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TEST REPORT

Application No.:	KSEM2108001384CR
FCC ID:	2ADTD-K1T690MW
Applicant:	Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Applicant:	No.555 Qianmo Road, Binjiang District Hangzhou 310052, China
Manufacturer:	Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Manufacturer:	No.555 Qianmo Road, Binjiang District Hangzhou 310052, China
Factory:	1.Hangzhou Hikvision Technology Co., Ltd.
	2.Hangzhou Hikvision Electronics Co., Ltd.
	3.Hangzhou Hikvision Digital Technology Co., Ltd.
	4. Chongqing Hikvision technology Co., Ltd
Address of Factory:	1.No.700, Dongliu Road, Binjiang District, Hangzhou Ctiy, Zhejiang, 310052, China
	2.No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang, 310052, China.
	3.No.555 Qianmo Road, Binjiang District Hangzhou 310052, China
	4.NO.118.Haikang Road, Area C, Jianqiao Industrial Park, Dadukou District, Chongqing, 401325, China
Equipment Under Test (EU	
EUT Name:	Face Recognition Terminal
Model No.:	DS-K1T690MW,DS-K1T690MWUHK,DS-K1T690MWCKV,DS- K1T690MWUVS,DS-K1T690MWKVO,DS-K1T690MWHUN¤
¤	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark:	HIKVISION
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2021-08-12
Date of Test:	2021-12-24 to 2022-01-11
Date of Issue:	2022-01-11
Test Result:	Pass*
L	

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

Eni fri

Eric Lin Laboratory Manager



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Revision Record						
Version	Description	Date	Remark			
00	Original	2022-01-11	/			

Authorized for issue by:		
	Damon zhou	
	Damon Zhou / Project Engineer	
	Eni fri	
	Eric Lin / Reviewer	



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2 Test Summary

Radio Spectrum Tech	nical 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 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 Average Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.2	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:

There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DS-K1T690MW was tested since their differences were the model number, trade name, Color and appearance.



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Test Report Form Version: Rev01



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 12-24V, 4A
Test voltage:	AC 120V/60Hz
Antenna Gain:	1dBi (Provided by the manufacturer)
Antenna Type:	FPC Antenna
Channel Spacing:	5MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)
	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
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	39	50	50
6	39	50	50
11	39	50	50
Channel	802.11n(HT40)		
Channel	Ant 1		
3	46		
6	48		
9	48		

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	ΗΟΝΟΤΟ	ADS-12AM-12 12 12012EPCU	/
Note Book	Acer	ZQT	NXM0QCN01031403EE876





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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
0	DE Dedicted Device	5.2dB (Below 1GHz)
8	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
0	Dedicted Sourieus 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%

4.4 Measurement Uncertainty

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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Equipment List 5

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
	ducted Emission at Mains Terminals (150					
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
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	10/11/2021	10/10/2022
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021	08/26/2022
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	10/12/2021	10/11/2022
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	10/12/2021	10/11/2022
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	10/14/2021	10/13/2022
RF R	adiated Test					
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
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	10/18/2021	10/17/2022
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~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R



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15	Filter (5150 MHz \sim 5350 MHz $)$	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
16	Filter (885 MHz \sim 915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz \sim 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 6dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1dBi.

Antenna location: Refer to Appendix (Internal Photos)



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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:	

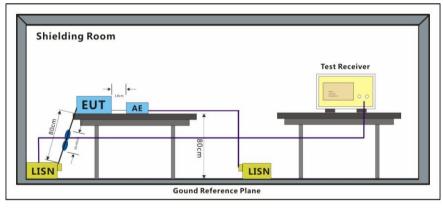
	Conducted limit(dBµV)			
Frequency of emission(MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		
*Decreases with the logarithm of the		50		

7.1.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:48 % RHAtmospheric Pressure:1010 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.

7.1.2 Test Setup Diagram





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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 + 50hm 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

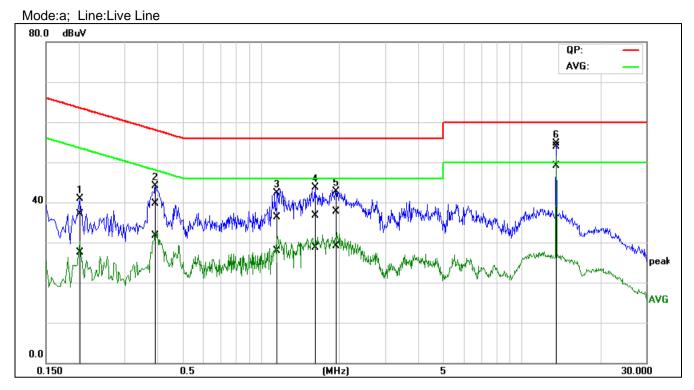


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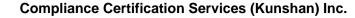


No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.2000	17.28	7.76	19.75	37.03	27.51	63.61	53.61	-26.58	-26.10	Pass
2	0.3950	20.00	11.93	19.76	39.76	31.69	57.96	47.96	-18.20	-16.27	Pass
3	1.1536	16.54	8.23	19.69	36.23	27.92	56.00	46.00	-19.77	-18.08	Pass
4	1.5960	17.05	8.92	19.71	36.76	28.63	56.00	46.00	-19.24	-17.37	Pass
5	1.9513	18.04	9.46	19.72	37.76	29.18	56.00	46.00	-18.24	-16.82	Pass
6*	13.5611	33.89	29.13	20.03	53.92	49.16	60.00	50.00	-6.08	-0.84	Pass



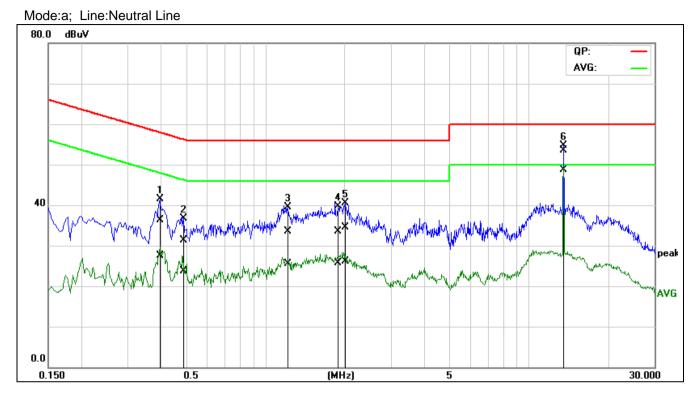
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No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
		-									
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.3967	16.47	7.74	19.78	36.25	27.52	57.92	47.92	-21.67	-20.40	Pass
2	0.4897	11.56	3.84	19.80	31.36	23.64	56.17	46.17	-24.81	-22.53	Pass
3	1.2024	13.76	5.72	19.70	33.46	25.42	56.00	46.00	-22.54	-20.58	Pass
4	1.8943	13.80	6.05	19.72	33.52	25.77	56.00	46.00	-22.48	-20.23	Pass
5	2.0035	14.79	6.44	19.72	34.51	26.16	56.00	46.00	-21.49	-19.84	Pass
6*	13.5614	33.42	28.63	20.02	53.44	48.65	60.00	50.00	-6.56	-1.35	Pass



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7.2 Minimum 6dB Bandwidth

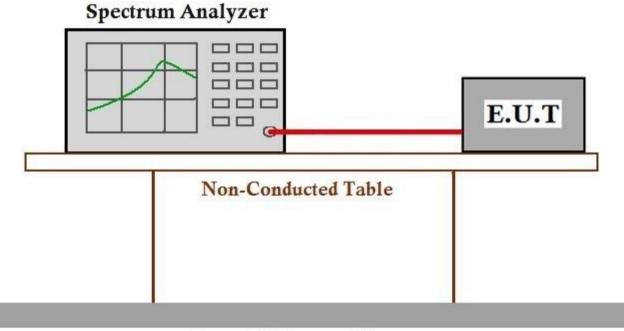
Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 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 KSEM210800138401



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7.3 Conducted Average Output Power

Test Requirement	47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method:	ANSI C63.10 (2013) Section 11.9.2
Limit:	

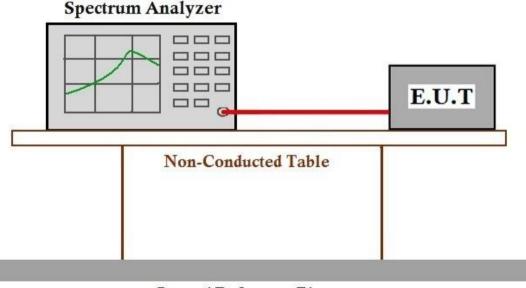
Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar a:TX mode_Keep the EUT in continuously transmitting mode with all modulation Test mode 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.

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSEM210800138401







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7.4 Power Spectrum Density

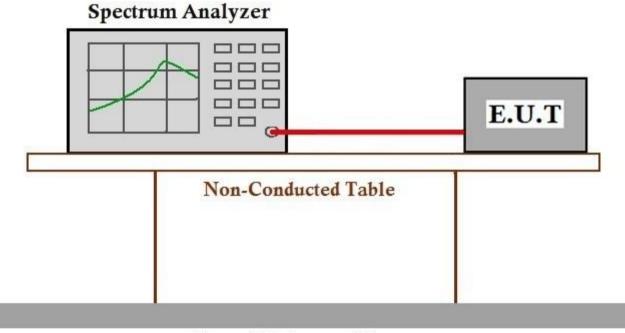
Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	\leq 8dBm in any 3 kHz band during any time interval of continuous
	transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 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.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSEM210800138401



Test Report Form Version: Rev01



Limit:

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7.5 Conducted Band Edges Measurement

Test Requirement47 CFR Part 15, Subpart C 15.247(d)Test Method:ANSI C63.10 (2013) Section 11.13.3.2

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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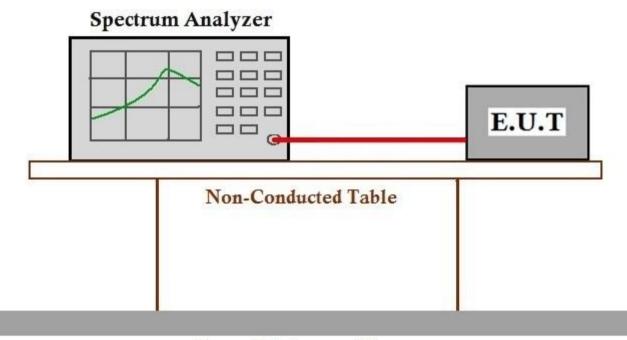
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7.5.1 E.U.T. Operation

Operating	Environment:
operating	

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 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.

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSEM210800138401



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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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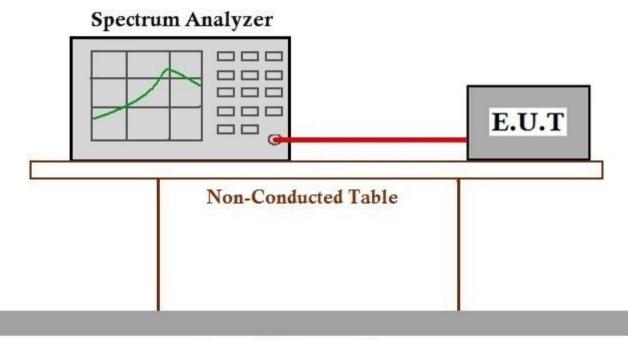
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7.6.1 E.U.T. Operation

Operating	Environment:
Operating	

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 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.

7.6.2 Test Setup Diagram



Ground Reference Plane

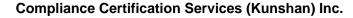
7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSEM210800138401



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7.7 Radiated Emissions which fall in the restricted bands

Test Requirement47 CFR Part 15, Subpart C 15.209 & 15.247(d)Test Method:ANSI C63.10 (2013) Section 6.10.5Limit:Limit:

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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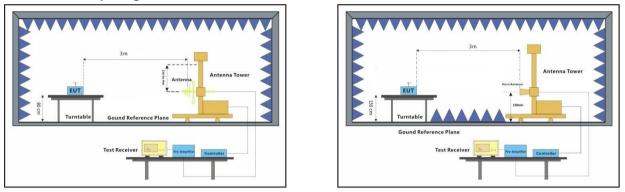
Report No.: KSEM210800138401 Page: 23 of 82

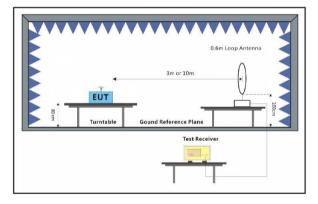
7.7.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 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.

7.7.2 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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).	Frequency	Reading	Correction	Result	Limit	Margin	.00 242		

74.00

30.22

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



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2412.060

118.16

-13.94

104.22

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



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1	1	2500.000		63.09	-	13.	64	4	9.45	74.0	0	-24.55			pea	ak	

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



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	2462.150	114.25	-13.78	100.47	74.00	26.47	I	peak	
	2483.500	60.89	-13.71	47.18	74.00	-26.82	I	peak	
	2489.300	62.92	-13.68	49.24	74.00	-24.76	peak		
	2500.000	59.54	-13.64	45.90	74.00	-28.10	peak		

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



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74.00

27.46

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



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2414,440

115.39

-13.93

101.46

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54.00

37.64

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



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2410.940

105.58

-13.94

91.64

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AVG



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

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2414.160

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1	2390.000	51.38	-14.01	37.37	54.00	-16.63		AVG

54.00

34.93

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



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Mode:a;	Polariz	ation:Ho	rizontal;	Modulati	on:g; l	pandwidth:	20MHz;	Channel:	High	
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1	2468.450	115.49	-13.75	101.74	74.00	27.74	p	eak
2	2483.500	73.98	-13.71	60.27	74.00	-13.73	p	eak
3	2485.400	74.42	-13.70	60.72	74.00	-13.28	p	eak
4	2500.000	69.98	-13.64	56.34	74.00	-17.66	p	eak



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1	20.0 d⊟u∀/m							
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	60							
	0.0	5.00 2480.0	0 2195.00	2510.00 2	525.00 254	0.00 2555.	00 2570.00	2500.00 MHz
lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
	2466.650	106.20	-13.76	92.44	54.00	38.44	A	VG
	2483.500	54.34	-13.71	40.63	54.00	-13.37	A	VG
	2484.350	53.69	-13.70	39.99	54.00	-14.01	A	VG
	2500.000	50.06	-13.64	36.42	54.00	-17.58	AVG	

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





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1	120.	0 dBu∀/m													
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	2	150.0002465	5.00 2480	0.00 249	5.00	2510	0.00 2	525.00	254	0.00 25	55.	00 257	0.00	2500.001	MHz
No.	F	requency (MHz)	Reading (dBuV)	Correct factor(c			esult luV/m)		nit V/m)	Margir (dB)	I		Ren	nark	
1		2464.400	111.65	-13.			7.88	74		23.88			pe		
2	<u> </u>	2483.500	69.09	-13.		L	5.38	74		-18.62	_		pe	ak	
3		2484.500	70.04	-13.	70	5	6.34	74	.00	-17.66	5		pe	ak	

74.00

-25.68

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



4

2500.000

61.96

-13.64

48.32

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1	20.0 d⊟u∀/m							
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	0.0	5.00 2480.0	0 2495.00	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	2464.100	102.26	-13.77	88.49	54.00	34.49	A	\VG
2	2483.500	50.27	-13.71	36.56	54.00	-17.44	A	\VG
3	2485.850	49.99	-13.70	36.29	54.00	-17.71	A	VG
4	2500.000	48.02	-13.64	34.38	54.00	-19.62	A	.VG

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



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1	0.0 23	10.000 2324	1.00 233	8.00	235;	2.00	235	6.00	238	0.00	239	1.00	240	8.00	242	2.00		215	0.00	MHz
D.	23	requency (MHz)	1.00 233 Reading (dBuV)	g	235: Correc	tion	R	6.00 Result BuV/m)		0.00 Lim	it	Ma	210: argin dB)	8.00	212	2.00	Ren		i0.00 I	MHz
	23 Fi	requency	Reading	g	Correc	tion IB/m) 01	R (dE 5	lesult		Lim	it //m))0	Ma (c	argin	8.00	212	2.00	Ren	nark	0.00	MHz

Mode:a; Polarization:Horizontal; Modulation:n; 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)		Remark	
1	2389.100	53.83	-14.01	39.82	54.00	-14.18		AVG	
2	2390.000	54.93	-14.01	40.92	54.00	-13.08		AVG	

54.00

36.18

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



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104.12

-13.94

90.18

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74.00

24.29

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



3

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1	20.0 dBu∀/m							
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	0.0	1.00 2338.0	0 2352.00	2366.00 23	380.00 2 39	1.00 2108	.00 2122.00	2150.00 MHz
D.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
	2388.540	51.15	-14.01	37.14	54.00	-16.86		VG
	2390.000	52.05	-14.01	38.04	54.00	-15.96	A	.VG

54.00

34.27

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



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2410.380

102.21

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No.	F	requer (MHz		Reading (dBuV)		Corre ctor(c			Result BuV/m)	Lin (dBu\			rgin B)		Re	emark	
1		2459.3	00	114.78		-13.			01.00		74.	00	27	.00		p	eak	
2		2483.5		74.29		-13.			60.58		74.			3.42		p	eak	
3	<u> </u>	2487.9		76.95		-13.			53.26		74.).74		p	eak	
4		2500.0	00	66.09		-13.	64	4	52.45		74.	00	-21	1.55		p	eak	

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



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	2150.000 2165	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)	Rer	nark
1	2464.700	105.41	-13.77	91.64	54.00	37.64	A	/G
2	2483.500	55.10	-13.71	41.39	54.00	-12.61	A	/G
3	2484.650	53.68	-13.70	39.98	54.00	-14.02	A	/G
4	2500.000	49.92	-13.64	36.28	54.00	-17.72	A	/G

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



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 KSEM210800138401

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	0.0	5.00 2480.0	10 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)	Rei	mark
1	2465.150	112.63	-13.76	98.87	74.00	24.87	pe	eak
2	2483.500	70.83	-13.71	57.12	74.00	-16.88	pe	eak
3	2484.650	71.78	-13.70	58.08	74.00	-15.92	pe	eak
4	2500.000	65.42	-13.64	51.78	74.00	-22.22	pe	eak

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



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	2450.0002465	5.00 2 1 80.0	0 2495.00	2510.00 2	525.00 254	0.00 2555	.00 2570.00	2600.00 MHz
lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
	2468.750	102.48	-13.75	88.73	54.00	34.73	A	VG
	2483.500	51.68	-13.71	37.97	54.00	-16.03	A	VG
	2484.950	50.67	-13.70	36.97	54.00	-17.03	A	VG
L	2500.000	48.46	-13.64	34.82	54.00	-19.18	A	VG

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



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		310. 0 002 3 2	1.00 233	8.00 23	52.00	236	6.00 á	2380	.00	239	1.00	2108	B.00	212	2.00	2150.0) MHz
	23	requency (MHz)	1.00 233 Reading (dBuV)	g Corre	s52.00 ection (dB/m)	R	6.00 a esult BuV/m)		Lin		1.00 Mar (dE	gin	B.00	212		2150.0 mark) MHz
	23 F	requency	Reading	g Corre factor	ection	R (dE	esult	(d	Lin	nit V/m)	Mar	gin 3)	8.00	212	Rer		D MHz
0.	23 Fi	requency (MHz)	Reading (dBuV)	g Corre factor -14	ection (dB/m)	R (dE	esult 8uV/m)	(d	Lin IBu'	nit V/m) 00	Mar (dE	gin 3) .75	B.00	212	Rer	mark	

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



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No.	F	requency (MHz)	Reading (dBuV)	Corre			esult BuV/m)	(Limi dBuV		Mar (dt	gin 3)			Rem	ark	
1		2388.540	59.11	-14.	01		5.10		54.0			90			AV		
2		2390.000	59.47	-14.			5.46		54.0			54			AV		
3	2	2434.740	101.57	-13.	86	8	7.71		54.0	0	33.	71			AV	G	

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



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	2	310.0002324	1.00 2338.0	10 2352.00	2356.00 2	380.00 239	1.00 2408	.00 2422.00	2150.00 MHz
No.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	F	Remark
1		2385.880	72.73	-14.02	58.71	74.00	-15.29		peak
2		2390.000	71.23	-14.01	57.22	74.00	-16.78		peak
3		2417.520	109.91	-13.93	95.98	74.00	21.98		peak

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



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0.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
	2388.540	55.60	-14.01	41.59	54.00	-12.41		AVG
	2390.000	56.19	-14.01	42.18	54.00	-11.82		AVG

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



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	0.0 21	130.000 2417	<b>0</b>	2454	.00 248	  .00	2198	).00 2!	515.00 2	5 32.	.00 2549	9.00 25	66.00	2500.00	 MHz
0.	F	requency (MHz)		ading BuV)	Correct factor(c			esult uV/m)	Limit (dBuV/n	1)	Margin (dB)		Rer	mark	
	2	2456.180	<u> </u>	2.00	-13.		<u> </u>	8.21	74.00		24.21		pe	ak	
		2483.500		4.18	-13.		_	0.47	74.00		-13.53		pe	ak	
	2	2484.910	76	5.71	-13.	70	6	3.01	74.00		-10.99		pe	ak	
	2	2500.000	67	7.67	-13.	64	5	4.03	74.00		-19.97		pe	ak	

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



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-	20.0 dBuY/m							mit1: — mit2: —
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	0.0	7.00 2454.0	10 2181.00	2498.00 2	515.00 253	2.00 2549.	.00 2566.00	2500.00 MHz
D.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result	Limit (dBuV/m)	Margin (dB)		emark
	2455.330	102.06	-13.79	88.27	54.00	34.27	4	VG
	2483.500	55.91	-13.71	42.20	54.00	-11.80	A	VG
$\neg$	2484.570	55.72	-13.70	42.02	54.00	-11.98	A	VG
	2500.000	50.15	-13.64	36.51	54.00	-17.49	Α	VG

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



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	2130.000 2117	7.00 2464.1	00 2481.00	2498.00 2	515.00 253	2.00 25:19	.00 2566.00	2500.00 MHz
).	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	emark
	2447.680	109.13	-13.82	95.31	74.00	21.31	p	eak
	2483.500	70.90	-13.71	57.19	74.00	-16.81	p	eak
	2484.400	72.63	-13.70	58.93	74.00	-15.07	р	eak
1	2500.000	69.58	-13.64	55.94	74.00	-18.06	p	eak

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



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1	120.0 dBu∀/m							
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	2130.000 211	7.00 2464.0	30 2481.00	2498.00 2	515.00 253	2.00 2519.0	00 2566.00	2500.00 MHz
lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rer	mark
	2453.630	99.35	-13.80	85.55	54.00	31.55		VG
	2483.500	51.70	-13.71	37.99	54.00	-16.01		VG
	2484.910	51.25	-13.70	37.55	54.00	-16.45		VG
ļ	2500.000	48.91	-13.64	35.27	54.00	-18.73	A	VG

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:	

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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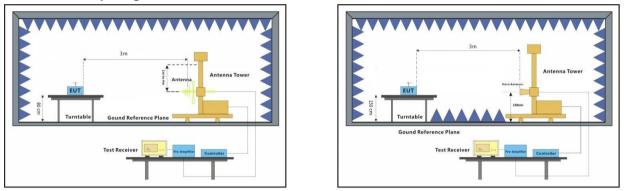
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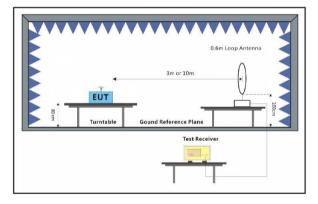
## 7.8.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 mbarTest modea:TX mode_Keep the EUT in continuously transmitting mode with all modulation<br/>types. All data rates for each modulation type have been tested and found the<br/>data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the<br/>worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE<br/>802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).<br/>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.

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#### 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

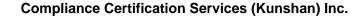
3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB 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.



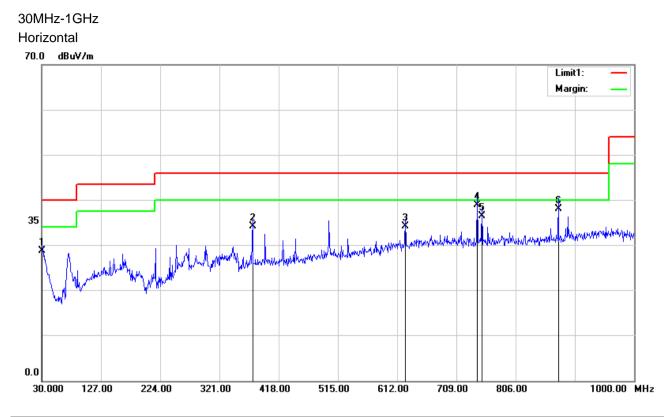
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Test Report Form Version: Rev01





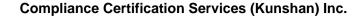
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.0000	2.82	25.93	28.75	40.00	-11.25	100	145	QP
2	375.3200	11.26	22.99	34.25	46.00	-11.75	100	120	QP
3	625.5800	7.44	26.82	34.26	46.00	-11.74	100	0	QP
4	742.9500	11.53	27.48	39.01	46.00	-6.99	100	0	QP
5	750.7100	8.93	27.48	36.41	46.00	-9.59	100	0	QP
6	875.8400	9.76	28.38	38.14	46.00	-7.86	100	339	QP

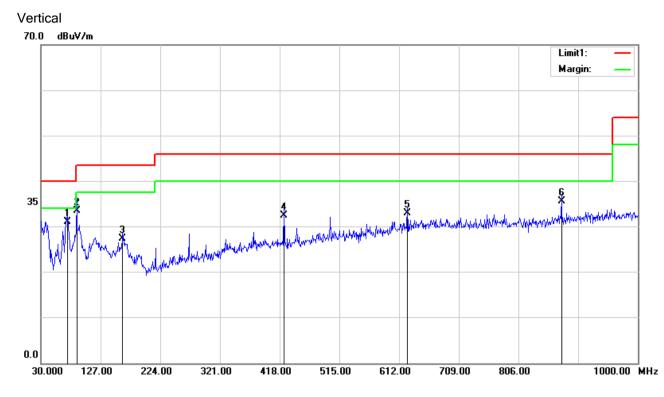
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	72.6800	16.86	14.19	31.05	40.00	-8.95	100	349	QP
2	88.2000	17.10	16.42	33.52	43.50	-9.98	100	69	QP
3	162.8900	8.27	19.14	27.41	43.50	-16.09	100	141	QP
4	424.7900	8.47	23.94	32.41	46.00	-13.59	100	335	QP
5	625.5800	6.23	26.82	33.05	46.00	-12.95	100	35	QP
6	875.8400	7.30	28.38	35.68	46.00	-10.32	100	293	QP



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## Above 1GHz

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

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	(MHz)	(dBuV)	factor(dB/m)			(dBuV/m)	(dB)				
	4824.000	57.06	-8.78	48.	28	74.00	-25.72		pea	ak	
	7236.000	55.19	-5.86	49.	33	74.00	-24.67		pea	ak	
+	9648.000	51.78	-1.31	50.	47	74.00	-23.53		pea	ak	_



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 KSEM210800138401

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		7236.000		55.10		-5.8			9.24	+		74.00			1.76					ak		
	9	9648.000		51.89		-1.3	31	5	60.58	+		74.00		-23	3.42				pe	ak		

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



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1	4	4874.000	57.60		-8.6			8.99			74.00		5.01				pe	ak		
2	1	7311.000	55.03		-5.7	'8	4	9.25			74.00	-24	4.75				pe	ak		
3	9	9748.000	51.57		-1.4	3	5	0.14			74.00	-23	3.86				pe	ak		

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



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		4874.000	57.09	-8.6			8.48		74.00	-25.52		-	ak	
2	1	7311.000	54.87	-5.78	B	- 4	9.09		74.00	-24.91		pe	ak	

74.00

-23.75

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



3

9748.000

51.68

-1.43

50.25

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_		(MHz)	(dBuV)	_	factor(d			BuV/m	)		BuV/m)		B)							
		1924.000 7386.000	56.61 55.37	_	-8.4 -5.6			8.17 9.68			74.00 74.00		.83	<u> </u>			pea pea			

74.00

-23.69

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



3

9848.000

51.58

-1.27

50.31

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1		(MHz) 924.000	57.2		factor(c			8.78	<u> </u>		4.00		<u>5.22</u>				pea	ak		
2		386.000	54.7		-5.6			9.04	+		4.00		.96				pea			
3	9	848.000	51.3	7	-1.2	.7	5	50.10		7	4.00	-23	3.90				pea			

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



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0.	F	requency (MHz)	Readin (dBuV		Correct factor(c			lesult BuV/m)		Lin (dBu)	nit V/m)	Ma (d	rgin B)				Ren	nark		
	4	1824.000	57.34		-8.7			8.56		74.	00	-25	.44				pe	ak		
	1	7236.000	55.61		-5.8	6	4	9.75		74.	00	-24	.25				pe	ak		
	9	9648.000	51.79		-1.3	31	5	0.48		74.	00	-23	8.52				pe	ak		

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



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Report No.: KSEM210800138401 Page: 65 of 82

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		4824.000	57.45	-8.			8.67		74.0			.33				peak		
2		7236.000	55.16	-5.		4	9.30		74.0	0		.70				peak	c i i	
}	9	9648.000	52.15	-1.3	31	5	50.84		74.0	0	-23	.16				peak	c	

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



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	4	4874.000	57.07	-8.61	48.4	5	74.00	-25.54		pea	ak	
	1	7311.000	55.68	-5.78	49.9	) [ ]	74.00	-24.10		pea	ak	

74.00

-23.27

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



3

9748.000

52.16

-1.43

50.73

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D.	Fi	requency	Reading	Correcti		Result	Limit	Margin		Remark	
		(MHz)	(dBuV)	factor(dB		IBuV/m)	(dBuV/m)	(dB)			
		4874.000	57.35	-8.61		48.74	74.00	-25.26		peak	
	_	7311.000	54.89	-5.78		49.11	74.00	-24.89	1	peak	

74.00

-23.55

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



3

9748.000

51.88

-1.43

50.45

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51.63

-1.27

50.36

74.00

-23.64

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	4	924.000	56.88	-8	.44	4	8.44		74	4.00	-25	.56				pea	ak	
	7	386.000	55.22	-5	.69	4	9.53		74	4.00	-24	.47				pea	ak	

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



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9848,000

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1		4924.000	56.92	-8.44		48.48		74.00	-25.52			· ·	ak	
2	7386.000 55.43			-5.69	4	19.74	1	74.00	-24.26			pe	ak	

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-23.48

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



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1		4824.000	57.05		78	4	8.27		74.00	-25	5.73			F	beak	
2		7236.000	55.00	-5	86	4	9.14		74.00	-24	.86			F	beak	
3		9648.000	51.70	-1.	31	5	0.39		74.00	-23	3.61			F	beak	

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



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		(MHz)	(dBuV)	factor(o	lB/m)		BuV/m)	(	dBuV/m)	(dB)						
1		4824.000	57.58	-8.7			8.80		74.00	-25.20		peak				
2		7236.000	55.49	-5.8	36	4	9.63		74.00	-24.37		peak				

74.00

-23.22

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



3

9648.000

52.09

-1.31

50.78

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		(MHz)	(dBuV)	factor(dB/	/m) (dE	uV/m)		BuV/m)	(dB)								
1	<u> </u>	4874.000	57.34	-8.61		8.73		74.00	-25.27		pe	ak					
2	7311.000 55.37			-5.78	4	9.59		74.00	-24.41		pe	ak					

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



3

9748.000

51.65

-1.43

50.22

74.00

-23.78

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 Report No.:
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No.	F	requency	Reading	Correct		Result	Limit	Margin		Rem	ark						
		(MHz)	(dBuV)	factor(dE		(dBuV/m)	(dBuV/m)	(dB)									
1		4874.000	57.13	-8.61		48.52	74.00	-25.48		pea							
2		7311.000	55.08	-5.78	3	49.30	74.00	-24.70		pea	ik						

74.00

-23.51

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



3

9748.000

51.92

-1.43

50.49

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).	F	requency (MHz)		ading BuV)		Correct factor(c			lesult BuV/m)			Limit 3uV/m	)	Mar (dE	gin 3)				Ren	nark		
	4	4924.000		7.00		-8.4			8.56			74.00	'	-25					pe	ak		
Τ	1	7386.000	5	4.97		-5.6	i9	4	9.28		7	74.00		-24	.72				pe	ak		
	9	9848.000	5	1.91		-1.2	27	5	0.64		7	74.00		-23	36				pe	ak		

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



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1	4	4924.000	56.63		-8.4			8.19			74.00		.81				pe	ak		
2	1	7386.000	55.46		-5.6	i9	- 4	9.77		7	74.00	-24	.23				pe	ak		
3	9	9848.000	51.35		-1.2	7	5	50.08		7	74.00	-23	.92				pe	ak		

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



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	4	1844.000	57.17	-8.71		8.46	74.00	-25.54		peak	
	1	7266.000	55.47	-5.83	4	9.64	74.00	-24.36		peak	

74.00

-23.77

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



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		4844.000	57.69		-8.7			8.98		74.00		.02	<u> </u>			pea		
		7266.000	55.04		-5.8			9.21		74.00	-24					pea		
		9688.000	51.91		-1.3	6	5	0.55		74.00	-23	.45				pea	ak	

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



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	4	4874.000	57.02		-8.6	i1	4	8.41		74	.00	-25	5.59				pe	ak		
		7311.000	55.12		-5.7	'8	4	9.34		74	.00	-24	4.66				pe	ak		
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle





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	4	1874.000	57.42	-8.		4	8.81		74.00	-25.19				pea	k	
	7	7311.000	54.91	-5.	78	4	9.13		74.00	-24.87				pea	k	

74.00

-23.25

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



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9748.000

52.18

-1.43

50.75

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Report No.: KSEM210800138401 Page: 80 of 82

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1		04.000	56.76	-8.			8.25	74.0		-25.75	+		pe	ak	

74.00

74.00

-24.19

-23.81

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



2

3

7356.000

9808.000

55.54

51.66

-5.73

-1.47

49.81

50.19

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		4904.000	56.85	-8.5			8.34	_	74.00		.66			peak	
		7356.000	55.60	-5.7			9.87		74.00		.13			peak	
		9808.000	52.12	-1.4	7	5	60.65		74.00	-23	.35			peak	

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





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# 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

## 9 EUT Constructional Details

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

- End of the Report -



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