

SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen Branch



 Report No.:
 HKEM191100104101

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TEST REPORT

Application No.:	HKEM1911001141AT
Applicant:	VTECH TELECOMMUNICATIONS LTD.
Address of Applicant:	23/F.,BLOCK 1, TAI PING INDUSTRIAL CENTRE,NO. 57 TING KOK ROAD,TAI PO,N.T.,HONG KONG
Equipment Under Test (EUT)):
EUT Name:	Full Color Pan and Tilt Video Monitor
Model No.:	VM5263 BU, VM5263-2 BU, VM5263-ab BU, VM5463 BU, VM5463-2 BU, VM5463-ab BU ♣
♣	Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
FCC ID:	EW780-2023-00
IC:	1135B-80202300
HVIN:	35-201303BU
Standard(s):	CFR 47 FCC Part 15, Subpart C, 2019 RSS-247 Issue 2: May 2017 RSS-Gen: Issue 5 Amdt 2019
Date of Receipt:	2019-11-26
Date of Test:	2019-11-26 to 2019-12-12
Date of Issue:	2019-12-12
Test Result:	PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Keny. Ku

Keny Xu EMC Laboratory Manager



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	Revision Record				
Version	Chapter	Date	Modifier	Remark	
00		2019-12-12		Original	

Authorized for issue by:		
Tested by:	Voncent Chen	
	Vincent Chen /Project Engineer	
Checked by:	Evic Fu	
	Eric Fu /Reviewer	-



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2 Test Summary

Test	Test Requirement	Test method	Result	
	FCC PART 15 C	FCC PART 15 C		
Antenna Requirement	section 15.247 (c) and Section 15.203	,		
20dB Bandwidth	FCC PART 15 C section 15.247 (a)(1)	ANSI C63.10: Clause 6.9.1	^{JSE} PASS	
Carrier Frequencies Separation	FCC PART 15 C section 15.247(a)(1)	ANSI C63.10: Clause 7.8.2	PASS	
Hopping Channel Number	FCC PART 15 C section 15.247(a)(1)(iii)	ANSI C63.10: Clause 7.8.3	PASS	
Dwell Time	FCC PART 15 C section 15.247(a)(1)(iii)	ANSI C63.10: Clause 7.8.4	PASS	
Pseudorandom Frequency Hopping Sequence	FCC PART 15 C section 15.247(a)(1)	ANSI C63.10: Clause 7.7.5	PASS	
Maximum Peak Output Power	ut Power FCC PART 15 C ANSI C section 15.247(b)(1)		PASS	
Conducted Emissions at AC Power Line (150kHz-30MHz)	FCC PART 15 C 15.207	ANSI C63.10 (2013) Section 6.2	PASS	
Conducted Spurious Emission	FCC PART 15 C section 15.247(d)	ANSI C63.10: Clause 7.8.8		
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	ANSI C63.10 (2013) Section 6.10.5	PASS	
Radiated Spurious Emission	FCC PART 15 C section 15.247(d)	ANSI C63.10 (2013) Section 6.4,6.5,6.6	PASS	
Band Edges Measurement	FCC PART 15 C section 15.247 (d) &15.205	ANSI C63.10: clause 7.8.6	PASS	
Antenna Requirement	RSS-Gen Section 8.3	N/A	PASS	
Pseudorandom Frequency Hopping Sequence	RSS-247 Section 5.1(a)	N/A	PASS	
99% Bandwidth	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	PASS	
Conducted Peak Output Power	RSS-247 Section 5.4(b)	ANSI C63.10 (2013) Section 7.8.5	PASS	



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20dB Bandwidth	RSS-247 Section 5.1(a)	ANSI C63.10 Section 6.9.2	PASS
Carrier Frequencies Separation	RSS-247 Section 5.1(b)	ANSI C63.10 (2013) Section 7.8.2	PASS
Hopping Channel Number	RSS-247 Section 5.1(d)	ANSI C63.10 (2013) Section 7.8.3	PASS
Dwell Time	RSS-247 Section 5.1(d)	ANSI C63.10 (2013) Section 7.8.4	PASS
Conducted Band Edges Measurement	RSS-247 Section 5.5	ANSI C63.10 (2013) Section7.8.6	PASS
Conducted Emissions at AC Power Line (150kHz-30MHz)	RSS-Gen Section 8.8	ANSI C63.10 (2013) Section 6.2	PASS
Conducted Spurious Emissions	RSS-247 Section 5.5	ANSI C63.10 (2013) Section 7.8.8	PASS
Radiated Emissions which fall in the restricted bands	RSS-247 Section 3.3 & RSS-Gen Section 8.10	ANSI C63.10 (2013) Section 6.10.5	PASS
Radiated Spurious Emissions	RSS-247 Section 5.5 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4&6.5&6.6	PASS
Frequency stability	RSS-Gen Section 8.11	RSS-Gen Section 6.11	PASS*

*Note: Frequency stability requested in RSS GEN Section 8.1.1 has been complied since the result of band edge can demonstrate.

Declaration of EUT Family Grouping:

Item no.:

VM5263 BU, VM5263-2 BU, VM5263-ab BU, VM5463 BU, VM5463-2 BU, VM5463-ab BU

According to the confirmation from the applicant, the above models are identical in all electrical aspects in relating to electronics/electrical designs, including software & firmware, PCB layout, construction design/physical design/enclosure. The differences are only the color, cosmetic details, trade name, model number. The Baby unit of Model VM5263-ab BU is identical with VM5463-ab BU except for the projector.

Therefore only the model VM5463 BU was tested in this report.



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-			*



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 120 V, 60 Hz
Adapter	Adaptor 1
	AC 100-240V ~ 50/60Hz 200mA to DC 5.0V 1000 mA
	Model no: S006AKU0500100
	Adaptor 2
	AC 100-240V ~ 50/60Hz 150mA to DC 5.0V 1000 mA
	Model no: VT05EUS05100
Function	Monitoring Device
Test Voltage	AC120 V 60 Hz
Operation Frequency:	2405-2475MHz
Channel Numbers:	16
Channel Separation:	≥ 2MHz
Type of Modulation:	Frequency Hopping Spread Spectrum (FHSS)
Sample Type:	Indoor
Antenna Type:	Dipole
Antenna Gain:	0 dBi
Frequency List	

Channel Number	TX Freq (MHz)	Channel Number	TX Freq (MHz)	Channel Number	TX Freq (MHz)
1	2405	12	2428	23	2454
2	2407	13	2430	24	2456
3	2409	14	2433	25	2458.5
4	2411	15	2435	26	2460.5
5	2413	16	2437	27	2462.5
6	2415	17	2439	28	2467
7	2418	18	2441	29	2469
8	2420	19	2444	30	2471



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9	2422	20	2446	31	2473
10	2424	21	2450	32	2475
11	2426	22	2452		

Remark: 1. Operation channel is only 16.

2. Testing Channels are highlighted in **bold**.

4.2 Description of Support Units

The EUT has been tested with corresponding accessories as below: Supplied by client

Description	Manufacturer	Model No.	SN/Certificate NO
UART Test board	N/A	MX3232	N/A
Test Software	MicroRidge System	Version 3.0.0.108	N/A

Supplied by SGS:

Description	Manufacturer	Model No.	SN/Certificate NO
NoteBook (EMC2)	Dell	P75F	N/A



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4.3 Measurement Uncertainty (95% confidence level, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	Conduction emission	± 3.0dB (150kHz to 30MHz)
5	RF conducted power	± 0.75dB
6	RF power density	± 2.84dB
7	Conducted Spurious emissions	± 0.75dB
8	DE Dedicted power	± 4.5dB (Below 1GHz)
0	RF Radiated power	± 4.8dB (Above 1GHz)
9	Dedicted Spurious optication test	± 4.5dB (Below 1GHz)
9	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
10	Temperature test	± 1 ℃
11	Humidity test	± 3%
12	Supply voltages	± 1.5%
13	Time	± 3%

Remark:

The Ulab (lab Uncertainty) is less than Ucispr (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

4.5 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC – Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None



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4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2024-06-12	
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10	
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018-09-25	2020-09-23	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31	
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31	

RF Conducted Test					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2020-09-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2019-04-01	2020-03-31
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-25	2020-09-24
Electric and Magnetic Field Analyzer	Narda	NBM-550/EHP -50F	EMC2143	2018-02-07	2020-02-06
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10



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	Client's instructions, if any. The Company's sole rr transaction from exercising all their rights and obli except in full, without prior written approval of the appearance of this document is unlawful and offende results shown in this test report refer only to the samp Attention: To check the authenticity of testing /ins or email: CN.Doccheck@sgs.com	gations under the to Company. Any una ars may be prosecut le(s) tested and suc	ansaction documen uthorized alteration, ed to the fullest exten sample(s) are retai	ts. This document c , forgery or falsificat ent of the law. Unless ned for 30 days only.	annot be reproduced ion of the content or otherwise stated the
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	中国・深圳・科技园中区M-10栋一号厂房	邮编: 518057	t (86-755) 26012053	f (86–755) 26710594	sgs.china@sgs.com



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EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

Radiated Spurious Emissions						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12	
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11	
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16	
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23	
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31	
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31	



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DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
Chamber		14/7 (OEMOOT OT	2017 00 00	2020 00 01
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-05	2019-09-24	2020-09-23
(20Hz-8.4GHz)	Aglient lechnologies	N9036A	3EIVI004-05	2019-09-24	2020-09-23
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
(26-3000MHz)	E 13-EINDGHEN	51420	3210003-01	2017-00-27	2020-00-20
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31
(0.1-1300MHz)	Aglient lechnologies	0447D	3210003-01	2019-04-01	2020-03-31
Measurement Software	AUDIX	e3	N/A	N/A	N/A
weasurement Soltware	AUDIA	V8.2014-6-27		IN/A	IN/A
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test requirement

FCC Part 15 Subpart C Section 15.247 & 15.203 RSS-Gen Section 8.3



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6.1.2 Conclusion

Standard Requirment:

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.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

15.203 requirement:

For intentional device. According to 15.203. an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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 uses a unique coupling to the intentional radiator and no consideration of replacement. The best case gain of the antenna: 0 dBi.

Photo of antenna 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, RSS-Gen Section 8.8 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 frequ	ency.		

7.1.1 E.U.T. Operation

Operating Environment:

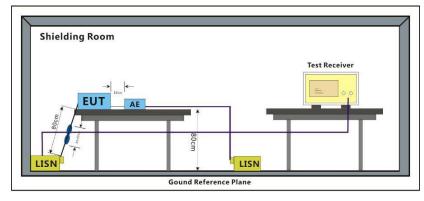
Temperature:	23.0 °C	Humidity:	52 % RH	
--------------	---------	-----------	---------	--

1: TX_Keep the EUT transmitted the continuous modulation test signal at the specific Test mode channel(s).

:

1: TX_Keep the EUT transmitted the continuous modulation test signal at the specific The worst case channel(s). for final test:

7.1.2 Test Setup Diagram





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7.1.3 Measurement 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.



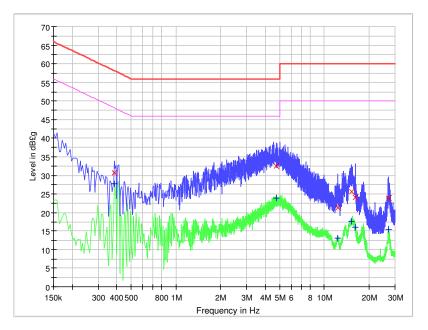
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VT05EUS05100

Live



Frequency	QuasiPeak	Average	QuasiPeak	QuasiPeak	Average	Average
(MHz)	(dBµV)	(dBµV)	Limit	Over Limit	Limit	Over Limit
0.384000	30.7	27.7	58.2	-27.5	48.2	-20.5
4.758000	32.4	23.9	56.0	-23.6	46.0	-22.1
12.390000	21.3	13.1	60.0	-38.7	50.0	-37.0
15.216000	25.7	17.6	60.0	-34.3	50.0	-32.4
16.089000	24.0	16.0	60.0	-36.0	50.0	-34.0
27.127500	23.8	15.4	60.0	-36.2	50.0	-34.6

Level = Read Level + LISN Factor + Cable Loss.

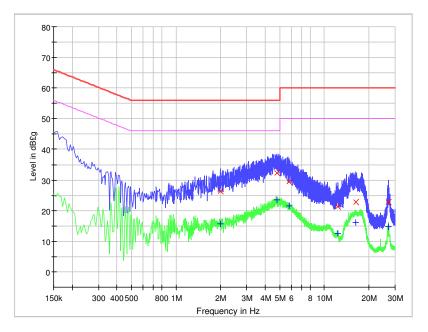


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Mode: VT05EUS05100 Neutral



Frequency	QuasiPeak	Average	QuasiPeak	QuasiPeak	Average	Average
(MHz)	(dBµV)	(dBµV)	Limit	Over Limit	Limit	Over Limit
1.986000	26.3	15.6	56.0	29.7	46.0	30.4
4.798500	32.4	23.6	56.0	23.6	46.0	22.4
5.824500	29.5	21.6	60.0	30.5	50.0	28.4
12.300000	21.3	12.5	60.0	38.7	50.0	37.5
16.251000	22.7	16.2	60.0	37.3	50.0	33.8
26.997000	22.7	14.8	60.0	37.3	50.0	35.2

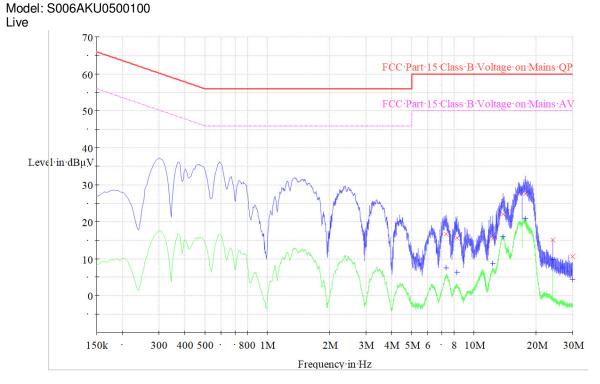
Level = Read Level + LISN Factor + Cable Loss.



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Frequency	QuasiPeak	Average	QuasiPeak	QuasiPeak	Average	Average
(MHz)	(dBµV)	(dBµV)	Limit	Over Limit	Limit	Over Limit
8.290500	15.6	6.3	60.0	-44.4	50.0	-43.7
12.327000	15.5	8.8	60.0	-44.5	50.0	-41.2
13.861500	22.1	16.0	60.0	-37.9	50.0	-34.0
17.776500	27.5	20.9	60.0	-32.5	50.0	-29.1
24.000000	15.0	9.8	60.0	-45.0	50.0	-40.2
7.336500	16.6	7.5	60.0	-43.4	50.0	-42.5

Level = Read Level + LISN Factor + Cable Loss.

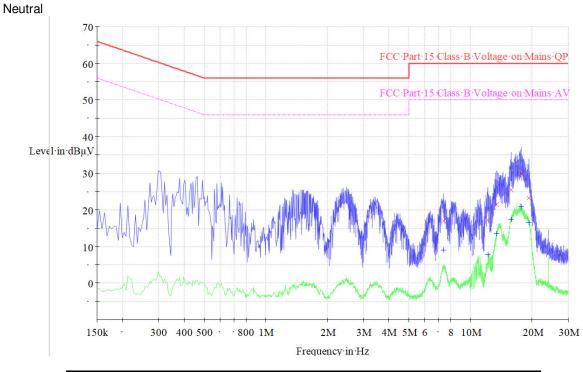


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Model: S006AKU0500100



Frequency	QuasiPeak	Average	QuasiPeak	QuasiPeak	Average	Average
(MHz)	(dBµV)	(dBµV)	Limit	Over Limit	Limit	Over Limit
7.395000	17.0	9.0	60.0	-43.0	50.0	-41.0
12.133500	17.2	7.9	60.0	-42.8	50.0	-42.1
13.416000	21.6	13.5	60.0	-38.4	50.0	-36.5
15.814500	25.5	17.4	60.0	-34.5	50.0	-32.6
17.758500	29.8	20.8	60.0	-30.2	50.0	-29.2
19.347000	23.2	16.5	60.0	-36.8	50.0	-33.5

Level = Read Level + LISN Factor + Cable Loss.



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7.2 Conducted Peak Output Power

Test Requirement	47 CFR Part 15, Subpart C 15.247:2018(b)(1) & 15.247(b)(3), RSS-247
	Section 5.4(b)
Test Method:	ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1
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

7.2.1 E.U.T. Operation

Operating Environment:

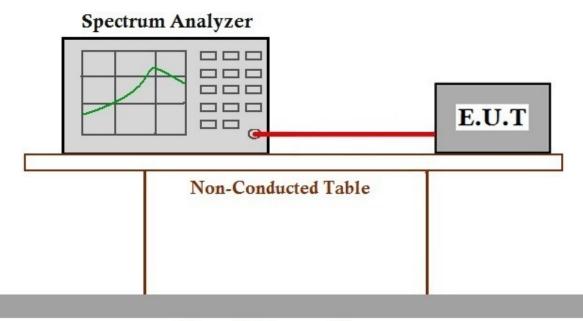
Temperature:21 °CHumidity:51 % RHAtmospheric Pressure:1015 mbarTest mode1:TX_non-Hop mode_Keep the EUT in continuously transmitting with
modulation mode.



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7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Data

The detailed test data see section 9: Appendix



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7.3 20dB Bandwidth

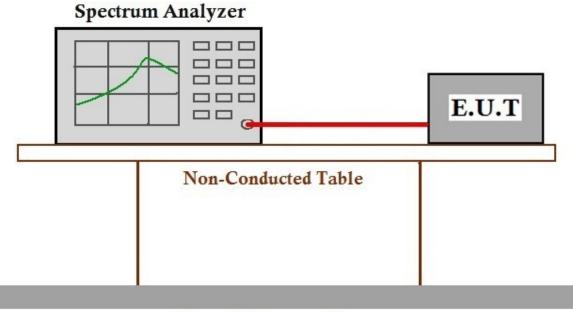
Test Requirement	47 CFR Part 15, Subpart C 15.215, RSS-247 Section 5.1(a)
Test Method:	ANSI C63.10 (2013) Section 6.9

7.3.1 E.U.T. Operation

Operating Environment:

Temperature:	21	°C	Humidity:	51	% RH	Atmospheric Pressure:	1015	mbar		
Test mode	2:TX_non-Hop mode_Keep the EUT in continuously transmitting with									
	modulation mode.									

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Data

The detailed test data see section 9: Appendix



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7.4 Carrier Frequencies Separation

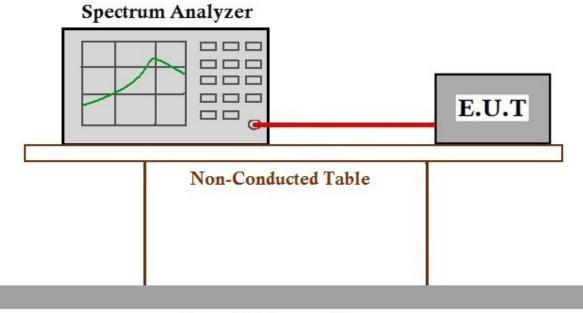
Test Requirement	47 CFR Part 15, Subpart C 15.247:2018a(1), RSS-247 Section 5.1(b)
Test Method:	ANSI C63.10 (2013) Section 7.8.2
Limit:	2/3 of the 20dB bandwidth base on the transmission power is less than
	0.125W

7.4.1 E.U.T. Operation

Operating Environment:

Temperature:21 °CHumidity:51 % RHAtmospheric Pressure:1015 mbarTest mode1:TX_Hop mode_Keep the EUT in frequency hopping with modulation mode.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Data

The detailed test data see section 9: Appendix

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7.5 Hopping Channel Number

Test Requirement47 CFR Part 15, Subpart C 15.247:2018a(1)(iii), RSS-247 Section 5.1(d)Test Method:ANSI C63.10 (2013) Section 7.8.3Limit:Limit:

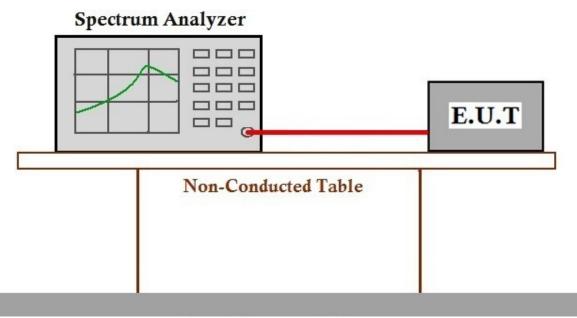
Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

7.5.1 E.U.T. Operation

Operating Environment:

Temperature:21 °CHumidity:51 % RHAtmospheric Pressure:1015 mbarTest mode1:TX_Hop mode_Keep the EUT in frequency hopping with modulation mode.

7.5.2 Test Setup Diagram



Ground Reference Plane



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y.	中国·深圳·科技园中区M-10栋一号厂房 邮编:	518057	t (86-755) 26012053	f (86-755) 26710594	sgs.china@sgs.com	



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7.5.3 Measurement Data

The detailed test data see section 9: Appendix



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7.6 Dwell Time

Test Requirement47 CFR Part 15, Subpart C 15.247:2018a(1)(iii), RSS-247 Section 5.1(d)Test Method:ANSI C63.10 (2013) Section 7.8.4Limit:Limit:

Frequency(MHz)	Limit
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)
	0.4S within a 10S period(20dB bandwidth≥250kHz)
2400-2483.5	0.4S within a period of 0.4S multiplied by the number
	of hopping channels
5725-5850	0.4S within a 30S period

7.6.1 E.U.T. Operation

Operating Environment:

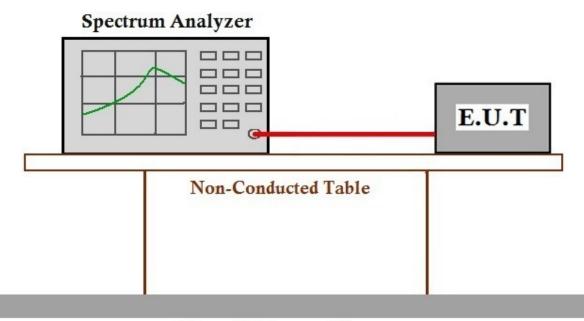
Temperature:21 °CHumidity:51 % RHAtmospheric Pressure:1015 mbarTest mode1:TX_Hop mode_Keep the EUT in frequency hopping with modulation mode.



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7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Data

The detailed test data see section 9: Appendix



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7.7 Conducted Band Edges Measurement

Test Requirement	47 CFR Part 15, Subpart C 15.247:2018(d), RSS-247 Section 5.5
Test Method:	ANSI C63.10 (2013) Section 7.8.6
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)

FCC Part15 C Section 15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section. only spurious emissions are permitted in any of the frequency bands listed below:



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MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			

RSS-Gen Section 8.10 Restricted bands of operation.

Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:

(a) The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, *Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD).*

(b) Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.

(c) Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

Table 7 – Restricted frequency bands* MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2





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156.52475 - 156.52525	9.3 - 9.5
156.7 - 156.9	10.6 - 12.7
162.0125 - 167.17	13.25 - 13.4
167.72 - 173.2	14.47 - 14.5
240 - 285	15.35 - 16.2
322 - 335.4	17.7 - 21.4
399.9 - 410	22.01 - 23.12
608 - 614	23.6 - 24.0
960 - 1427	31.2 - 31.8
1435 - 1626.5	36.43 - 36.5
1645.5 - 1646.5	Above 38.6
1660 - 1710	* Certain frequency bands
1718.8 - 1722.2	listed in table 7 and in bands
2200 - 2300	above 38.6 GHz are designated
2310 - 2390	for licence-exempt applications.
2483.5 - 2500	These frequency bands and the
2655 - 2900	requirements that apply to
3260 - 3267	related devices are set out in
3332 - 3339	the 200 and 300 series of
3345.8 - 3358	RSSs.
3500 - 4400	_
4500 - 5150	
5350 - 5460	
7250 - 7750	
8025 - 8500	
	162.0125 - 167.17 $167.72 - 173.2$ $240 - 285$ $322 - 335.4$ $399.9 - 410$ $608 - 614$ $960 - 1427$ $1435 - 1626.5$ $1645.5 - 1646.5$ $1660 - 1710$ $1718.8 - 1722.2$ $2200 - 2300$ $2310 - 2390$ $2483.5 - 2500$ $2655 - 2900$ $3260 - 3267$ $3332 - 3339$ $3345.8 - 3358$ $3500 - 4400$ $4500 - 5150$ $5350 - 5460$ $7250 - 7750$



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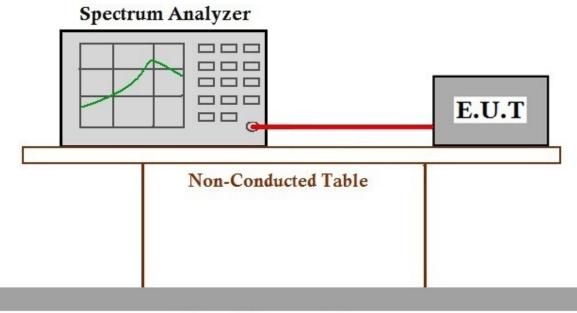
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7.7.1 E.U.T. Operation

Operating Environment:

Temperature:	21 °C	Humidity:	51	% RH	Atmospheric Pressure: 1015	mbar
Test mode	2:TX_non-Hop mode_Keep the EUT in continuously transmitting with					
	modulation m	ode.				

7.7.2 Test Setup Diagram



Ground Reference Plane

7.7.3 Measurement Data

The detailed test data see section 9: Appendix



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7.8 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247:2018(d), RSS-247 Section 5.5
Test Method:	ANSI C63.10 (2013) Section 7.8.8
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)

7.8.1 E.U.T. Operation

Operating Environment:

Temperature:	21 °C	Humidity:	51	% RH	Atmospheric Pressure:	1015 mbar	
Test mode	2:TX_non-Hop mode_Keep the EUT in continuously transmitting with						
	modulation	n mode.					

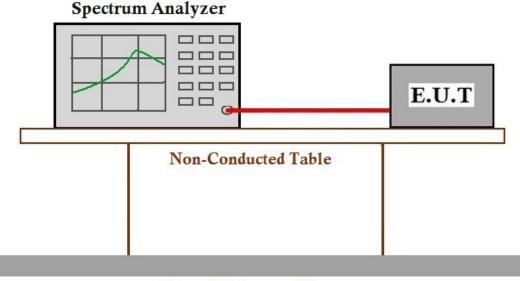


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7.8.2 Test Setup Diagram



Ground Reference Plane

Remark:

Because the typical emission requirements are specified in terms of radiated field strength levels, measurements performed to determine compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for determining compliance to the specified requirements; however antenna-port conducted measurements are also now acceptable to determine compliance.

Antenna-port conducted measurements:

Maximum transmit antenna gain: Refer to Section 4

Ground relfeciton faactor:

6 dB for frequencies \leq 30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies > 1000 MHz

Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

$E = EIRP - 20\log d + 104.8$

Where

E is the electric field strength in $dB\mu V/m$

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

Note: Additional radiated test for cabinet/case emissions refer to Section 7.7

7.8.3 Measurement Data

The detailed test data see section 9: Appendix





7.9 Radiated Emissions which fall in the restricted bands

Test Requirement	47 CFR Part 15, Subpart C 15.209 & 15.247(d), Section 3.3 & RSS-Gen
	Section 8.9
Test Method:	ANSI C63.10 (2013) Section 6.10.5
Measurement Distance: Limit:	3m

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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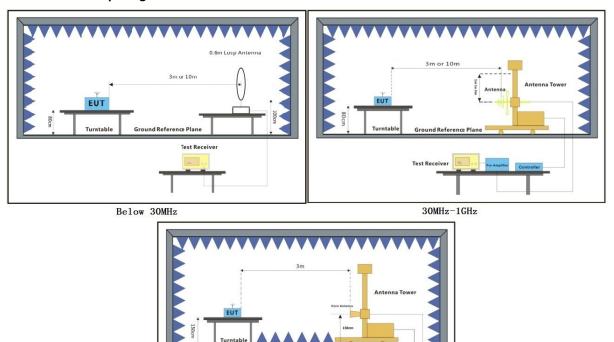
7.9.1 E.U.T. Operation

Operating Environment:

Temperature:	21 °C Hum	lity: 51	% RH	Atmospheric Pressure:	1015	mbar
Pretest these		_Keep the	e EUT in co	ntinuously transmitting v	vith	
modes to find	modulation mode.					
the worst case:						
The worst case	2:TX_non-Hop mode	_Keep the	e EUT in co	ntinuously transmitting v	vith	
for Grand to all	modulation mode.					

for final test:

7.9.2 Test Setup Diagram



Above 1GHz

Gro

nd Reference Plane Test Receiver



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7.9.3 Measurement 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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7.9.4	Measurement	Procedure and data	
7.9.4	Measurement	Procedure and data	

Frequency	Antenna	Emission Level (dBµV/m)		Emission Level (dBµV/m) Limit (dBµV/m)		
(MHz)	Polarization	Peak	Average	Peak	Average	Remark
2483.000	Н	48.4	/	74.0	54.0	Pass
2490.000	Н	47.8	/	74.0	54.0	Pass
2483.500	V	48.4	/	74.0	54.0	Pass
2490.000	V	47.9	/	74.0	54.0	Pass



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7.10 Radiated Spurious Emissions

Test Requirement	Section 3.3 & RSS-Gen Section 8.9
Test Method:	ANSI C63.10 (2013) Section 6.4&6.5&6.6
Measurement Distance:	3m
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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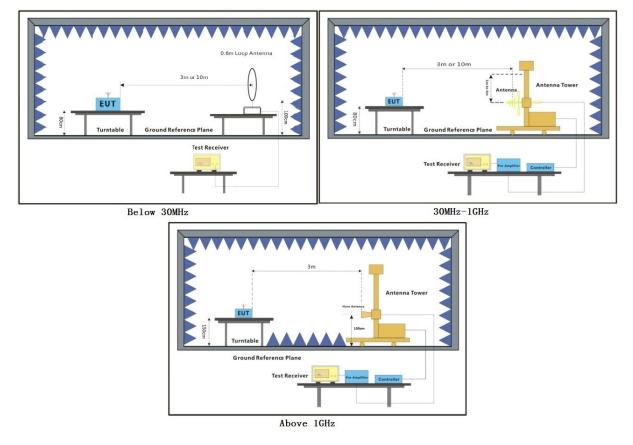


7.10.1 E.U.T. Operation

Operating Environment:

Temperature: $21.1 \, ^{\circ}$ CHumidity: $56.4 \, \% \, RH$ Atmospheric Pressure: $1005 \, \frac{mba}{r}$ Test modeb:TX_non-Hop mode_Keep the EUT in continuously transmitting with modulation mode.

7.10.2 Test Setup Diagram







7.10.3 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.



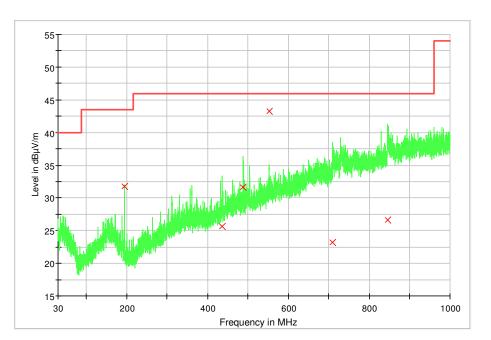
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Radiated emission below 1GHz

Horizontal:



Frequency (MHz)	Pol.	QuasiPeak (dBuV/m)	Limit	Over Limit
194.124000	Н	31.7	43.5	11.8
435.557000	Н	25.6	46.0	20.4
488.228000	Н	31.6	46.0	14.4
551.957000	Н	43.2	46.0	2.8
709.097000	Н	23.2	46.0	22.8
845.091000	Н	26.6	46.0	19.4

1. All readings are Quasi-Peak values.



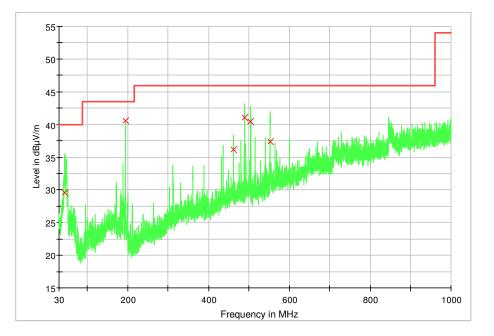
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Vertical:



Frequency (MHz)	Pol.	QuasiPeak (dBuV/m)	Limit	Over Limit
44.259000	v	29.5	40.0	10.5
194.124000	v	40.6	43.5	2.9
462.038000	v	36.2	46.0	9.8
488.519000	v	41.0	46.0	5.0
503.845000	v	40.5	46.0	5.5
552.054000	v	37.3	46.0	8.7

1. All readings are Quasi-Peak values.



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Above 1GHz

Channel:Low

Fraguanav	equency Antenna Emission Level (dBµV/m)		Limit (dBµV/m)			
Frequency (MHz)	Polarization	Peak	Average	Peak	Averag e	Remark
2400.000	Н	46.9	/	74.0	54.0	Pass
2483.500	Н	48.4	/	74.0	54.0	Pass
2390.000	Н	42.9	/	74.0	54.0	Pass
2491.500	Н	47.7	/	74.0	54.0	Pass
2450.000	Н	51.6	/	74.0	54.0	Pass
2400.000	V	52.3	/	74.0	54.0	Pass
2483.500	V	46.9	/	74.0	54.0	Pass
2310.000	V	48.4	/	74.0	54.0	Pass
2500.000	V	42.9	/	74.0	54.0	Pass
3000.000	V	46.9	/	74.0	54.0	Pass



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Channel:Middle

Frequency	Antenna	Emission Le	vel (dBµV/m)	Limit (dl	3μV/m)	
(MHz)	Polarization	Peak	Average	Peak	Averag e	Remark
3000.000	Н	27.4	/	74.0	54.0	Pass
3836.578	Н	34.1	/	74.0	54.0	Pass
4857.653	Н	37.1	/	74.0	54.0	Pass
5654.323	Н	39.8	/	74.0	54.0	Pass
3000.000	V	27.4	/	74.0	54.0	Pass
4234.237	V	35.6	/	74.0	54.0	Pass
5925.650	V	39.2	/	74.0	54.0	Pass
6268.508	V	41.4	/	74.0	54.0	Pass



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Channel: High

Frequency	equency Antenna Emission Level (dBµV/m)		Limit (dBµV/m)			
(MHz)	Polarization	Peak	Average	Peak	Averag e	Remark
3000.000	Н	27.4	/	74.0	54.0	Pass
4642.558	Н	36.9	/	74.0	54.0	Pass
5123.447	Н	39.7	/	74.0	54.0	Pass
3874.424	Н	34.8	/	74.0	54.0	Pass
3000.000	V	27.4	/	74.0	54.0	Pass
3579.532	V	34.4	/	74.0	54.0	Pass
4247.843	V	35.7	/	74.0	54.0	Pass
5998.277	V	39.5	/	74.0	54.0	Pass



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7.11 99% Bandwidth

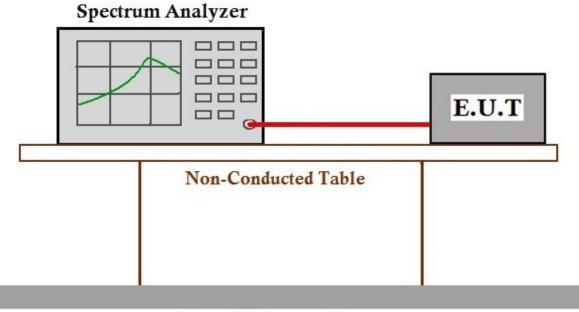
Test Requirement	RSS-Gen Section 6.6
Test Method:	ANSI C63.10 Section 6.9.3

7.11.1 E.U.T. Operation

Operating Environment:

Temperature:	21	°C	Humidity:	51	% RH	Atmospheric Pressure:	1015	mbar
Test mode		X_non-Hop dulation mo	. –	ep the	e EUT in co	ntinuously transmitting w	<i>i</i> ith	
	mo	uulalion m	Jue.					

7.11.2 Test Setup Diagram



Ground Reference Plane

7.11.3 Measurement Procedure and Data

The detailed test data see section 9: Appendix





7.12 Pseudorandom Frequency Hopping Sequence

7.12.1 Standard requirement

15.247(a)(1) requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

RSS-247 Section 5.1(a)

The bandwidth of a frequency hopping channel is the 20 dB emission bandwidth, measured with the hopping stopped. The system's radio frequency (RF) bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hopset. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.



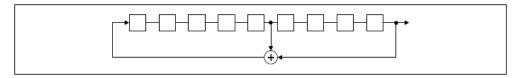
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7.12.2 EUT Pseudorandom Frequency Hopping Sequence

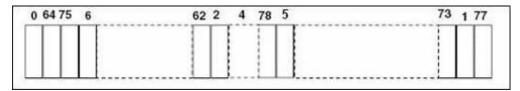
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 2⁹ -1 = 511 bits
- · Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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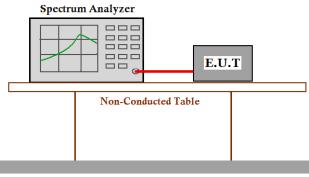
7.13 Occupied Bandwidth

Test Requirement: RSS-Gen Section 6.7

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

- Test Method: ANSI C63.10 Section 6.9.3
- Test Status:Pre-test the EUT in continuous transmitting mode at the lowest
(902.250MHz), middle (915.250 MHz) and highest (927.750MHz) channel. to
find antenna 1 and air speed 224kBaud is the worst-case mode.
Only worst-case data is shown on this report

Test Configuration:



Ground Reference Plane

Test Procedure:

The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.

The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.



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Step 1) through step 3) might require iteration to adjust within the specified range.

Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used. Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

Test result:

The detailed test data see section 9: Appendix



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8 Photographs

8.1 Radiated Spurious Emission Test Setup

Remark: Photos refer to Appendix: Setup Photo



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8.2 EUT Constructional Details

Remark: Photos refer to Appendix: External Photo



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9 Appendix

Test Data

Peak output power (Sweep)

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2405.000000	16.1	21.0	PASS
2439.000000	15.6	21.0	PASS
2475.000000	15.0	21.0	PASS

Att	30 dE	SWT 😑	5 ms 🧉	VBW 10 N	4Hz Mode	Auto Swee	p		
∋1Pk Max									
					M	1[1]		2.4	16.13 dBr 042950 GH
50 dBm								2.1	12900 01
40 dBm									
30 dBm									-
	01 20.970	dB me							
20 dBm - 0	/1 20.9/0			Mi					
10 dBm									
	-							-	
0 dBm	and a start of the							the second	
The production of the second									mean
-10 dBm									-
-20 dBm									1
-30 dBm									
-SU UBIII									



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Ref Level 60.0		t 40.00 dB 🖷						
Att	30 dB 🖷 SWT	5 ms 🧉	VBW 10 M	1Hz Mode	a Auto Swee	p		
1Pk Max								
				N	11[1]			15.56 dBi 397600 GH
50 dBm					1		2.43	397600 GF
30 UBIII								
10.10								
40 dBm								
30 dBm								
20 dBm D1 2	0.970 dBm			M1				
10 dBm		7						
	sum and						~	
0 dBm							- they	Anteren
www.								andrewing
-10 dBm								-
-20 dBm								
-30 dBm								

Att	50.00 dBm 30 dB	SWT	40.00 dB 👄 5 ms 👄	RBW 3 N VBW 10 N		Auto Swee	n		
1Pk Max					ind intotatio	Hate eneo	r		
					М	1[1]		2.47	14.96 dBi 43310 GH
50 dBm									
40 dBm									
30 dBm									
2U dBm D	L 20.970 d	Bm		M1					
10 dBm									
) dBm		and the second sec						- And -	
nonalingener								-~~	manne
-10 dBm									
20 dBm									
30 dBm									

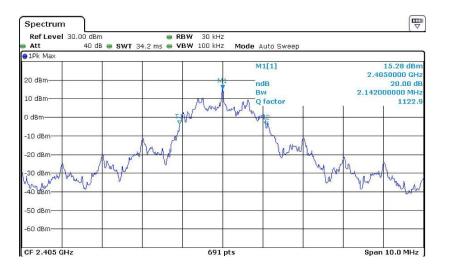


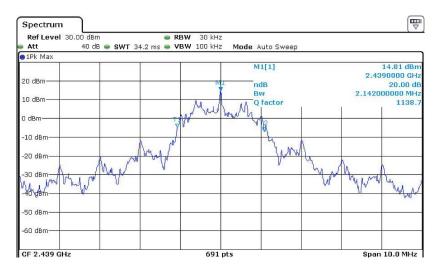
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DUT Frequency (MHz)	Bandwidth (MHz)	Limit (MHz)	Result
2405.000000	2.14		PASS
2439.000000	2.14		PASS
2475.000000	2.14		PASS





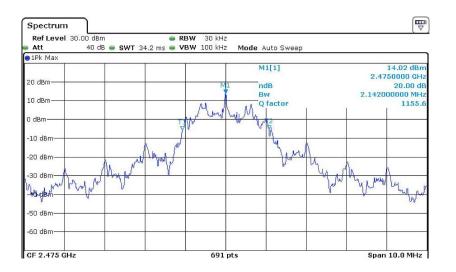






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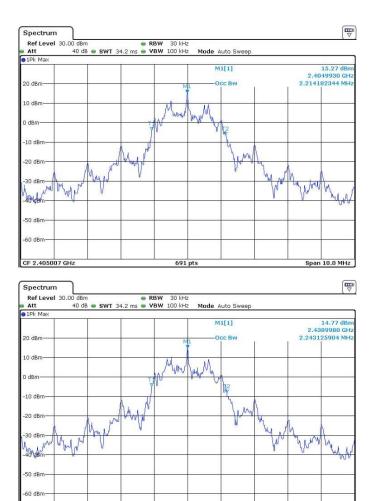


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Occupied Channel Bandwidth 99%

DUT Frequency (MHz)	Bandwidth (MHz)	Limit (MHz)	Result
2405.000000	2.21		PASS
2439.000000	2.24		PASS
2475.000000	2.21		PASS



691 pts



CF 2.439 GHz

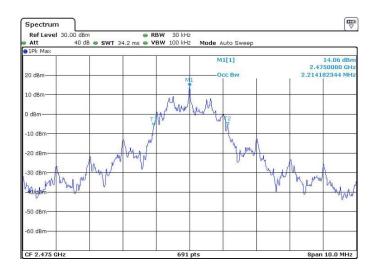
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Span 10.0 MHz



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Carrier Frequency Separation

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit (MHz)	Result
2407.000000	2.004	1.428	PASS

Ref Level 30.00 dBm Att 40 dB	OWT 07 0	RBW 50 kHz VBW 50 kHz	Mode Auto FFT	
1Pk Max	SWT 37.9 µs	VBW 50 KHZ	Mode Auto FFT	
20 dBm			D1[1] M1[1] D1	-0.10 dt 2.00430 MH 16.65 dBn 2.40700140 GH
10 dBm	mallen	m	manhan	mandan
) dBm				
-10 dBm				
-20 dBm				
-30 dBm				
40 dBm		0		
50 dBm				
-60 dBm				



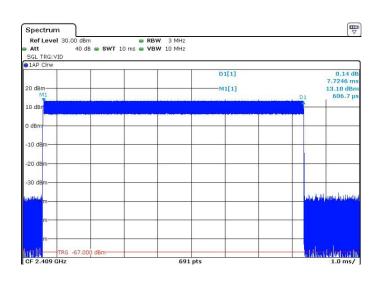
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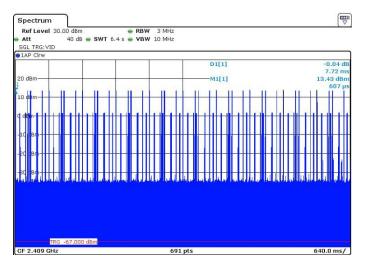


Dwell Time

Channe (MHz)	Width of Burst (ms)	Number of Burst(s)	Active Channels	Measurem ent Time (s)	Dwell Time (ms)	Limit (ms)	Result
2409	7.72	42	16	6.4	324.2	⊴400	Pass

*Remark: the channel shown is the worst case.





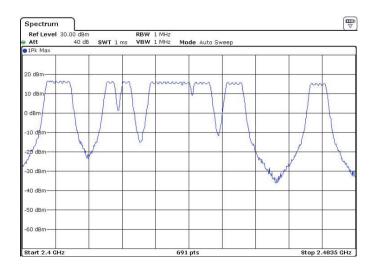


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Hopping Frequencies

Channels	Limit Min	Result
16	15	PASS





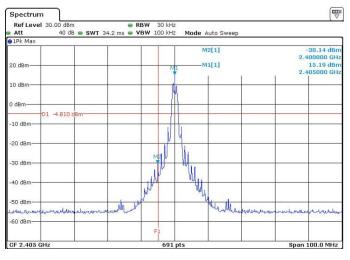
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Conducted Band Edge Measurement

Non-hopping mode

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2400.000000	-30.14	-4.81	-25.33	PASS
2483.500000	-47.56	-5.97	-41.59	PASS



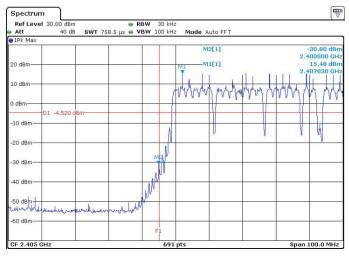
1Pk Max		z Mode Auto Sweep	
20 dBm		M2[1] M1[1]	-47.56 dBn 2.483500 GH: 14.03 dBn
20.0011	1		2.475000 GH
10 dBm		Ca	
0 dBm		N	
-10 dBm			
-20 dBm		Ų.	
-30 dBm-		M.	
-40 dBm-	, IM	<u></u>	
	, Juliuluk	Well	
-50 dBm	ad a fall the will be a light	the aller	www.warmanonandruman
-60 dBm			



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	ŀ	lopping mode		
Frequency	Level	Limit	Margin	Booult
(MHz)	(dBm)	(dBm)	(dB)	Result
2400.000000	-30.80	-4.52	-26.28	PASS
2483.500000	-53.87	-5.87	-48.00	PASS



Att 40	ab 3991 730.3	µs 🖷 VBW	100 KHZ MUU	e Auto FFT			
20 dBm		M1		M2[1] —M1[1]		2.48	53.87 dBn 33500 GH: 14.13 dBn 50530 GH:
10 dBm					+ +		
way way h	m m	MAM M	111				
D dBm							
-10 dBm	0 dBm						
-10 080	A da	M	,				
20 dBm							
	Ψ		M.				
-30 dBm			1.				
-40 dBm			L L				
NO USIN			WW.				
-50 dBm				Mag Elevation w		pushallo	N 2
				anal and m	wanter	whend	Internation



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Conducted spurious emission

Lowest Channel

Ref Level -10.00 dBm RBW 100 kHz Att 20 dB SWT 23.7 ms VBW 300 kHz Mode Auto Sweep SGL Count 3/3 91Pk Max	Spectrum				
SGL Count 3/3 • IPk Max -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -60 dBm -70 dBm -90 dBm	Ref Level -10.00 dBm	👄 RB	W 100 kHz		(•)
SGL Count 3/3 •1Pk Max -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm		SWT 23.7 ms 👄 VE	W 300 kHz Mode /	Auto Sweep	
-20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -60 dBm -70 dBm					
-30 dBm -40 dBm -50 dBm -50 dBm -60 dBm -70 dBm -70 dBm -80 dBm -80 dBm -80 dBm -80 dBm -90 dBm -90 dBm	●1Pk Max	N	1000		
-30 dBm -40 dBm -50 dBm -50 dBm -60 dBm -60 dBm -70 dBm -80 dBm -90					
-30 dBm -40 dBm -50 dBm -50 dBm -60 dBm -60 dBm -70 dBm -80 dBm -90	00 40-				
-40 dBm -50 dBm -60 dBm -70 dBm -90 dBm -90 dBm	-20 dBm				
-40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm	100000-0000-0				
-50 dBm -60 dBm -20 dBm -90 dBm	-30 dBm				
-50 dBm -60 dBm -90 dBm					
-60 dBm -70 dBm -80 dBm -90 dBm	-40 dBm				MA
-60 dBm					
-70 dBm	-50 dBm				
-70 dBm					L. P. T. M.M. J
-80 dBm	-60 dBm	1111			I AN WYINY
-80 dBm		MM		1 AM	10 IV
-80 dBm	-70 dard - Alan Al	W L		1V V	r •
-90 dBm	where we we we			mon la	
-90 dBm	90 dBm				
	-ou ubili				
-100 d8m	-90 gBW				
-100 dBm					
	-100 dBm				
CF 1.215 GHz 238 pts Span 2.37 GHz	CE 1 215 GHz		238 nts		Snan 2 37 GHz

	0.00 dBm			100 kHz					
Att SGL Count	30 dB	SWT 236	ms 🖷 VBW	300 kHz	Mode Auto	o Sweep			
1Pk Max	. 3/3								
-10 dBm									
-20 dBm									
-30 dBm				<u>8</u>					
40 dBm									
50 dBm							a hak		
60'dBm	Nonmarkey	l-kanenaria ke	والمصارية المريدة المريدة	un Marine Marine	proved at the strength of the	richarderwa	Warner Jurish	attionericalities	which a substants
70 dBm—									
80 dBm—									
-90 dBm									



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Middle Channel

Ref Level -1		23.7 ms VE	W 100 kHz					
SGL Count 3/3		23.7 ms 🖝 🕶	W JUU KHZ	Mode A	uto Sweep			
1Pk Max								
20 dBm								
30 dBm								
40 dBm								u
50 dBm	T						/ [*]	MM. AN
50 dBm	. M					M	MM.	(*
	man w	-	· ·····	mm	mm	wo		
30 dBm								
90 dBm								
LOO dBm								

Ref Level 0.00			V 100 kHz		1.01			
Att 3 GL Count 3/3	30 dB SWT 2	36 ms 👄 VBN	V 300 kHz	Mode Auto	o Sweep			
1Pk Max								
LO dBm								
20 dBm								
80 dBm		-						
10 dBm								
50 dBm						Alter		
a Jahren Ungerk	installed and a strategies	and a salaharding	-	mather with a weather the	Manual / Manual	Marrie Marth	الإلماعي المحلومات	and the set of the set
10 dBm								
70 dBm								
30 dBm								
0 dBm								



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Highest Channel

Ref Level -10.00 dBn	n	RBW 100 kHz				(-
Att 20 dE	3 SWT 23.7 ms	VBW 300 kHz	Mode Auto Sweep			
SGL Count 3/3 1Pk Max						
20 dBm-						
30 dBm						
40 dBm						
						8
50 dBm					A	Ma 1
					10	- 1 N M
60 dBm	ul	-			lacht	
A. A	MIL.			/M	M.A.	
ZQ.dem	Mar Mulan	man	mmun	~~~		
80 dBm						
SO UBIN						
90 dBm						
100 dBm		-				

	0.00 dBm			100 kHz					
Att SGL Count	30 dB	SWT 236	ms 👄 VBW	300 kHz	Mode Auto	Sweep			
1Pk Max	3/3								
-10 dBm									
20 dBm									
-30 dBm									
-40 dBm									
50 dBm									<u> </u>
-	Law Marsh	Animations	الجربا فالاعتام ومالط عام	Nurkurkkensister	enderth Without he	manut much	Marana Marah	oninghusture	فبهاليا الريحانيد في
70 dBm									
80 dBm									
90 dBm									<u> </u>

End of Report



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