

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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TEST REPORT

Application No.: FCC ID: Applicant: Address of Applicant: Manufacturer: Address of Manufacturer: Factory: Address of Factory:	SHEM2106006531CR 2ADTD-CP04016405132 Hangzhou Hikvision Digital Technology Co., Ltd. No.555 Qianmo Road,Binjiang District Hangzhou 310052,China Hangzhou Hikvision Digital Technology Co., Ltd. No.555 Qianmo Road,Binjiang District Hangzhou 310052,China 1.Hangzhou Hikvision Technology Co., Ltd. 2.Hangzhou Hikvision Technology Co., Ltd. 3.Chongqing Hikvision Electronics Co.,Ltd. 1.No.700,Dongliu Road,Binjiang District,Hangzhou Ctiv, Zhoiiang 310052,China
	Ctiy,Zhejiang,310052,China 2.No.299,Qiushi Road,Tonglu Economic Development Zone,Tonglu County,Hangzhou,Zhejiang,310052,China. 3.No.118,Haikang Road,Area C,Jiangqiao Industrial Park,Dadukou District,Chongqing,401325,China
Equipment Under Test (EU)	Г):
EUT Name:	AX Hybrid
Model No.:	DS-PHA64-W4P2,DS-PHA64-W4P2UHK,DS-PHA64-W4P2CKV, DS-PHA64-W4P2UVS,DS-PHA64-W4P2KVO,DS-PHA64-W4P2HUN, DS-PHA64-W4M,DS-PHA64-W4MUHK,DS-PHA64-W4MCKV,DS-PHA64- W4MUVS,DS-PHA64-W4MKVO,DS-PHA64-W4MHUN¤
¤	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2021-06-24
Date of Test:	2021-06-26 to 2021-07-21
Date of Issue:	2021-07-22
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

parlan share

Parlam Zhan Laboratory Manager

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. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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	Revision Record			
Version	Description	Date	Remark	
00	Original	2021-07-22	1	

Authorized for issue by:		
	pichal Nil	
	Micheal Niu / Project Engineer	
	Parlam zhan	
	Parlam Zhan / Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
ltem	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matt	Radio Spectrum Matter Part				
ltem	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass	
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass	

Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DS-PHA64-W4P2, DS-PHA64-W4M was tested since their differences were the model number, trade name, material and appearance. DS-PHA64-W4P2 shell material is plastic and DS-PHA64-W4M shell material is metal.



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 100 ~ 240V, 50/60Hz, 2.8A Max
Test voltage:	AC 120V/60Hz
Antenna Gain:	3dBi(Provided by manufacturer)
Antenna Type:	Dipole Antenna
Channel Spacing:	5MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)
	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Data Rate:	802.11b:1/2/5.5./11Mbps
	802.11g:6/9/12/18/24/36/48/54Mbps
	802.11n:MCS0-MCS7
Number of Channels:	802.11b/g/n(HT20):11
	802.11n(HT40):7
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
	802.11n(HT40): 2422MHz to 2452MHz

4.2 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
Channel	Ant 1	Ant 1	Ant 1
1	Default	Default	Default
6	Default	Default	Default
11	Default	Default	Default
Channel	802.11n(HT40)		

	Ant 1
3	Default
6	Default
9	Default

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	HP	HP ProBook 440 G5	/
Notebook	Lenovo	ThinkPad L440	/
DC fan	TOP MOTOR	DF129225BL	/



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4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8		5.2dB (Below 1GHz)
0	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Dedicted Sourieue Emission Test	4.5dB (30MHz-1GHz)
9	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China. Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC (Designation Number: CN1172)

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600,C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Con	ducted Emission at Mains Terminals (150	kHz-30MHz)				
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/19/2020	10/18/2021
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/19/2020	10/18/2021
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	/	14	10/17/2020	10/16/2021
6	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF (Conducted Test					
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	12/02/2020	12/01/2021
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	09/25/2020	09/24/2021
5	Radio Communication Test Station	Anritsu	MT8000A	6262012849	N/A	N/A
6	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	N/A	N/A
7	Universal Radio Communication Tester	R&S	CMW500	159275	10/19/2020	10/18/2021
8	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
9	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
10	Switcher	CCSRF	FY562	KUS2001M001 -3	10/19/2020	10/18/2021
11	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
13	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
14	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
15	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
16	Conducted test cable	/	RF01-RF04	/	04/15/2021	04/14/2022
17	Software	BST	TST-PASS	N/A	N/A	N/A
18	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
19	Thermometer	Anymetre	TH603	CCS007	10/16/2020	10/15/2021
RF R	adiated Test					
1	Spectrum Analyzer	R&S	FSV40	101493	10/19/2020	10/18/2021
2	Signal Generator	Agilent	E8257C	MY43321570	10/19/2020	10/18/2021
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/22/2021	02/21/2022
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/23/2020	10/22/2021
11	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
12	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
13	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
14	Filter (5690 MHz \sim 5930 MHz $)$	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
15	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R



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16	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz \sim 1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz \sim 1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz \sim 1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
22	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
23	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
24	Software	Faratronic	EZ_EMC-v 3A1	N/A	N/A	N/A



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is Dipole antenna and no consideration of replacement. The best case gain of the antenna is 3dBi.

Antenna location: Refer to Appendix(internal photo)



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement	47 CFR Part 15, Subpart C 15.207
Test Method:	ANSI C63.10 (2013) Section 6.2
Limit:	

	Conducted	l limit(dBµV)		
Frequency of emission(MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		
*Decreases with the logarithm of the frequency.				



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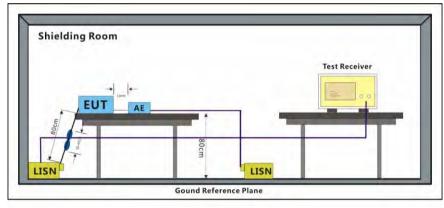


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7.1.1 E.U.T. Operation

-								
	Operating Environ	ment						
	Temperature:	24	°C	Humidity:	48	% RH	Atmospheric Pressure: 1010 n	nbar
	Test mode	type data wor 802	es. All da a rate @ st case c 11n(HT)	ta rates for eac 1Mbps is the v of IEEE 802.11	ch mo vorst o g; dat ᡚ 13.8	dulation ty case of IE a rate @ 6 5Mbps is t	transmitting mode with all modulatic ype have been tested and found the EE 802.11b; data rate @ 6Mbps is th 6.5Mbps is the worst case of IEEE the worst case of IEEE 802.11n(HT4 the report.	he

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 μ H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

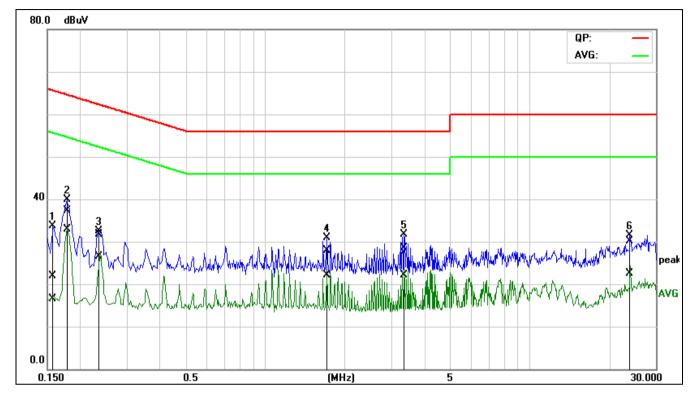


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Mode:a; Line:Live Line



No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1586	2.39	-3.00	19.46	21.85	16.46	65.54	55.54	-43.69	-39.08	Pass
2*	0.1795	17.80	13.47	19.46	37.26	32.93	64.51	54.51	-27.25	-21.58	Pass
3	0.2362	12.22	6.99	19.47	31.69	26.46	62.23	52.23	-30.54	-25.77	Pass
4	1.7127	8.42	2.47	19.58	28.00	22.05	56.00	46.00	-28.00	-23.95	Pass
5	3.3663	8.92	2.39	19.66	28.58	22.05	56.00	46.00	-27.42	-23.95	Pass
6	23.9068	9.69	2.07	20.34	30.03	22.41	60.00	50.00	-29.97	-27.59	Pass



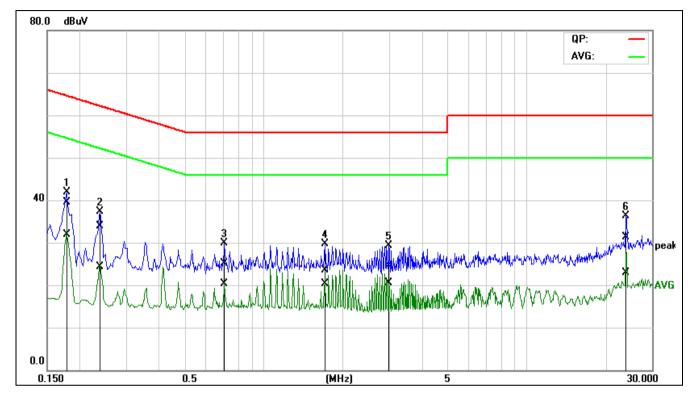
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Mode:a; Line:Neutral Line



No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1782	20.16	12.53	19.43	39.59	31.96	64.57	54.57	-24.98	-22.61	Pass
2	0.2373	14.39	4.92	19.44	33.83	24.36	62.19	52.19	-28.36	-27.83	Pass
3	0.7077	5.67	0.72	19.52	25.19	20.24	56.00	46.00	-30.81	-25.76	Pass
4	1.7113	4.02	0.83	19.56	23.58	20.39	56.00	46.00	-32.42	-25.61	Pass
5	3.0084	4.87	0.81	19.62	24.49	20.43	56.00	46.00	-31.51	-25.57	Pass
6	23.9103	10.97	2.61	20.34	31.31	22.95	60.00	50.00	-28.69	-27.05	Pass



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7.2 Minimum 6dB Bandwidth

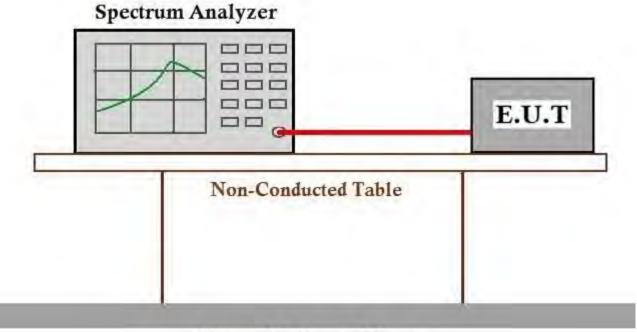
Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:25 °CHumidity:48 % RHAtmospheric Pressure:1009 mbarTest modea:TX mode_Keep the EUT in continuously transmitting mode with all modulation
types. All data rates for each modulation type have been tested and found the
data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the
worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE
802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).
Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600653101



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7.3 Conducted Peak Output Power

Test Requirement47 CFR Part 15, Subpart C 15.247(b)(3)Test Method:ANSI C63.10 (2013) Section 11.9.1Limit:Limit:

Frequency range(MHz)Output power of the intentional radiator(watt)	
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850 1 for frequency hopping systems and digital modula	



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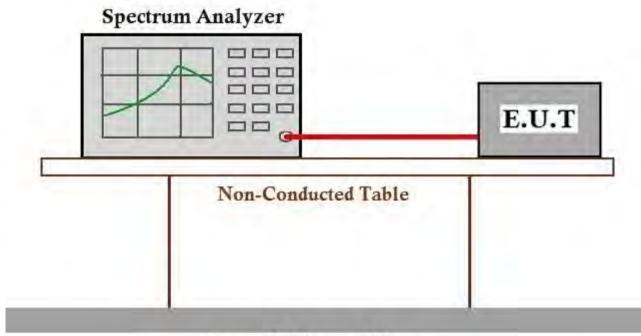


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7.3.1 E.U.T. Operation

Operating Enviro	nment:	
Temperature:	25 °C Humidity: 48 % RH Atmospheric Pressure: 1009	mbar
Test mode	a:TX mode_Keep the EUT in continuously transmitting mode with all modu types. All data rates for each modulation type have been tested and found data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case is worst case of IEEE 802.11n	the is the E

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600653101



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7.4 Power Spectrum Density

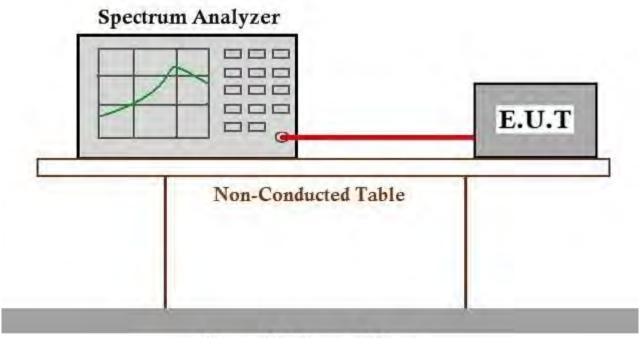
Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	\leq 8dBm in any 3 kHz band during any time interval of continuous transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature:25 °CHumidity:48 % RHAtmospheric Pressure:1009 mbarTest modea:TX mode_Keep the EUT in continuously transmitting mode with all modulation
types. All data rates for each modulation type have been tested and found the
data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the
worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE
802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).
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7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600653101



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7.5 Conducted Band Edges Measurement

47 CFR Part 15, Subpart C 15.247(d) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.13.3.2 Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)



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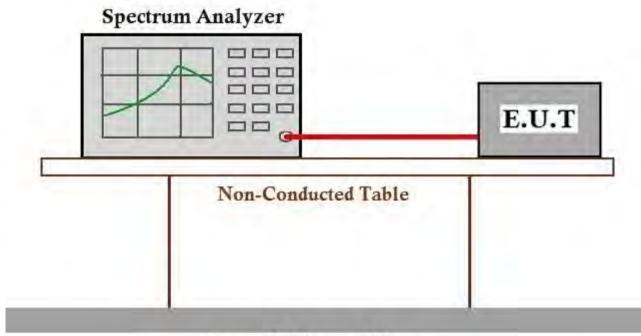


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7.5.1 E.U.T. Operation

Operating Enviro	nment:	
Temperature:	25 °C Humidity: 48 % RH Atmospheric Pressure: 1009 mb	bar
Test mode	a:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40) Only the data of worst case is recorded in the report.	•

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600653101



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7.6 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.11
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)



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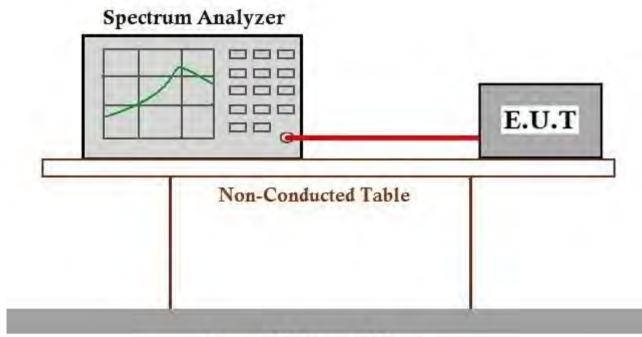


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7.6.1 E.U.T. Operation

Operating Enviro	nment:	
Temperature:	25 °C Humidity: 48 % RH Atmospheric Pressure: 1009 mb	ar
Test mode	a:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40) Only the data of worst case is recorded in the report.	

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600653101



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7.7 Radiated Emissions which fall in the restricted bands

 Test Requirement
 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

 Test Method:
 ANSI C63.10 (2013) Section 6.10.5

 Limit:
 Ansi C63.10 (2013) Section 6.10.5

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.



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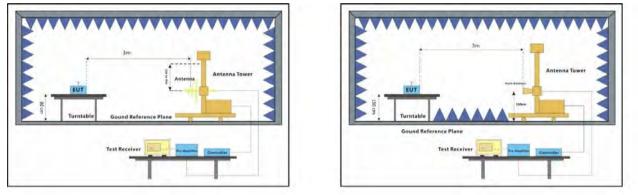


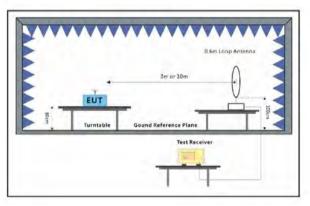
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7.7.1 E.U.T. Operation

Operating Enviro	onment:	
Temperature:	25 °C Humidity: 48 % RH Atmospheric Pressure	1009 mbar
Test mode	a:TX mode_Keep the EUT in continuously transmitting mode with all types. All data rates for each modulation type have been tested and data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6 worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802 Only the data of worst case is recorded in the report.	found the Mbps is the of IEEE

7.7.2 Test Setup Diagram







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7.7.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. 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.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. 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.

e. 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.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. 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.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

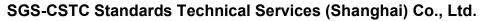
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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.



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DS-PHA64-W4P2

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low

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1	2330.860	56.87	-7.47	49.40	74.00	-24.60		pea	ak
2	2390.000	52.86	-7.34	45.52	74.00	-28.48		pea	ak
3	2413.320	102.55	-7.27	95.28	74.00	21.28		pea	ak



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).	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m		Limit (dBuV/m)	Margin (dB)		Rema	ark
	2	2377.480	57.73	-7.36	50.37	74.00	-23.63		pea	k
	2	2390.000	56.35	-7.34	49.01	74.00	-24.99		pea	k
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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	F	Remark
1	2462.000	102.23	-7.12	95.11	74.00	21.11		peak
2	2483.500	54.53	-7.06	47.47	74.00	-26.53		peak
3	2497.400	56.08	-7.01	49.07	74.00	-24.93		peak
4	2500.000	53.30	-7.00	46.30	74.00	-27.70		peak

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High

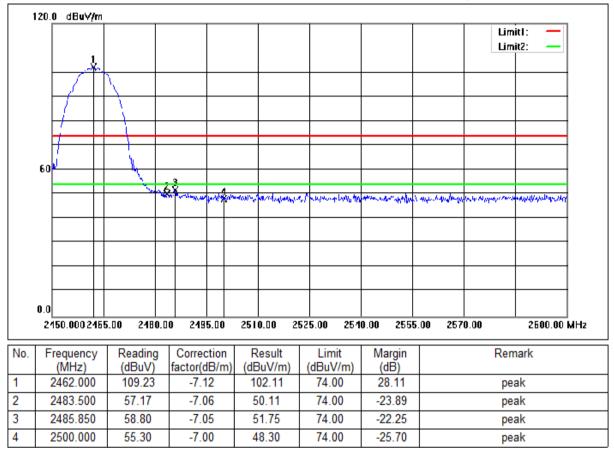


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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



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3	241	8.640	102.9	2	-7	.25	9	5.67		74.0	0	21	.67				pea	ak		

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



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3		2414.440	1	09.73		-7.2	6	1	02.47		74.0)0	28	3.47				pea	ak		

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



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	245	50. 0 00	246	5.00 248	0.0	0 249	5.00) 25	0.00	252	5.00 2!	540	.00 255	5.00	257	0.00		2600.	00 MHz
No.	Fre	equen (MHz)	cy	Reading (dBuV)		Corre factor(c			Result BuV/m)	Limit (dBuV/m)	Margin (dB)				Ren	nark	
1		459.6		102.71		-7.1			95.59		74.00		21.59				ре	ak	
2		483.5		53.78		-7.0			46.72		74.00		-27.28				pe	ak	
3		494.2		56.95		-7.0		_	49.93		74.00		-24.07					ak	
4	2	500.0	00	54.88		-7.(00	4	47.88		74.00		-26.12				pe	ak	

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



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	0.0 2150.00	0 2 4 6 5	.00 248	0.00	2195	5.00	251	0.00	252	5.00 25	510.00	0 255	5.00 6	2570.0	0	2500.00	 MHz
No.	Frequer (MHz		Reading (dBuV)		orrect			lesult BuV/m)		Limit (dBuV/m)		Margin (dB)			Ren	nark	
1	2468.9	-	108.73		-7.1			01.63		74.00	_	27.63			pe	ak	
2	2483.5	500	55.82		-7.0	6	4	8.76		74.00		-25.24			pe	ak	
3	2493.6		56.61		-7.02			9.59		74.00		-24.41			pe	ak	
4	2500.0	000	54.65		-7.0	0	4	7.65		74.00		-26.35			pe	ak	

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



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	£.	310.0002321		10 2332.		230	0.00		0.00	233	1.00	2100		2.00		2450.001	WI 12
No.	F	requency (MHz)	Reading (dBuV)	Correct factor(dE			esult luV/m)	(Limi dBuV			rgin B)			Rem	ark	
1		2349.480	56.78	-7.43		4	9.35		74.0	0	-24	1.65			pea	ik	
2	1	2390.000	54.83	-7.34	1	4	7.49		74.0	0	-26	6.51			реа	ik	
3		2418.920	102.07	-7.25	i i	9	4.82		74.0	0	20	.82			pea	ik	

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



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	L	10.0002324	.00 2338.1	10 2352.00	2366	6.00 2.	380.00 239	1.00 240	8.00 212	2.00	2150.00 MHz
No.	Fr	equency (MHz)	Reading (dBuV)	Correctior factor(dB/n		esult uV/m)	Limit (dBuV/m)	Margin (dB)		Rem	ark
1		370.480	58.33	-7.38		0.95	74.00	-23.05		pea	ak
2	2	390.000	55.99	-7.34	4	8.65	74.00	-25.35		pea	ak
3	2	416.820	109.65	-7.26	10	2.39	74.00	28.39		pea	ak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



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	2'	150.	000 246!	5.00	2480	.00	249	5.00	251	0.00	253	25.00	254	0.00 2	555.	.00 251	70.00		2600.00	MHz
No.	F	req (M	uency Hz)		ading BuV)			ction IB/m		Result BuV/n		Lim (dBu\		Marg (dB)				Rem	nark	
1		245	5.850	10	2.25		-7.1	14	9	95.11		74.0)0	21.1	1			pea	ak	
2			3.500	L	.79	_	-7.0			46.73		74.0		-27.2				pea		
3			9.750		6.60	_	-7.0			19.56		74.0		-24.4				pea		
4	1	250	0.000	53	.75		-7.0)0	4	46.75		74.0)0	-27.2	25			pea	ak	

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



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	2150.0002465	5.00 2480.0	0 2195.00	2510.00 2	525.00 254	0.00 2555	.00 2570.00	2500.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rer	mark
1	2468.900	108.68	-7.10	101.58	74.00	27.58	pe	eak
2	2483.500	56.18	-7.06	49.12	74.00	-24.88		eak
3	2495.600	57.84	-7.02	50.82	74.00	-23.18	pe	eak
4	2500.000	55.21	-7.00	48.21	74.00	-25.79	pe	eak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



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	2310.000233	24.00 2338.1	00 2352.00	2356.00 2	380.00 239	1.00 2108	.00 2122.00	2150.00 MHz						
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark						
1	2388.820	66.18	-7.34	58.84	74.00	-15.16		peak						
2	2390.000	66.63	-7.34	59.29	74.00	-14.71		peak						
3	2429.000	101.34	-7.22	94.12	74.00	20.12	peak							

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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	2310.000232	1.00 2338.0	0 2352.00	2356.00 23	380.00 239	4.00 2408	.00 2422.00	2150.00 MHz
No.	Frequency	Reading	Correction	Result	Limit	Margin	R	Remark
4	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		AV/C
1	2339.960	45.25	-7.46	37.79	54.00	-16.21		AVG
2	2390.000	44.67	-7.34	37.33	54.00	-16.67		AVG
3	2428.300	91.34	-7.22	84.12	54.00	30.12		AVG

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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	23	310.0002324	1.00 2338	.00 235	2.00	235	6.00	238	0.00	239	1.00	240	8.00	242	2.00		2450.00	MHz
No.	F	requency	Reading	Correc	tion	R	esult	Τ	Lim	it	Ma	irgin				Rem	ark	
		(MHz)	(dBuV)	factor(c		<u> </u>	BuV/m)	((dBuV		(d	IB)						
1	1	2382.520	72.17	-7.3	35	6	4.82		74.0)0	-9	.18		peak				
2	1	2390.000	72.26	-7.3	34	6	4.92	T	74.0)0	-9	.08	peak					
3	1	2415.700	106.91	-7.2	26	9	9.65		74.0)0	25	5.65	peak					

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



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	2310.0	002324	1.00 233	38.0	0 235	2.00	235	6.00	238	10.00	<b>) 2</b> 39	94.00	2408	8.00	2422.0	00	2	150.00	MHz
No.			Correction factor(dB/m)		Result (dBuV/m)		)		imit uV/m)	Ma (0	argin dB)				Remark				
1	2384	.200	54.50		-7.3	5	4	7.15		54	1.00	-(	6.85		AVG				
2		.000	55.32		-7.3			7.98			1.00		6.02	AVG					
3	3 2408.980 98.05				-7.2	8	9	0.77		- 54	1.00	3	6.77			Α	٨VG		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



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120.0 dBu∀/m																
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	21	130.0	002447	7.00 2 <b>1</b> 64	1.00 248	1.00	2498	6.00 2	515.00	253	2.00 254	9.00 256	6.00	2500.00	MHz	
No.	Frequency Reading Correction (MHz) (dBuV) factor(dB/m)					Limit (dBuV/m)		Margin (dB)	Remark		nark					
1	2	2436	.800	103.15	-7.2	20	9	5.95	74.		21.95		peak			
2			.500	66.24	-7.(			9.18	74.		-14.82		peak			
3			.630	65.13	-7.0			8.08	74.		-15.92			ak		
4	2	2500	.000	58.30	-7.0	00	5	1.30	74.	00	-22.70	peak				

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



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	2130	.000 2447	7.00 2464.	00 2481.00	2498.00 2	515.00 253	2.00 2519.	00 2566.00	2500.00 MHz
No.	Freq (N	uency IHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rei	mark
1		10.540	93.22	-7.19	86.03	54.00	32.03		VG
2		33.500	44.83	-7.06	37.77	54.00	-16.23		VG
3		37.290	45.24	-7.05	38.19	54.00	-15.81		VG
4	250	00.000	45.03	-7.00	38.03	54.00	-15.97	A	VG

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



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No.	F	requency (MHz)		ading BuV)	Cor facto					esul luV/		(	Limi dBuV		M	argin dB)				Rei	marl	¢	
1	:	2457.540		8.48		7.1		-		)1.3		<b>–</b>	74.0			7.34	+	peak					
2		2483.500	71	.98	-	7.0	6		6	4.92	2		74.0	0	-	9.08		peak					
3		2487.970		.00	_	7.0				3.96			74.0	0	-1	10.04		peak					
4		2500.000	66	.35	-	7.0	0		5	9.35			74.0	0	-1	14.65				pe	eak		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



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	2130.000 2113	7.00 2464.0	10 2481.00	2498.00 2	515.00 253	2.00 2549.	00 2566.00	2500.00 MHz	
0.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark	
	2462.810 99.22		-7.12	92.10	54.00	38.10	A	VG	
	2483.500	49.45	-7.06	42.39	54.00	-11.61	A	VG	
	2487.290	49.53	-7.05	42.48	54.00	-11.52	A	VG	
_	2500.000	48.78	-7.00	41.78	54.00	-12.22	AVG		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



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### DS-PHA64-W4M

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low

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D.	0.0 23			3.00 235 Correc	i2.00	236			2391.		8.00 242	22.00		MHz
	0.0 23 Fi	310.000 2324	1.00 2338 Reading	5.00 235	i2.00	236	6.00 2	380.00	2391. n)	.00 210 Margin	8.00 242	22.00 Rei	2450.00	MHz
	0.0 23 Fi	310.0002324 requency (MHz)	1.00 2338 Reading (dBuV)	5.00 235 Correct factor(d	i2.00 ction dB/m) 50 34	236 R (dE	6.00 2 esult 8uV/m)	380.00	2391. n)	.00 210 Margin (dB)	8.00 242	22.00 Rei	2150.00 mark	MHz



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	2310.000232	4.00 2338.0	10 2352.00	2356.00 2	380.00 239	1.00 2408	.00 242	2.00	2450.00 MHz	
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Rema	ark	
1	2331.980	57.56	-7.47	50.09	74.00	-23.91		peal	k	
2	2390.000	53.85	-7.34	46.51	74.00	-27.49		peak		
3	2412.060	109.86	-7.27	102.59	74.00	28.59		peal	k	

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



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No.	F	requency (MHz)	У	Reading (dBuV)	t	Correct factor(d			Resul BuV/r			imit uV/m)		argin dB)				Ren	nark		
1		2462.000	)	102.20		-7.1			95.08		74	1.00	2	21.08				ре	ak		
2		2483.500		54.97		-7.0	)6	4	47.91			1.00		26.09				ре	ak		
3		2486.600		56.86		-7.0	)5	4	49.81		74	1.00	-2	24.19				ре	ak		
4		2500.000	)	54.15		-7.0	)0	4	47.15		74	1.00	-2	26.85				ре	ak		

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



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	2	150.000 246	5.00 2480.0	10 2495.00	2510.00 2	525.00 254	0.00 2555	.00 2570.00	2500.00 MHz
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1		2461.850	109.05	-7.12	101.93	74.00	27.93	F	beak
2		2483.500	56.75	-7.06	49.69	74.00	-24.31	F	beak
3	L	2486.450	57.84	-7.05	50.79	74.00	-23.21		beak
4		2500.000	55.46	-7.00	48.46	74.00	-25.54	F	beak

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
1	2346.260	57.06	-7.43	49.63	74.00	-24.37		peak	
2	2390.000	55.44	-7.34	48.10	74.00 -25.90		peak		
3	2416.260	101.75	-7.26	94.49	74.00	20.49		peak	

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



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	2310.000232	1.00 2338.0	0 2352.00	2356.00 2	380.00 239	1.00 2108	.00 2122.00	2150.00 MHz
No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)		
1	2376.920	58.21	-7.36	50.85	74.00	-23.15		peak
2	2390.000	55.86	-7.34	48.52	74.00	-25.48		peak
3	2410.240	109.81	-7.27	102.54	74.00	28.54		peak

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



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1	20.0 dB	lu∀/m											
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	2150.00	02465	5.00 2480.	.00 249	35.00	2510	).00 2!	525.00 254	0.00 255	5.00 257	0.00	2500.00	MHz
No.	Freque (MH	ency z)	Reading (dBuV)	Corre factor(			esult uV/m)	Limit (dBuV/m)	Margin (dB)		Ren	nark	
1	2457.		102.73	-7.			5.59	74.00	21.59		pe	ak	
2	2483.	500	54.91	-7.	06		7.85	74.00	-26.15		pe	ak	
3	2493.		55.96	-7.			8.94	74.00	-25.06		pe		
4	2500.	000	54.89	-7.	00	4	7.89	74.00	-26.11		pe	ak	

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



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1	120.0 d⊟u∀/m							
	1							mit1: — mit2: —
	1							
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	0.0	5.00 2480.0	10 2195.00	2510.00 2	525.00 251	0.00 2555.	00 2570.00	2500.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
1	2460.500	108.76	-7.12	101.64	74.00	27.64	р	eak
2	2483.500	55.99	-7.06	48.93	74.00	-25.07		eak
3	2498.750	58.03	-7.01	51.02	74.00	-22.98		eak
4	2500.000	56.20	-7.00	49.20	74.00	-24.80	р	eak

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



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		0.0002324	1.00 23	38.0	0 235	2.00	235	6.00	23	10.00	239	1.00	240	8.00	212	2.00		21!	50.00	MHz
No.		equency (MHz)	Readir (dBuV		Correct factor(c			lesult BuV/m	)	Lim (dBuV		Mai (dl	rgin B)				Ren	nark		
1		343.320	56.68		-7.4			9.24	1	74.0		<u> </u>	.76				ре	ak		
2	2	390.000	54.02		-7.3	34	4	6.68		74.0	)0	-27	.32				ре	ak		
3	24	414.860	102.14 -7.26 94.8		4.88		74.0	)0	20	.88				ре	ak					

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



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	0.0							
	2310.0002324	1.00 2338.0	10 2352.00	2356.00 2	380.00 239	1.00 2108	.00 2422.00	2150.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	emark
1	2380.840	57.95	-7.35	50.60	74.00	-23.40	F	beak
2	2390.000	55.82	-7.34	48.48	74.00	-25.52	F	eak
3	2409.400	108.52	-7.28	101.24	74.00	27.24	F	eak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



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	0.0 2150.00(	) 2469	5.00 2480.	00 2195.00	2510.00 2	525.00 251	0.00 2555.	00 2570.00	2500.00 MHz
No.	Frequer (MHz	ncy :)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rei	mark
1	2459.1		102.54	-7.13	95.41	74.00	21.41	pe	eak
2	2483.5		55.25	-7.06	48.19	74.00	-25.81	pe	eak
3	2494.4		56.94	-7.02	49.92	74.00	-24.08		eak
4	2500.0	000	55.60	-7.00	48.60	74.00	-25.40	pe	eak

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



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	24	150.000	2469	5.00 2480.	.00 249	5.00	251	0.00 ;	252	5.00 254	0.00 255	5.00 257	70.00	2500.00	MHz
No.	F	requer (MHz		Reading (dBuV)	Correct factor(d			esult 3uV/m)	(	Limit (dBuV/m)	Margin (dB)		Ren	nark	
1		2458.8		109.58	-7.1	-	<u> </u>	02.45	T	74.00	28.45		ре	ak	
2	1	2483.5	00	56.76	-7.0	)6	4	9.70		74.00	-24.30		pe	ak	
3	1	2496.2	00	57.16	-7.0	)1	5	0.15		74.00	-23.85		peak		
4	1	2500.0	00	57.71	-7.0	)0	5	0.71		74.00	-23.29		pe	ak	

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



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	2310.000232	1.00 2338.0	10 2352.00	2356.00 2		1.00 2108	.00 2122.00	2150.00 MHz	
				D b			1		
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
1	2386.160	65.87	-7.34	58.53	74.00	-15.47		peak	
2	2390.000	65.09	-7.34	57.75	74.00	-16.25		peak	
3	2427.460	102.32	-7.22	95.10	74.00	21.10		peak	

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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Vo.	Freq	uency Hz)	Reading (dBuV)				esult BuV/m)		Limit BuV/m)	Ma	argin dB)			R	emar	k	
1		1.760	44.77	-7.			7.27		54.00		6.73			/	AVG		
2		0.000	43.92	-7.			6.58		54.00	_	7.42				AVG		
3	243	3.340	92.06	-7.3	21	8	4.85		54.00	3	0.85			/	AVG		

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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	0.0	1.00 2338.0	0 2352.00	2356.00 23	380.00 239	1.00 2108	.00 2122.00	2150.00 M	lHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
1	2383.360	69.41	-7.35	62.06	74.00	-11.94		peak	
2	2390.000	67.44	-7.34	60.10	74.00	-13.90		peak	
3	2416.260	108.23	-7.26	100.97	74.00	26.97		peak	

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



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	2310.000232	1.00 2338.0	10 2352.00	2356.00 2	380.00 239	1.00 2108	.00 2422.00	2150.00 MHz
lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
	2388.260	48.93	-7.34	41.59	54.00	-12.41		AVG
	2390.000	48.86	-7.34	41.52	54.00	-12.48		AVG
3	2416.400	95.79	-7.26	88.53	54.00	34.53		AVG

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



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	2'	130.0	002447	.00 246·	1.00 24	81.00	2498	B.OO 2	515	.00 ;	253	2.00 254	9.00	256	6.00	2500.00	MHz
No.	F	requ (MH	ency Iz)	Reading (dBuV)				esult uV/m)	(d	Limit BuV/r	n)	Margin (dB)			Ren	nark	
1		2437		101.51	-7.	20		4.31		74.00		20.31			pe	ak	
2		2483		66.29	-7.			9.23	-	74.00		-14.77			pe		
3	L	2485		66.57	-7.			9.52	_	74.00		-14.48			pe		
4		2500	.000	59.28	-7.	00	5	2.28		74.00		-21.72			pe	ak	

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



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1	120.0 dBuY/m							
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	2130.000 2117	7.00 2464.0	10 2181.00	2498.00 2	515.00 253	2.00 2519.	00 2566.00	2500.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
1	2460.770	92.62	-7.12	85.50	54.00	31.50	A	VG
2	2483.500	44.31	-7.06	37.25	54.00	-16.75		VG
3	2493.750	44.44	-7.02	37.42	54.00	-16.58		VG
4	2500.000	44.35	-7.00	37.35	54.00	-16.65	A	VG

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



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		130.0002	2417	.00 2464.	00 248	  .00	2498		515.00	) 253	 2.00 254	  9.00 256	6.00	2500.001	MHz
	_														
No.	F	requenc (MHz)	;y	Reading (dBuV)	Correct factor(d			esult uV/m)		imit uV/m)	Margin (dB)		Ren	nark	
1		2442.41	0	108.18	-7.1			1.00	<u> </u>	4.00	27.00		pe	ak	
2	1	2483.50	0	67.95	-7.0	6	6	0.89	74	1.00	-13.11		pe	ak	
3	1	2485.25	0	67.39	-7.0	5	6	0.34	74	1.00	-13.66		pe	ak	
4		2500.00	0	62.53	-7.0	0	5	5.53	- 74	1.00	-18.47		pe	ak	

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



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	0.0 2130.000 211	7.00 2464.0	0 2181.00	2498.00 2	515.00 253	2.00 2519.	00 2566.00	2600.00 MHz
0.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R	emark
	2455.670 98.50 -7.14		91.36			AVG		
	2483.500 46.93 -7		-7.06	39.87	54.00	-14.13	1	AVG
	2485.590	46.84	-7.05	39.79	54.00	-14.21	1	AVG
-	2500.000	45.24	-7.00	38.24	54.00	-15.76		AVG

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



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## 7.8 Radiated Spurious Emissions

 Test Requirement
 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

 Test Method:
 ANSI C63.10 (2013) Section 6.4,6.5,6.6

 Limit:
 Ansi C63.10 (2013) Section 6.4,6.5,6.6

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.



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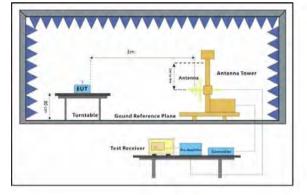


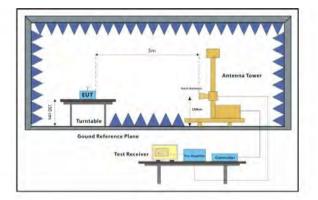
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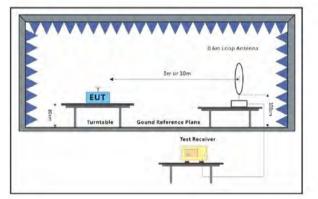
### 7.8.1 E.U.T. Operation

Operating Enviro	Operating Environment:								
Temperature:	Temperature: 25 °C Humidity: 48 % RH Atmospheric Pressure: 1009 r								
Test mode	with all mode and found th 6Mbps is the of IEEE 802 802.11n(HT4 b:TX mode (	a:TX mode (DS-PHA64-W4P2)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report. b:TX mode (DS-PHA64-W4M)_Keep the EUT in continuously transmitting mode							
	and found th 6Mbps is the of IEEE 802	ation types. All data rates for each modulation type have been tested data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case 1n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 0). Only the data of worst case is recorded in the report.							

### 7.8.2 Test Setup Diagram









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#### 7.8.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. 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.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. 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.

e. 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.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. 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.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark:

1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

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

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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.

4) 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.



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# DS-PHA64-W4P2 Mode a: 30MHz-1GHz Polarization:Horizontal 70.0 dBuV/m Limit1: Margin: S X 3 35 make when he have been when Martin bright and the best of a phylicity vtw 0.0 30.000 224.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz 127.00 321.00

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.0000	3.67	25.93	29.60	40.00	-10.40	100	81	QP
2	226.9100	10.11	17.90	28.01	46.00	-17.99	100	81	QP
3	301.6000	14.56	20.68	35.24	46.00	-10.76	100	186	QP
4	385.0200	7.51	23.22	30.73	46.00	-15.27	100	202	QP
5	439.3400	6.26	24.15	30.41	46.00	-15.59	100	202	QP
6	832.1900	8.84	27.99	36.83	46.00	-9.17	100	359	QP



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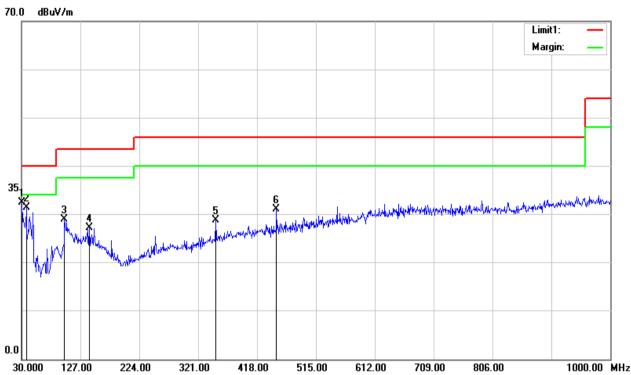
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Polarization:Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.9700	7.11	25.38	32.49	40.00	-7.51	201	96	QP
2	37.7600	9.98	21.51	31.49	40.00	-8.51	201	96	QP
3	100.8100	10.40	18.54	28.94	43.50	-14.56	100	171	QP
4	141.5500	7.35	19.86	27.21	43.50	-16.29	201	156	QP
5	350.1000	6.44	22.38	28.82	46.00	-17.18	151	361	QP
6	450.0100	6.83	24.31	31.14	46.00	-14.86	100	11	QP



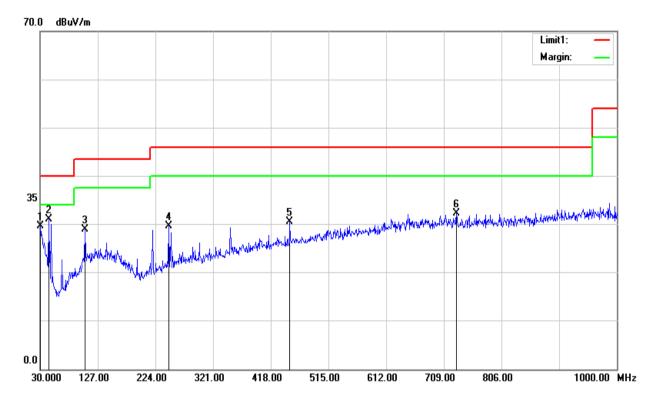
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DS-PHA64-W4M Mode b: 30MHz-1GHz Polarization:Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.9700	4.24	25.38	29.62	40.00	-10.38	100	133	QP
2	44.5500	13.31	17.70	31.01	40.00	-8.99	100	22	QP
3	105.6600	10.30	18.69	28.99	43.50	-14.51	100	22	QP
4	246.3100	10.59	19.09	29.68	46.00	-16.32	100	33	QP
5	450.0100	6.19	24.31	30.50	46.00	-15.50	100	278	QP
6	730.3400	4.77	27.49	32.26	46.00	-13.74	100	59	QP



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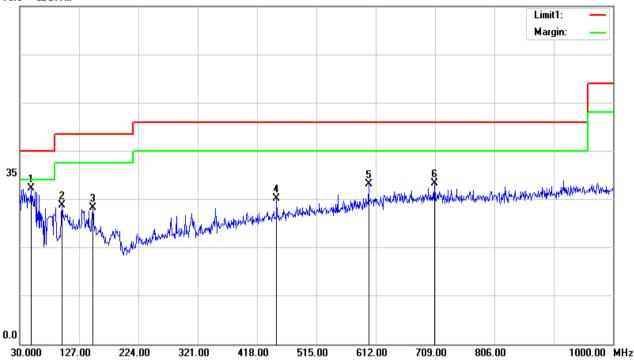


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Polarization:Vertical





No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	48.4300	16.82	15.54	32.36	40.00	-7.64	100	221	QP
2	98.8700	10.55	18.30	28.85	43.50	-14.65	100	9	QP
3	149.3100	8.11	20.12	28.23	43.50	-15.27	100	228	QP
4	450.0100	5.84	24.31	30.15	46.00	-15.85	100	10	QP
5	600.3600	6.67	26.51	33.18	46.00	-12.82	100	56	QP
6	708.0300	5.87	27.50	33.37	46.00	-12.63	100	199	QP



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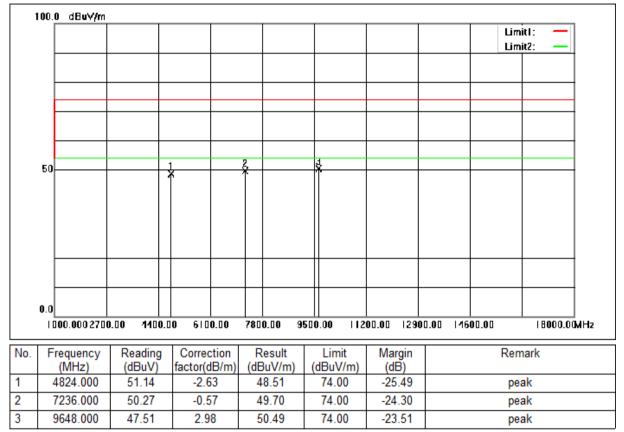


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# DS-PHA64-W4P2

Above 1GHz

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low





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No.	F	requency	Reading	1	Correc	tion	R	esult	Γ	Lin	nit	Ма	rgin				Ren	nark		
		(MHz)	(dBuV)	<u> </u>	factor(d	B/m)	(dE	BuV/m)	(	dBu\	//m)	(d	B)							
1		4824.000	50.90		-2.6			8.27		74.			5.73				ре			
2		7236.000	50.03		-0.5			9.46		74.			4.54					ak		
3	9	9648.000	47.12		2.9	8	5	0.10		74.	00	-23	3.90				ре	ak		

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



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No.	F	requency	Reading		Correc			lesult			.imit	Ma	argin				Ren	nark		
		(MHz)	(dBuV)	_	factor(d			BuV/m)	(		BuV/m)		IB)							
1		4874.000	50.72		-2.4			8.23			4.00		5.77				-	ak		
2		7311.000	50.17		-0.5	5	4	9.62			4.00	-24	4.38				ре	ak		
3	9	9748.000	47.37		2.7	0	5	60.07		7	4.00	-23	3.93				ре	ak		

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:middle



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No.	F	requency	Reading	Correc	tion	R	lesult		Limit	Margin			Rem	ark	
		(MHz)	(dBuV)	factor(c	lB/m)	(dE	BuV/m)	(0	lBuV/m)	(dB)					
1		4874.000	51.12	-2.4			8.63		74.00	-25.37			pea		
2		7311.000	49.93	-0.5			9.38		74.00	-24.62			pea	ak	
3		9748.000	47.74	2.7	0	5	0.44		74.00	-23.56			pea	ak	

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle



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## SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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	- 4	924.000	50.41			35		8.06		7	4.00	-25	.94				pea	ak		
	7	386.000	49.98	}	-0.	52	4	9.46		7	4.00	-24	.54				pea	ak		
	9	848.000	47.96	;	2.	81	5	0.77		7	4.00	-23	23				pea	ak		

#### Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



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1	4924	000	51.11		-2.3	15	- 4	8.76		7	74.00	-25	.24				pea	k	
2	7386	000	49.74		-0.5	2	4	9.22		7	74.00	-24	.78				pea	k	
3	9848	000	47.33		2.8	1	5	0.14		7	74.00	-23	.86				pea	k	

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



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		(MHz)	(dBuV)		factor(d			BuV/m)	(	dBuV/m)	(dB						
1		4824.000	51.14		-2.6			8.51		74.00	-25.4				pea		
2		7236.000	50.32		-0.5			9.75		74.00	-24.3				pea	ak	
3	9	9648.000	47.26		2.9	8	5	0.24		74.00	-23.	76			pea	ak	

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



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	(MHz)	(dBuV)	factor(dB/		BuV/m)	(dBuV/m)	(dB)				
1	4824.000	50.90	-2.63		8.27	74.00	-25.73		pea		
2	7236.000	50.08	-0.57		9.51	74.00	-24.49		pea		
3	9648.000	47.33	2.98	5	0.31	74.00	-23.69		pea	k	

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



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		(MHz)	(dBuV)		factor(d			BuV/m)			BuV/m)		IB)							
1		4874.000	51.32		-2.4			8.83	+		74.00		5.17					ak		
2		7311.000	50.32		-0.5			9.77	$\perp$		74.00		4.23				-	ak		
3		9748.000	47.41		2.7	0	5	0.11			74.00	-23	3.89				ре	ak		

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle



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		7311.000	50.08	-0.5			9.53		74.00	-24.47			pea		
		9748.000	47.78	2.7		5	0.48		74.00	-23.52			pea		

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle



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	(MHz)		dBuV)		factor(d			BuV/m	1)		BuV/m	)	(dB)							
1	4924.000		50.70		-2.3			8.35	$\square$		74.00		-25.65				pea			
2	7386.00		50.42		-0.5			9.90			74.00		-24.10				pea			
3	9848.00	) (	47.32		2.8	1	- 5	50.13			74.00		-23.87				pea	ak		

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



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No.	Frequency	Reading	Correction	Result	Limit	Margin	F	Remark
_	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)		
1	4924.000	51.10	-2.35	48.75	74.00	-25.25		peak
2	7386.000	50.18	-0.52	49.66	74.00	-24.34		peak
3	9848.000	47.69	2.81	50.50	74.00	-23.50		peak

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



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No.	F	requency	Reading	Correc			lesult		Limit	Margin			Rei	mark	
		(MHz)	(dBuV)	factor(o			BuV/m)	(	dBuV/m)	(dB)					
1		4824.000	50.98	-2.6			8.35		74.00	-25.65			-	eak	
2	1	7236.000	50.25	-0.5	57	4	9.68		74.00	-24.32			pe	eak	
3	(	9648.000	47.71	2.9	8	5	0.69		74.00	-23.31			pe	eak	

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



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No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/n		(dB)		
1	4824.000	50.74	-2.63	48.11	74.00	-25.89		peak
2	7236.000	50.01	-0.57	49.44	74.00	-24.56		peak
3	9648.000	47.78	2.98	50.76	74.00	-23.24		peak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



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		(MHz)	(dBuV	Ĩ	factor(d	IB/m)		BuV/m	)	(d	BuV/r		(dl	3)							
1		874.000	51.29		-2.4			8.80			74.00			.20					ak		
2	7	311.000	50.34		-0.5	5	4	9.79			74.00		-24	.21				pe	ak		
3	9	748.000	47.39		2.7	0	5	50.09			74.00		-23	.91				pe	ak		

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



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	1000.000270	0.00 1100.0	0 6100.00	7800.00 9	500.00  12	00.00 12901	0.00 14600.00	18000.00MHz
No.	Frequency	Reading	Correction	Result	Limit	Margin	R	lemark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.000	50.69	-2.49	48.20	74.00	-25.80		peak
2	7311.000	50.10	-0.55	49.55	74.00	-24.45		peak
3	9748.000	47.76	2.70	50.46	74.00	-23.54		peak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



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No.	Fr	requency	Reading	1	Correc	tion	F	lesult		l	Limit	Mai	rgin			Rem	ark	
		(MHz)	(dBuV)		factor(d	lB/m)		BuV/m)	(		BuV/m)	(dl	B)					
1	- 4	924.000	51.20		-2.3	5	- 4	8.85		7	4.00	-25	.15			pea	ak	
2	7	386.000	49.94		-0.5	2	4	9.42		7	4.00	-24	.58			pea	ak	
3	9	848.000	47.55		2.8	1	5	60.36		7	4.00	-23	.64			pea	ak	

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



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	1000.0002700	).00 1100.0	10 6100.00	7800.00 9	500.00  12	00.00  290	0.00 14600.00	18000.00MHz
No.	Frequency	Reading	Correction	Result	Limit	Margin	F	Remark
	(MHz)	(dBuV)	factor(dB/m		(dBuV/m)	(dB)		
1	4924.000	50.59	-2.35	48.24	74.00	-25.76		peak
2	7386.000	49.70	-0.52	49.18	74.00	-24.82		peak
3	9848.000	47.92	2.81	50.73	74.00	-23.27		peak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



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1		(MHz) 844.000	(dBuV) 51.16		factor(d -2.5			BuV/m) 8.59	- (	dBuV/m) 74.00	(dB) -25.41				pea	k	
2		266.000	50.16		-0.5			9.60		74.00	-24.40				pea		
3	9	688.000	47.82	_	2.8	7	5	0.69		74.00	-23.31				, pea		

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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No.	F	requency	Reading	)	Correc			lesult		Limit	Marg	jin			Rem	ark	
		(MHz)	(dBuV)		factor(d			BuV/m)		(dBuV/m)	(dB						
1		4844.000	50.92		-2.5			8.35		74.00	-25.0		peak				
2		7266.000	49.92		-0.5	6		9.36		74.00	-24.0		peak				
3	9	9688.000	47.89		2.8	7	5	0.76		74.00	-23.2	24	peak				

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



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No.	F	requency	Reading	3	Correc	tion	R	lesult			Limit	Ma	argin				Ren	nark		
		(MHz)	(dBuV)		factor(d			BuV/m)	)		BuV/m)	(d	IB)							
1		4874.000	50.85		-2.4			8.36			74.00		5. <b>6</b> 4		peak					
2	1	7311.000	49.64		-0.5	5	4	9.09			74.00	-24	4.91		peak					
3	9	9748.000	47.37		2.7	0	5	0.07			74.00	-23	3.93	peak						

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle



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	1000.000	2700.	00 110	0.0	0 610	0.00	780	0.00	950	10.1	00 112	:00.00	129	00.00	146	00.00		1800	0.00M	IHz
No.	Frequen	cy	Reading	1	Correc	tion	R	lesult	Τ		Limit	Ma	argin				Rem	ark		
	(MHz)		(dBuV)		factor(d	B/m)	(dE	BuV/m)			BuV/m)	(0	IB)							
1	4874.00	0	51.25		-2.4	9	4	8.76			74.00	-2	5.24		peak					
2	7311.00	0	50.40		-0.5	5	4	9.85		1	74.00	-2	4.15		peak					
3	9748.00	0	47.74		2.7	0	5	0.44	$\top$	1	74.00	-2	3.56	peak						

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle



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No.	Frequency	Reading	Correction	Result	Limit	Margin	R	emark	
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			
1	4904.000	51.31	-2.41	48.90	74.00	-25.10	peak		
2	7356.000	49.72	-0.53	49.19	74.00	-24.81	peak		
3	9808.000	47.56	2.59	50.15	74.00	-23.85		peak	

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



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No.	Fr	requency	Reading	Correc			esult	Limit	Margin		Ren	nark	
1		(MHz) 904.000	(dBuV) 50.71	factor(c			BuV/m) 8.30	(dBuV/m) 74.00	(dB) -25.70	_	naak		
2		7356.000	50.71	-2.4			9.59	74.00	-25.70		peak peak		
2		808.000	47.93	2.5			0.52	74.00	-24.41	peak			
~			41.00	2.0	~		0.02	14.00	20.40		pe		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



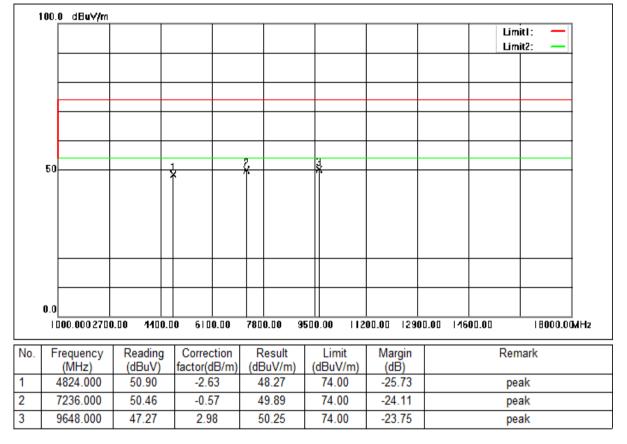
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### DS-PHA64-W4M



Mode:b; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



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No.	F	requency	Reading	)	Correc			lesult		Limit	Mar	rgin			Ren	nark	
		(MHz)	(dBuV)		factor(d			BuV/m)	(	dBuV/m)	(dl			poak			
1		4824.000	50.66		-2.6			8.03		74.00		.97	peak				
2		7236.000	50.31		-0.5			9.74		74.00		.26	peak				
3		9648.000	47.34		2.9	8	5	0.32		74.00	-23	.68			pe	ak	

Mode:b; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



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No.	F	requency	Reading	1	Correc	tion	R	lesult		Limit	Ma	rgin			F	Rema	ark	
		(MHz)	(dBuV)	<u></u>	factor(d	B/m)	(dE	BuV/m)	(0	dBuV/m)	(d	B)						
1		4874.000	51.02		-2.4			8.53		74.00		5.47		peak				
2		7311.000	49.88		-0.5			9.33		74.00		.67	peak					
3	9	9748.000	47.99		2.7	0	5	0.69		74.00	-23	3.31	peak					

Mode:b; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:middle



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		(MHz)	(dBuV)		factor(d	B/m)	(dE	BuV/m)	(		uV/m)	(0	IB)							
1	4	874.000	50.88		-2.4	9	4	8.39		74	4.00	-2	5.61		peak					
2	7	311.000	49.64		-0.5	5	4	9.09		74	4.00	-2	4.91		peak					
3	9	748.000	47.44		2.7	0	5	i0.14		74	4.00	-2	3.86	peak						

Mode:b; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle



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	1000.000271	1400.0	0 6100.00	7800.00 9	500.00  12	00.00 1290	0.00  1600.00	18000.00MHz	
No.	Frequency	Reading	Correction	Result	Limit	Margin	R	emark	
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			
1	4924.000	50.49	-2.35	48.14	74.00	-25.86	peak		
2	7386.000	49.76	-0.52	49.24	74.00	-24.76	peak		
3	9848.000	47.75	2.81	50.56	74.00	-23.44	peak		

Mode:b; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



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	(MHz)	(dBu\	/) f	factor(d			BuV/m)	(		BuV/m)	(df	3)					
1	4924.00			-2.3			8.54			4.00		.46	peak				
2	7386.00	0 50.0	2	-0.5	2	4	9.50		7	4.00	-24	.50	peak				
3	9848.00	0 47.5	8	2.8	1	5	0.39		7	4.00	-23	.61	peak				

Mode:b; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



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No.	Frequency	Reading	Correction	Result	Limit	Margin	F	Remark	
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			
1	4824.000	51.11	-2.63	48.48	74.00	-25.52	peak		
2	7236.000	50.39	-0.57	49.82	74.00	-24.18	peak		
3	9648.000	47.81	2.98	50.79	74.00	-23.21		peak	

Mode:b; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



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No.	Fr	requency	Reading	1	Correc	tion	R	esult		Limit	Margin				Rem	nark	
		(MHz)	(dBuV)		factor(d	IB/m)		BuV/m)	(	dBuV/m)	(dB)						
1		4824.000	50.87		-2.6			48.24		74.00	-25.76				peak		
2		7236.000	50.15		-0.5			9.58		74.00	-24.42				peak		
3	9	9648.000	47.06		2.9	8	5	0.04		74.00	-23.96				pea	ak	

Mode:b; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



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No.	Frequency	Reading	Correction	Result	Limit	Margin	R	lemark	
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			
1	4874.000	51.02	-2.49	48.53	74.00	-25.47		peak	
2	7311.000	50.45	-0.55	49.90	74.00	-24.10	peak		
3	9748.000	48.25	2.70	50.95	74.00	-23.05	peak		

Mode:b; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle



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No.	Frequency	Reading	Correction	Result	Limit	Margin	R	emark	
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			
1	4874.000	51.42	-2.49	48.93 74.00 -25.07		peak			
2	7311.000	50.21	-0.55	49.66	74.00	-24.34		peak	
3	9748.000	47.62	2.70	50.32	74.00	-23.68	peak		

Mode:b; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle



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		Hz)	(dBuV)		factor(d			BuV/m)	(		BuV/m)		B)							
1		4.000	50.39		-2.3			8.04			74.00		-25.96 peak							
2		6.000	49.60		-0.5			9.08			74.00		.92				pea			
3	984	8.000	47.86		2.8	1	5	6.67		7	74.00	-23	3.33				pea	ak		

Mode:b; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



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	1000.0002700	.00 1100.0	0 6100.00	7800.00 9	500.00  12	00.00  290	0.00  1600.00	18000.00MHz	
No.	Frequency	Reading	Correction	Result	Limit	Margin	Re	emark	
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			
1	4924.000	50.76	-2.35	48.41	74.00	-25.59 pe		eak	
2	7386.000	50.36	-0.52	49.84	74.00	-24.16	p	eak	
3	9848.000	47.23	2.81	50.04	74.00	-23.96	peak		

Mode:b; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



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No.	F	requency	Reading	Correc			lesult		Limit	Margin				Rema	ark	
		(MHz)	(dBuV)	factor(c			BuV/m)	(	dBuV/m)	(dB)						
1		4824.000	51.06	-2.6			8.43		74.00	-25.57				pea		
2	Ī	7236.000	50.48	-0.5	7	4	9.91		74.00	-24.09		peak		k		
3	9	9648.000	47.80	2.9	8	5	0.78		74.00	-23.22				pea	k	

Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



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	1000.0002700	).00 4400.0	0 6100.0	00 780	10.00 9!	500.00  120	00.00 1290	0.00   160	0.00	18000.00	MHz
No.	Frequency	Reading	Correctio		Result	Limit	Margin		Rem	ark	
	(MHz)	(dBuV)	factor(dB		BuV/m)	(dBuV/m)	(dB)				
1	4824.000	50.82	-2.63		18.19	74.00	-25.81		pea		
2	7236.000	50.24	-0.57		19.67	74.00	-24.33	peak			
3	9648.000	47.87	2.98		50.85	74.00	-23.15		pea	ik	

Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



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No.	F	requency	Reading	]	Correc			esult			Limit	Ma	argin				Ren	nark		
4		(MHz)	(dBuV)		factor(d			BuV/m)			BuV/m)		IB)					-1.		
1		4874.000	50.84		-2.4			8.35	+		74.00		5.65					ak		
2		7311.000	49.61		-0.5			9.06	_		74.00		4.94					ak		
3		9748.000	47.50		2.7	0	5	0.20		1	74.00	-2	3.80				pe	ak		

Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



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No.	Frequency	Reading	Correction	Result	Limit	Margin	R	emark
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)		
1	4874.000	51.24	-2.49	48.75	74.00	-25.25		peak
2	7311.000	50.37	-0.55	49.82	74.00	-24.18		peak
3	9748.000	47.87	2.70	50.57	74.00	-23.43		peak

Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



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No.	F	roquonev	Reading	Correct	ion	D	esult		Limit	Margin	1	Don	nark	
NU.		requency (MHz)	(dBuV)	factor(dE			BuV/m)	(d	BuV/m)	Margin (dB)		Ren		
1	4	4924.000	51.14	-2.35			8.79		74.00	-25.21		pe	ak	
2		7386.000	50.18	-0.52			9.66		74.00	-24.34				
3		9848.000	47.76	2.81			0.57		74.00	-23.43			ak	

Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



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No.	Frequency	Reading	Correction	Result	Limit	Margin	R	Remark
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)		
1	4924.000	50.54	-2.35	48.19	74.00	-25.81		peak
2	7386.000	49.94	-0.52	49.42	74.00	-24.58	peak	
3	9848.000	47.68	2.81	50.49	74.00	-23.51		peak

Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



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		(MHz)	(dBuV)		factor(d			BuV/m)		(dBuV/		(dE	3)						
1		4844.000	50.72		-2.5			8.15		74.00		-25					peak		
2		7266.000	49.95		-0.5			9.39		74.00		-24				F	peak		
3	9	9688.000	47.65		2.8	7	5	0.52		74.00	)	-23	.48			F	peak		

Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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	(MHz)	(dBuV)	factor(dB/		BuV/m)	(dBuV/m)	(dB)				
1	4844.000	51.48	-2.57	4	18.91	74.00	-25.09		peak	C C	
2	7266.000	49.71	-0.56	4	19.15	74.00	-24.85		peak	(	
3	9688.000	47.72	2.87	!	50.59	74.00	-23.41		peak	(	

Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



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No.	Frequency	Reading	Correction	Result	Limit	Margin	R	emark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.000	50.56	-2.49	48.07	74.00	-25.93		peak
2	7311.000	49.71	-0.55	49.16	74.00	-24.84		peak
3	9748.000	47.95	2.70	50.65	74.00	-23.35		peak

Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle



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1	100.0 dBu∀/m							
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No.	Frequency	Reading	Correction	Result	Limit	Margin	F	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.000	50.96	-2.49	48.47	74.00	-25.53		peak
2	7311.000	50.47	-0.55	49.92	74.00	-24.08		peak
3	9748.000	47.32	2.70	50.02	74.00	-23.98		peak

Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle



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					0.00		0.00		0.00 112	00.00	12.00	0.00			10000.00	
No.	F	requency	Reading				Result		Limit	Mar	gin			Rer	mark	
1		(MHz) 4904.000	(dBuV) 50.71	factor(c			BuV/m) 18.30		dBuV/m) 74.00	(dE -25.					eak	
2		7356.000	49.74	-0.5			9.21	+	74.00	-23					eak	
2		9808.000	48.03	2.5			50.62	+	74.00	-24					eak	
- -		0000.000	40.00	2.0	- -				14.00	20.				P	2000	

Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



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		100.0002700	.00 1100.1	00 6100.00	) 71	800.00 95	500.00   2	00.00 1290	0.00 1460	0.00	18000.00MHz
0.	F	requency	Reading	Correctio	n	Result	Limit	Margin		Rem	ark
		(MHz)	(dBuV)	factor(dB/i		dBuV/m)	(dBuV/m)	(dB)		i tom	
	4	1904.000	51.11	-2.41		48.70	74.00	-25.30		pea	k
	7	7356.000	50.42	-0.53		49.89	74.00	-24.11		pea	k
-	0	9808.000	47.90	2.59		50.49	74.00	-23.51	1	pea	k

Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



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## 8 **Test Setup Photographs**

Refer to the < Test Setup photos-FCC>.

## **EUT Constructional Details** 9

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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