Report No.: DACE250320039RL004



V1.0

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Page 1 of 177

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Apply for company information

Applicant's Name	:	Shenzhen Ugoos Technology Co., Ltd	
Address	:	Room 5H, Building A, Bao'an Plaza, Sun'gang Road, Luohu District, Shenzhen	
Product Name	:	android tv box	
Test Model(s)	:	Sk2	
Series Model(s)	•	Sk4,sk2 pro	
Test Specification Standard(s)	:	47 CFR Part 15E	

NOTE1:

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The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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Compiled by:

Ben Tang

Ben Tang /Test Engineer April 11, 2025

Supervised by:

Tomchen Tom Chen / Project Engineer

April 11, 2025

Approved by:

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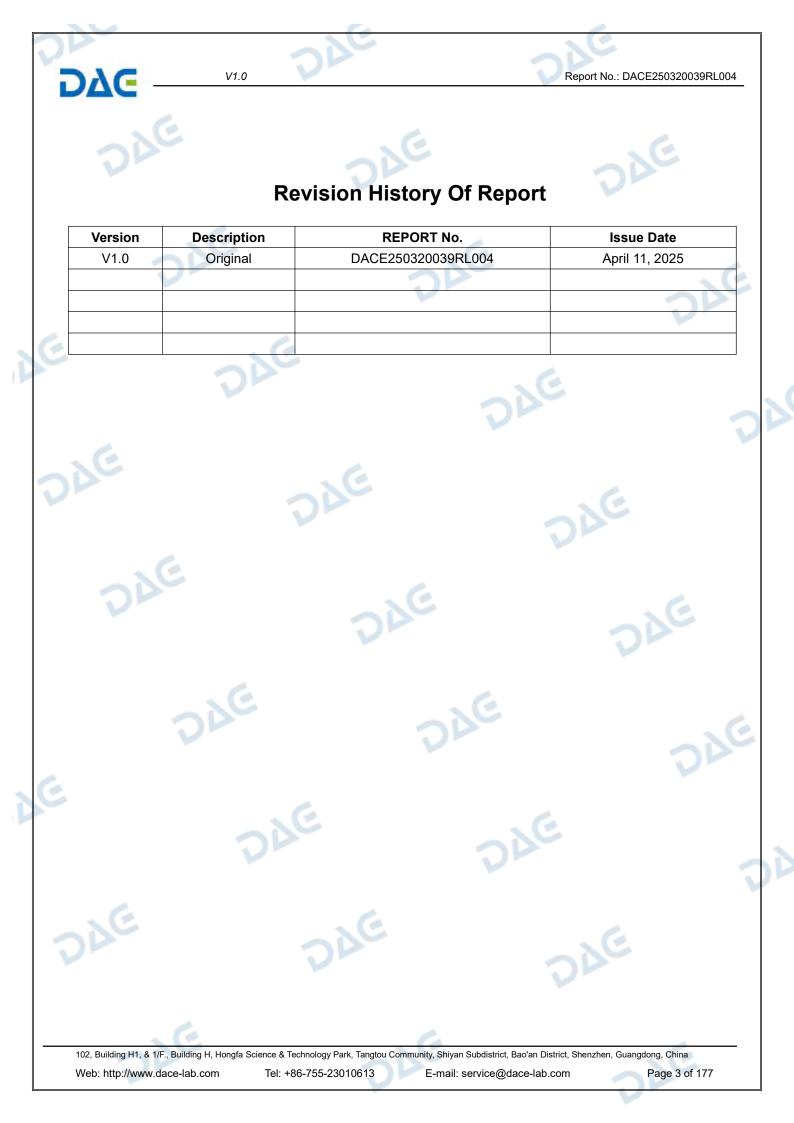
Machrel MJ Machael Mo / Manager

April 11, 2025

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26



CONTENTS

	Report No.: DACE250320039RL004
ODE	CONTENTS
1 TEST SUMMARY	
2.3 DESCRIPTION OF TEST MODES.	9
	S9
	E TEST
	30RATORY
3 EVALUATION RESULTS (EVALUATION	DN)
3.1 ANTENNA REQUIREMENT	
4 RADIO SPECTRUM MATTER TEST F	2ESULTS (RF)
	OWER LINE
	14
4.1.2 Test Setup Diagram:	
4.2 DUTY CYCLE	
4.2.1 E.U.T. Operation:	
	UPIED BANDWIDTH
•	
	2000 POWER
4.5.2 Test Setup Diagram:	
4.5.3 Test Data:	
•	ED)24
•	
	(BELOW 1GHz)
	авоvе 1GHz)
	(ABOVE 1GHZ)
•	
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Page 4 of 177

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5 TEST SETUP PHOTOS	
6 PHOTOS OF THE EUT	
APPENDIX5.2G_WIFI	
126DB AND 99% EMISSION BANDWIDTH	54
2. DUTY CYCLE	
3. MAXIMUM CONDUCTED OUTPUT POWER	
4. Power Spectral Density	
5. BANDEDGE	
5. BANDEDGE	
7. FREQUENCY STABILITY	107
APPENDIX5.8G_WIFI	111
	V
- 16DB EMISSION BANDWIDTH 2 265B AND 20% EMISSION BANDWIDTH	
2 2000 AND 99% EMISSION DANDWIDTH	120
3. DUTY CYCLE	
4. MAXIMUM CONDUCTED OUTPUT POWER	
5. Power Spectral Density	
6. BANDEDGE	

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TEST SUMMARY 1

1.1 Test Standards

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The tests were performed according to following standards:

47 CFR Part 15E: Unlicensed National Information Infrastructure Devices

1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
Antenna requirement	47 CFR Part 15E		Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15E	ANSI C63.10-2013 section 6.2	47 CFR Part 15.207(a)	Pass
Duty Cycle	47 CFR Part 15E	ANSI C63.10-2013 section 12.2 (b)	DAC	Pass
Emission bandwidth and occupied bandwidth	47 CFR Part 15E	ANSI C63.10-2013, section 6.9 & 12.4 KDB 789033 D02, Clause C.2	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. 47 CFR Part 15.407(e)	Pass
Maximum conducted output power	47 CFR Part 15E	ANSI C63.10-2013, section 12.3	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)	Pass
Power spectral density	47 CFR Part 15E	ANSI C63.10-2013, section 12.5	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)	Pass
Band edge emissions (Radiated)	47 CFR Part 15E	ANSI C63.10-2013, section 12.7.4, 12.7.6, 12.7.7	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	Pass
Undesirable emission limits (below 1GHz)	47 CFR Part 15E	ANSI C63.10-2013, section 12.7.4, 12.7.5	47 CFR Part 15.407(b)(9)	Pass
Undesirable emission limits (above 1GHz)	47 CFR Part 15E	ANSI C63.10-2013, section 12.7.4, 12.7.6, 12.7.7	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	Pass

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DA	V1.0	Report No.: DACE2503200
2	GENERAL INF	
2.1	Client Information	DAC
	Applicant's Name	: Shenzhen Ugoos Technology Co., Ltd
	Address	: Room 5H, Building A, Bao'an Plaza, Sun'gang Road, Luohu District, Shenzhen
	Manufacturer	: Shenzhen Ugoos Technology Co., Ltd
	Address	: Room 5H, Building A, Bao'an Plaza, Sun'gang Road, Luohu District, Shenzhen
2.2	Description of Dev	vice (EUT)
Γ	Product Name:	android tv box
F	Model/Type reference:	Sk2
	Series Model:	Sk4,sk2 pro
2	Model Difference:	The product has many models, only the model name and color is different the other parts such as the circuit principle, pcb and electrical structure are same.
	Trade Mark:	ugoos
F	Power Supply:	DC 12V/2A from adapter
0	Operation Frequency:	802.11a/n(HT20)/ac(HT20)/ax(HE20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(HT40)/ax(HE40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 3: 5755MHz to 5795MHz; 802.11ac(HT80)/ax(HE80): U-NII Band 1: 5210MHz; U-NII Band 3: 5775MHz
	Number of Channels:	802.11a/n(HT20)/ac(HT20)/ax(HE20): U-NII Band 1: 4; U-NII Band 3: 5; 802.11n(HT40)/ac(HT40)/ax(HE40): U-NII Band 1: 2; U-NII Band 3: 2; 802.11ac(HT80)/ax(HE80): U-NII Band 1: 1; U-NII Band 3: 1
	Modulation Type:	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);
F	Antenna Type:	Internal
	Antenna Gain:	3dBi
	Hardware Version:	V1.0
	Software Version:	V1.0
	Remark:The Antenna G related calculations asso	ain is supplied by the customer.DACE is not responsible for this data an ociated with it

Report No.: DACE250320039RL004

Operation Frequency each of channel

802.11a/n(HT20)/ac(HT20)		
	U-NII Band 1	U-NII Band 3
Channel	Frequency	Frequency
1	5180 MHz	5745 MHz
2	5200 MHz	5765 MHz
3	5220 MHz	5785 MHz
4	5240 MHz	5805 MHz
5	/	5825 MHz

802.11n(HT40)/ac(HT40)

	U-NII Band 1	U-NII Band 3
Channel	Frequency	Frequency
1	5190 MHz 📃	5755 MHz
2	5230 MHz	5795 MHz

802.11ac(HT80)

	U-NII Band 1	U-NII Band 3
Channel	Frequency	Frequency
1	5210 MHz	5775 MHz

Note:

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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:

802.11a/n(HT20)/ac(HT20)		
	U-NII Band 1	U-NII Band 3
Test channel	Frequency (MHz)	Frequency (MHz)
Lowest channel	5180 MHz	5745 MHz
Middle channel	5200 MHz	5785 MHz
Highest channel	5240 MHz	5825 MHz

802.11n(HT40)/ac(HT40)		
	U-NII Band 1	U-NII Band 3
Test channel	Frequency (MHz)	Frequency (MHz)
Lowest channel	5190 MHz	5755 MHz
Highest channel	5230 MHz	5795 MHz

802.11ac(HT80)		
	U-NII Band 1	U-NII Band 3
Test channel	Frequency (MHz)	Frequency (MHz)
Middle channel	5210 MHz	5775 MHz

Report No.: DACE250320039RL004

2.3 Description of Test Modes

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No	Title	Description
TM1	802.11a mode	Keep the EUT in continuously transmitting mode with 802.11a modulation type at lowest, middle and highest channel. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
TM2	802.11n mode	Keep the EUT in continuously transmitting mode with 802.11n modulation type at lowest, middle and highest channel. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
TM3	802.11ac mode	Keep the EUT in continuously transmitting mode with 802.11ac modulation type at lowest, middle and highest channel. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Remark:Only the data of the worst mode would be recorded in this report.

2.4 Description of Support Units

The EUT was tested as an independent device.

2.5 Equipments Used During The Test

Conducted Emission a	at AC power line				
Equipment	Equipment Manufacturer Mo		Inventory No	Cal Date	Cal Due Date
Power absorbing clamp	SCHWARZ BECK	MESS- ELEKTRONIK	1	2024-05-20	2025-05-19
Electric Network	SCHWARZ BECK	CAT5 8158	CAT5 8158#207	1	Se,
Cable	SCHWARZ BECK	1	1	2024-05-20	2025-05-19
Pulse Limiter SCHWARZ BECK		VTSD 9561-F Pulse limiter 10dB Attenuation	561-G071	2024-12-06	2025-12-05
50ΩCoaxial Switch	Anritsu	MP59B	M20531	/	
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	ID:1164.6607K 03-102109- MH	2024-06-12	2025-06-11
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2023-12-12	2025-12-11
L.I.S.N	SCHWARZ BECK	NSLK 8126	05055	2024-06-14	2025-06-13
Pulse Limiter	CYBERTEK	EM5010A	/	2024-09-27	2025-09-26
EMI test software	EZ -EMC	EZ	V1.1.42	/	/
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Duty	Cycle
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Duty Cycle Emission bandwidth and occupied bandwidth Maximum conducted output power Power spectral density						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
RF Test Software	Tachoy Information Technology(she nzhen) Co.,Ltd.	RTS-01	V1.0.0	/	1	
Power divider	MIDEWEST	PWD-2533	SMA-79	2023-05-11	2026-05-10	
RF Sensor Unit	Tachoy Information Technology(she nzhen) Co.,Ltd.	TR1029-2	000001	/	/	
Wideband radio communication tester	R&S	CMW500	113410	2024-06-12	2025-06-11	
Vector Signal Generator	Keysight	N5181A	MY50143455	2024-12-06	2025-12-05	
Signal Generator	Keysight	N5182A	MY48180415	2024-12-06	2025-12-05	
Spectrum Analyzer	Keysight	N9020A	MY53420323	2024-12-06	2025-12-05	

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Undesirable emission	Undesirable emission limits (below 1GHz) Undesirable emission limits (above 1GHz) Band edge emissions (Radiated)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
EMI Test software	Farad	EZ -EMC	V1.1.42	/	/			
Positioning Controller	MF	MF-7802	<u> </u>	/	/			
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2023-05-19	2025-05-18			
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2023-05-19	2025-05-18			
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2024-06-14	2026-06-13			
Cable(LF)#2	Schwarzbeck	/	/	2024-12-19	2025-12-18			
Cable(LF)#1	Schwarzbeck	/	1	2024-12-19	2025-12-18			
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2024-05-20	2025-05-19			
Cable(HF)#1	Schwarzbeck	SYV-50-3-1		2024-05-20	2025-05-19			
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2024-06-12	2025-06-11			
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2024-06-12	2025-06-11			
Wideband radio communication tester	R&S	CMW500	113410	2024-06-12	2025-06-11			
Spectrum Analyzer	R&S	FSP30	1321.3008K40 -101729-jR	2024-06-12	2025-06-11			
Test Receiver	R&S	ESCI 3	1166.5950K03 -101431-Jq	2024-06-13	2025-06-12			
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12			
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2024-09-28	2026-09-27			

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Page 11 of 177

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Statement Of The Measurement Uncertainty 2.6

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	±3.41dB
Duty cycle	±3.1%
Occupied Bandwidth	±3.63%
RF conducted power	±0.733dB
RF power density	±0.234%
Radiated Emission (Above 1GHz)	±5.46dB
Radiated Emission (Below 1GHz)	±5.79dB
Note: (1) This upportainty represents on expanded u	upportainty overcoord at approvimately the OE0/

Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.7 Identification of Testing Laboratory

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.				
Address:	102 Building H1 & 1/F., Building H, Hongfa Science & Technology Park,				
	Tangtou, Shiyan, Bao' an District, Shenzhen, Guangdong, China				
Phone Number:	+86-13267178997				
Fax Number:	86-755-29113252				
Identification of the Respons	ible Testing Location				
Company Name:	Shenzhen DACE Testing Technology Co., Ltd.				
Adductor	102 Building H1 & 1/F., Building H, Hongfa Science & Technology Park,				
Address:	Tangtou, Shiyan, Bao' an District, Shenzhen, Guangdong, China				
Phone Number:	+86-13267178997				
Fax Number:	86-755-29113252				
Designation Number:	CN1342				
Test Firm Registration	778666				
Number:					
A2LA Certificate Number:	A2LA Certificate Number: 6270.01				
0.0					

2.8 Announcement

(1) The test report reference to the report template version v0.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing,

reviewing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) This document may not be altered or revised in any way unless done so by DACE and all revisions are duly noted in the revisions section.

(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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Report No.: DACE250320039RL004

Evaluation Results (Evaluation) 3

3.1 Antenna requirement

Test Requirement:

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Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.1.1 Conclusion:

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Page 13 of 177

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Radio Spectrum Matter Test Results (RF) 4

4.1 Conducted Emission at AC power line

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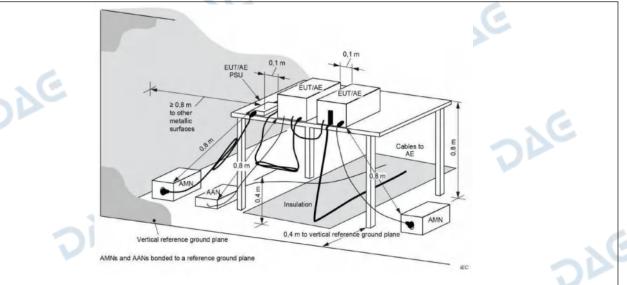
Test Requirement:	47 CFR Part 15.207(a)		V	
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBµV)		
		Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	70
	5-30	60	50	
	*Decreases with the logarithm of the	ne frequency.	V	
Test Method:	ANSI C63.10-2013 section 6.2			
4.1.1 E.U.T. Operation				

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Operating Envir	onment:					
Temperature:	22.9 °C		Humidity:	48 %	Atmospheric Pressure:	102 kPa
Pretest mode:		TM1				
Final test mode:	:	TM1				
1 4 0 T						

4.1.2 Test Setup Diagram:

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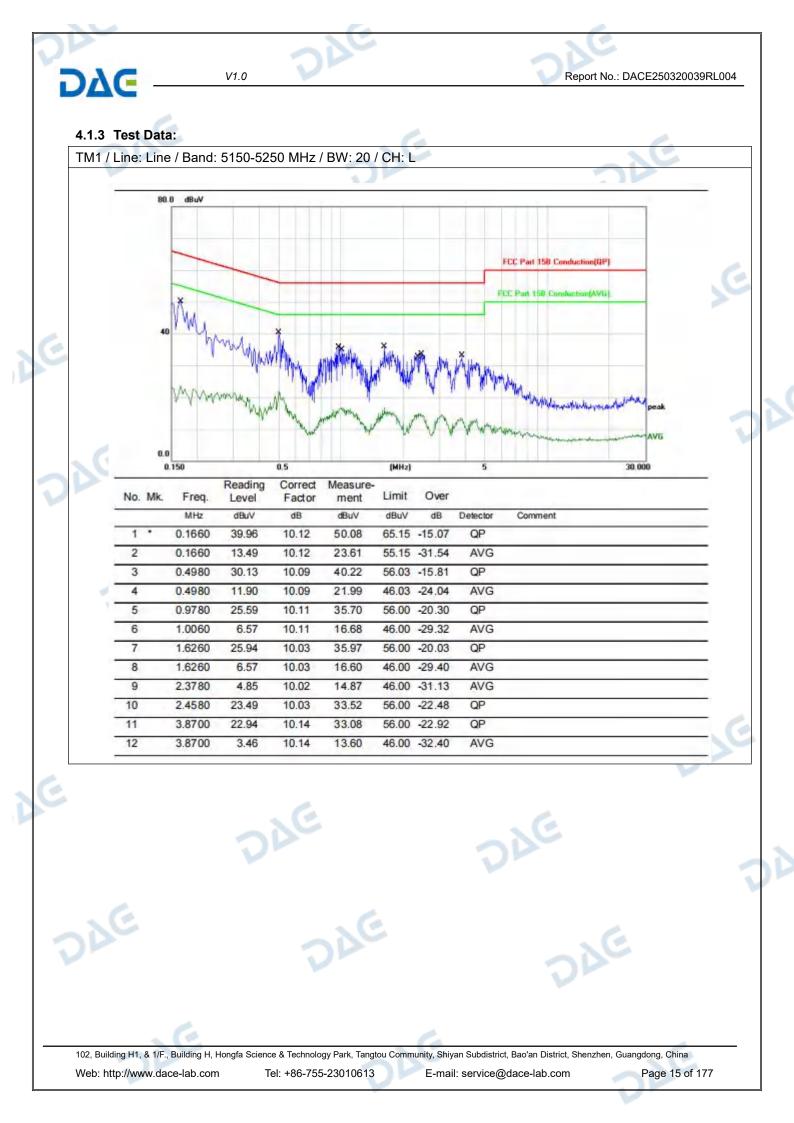
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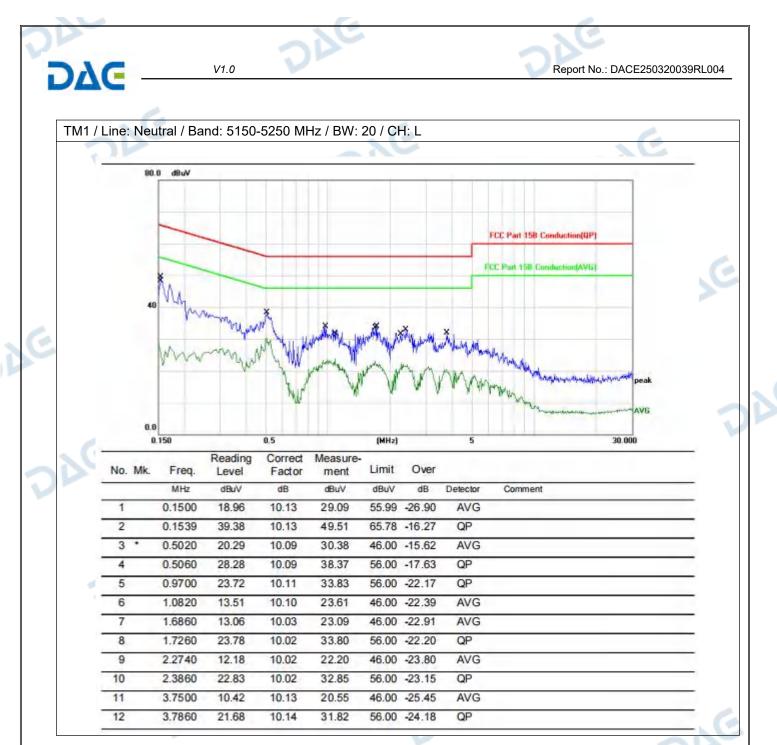
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Page 16 of 177

Report No.: DACE250320039RL004

4.2 Duty Cycle

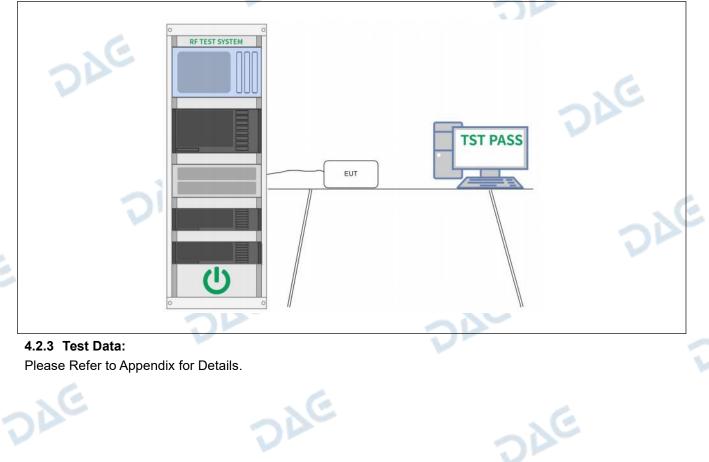
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Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.
Test Limit:	No limits, only for report use.
Test Method:	ANSI C63.10-2013 section 12.2 (b)
Procedure:	 i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW >= EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW >= RBW. iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.

4.2.1 E.U.T. Operation:

Operating Environment:							
Temperature:	22.9 °C		Humidity:	48 %	Atmospheric Pressure:	102 kPa	
Pretest mode:		TM1,	TM2, TM3	-			
Final test mode		TM1,	TM2, TM3	C		<i>e</i> .	

4.2.2 Test Setup Diagram:



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4.3 Emission bandwidth and occupied bandwidth

Test Requirement:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Test Limit:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
	U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.
Test Method:	ANSI C63.10-2013, section 6.9 & 12.4 KDB 789033 D02, Clause C.2
Procedure:	Emission bandwidth: a) Set RBW = approximately 1% of the emission bandwidth. b) Set the VBW > RBW. c) Detector = peak. d) Trace mode = max hold. e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as meaded until the RBW/CDW actin is approximately 19(
	as needed until the RBW/EBW ratio is approximately 1%.
	Occupied bandwidth: a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
	 b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the
	 applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral environment.
	envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
	d) Step a) through step c) might require iteration to adjust within the specified range.
	e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode
	shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
	 f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
	g) If the instrument does not have a 99% power bandwidth function, then the trace data points are
	recovered and directly summed in linear power terms. The recovered amplitude data points,
	beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached;
	 that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power
.6	bandwidth is

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E		the h) inst disp Tab be 6 d a) 5 c) I d) 7 e) 5 f) A g) f free free the	The occupied b trument olay; the plot a pular data may reported in add B emission ban Set RBW = 100 Set the video b Detector = Pea Trace mode = r Sweep = auto o Ilow the trace the Measure the m quencies assoc	xes and the sca dition to the plot ndwidth:) kHz. andwidth (VBW k. max hold. couple. to stabilize. aximum width c ciated with the t are attenuated l	frequencies. be reported by providing pl ale units per division shall b (s).	ot(s) of the measuring e clearly labeled. trained by the ints (upper and lower
	4.3.1 E.U.T. O				V	
	Operating Envir	onment:		1	1	
	Temperature:	22.9 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa

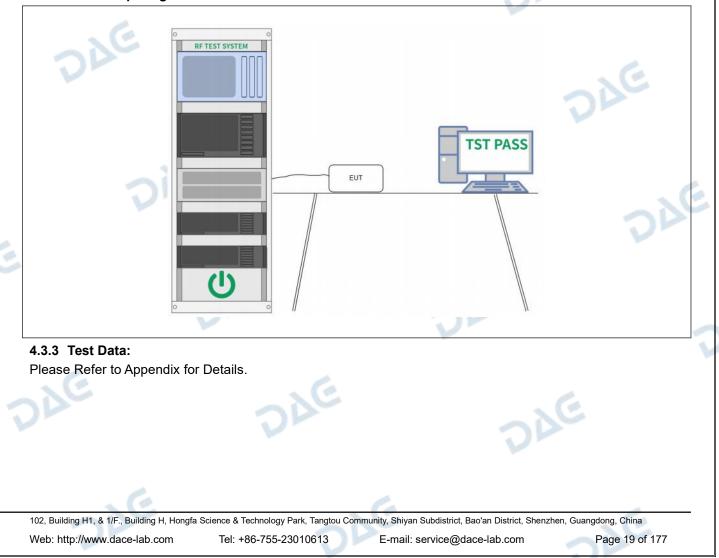
4.3.2 Test Setup Diagram:

Pretest mode:

Final test mode:

TM1, TM2, TM3

TM1, TM2, TM3



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Report No.: DACE250320039RL004

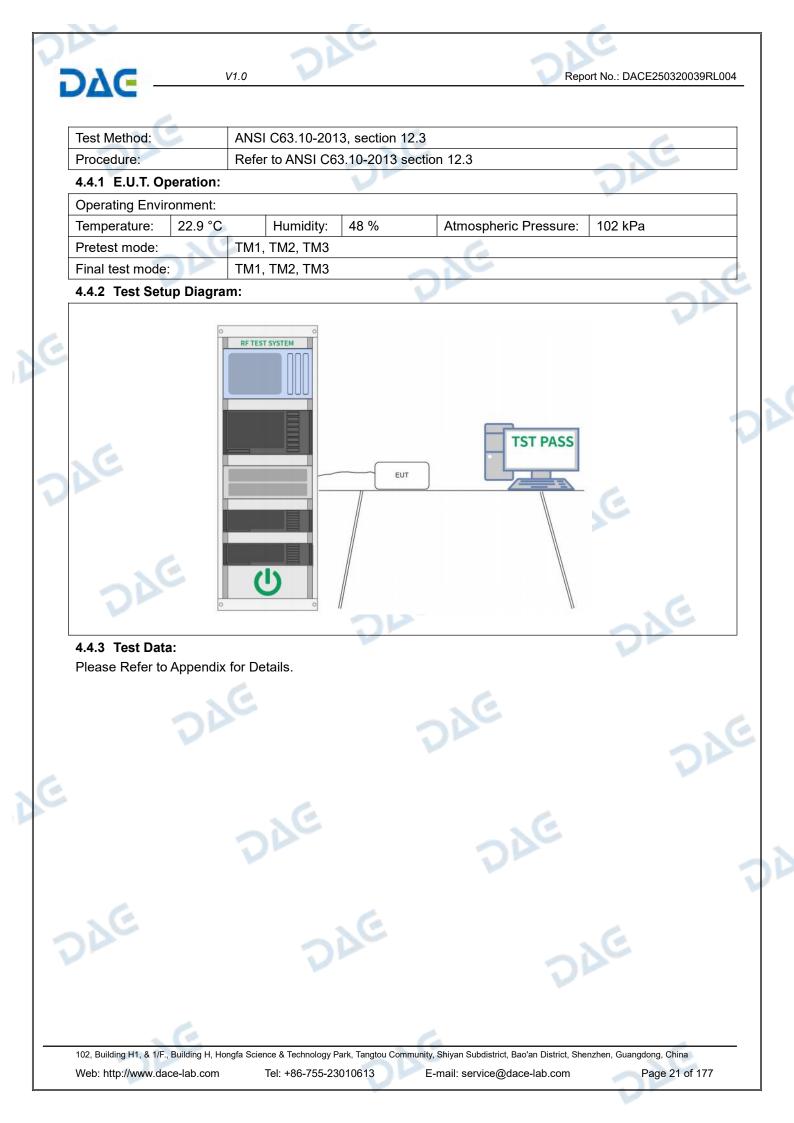
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Test Requirement:	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)
Test Limit:	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 V provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
	For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 v provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
	For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output
DAE	 Power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
	For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided th maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
	For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional
	applications exclude the use of point-to-multipoint systems, offindirectional applications, and multiple collocated transmitters transmitting the same informatio The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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4.5	Power	spectral	density
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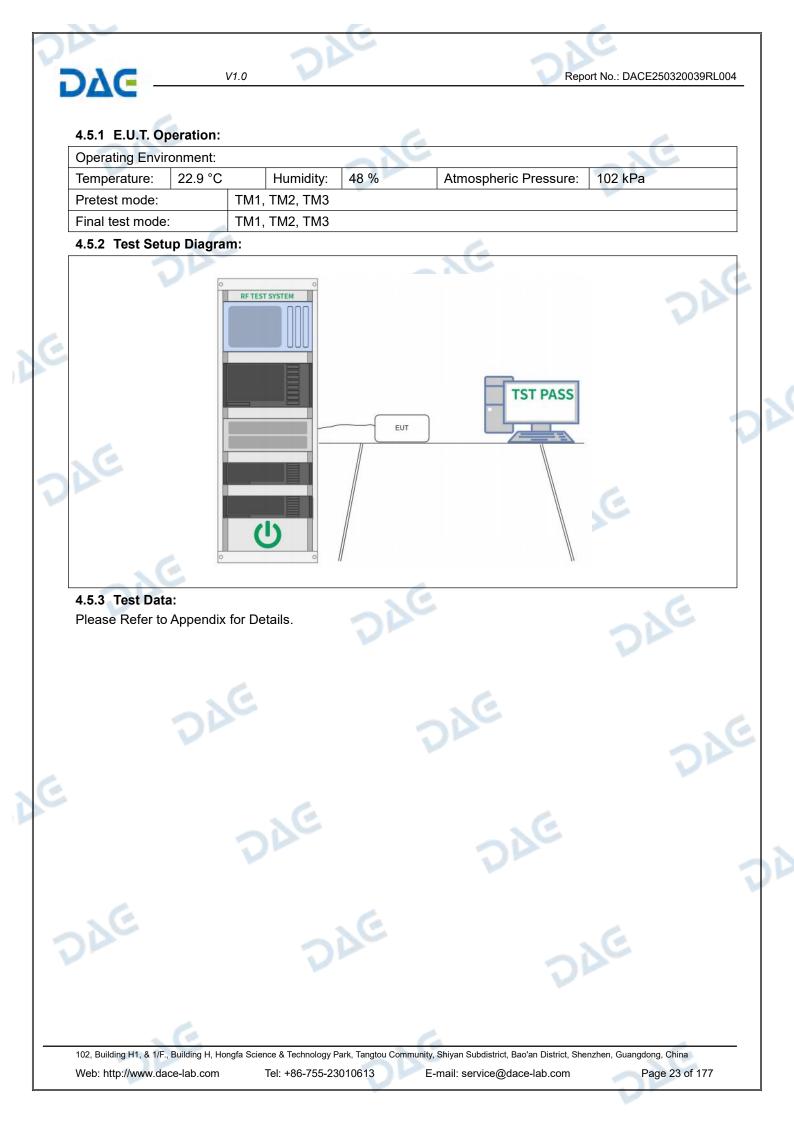
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4.5 Power spectral		
Test Requirement:	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)	DAC
Test Limit:	For an outdoor access point operating in the b power spectral density shall not exceed 17 dB If transmitting antennas of directional gain gre maximum power spectral density shall be redu directional gain of the antenna exceeds 6 dBi.	m in any 1 megahertz band. ater than 6 dBi are used, the uced by the amount in dB that the
	For an indoor access point operating in the ba power spectral density shall not exceed 17 dB If transmitting antennas of directional gain gre maximum power spectral density shall be redu directional gain of the antenna exceeds 6 dBi.	m in any 1 megahertz band. ater than 6 dBi are used, the uced by the amount in dB that the
	For fixed point-to-point access points operatin maximum power spectral density shall not exc band. Fixed point-to-point U-NII devices may employ 23 dBi without any corresponding reduction in For fixed point-to-point transmitters that employ than 23 dBi, a 1 dB reduction in maximum pow each 1 dB of antenna gain in excess of 23 dBi	eed 17 dBm in any 1 megahertz antennas with directional gain up to the maximum power spectral density by a directional antenna gain greater wer spectral density is required for
	Fixed, point-to-point operations exclude the us omnidirectional applications, and multiple collo same information. The operator of the U-NII do professionally installed, the installer, is respon employing high gain directional antennas are point operations.	se of point-to-multipoint systems, ocated transmitters transmitting the evice, or if the equipment is sible for ensuring that systems
	For client devices in the 5.15-5.25 GHz band, shall not exceed 11 dBm in any 1 megahertz to If transmitting antennas of directional gain gre maximum power spectral density shall be redu directional gain of the antenna exceeds 6 dBi.	band. ater than 6 dBi are used, the uced by the amount in dB that the
	For the band 5.725-5.850 GHz, the maximum exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain gre maximum power spectral density shall be redu directional gain of the antenna exceeds 6 dBi. devices operating in this band may employ tra gain greater than 6 dBi without any correspon- conducted power.	ater than 6 dBi are used, the uced by the amount in dB that the However, fixed point-to-point U-NII insmitting antennas with directional ding reduction in transmitter
AE	Fixed, point-to-point operations exclude the us omnidirectional applications, and multiple collo same information. The operator of the U-NII do professionally installed, the installer, is respon employing high gain directional antennas are point operations.	ocated transmitters transmitting the evice, or if the equipment is sible for ensuring that systems
Test Method:	ANSI C63.10-2013, section 12.5	DF
Procedure:	Refer to ANSI C63.10-2013, section 12.5	

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Page 22 of 177



DγG

Report No.: DACE250320039RL004

est Requirement:	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)						
ēst Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more abov or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.						
	MHz	MHz	MHz	GHz			
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15			
	10.495-0.505	16.69475-16.69525	608-614	5.35-5.46			
	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75			
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5			
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2			
	4.20725-4.20775	73-74.6	1645.5- 1646.5	9.3-9.5			
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7			
	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4			
	6.31175-6.31225	123-138	2200-2300	14.47-14.5			
	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2			
	8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4			
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12			
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0			
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8			
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5			
	12.57675-12.57725	322-335.4	3600-4400	(2)			
	13.36-13.41						
	¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.						
	² Above 38.6	2					
	The field strength of en exceed the limits show MHz, compliance with t measurement instrume MHz, compliance with t on the average value o these measurements.	n in § 15.209. At freque he limits in § 15.209sh ntation employing a Cl he emission limits in §	encies equal to o all be demonstra SPR quasi-peak 15.209shall be o	r less than 1000 ated using detector. Above 100 demonstrated based			
	Except as provided else radiator shall not excee						

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Page 24 of 177

Report No.: DACE250320039RL004

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	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500 agraph (g), fundamental emis	3
	these frequency bands is per and 15.241. In the emission table above The emission limits shown in employing a CISPR quasi-p 110–490 kHz and above 100	4-216 MHz or 470-806 MHz. I ermitted under other sections , the tighter limit applies at the n the above table are based o eak detector except for the fr 00 MHz. Radiated emission li s employing an average dete	of this part, e.g., §§ 15.23 e band edges. on measurements equency bands 9–90 kHz, imits in these three bands
Test Method:	ANSI C63.10-2013, section	1 3 6 6	
Procedure:	Above 1GHz:	12.7.4, 12.7.0, 12.7.7	
	was mounted on the top of a c. The antenna height is var determine the maximum val polarizations of the antenna d. For each suspected emis the antenna was tuned to he below 30MHz, the antenna was turned from 0 degrees e. The test-receiver system Bandwidth with Maximum H f. If the emission level of the specified, then testing could reported. Otherwise the emi	rs away from the interference a variable-height antenna tow ied from one meter to four m ue of the field strength. Both are set to make the measure sion, the EUT was arranged eights from 1 meter to 4 meter was tuned to heights 1 meter to 360 degrees to find the ma was set to Peak Detect Func- lold Mode. EUT in peak mode was 10d be stopped and the peak va issions that did not have 10d ak or average method as spe	ver. eters above the ground to horizontal and vertical ement. to its worst case and then ers (for the test frequency o) and the rotatable table aximum reading. tion and Specified B lower than the limit lues of the EUT would be B margin would be re-
	 g. Test the EUT in the lowes h. The radiation measurement Transmitting mode, and four i. Repeat above procedures Remark: Level= Read Level+ Cabl Scan from 18GHz to 40G points marked on above plo 	st channel, the middle channel ents are performed in X, Y, Z and the X axis positioning whic until all frequencies measure le Loss+ Antenna Factor- Pre Hz, the disturbance above 18 ts are the highest emissions	axis positioning for ch it is the worst case. ed was complete. eamp Factor 8GHz was very low. The
	need not be reported.	s had been displayed. The ar which are attenuated more th for frequencies above 1GHz,	nan 20dB below the limit

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Report No.: DACE250320039RL004

under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report. 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

4.6.1 E.U.T. Operation:

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Operating Envir	Operating Environment:								
Temperature:	22.9 °C		Humidity:	48 %	Atmospheric Pressure:	102 kPa			
Pretest mode:		TM1,	TM2, TM3		JF 1		- 20		
Final test mode:		TM1,	TM2, TM3				DE		

4.6.2 Test Data:

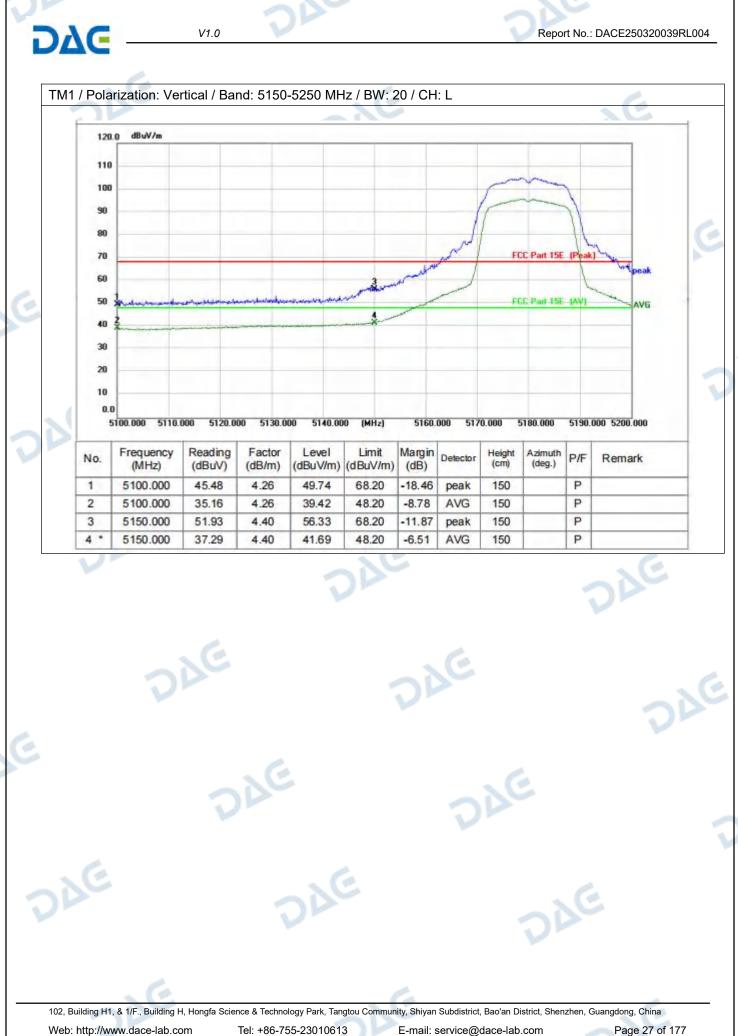
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TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L dBuV/m 120.0 110 100 90 80 70 FCC Part 15E (Pe 60 AVG 50 FCC 15E JAV 40 30 20 10 0.0 5100.000 5110.000 5120.000 5130.000 5140.000 5190.000 5200.000 (MHz) 5160.000 5170.000 5180.000 Factor Margin Frequency Reading Level Limit Height Azimuth No. Detector P/F Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) (cm) (deg.) 5100.000 48.02 4.26 52.28 68.20 -15.92 P 1 peak 2 5100.000 37.14 4.26 41.40 48.20 -6.80 AVG P P 3 5150.000 55.72 4.40 60.12 68.20 -8.08 peak P 4 * 5150.000 40.43 4.40 44.83 48.20 -3.37 AVG

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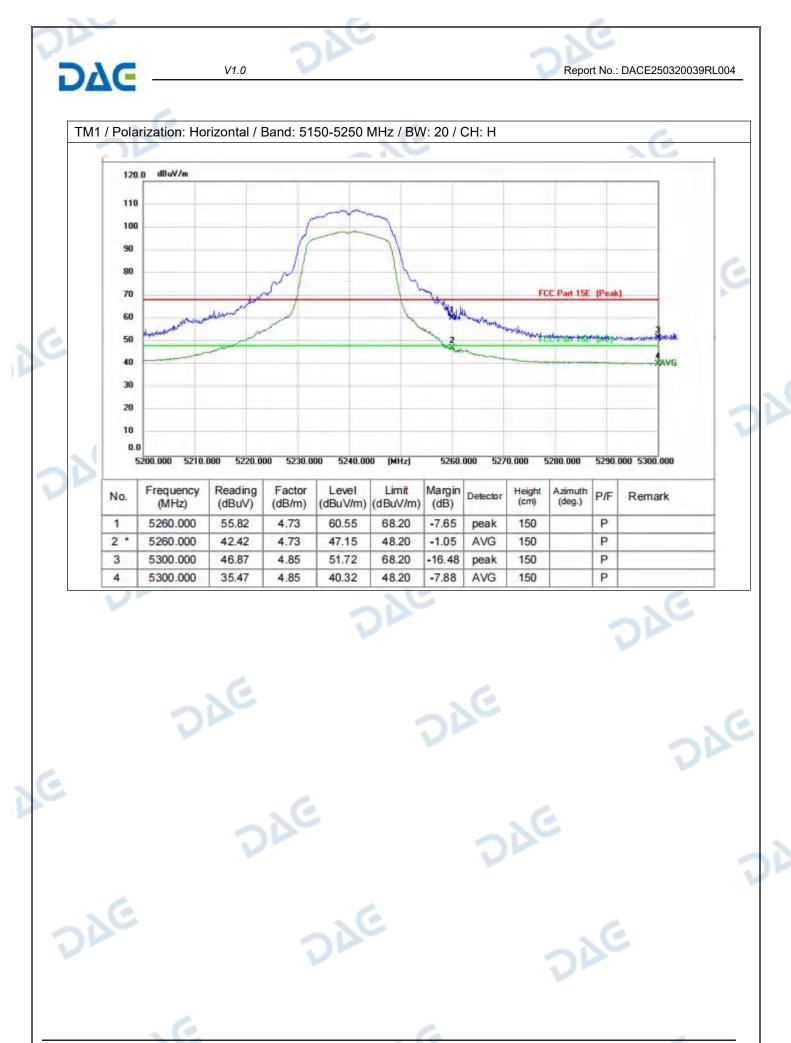
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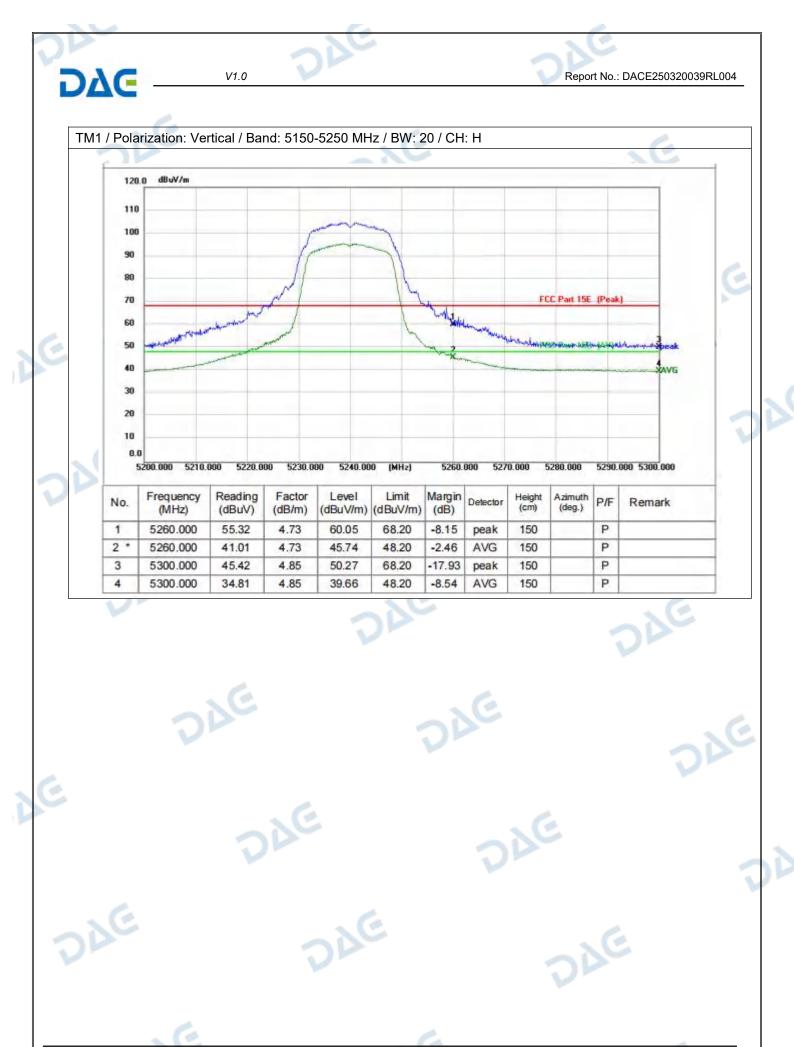
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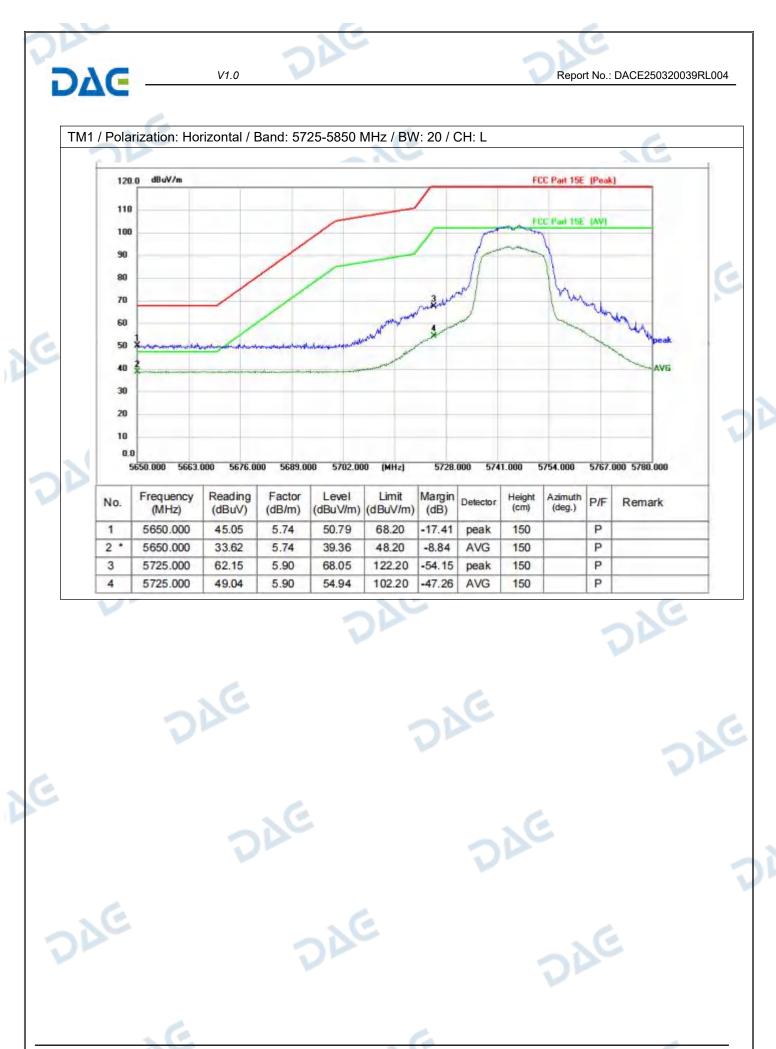


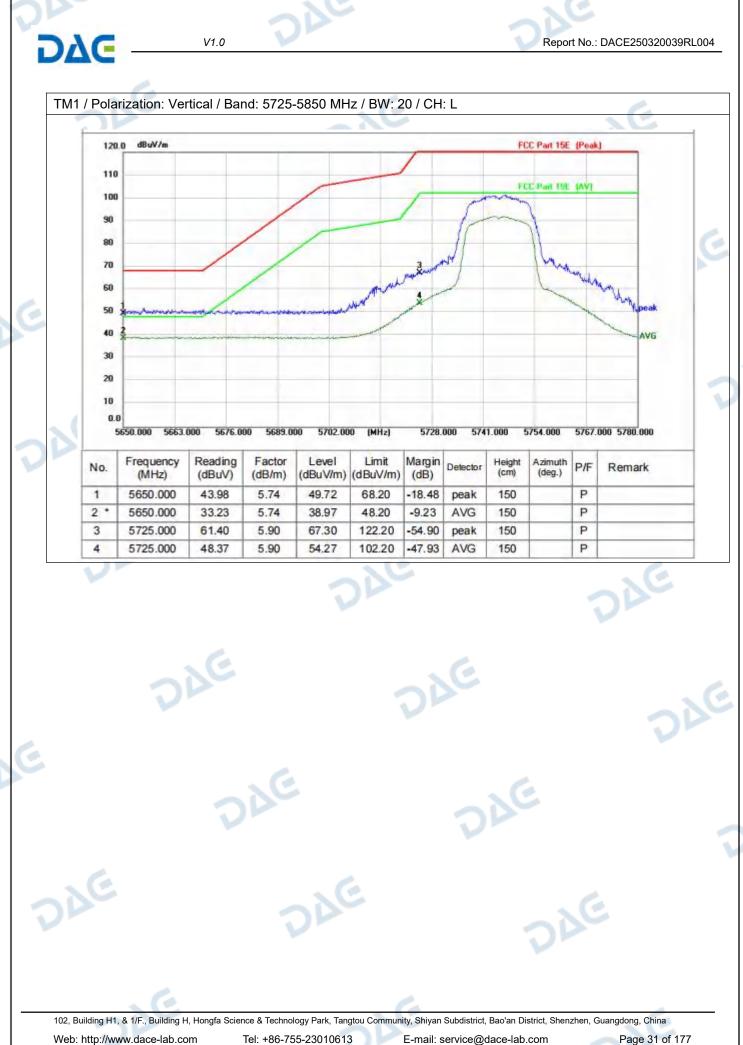
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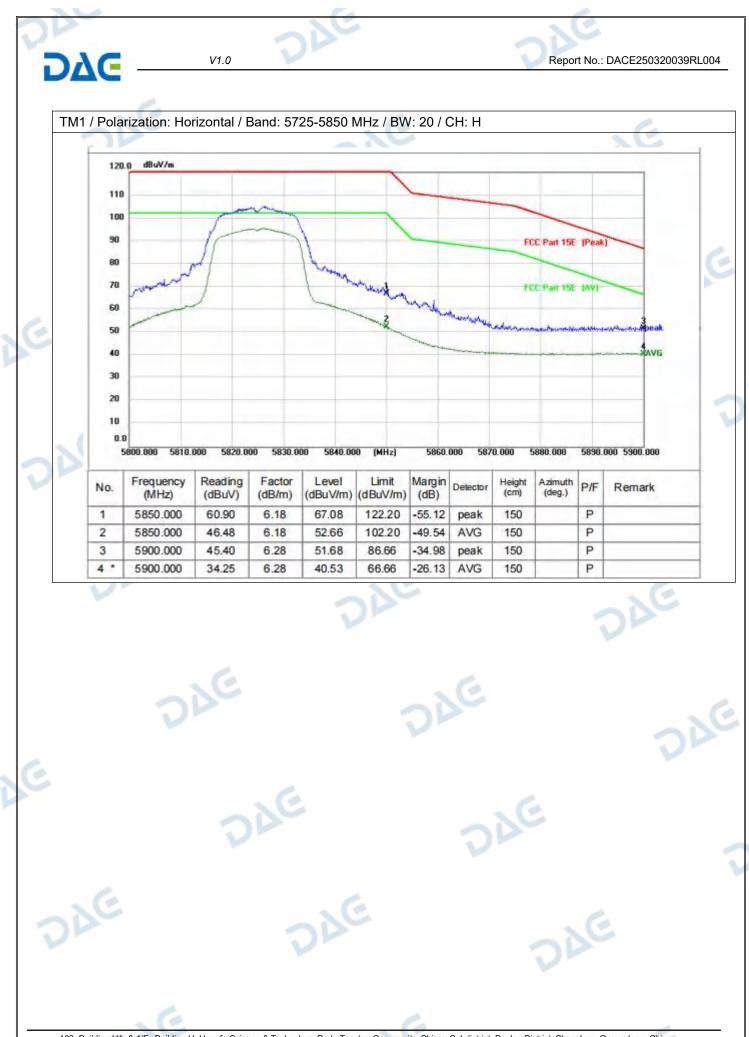


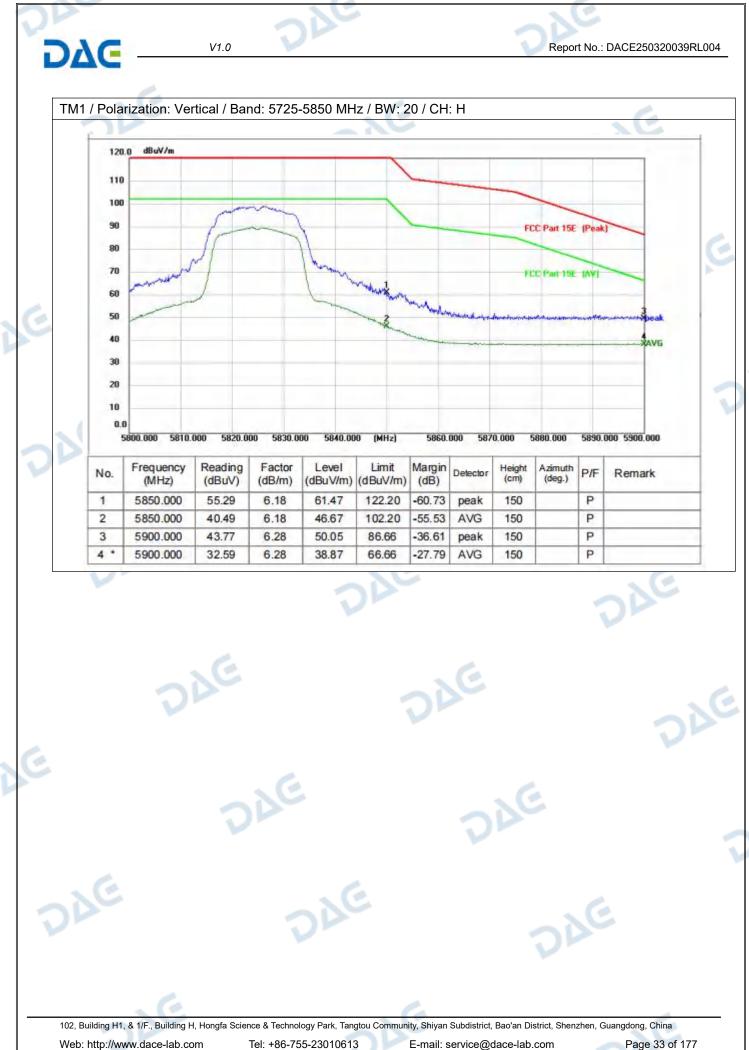


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Page 31 of 177





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Report No.: DACE250320039RL004

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4.7 Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)		200		
Test Limit:	Unwanted emissions belo set forth in § 15.209.	w 1 GHz must comply with the g	general field strength limits		
		here in this subpart, the emissio he field strength levels specified			
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)		
	0.009-0.490	2400/F(kHz)	300		
	0.490-1.705	24000/F(kHz)	30		
	1.705-30.0	30	30		
	30-88	100 **	3		
	88-216	150 **	3		
	216-960	200 **	3		
	Above 960	500	3		
	54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.				
Test Method:	ANSI C63.10-2013, sectio		- NG		
Procedure:	above the ground at a 3 m degrees to determine the b. The EUT was set 3 or 1 which was mounted on th c. The antenna height is w determine the maximum w polarizations of the antenn d. For each suspected em the antenna was tuned to below 30MHz, the antenn was turned from 0 degree e. The test-receiver system Bandwidth with Maximum f. If the emission level of t specified, then testing cou- reported. Otherwise the e- tested one by one using q data sheet. g. Test the EUT in the low h. The radiation measurer	UT was placed on the top of a re- neter semi-anechoic chamber. T position of the highest radiation. 0 meters away from the interfer e top of a variable-height antenr aried from one meter to four me- ralue of the field strength. Both h ha are set to make the measured hission, the EUT was arranged to heights from 1 meter to 4 meter a was tuned to heights 1 meter) s to 360 degrees to find the max- m was set to Peak Detect Function Hold Mode. he EUT in peak mode was 10dB udb be stopped and the peak value missions that did not have 10dB uasi-peak method as specified a est channel, the middle channel nents are performed in X, Y, Z a pund the X axis positioning whick	he table was rotated 360 rence-receiving antenna, a tower. eters above the ground to horizontal and vertical ment. b its worst case and then 's (for the test frequency o and the rotatable table kimum reading. ion and Specified B lower than the limit ues of the EUT would be margin would be re- and then reported in a , the Highest channel. xis positioning for		
.e	i. Repeat above procedur Remark: 1. Level= Read Level+ Ca	es until all frequencies measured able Loss+ Antenna Factor- Prea Community, Shiyan Subdistrict, Bao'an District, S	d was complete. amp Factor		

Report No.: DACE250320039RL004

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Above 1GHz:

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable 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 retested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, 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. Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report. 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

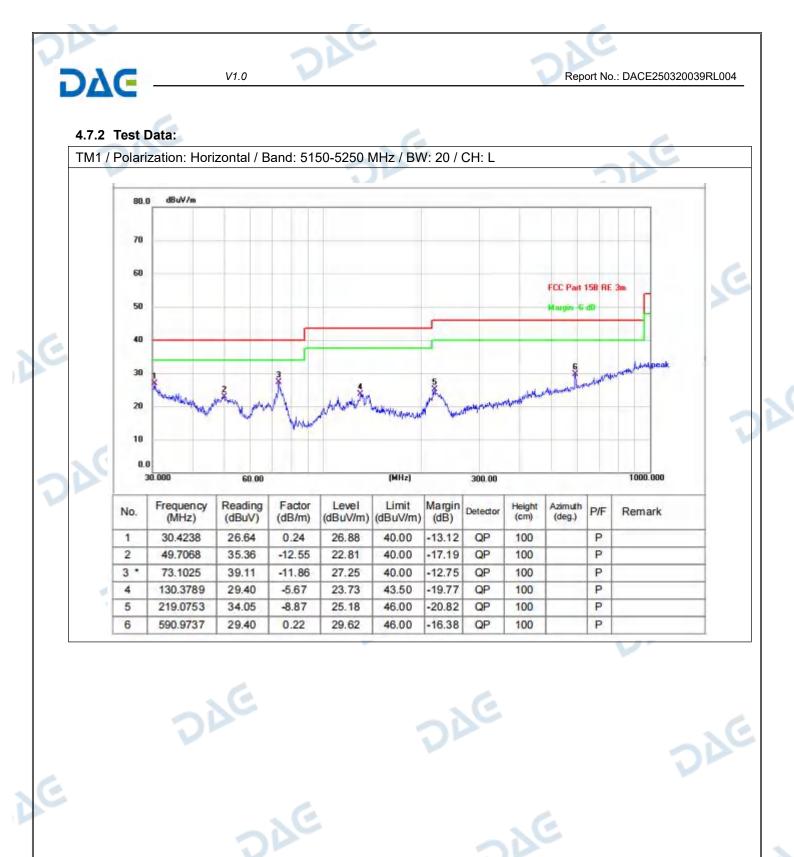
4.7.1 E.U.T. Operation:

Operating Environment:							
Temperature:	22.9 °C		Humidity:	48 %		Atmospheric Pressure:	102 kPa
Pretest mode:		TM1,	TM2, TM3	2			C
Final test mode:		TM1,	TM2, TM3			2	

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Page 35 of 177



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DAC V1.0 Report No.: DACE250320039RL004 TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L dBuV/m 80.0 78 60 FCC Part 15B RE 3m -50 40 8 30 20 10 0.0 (MHz) 1000.000 30.000 60.00 300.00 Frequency Reading Factor Level Limit Margin Height Azimuth No. Detector P/F Remark (MHz) (dBuV) (dB/m)(dBuV/m) (dBuV/m) (dB) (cm) (deg.) 126.3286 26.70 -5.68 21.02 43.50 22.48 QP 100 P 1 2 232.5318 31.88 -8.80 23.08 46.00 -22.92 QP 100 P 3 315.4808 31.36 -6.01 25.35 46.00 -20.65 QP 100 P 4 425,0280 29.11 -2.55 26.56 46.00 -19.44 QP 100 P 46.00 -16.32 100 P 5 670.4893 28.11 1.57 29.68 QP 6 * 925.7563 26.66 6.34 33.00 46.00 -13.00 QP 100 P

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Report No.: DACE250320039RL004

48 Undesirable emission limits (above 1GHz)

est Requirement:	47 CFR Part 15.407(b)	47 CFR Part 15.407(b)(1)					
	47 CFR Part 15.407(b)	(4)					
	47 CFR Part 15.407(b)						
ēst Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.						
	For transmitters operat	ing solely in the 5.725-	5.850 GHz band	:			
	All emissions shall be l						
	or below the band edge below the band edge, a						
	linearly to a level of 15.	6 dBm/MHz at 5 MHz	above or below t	he band edge, and			
	from 5 MHz above or b dBm/MHz at the band e		creasing linearly	to a level of 27			
	MHz	MHz	MHz	GHz			
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15			
	¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46			
	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75			
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5			
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2			
	4.20725-4.20775	73-74.6	1645.5-	9.3-9.5			
			1646.5				
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7			
	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4			
	6.31175-6.31225	123-138	2200-2300	14.47-14.5			
	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2			
	8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4			
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12			
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0			
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8			
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5			
	12.57675-12.57725	322-335.4	3600-4400	(2)			
	13.36-13.41						
	¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.						
	² Above 38.6						
	The field strength of en						
	exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209shall be demonstrated using						
	measurement instrumentation employing a CISPR quasi-peak detector. Above 1000						
	MHz, compliance with the emission limits in § 15.209shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35apply to these measurements.						
	Except as provided els radiator shall not excee						
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Report No.: DACE250320039RL004

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	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	radiators operating under th 54-72 MHz, 76-88 MHz, 174 these frequency bands is per and 15.241.	agraph (g), fundamental emis is section shall not be located I-216 MHz or 470-806 MHz. H ermitted under other sections	l in the frequency bands However, operation within of this part, e.g., §§ 15.23
E	The emission limits shown in employing a CISPR quasi-p 110–490 kHz and above 100	, the tighter limit applies at the n the above table are based o eak detector except for the fre 00 MHz. Radiated emission lin s employing an average detect	on measurements equency bands 9–90 kHz mits in these three bands
Test Method:	ANSI C63.10-2013, section	12.7.4, 12.7.6, 12.7.7	~ C.
	 degrees to determine the port b. The EUT was set 3 meter was mounted on the top of a c. The antenna height is var determine the maximum val polarizations of the antenna d. For each suspected emist the antenna was tuned to be below 30MHz, the antenna was turned from 0 degrees e. The test-receiver system Bandwidth with Maximum H f. If the emission level of the specified, then testing could reported. Otherwise the emit tested one by one using pear a data sheet. g. Test the EUT in the lowes h. The radiation measurement 	ter fully-anechoic chamber. The position of the highest radiation is away from the interference- a variable-height antenna tow- ied from one meter to four me ue of the field strength. Both I are set to make the measure sion, the EUT was arranged t eights from 1 meter to 4 meter was tuned to heights 1 meter) to 360 degrees to find the ma was set to Peak Detect Funct old Mode. EUT in peak mode was 10dE be stopped and the peak val ssions that did not have 10dE ak or average method as spec- et channel, the middle channe ents are performed in X, Y, Z and the X axis positioning whic	-receiving antenna, which er. eters above the ground to horizontal and vertical ement. o its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. tion and Specified B lower than the limit ues of the EUT would be 8 margin would be re- cified and then reported in I, the Highest channel. axis positioning for
	Remark: 1. Level= Read Level+ Cabl 2. Scan from 18GHz to 40G points marked on above plo testing, so only above points emissions from the radiator need not be reported. 3. As shown in this section, based on average limits. Ho	until all frequencies measure e Loss+ Antenna Factor- Prea Hz, the disturbance above 18 ts are the highest emissions of s had been displayed. The arr which are attenuated more th for frequencies above 1GHz, wever, the peak field strength tted average limits specified a	amp Factor GHz was very low. The could be found when aplitude of spurious an 20dB below the limit the field strength limits ar of any emission shall not

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Report No.: DACE250320039RL004

under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report. 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

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4.8.1 E.U.T. Operation:

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Operating Envir	onment:						
Temperature:	22.9 °C		Humidity:	48 %	Atmospheric Pressure:	102 kPa	
Pretest mode:		TM1,	TM2, TM3		Jr Jr		- 20
Final test mode:		TM1,	TM2, TM3				N

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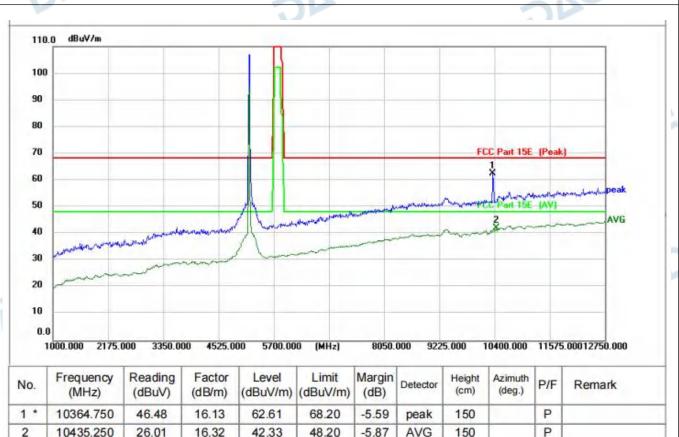
24C

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DAC V1.0 4.8.2 Test Data: TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



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Report No.: DACE250320039RL004

DAC V1.0 Report No.: DACE250320039RL004 TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L dBuV/m 110.0 100 90 80 70 FC8 Part 15E [Peak] 60 50 AVG 40 30 20 10 0.0 1000.000 2175.000 3350.000 4525.000 5700.000 (MHz) 8050.000 9225.000 10400.000 11575.00012750.000 Level Frequency Reading Factor Margin Limit Height Azimuth Detector P/F No. Remark (deg.) (dBuV) (dB) (cm) (MHz) (dB/m)(dBuV/m) (dBuV/m) 1 * 10364.750 50.77 16.13 66.90 68.20 -1.30 150 P peak 2 10364.750 30.63 16.13 46.76 48.20 -1.44 AVG 150 P 2

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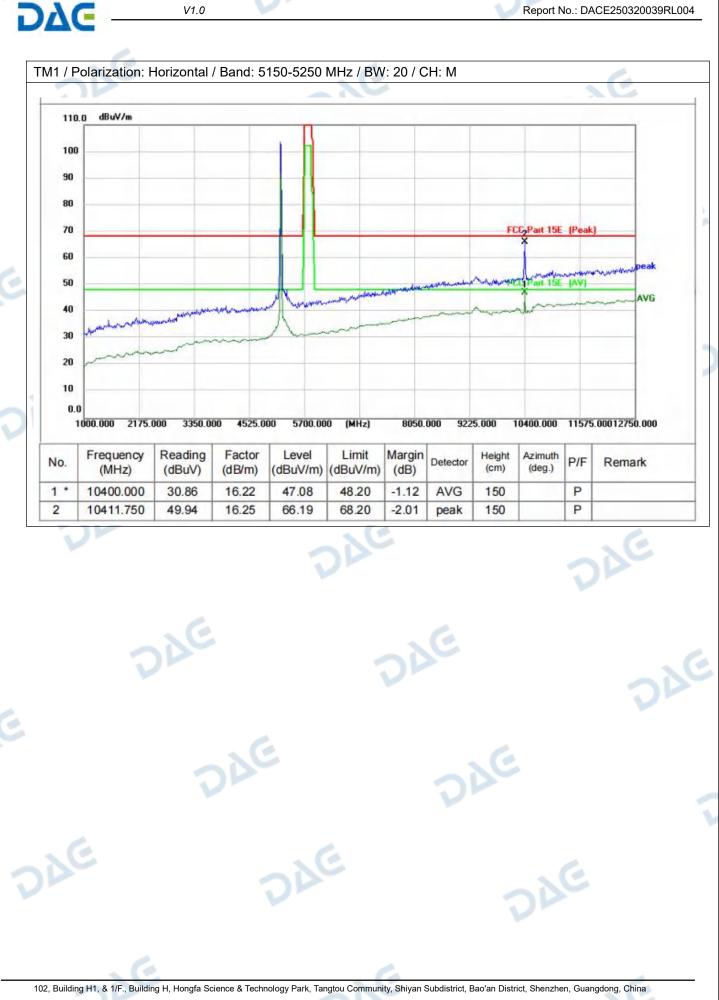
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China Web: http://www.dace-lab.com Tel: +86-755-23010613 E-mail: service@dace-lab.com

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DAC V1.0 Report No.: DACE250320039RL004 TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: M dBuV/m 110.0 100 90 80 FCC Part 15E (Peak) 70 60 50 AVG 40 30 20 10 0.0 1000.000 2175.000 3350.000 4525.000 5700.000 (MHz) 10400.000 11575.00012750.000 8050.000 9225.000 Frequency Reading Factor Level Limit Margin Height Azimuth Detector P/F No. Remark (MHz) (dBuV) (dB/m)(dBuV/m) (dBuV/m) (dB)(cm) (deg.) 10400.000 49.73 16.22 65.95 68.20 -2.25 P 1 * peak 150 2 10400.000 26.94 16.22 43.16 48.20 -5.04 AVG 150 P DAE DAG DE -DAG)AC DAG DAG DAG

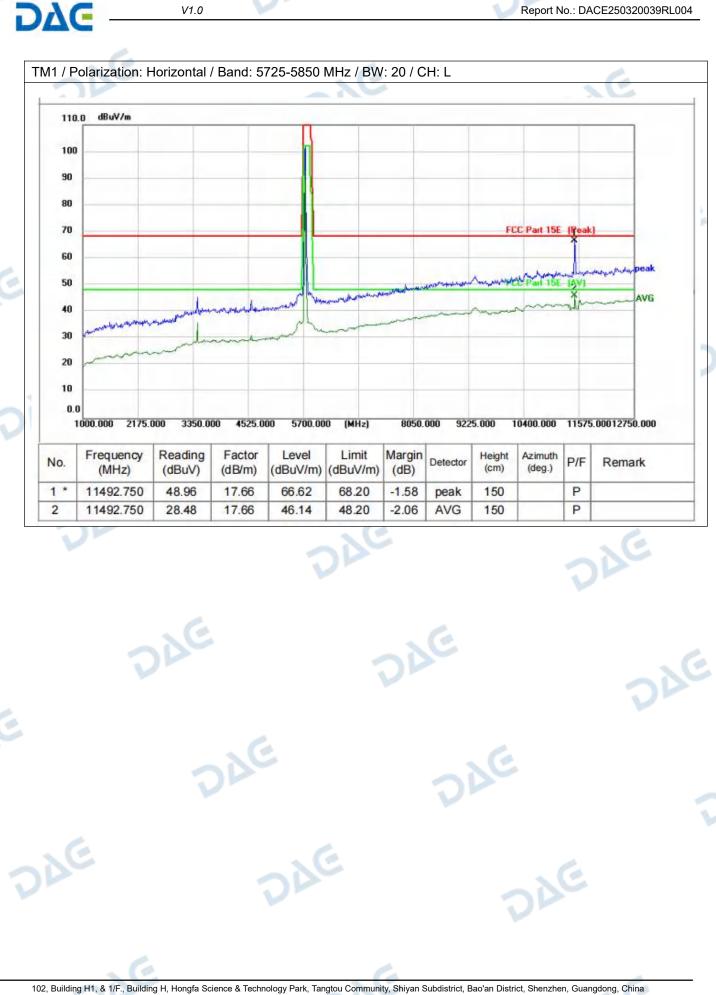
DAC

Report No.: DACE250320039RL004

TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H dBu∀/m 110.0 100 90 80 70 FCC Part 15E (Peak) 60 50 AVG 40 30 20 10 0.0 1000.000 2175.000 3350.000 4525.000 5700.000 (MHz) 8050.000 9225.000 10400.000 11575.00012750.000 Level Frequency Reading Factor Margin Limit Height Azimuth Detector P/F Remark No. (deg.) (dBuV) (dB) (cm) (MHz) (dB/m)(dBuV/m) (dBuV/m) 1 * AVG 10458.750 29.47 16.38 45.85 48.20 -2.35 150 P 2 10482.250 48.25 16.46 64.71 68.20 -3.49 150 P peak 1 DAE DAG NE -DAG 24C DAG DAG DAG 102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China Web: http://www.dace-lab.com Tel: +86-755-23010613 E-mail: service@dace-lab.com Page 45 of 177

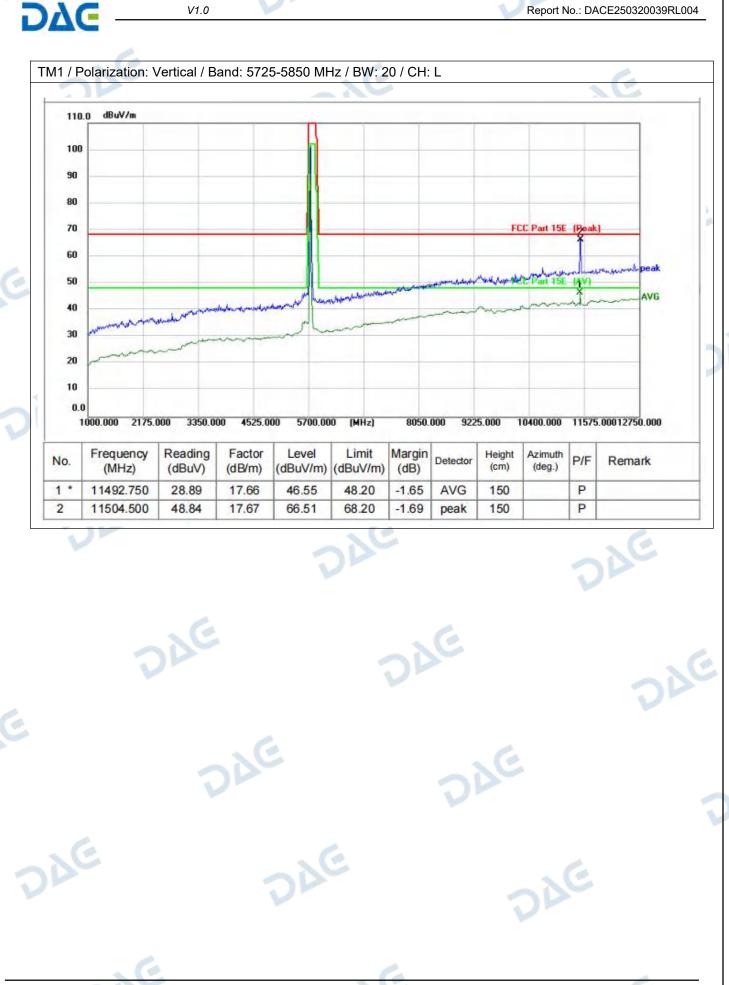
DAC V1.0 Report No.: DACE250320039RL004 TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H 110.0 dBuV/m 100 90 80 70 FCC Part 15E (Peak) 60 50 AVG 40 30 20 10 0.0 1000.000 2175.000 3350.000 4525.000 5700.000 (MHz) 8050.000 9225.000 10400.000 11575.00012750.000 Frequency Reading Factor Level Limit Margin Height Azimuth P/F No. Detector Remark (MHz) (dBuV) (dB/m)(dBuV/m) (dBuV/m) (dB) (cm) (deg.) 1 10482.250 50.62 16.46 67.08 68.20 P -1.12 peak 150 P 2 * 10482.250 30.84 47.30 -0.90 150 16.46 48.20 AVG 1 DAE DAG NE 4 DAG 2AC DAG DAG DAG

Report No.: DACE250320039RL004

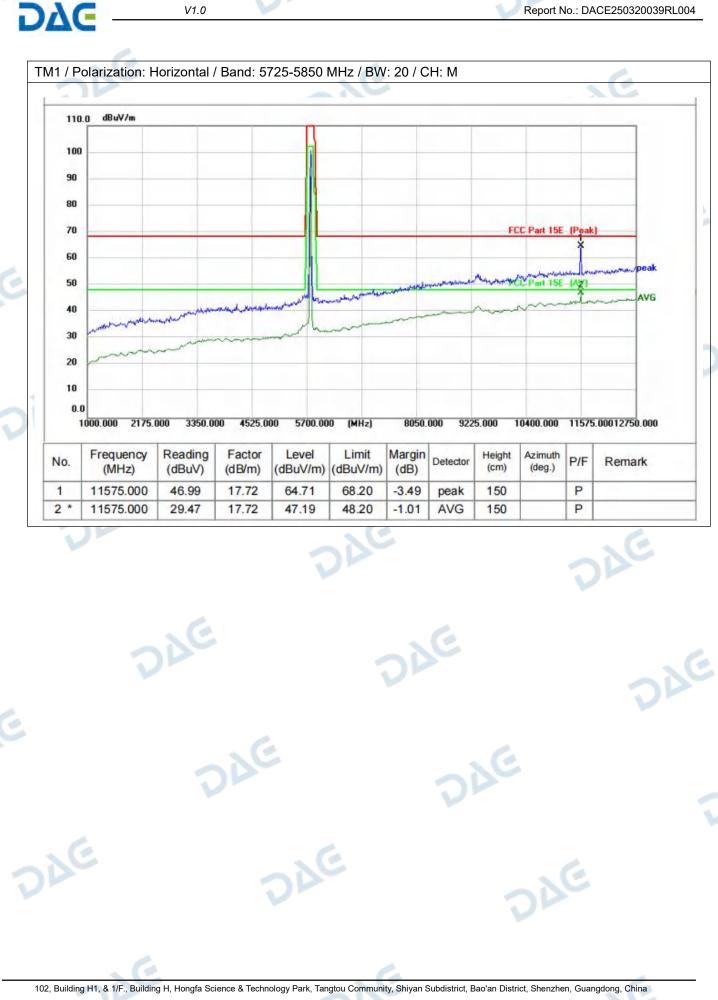


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Report No.: DACE250320039RL004



Report No.: DACE250320039RL004

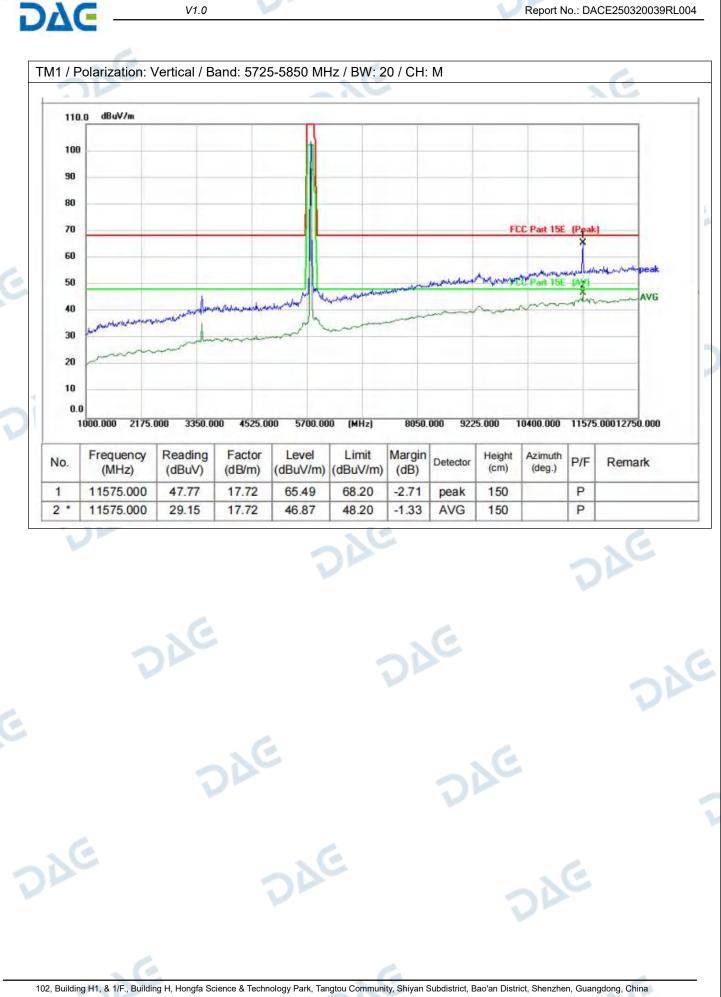


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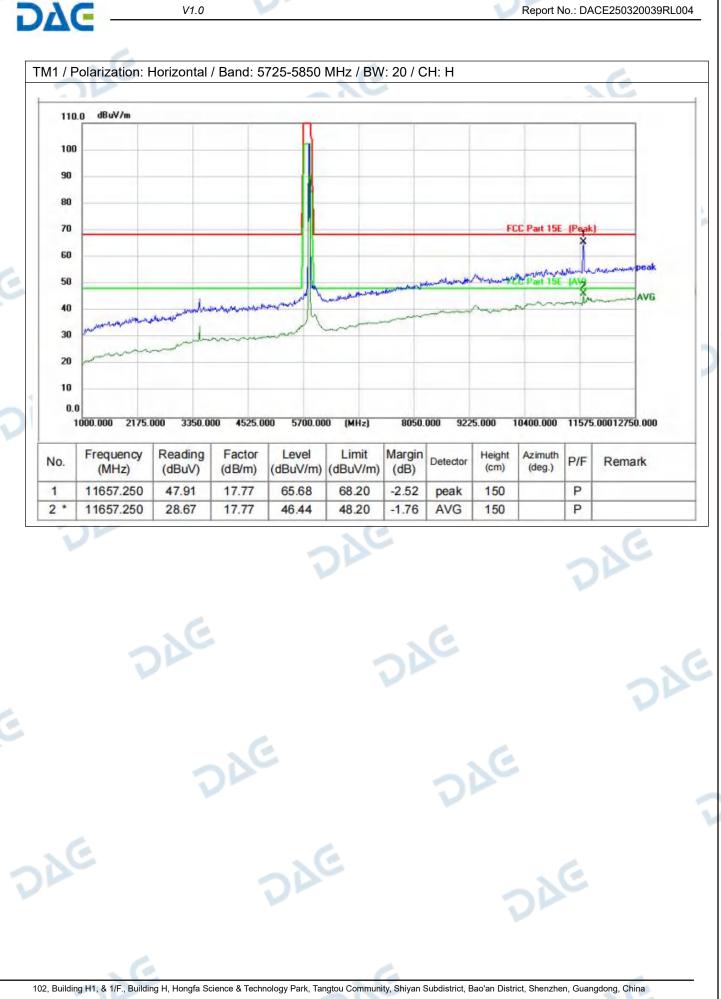
Report No.: DACE250320039RL004



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Report No.: DACE250320039RL004

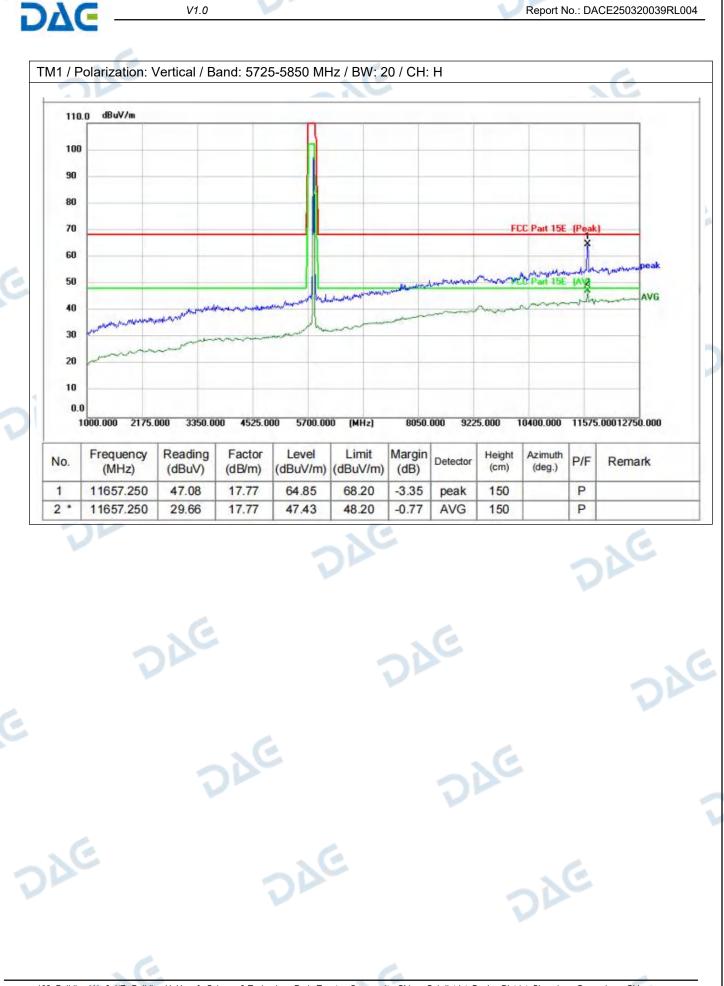


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Report No.: DACE250320039RL004



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Please refer to external photos file and internal photos file

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Appendix--5.2G_WIFI

ODE

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Page 53 of 177

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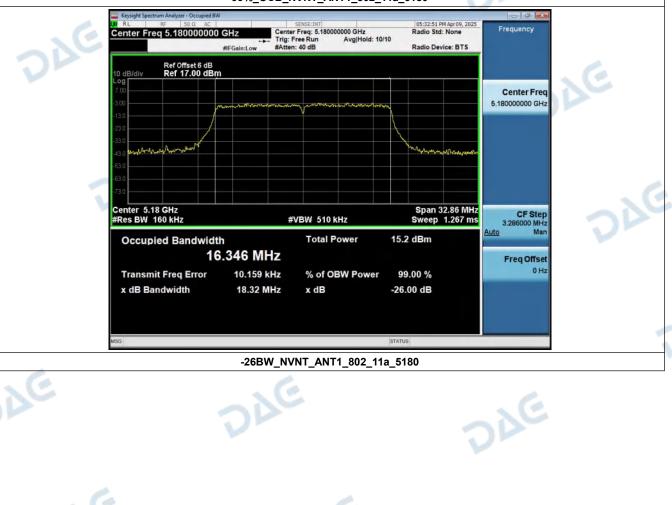
HT250320014--Sk2--5.2G--FCC FCC_5.2G_WIFI (Part15.407) Test Data

1. -26dB and 99% Emission Bandwidth

V1.0

DAG

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	18.40	16.35
NVNT	ANT1	802.11a	5200.00	18.41	16.34
NVNT	ANT1	802.11a	5240.00	18.44	16.35
NVNT	ANT1	802.11n(HT20)	5180.00	19.49	17.57
NVNT	ANT1	802.11n(HT20)	5200.00	19.34	17.56
NVNT	ANT1	802.11n(HT20)	5240.00	19.42	17.57
NVNT	ANT1	802.11ac(VHT20)	5180.00	19.48	17.57
NVNT	ANT1	802.11ac(VHT20)	5200.00	19.35	17.56
NVNT	ANT1	802.11ac(VHT20)	5240.00	19.39	17.57
NVNT	ANT1	802.11n(HT40)	5190.00	40.98	36.07
NVNT	ANT1	802.11n(HT40)	5230.00	41.46	36.03
NVNT	ANT1	802.11ac(VHT40)	5190.00	41.65	36.05
NVNT	ANT1	802.11ac(VHT40)	5230.00	41.14	36.00
NVNT	ANT1	802.11ac(VHT80)	5210.00	80.70	74.68



99%_OCB_NVNT_ANT1_802_11a_5180

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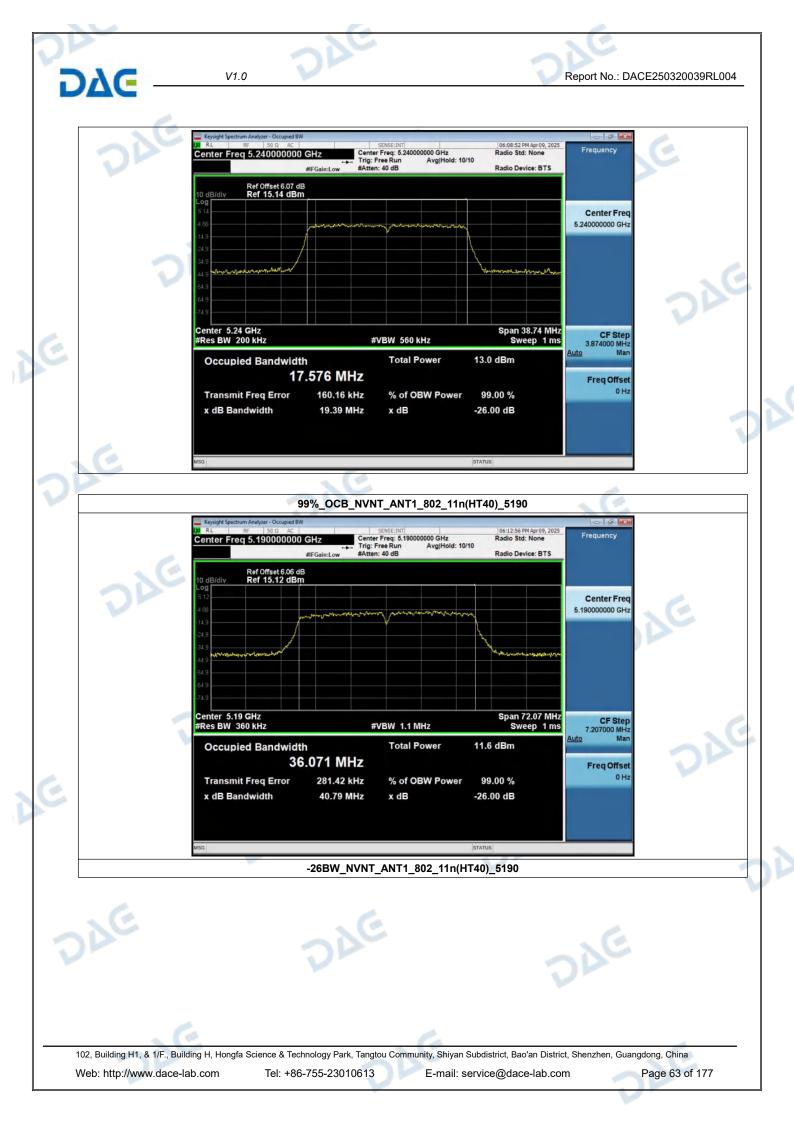




















DAG	Keysight Spectrum Analyzer - Occupied BW R RL RF 50 Q AC Center Freq 5.210000000 GHz	SENSE-INTI Center Freq: 5.21000000 GHz Trig: Free Run Avg Hold: #Atten: 40 dB	I 06:29:54 PM Apr09, 2025 Radio Std: None Radio Device: BTS	nter Freq 00000 GHz
E	Transmit Freq Error 3	#VBW 2.4 MHz Total Power 70 MHz 191.03 kHz % of OBW Power 80.70 MHz x dB	13.0 dBm	CF Step 45000 MHz Man eq Offset 0 Hz
o le Di		Je DJe		E

Report No.: DACE250320039RL004

Duty Cycle 2

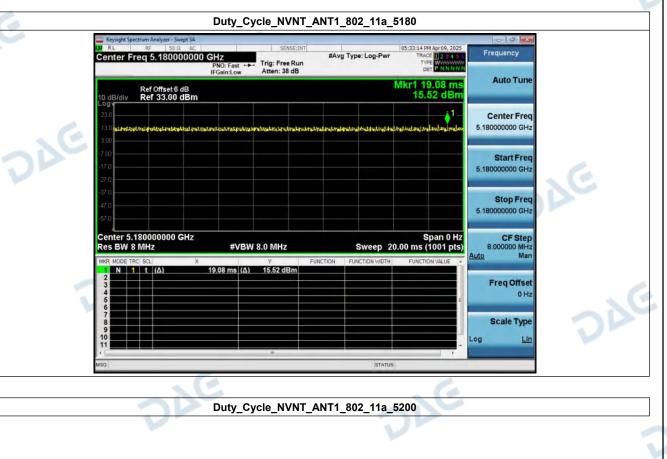
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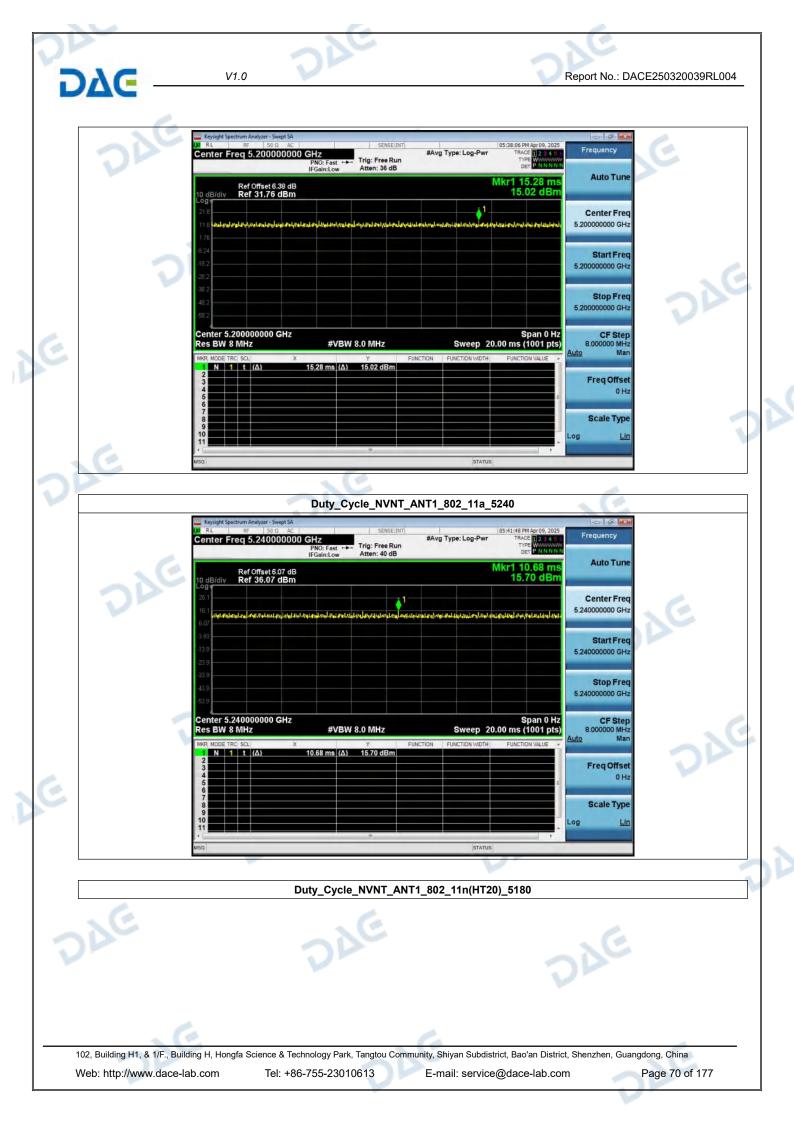
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	100	0.00
NVNT	ANT1	802.11a	5200.00	100	0.00
NVNT	ANT1	802.11a	5240.00	100	0.00
NVNT	ANT1	802.11n(HT20)	5180.00	100	0.00
NVNT	ANT1	802.11n(HT20)	5200.00	100	0.00
NVNT	ANT1	802.11n(HT20)	5240.00	100	0.00
NVNT	ANT1	802.11ac(VHT20)	5180.00	100	0.00
NVNT	ANT1	802.11ac(VHT20)	5200.00	100	0.00
NVNT	ANT1	802.11ac(VHT20)	5240.00	100	0.00
NVNT	ANT1	802.11n(HT40)	5190.00	100	0.00
NVNT	ANT1	802.11n(HT40)	5230.00	100	0.00
NVNT	ANT1	802.11ac(VHT40)	5190.00	100	0.00
NVNT	ANT1	802.11ac(VHT40)	5230.00	100	0.00
NVNT	ANT1	802.11ac(VHT80)	5210.00	100	0.00

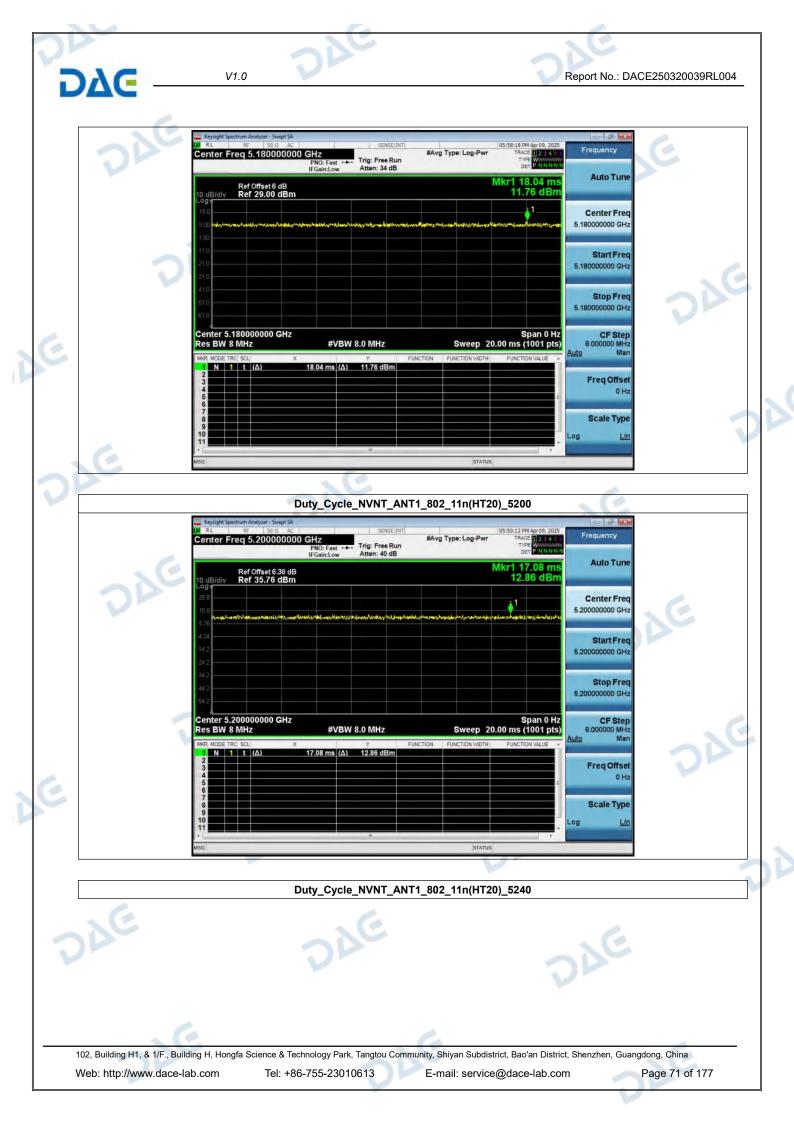


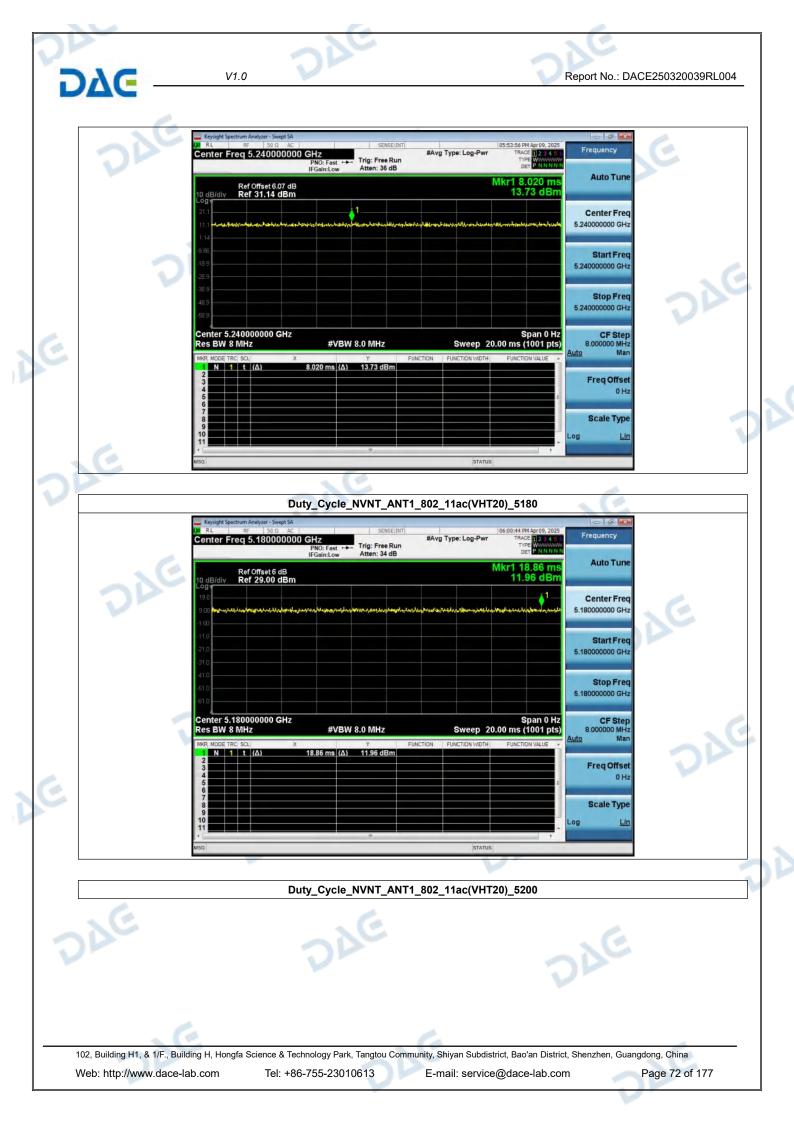
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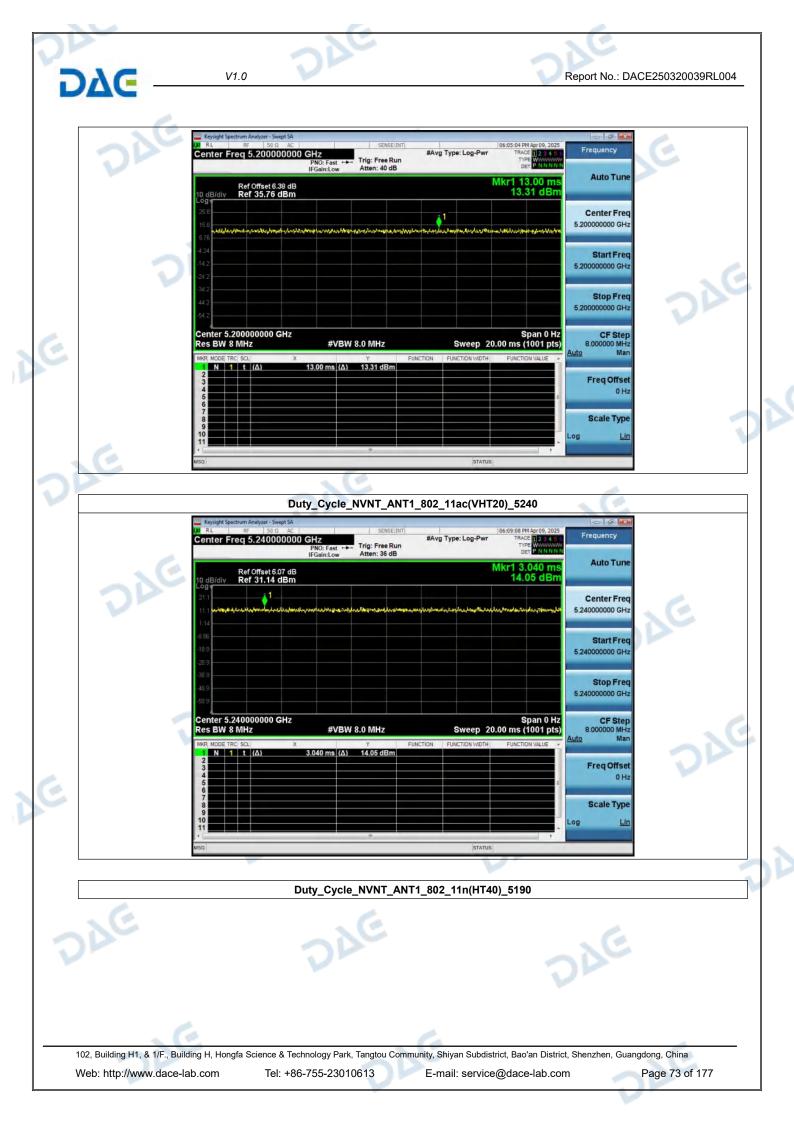
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DAE

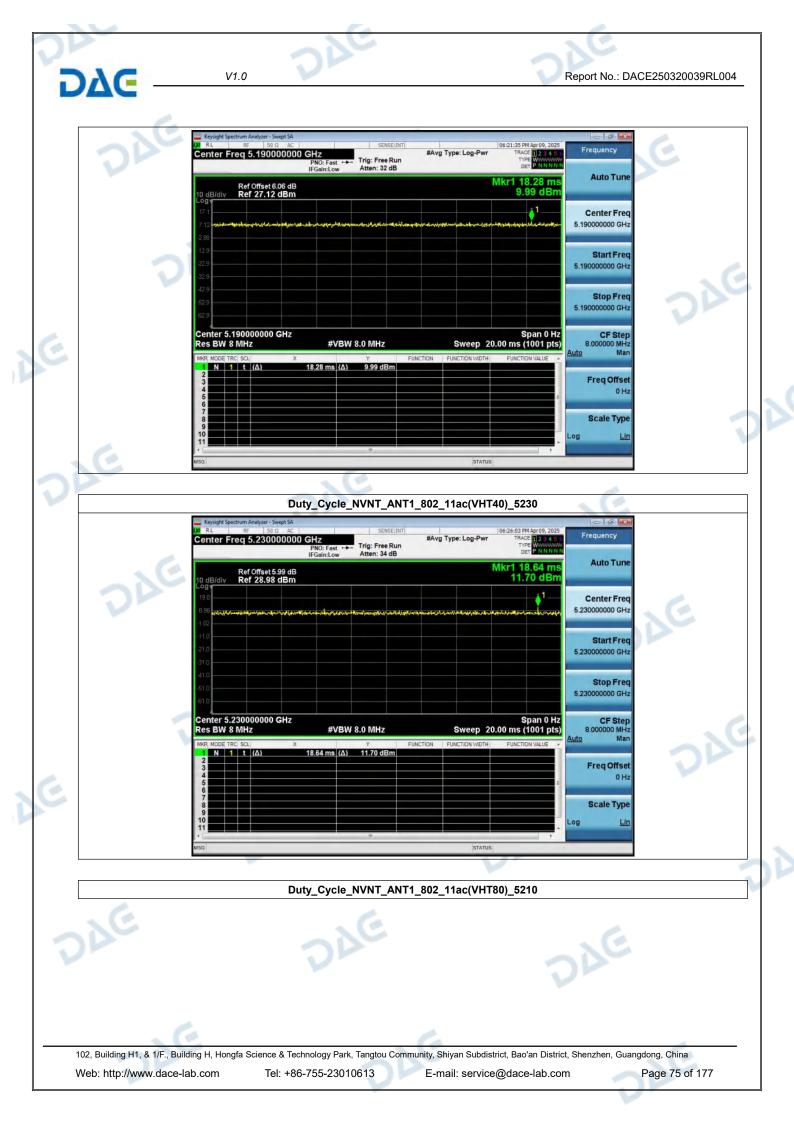












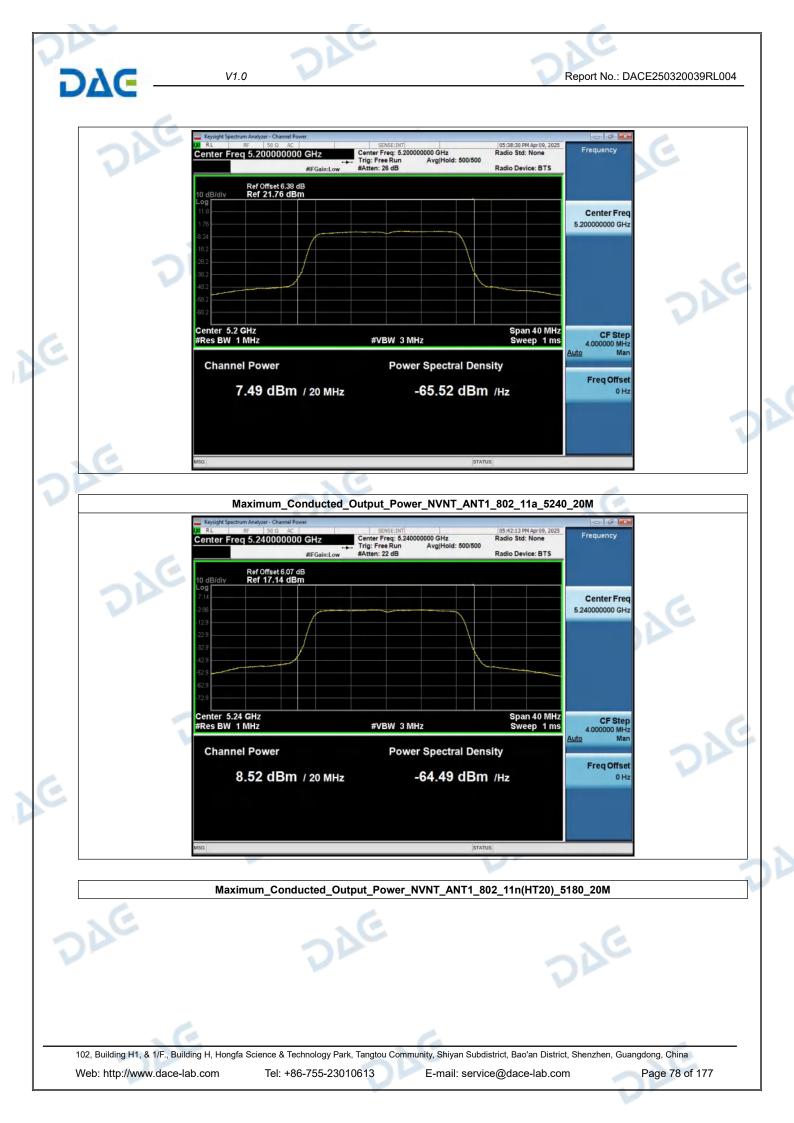
DVG -	V1.0		Report No.: DACE250320039RL	.004
DAC	Reysight Spectrum Analyzer - Swept SA RL RF 50 Q AC Center Freq 5.210000000 GHz PNO: Fast IFGaintLow If Gel Offset 6.29 dB Ref 29.58 dBm	#Avg Type: Log-Pwr T Trig: Free Run Atten: 34 dB	2 PM Apro9, 2025 RACE 2 1 3 3 5 TYPE 2 1 3 5 DET P NINN N 8,460 ms Auto Tune	
	10 dB/div Ref 29.58 dBm	ราช เป็น อนุสมสุขารีการใน และสุขารีการการการการการการการการการการการการการก	Center Freq 5.210000000 GHz	
0	-10.4 -20.4 		Start Freq 5.21000000 GHz Stop Freq 5.210000000 GHz	
E	Center 5.210000000 GHz Res BW 8 MHz #VB	W 8.0 MHz Sweep 20.00 m	Span 0 Hz s (1001 pts) 8.000000 MHz	
	MMR MODE TRC: SCLi X 1 N 1 t (Δ) 8.460 ms (Δ 2 3 - - - - 3 - - - - - 5 - - - - - 6 - - - - - -	Y FUNCTION FUNCTION WIDTH FUN	CTION VALUE F Freq Offset 0 Hz	
E	7 9 10 11	π	Scale Type	
DAG	ASG	STATUS	.e	

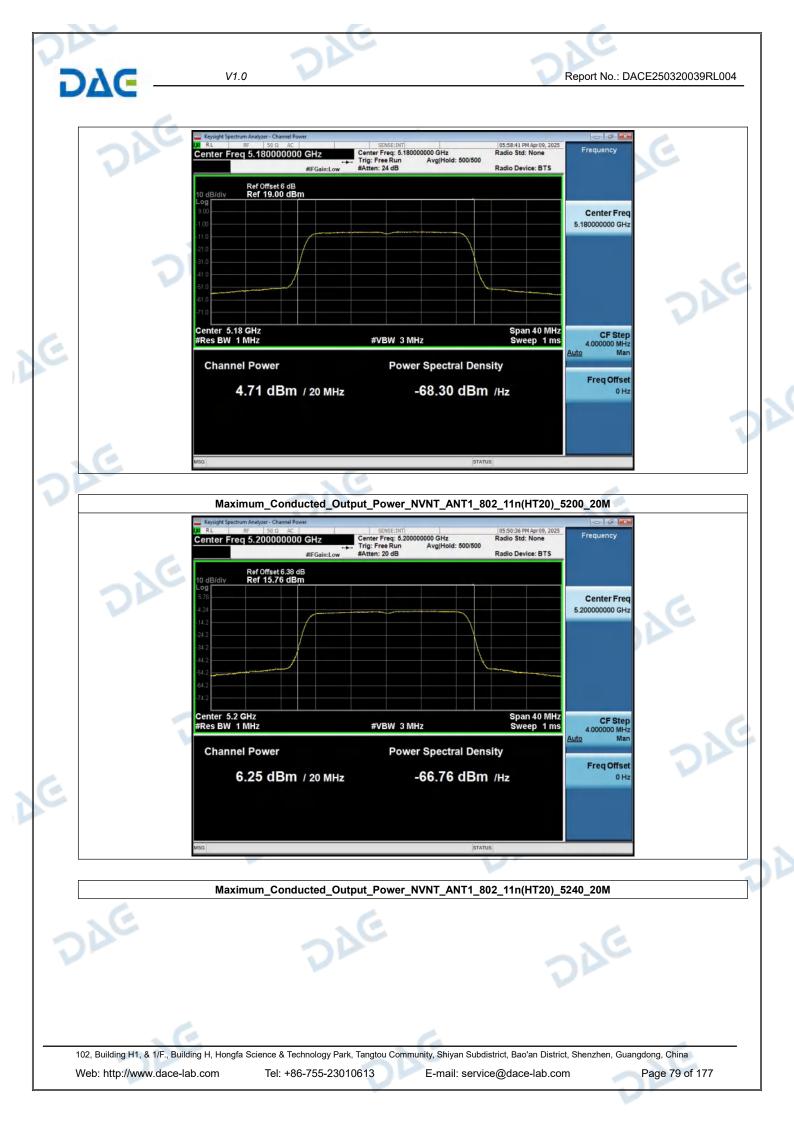
DAC

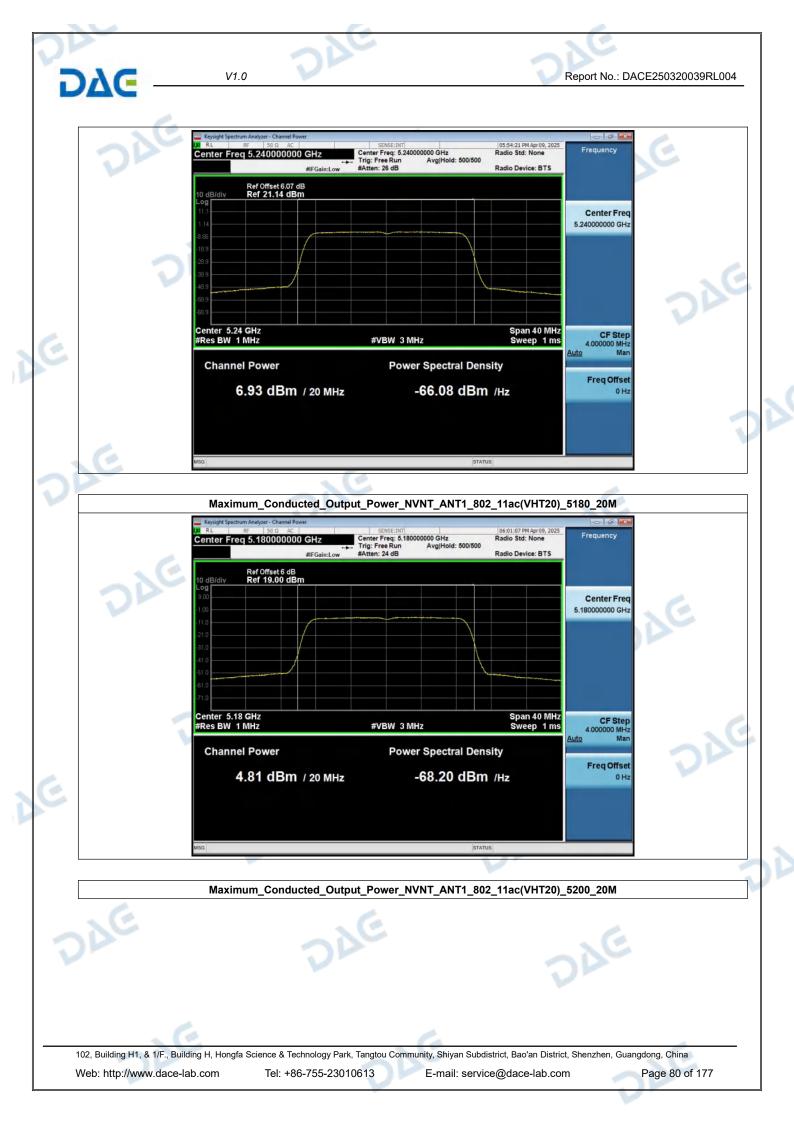
Conducted Duty Total Frequency Condition Antenna Modulation limit(dBm) Result factor(dB) Power(dBm) (MHz) Power(dBm) NVNT ANT1 802.11a 5180.00 8 4 3 0.00 8.43 Pass 24 NVNT ANT1 802.11a 5200.00 7.49 0.00 7.49 24 Pass NVNT ANT1 802.11a 5240.00 8.52 0.00 8.52 24 Pass NVNT ANT1 802.11n(HT20) 5180.00 4.71 0.00 4.71 24 Pass NVNT ANT1 802.11n(HT20) 5200.00 6.25 0.00 6.25 24 Pass **NVNT** ANT1 802.11n(HT20) 5240.00 6.93 0.00 6.93 24 Pass NVNT 4.81 4.81 ANT1 802.11ac(VHT20) 5180.00 0.00 24 Pass NVNT ANT1 802.11ac(VHT20) 5200.00 6.82 0.00 6.82 24 Pass NVNT ANT1 802.11ac(VHT20) 7.06 0.00 7.06 5240.00 24 Pass NVNT 0.00 ANT1 802.11n(HT40) 5190.00 6.22 6.22 24 Pass NVNT ANT1 802.11n(HT40) 5230.00 6.18 0.00 6.18 24 Pass NVNT ANT1 802.11ac(VHT40) 5190.00 6.35 0.00 6.35 24 Pass NVNT ANT1 802.11ac(VHT40) 5230.00 5.94 0.00 5.94 24 Pass **NVNT** ANT1 802.11ac(VHT80) 5210.00 5.59 0.00 5.59 24 Pass Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5180_20M 05:33:38 PM Apr 09, 2025 Radio Std: None Center Freq: 5.180000000 GHz Trig: Free Run Avg|Ho #Atten: 22 dB Frequency Center Freq 5.180000000 GHz d: 500/500 Radio Device: BTS #IFGain:Low

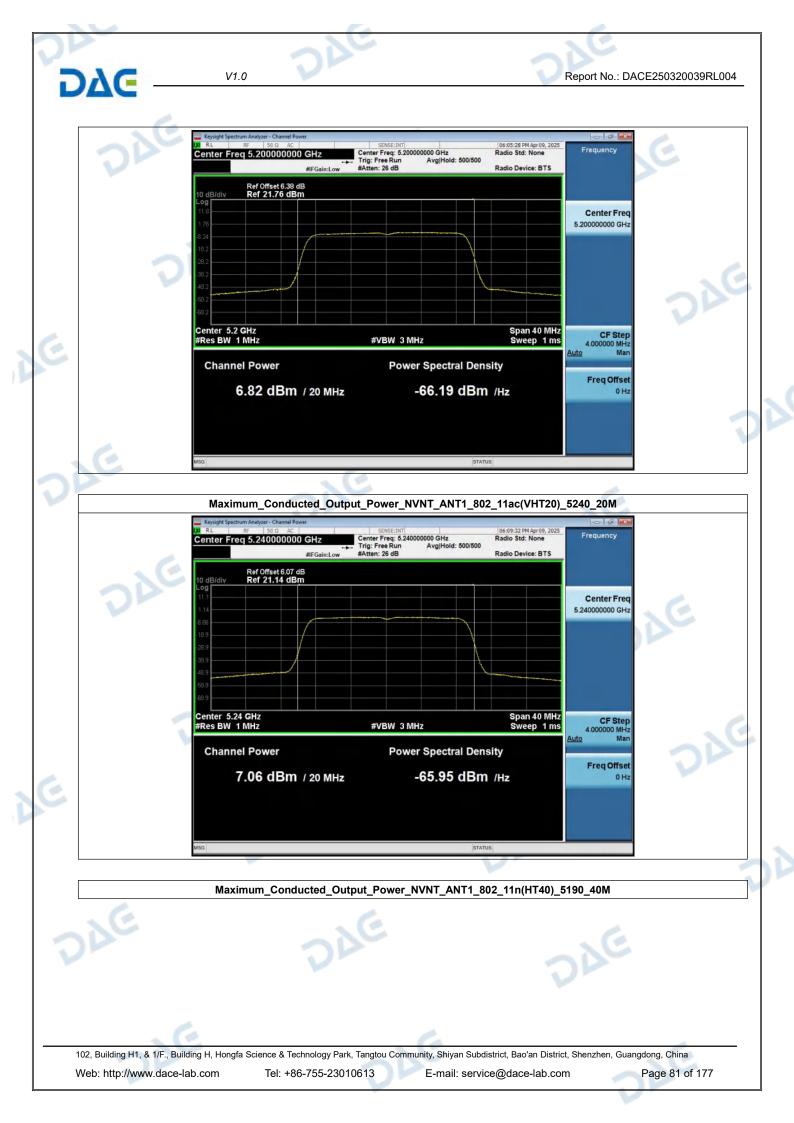


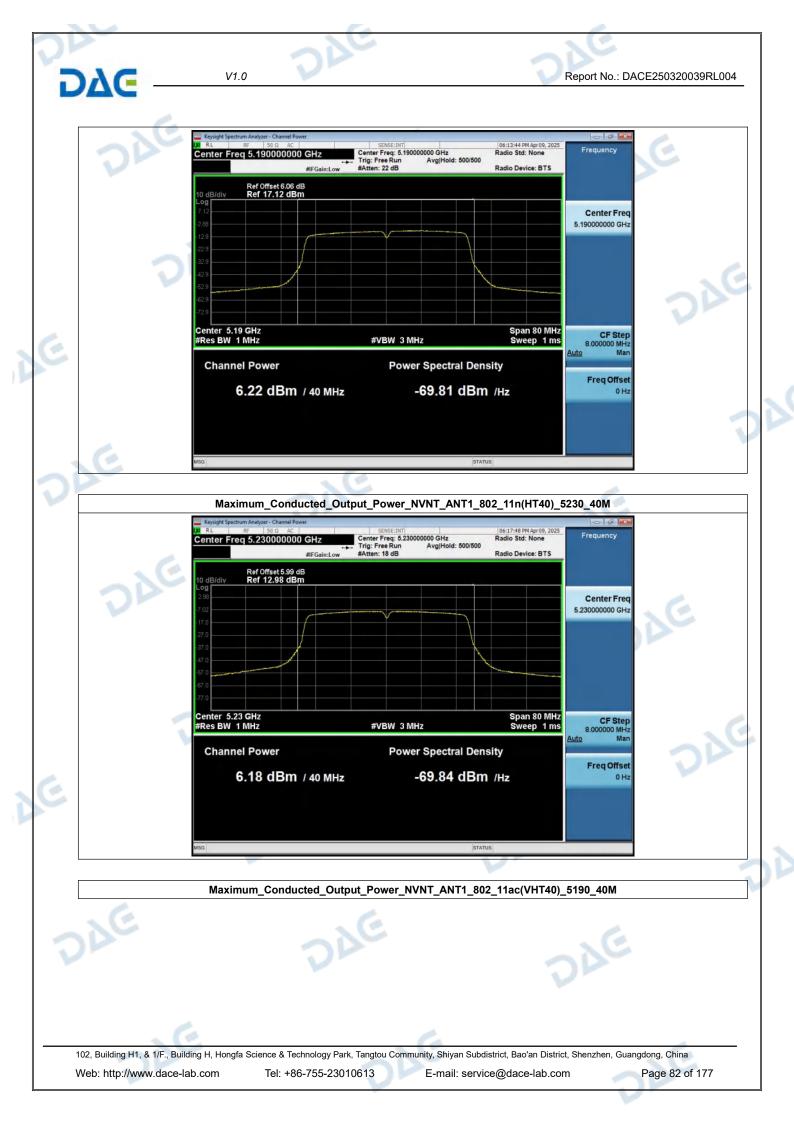
3. Maximum Conducted Output Power

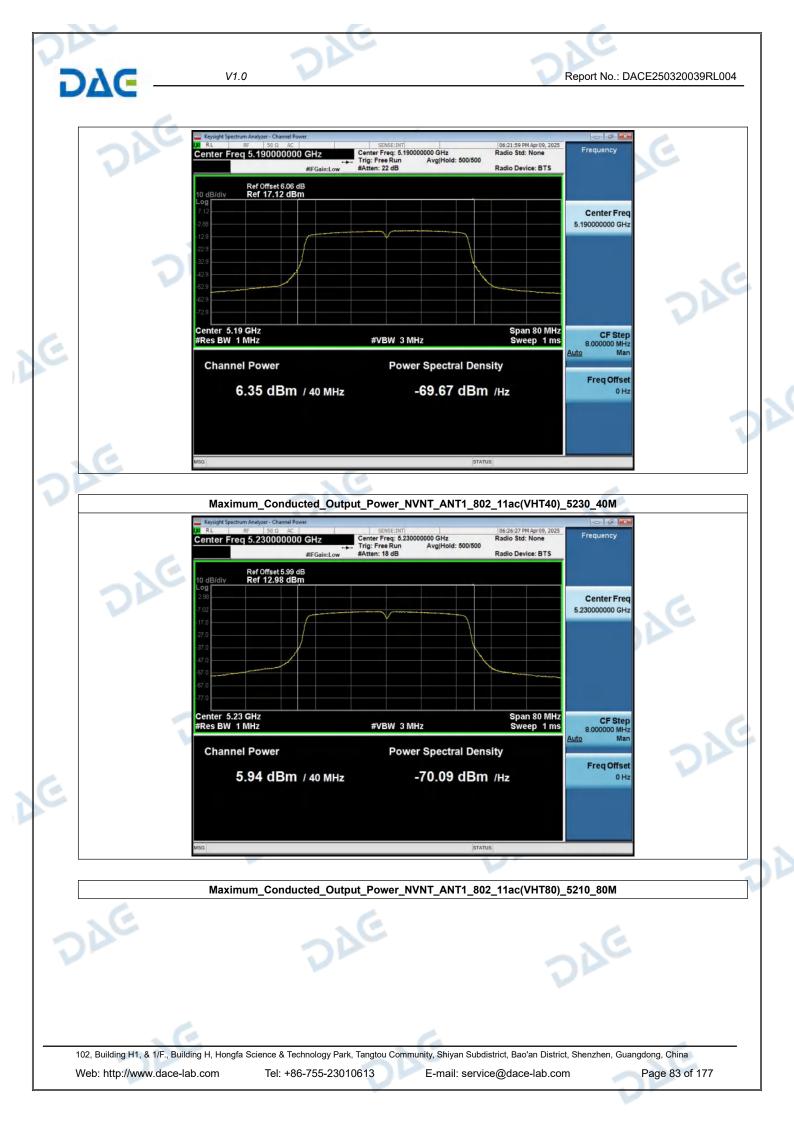












DVC DVC	#IFGain:Low Ref Offset 6.29 dB 10 dB/dly Ref 9.58 dBm Log	SENSE:DNT Center Freq: 5.21000000 GHz Trig: Free Run Avg Hold: 50 #Atten: 14 dB	06:30:36 PM Apr 09, 2025 Radio Std: None Freq	No.: DACE250320039RL004	
Ð	0.42 10.4 -0.4	#VBW 3 MHz	5.2100 Span 120 MHz	CF Step	
E	Channel Power	Power Spectral	Auto	00000 MHz Man	
	5.59 dBm / 80 мнz	-73.44 d	Bm /Hz	e q Offset 0 Hz	
					1
1C	MSG		STATUS		
	240				

Report No.: DACE250320039RL004

4. Power Spectral Density

DVC

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Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	-5.29	0.00	-5.29	11	Pass
NVNT	ANT1	802.11a	5200.00	-4.90	0.00	-4.90	11	Pass
NVNT	ANT1	802.11a	5240.00	-5.00	0.00	-5.00	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	-8.97	0.00	-8.97	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-7.03	0.00	-7.03	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-6.80	0.00	-6.80	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	-8.90	0.00	-8.90	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	-6.64	0.00	-6.64	11 😼	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	-6.54	0.00	-6.54	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-9.99	0.00	-9.99	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-10.19	0.00	-10.19	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-9.80	0.00	-9.80	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	-10.38	0.00	-10.38	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-13.29	0.00	-13.29	11	Pass

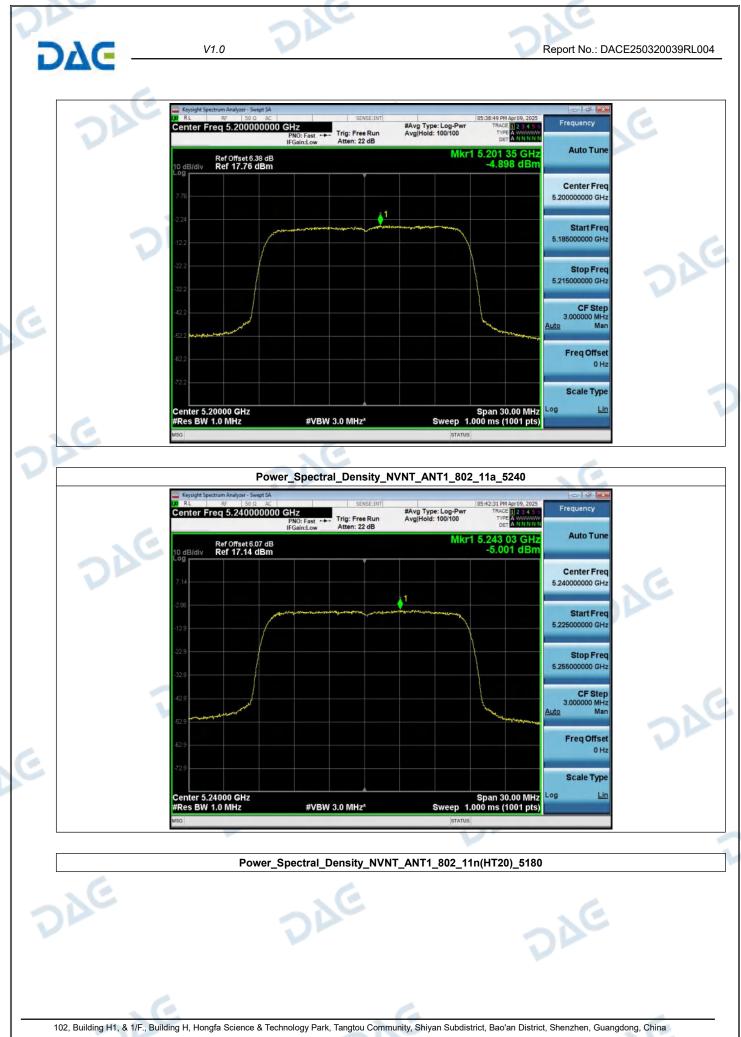


Power_Spectral_Density_NVNT_ANT1_802_11a_5200

DAG

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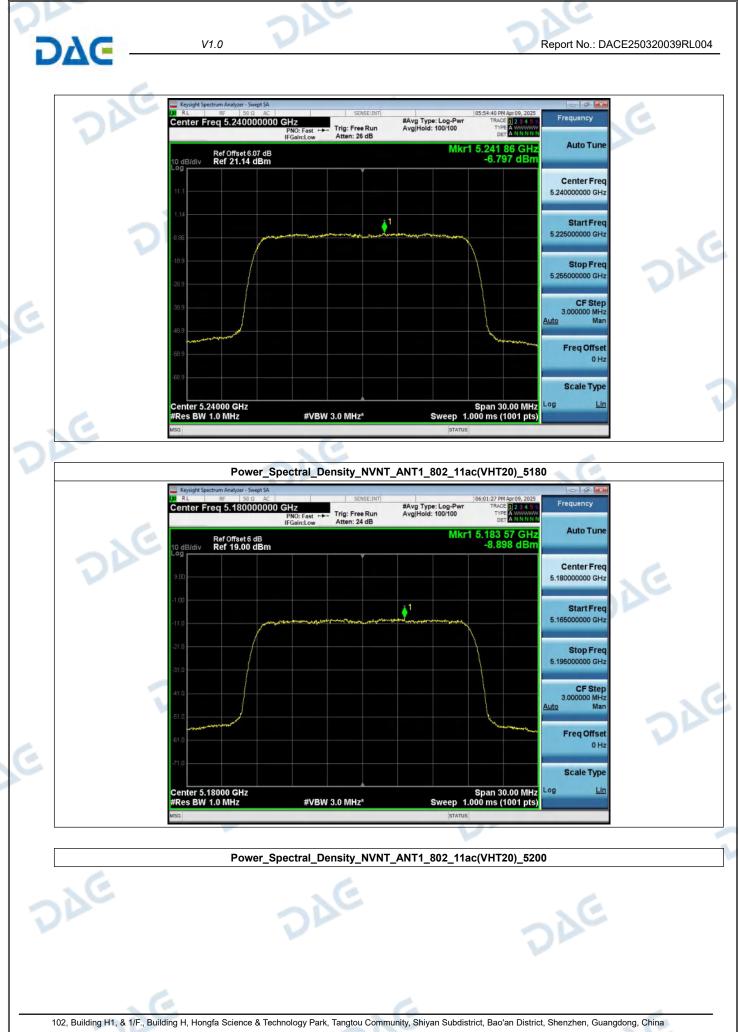
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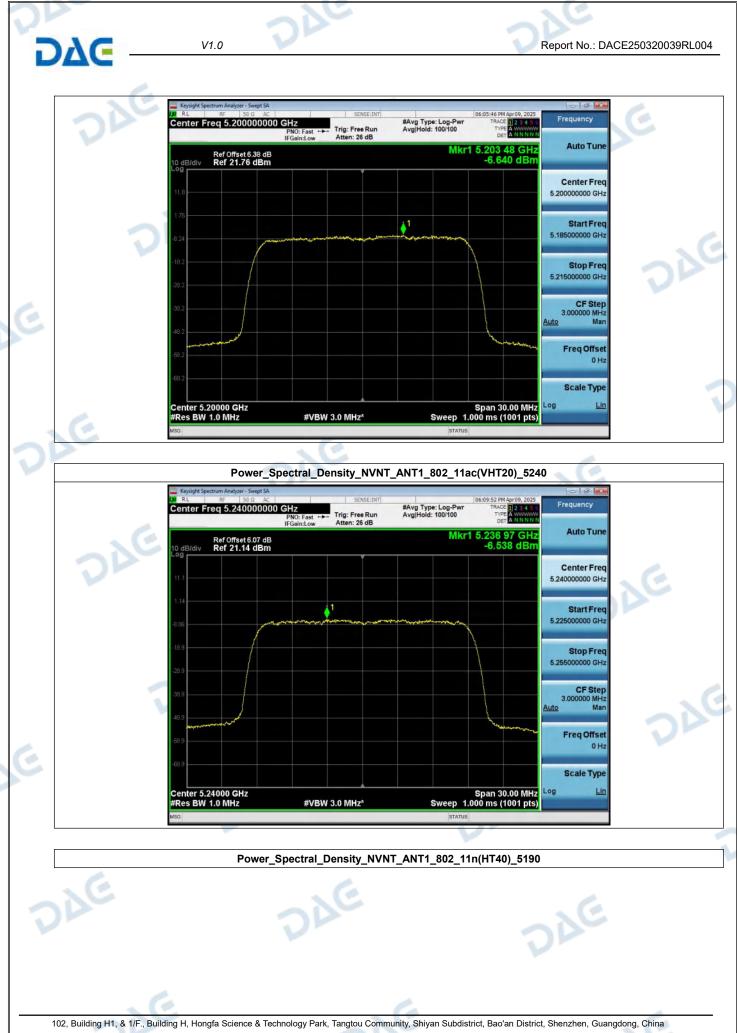




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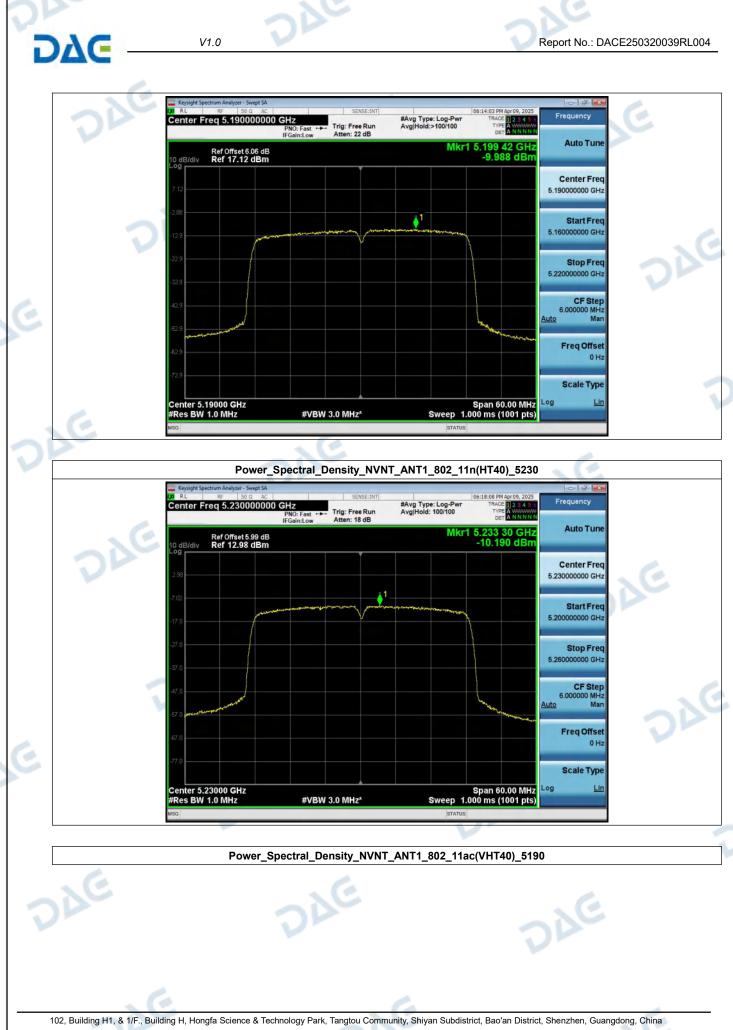
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Page 88 of 177



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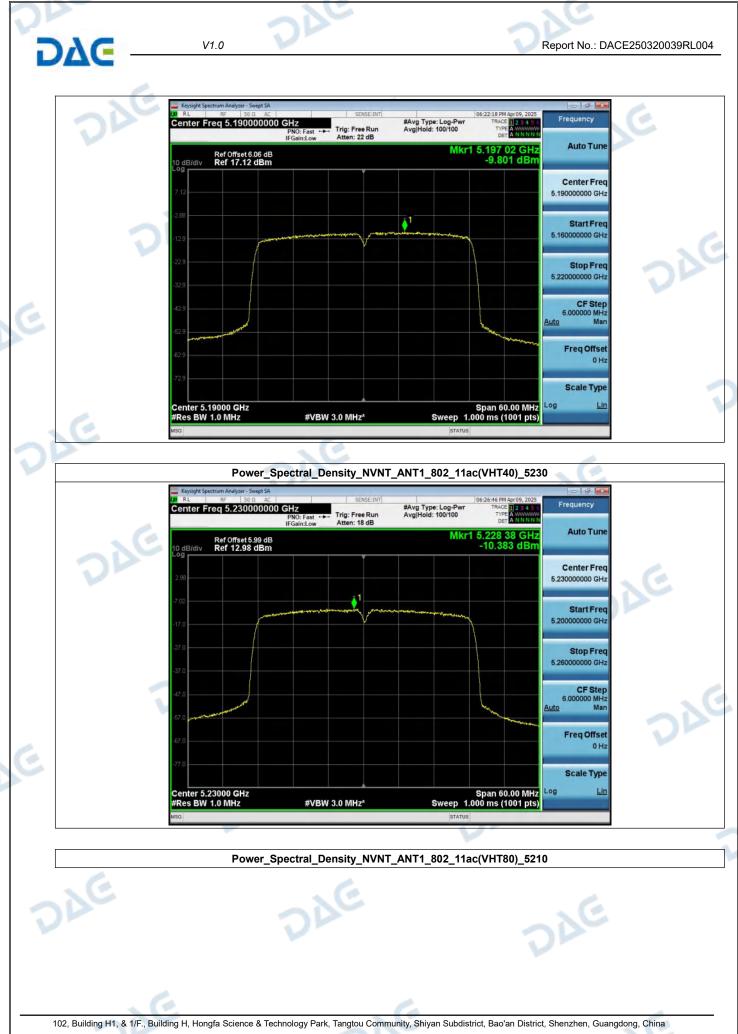
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Page 90 of 177



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	sight Spectrum Analyzer - Swept SA BF 50 Ω AC SENSE:INT Cer Freq 5.210000000 GHz PN0: Fast ↔→ IFGain:Low Ref Offset 6.29 dB Ref 9.58 dBm	Image: Second	uency uto Tune nter Freq 10000 GHz
-10.4 -20.4 -30.4 -40.4		5.15000 5.27000	tart Freq bootoo GHz top Freq bootoo GHz CF Step Man
-00 - 70 4 -90 4 -90 -90 -90 -90 -90 -90 -90 -90 -90 -90	er 5.21000 GHz BW 1.0 MHz #VBW 3.0 MHz*	Span 120.0 MHz Sweep 1.000 ms (1001 pts)	eq Offset 0 Hz ale Type Lin

D

Report No.: DACE250320039RL004

Bandedge 5

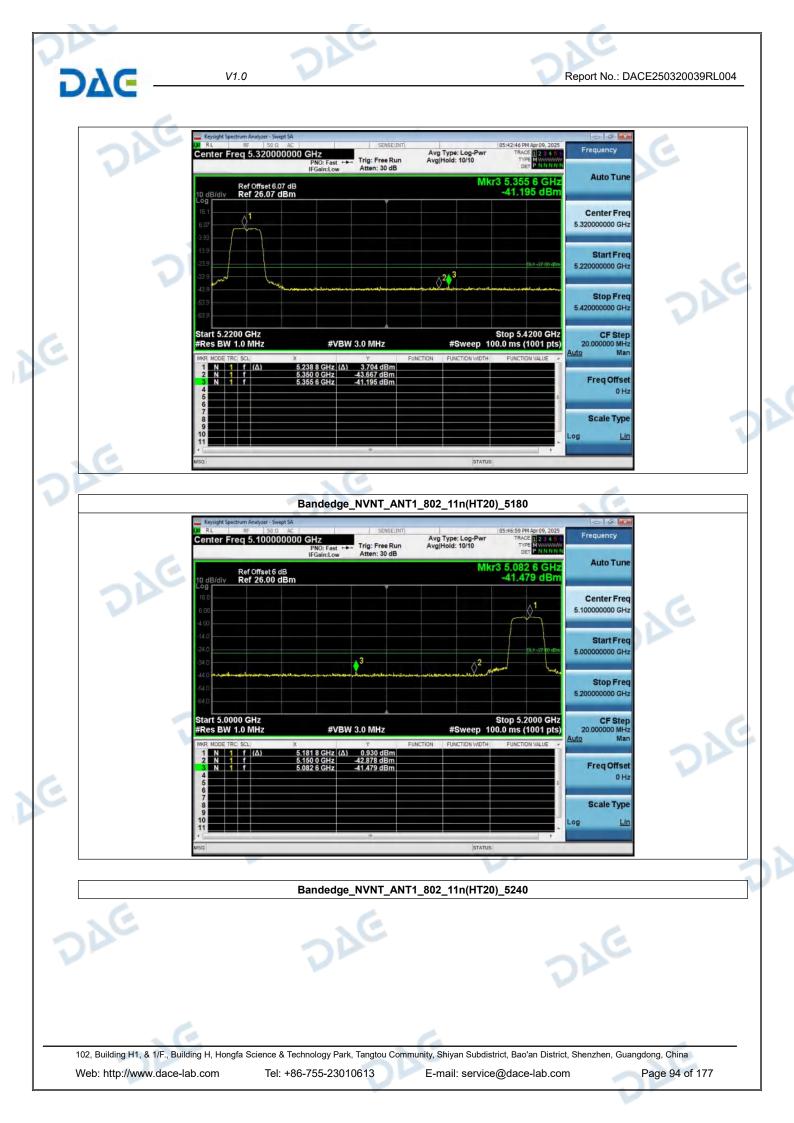
DAG

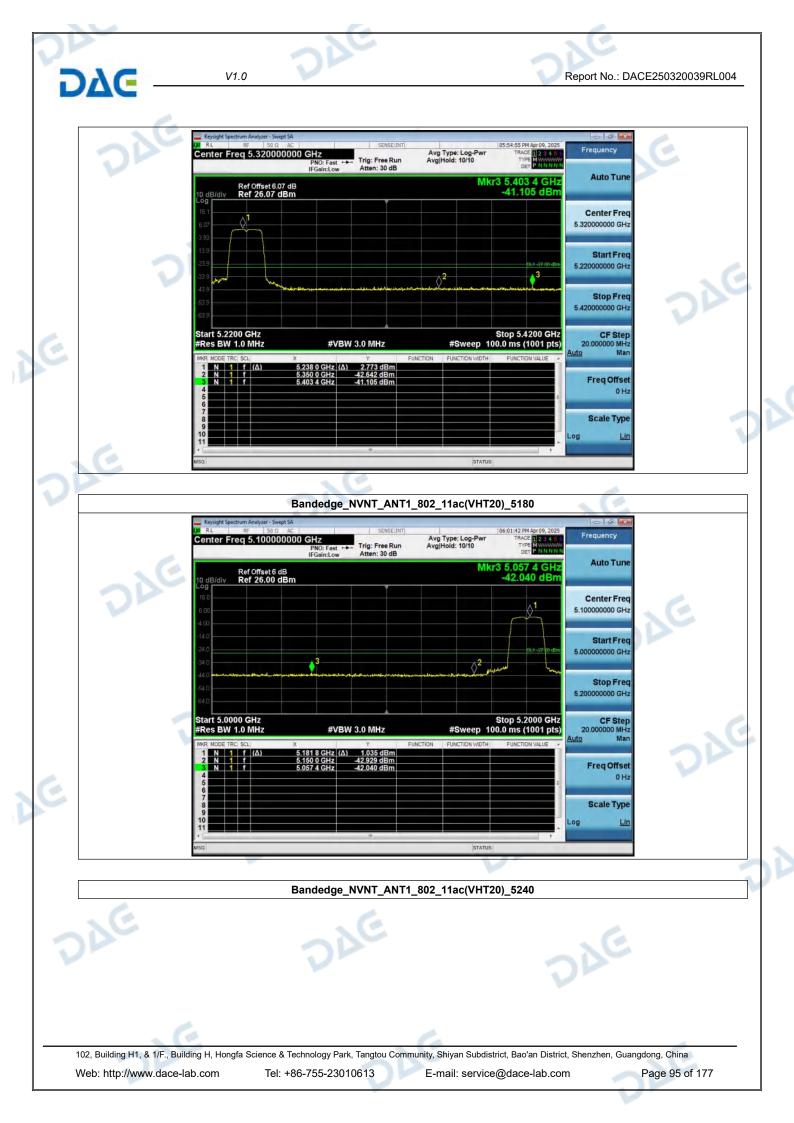
2

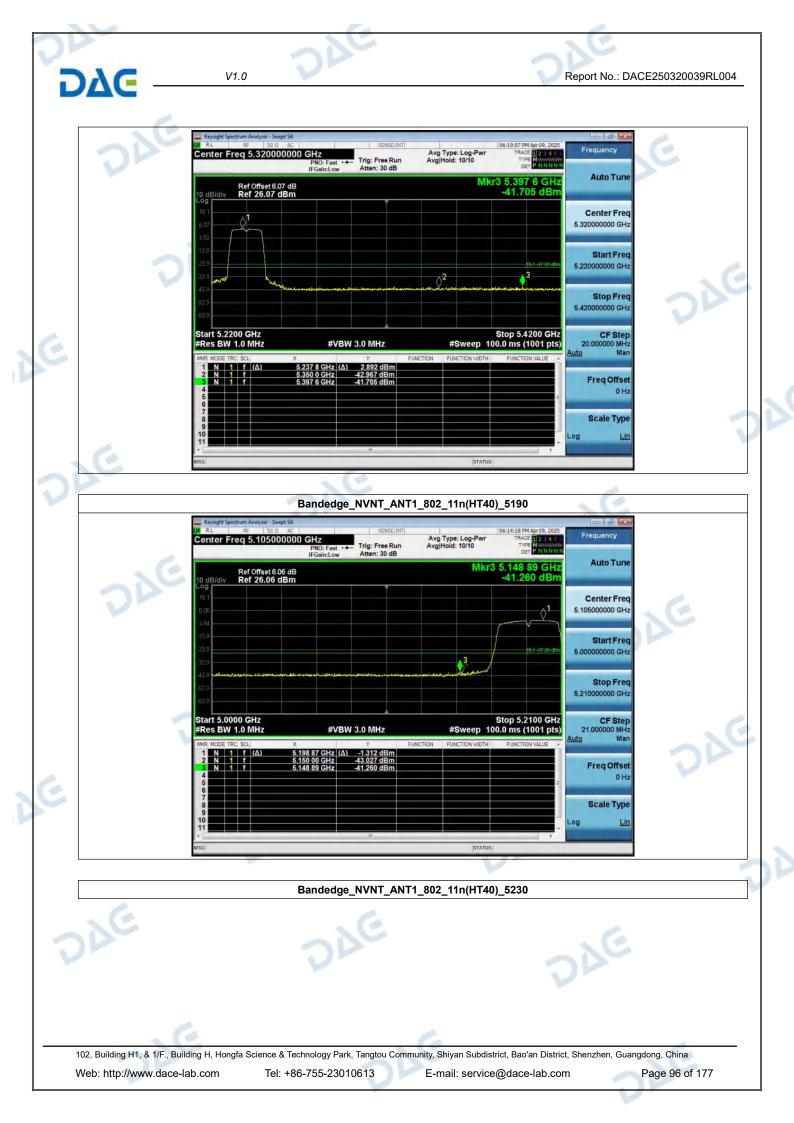
			TX Frequency	Max. Mark	Spurious		
Condition	Antenna	Modulation	(MHz)	Frequency(MHz)	level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	5003.60	-41.61	-27	Pass
NVNT	ANT1	802.11a	5240.00	5355.60	-41.20	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5082.60	-41.48	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5403.40	-41.11	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5057.40	-42.04	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5397.60	-41.71	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5148.89	-41.26	-27 🥏	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5396.48	-41.03	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5120.33	-41.43	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5372.12	-41.57	-27	Pass
NVNT	ANT1 🦪	802.11ac(VHT80)	5210.00	5029.82	-41.82	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5372.54	-41.15	-27	Pass



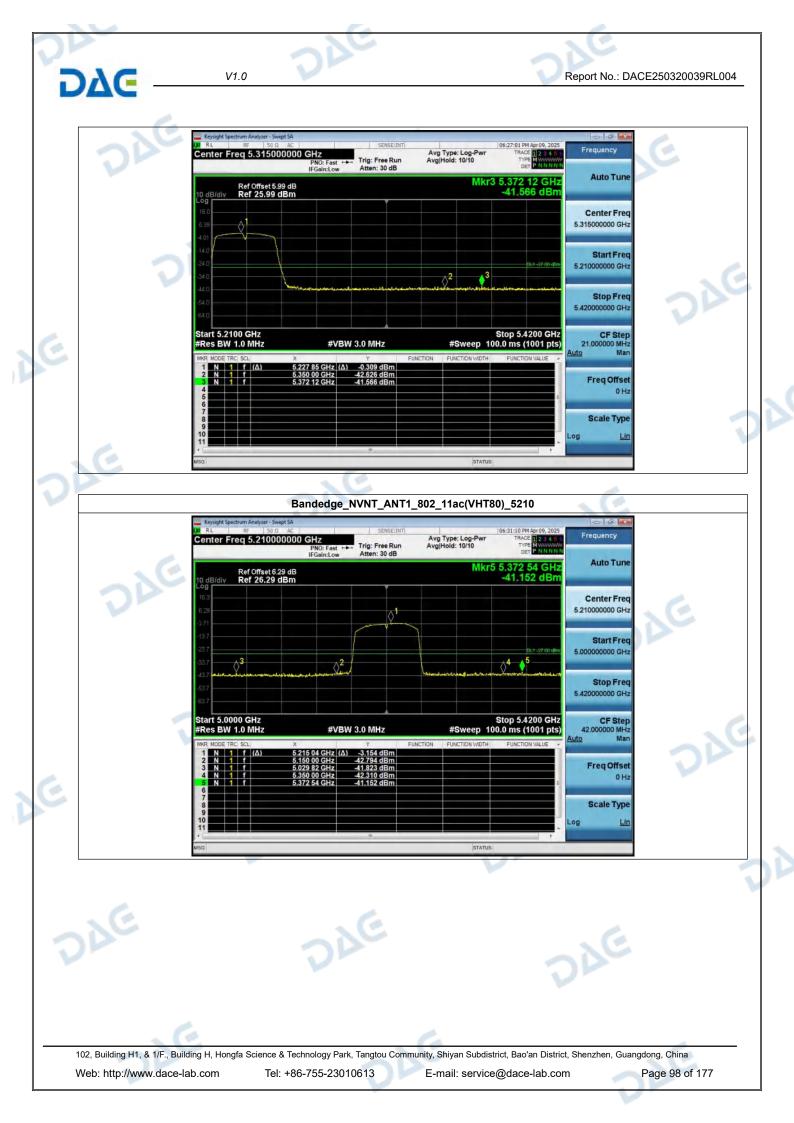
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23010613 Web: http://www.dace-lab.com E-mail: service@dace-lab.com











Report No.: DACE250320039RL004

6. Spurious Emission

DVC

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	25044.15	-37.91	-27	Pass
NVNT	ANT1	802.11a	5200.00	25044.15	-37.14	-27	Pass
NVNT	ANT1	802.11a	5240.00	24991.21	-37.86	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	25017.68	-37.99	-27	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	25097.09	-37.82	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	25017.68	-37.62	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	25044.15	-37.97	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	25123.56	-36.33	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	25070.62	-38.19	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	25070.62	-37.13	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	25044.15	-38.15	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	25044.15	-37.57	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	25044.15	-37.32	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	25044.15	-37.97	-27	Pass

e.



102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China Web: http://www.dace-lab.com Tel: +86-755-23010613 E-mail: service@dace-lab.com

