

0659



FCC Radio Test Report

FCC ID: XSG865697

Report No. : BTL-FCCP-2-2201T051

Equipment : control pad

Model Name : BM-RC015-xx

Brand Name : VELUX Touch

Applicant : VELUX America Inc.

Address : PO Box 5001, Greenwood, SC 29648-5001, Greenwood, South Carolina,

United States, 29648

Manufacturer : TAIWAN GREEN POINT ENTERPRISES CO LTD JABIL DESIGN

SERVICES BRANCH

Address: 7F., No. 413, RuiGuang Rd,

Neihu District, TAIPEI 11492, TAIWAN

Factory : Jabil Circuit Ukraine LLC

Address : KONTSIVSKA ST 40, ROZIVKA VILLAGE,

UZHGOROD DISTRICT, ZAKARPATSKA OBLAST, UZHGOROD 89424, UKRAINE

Radio Function : Short Range Devices

FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart C (15.249)

Measurement : ANSI C63.10-2013

Procedure(s)

Date of Receipt : 2022/1/17

Date of Test : 2022/1/17 ~ 2022/2/25

Issued Date : 2022/5/5

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by :

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BTL Inc.

Approved by

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NIST, A2LA, or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2201T051	R00	Original Report.	2022/5/5	Valid

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SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

FCC CFR Title 47, Part 15, Subpart C (15.249)							
Standard(s) Section Description Test Result Judgement Remark							
15.207	AC Power Line Conducted Emissions		N/A				
15.205 15.209 15.249(a)(d)	Radiated Emissions	APPENDIX A APPENDIX B	Pass				
15.215(c)	Bandwidth	APPENDIX C	Pass				

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.(2) The report format version is TP.1.1.1.

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1.1 TEST FACILITY

The test facilities used to collect the test data in this report:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.

The test sites and facilities are covered under PCC KN. 674415 and DN. 1990059. \Box CB16 \Box CB16 \Box CB16

⊠ SR06

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k} = \mathbf{2}$, providing a level of confidence of approximately $\mathbf{95}$ %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 \mathbf{U}_{cispr} requirement.

A. Radiated emissions test:

Test Site	Measurement Frequency Range	U,(dB)
	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
CD15	1 GHz ~ 6 GHz	5.21
CB15	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

B. Conducted test:

Test Item	U,(dB)
Bandwidth	0.5334

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
Radiated emissions below 1 GHz	21 °C, 68 %	DC 3V	Eddie Lee
Radiated emissions above 1 GHz	21 °C, 68 %	DC 3V	Eddie Lee
Bandwidth	22.8 °C, 52 %	DC 3V	Angela Wang

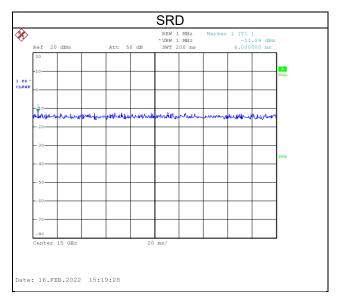


1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

Test Software	CMD				
Frequency	2425 MHz	2450 MHz	2475 MHz	Data Rate	
SRD	158	158	160	N/A	

1.5 DUTY CYCLE

If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered.



Remark	Delta 1			Delta 2	On Time/Period
Mode	ON	Numbers	On Time (B)	Period (ON+OFF)	Duty Cycle
Mode	(ms)	(ON)	(ms)	(ms)	(%)
SRD	1.000	1	1.000	1.000	100.00%

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2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	control pad
Model Name	BM-RC015-xx
Brand Name	VELUX Touch
Model Difference	The last 2 digits "xx" in the model number, this is used internally in VELUX to describe the version of the device: 01 – 99
Power Source	Battery supplied.
Power Rating	DC 3.2-1.8V
Products Covered	N/A
Frequency Range	2400 MHz ~ 2483.5 MHz
Operation Frequency	2425 MHz ~ 2475 MHz
Modulation Technology	GFSK
Transfer Rate	N/A
Field Strength	109.62 dBuV/m
Test Model	BM-RC015-01
Sample Status	Engineering Sample
EUT Modification(s)	N/A

NOTE:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

(2) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2425	02	2450	03	2475

(3) Table for Filed Antenna:

Antenna	Brand name	Model name	Type	Connector	Gain (dBi)
1	Jabil	2G4_ANT	PIFA	I-PEX	-0.38

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2.2 TEST MODES

Test Items	Test mode	Channel	Note
Transmitter Radiated Emissions (below 1GHz)	SRD	01	-
Transmitter Radiated Emissions	SRD	01/02/03	Fundamental
(above 1GHz)	SRD	01/02/03	Harmonic
Bandwidth	SRD	01/02/03	-

NOTE:

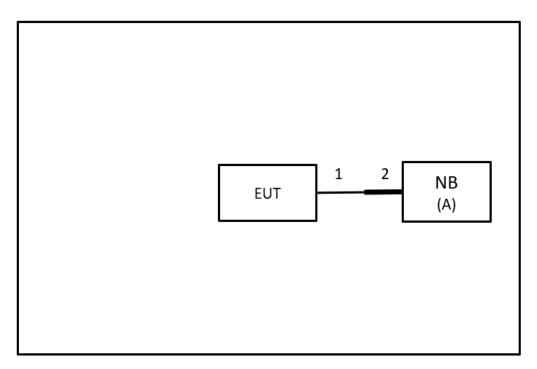
- (1) The Radiated emissions test was verified based on the worst conducted power and Bandwidth test results reported in the original report.
- (2) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.
- (3) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
- (4) There were no emissions found below 30 MHz within 20 dB of the limit.

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2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	NB	HP	TPN-I119	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	0.35m	Fixture Cable	Supplied by test requester.
2	N/A	N/A	3m	USB extension Cable	Furnished by test lab.

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3 RADIATED EMISSIONS TEST

3.1 LIMIT

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

	THE TOOL TELLINE ITT (O KITE TO TOOL IN	·-/
Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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
960~1000	500	3

LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

Frequency		Emissions V/m)	Measurement Distance
(MHz)	Peak	Average	(meters)
Above 1000	74	54	3

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
19.11	+	2.11	=	21.22

Measurement Value		Limit Value		Margin Level
21.22	-	54	=	-32.78

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	1MHz / 3MHz for Peak,
(Emission in restricted band)	1MHz / 1/T for Average

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

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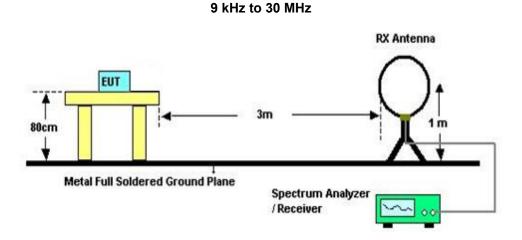
3.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

3.3 DEVIATION FROM TEST STANDARD

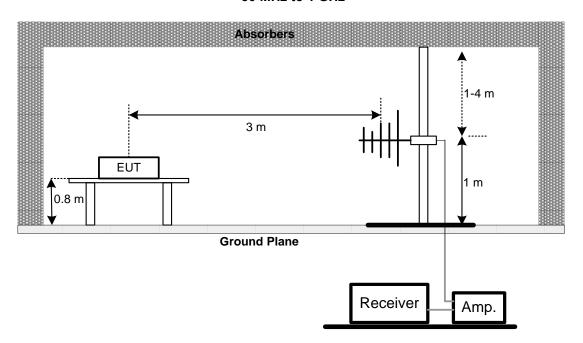
No deviation.

3.4 TEST SETUP

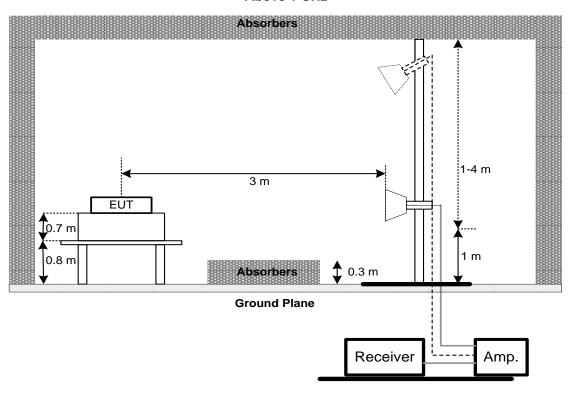




30 MHz to 1 GHz



Above 1 GHz



3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.



TEST RESULT - 30 MHZ TO 1 GHZ 3.6 Please refer to the APPENDIX A. **TEST RESULT - ABOVE 1 GHZ** Please refer to the APPENDIX B. NOTE: (1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

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4 BANDWIDTH TEST

4.1 APPLIED PROCEDURES / LIMIT

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

4.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

Please refer to the APPENDIX C.

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5 LIST OF MEASURING EQUIPMENTS

			Radiated Emission	ons		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC02325	980217	2021/4/8	2022/4/7
2	Preamplifier	EMCI	EMC012645SE	980737	2021/12/6	2022/12/5
3	Preamplifier	EMCI	EMC001340	980555	2021/4/8	2022/4/7
4	Test Cable	EMCI	EMC104-SM-100 0	180809	2021/4/8	2022/4/7
5	Test Cable	EMCI	EMC104-SM-SM- 3000	151205	2021/4/8	2022/4/7
6	Test Cable	EMCI	EMC-SM-SM-700 0	180408	2021/4/8	2022/4/7
7	MXE EMI Receiver	Agilent	N9038A	MY56400087	2021/5/27	2022/5/26
8	Signal Analyzer	Agilent	N9010A	MY56480554	2021/8/25	2022/8/24
9	Loop Ant	Electro-Metrics	EMCI-LPA600	274	2021/6/1	2022/5/31
10	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	2021/6/2	2022/6/1
11	Horn Ant	Schwarzbeck	BBHA 9170	340	2021/7/9	2022/7/8
12	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-352	2021/8/11	2022/8/10
13	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2021/8/11	2022/8/10
14	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

			Bandwidth			
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP38	101139	2021/3/5	2022/3/4

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.

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6 EUT TEST PHOTO
Please refer to document Appendix No.: TP-2201T051-FCCP-1 (APPENDIX-TEST PHOTOS).
7 EUT PHOTOS
Please refer to document Appendix No.: EP-2201T051-2 (APPENDIX-EUT PHOTOS).

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APPENDIX A RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

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	Test Mo			SRD			Test Date			2/1/24	
Te	st Frequ		2	425MHz			Polarizatio	n		tical	
	Temp)		21°C			Hum.		68	3%	
80.0 d	BuV/m										٦
70											
60											
50											
40 —					4 ×	5 X		6 X	:		
30		2 X	*		^						
20											
10											
30.000	127.00) 224.00	321.00	418.00	51!	5.00 €	612.00 70	09.00 806	5.00	1000.00	_
No.	Mk.	Freq.	Readir Leve			leasure- ment	Limit	Over			
		MHz	dBu√	′ dB	(dBuV/m	dBuV/m	dB	Detector	Comme	ent
1		33.1363	38.27	' -9.7	7	28.50	40.00	-11.50	peak		
2		167.9987	38.38	-9.3	2	29.06	43.50	-14.44	peak		
3		312.0113	35.51	-8.0	1	27.50	46.00	-18.50	peak		
4		467.6317	37.04	-4.12	2	32.92	46.00	-13.08	peak		
5		533.5270	37.40	-2.9	3	34.42	46.00	-11.58	peak		
6	*	797.5933	35.19	1.92	2	37.11	46.00	-8.89	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mo					RD				Test				2/1/24	
Те	st Frequ					5MH	Z			Polari		1		zontal	
	Temp	1			2	1°C				Hu	ım.		68	3%	
80.0 di	BuV/m														7
70															-
60															
50															
40				3 X					5 X			Ş			
30		X	2 X					4 ×							
20															
10															
0.0															
30.000	127.00	224.	00	321.0	0	418.	00	515.	00 6	12.00	709	0.00 806	.00	1000.00	_мн
No.	Mk.	Fred	 -	Read Lev			rrect actor		easure- ment	Lir	nit	Over			
		MHz	Z	dΒυ	ιV	(dB	d	BuV/m	dBu	V/m	dB	Detector	Comme	ent
1		167.99	986	40.7	79	-6	9.32	,	31.47	43.	.50	-12.03	peak		
2		263.99		41.5			9.60		31.94	46.		-14.06	peak		
3		312.01		43.2			3.01		35.25	46.		-10.75	peak		
4		482.79		35.5			3.90		31.67	46.		-14.33	peak		
5		530.90		38.8			3.03		35.82	46.		-10.18	peak		
6	*	798.72	250	35.9	90	1	.93	,	37.83	46.	.00	-8.17	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



APPENDIX B RADIATED EMISSIONS - ABOVE 1 GHZ

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	est Mod			RD		Test Date			2/1/22
Test	t Freque	ency		5MHz		Polarizatio	n		zontal
	Temp		2	1°C		Hum.		68	3%
30.0 dBu	W/m								
0									
o					1 X				
o					Л				
-									
					- / \				
					2				
					2 X				
nolo-moles	Howelesans	of the state of th	nga Johan willy Mybergraphic	Langer	<i>y</i> "W.	www.halananahananahananahananahananahananahananahananahananahananahananahananahananahananahananahananahananah	* Abolishar william	proproprior	roferent de fortenent
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ndp-gwhr					<i>y</i> th <i>Y</i> _{1,1,1}				
.0 2325.000	2345.00	2365.00	2385.00	2405.00	2425.00	2445.00 24	65.00 248	harfurthweenskiresp	2525.00 M
.0 2325.000			2385.00 Reading	2405.00 Correct	2425.00 Measure-	2445.00 24			
.0 2325.000	2345.00	2365.00 Freq.	2385.00 Reading Level	2405.00 Correct Factor	2425.00 Measure- ment	2445.00 24 - Limit	65.00 248 Over	5.00	2525.00 M
1.0	2345.00	2365.00	2385.00 Reading	2405.00 Correct	2425.00 Measure-	2445.00 24 - Limit	65.00 248		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	Test Mo	ode	S	RD		Test Date		2022	2/1/24
T	est Frequ	iency		0MHz		Polarizatio	n		zontal
	Temp)	2	1°C		Hum.		68	3%
30.0	dBuV/m								
20									
10 🗀					×				
00					-				
) <u> </u>									
·) 2 X V,				
)		. 11			JF "\		ermendenskyneger om m	44.1.4.4.4.	Name design to a
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2350.	000 2370.0	0 2390.00	2410.00	2430.00	2450.00 2	470.00 24	190.00 251	0.00	2550.00 M
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2450.000	78.21	31.41	109.62	114.00	-4.38	peak	
2		2450.000	109.62	-43.52	66.10	94.00	-27.90	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	Test Mo			RD		Test Date			2/1/22
Te	est Frequ	•		5MHz		Polarizatior	1		zontal
	Temp		2	1°C		Hum.		68	3%
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2375.0	000 2395.0		2435.00	2455.00				5.00	2575.00 M
	Mk.	Freq.	Reading	Correct Factor	Measure- ment	Limit	Over		
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No.		MHz	Level dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
No.	*	MHz 2475.000 2475.000				dBuV/m 114.00 94.00	dB -5.94 -29.46	Detector peak AVG	Comment

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	Test Mo			SRD		Test Date			2/1/24
Tes	t Frequ			25MHz		Polarizatio	n		tical
1000 ID	Temp)]	21°C		Hum.		68	3%
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	0 3550.0	0 6100.00	0 8650.00	11200.00	13750.00	16300.00 18	B850.00 214	100.00	26500.00 MH
No.	Mk.	Freq.	Reading	Correct	Measure	- Limit	Over		
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4850.000	58.17	-11.60	46.57	74.00	-27.43	peak	
2	*	4850.000	47.15	-11.60	35.55	54.00	-18.45	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	est Mo				RD			Test Dat			2/1/24
Tes	t Frequ	ency			5MHz		F	Polarizati	ion		zontal
	Temp			21	1°C			Hum.		6	8%
30.0 dB	ıV/m										
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1000.000	3550.0	0 6100.0	0 8650.	.00	11200.00	13750.00	16	300.00	18850.00	21400.00	26500.00 MI
No.	Mk.	Freq.	Read Lev		Correct Factor	Measur ment		Limit	Ove	er	
		MHz	dBı		dB	dBuV/r		dBuV/m	n dE	B Detector	Comment
1		4850.000	0 56.	17	-11.60	44.57		74.00	-29.		
2	*	4850.000	0 47.	39	-11.60	35.79		54.00	-18.	21 AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	Test Mod				RD			Test Da			2/1/24
ies	st Frequ				OMHz 1°C			Polarizat Hum.	ion		rtical 8%
30.0 dB	Temp				I C			Hum.		0	8%
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1000.00	0 3550.00	6100.0	0 8650.	.00	11200.00	13750.00) 16	300.00	18850.00	21400.00	26500.00 MH
No.	Mk.	Freq.	Read Lev		Correct	Meas		Limit	Ove	er	
		MHz	dBı		Factor dB	me dBu\		dBuV/n	n dE	B Detector	Comment
1		4900.00			-11.54	45.		74.00			33
2	*	4900.00			-11.54	35.3		54.00			

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	Test Mo	ode				RD				Test Da	ate		2022	2/1/24
Te	st Freq	uency				OMHz			Р	olariza				zontal
	Tem	כ			2	1°C				Hum			68	3%
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No.	Mk.	Freq		Read Leve		Correct Factor		easure ment	-	Limit		Over		
		MHz	<u>'</u>	dBu		dB		BuV/m		dBuV/	m	dB	Detector	Comment
1		4900.0	00	56.7	6	-11.54		45.22		74.00		-28.78	peak	
2	*	4900.0	00	46.3	80	-11.54		34.76		54.00)	-19.24	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	est Mo				RD 5MHz		Test D Polariza			2/1/24
168	t Frequ Temp				омп <u>и</u> 1°С		Hum			tical 8%
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1000.000				8650.00	11200.00	13750.00	16300.00	18850.00	21400.00	26500.00 MF
No.	Mk.	Freq.		Reading Level	Correct Factor	Measure ment	e- Limi	t Ove	r	
		MHz		dBuV	dB	dBuV/n	n dBuV	/m dB	Detector	Comment
1		4950.00	00	56.73	-11.47	45.26	74.0			
2	*	4950.00	00	47.01	-11.47	35.54	54.0	0 -18.4	6 AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

1	est Mo	de			S	RD					Test Da	ate			2022	2/1/24	
Tes	t Frequ	iency				5MH	Z			Р	olariza	tion				zontal	
	Temp)			2	1°C					Hum				6	8%	
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		MHz		dB			dB		3uV/m	1	dBuV/	m	dB		Detector	Comme	nt
1		4950.0	00	55.	.33	-1 ⁻	1.47		13.86		74.00		-30.1	14	peak		
2	*	4950.0	00	45.	.09	-1 ⁻	1.47	3	33.62		54.00)	-20.3	38	AVG		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0



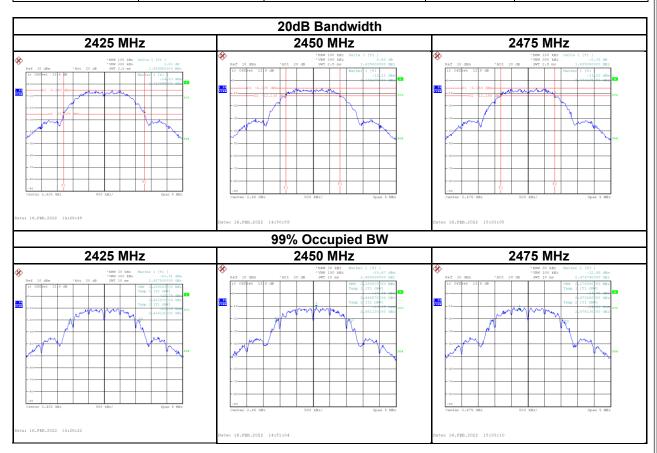
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	APPENDIX C	

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Test Mode: SRD

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2425	2.59	2.26	500	Pass
2450	1.64	2.26	500	Pass
2475	1.64	2.27	500	Pass



End of Test Report