390	13.75	38.13	51.88	74.00	22.12	PASS	Horizontal	PK		
	2	2390	13.75	24.11	37.86	54.00	16.14	PASS	Horizontal	AV		



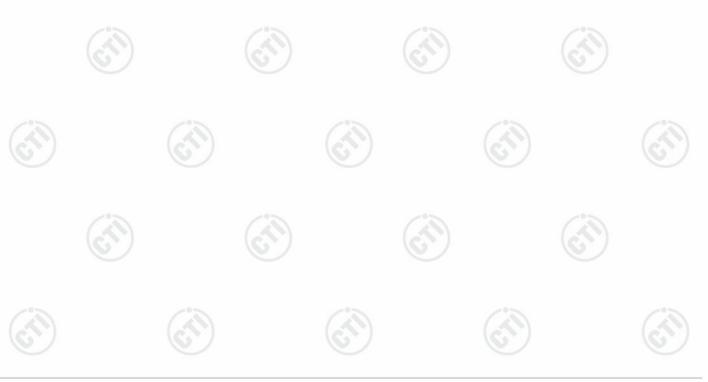




Mode:	802.11 b Transmitting	Channel:	2412
Remark:	ANT1		



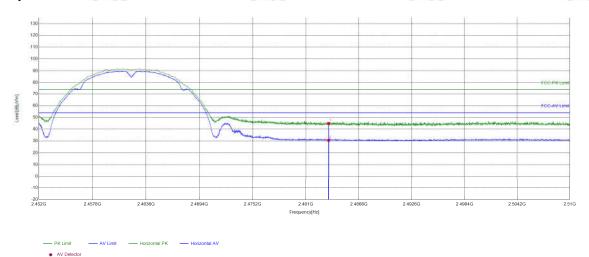
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2390	13.75	38.97	52.72	74.00	21.28	PASS	Vertical	PK
	2	2390	13.75	24.70	38.45	54.00	15.55	PASS	Vertical	AV



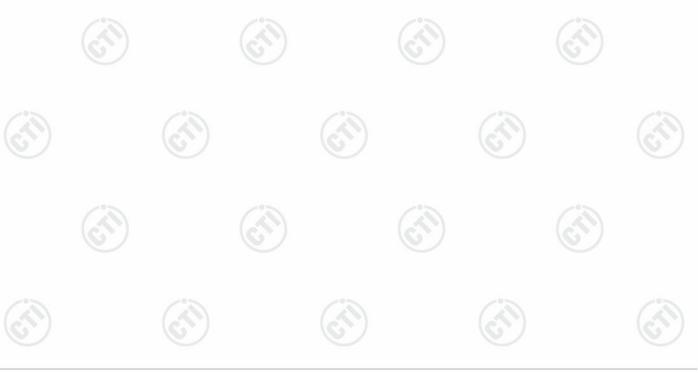


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Mode:	802.11 b Transmitting	Channel:	2462
Remark:	ANT1		



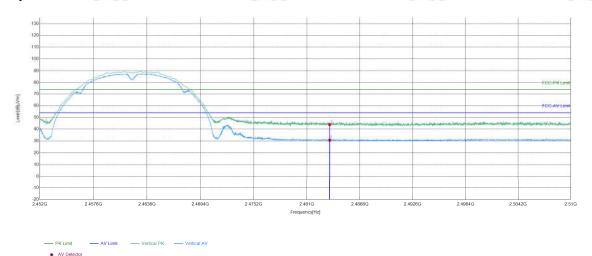
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2483.5	6.57	38.40	44.97	74.00	29.03	PASS	Horizontal	PK
	2	2483.5	6.57	24.01	30.58	54.00	23.42	PASS	Horizontal	AV



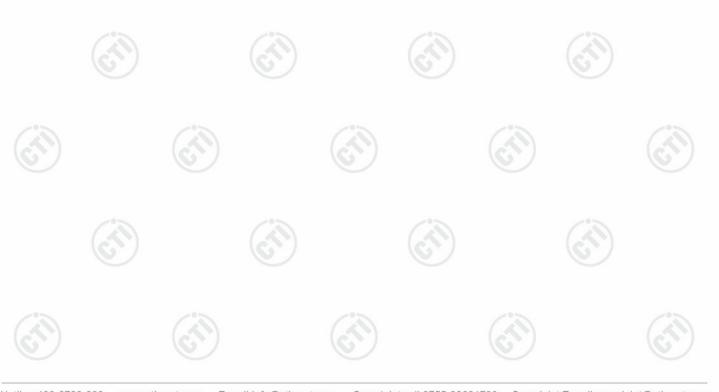




Mode:	802.11 b Transmitting	Channel:	2462
Remark:	ANT1		



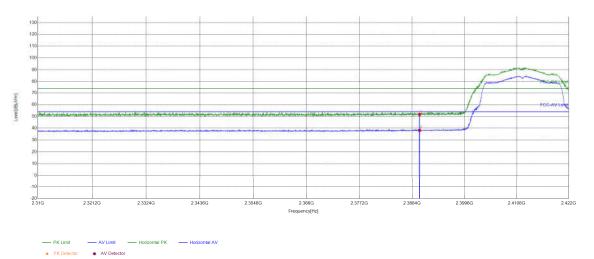
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2483.5	6.57	37.45	44.02	74.00	29.98	PASS	Vertical	PK
	2	2483.5	6.57	24.17	30.74	54.00	23.26	PASS	Vertical	AV



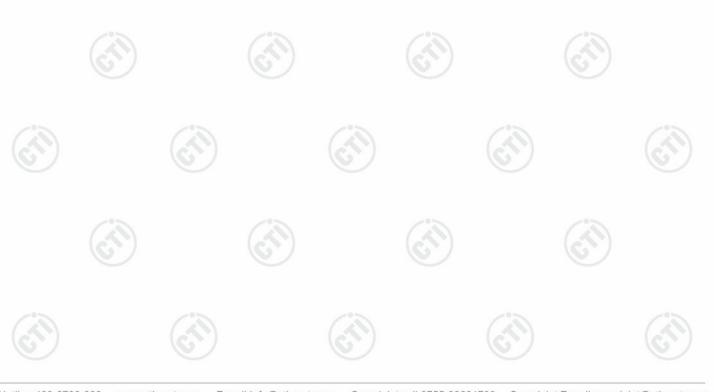




Mode:	802.11 g Transmitting	Channel:	2412
Remark:	ANT1		



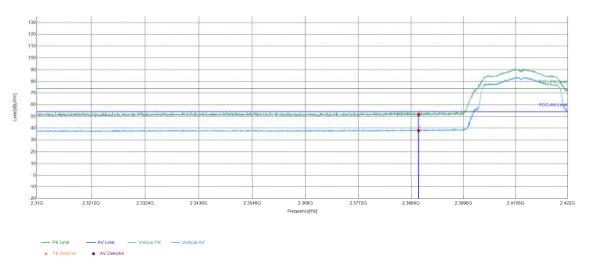
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2390	13.75	37.88	51.63	74.00	22.37	PASS	Horizontal	PK
	2	2390	13.75	24.46	38.21	54.00	15.79	PASS	Horizontal	AV



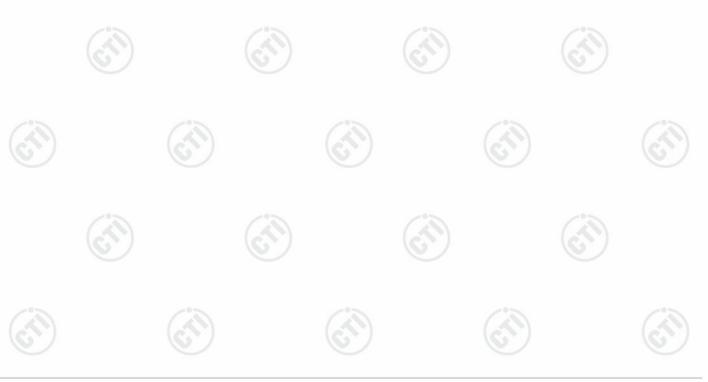




Mode:	802.11 g Transmitting	Channel:	2412
Remark:	ANT1		



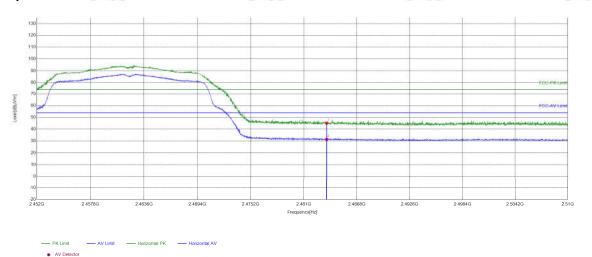
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	13.75	37.81	51.56	74.00	22.44	PASS	Vertical	PK
2	2390	13.75	24.25	38.00	54.00	16.00	PASS	Vertical	AV



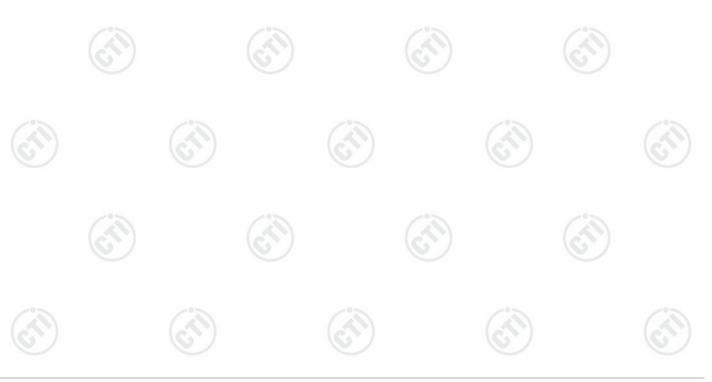


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Mode:	802.11 g Transmitting	Channel:	2462	
Remark:	ANT1			



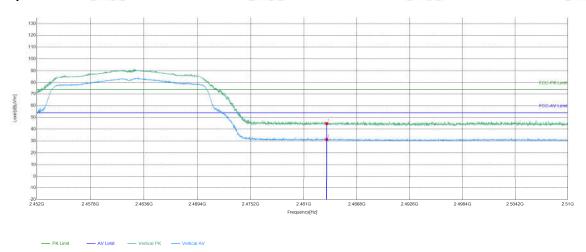
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2483.5	6.57	38.67	45.24	74.00	28.76	PASS	Horizontal	PK
	2	2483.5	6.57	24.82	31.39	54.00	22.61	PASS	Horizontal	AV



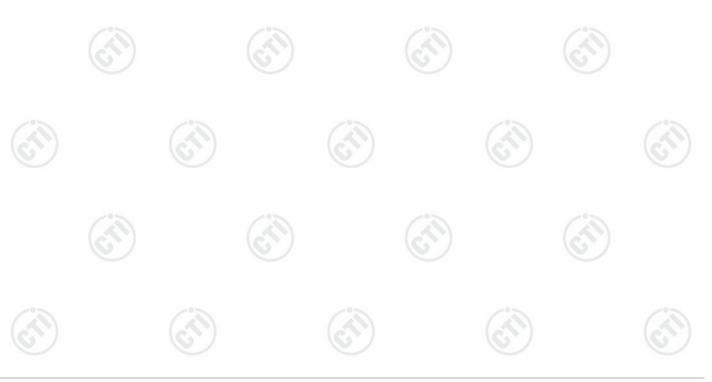




Mode:	802.11 g Transmitting	Channel:	2462
Remark:	ANT1	·	



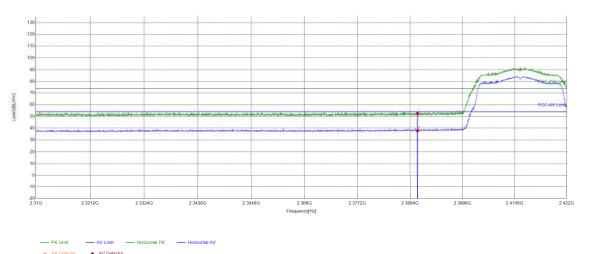
-										
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	6.57	38.23	44.80	74.00	29.20	PASS	Vertical	PK
	2	2483.5	6.57	24.75	31.32	54.00	22.68	PASS	Vertical	AV







Mode:	802.11 n(HT20) Transmitting	Channel:	2412
Remark:	ANT1		



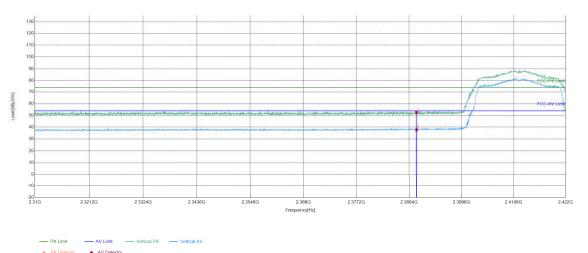
	Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
Ī	1	2390	13.75	38.97	52.72	74.00	21.28	PASS	Horizontal	PK	
	2	2390	13.75	24.16	37.91	54.00	16.09	PASS	Horizontal	AV	



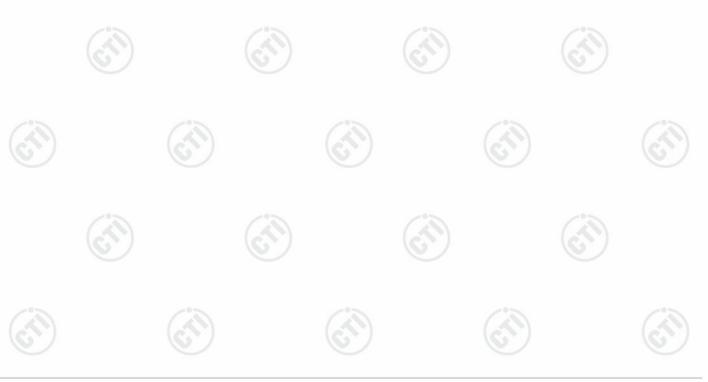




Mode:	802.11 n(HT20) Transmitting	Channel:	2412
Remark:	ANT1		



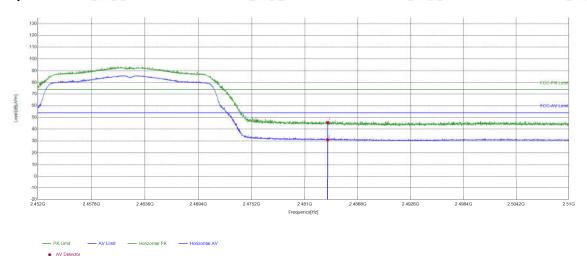
		A. 7								
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2390	13.75	38.86	52.61	74.00	21.39	PASS	Vertical	PK
	2	2390	13.75	24.05	37.80	54.00	16.20	PASS	Vertical	AV



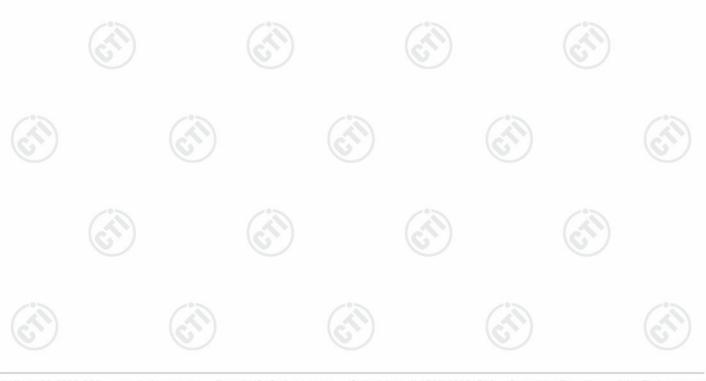


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Mode:	802.11 n(HT20) Transmitting	Channel:	2462
Remark:	ANT1		



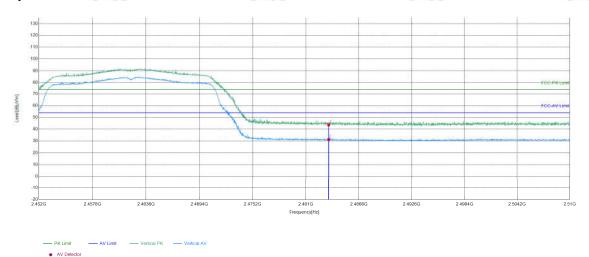
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2483.5	6.57	39.20	45.77	74.00	28.23	PASS	Horizontal	PK
	2	2483.5	6.57	24.45	31.02	54.00	22.98	PASS	Horizontal	AV





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Mode:	802.11 n(HT20) Transmitting	Channel:	2462
Remark:	ANT1		



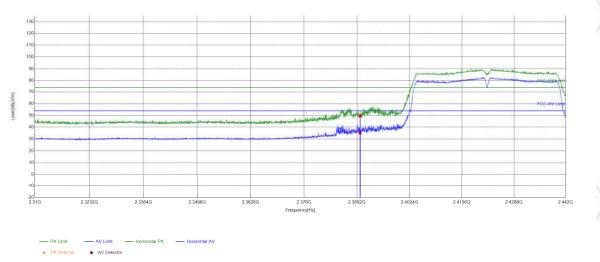
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2483.5	6.57	37.14	43.71	74.00	30.29	PASS	Vertical	PK
	2	2483.5	6.57	24.76	31.33	54.00	22.67	PASS	Vertical	AV



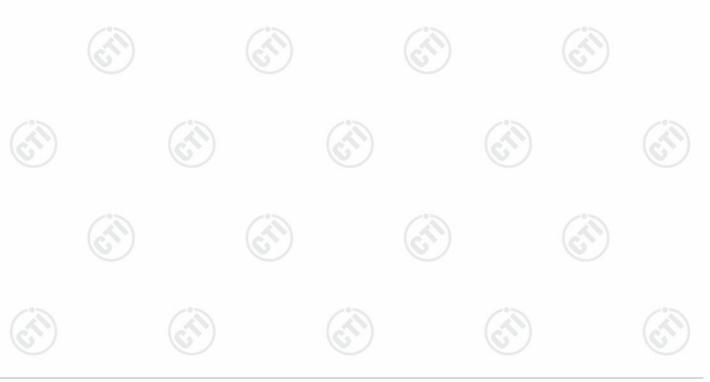




Mode:	802.11 n(HT40) Transmitting	Channel:	2422
Remark:	ANT1		



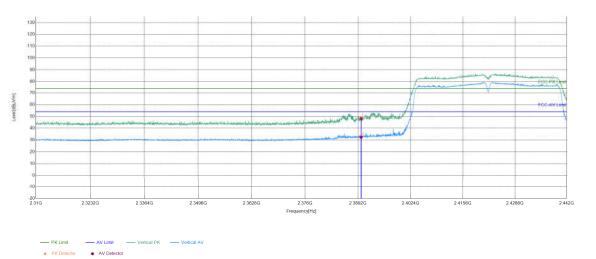
	Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
Ī	1	2390	5.77	43.70	49.47	74.00	24.53	PASS	Horizontal	PK	
	2	2390	5.77	29.23	35.00	54.00	19.00	PASS	Horizontal	AV	







Mode:	802.11 n(HT40) Transmitting	Channel:	2422
Remark:	ANT1		



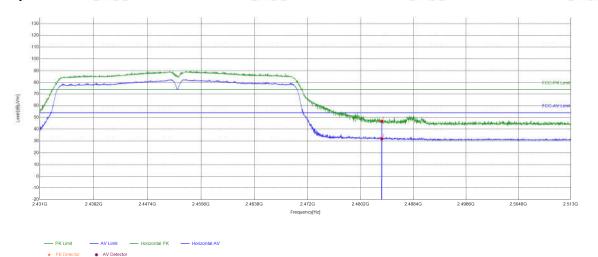
	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2390	5.77	42.60	48.37	74.00	25.63	PASS	Vertical	PK
	2	2390	5.77	26.66	32.43	54.00	21.57	PASS	Vertical	AV



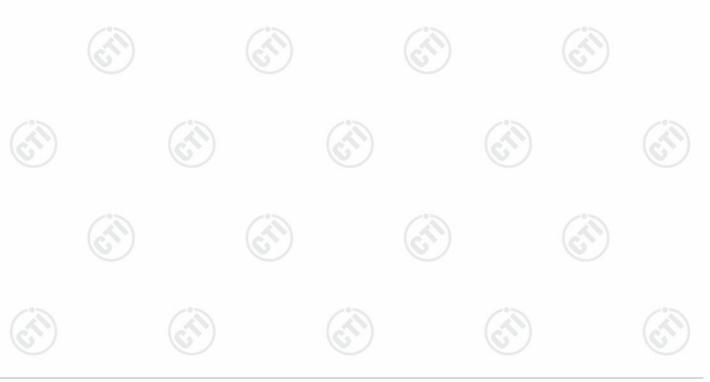




Mode:	802.11 n(HT40) Transmitting	Channel:	2452
Remark:	ANT1		



- 10										
	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	6.57	40.10	46.67	74.00	27.33	PASS	Horizontal	PK
	2	2483.5	6.57	25.39	31.96	54.00	22.04	PASS	Horizontal	AV

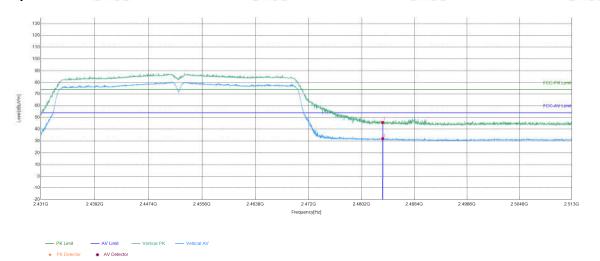




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Mode:	802.11 n(HT40) Transmitting	Channel:	2452
Remark:	ANT1		

Test Graph



	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	6.57	39.19	45.76	74.00	28.24	PASS	Vertical	PK
٩	2	2483.5	6.57	25.46	32.03	54.00	21.97	PASS	Vertical	AV

Note:

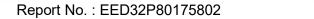
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor







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8 Appendix 2.4G WIFI

Refer to Appendix: 2.4G WIFI of EED32P80175802















































































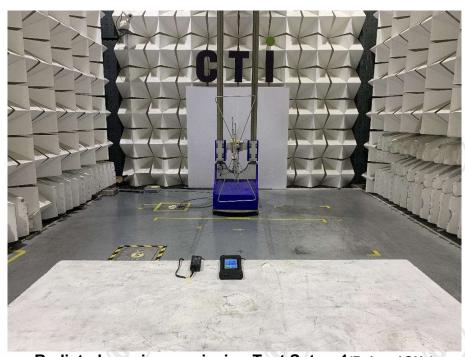




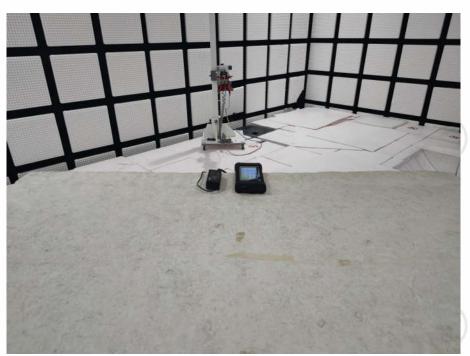


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9 PHOTOGRAPHS OF TEST SETUP



Radiated spurious emission Test Setup-1(Below 1GHz)



Radiated spurious emission Test Setup-2(Above 1GHz)





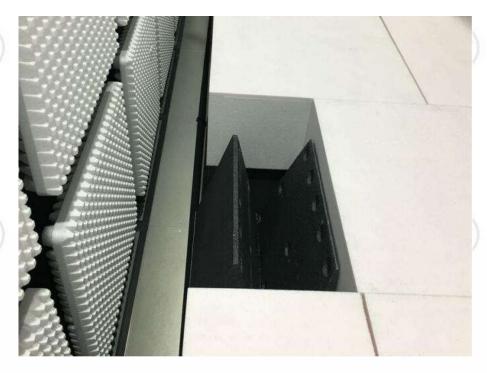




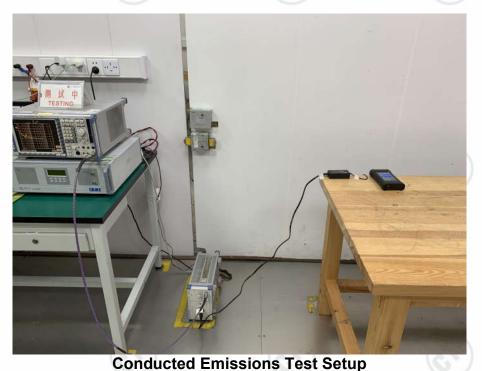




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Radiated spurious emission Test Setup-3(Above 1GHz) There are absorbing materials under the ground.













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10 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32P80175801 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written apProval of CTI, this report can't be reProduced except in full.

*** End of Report ***

