

# **RF TEST REPORT**

Product Name: SEX TOY

Model Name: SM-S004-001, UPW-06

FCC ID: 2BEA2SM-S004-001

Issued For : Dongguan Intelligent Technology Co., Ltd

No. 31 Dongping Avenue, Changping Town, Hongyuan Zhizao Garden, Building 1, 7th Floor, Intelligent

Issued By : Shenzhen LGT Test Service Co., Ltd. Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Report Number:	LGT23L104RF01
Sample Received Date:	Dec. 22, 2023
Date of Test:	Dec. 22, 2023 – Jan. 05, 2024
Date of Issue:	Jan. 05, 2024

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# **TEST REPORT CERTIFICATION**

Applicant:	Dongguan Intelligent Technology Co., Ltd	
Address:	No. 31 Dongping Avenue, Changping Town, Hongyuan Zhizao Garden, Building 1, 7th Floor, Intelligent	
Manufacturer:	Dongguan Intelligent Technology Co., Ltd	
Address:	No. 31 Dongping Avenue, Changping Town, Hongyuan Zhizao Garden, Building 1, 7th Floor, Intelligent	
Product Name:	SEX TOY	
Trademark:	N/A	
Model Name:	SM-S004-001, UPW-06	
Sample Status:	Normal	

APPLICABLE STANDARDS		
STANDARD	TEST RESULTS	
FCC Part 15.249, Subpart C ANSI C63.10-2013	PASS	

Prepared by:

Zane Shan

Zane Shan Engineer

Approved by:

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Vita Li Technical Director





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## **Revision History**

Rev.	Issue Date	Contents
00	Jan. 05, 2024	Initial Issue



## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15.249, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	
15.249	Radiated Spurious Emission	PASS	
15.205	Restricted Band Edge Emission	PASS	
15.249	20dB Bandwidth	Pass	
15.203	Antenna Requirement	PASS	

#### NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2013.



## 1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.	
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China	
	A2LA Certificate No.: 6727.01	
Accreditation Certificate	FCC Registration No.: 746540	
	CAB ID: CN0136	

#### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 9K-30MHz	±2.84dB
4	All emissions, radiated 30M-1GHz	±4.39dB
5	All emissions, radiated 1G-6GHz	±5.10dB
6	All emissions, radiated>6G	±5.48dB
7	Conducted Emission (9KHz-150KHz)	±2.79dB
8	Conducted Emission (150KHz-30MHz)	±2.80dB
9	Occupied Channel Bandwidth	±3.2 %

Note: The measurement uncertainty is not included in the test result.



## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	SEX TOY	
Trademark:	N/A	
Model Name:	SM-S004-001	
Series Model:	UPW-06	
Model Difference:	Only the model is different.	
Product Description:	Operation Frequency: Modulation Type: Antenna Type: Antenna Gain (dBi):	915.24MHz FSK Monopole 1
Channel List:	Please refer to the Note 3.	
Battery:	Rated Voltage: 3.7V	
Hardware Version:	N/A	
Software Version:	N/A	
Connecting I/O Port(s):	Please refer to the Note 1.	

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

3.	Channel List		
	Channel No.	Frequency (MHz)	
	1	915.24	

#### 2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Modulation
Mode 1	TX CH01(915.24MHz)	FSK

Note:

(1) All above mode has been measurement, only worst data was reported.

(2) New battery was used during the Radiated and RF conducted test.



#### 2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

#### Accessories Equipment

Description	Manufacturer	Model	S/N	Rating

#### Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating

Note:

- (1) For detachable type I/O cable should be specified the length in cm in <sup>®</sup>Length <sup>\_</sup> column.
- (2) "YES" is means "with core"; "NO" is means "without core".



## 2.4 EQUIPMENTS LIST

RF Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2023.04.13	2024.04.12
Active loop Antenna	ETS	6502	00049544	2022.06.02	2025.06.01
Spectrum Analyzer	Keysight	N9010B	MY60242508	2023.08.14	2024.08.13
Bilog Antenna	Schwarzbeck	VULB 9168	01447	2022.12.12	2025.12.11
Horn Antenna	Schwarzbeck	3115	10SL0060	2022.06.02	2025.06.01
Pre-amplifier (9kHz-1GHz)	EMtrace	RP01A	02017	2023.04.07	2024.04.06
Pre-amplifier (1-26.5G)	Agilent	8449B	3008A4722	2023.04.07	2024.04.06
Temperature & Humidity	KTJ	TA218B	N.A	2023.04.24	2024.04.23
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until	
Keysight	N9010B	MY60242508	2023.08.14	2024.08.13	
Keysight	N9020A	MY50530994	2023.10.12	2024.10.11	
MW	MW200-RFCB	MW220322LG	2023.04.13	2024.04.12	
Keysight	N5182B	MY59100717	2023.04.07	2024.04.06	
AISRY	LX-1000L	171200018	2023.08.14	2024.08.13	
eastsheep	90db	N.A	2023.04.10	2024.04.09	
KTJ	TA218B	N.A	2023.04.24	2024.04.23	
			2024.08.13		
	Manufacturer Keysight Keysight MW Keysight AISRY eastsheep KTJ	ManufacturerModel No.KeysightN9010BKeysightN9020AMWMW200-RFCBKeysightN5182BAISRYLX-1000Leastsheep90dbKTJTA218BMASTECHMS8261	ManufacturerModel No.Serial No.KeysightN9010BMY60242508KeysightN9020AMY50530994MWMW200-RFCBMW220322LGKeysightN5182BMY59100717AISRYLX-1000L171200018eastsheep90dbN.AKTJTA218BN.AMASTECHMS8261MBGBC83053	Manufacturer Model No. Serial No. Cal. Date   Keysight N9010B MY60242508 2023.08.14   Keysight N9020A MY50530994 2023.10.12   MW MW200-RFCB MW220322LG 2023.04.13   Keysight N5182B MY59100717 2023.04.07   AISRY LX-1000L 171200018 2023.08.14   eastsheep 90db N.A 2023.04.10   KTJ TA218B N.A 2023.04.24	



## 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

#### 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

	Conducted Emission limit (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

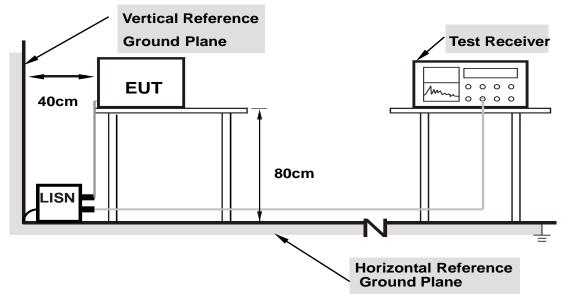
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



#### 3.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 3.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

#### 3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

#### 3.5 TEST RESULTS

N/A



## 4. RADIATED EMISSION MEASUREMENT

#### **4.1 RADIATED EMISSION LIMITS**

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.249 and the Part 15.209(a) limit in the table below has to be followed. Standard FCC 15.209

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/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
Above 1000	Other:74.0 dB(µV)/m (Peak)	3
	54.0 dB(µV)/m (Average)	3

#### Standard FCC 15.249

Frequency of Emission (MHz)	Field Strength of fundamental (millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
900~928	50	500
2400~2483.5	50	500
5725~5875	50	500
24000~242500	250	2500

Notes:

(1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Spectrum Parameter	Setting
Detector	Peak/AV
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB (emission in restricted band)	>20BW
VB (emission in restricted band)	=3xRB



Receiver Parameter	Setting		
Attenuation	Auto		
	9kHz~90kHz / RB 200Hz for PK & AV		
	90kHz~110kHz / RB 200Hz for QP		
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV		
	490kHz~30MHz / RB 9kHz for QP		
	30MHz~1000MHz / RB 120kHz for QP		

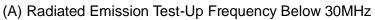
#### 4.2 TEST PROCEDURE

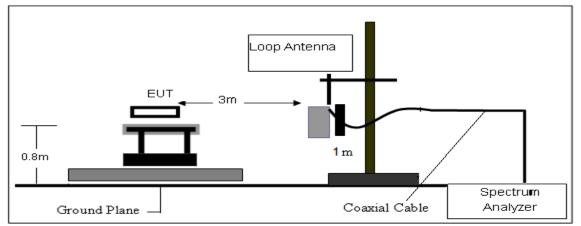
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

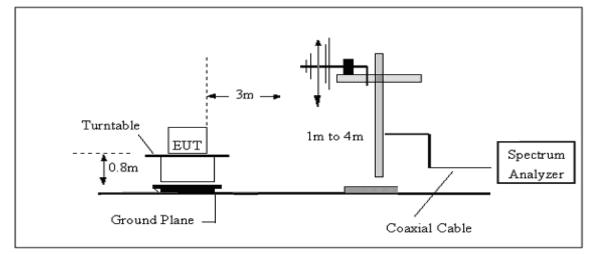


#### 4.3 TEST SETUP

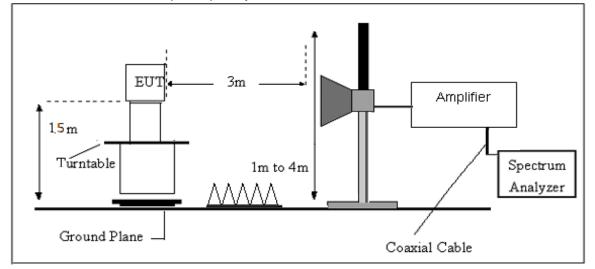




#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 EUT OPERATING CONDITIONS Please refer to section 3.4 of this report.



#### 4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

For example

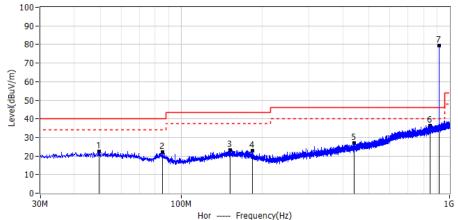
Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG

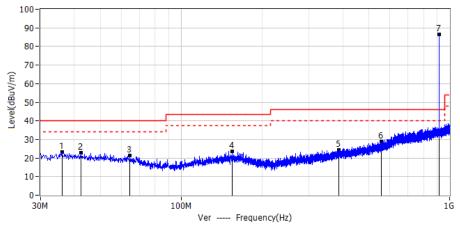


## 4.6 TEST RESULTS

Project: LGT23L104	Test Engineer: Xiangdong Ma
EUT: SEX TOY	Temperature: 23.1°C
M/N: SM-S004-001	Humidity: 44%RH
Test Voltage: Battery	Test Data: 2024-01-04
Test Mode: 915.24MHz	
Note:	



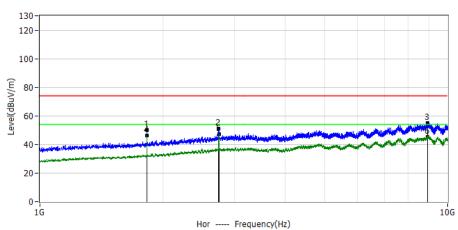
				noi nequene	10.00			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1*	49.521	3.13	19.35	22.48	40.00	-17.52	QP	Hor
2*	85.533	7.15	15.12	22.27	40.00	-17.73	QP	Hor
3*	152.463	3.27	19.95	23.22	43.50	-20.28	QP	Hor
4*	184.473	4.50	18.31	22.81	43.50	-20.69	QP	Hor
5*	442.008	3.33	23.61	26.94	46.00	-19.06	QP	Hor
6*	844.800	4.26	32.21	36.47	46.00	-9.53	QP	Hor
!7*	915.240	46.08	33.32	79.40			QP	Hor



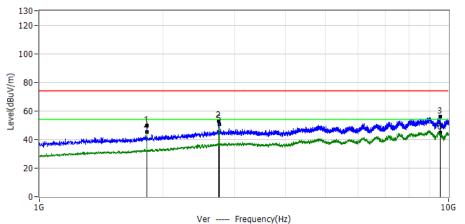
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	36.063	4.60	18.72	23.32	40.00	-16.68	QP	Ver
2*	42.368	3.51	19.30	22.81	40.00	-17.19	QP	Ver
3*	64.556	2.95	18.36	21.31	40.00	-18.69	QP	Ver
4*	155.130	3.71	19.91	23.62	43.50	-19.88	QP	Ver
5*	387.203	1.97	22.45	24.42	46.00	-21.58	QP	Ver
6*	556.831	2.43	26.34	28.77	46.00	-17.23	QP	Ver
!7*	915.240	53.32	33.32	86.64			QP	Ver



Project: LGT23L104	Test Engineer: Xiangdong Ma
EUT: SEX TOY	Temperature: 23.1°C
M/N: SM-S004-001	Humidity: 44%RH
Test Voltage: Battery	Test Data: 2024-01-04
Test Mode: 915.24MHz	
Note:	



				Hor Frequenc	y(Hz)			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
110.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Delector	1 Oldi
1*	1830.2000	68.22	-17.95	50.27	74.00	-23.73	PK	Hor
2*	2744.9000	60.85	-9.69	51.16	74.00	-22.84	PK	Hor
3*	8920.0000	56.39	-1.40	54.99	74.00	-19.01	PK	Hor
4*	1831.4000	64.36	-17.94	46.42	54.00	-7.58	AV	Hor
5*	2746.0000	56.80	-9.68	47.12	54.00	-6.88	AV	Hor
6*	8920.0000	46.70	-1.40	45.30	54.00	-8.70	AV	Hor



				ver Frequenc	y(112)			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Delor
INO.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Delector	Polar
1*	1830.2000	67.82	-17.95	49.87	74.00	-24.13	PK	Ver
2*	2744.9000	62.89	-9.69	53.20	74.00	-20.80	PK	Ver
3*	9536.5000	56.93	-1.18	55.75	74.00	-18.25	PK	Ver
4*	1831.4000	63.39	-17.94	45.45	54.00	-8.55	AV	Ver
5*	2746.0000	60.31	-9.68	50.63	54.00	-3.37	AV	Ver
6*	9536.5000	45.78	-1.18	44.60	54.00	-9.40	AV	Ver



Duty	cycle
Duty	Cycic

Keysight Spectrum Analyzer - Swept	SA						
enter Freq 915.2400		SENSE:IN		ALIGN AUTO Avg Type	Log-Pwr	т	6 AM Jan 02, 20 RACE 1 2 3 4
	PNO: IFGain		: Free Run en: 30 dB				
Ref Offset 1 dB						Mkr1	50.00 n 8.88 dB
dB/div Ref 21.00 dB	im					-	5.00 UB
00			<b>`</b> 1				
9.0							
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20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14/11, <sup>1</sup> 4,00,14 <sup>0</sup> 1	14144,6 <sub>1</sub> 44,1	<mark>ha aliji, na je</mark> je	141343 <mark>41147842131</mark> 83			Span 0
20 00 00 00 00 00 00 00 00 00 00 00 00 0	lulli landalla	# # #VBW 3.0		llffff <sup>f</sup> luga kunglar		2 100.0 ms	Span 0 s (1001 p
10 10 10 10 10 10 10 10 10 10	x	Y				2 100.0 ms	Span 0 l s (1001 p
enter 915.240000 MHz s BW 1.0 MHz R MODE TRC SCL							Span 0   s (1001 p
0 0 0 0 0 0 0 0 0 0 0 0 0 0	x	Y					Span 0   s (1001 p
n 1 t	x	Y					Span 0   s (1001 p
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x	Y					Span 0   s (1001 p
20 20 20 20 20 20 20 20 20 20	x	Y					Span 0   s (1001 p
20 20 20 20 20 20 20 20 20 20	x	Y					Span 0   s (1001 p
10 10 10 10 10 10 10 10 10 10	x	Y					Span 0   s (1001 p
10 10 10 10 10 10 10 10 10 10	x	Y					Span 0   s (1001 p

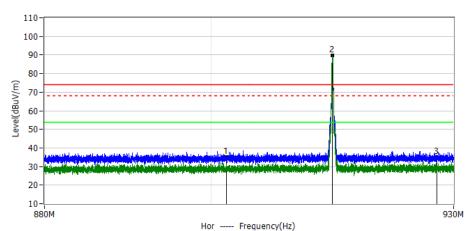
Ton (ms)	Tp (ms)	Duty Factor
100	100	0

Note: Duty Factor=20\*LOG (Ton/Tp)



## 4.7 TEST RESULTS (BAND EDGE REQUIREMENTS)

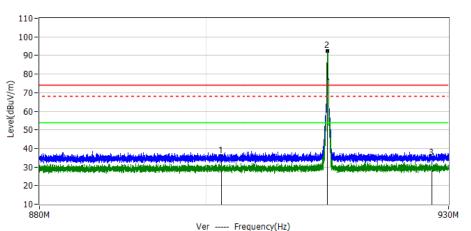
Project: LGT23L104	Test Engineer: Xiangdong Ma
EUT: SEX TOY	Temperature: 23.1°C
M/N: SM-S004-001	Humidity: 44%RH
Test Voltage: Battery	Test Data: 2024-01-04
Test Mode: 915.24MHz	
Note:	



				noi noquane	/(/			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1*	901.900	1.95	33.25	35.20	74.00	-38.80	PK	Hor
3*	927.900	1.56	33.44	35.00	74.00	-39.00	PK	Hor

#### **Fundametal Frequency**

No.	Frequency MHz	Reading dBuV	Factor dB/m	Duty Factor	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!2*	915.240	56.62	33.32	-	89.94	114.00	-24.06	PK	Hor



				te. nequence	/(/			
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INO.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	FUIdi
1*	901.900	2.55	33.25	35.80	74.00	-38.20	PK	Ver
3*	927.900	1.26	33.44	34.70	74.00	-39.30	PK	Ver

#### Fundametal Frequency

No.	Frequency MHz	Reading dBuV	Factor dB/m	Duty Factor	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!2*	915.240	59.15	33.32	-	92.47	114.00	-21.53	PK	Hor



## 5. BANDWIDTH TEST

#### 5.1 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= 30KHz, VBW $\geq$ RBW, Sweep time = Auto.

#### 5.2 TEST SETUP



## 5.3 EUT OPERATION CONDITIONS

TX mode.

#### 5.4 TEST RESULTS

Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)		
915.24	0.1532	0.25439		

Keysight Spectrum Analyzer - Occupied BW		SENSE:INT	ALIGN AUTO	09:33:26 AM Jan 02, 2024			
Center Freq 915.240000 M	Hz	Center Freq: 915.24000		Radio Std: None			
	IFGain:Low	#Atten: 30 dB	Avginoid. 100/100	Radio Device: BTS			
Ref Offset 1 dB 15 dB/div Ref 11.00 dBm				Mkr1 915.242 MHz -10.500 dBm			
Log							
-19.0							
-34.0							
-49.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			~~~~			
-64.0							
-79.0							
-109							
-124							
Center 915.2 MHz				Span 2 MHz			
#ResBW 30 kHz		#VBW 100 k	Sweep 2.733 ms				
Occupied Bandwidth		Total Power					
25	4.39 kHz						
Transmit Freq Error	-373 Hz	% of OBW Powe	er 99.00 %				
x dB Bandwidth	153.2 kHz	x dB	-20.00 dB				
MSG			<b>STATUS</b>				



## 6. ANTENNA REQUIREMENT

#### 6.1 STANDARD REQUIREMENT

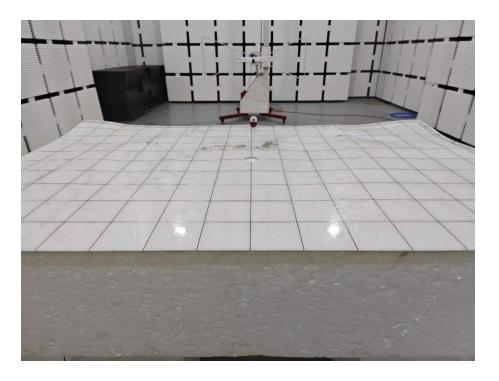
According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### 6.2 EUT ANTENNA

The EUT antenna is Monopole Antenna. It comply with the standard requirement.



## Appendix - Test Setup photos



Set-up for Radiated Spurious Emission, Below 1GHz

Set-up for Radiated Spurious Emission, Above 1GHz



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