

Report Sea

Report No. : EED32Q81556402 Page 1 of 71

TEST REPORT

Product : H2D

Trade mark : bambulab

Model/Type reference : PF003-D, PF003-M

Serial Number : N/A

Report Number : EED32Q81556402

FCC ID : 2A6J8-PF003D Date of Issue : Mar. 13, 2025

Test Standards : 47 CFR Part 15 Subpart E

Test result : PASS

Prepared for:

Shenzhen Tuozhu Technology Co., Ltd. Room 201, Building A, No. 1 First Qianwan Road, Qianhai Shengang Cooperation Zone, Shenzhen

Prepared by:

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Mar. 13, 2025

Check No.: 8913300924



Page 2 of 71

Content

1 CONTENT	•••••	•••••	•••••••••
2 VERSION	•••••	•••••	
3 TEST SUMMARY			
4 GENERAL INFORMATION			
4.1 CLIENT INFORMATION			
5 EQUIPMENT LIST			9
6 RADIO TECHNICAL REQUIREMENTS	SPECIFICATION		12
6.1 ANTENNA REQUIREMENT 6.2 AC POWER LINE CONDUCTED EMISSI 6.3 MAXIMUM CONDUCTED OUTPUT POW 6.4 6DB EMISSION BANDWIDTH 6.5 26DB EMISSION BANDWIDTH AND 99% 6.6 MAXIMUM POWER SPECTRAL DENSITY 6.7 FREQUENCY STABILITY 6.8 RADIATED EMISSION WHICH FALL IN THE	IONS		
7 APPENDIX 5G WI-FI			60
PHOTOGRAPHS OF TEST SETUP			6
PHOTOGRAPHS OF EUT CONSTRUCT	IONAL DETAILS		70





















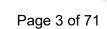












2 Version

Version No.	Date	Description	
00	Mar. 13, 2025	 Original	_0~
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Report No.: EED32Q81556402 Page 4 of 71

3 Test Summary

1.20 %		1 20 %
Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(6)	PASS
Duty Cycle	47 CFR Part 15 Subpart E Section 15.407	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
26dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
99% Occupied bandwidth	(6,)	PASS
6dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (e)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	PASS
Radiated Emissions	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS
Radiated Emissions which fall in the restricted bands	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS

Remark:

Model No.: PF003-D, PF003-M

Both models have been tested, but reflect the worst model data (PF003-D), Product H2D (product name)with its model PF003-D (model no.) is identical with the model PF003-M (model no.) on circuitry design, PCB layout, electrical components used, internal wiring of main frame parts, and only different are PF003-M contains below accessories more than PF003-D:

- 1. One laser module (Bambu Lab Laser Module 10W/ SL001, Bambu Lab Laser Module 40W/ SL002);
- 2. One cutting module (Bambu Lab Cutting Module/ SC001);
- One pump module (Builtin Air Pump/ FAC124); 3.
- 4. One emergency stop switch;
- Different enclosure materials, F003-M uses laser protection material while PF003-D uses transparent glass.















Page 5 of 71 Report No. : EED32Q81556402

General Information

4.1 Client Information

Applicant:	Shenzhen Tuozhu Technology Co., Ltd.		
Address of Applicant:	Room 201, Building A, No. 1 First Qianwan Road, Qianhai Shengang Cooperation Zone, Shenzhen		
Manufacturer:	Shenzhen Tuozhu Technology Co., Ltd.		
Address of Manufacturer:	Room 201, Building A, No. 1 First Qianwan Road, Qianhai Shengang Cooperation Zone, Shenzhen		
Factory: Shenzhen Zhuhe Technology Co.,Ltd.			
Address of Factory:	Building M, No.28 Dayang Road, Rentian Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province		

4.2 General Description of EUT

Product Name:	H2D			
Model No.(EUT):	PF003-D, PF003-M			
Test Model No.:	PF003-D, PF003-M			
Trade mark:	bambulab			
Product Type:	☐ Mobile ☐ Portable ☒ Fixed Location			
Type of Modulation:	IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)			
Operating Frequency	U-NII-1: 5150-5250MHz U-NII-2A: 5250-5350MHz U-NII-2C: 5500-5700MHz U-NII-3: 5745-5825MHz			
Sample Type:	☐ Mobile ☐ Portable ☒ Fixed Location			
Antenna Type:	Internal Antenna			
Antenna Gain:	U-NII-1: 5150-5250MHz 0.3dBi U-NII-2A: 5250-5350MHz 0.82dBi U-NII-2C:5500-5700MHz -0.5dBi U-NII-3:5745-5825MHz -1.6dBi			
Function	SISO □ 2x2 MIMO □ 3x3 MIMO □ 4x4MIMO			
Power Supply:	AC 120V, 60Hz			
Test Voltage:	AC 120V, 60Hz			
Sample Received Date:	Nov. 22, 2024			
Sample tested Date:	Nov. 22, 2024 to Dec. 30, 2024			













Page 6 of 71

Operation Frequency each of channel

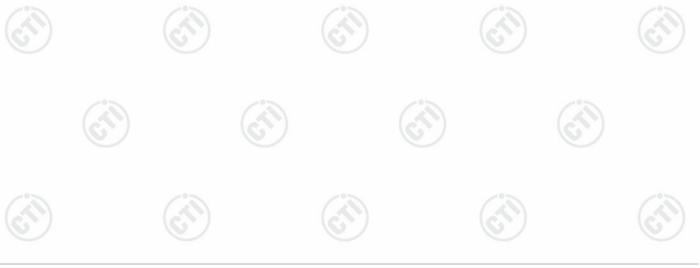
802.11a/802.11n(20MHz) Frequency/Channel Operations:

	U-NII-1	U	J-NII-2A	Į	U-NII-2C		U-NII-3
Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	52	5260	100	5500	149	5745
40	5200	56	5280	104	5520	153	5765
44	5220	60	5300	108	5540	157	5785
48	5240	64	5320	112	5560	161	5805
-	-	-	-	116	5580	165	5825
-	-	-	-	132	5660	-	
) -	- (-11)	<u> </u>	(17-)	136	5680	-	
_		-		140	5700	_	

802.11n(40MHz) Frequency/Channel Operations:

U-NII-1		/3	J-NII-2A	U-NII-2C		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
38	5190	54	5270	102	5510	151	5755
46	5230	62	5310	110	5550	159	5795
- (- (3)	-		134	5670	1	
		-		142	5710	-	

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:





Report No.: EED32Q81556402 Page 7 of 71

Test Configuration

EUT Test Software Settings:			
Software:	ADB		
EUT Power Grade:	Default	-0-	-5%

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
802.11a	6 Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0

4.3 Test Environment

Operating Environment:			
Radiated Spurious Emission	s:		
Temperature:	22~25.0 °C	57)	(0,)
Humidity:	50~55 % RH		
Atmospheric Pressure:	1010mbar		
Conducted Emissions:			
Temperature:	22~25.0 °C	(6,7.)	(6,7,)
Humidity:	50~55 % RH		
Atmospheric Pressure:	1010mbar		
RF Conducted:			
Humidity:	50~55 % RH	(1)	
Atmospheric Pressure:	1010mbar	3)	
	NT (Normal Temperature)	22~25.0 °C	
Temperature:	LT (Low Temperature)	10 °C	
	HT (High Temperature)	30 °C	
	NV (Normal Voltage)	110V	(6,)
Working Voltage of the EUT:	LV (Low Voltage)	99V	
	HV (High Voltage)	132V	





Report No. : EED32Q81556402 Page 8 of 71

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	Asus	FL8700JP1065-	FCC&CE	СТІ
		0D8GXYQ2X10		
Netbook	Lenovo	ThinkPad S2	FCC&CE	СТІ

4.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

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

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

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

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

No.	ltem	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	DE nover conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-40GHz)
		3.3dB (9kHz-30MHz)
3	Dadiated Spurious emission test	4.5dB (30MHz-1GHz)
ა	Radiated Spurious emission test	4.8dB (1GHz-18GHz)
10.5		3.4dB (18GHz-40GHz)
37	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%





Report No.: EED32Q81556402 Page 9 of 71

5 Equipment List

		RF te	st system		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Communication test set	R&S	CMW500	107929	06-26-2024	06-25-2025
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-02-2024	09-01-2025
Spectrum Analyzer	R&S	FSV40	101200	07-18-2024	07-17-2025
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	06-25-2024	06-24-2025
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-12-2023 11-30-2024	12-10-2024 11-29-2025
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-29-2024	05-28-2025
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	V2.0.0.0	(cit)	- (1
Spectrum Analyzer	R&S	FSV3044	101509	01-17-2024	01-16-2025

Conducted disturbance Test						
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date (mm-dd-yyyy)	
Receiver	R&S	ESCI	100435	04-18-2024	04-17-2025	
Temperature/ Humidity Indicator	Defu	TH128	/	04-25-2024	04-24-2025	
LISN	R&S	ENV216	100098	09-19-2024	09-18-2025	
Barometer	changchun	DYM3	1188		<u> </u>	
Test software	Fara	EZ-EMC	EMC-CON 3A1.1			
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024	06-17-2025	



Report No.: EED32Q81556402 Page 10 of 71

ION	TESEO	ICM TOOO	20207	12/14/2023 12/13	12/13/2024
ISN	TESEQ	ISN T800	30297	12/05/2024	12/04/2025

Equipment	Manufacturer	Model No.	Serial	Cal. date	Cal. Due date (mm-dd-yyyy)	
			Number	(mm-dd-yyyy)		
BM Chamber & Accessory Equipment	TDK	SAC-3		05/22/2022	05/21/2025	
Receiver	R&S	ESCI7	100938- 003	09/07/2024	09/06/2025	
Spectrum Analyzer	R&S	FSV40	101200	07/18/2024	07/17/2025	
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025	
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/16/2024	04/15/2025	
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/14/2023 12/05/2024	12/13/2024 12/04/2025	
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026	
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D- 1869	04/16/2024	04/15/2025	
Preamplifier	Agilent	11909A	12-1	03/22/2024	03/21/2025	
Preamplifier	CD	PAP-1840-60	6041.6042	06/19/2024	06/18/2025	
Test software	Fara	EZ-EMC	EMEC- 3A1-Pre	(<u> </u>	
Cable line	Fulai(7M)	SF106	5219/6A			
Cable line	Fulai(6M)	SF106	5220/6A		(8	
Cable line	Fulai(3M)	SF106	5216/6A			
Cable line	Fulai(3M)	SF106	5217/6A			











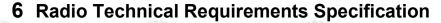


Report No. : EED32Q81556402 Page 11 of 71

		3M full-anechoic	Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Fully Anechoic Chamber	TDK	FAC-3	(01-09-2024	01-08-2027
Receiver	Keysight	N9038A	MY57290136	01-09-2024 01-04-2025	01-08-2025 01-03-2026
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-29-2024 01-14-2025	01-28-2025 01-13-2026
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-23-2024 01-14-2025	01-22-2025 01-13-2026
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2024	04-27-2025
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-16-2024	04-15-2025
Horn Antenna	ETS-LINDGREN	3117	57407	07-03-2024	07-02-2025
Preamplifier	EMCI	EMC001330	980563	03-08-2024	03-07-2025
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
Preamplifier	Tonscend	EMC051845SE	980380	12-14-2023 12-05-2024	12-13-2024 12-04-2025
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-07-2024	04-06-2025
RSE Automatic test software	JS Tonscend	JS36-RSE	V4.0.0.0	- 6	<u> </u>
Cable line	Times	SFT205-NMSM-2.50M	394812-0001		
Cable line	Times	SFT205-NMSM-2.50M	394812-0002		/->
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	(f))	-(67
Cable line	Times	SFT205-NMSM-2.50M	393495-0001		
Cable line	Times	EMC104-NMNM-1000	SN160710	/-	
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	(6))
Cable line	Times	SFT205-NMNM-1.50M	381964-0001		
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		-/:3
Cable line	Times	HF160-KMKM-3.00M	393493-0001	(i)	(6)







6.1 Antenna Requirement

47 CFR Part 15C Section 15.203 Standard 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.

Please see Internal photos **EUT Antenna:**

The antenna is internal antenna. The best case gain of the antenna are:

U-NII-1: 5150-5250MHz 0.3dBi U-NII-2A: 5250-5350MHz 0.82dBi U-NII-2C:5500-5700MHz -0.5dBi







Report No. : EED32Q81556402 Page 13 of 71

6.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, S	weep time=auto					
Limit:	Limit (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						
	AC Mains	AE LISN2 → AC M	Test Receiver				
		Ground Reference Plane					
Test Procedure:	impedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the r 3) The tabletop EUT was pla ground reference plane. A placed on the horizontal g 4) The test was performed withe EUT shall be 0.4 m vertical ground reference reference plane. The LISI unit under test and bor mounted on top of the gro	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 ating of the LISN was aced upon a non-metal and for floor-standing a round reference plane th a vertical ground reference plane of the vertical ground in the vertical ground	e 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 trangement, the EUT was a 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 im the LISN 2.				









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Test Mode:	All modes were tested, only the worst case was recorded in the report.
Test Results:	Pass



























































































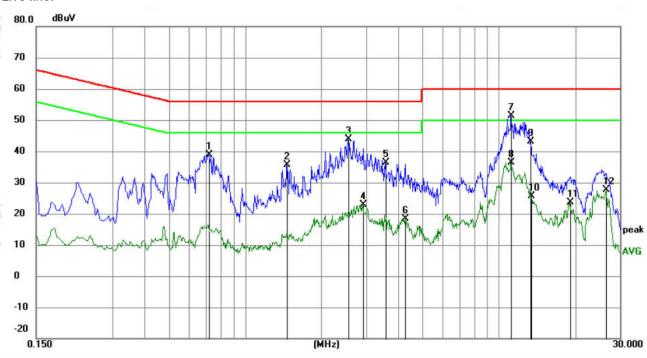




Report No. : EED32Q81556402 Page 15 of 71

Measurement Data

Live line:



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	0.7170	28.62	10.14	38.76	56.00	-17.24	QP		
2	1.4595	25.57	10.18	35.75	56.00	-20.25	QP		
3	2.5530	33.65	10.15	43.80	56.00	-12.20	QP		
4	2.9040	12.72	10.14	22.86	46.00	-23.14	AVG		
5	3.5835	26.35	10.11	36.46	56.00	-19.54	QP		
6	4.2720	8.39	10.09	18.48	46.00	-27.52	AVG		
7 *	11.1840	41.52	9.93	51.45	60.00	-8.55	QP		
8	11.1840	26.45	9.93	36.38	50.00	-13.62	AVG		
9	13.2720	33.34	9.89	43.23	60.00	-16.77	QP		
10	13.3665	15.75	9.89	25.64	50.00	-24.36	AVG		
11	19.0634	13.78	9.81	23.59	50.00	-26.41	AVG		
12	26.4570	17.84	9.81	27.65	50.00	-22.35	AVG		

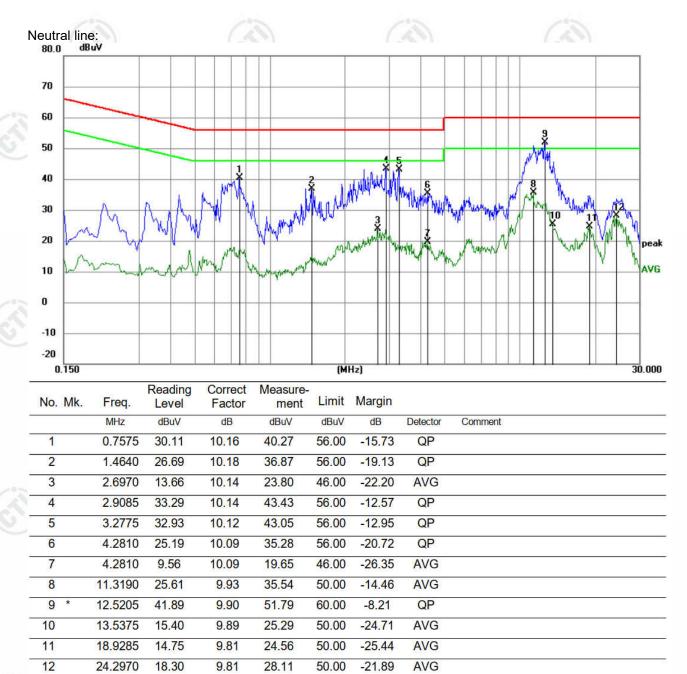
Remark:

- 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.









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.













Report No. : EED32Q81556402 Page 17 of 71

6.3 Maximum Conducted Output Power

	100				
Test Requirement:	47 CFR Part 15C S	Section 15.407 (a			
Test Method:	KDB789033 D02 0	General UNII Tes	t Procedures New Rule	s v02r01 Section	
Test Setup:	6				
	Control Computer Power Supply Temperature Cab	Attenuator	RF test System Instrument		
Test Procedure:	(6)		nent Procedure of KDB7		
	General UNII Test 2. The RF output o attenuator. The parmeasurement. 3. Set to the maxin continuously.	Procedures New f EUT was conne th loss was comp num power setting	Rules v02r01 Section E ected to the power meter ensated to the results for g and enable the EUT tr	, 3, a by RF cable and or each ansmit	
Limit:					
	Frequency band (MHz)	Limit			
	5450 5050	≤1W(30dBm) for master device			
	5150-5250	≤250mW(24dBm) for client device			
	5250-5350	≤250mW(24dB	m) for client device or 11	IdBm+10logB*	
	5470-5725	≤250mW(24dB	m) for client device or 1	IdBm+10logB*	
	5725-5850	≤1W(30dBm)			
	Remark: * Where B is the 26dB emission bandwidth in MHz The maximum conducted output power must be measured over any interval of continuous transmiss using instrumentation calibrated in terms of an rms- equivalent voltage.				
Test Mode:	Transmitting mode with modulation				
Test Results:	Refer to Appendix 5G Wi-Fi				







6.4 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.407 (e)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Test Setup:	Control Congular System
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Limit:	≥ 500 kHz
Test Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix 5G Wi-Fi

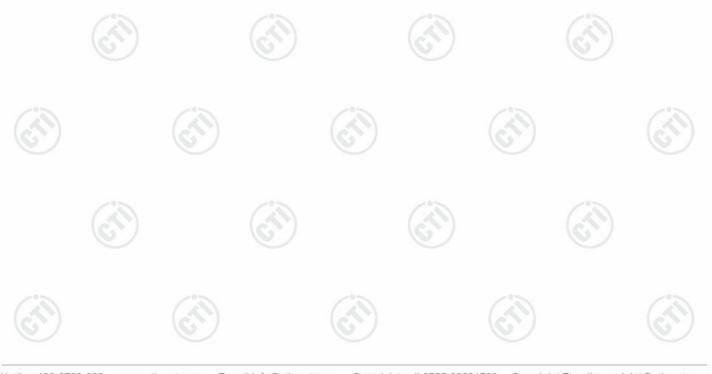






6.5 26dB Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.407 (a)					
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D					
Test Setup:						
	Control Control Control Control Control Power Supply Attenuator Temperature Cabriet Table RF test System Instrument					
	Remark: Offset=Cable loss+ attenuation factor.					
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. 4. Measure and record the results in the test report.					
Limit:	No restriction limits					
Test Mode:	Transmitting mode with modulation					
Test Results:	Refer to Appendix 5G Wi-Fi					







6.6 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C S	Section 15.407 (a)					
Test Method:	KDB789033 D02 G	eneral UNII Test	Procedures New	Rules v02r01 Section F				
Test Setup:	-	•	CHI CHI					
	Control Computer Power Supply TEMPERATURE CAB	Attenuator	RF test System Instrument					
	Remark: Offset=Cable loss+ attenuation factor.							
Test Procedure:	 Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. Allow the sweeps to continue until the trace stabilizes. Use the peak marker function to determine the maximum amplitude level. 							
Limit:	(25)	(6))	(25)				
	Frequency band (MHz)	Limit						
	5150-5250	≤17dBm in 1Ml	Hz for master devi	ice				
	5150-5250	≤11dBm in 1Ml	Hz for client device	e				
	5250-5350	≤11dBm in 1Ml	Hz for client device	e (C)				
	5470-5725	≤11dBm in 1Ml	Hz for client device	е				
	5725-5850 ≤30dBm in 500kHz							
	Remark:	nsity is measured as connection of a equipment under test.						
Test Mode:	Transmitting mode	with modulation						
Test Results:	Refer to Appendix	Refer to Appendix 5G Wi-Fi						
· ·								

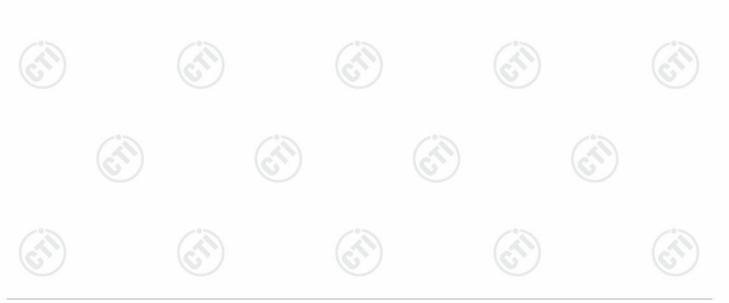






6.7 Frequency Stability

Test Requirement:	47 CFR Part 15C Section 15.407 (g)						
Test Method:	ANSI C63.10: 2013						
Test Setup:							
	Control Computer Power Supply Attenuator Instrument Table RF test System Rystem Instrument Table						
	Demands Office Cold bear attenue for forter						
	Remark: Offset=Cable loss+ attenuation factor. 1.The EUT was placed inside the environmental test chamber and powered						
Test Procedure:	by nominal AC/DC voltage. 2. Turn the EUT on and couple its output to a spectrum analyzer. 3. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. 4. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. 5. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.						
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.						
Test Mode:	Transmitting mode with modulation						
Test Results:	Refer to Appendix 5G Wi-Fi						





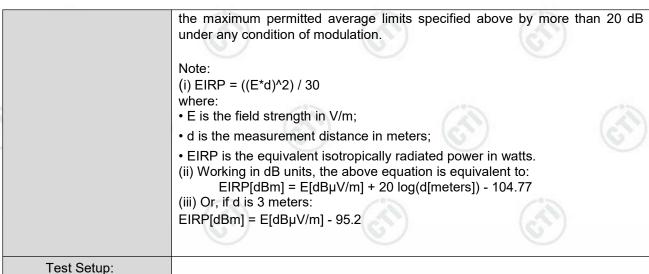
Report No. : EED32Q81556402 Page 22 of 71

6.8 Radiated Emission

Test Requirement:	47 CFR Part 15C Sect	ion 1	5.209 and 1	5.407 (b)		160	/					
Test Method:	ANSI C63.10 2013	` '										
Test Site:	Measurement Distance	e: 3m	n (Semi-Ane	choic Cha	mbe	r)						
Receiver Setup:	Frequency	2)	Detector	RBV	N	VBW	Remark					
	0.009MHz-0.090MH	Peak	10kH	Ηz	30kHz	Peak						
	0.009MHz-0.090MH	Ηz	Average	10kH	Ηz	30kHz	Average					
	0.090MHz-0.110MH	Ηz	Quasi-pea	ık 10kl	Ηz	30kHz	Quasi-peak					
	0.110MHz-0.490MH	Ηz	Peak	10kl	Ηz	30kHz	Peak					
	0.110MHz-0.490MH	Ηz	Average	10kH	Ηz	30kHz	Average					
	0.490MHz -30MHz	Z	Quasi-pea	ık 10kH	Ηz	30kHz	Quasi-peak					
	30MHz-1GHz		Quasi-pea	ık 100 k	Hz	300kHz	Quasi-peak					
	Above 1GHz		Peak	1MF	łz	3MHz	Peak					
	Above 19112		Peak	1MH	lz	10kHz	Average					
Limit:	Frequency	l	ld strength rovolt/meter)	Limit (dBuV/m)	F	Remark	Measurement distance (m)					
	0.009MHz-0.490MHz	24	00/F(kHz)	-		- (4	300					
	0.490MHz-1.705MHz	240	000/F(kHz)	-	- @		30					
	1.705MHz-30MHz		30	-	-		30					
	30MHz-88MHz	100		40.0	Qu	asi-peak	3					
	88MHz-216MHz	10	150	150 43.5		asi-peak	3					
	216MHz-960MHz		200	46.0	Quasi-peak		3					
	960MHz-1GHz		500	54.0	Quasi-peak		3					
	Above 1GHz		500	54.0	Α	verage	3					
	*(1) For transmitters outside of the 5.15-5 dBm/MHz. (2) For transmitters op of the 5.15-5.35 GHz because of the 5.47-5 dBm/MHz. (4) For transmitters op (i) All emissions shall be above or below the because of the be	5.35 eratii band ppera 5.725 eratii coe lin eratio eratii don li bying 0kHz ee thi	GHz band ng in the 5.2 shall not excepting in the 5.7 nited to a level of 18 5 MHz about a level of 18 5 MHz about a CISPR z, 110-490k ree bands a	shall not 5-5.35 GH ceed an e. 5.47-5.72 I shall no 25-5.85 G rel of -27 sing linearl rom 25 Ml com 25 Ml com 25 ml com edge in the quasi-pearl rom and a re based	t ex	and: All em of -27 dB GHz band: acceed an oand: n/MHz at 7 10 dBm/N above or b at 5 MHz and e ve table detector e re 1000 M measureme	e.i.r.p. of -27 issions outside m/MHz. All emissions e.i.r.p. of -27 5 MHz or more MHz at 25 MHz below the band above or below dge increasing are based on except for the MHz. Radiated ents employing					







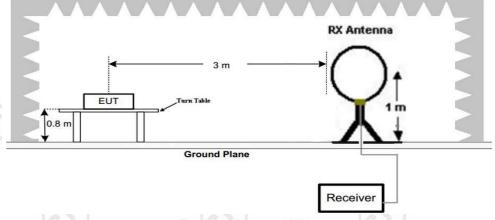
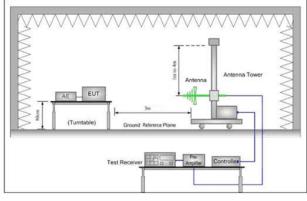


Figure 1. Below 30MHz



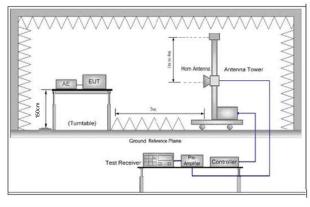


Figure 2. 30MHz to 1GHz

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.

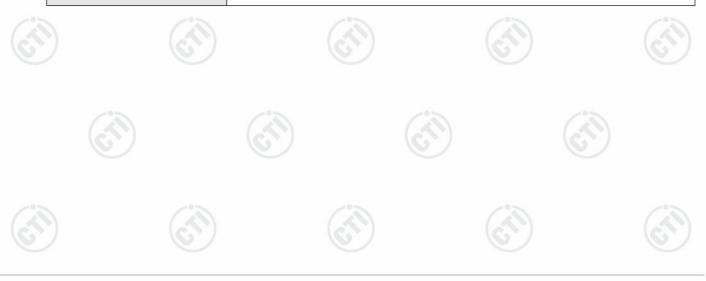
> 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

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 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 table 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.
	g. Test the EUT in the lowest channel, the middle channel and the highest channel
	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.
	i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting mode with modulation
Test Results:	Pass



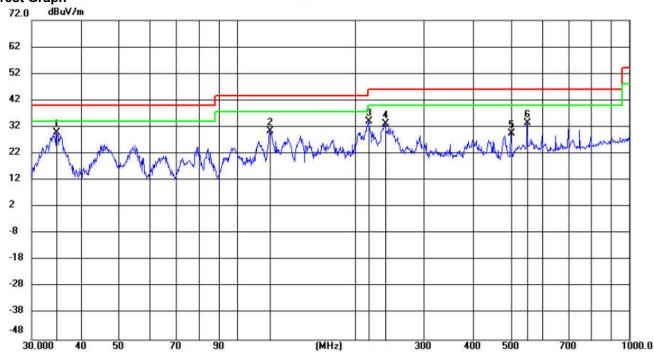




Radiated Spurious Emissions test Data: Radiated Emission below 1GHz

Remark: During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case middle channel of 6Mbps for 802.11a was recorded in the report.

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	34.7601	16.83	12.90	29.73	40.00	-10.27	QP	199	149	
2		121.3994	18.95	11.41	30.36	43.50	-13.14	QP	199	330	
3		217.0490	21.18	13.02	34.20	46.00	-11.80	QP	100	144	
4		238.6028	19.42	13.84	33.26	46.00	-12.74	QP	100	113	
5		500.0380	9.62	19.84	29.46	46.00	-16.54	QP	100	219	
6		549.9828	12.37	21.05	33.42	46.00	-12.58	QP	100	198	



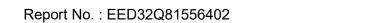








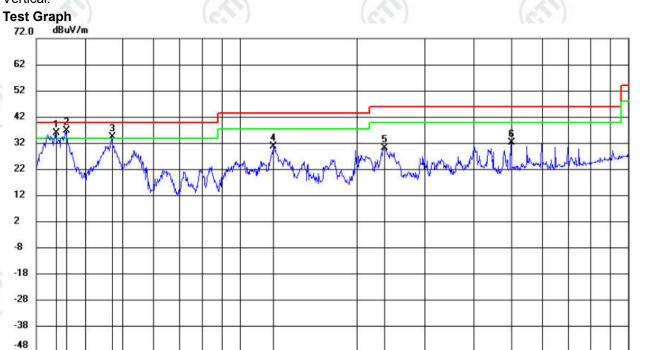




Page 26 of 71

Vertical:

30.000



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
-			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
	1	1	33.7276	23.30	12.75	36.05	40.00	-3.95	QP	200	209	
	2	*	35.8118	23.92	13.04	36.96	40.00	-3.04	QP	100	255	
7	3	4	46.9042	21.15	13.57	34.72	40.00	-5.28	QP	100	201	
-	4		122.1467	19.79	11.28	31.07	43.50	-12.43	QP	100	126	-
	5		236.4788	16.73	13.76	30.49	46.00	-15.51	QP	200	92	-
-	6		500.0380	12.71	19.84	32.55	46.00	-13.45	QP	200	124	

(MHz)









500

400

300

700

1000.0























Report No.: EED32Q81556402 Page 27 of 71

Transmitter Emission above 1GHz

Remark: During the test, the Radiates Emission from 1GHz to 40GHz was performed in all modes,, for 20MHz Occupied Bandwidth, 802.11 a mode was the worst case;

for 40MHz Occupied Bandwidth, 802.11 n(HT40) mode was the worst case;

only the worst case was recorded in the report.

Mode	:	8	02.11 a Tran	smitting		Channe	el:	5180MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1949.338	17.12	35.78	52.90	68.20	15.30	PASS	Horizontal	PK
2	2559.6424	16.15	37.00	53.15	68.20	15.05	PASS	Horizontal	PK
3	3126.165	17.26	35.86	53.12	68.20	15.08	PASS	Horizontal	PK
4	6907.1204	-4.64	53.40	48.76	68.20	19.44	PASS	Horizontal	PK
5	10361.8931	1.94	51.34	53.28	68.20	14.92	PASS	Horizontal	PK
6	14246.7873	12.09	40.45	52.54	68.20	15.66	PASS	Horizontal	PK
7	1951.3181	17.05	35.11	52.16	68.20	16.04	PASS	Vertical	PK
8	2703.9682	16.18	36.88	53.06	68.20	15.14	PASS	Vertical	PK
9	3811.2725	19.17	34.35	53.52	68.20	14.68	PASS	Vertical	PK
10	6906.5453	-4.62	53.99	49.37	68.20	18.83	PASS	Vertical	PK
11	10357.8679	2.17	50.98	53.15	68.20	15.05	PASS	Vertical	PK
12	17001.1751	10.67	41.48	52.15	68.20	16.05	PASS	Vertical	PK

Mode	:	80	2.11 n(HT4	0) Transmitti	ng	Channe	el:	5230MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1308.2323	9.76	37.43	47.19	68.20	21.01	PASS	Horizontal	PK
2	1876.9551	15.76	35.20	50.96	68.20	17.24	PASS	Horizontal	PK
3	2645.6658	15.71	35.68	51.39	68.20	16.81	PASS	Horizontal	PK
4	6973.2487	-5.50	54.51	49.01	68.20	19.19	PASS	Horizontal	PK
5	9157.2079	0.06	47.12	47.18	68.20	21.02	PASS	Horizontal	PK
6	12399.795	6.60	44.01	50.61	68.20	17.59	PASS	Horizontal	PK
7	1317.0327	9.85	36.70	46.55	68.20	21.65	PASS	Vertical	PK
8	1835.3734	15.28	35.75	51.03	68.20	17.17	PASS	Vertical	PK
9	2590.8836	15.86	35.71	51.57	68.20	16.63	PASS	Vertical	PK
10	6973.2487	-5.50	55.15	49.65	68.20	18.55	PASS	Vertical	PK
11	9038.7519	-0.25	46.46	46.21	68.20	21.99	PASS	Vertical	PK
12	11787.9644	3.29	45.39	48.68	68.20	19.52	PASS	Vertical	PK



















Page 28 of 71









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 18GHz 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.

















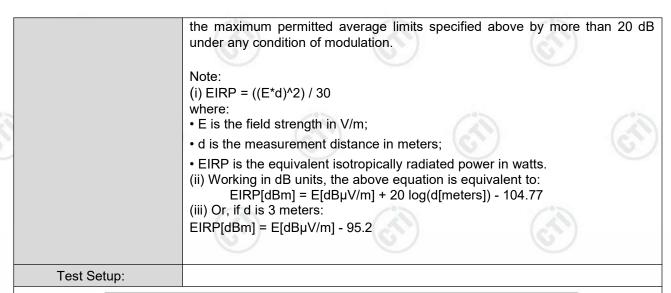
Report No. : EED32Q81556402 Page 29 of 71

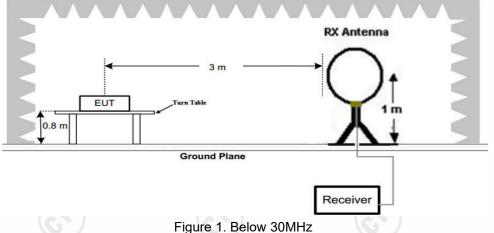
6.9 Radiated Emission which fall in the restricted bands

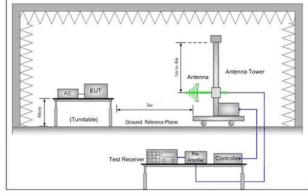
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.407 (b)									
Test Method:	ANSI C63.10 2013									
Test Site:	Measurement Distance	e: 3n	n (Semi-Ane	choic Char	nbe	r)				
Receiver Setup:	Frequency	2)	Detector	RBV	٧	VBW	Remark			
	0.009MHz-0.090MH	Peak	10kH	Hz 30kHz		Peak				
	0.009MHz-0.090MH	Average	10kH	Ιz	30kHz	Average				
	0.090MHz-0.110MH	Quasi-pea	ak 10kH	Ηz	30kHz	Quasi-peak				
	0.110MHz-0.490MH	Ηz	Peak	10kF	Ηz	30kHz	Peak			
	0.110MHz-0.490MH	Ηz	Average	10kF	łz	30kHz	Average			
	0.490MHz -30MHz	Z	Quasi-pea	ak 10kH	Ηz	30kHz	Quasi-peak			
	30MHz-1GHz		Quasi-pea	ak 100 k	Hz	300kHz	Quasi-peak			
	Above 4015	Peak	1MH	lz	3MHz	Peak				
	Above 1GHz	Above Toriz		1MH	lz	10kHz	Average			
Limit:	L Lroduonov		ld strength	Limit (dBuV/m)	R	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz	<u>`</u>	100/F(kHz)	_	- (3)		300			
	0.490MHz-1.705MHz	24000/F(kHz		_	- (6.)		30			
	1.705MHz-30MHz		30	-		-	30			
	30MHz-88MHz		100	40.0	Qu	asi-peak	3			
	88MHz-216MHz	10	150	43.5	Quasi-peak		3			
	216MHz-960MHz	7	200	46.0	Quasi-peak		3			
	960MHz-1GHz		500	54.0	Qu	asi-peak	3			
	Above 1GHz		500	54.0	Α	verage	3			
	*(1) For transmitters outside of the 5.15-3 dBm/MHz. (2) For transmitters op of the 5.15-5.35 GHz to (3) For transmitters outside of the 5.47-5 dBm/MHz. (4) For transmitters op (i) All emissions shall be above or below the beabove or below	erational perational p	GHz band ng in the 5.2 shall not excepting in the 5.7 mited to a level of 18 5 MHz about MHz at the simits shown	shall not 25-5.35 GH ceed an e.i. 5.47-5.72 d shall no 25-5.85 Givel of -27 cing linearly from 25 Mi 5.6 dBm/M ve or beloe band edgen in the	z ba z ba i.r.p. 5 G t ex Hz b dBm y to Hz a Hz a w th e.	and: All em of -27 dB Hz band: aceed an oand: n/MHz at 7 10 dBm/N above or b at 5 MHz a ne band e	e.i.r.p. of -27 issions outside m/MHz. All emissions e.i.r.p. of -27 5 MHz or more MHz at 25 MHz below the band above or below dge increasing are based on			
	measurements emplo frequency bands 9-9 emission limits in thes an average detector, t	0kHz se th	z, 110-490k ree bands a	Hz and a	abov on n	e 1000 N neasureme	MHz. Radiated ents employing			











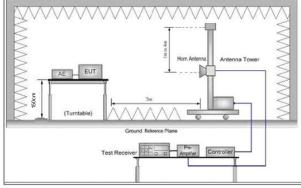


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

j. 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

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:

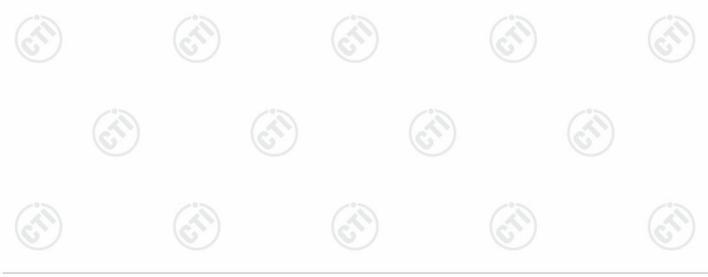






Page 31 of 71 Report No.: EED32Q81556402

Test Results:	Pass
Test Mode:	Transmitting mode with modulation
	r. Repeat above procedures until all frequencies measured was complete.
	q. 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.
	p. Test the EUT in the lowest channel, the Highest channel
	o. 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.
	n. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	m. 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.
	I. 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.
	k. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	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.

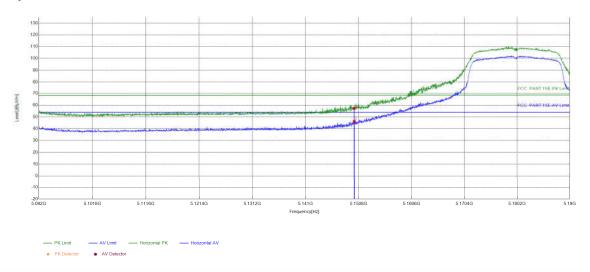




Report No.: EED32Q81556402 Page 32 of 71

Test Data:

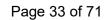
EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5180MHz
Tset_Engineer	chenjun	Test_Date	2024/12/08
Remark	21.8°C59.9%\	(4)	(41)



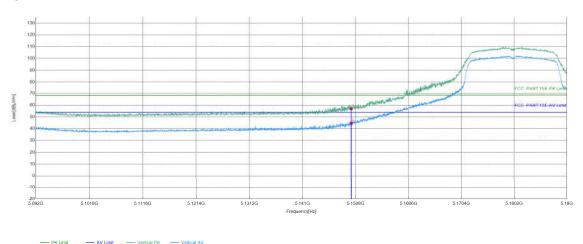
Suspecte	Suspected List												
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark				
1	5150	21.98	35.33	57.31	68.38	11.07	PASS	Horizontal	PK				
2	5150	21.98	24.05	46.03	54.00	7.97	PASS	Horizontal	AV				



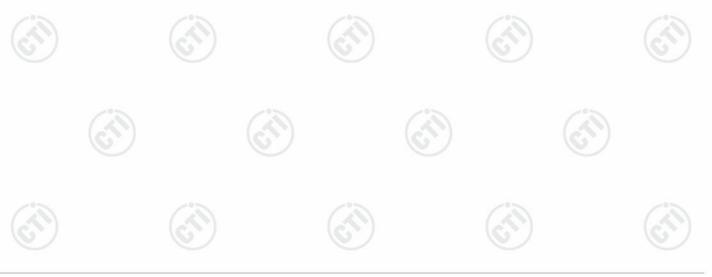




		103	100
EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5180MHz
Tset_Engineer	chenjun	Test_Date	2024/12/08
Remark	21.8°C59.9%\	(3)	(1)



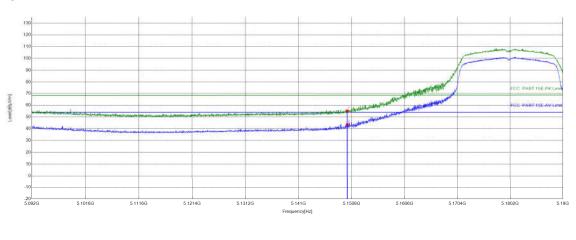
Suspect	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	5150	21.98	34.95	56.93	68.38	11.45	PASS	Vertical	PK	
2	5150	21.98	22.69	44.67	54.00	9.33	PASS	Vertical	AV	





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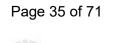
		100	
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5180MHz
Tset_Engineer	chenjun	Test_Date	2024/12/08
Remark	21.8°C59.9%\	(3)	(4)



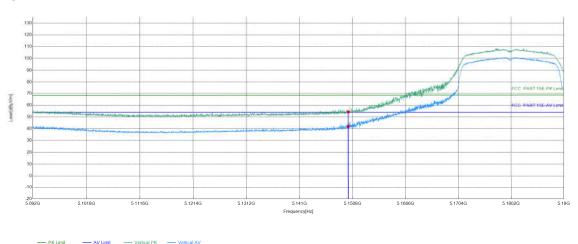
Suspecto	ed List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	21.98	32.79	54.77	68.38	13.61	PASS	Horizontal	PK
2	5150	21.98	21.42	43.40	54.00	10.60	PASS	Horizontal	AV



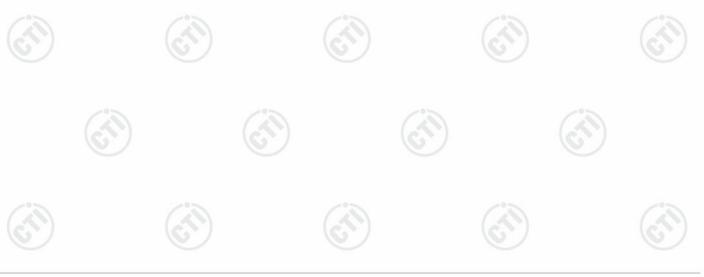




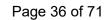
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5180MHz
Tset_Engineer	chenjun	Test_Date	2024/12/08
Remark	21.8°C59.9%\		(ii)



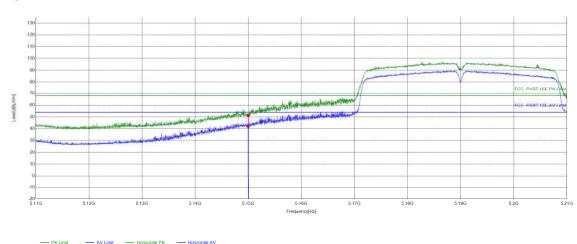
Suspe	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	5150	21.98	32.30	54.28	68.38	14.10	PASS	Vertical	PK	
2	5150	21.98	19.97	41.95	54.00	12.05	PASS	Vertical	AV	



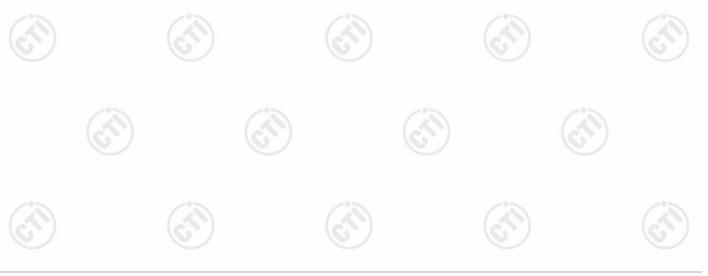




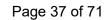
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5190MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\		



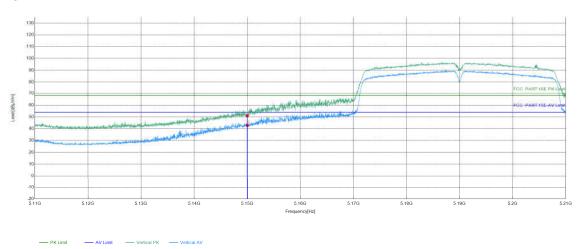
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	21.73	29.50	51.23	68.20	16.97	PASS	Horizontal	PK
2	5150	21.73	20.34	42.07	54.00	11.93	PASS	Horizontal	AV







V			
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5190MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\	(1)	



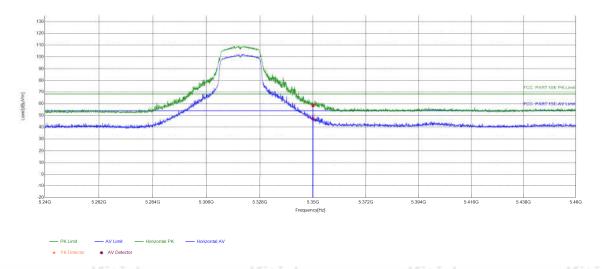
Suspecte	ed List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	21.73	29.20	50.93	68.20	17.27	PASS	Vertical	PK
2	5150	21.73	21.08	42.81	54.00	11.19	PASS	Vertical	AV



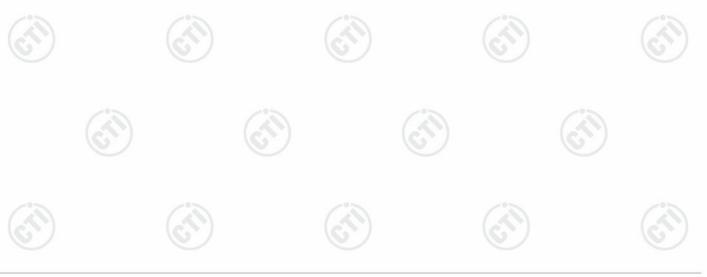


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			(A N)	(200)
EUT_Name			Test_Model	
Test_Mode	Test_Mode 802.11 a Transmitting		Test_Frequency	5320MHz
Tset_Engineer	Tset_Engineer chenjun		Test_Date	2024/12/08
Remark	21.8°C59.9%\		<*S	200



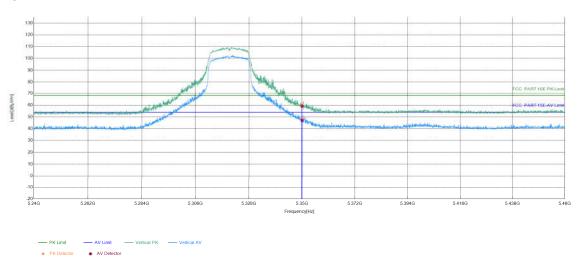
Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5350	22.37	35.98	58.35	68.20	9.85	PASS	Horizontal	PK
2	5350	22.37	24.84	47.21	54.00	6.79	PASS	Horizontal	AV





		100		
EUT_Name		Test_Model		
Test_Mode 802.11 a Transmitting		Test_Frequency	5320MHz	
Tset_Engineer	chenjun	Test_Date	2024/12/08	
Remark	21.8°C59.9%\		(3)	

Test Graph

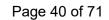


Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5350	22.37	36.76	59.13	68.20	9.07	PASS	Vertical	PK
2	5350	22.37	24.80	47.17	54.00	6.83	PASS	Vertical	AV

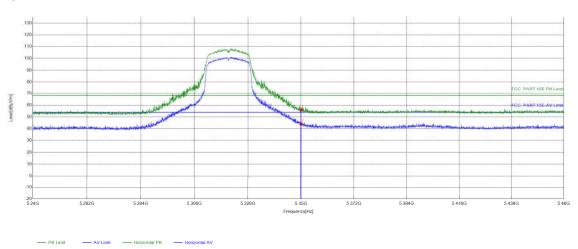


Page 39 of 71

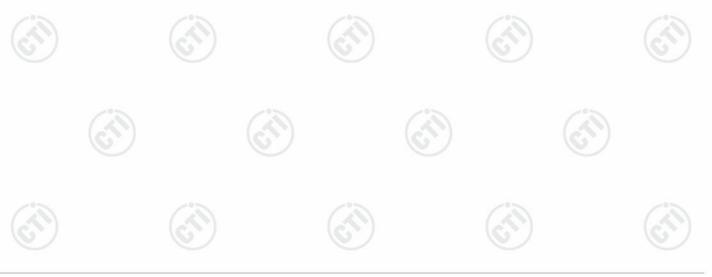




		100	
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5320MHz
Tset_Engineer	chenjun	Test_Date	2024/12/08
Remark	21.8°C59.9%\		



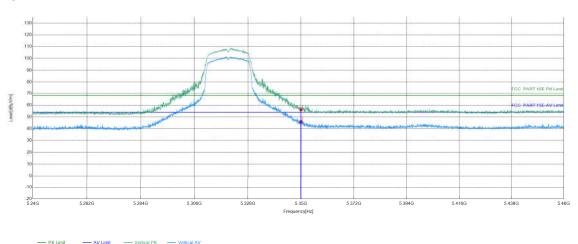
Suspecte	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	5350	22.37	33.43	55.80	68.20	12.40	PASS	Horizontal	PK	
2	5350	22.37	21.72	44.09	54.00	9.91	PASS	Horizontal	AV	



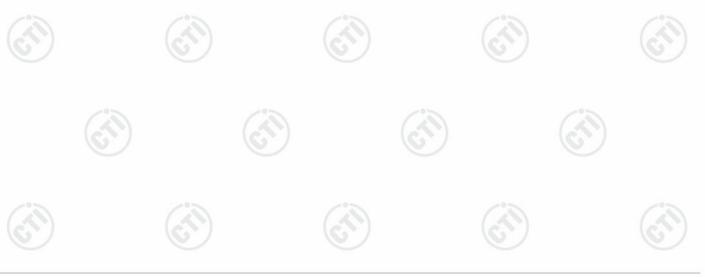


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EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5320MHz
Tset_Engineer	chenjun	Test_Date	2024/12/08
Remark	21.8°C59.9%\	(3)	(ii)



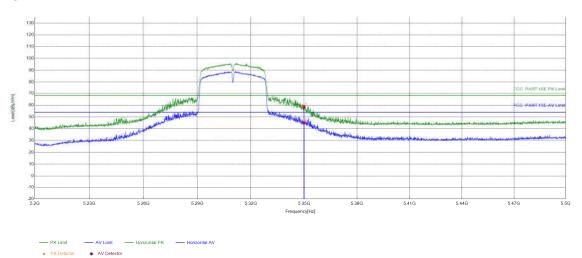
Suspecte	ed List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5350	22.37	33.68	56.05	68.20	12.15	PASS	Vertical	PK
2	5350	22.37	23.56	45.93	54.00	8.07	PASS	Vertical	AV





Page 42 of 71 Report No.: EED32Q81556402

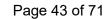
		100	
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5310MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\	(3)	(1)



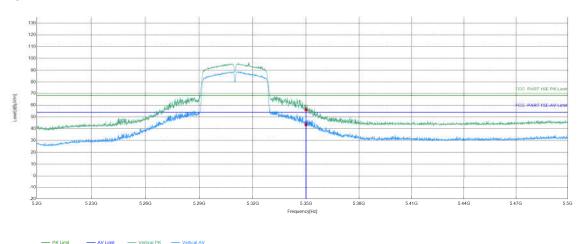
Suspecte	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	5350	22.37	36.11	58.48	68.20	9.72	PASS	Horizontal	PK	
2	5350	22.37	22.47	44.84	54.00	9.16	PASS	Horizontal	AV	







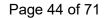
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5310MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\		(1)

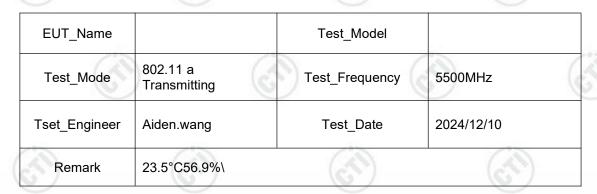


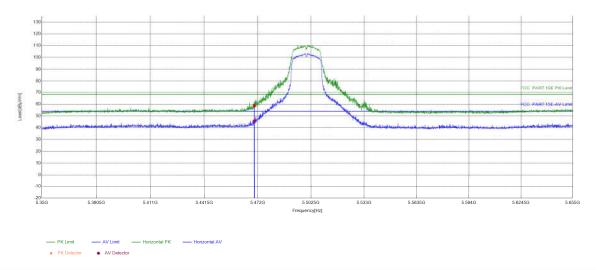
Suspecte	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	5350	22.37	33.69	56.06	68.20	12.14	PASS	Vertical	PK	
2	5350	22.37	20.98	43.35	54.00	10.65	PASS	Vertical	AV	











Susp	Suspected List									
NC	0	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1		5470	22.43	36.24	58.67	68.20	9.53	PASS	Horizontal	PK
2		5470	22.43	23.26	45.69	54.00	8.31	PASS	Horizontal	AV



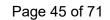




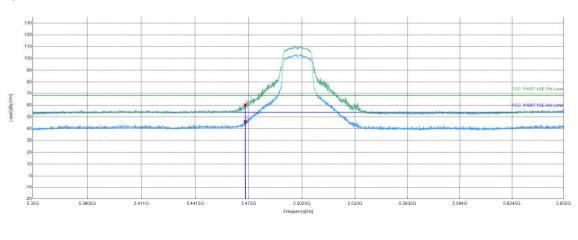








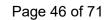
EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5500MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\		(40)



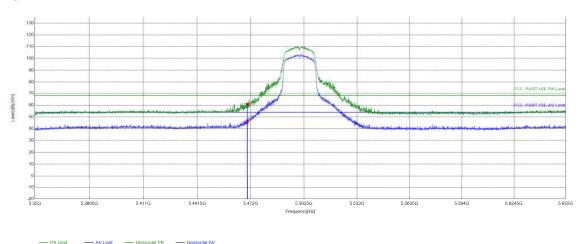
Suspect	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	5470	22.43	37.81	60.24	68.20	7.96	PASS	Vertical	PK	
2	5470	22.43	23.74	46.17	54.00	7.83	PASS	Vertical	AV	



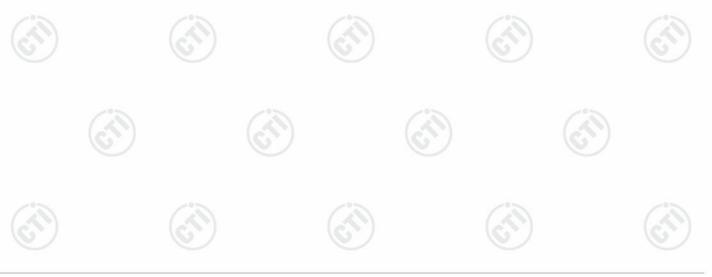




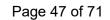
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5500MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\	(4)	(ii)
		127 7	120 0



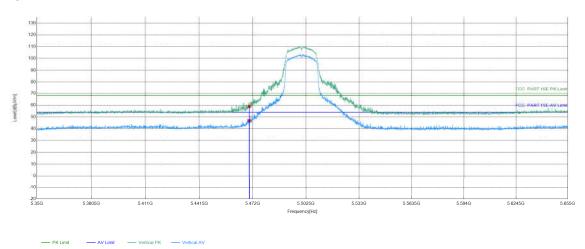
Suspecte	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	5470	22.43	38.39	60.82	68.20	7.38	PASS	Horizontal	PK	
2	5470	22.43	23.53	45.96	54.00	8.04	PASS	Horizontal	AV	



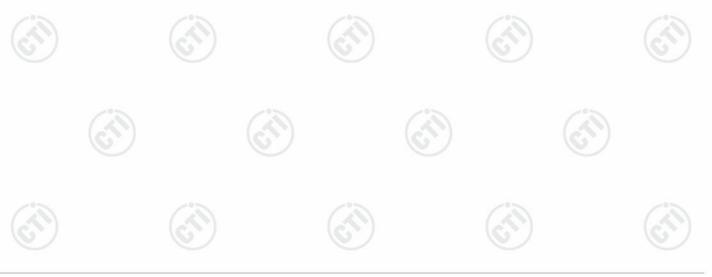




EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5500MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\		(40)



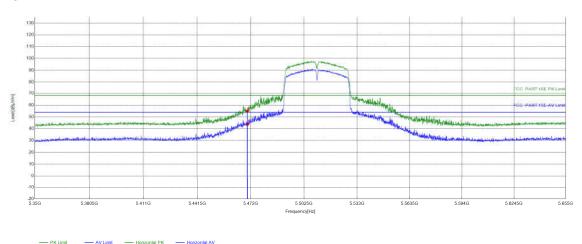
Suspecte	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5470	22.43	36.38	58.81	68.20	9.39	PASS	Vertical	PK
2	5470	22.43	24.43	46.86	54.00	7.14	PASS	Vertical	AV





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Page	48	O†	/1

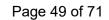
			(0)
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5510MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/1
Remark	23.5°C56.9%\	(i)	(4)



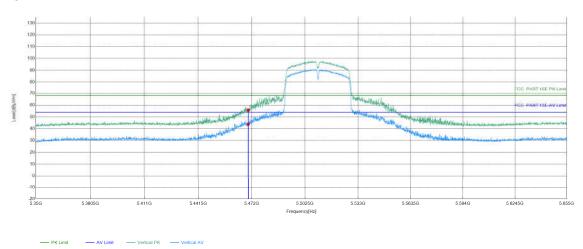
Suspecte	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5470	22.43	32.59	55.02	68.20	13.18	PASS	Horizontal	PK
2	5470	22.43	21.37	43.80	54.00	10.20	PASS	Horizontal	AV



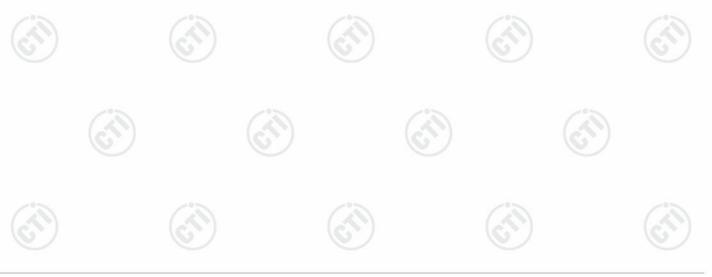




EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5510MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/1
Remark	23.5°C56.9%\		



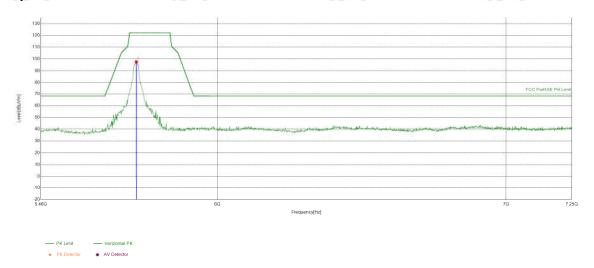
Suspecte	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5470	22.43	33.52	55.95	68.20	12.25	PASS	Vertical	PK
2	5470	22.43	21.48	43.91	54.00	10.09	PASS	Vertical	AV



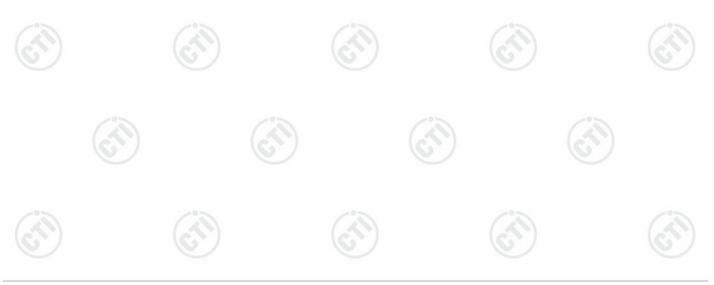


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EUT_Name			Test_Model	(0)
Test_Mode	802.11 a Transmitting		Test_Frequency	5745MHz
Tset_Engineer	Aiden.wang	6	Test_Date	2024/12/10
Remark	23.5°C56.9%\	·	(25)	200



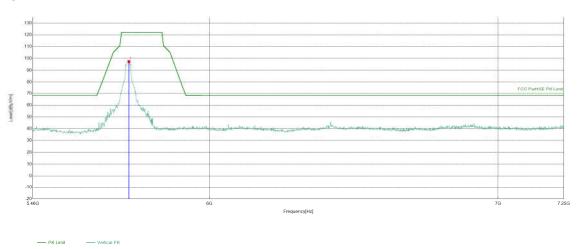
Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5745.6478	-7.66	105.31	97.65	122.20	24.55	PASS	Horizontal	PK



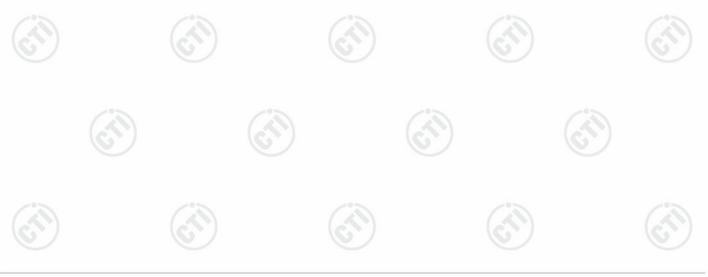




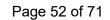
	100	1/2/	
EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5745MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\	(3)	



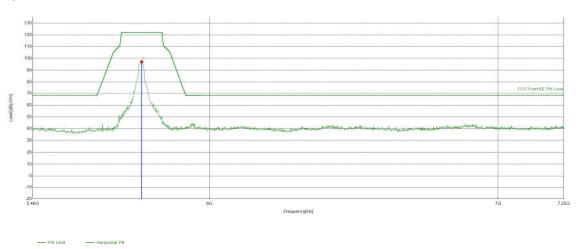
Suspe	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5747.4387	-7.58	104.97	97.39	122.20	24.81	PASS	Vertical	PK



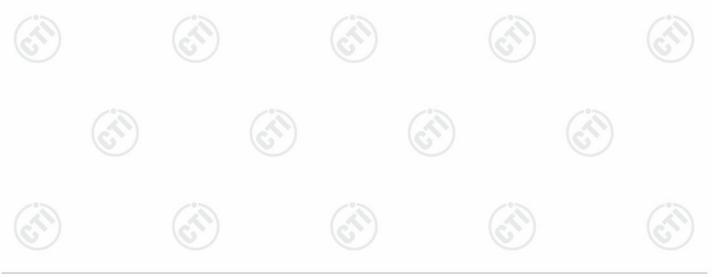




		100	(6)
EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5785MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\	(4)	(2)



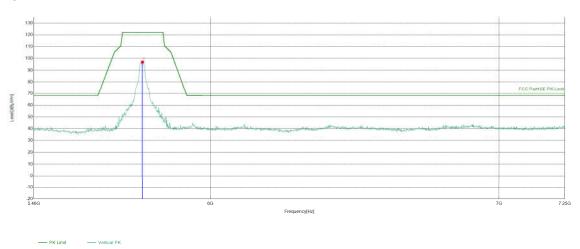
Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5786.8384	-7.70	105.02	97.32	122.20	24.88	PASS	Horizontal	PK



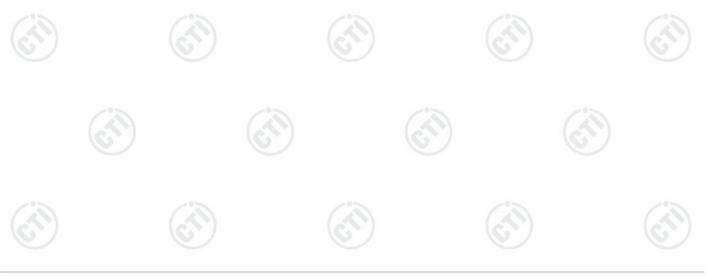


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Page	53	ot	71

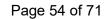
		100	
EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5785MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\		



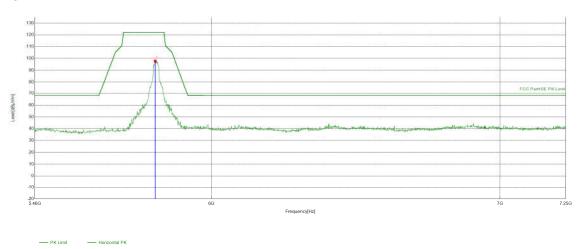
Suspec	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5785.943	-7.69	104.70	97.01	122.20	25.19	PASS	Vertical	PK



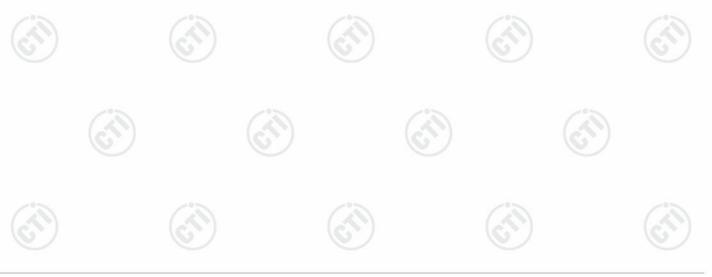




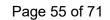
		100	100
EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5825MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\		(2)



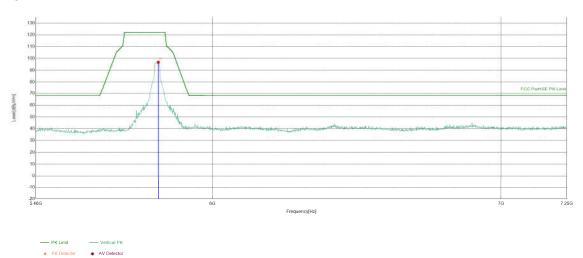
Suspe	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5822.6563	-7.64	105.47	97.83	122.20	24.37	PASS	Horizontal	PK



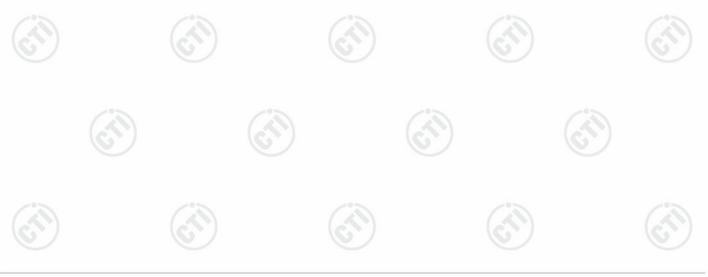




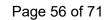
EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5825MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\	(3)	(1)



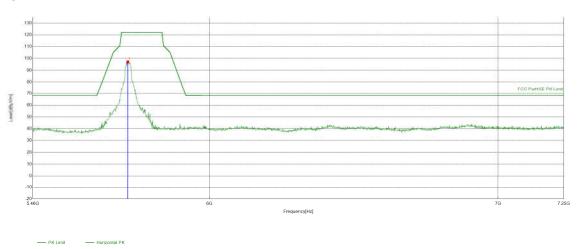
Suspe	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5828.9245	-7.60	104.41	96.81	122.20	25.39	PASS	Vertical	PK







			100
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5745MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\	(3)	(3)



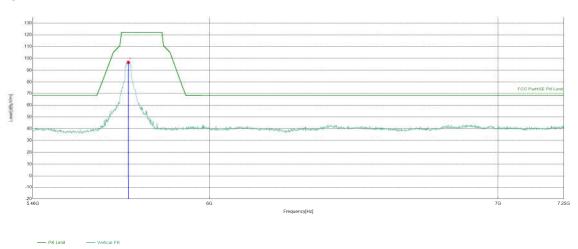
Suspe	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5743.8569	-7.72	104.88	97.16	122.20	25.04	PASS	Horizontal	PK







			100
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5745MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\	(3)	(1)



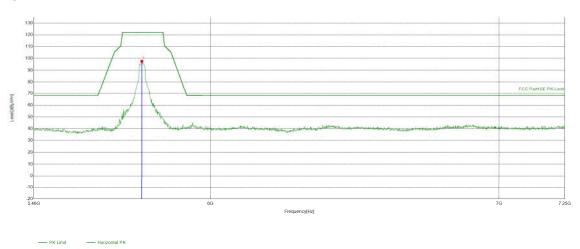
Suspe	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5745.6478	-7.66	104.51	96.85	122.20	25.35	PASS	Vertical	PK



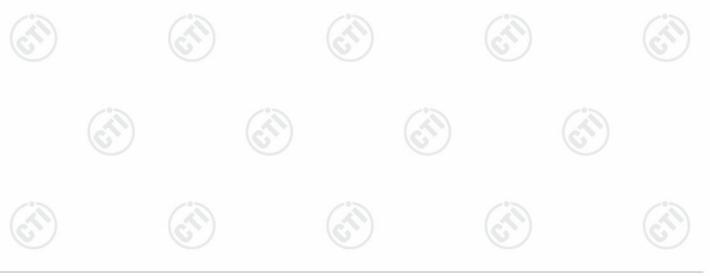


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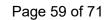
		103	100
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5785MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\		



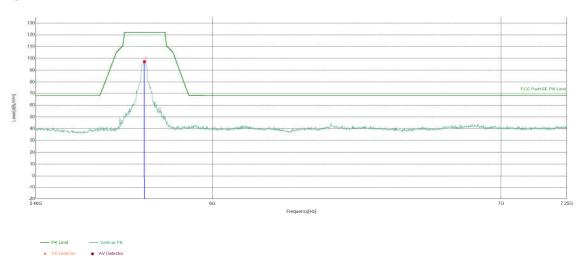
Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5784.1521	-7.69	105.37	97.68	122.20	24.52	PASS	Horizontal	PK



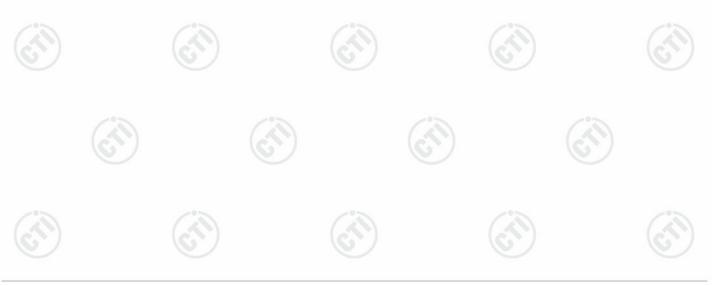




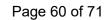
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5785MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\	(3)	(4)



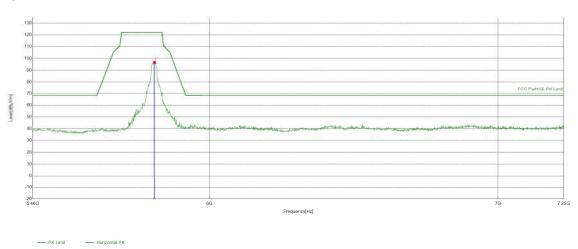
Suspe	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5785.943	-7.69	105.07	97.38	122.20	24.82	PASS	Vertical	PK



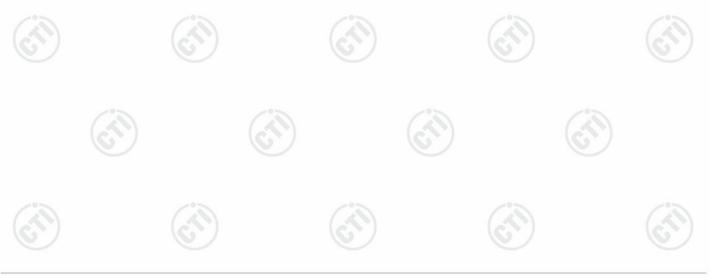




EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5825MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\	(3)	(40)



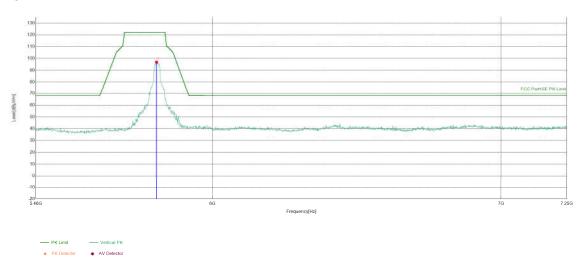
Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5826.2381	-7.62	104.30	96.68	122.20	25.52	PASS	Horizontal	PK



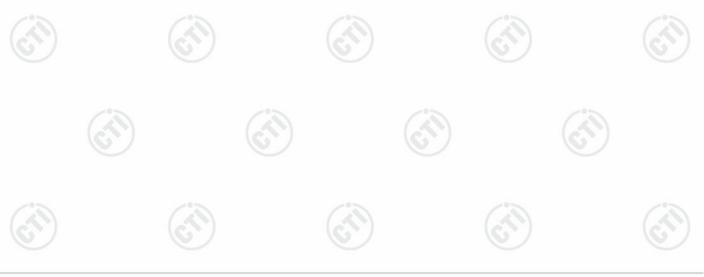




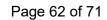
		100	
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5825MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\		(1)



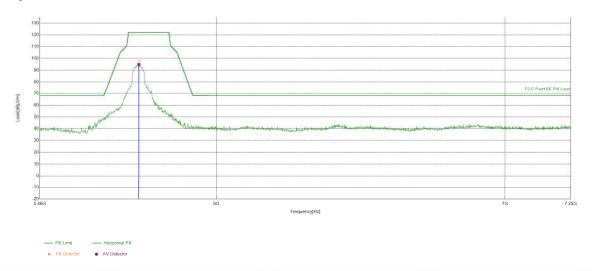
Suspec	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5823.5518	-7.63	104.55	96.92	122.20	25.28	PASS	Vertical	PK



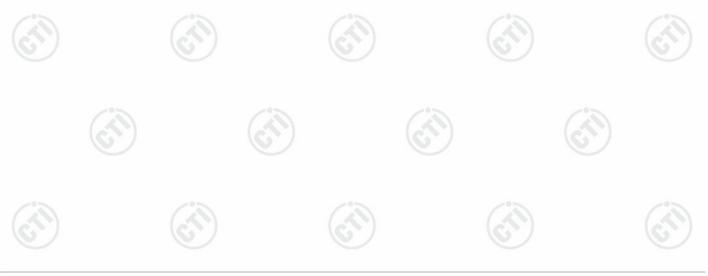




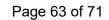
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5755MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\	(2)	(2)



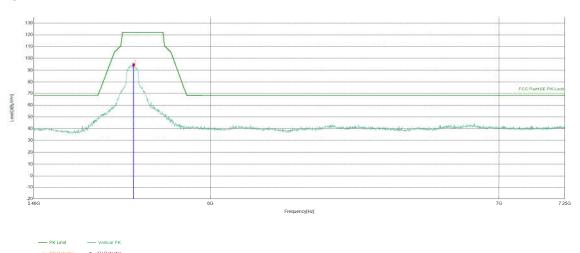
Suspec	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5756.3932	-7.52	102.58	95.06	122.20	27.14	PASS	Horizontal	PK



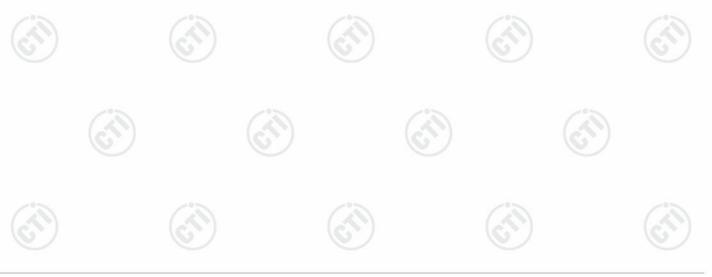




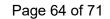
		102	
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5755MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\	(3)	(4)



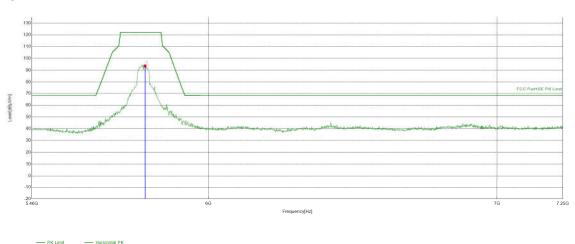
Suspe	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	5759.0795	-7.54	102.32	94.78	122.20	27.42	PASS	Vertical	PK	



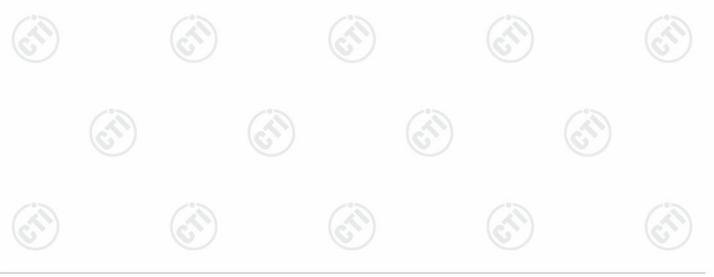




EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5795MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\	(3)	(4)



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5800.2701	-7.78	101.48	93.70	122.20	28.50	PASS	Horizontal	PK

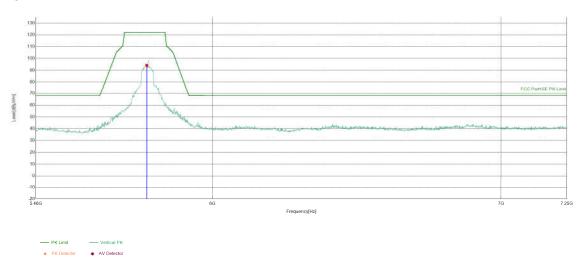




Report No.: EED32Q81556402 Page 65 of 71

	160		
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5795MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/12/10
Remark	23.5°C56.9%\		

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5793.1066	-7.74	102.01	94.27	122.20	27.93	PASS	Vertical	PK

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 1GHz to 25GHz, the disturbance above 13GHz 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.



















7 Appendix 5G Wi-Fi

Refer to Appendix: 5G Wi-Fi of EED32Q81556402























































































PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32Q81556401 for EUT external and internal photos.





















































































Report No.: EED32Q81556402 Page 71 of 71

Statement

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
- 5. Without written approval of CTI, this report can't be reproduced except in full.

