TEST REPORT NUMBER: (8525)076-0053

TEST REPORT

Applicant:	Jakks Pacific (HK) Ltd.	Fax:	---
		E-mail:	---
Address :	12/F., Wharf T&T Centre, 7 Canton Road, Tsim Sha Tsui Kowloon Hong Kong		
Test Date :	2025-3-31 to 2025-4-8		

Manufacturer or Supplier :	Jakks Pacific (HK) Ltd.
Address :	12/F., Wharf T&T Centre, 7 Canton Road, Tsim Sha Tsui Kowloon Hong Kong
Sample Description:	Sonic Light up Drifting RC
Model number:	42997
HVIN:	42997RX
Additional Model :	N/A
Rated Voltage:	DC 9V (AA*6)
FCC ID :	OTA42997RX
IC :	7783A-42997RX
The submitted sample of the above equipment has been tested according to following standard(s)	
47 CFR Part 15, Subpart C 249 RSS-210 Issue 11 June 25, 2024 RSS-Gen Issue 5:2018+A1:2019+A2:2021	
CONCLUSION: The submitted sample was found to COMPLY with the test requirement	

Assistant Manager

Name: Nick Lung

Date: APR 16,2025

TEST REPORT NUMBER: (8525)076-0053

1 Test Summary

Test Item	FCC/IC Test Requirement	Test method	Result
Antenna Requirement	RSS-Gen Section 6.8 47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	RSS-Gen Section 8.8 47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10-2013	N/A
Field Strength of the Fundamental Signal	RSS 210 B 10(a) 47 CFR Part 15, Subpart C Section 15.249 (a)	RSS-Gen section 6.12 & ANSI C63.10-2013	PASS
Spurious Emissions	RSS 210 B 10 (b) 47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	RSS-Gen section 6.13 & ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency	RSS 210 B 10 (b) 47 CFR Part 15, Subpart C Section 15.249(a)/15.205	RSS-Gen section 6.13 & ANSI C63.10-2013	PASS
20dB Occupied Bandwidth	RSS-Gen section 6.7 47 CFR Part 15, Subpart C Section 15.215 (c)	RSS-Gen section 6.7 & ANSI C63.10-2013	PASS
99% Occupied Bandwidth	RSS-Gen section 6.7	RSS-Gen section 6.7	PASS

N/A: Since the EUT is powered by battery, this AC power line conducted emission test should be not applicable

2 Contents

3 General Information

3.1 Client Information

Applicant:	Jakks Pacific (HK) Ltd.
Address of Applicant:	12/F., Wharf T&T Centre, 7 Canton Road, Tsim Sha Tsui Kowloon Hong Kong
Manufacturer:	Jakks Pacific (HK) Ltd.
Address of Manufacturer:	12/F., Wharf T&T Centre, 7 Canton Road, Tsim Sha Tsui Kowloon Hong Kong

3.2 General Description of EUT

Name:	Sonic Light up Drifting RC
Tset Model No.:	42997
HVIN:	42997RX
Serial No:	N/A
Trade Mark :	N/A
Software Version:	RX_V9
Hardware Version:	42997RXV06
Frequency Range:	2410-2470MHz
Test sample SN:	7884055125
EUT Power level:	Class 0
Test Software of EUT:	EUT Key
Modulation Type:	GFSK
Number of Channels:	21
Sample Type:	Portable product
Antenna Type:	wire antenna
Antenna Gain:	2.97dBi

Operation Frequency each of channel					
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2410MHz	10	2437MHz	19	2564MHz
2	2413MHz	11	2440MHz	20	2467MHz
3	2416MHz	12	2443MHz	21	2470MHz
4	2419MHz	13	2446MHz		
5	2422MHz	14	2449MHz		
6	2425MHz	15	2452MHz		
7	2428MHz	16	2455MHz		
8	2431MHz	17	2458MHz		
9	2434MHz	18	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2410MHz
The Middle channel	2440MHz
The Highest channel	2470MHz

3.3 Test Environment and Mode

Operating Environment:	
Temperature:	29 °C
Humidity:	59 % RH
Atmospheric Pressure:	1001mbar
Test mode:	
Test Mode:	Use test software (RF test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

3.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
/	/	/	/	CQA

3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for **CQA** laboratory is reported:

No.	Item	Uncertainty
1	Radiated Emission (Below 1GHz)	5.12dB
2	Radiated Emission (Above 1GHz)	4.60dB
3	Conducted Disturbance (0.15~30MHz)	3.34dB
4	Radio Frequency	3×10^{-8}
5	Duty cycle	0.6 %
6	Occupied Bandwidth	1.1%
7	RF conducted power	0.86dB
8	RF power density	0.74
9	Conducted Spurious emissions	0.86dB
10	Temperature test	0.8℃
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	time	0.6 %.
14	Frequency Error	5.5 Hz

3.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

3.7 Tsters and auditors

The tester in this report is Timo Lei, Timo Lei

The auditor of this report is Lewis Zhou, lewis zhou

The test site is:Shenzhen Huaxia Testing Technology Co., Ltd.

3.8 Test Facility

• ISED No.: 22984

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

• CAB identifier:CN0055

Shenzhen Huaxia Testing Technology Co., Ltd.CAB identifier No.:CN0055

3.9 Deviation from Standards

None.

3.10 Abnormalities from Standard Conditions

None.

3.11 Other Information Requested by the Customer

None.

3.12 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU26	CQA-038	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU40	CQA-075	2024/9/2	2025/9/1
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2024/9/2	2025/9/1
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2024/9/2	2025/9/1
Preamplifier	EMCI	EMC184055SE	CQA-089	2024/9/2	2025/9/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2024/9/2	2025/9/1
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2024/9/2	2025/9/1
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2024/9/2	2025/9/1

Note:

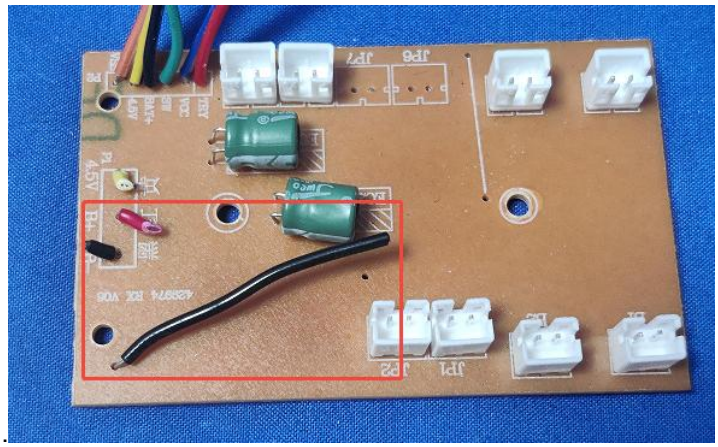
The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	RSS-Gen Section 6.8 47 CFR Part 15, Subpart C Section 15.203
EUT Antenna:	Please refer to the photos Appendix B

The antenna is soldered on the PCB, no need to consider replacement. best case gain



Antenna is 2.97dBi.

4.2 Radiated Emission

<table>
<tr><td>Test Requirement:</td><td>RSS 210 Issue 11 June 25, 2024 B 10 (b)
47 CFR Part 15, Subpart C Section 15.205/15.209</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10 & RSS-Gen section 6.12/6.13</td></tr>
<tr><td>Test Site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver Setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>0.009MHz-0.090MHz</td><td>Peak</td><td>10kHz</td><td>30KHz</td><td>Peak</td></tr>
<tr><td>0.009MHz-0.090MHz</td><td>Average</td><td>10kHz</td><td>30KHz</td><td>Average</td></tr>
<tr><td>0.090MHz-0.110MHz</td><td>Quasi-peak</td><td>10kHz</td><td>30KHz</td><td>Quasi-peak</td></tr>
<tr><td>0.110MHz-0.490MHz</td><td>Peak</td><td>10kHz</td><td>30KHz</td><td>Peak</td></tr>
<tr><td>0.110MHz-0.490MHz</td><td>Average</td><td>10kHz</td><td>30KHz</td><td>Average</td></tr>
<tr><td>0.490MHz -30MHz</td><td>Quasi-peak</td><td>10kHz</td><td>30kHz</td><td>Quasi-peak</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100 kHz</td><td>300KHz</td><td>Quasi-peak</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average</td></tr>
</table>
Note: For fundamental frequency, RBW=5MHz, VBW=5MHz, Peak detector is for PK value, RMS detector is for Average value.
</td></tr>
<tr><td>Limit:
(Spurious Emissions and band edge)</td><td>
<table>
<tr><th>Frequency</th><th>Field strength (microvolt/meter)</th><th>Limit (dBuV/m)</th><th>Remark</th><th>Measurement distance (m)</th></tr>
<tr><td>0.009MHz-0.490MHz</td><td>2400/F(kHz)</td><td>-</td><td>-</td><td>300</td></tr>
<tr><td>0.490MHz-1.705MHz</td><td>24000/F(kHz)</td><td>-</td><td>-</td><td>30</td></tr>
<tr><td>1.705MHz-30MHz</td><td>30</td><td>-</td><td>-</td><td>30</td></tr>
<tr><td>30MHz-88MHz</td><td>100</td><td>40.0</td><td>Quasi-peak</td><td>3</td></tr>
<tr><td>88MHz-216MHz</td><td>150</td><td>43.5</td><td>Quasi-peak</td><td>3</td></tr>
<tr><td>216MHz-960MHz</td><td>200</td><td>46.0</td><td>Quasi-peak</td><td>3</td></tr>
<tr><td>960MHz-1GHz</td><td>500</td><td>54.0</td><td>Quasi-peak</td><td>3</td></tr>
<tr><td>Above 1GHz</td><td>500</td><td>54.0</td><td>Average</td><td>3</td></tr>
</table>
Note: 1) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.
2) 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.
</td></tr>
<tr><td>Limit:
(Field strength of the fundamental signal)</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr>
<tr><td rowspan="2">2400MHz-2483.5MHz</td><td>94.0</td><td>Average Value</td></tr>
<tr><td>114.0</td><td>Peak Value</td></tr>
</table>
</td></tr>
<tr><td>Test Setup:</td><td></td></tr>
</table>

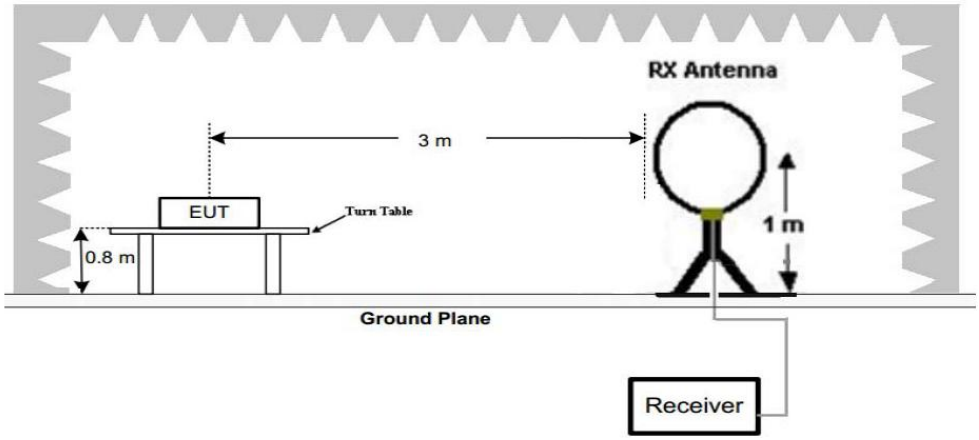


Figure 1. Below 30MHz

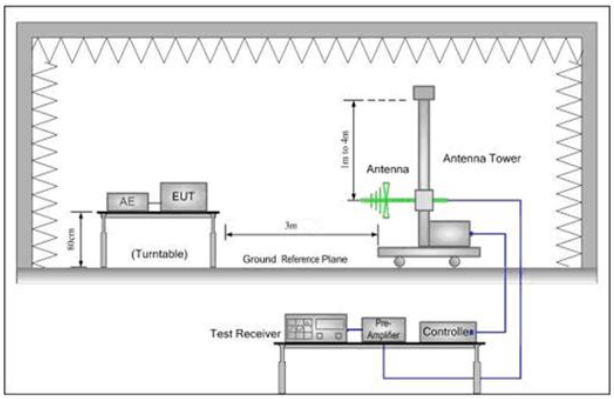


Figure 2. 30MHz to 1GHz

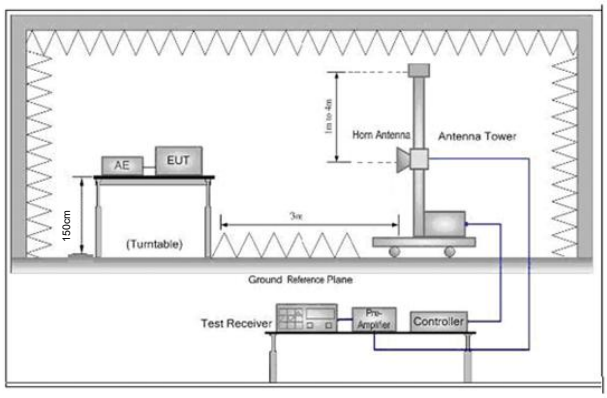


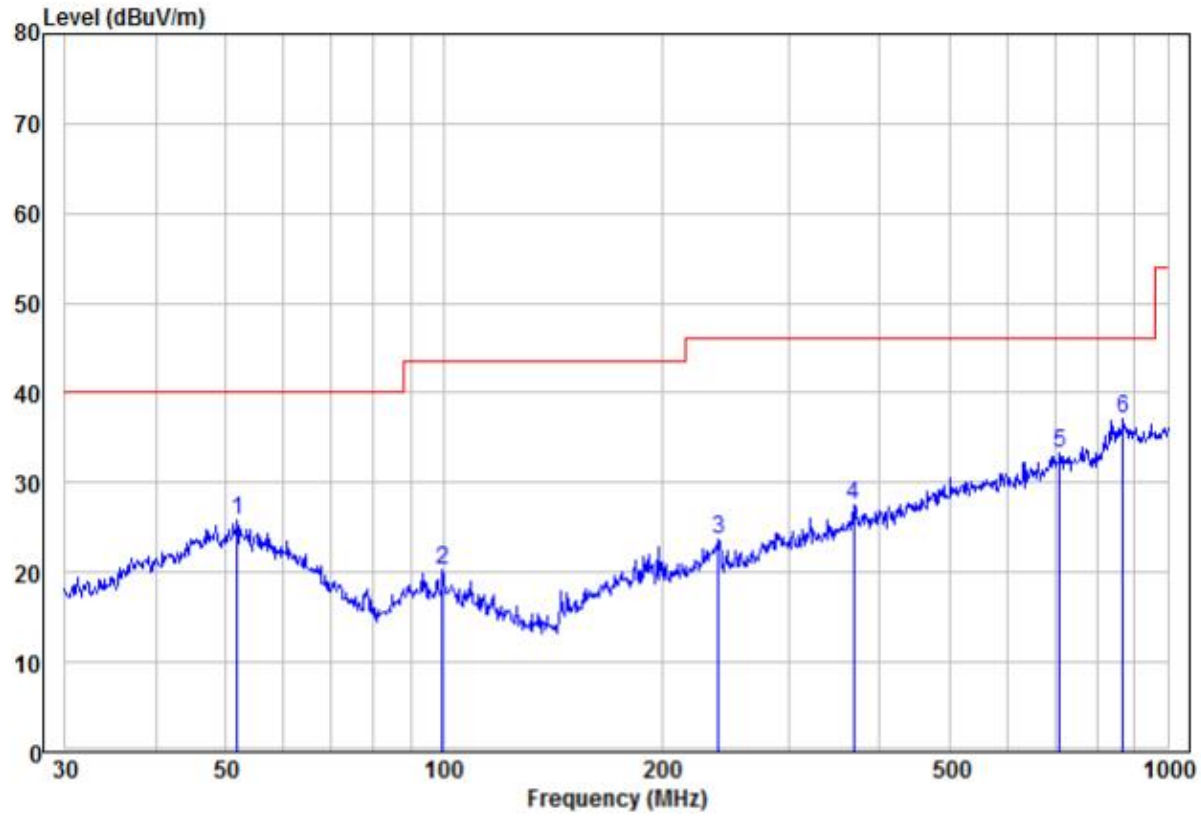
Figure 3. Above 1 GHz

Test Procedure:	a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. g. Test the EUT in the lowest channel,the middle channel,the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK at lowest, middle and highest channel.
Final Test Mode:	Pretest the EUT at Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Voltage:	DC9.0V (AA*6)
Test Results:	Pass

Measurement Data

30MHz~1GHz (the worst case)		
Test mode:	Transmitting (Lowest channel)	Vertical



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	51.84	11.93	13.79	25.72	40.00	-14.28	Peak	VERTICAL	100	358
2	99.53	7.43	12.91	20.34	43.50	-23.16	Peak	VERTICAL	100	45
3	239.99	7.75	15.90	23.65	46.00	-22.35	Peak	VERTICAL	100	158
4	368.11	8.07	19.42	27.49	46.00	-18.51	Peak	VERTICAL	100	311
5	709.18	8.75	24.46	33.21	46.00	-12.79	Peak	VERTICAL	100	254
6 pp	869.13	7.81	29.34	37.15	46.00	-8.85	Peak	VERTICAL	100	277

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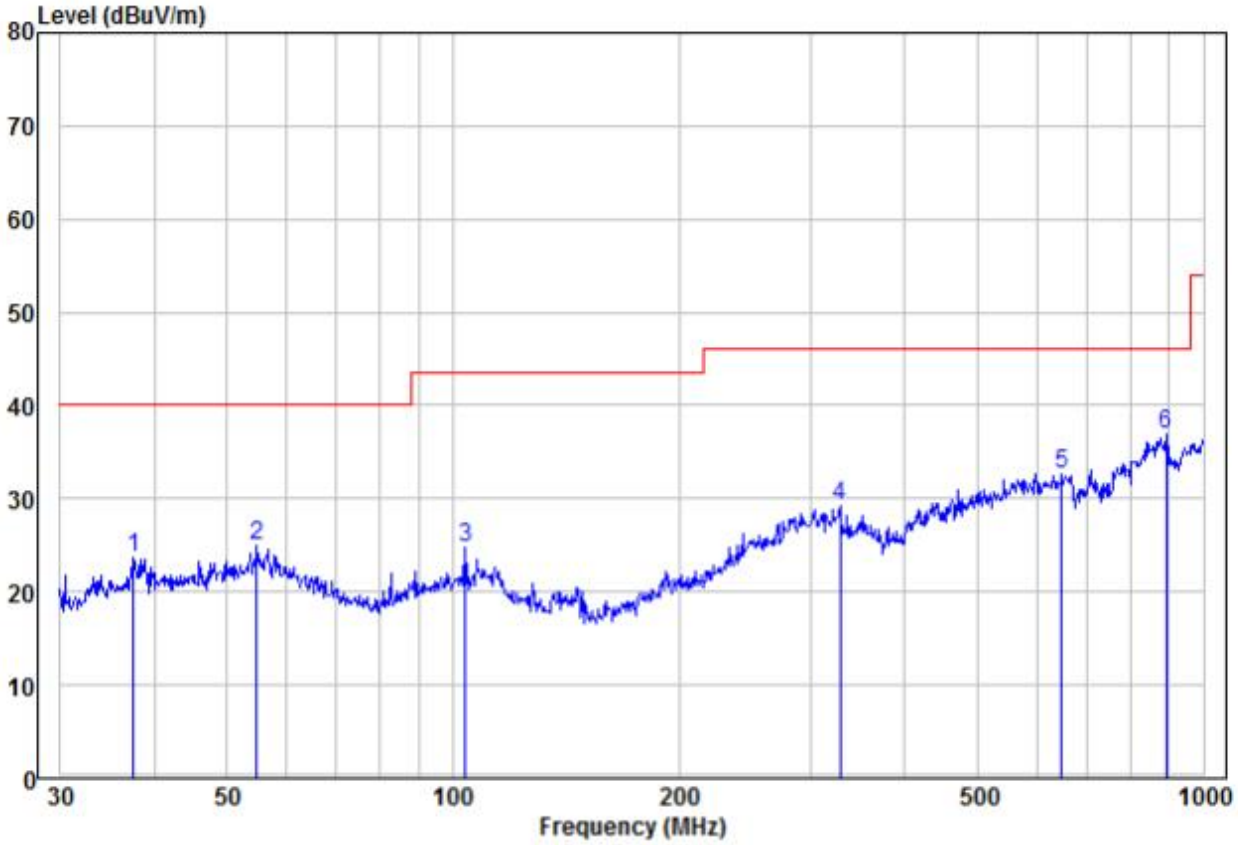
30MHz~1GHz (the worst case)		
Test mode:	Transmitting (Lowest channel)	Horizontal



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	37.55	12.41	11.30	23.71	40.00	-16.29	Peak	HORIZONTAL	100	152
2	54.83	11.21	13.82	25.03	40.00	-14.97	Peak	HORIZONTAL	100	341
3	103.81	11.81	12.90	24.71	43.50	-18.79	Peak	HORIZONTAL	100	52
4	327.89	10.77	18.45	29.22	46.00	-16.78	Peak	HORIZONTAL	100	111
5	647.39	9.29	23.34	32.63	46.00	-13.37	Peak	HORIZONTAL	100	214
6 pp	890.73	7.31	29.67	36.98	46.00	-9.02	Peak	HORIZONTAL	100	224

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Above 1GHz					
Test mode:	Transmitting	Test channel:	Lowest	Antenna Height	Table Angle

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V		
2390	61.04	-9.2	51.84	74	-22.16	Peak	H	1.5	326
2390	45.03	-9.2	35.83	54	-18.17	AVG	H	1.5	151
2400	44.36	-9.39	34.97	74	-39.03	Peak	H	1.5	187
2400	46.42	-9.39	37.03	54	-16.97	AVG	H	1.5	75
2410	99.35	-9.33	90.02	114	-23.98	peak	H	1.5	49
2410	96.43	-9.33	87.10	94	-6.90	AVG	H	1.5	219
4820	56.67	-4.28	52.39	74	-21.61	peak	H	1.5	238
4820	41.87	-4.28	37.59	54	-16.41	AVG	H	1.5	177
7230	51.81	1.13	52.94	74	-21.06	peak	H	1.5	208
7230	36.15	1.13	37.28	54	-16.72	AVG	H	1.5	128
2390	61.28	-9.2	52.08	74	-21.92	peak	V	1.5	321
2390	44.55	-9.2	35.35	54	-18.65	AVG	V	1.5	247
2400	60.63	-9.39	51.24	74	-22.76	peak	V	1.5	156
2400	46.60	-9.39	37.21	54	-16.79	AVG	V	1.5	233
2410	96.01	-9.33	86.68	114	-27.32	peak	V	1.5	313
2410	92.63	-9.33	83.30	94	-10.70	AVG	V	1.5	97
4820	57.17	-4.28	52.89	74	-21.11	peak	V	1.5	267
4820	43.06	-4.28	38.78	54	-15.22	AVG	V	1.5	255
7230	53.35	1.13	54.48	74	-19.52	peak	V	1.5	283
7230	37.20	1.13	38.33	54	-15.67	AVG	V	1.5	143

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Test mode:	Transmitting	Test channel:	Middle	Antenna Height	Table Angle

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V		
2440	100.15	-9.37	90.78	114	-23.22	peak	H	1.5	138
2440	96.54	-9.37	87.17	94	-6.83	AVG	H	1.5	79
4880	55.09	-4.14	50.95	74	-23.05	peak	H	1.5	9
4880	41.09	-4.14	36.95	54	-17.05	AVG	H	1.5	41
7320	52.61	0.56	53.17	74	-20.83	peak	H	1.5	40
7320	37.51	0.56	38.07	54	-15.93	AVG	H	1.5	50
2440	95.80	-9.36	86.44	114	-27.56	peak	V	1.5	218
2440	94.04	-9.36	84.68	94	-9.32	AVG	V	1.5	29
4880	57.16	-4.14	53.02	74	-20.98	peak	V	1.5	298
4880	42.94	-4.14	38.80	54	-15.20	AVG	V	1.5	154
7320	53.65	0.56	54.21	74	-19.79	peak	V	1.5	322
7320	37.97	0.56	38.53	54	-15.47	AVG	V	1.5	336

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Test mode:	Transmitting	Test channel:	Highest	Antenna Height	Table Angle

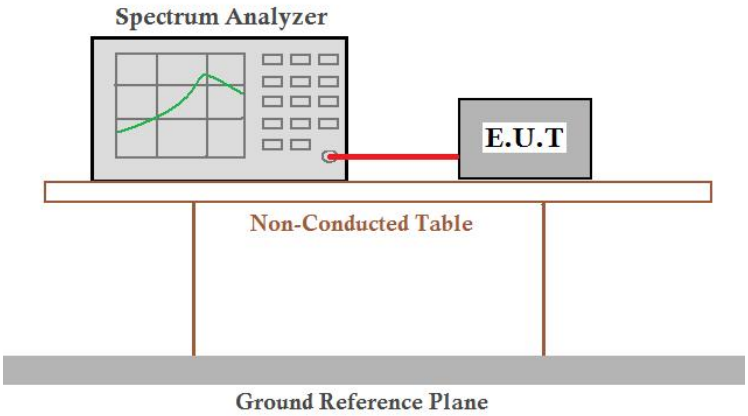
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V		
2470	98.52	-9.23	89.29	114	-24.71	peak	H	1.5	76
2470	96.13	-9.23	86.90	94	-7.10	AVG	H	1.5	137
2483.5	61.95	-9.29	52.66	74	-21.34	Peak	H	1.5	8
2483.5	43.24	-9.29	33.95	54	-20.05	AVG	H	1.5	273
4940	57.58	-4.03	53.55	74	-20.45	peak	H	1.5	100
4940	40.77	-4.03	36.74	54	-17.26	AVG	H	1.5	323
7410	51.12	1.68	52.80	74	-21.20	peak	H	1.5	35
7410	36.52	1.68	38.20	54	-15.80	AVG	H	1.5	86
2470	97.54	-9.23	88.31	114	-25.69	peak	V	1.5	304
2470	93.57	-9.23	84.34	94	-9.66	AVG	V	1.5	76
2483.5	59.69	-9.29	50.40	74	-23.60	peak	V	1.5	159
2483.5	45.28	-9.29	35.99	54	-18.01	AVG	V	1.5	313
4940	56.24	-4.03	52.21	74	-21.79	peak	V	1.5	196
4940	43.04	-4.03	39.01	54	-14.99	AVG	V	1.5	307
7410	53.06	1.68	54.74	74	-19.26	peak	V	1.5	344
7410	37.70	1.68	39.38	54	-14.62	AVG	V	1.5	140

Remark:

1) 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

2) Scan from 9kHz to 25GHz,The disturbance above 8GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .

4.3 20dB Bandwidth

Test Requirement:	RSS-Gen Issue 5:2018+A1:2019+A2:2021 section 6.7 47 CFR Part 15, Subpart C Section 15.215 (c)
Test Method:	ANSI C63.10:2013 & RSS-Gen Section 6.7
Test Setup:	
Test Mode:	Transmitting with GFSK at lowest, middle and highest channel.
Test Procedure:	The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth: A:The transmitter shall be operated at its maximum carrier power measured under normal test conditions. B:The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span. C:The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously. D:The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.
Limit:	N/A
Test Results:	Pass

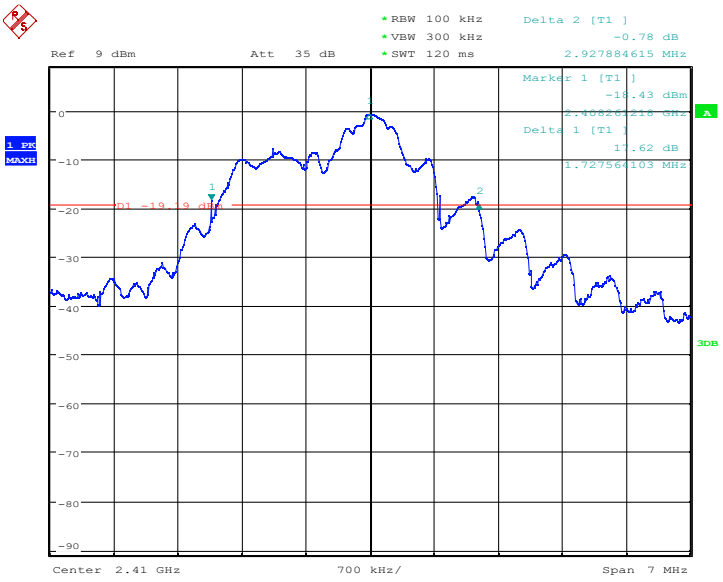
Measurement Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	2.927	Pass
Middle	3.197	Pass
Highest	4.027	Pass

TEST REPORT NUMBER: (8525)076-0053

Test plot as follows:

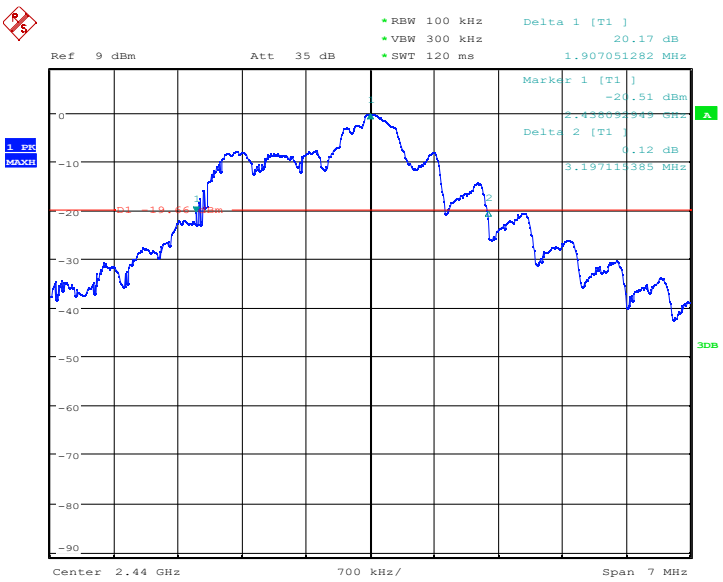
Test channel:	Lowest



Date: 7.APR.2025 19:45:13

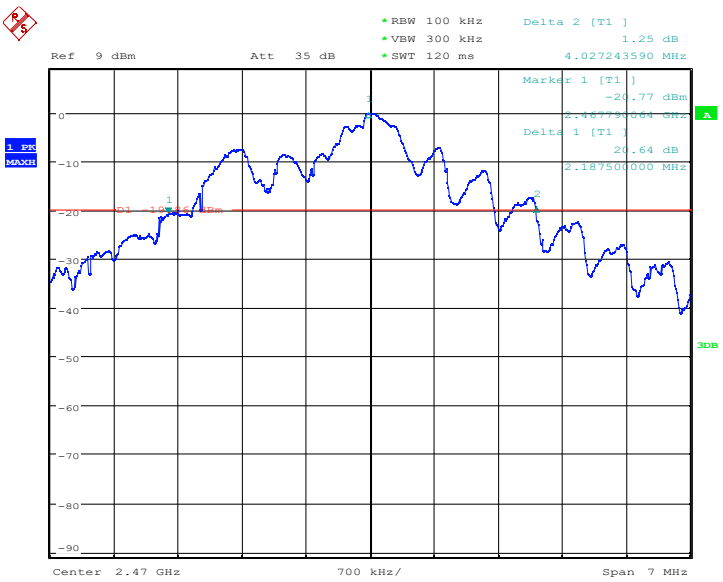
TEST REPORT NUMBER: (8525)076-0053

Test channel:	Middle



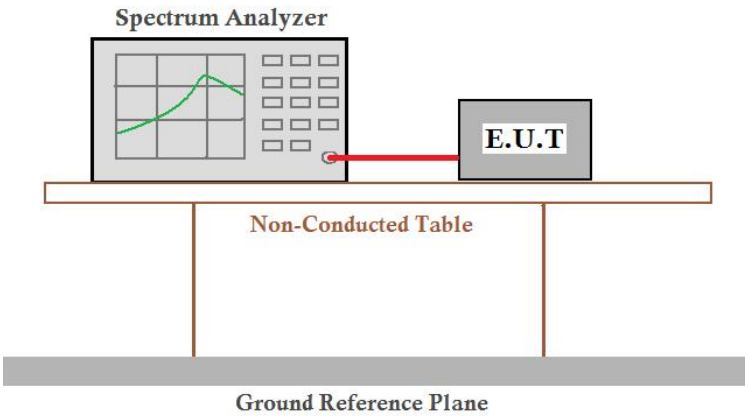
Date: 7.APR.2025 19:46:49

Test channel:	Highest



Date: 7.APR.2025 19:50:16

4.4 99% Occupy Bandwidth

Test Requirement:	RSS-Gen Issue 5:2018+A1:2019+A2:2021 Section 6.7
Test Method:	RSS-Gen Issue 5:2018+A1:2019+A2:2021 Section 6.7
Test Setup:	
Test Mode:	Transmitting with GFSK at lowest, middle and highest channel.
Test Procedure:	The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth: A:The transmitter shall be operated at its maximum carrier power measured under normal test conditions. B:The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span. C:The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously. D:The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.
Limit:	N/A
Test Results:	Pass

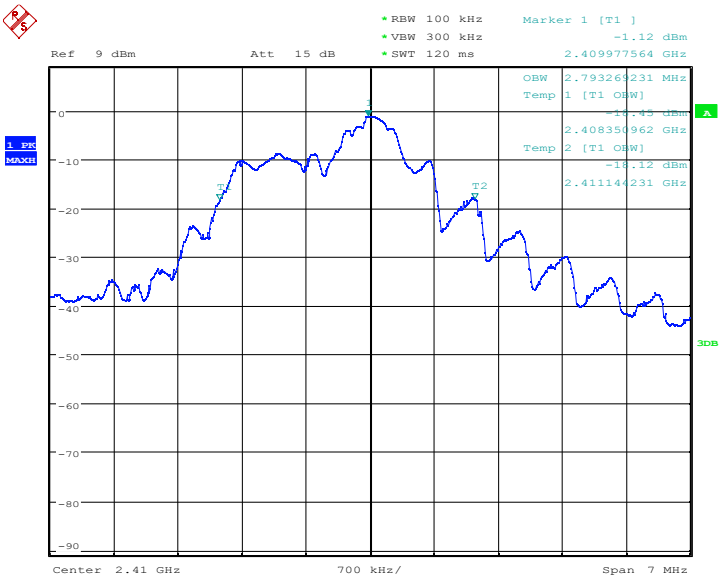
Measurement Data

Test channel	99% Occupy Bandwidth (MHz)	Results
Lowest	2.793	Pass
Middle	3.286	Pass
Highest	3.892	Pass

TEST REPORT NUMBER: (8525)076-0053

Test plot as follows:

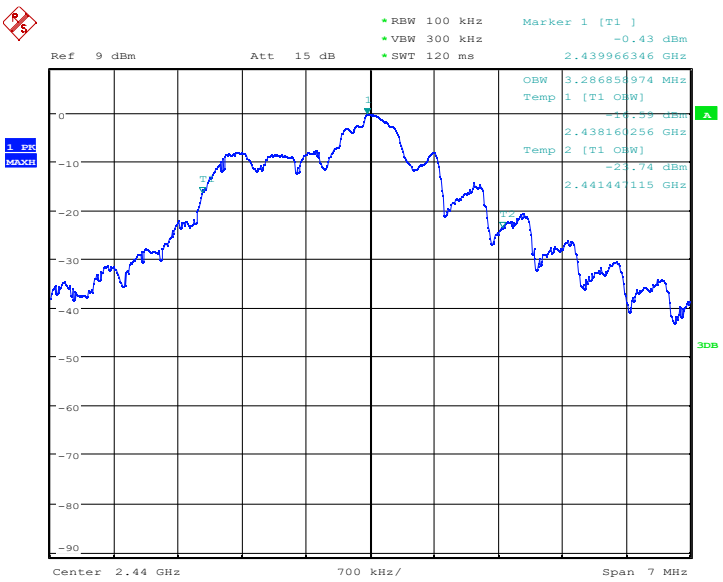
Test channel:	Lowest



Date: 7.APR.2025 19:44:12

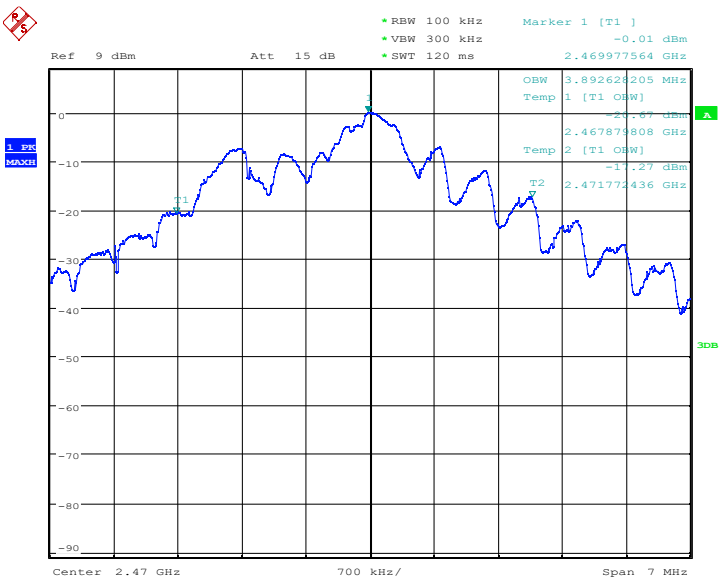
TEST REPORT NUMBER: (8525)076-0053

Test channel:	Middle



Date: 7.APR.2025 19:47:42

Test channel:	Highest



Date: 7.APR.2025 19:49:14

5 Photographs

Please refer to the photos Appendix A

5.1 EUT Constructional Details

Please refer to the photos Appendix B

*** END OF REPORT ***