



TEST REPORT

Applicant Name: Shine Flex US LLC

Address: 1259 Knollwood Raod Deerfield IL 60015 USA

Report Number: SZNS220214-04336E-RF-00

FCC ID: 2A4DDDXFHJJ

Test Standard (s)

FCC PART 95

Sample Description

Product Type: Walkie Talkie Two-way Radio

Model No.: DXFRS800

Multiple Model(s) No.: N/A

Trade Mark: DEWALT
Date Received: 2022/02/14
Report Date: 2022/03/09

Test Result: Pass*

Prepared and Checked By:

Approved By:

Robert li

Bluk Whe

Black Ding Robert Li

EMC Engineer EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "⋆ ".

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

Shenzhen Accurate Technology Co., Ltd.

1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China
Tel: +86 755-26503290 Fax: +86 755-26503396 Web: www.atc-lab.com

Version 26: 2021-11-09 Page 1 of 26 FCC- RF

^{*} In the configuration tested, the EUT complied with the standards above.

TABLE OF CONTENTS

GENERAL INFORMATION	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
Objective	
TEST METHODOLOGY	
Measurement Uncertainty	
SYSTEM TEST CONFIGURATION	
DESCRIPTION OF TEST CONFIGURATION	
EQUIPMENT MODIFICATIONS	
EXTERNAL I/O CABLE	
BLOCK DIAGRAM OF TEST SETUP	
SUMMARY OF TEST RESULTS	7
TEST EQUIPMENT LIST	8
§2.1093 - RF EXPOSURE INFORMATION	9
APPLICABLE STANDARD	9
TEST RESULT	9
FCC §95.587(B)(1)(2)(3) – ANTENNA REQUIREMENT	10
APPLICABLE STANDARD	
Antenna Description	10
FCC §2.1046 & §95.567 - RF OUTPUT POWER	11
APPLICABLE STANDARD	11
TEST PROCEDURE	
TEST DATA	
FCC §2.1047 & §95.575 - MODULATION CHARACTERISTIC	12
APPLICABLE STANDARD	
Test Procedure	
TEST DATA	12
FCC §2.1049 & §95.573 & §95.579 - AUTHOURIZED BANDWIDTH AND EMISSION MASK	18
APPLICABLE STANDARD	18
TEST PROCEDURE	_
Test Data	
FCC §2.1053 & §95.579- RADIATED SPURIOUS EMISSION	
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST DATA	
FCC§2.1055 (D) & §95.565 - FREQUENCY STABILITY	
APPLICABLE STANDARD	
TEST PROCEDURE	
LENLUATA	/ 7

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

Frequency Range	462.5500~462.7250MHz 467.5625~467.7125MHz
Transmit Power (ERP)	462.5500~462.7250MHz: 32.75dBm 467.5625~467.7125MHz: 26.55dBm
Channel Spacing	12.5kHz
Modulation Technique	FM
Antenna Specification*	-2.15dBi(It is provided by the applicant)
Voltage Range	DC 3.7V from battery or DC 5.5V from adapter for charging
Sample serial number	SZNS220214-04336E-RF-S1 for Radiation Emissions SZNS220214-04336E-RF-S2 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Extreme condition*	L.V.: Low Voltage 3.5V N.V.: Normal Voltage 3.7V H.V.: High Voltage 4.2V(provided by the applicant)
Adapter information	Model: K25A055300U Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 5.5V, 3.0A
Manufacturer Name	Shine Flex US LLC
Manufacturer Address	1259 Knollwood Road Deerfield IL 60015 USA
Factory 1 Name	Winner Sky Technology (M) Sdn. Bhd.
Factory 1 Address	PMT 759, JALAN CASSIA SELATAN 3/7, MK 13, TAMAN PERINDUSTRIAN BATU KAWAN,14110 PULAU PINANG,Malaysia
Factory 2 Name	Clearmoon Electronics (YunFu) Limited
Factory 2 Address	Building A, Part one of B2-02, Xincheng Industrial Park, Xincheng Town, XinXing County, YunFu City, Guangdong, P.R.C

Report No.: SZNS220214-04336E-RF-00

Objective

This test report is in accordance with Part 2 and Part 95, Subpart A & Subpart B of the Federal Communication Commissions rules.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with Part 95 Subpart A, Subpart B of the Federal Communication Commissions rules with TIA-603-E, Land Mobile FM or PM-Communications Equipment-Measurement and Performance Standards and ANSI C63.26-2015American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Version 26: 2021-11-09 Page 3 of 26 FCC- RF

Measurement Uncertainty

Parameter		Uncertainty	
Occupied Cha	nnel Bandwidth	5%	
RF output po	wer, conducted	0.73dB	
Unwanted Emission, conducted		1.6dB	
Emissions,	30MHz - 1GHz	4.28dB	
Radiated	1GHz - 18GHz	4.98dB	
Temperature		1°C	
Humidity		6%	
Supply	voltages	0.4%	

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

Version 26: 2021-11-09 Page 4 of 26 FCC- RF

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

Channel List

Report No.: SZNS220214-04336E-RF-00

Channel No.	Channel Frequency (MHz)	Channel No.	Channel Frequency (MHz)
1	462.5625	12	467.6625
2	462.5875	13	467.6875
3	462.6125	14	467.7125
4	462.6375	15	462.5500
5	462.6625	16	462.5750
6	462.6875	17	462.6000
7	462.7125	18	462.6250
8	467.5625	19	462.6500
9	467.5875	20	462.6750
10	467.6125	21	462.7000
11	467.6375	22	462.7250

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

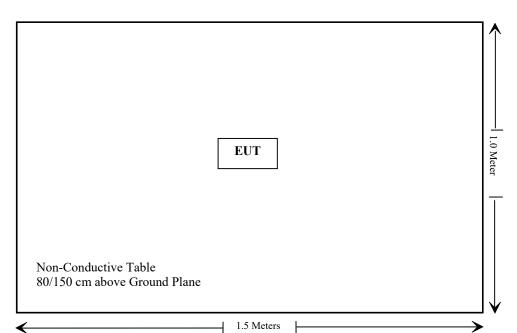
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	ength (m) From Port	
/	/	/	/

Version 26: 2021-11-09 Page 5 of 26 FCC- RF

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§2.1093	RF Exposure	Compliant
§95.587(b)(1)(2)(3)	Antenna Requirement	Compliant
§2.1046, §95.567	RF Output Power	Compliant
§2.1047, §95.575	Modulation Characteristic	Compliant
§2.1049, §95.573, §95.579	Authorized Bandwidth & Emission Mask	Compliant
§2.1053, §95.579	Radiated Spurious Emission	Compliant
§2.1055(d), §95.565	Frequency Stability	Compliant

Report No.: SZNS220214-04336E-RF-00

Version 26: 2021-11-09 Page 7 of 26 FCC- RF

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
Radiated Emission Test							
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12		
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12		
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08		
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08		
Schwarzbeck	Bilog Antenna	VULB9163	9163-194	2020/01/05	2023/01/04		
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05		
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-655	2020/01/05	2023/01/04		
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04		
	Radiated Emi	ssion Test Software	: e3 19821b (V9)				
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.16	N200	2021/12/14	2022/12/13		
Agilent	Signal Generator	N5183A	MY51040755	2021/12/13	2022/12/12		
		RF Conducted Tes	st				
SPECTRUM ANALYZER	Rohde & Schwarz	FSU26	200982	2021/07/06	2022/07/05		
HP Agilent	RF Communication test set	8920B	3325U00859	2021/03/15	2022/03/15		
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13		
Gongwen	Temp. & Humid. Chamber	HSD-500	109	2021/10/14	2022/10/13		
Fluke	Multi Meter	45	7664009	2021/12/14	2022/12/13		
Manson	DC Power Source	KPS-6604	ATCS-205	NCR	NCR		
Unknown	RF Cable	Unknown	Unknown	Each time	/		

^{*} Statement of Traceability: Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Version 26: 2021-11-09 Page 8 of 26 FCC- RF

§2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

§2.1093.

Test Result

Compliance, please refer to the SAR report: CR22020010-20A.

Version 26: 2021-11-09 Page 9 of 26 FCC- RF

FCC §95.587(b)(1)(2)(3) – ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 95.587, (b) Antenna. The antenna of each FRS transmitter type must meet the following requirements.

- (1) The antenna must be a non-removable integral part of the FRS transmitter type.
- (2) The gain of the antenna must not exceed that of a half-wave dipole antenna.
- (3) The antenna must be designed such that the electric field of the emitted waves is vertically polarized when the unit is operated in the normal orientation.

Report No.: SZNS220214-04336E-RF-00

Antenna Description

The EUT has an integral vertically ploarized antenna arrangement and the antenna gain is -2.15dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

Version 26: 2021-11-09 Page 10 of 26 FCC- RF

FCC §2.1046 & §95.567 - RF OUTPUT POWER

Applicable Standard

Per FCC §2.1046, and §95.567, Each FRS transmitter type must be designed such that the effective radiated power (ERP) on channels 8 through 14 does not exceed 0.5 Watts and the ERP on channels 1 through 7 and 15 through 22 does not exceed 2.0 Watts.

Report No.: SZNS220214-04336E-RF-00

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the emissions were measured by the substitution.

Test Data

Environmental Conditions

Temperature:	22~24 °C
Relative Humidity:	52~56 %
ATM Pressure:	101.0 kPa

The testing was performed by Chao Mo on 2022-02-21 and 2022-02-28.

Test Mode: Transmitting

- Receive		Receiver T	Rx Ante	nna	Substituted	Absolute		
Frequency (MHz) Reading (dBm)	Reading	ing Turntable	Height (m)	Polar (H/V)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
	Channel 4, 462.6375MHz							
462.6375	13.85	279	2.5	Н	9.1	22.95	33	-10.05
462.6375	27.75	253	2.2	V	5.0	32.75	33	-0.25
			Channel 1	1, 467.63	75MHz			
467.6375	10.15	353	1.8	Н	8.3	18.45	27	-8.55
467.6375	21.15	52	1.8	V	5.4	26.55	27	-0.45

Note:

Absolute Level = Reading Level + Substituted Factor

Substituted Factor contains: SG Level - Cable loss+ Antenna Gain

Margin = Absolute Level - Limit

Test Result: Compliant.

Version 26: 2021-11-09 Page 11 of 26 FCC- RF

FCC §2.1047 & §95.575 - MODULATION CHARACTERISTIC

Applicable Standard

Per FCC §2.1047 and §95.575: Each FRS transmitter type must be designed such that the peak frequency deviation does not exceed 2.5 kHz, and the highest audio frequency contributing substantially to modulation must not exceed 3.125 kHz.

Report No.: SZNS220214-04336E-RF-00

Test Procedure

Test Method: TIA/EIA-603-E/ANSI C63.26-2015

Test Data

Environmental Conditions

Temperature:	28.4 °C
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2022-02-15.

Please refer to the following tables and plots.

Test Mode: Transmitting

Version 26: 2021-11-09 Page 12 of 26 FCC- RF

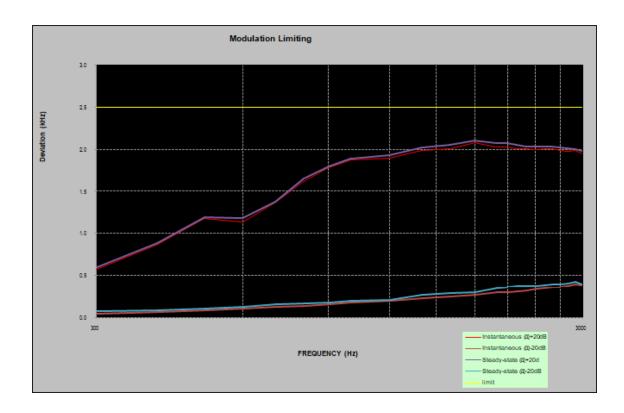
MODULATION LIMITING

Report No.: SZNS220214-04336E-RF-00

Carrier Frequency: 462.6375MHz

	Instantaneous		Steady		
Audio Frequency (Hz)	DEVIATION (@+20dB) [kHz]	DEVIATION (@-20dB) [kHz]	DEVIATION (@+20dB) [kHz]	DEVIATION (@-20dB) [kHz]	Limit [kHz]
300	0.574	0.045	0.594	0.076	2.500
400	0.868	0.060	0.889	0.084	2.500
500	1.180	0.088	1.192	0.105	2.500
600	1.140	0.103	1.184	0.123	2.500
700	1.368	0.130	1.379	0.154	2.500
800	1.614	0.134	1.658	0.168	2.500
900	1.779	0.154	1.794	0.179	2.500
1000	1.873	0.172	1.892	0.195	2.500
1200	1.901	0.195	1.935	0.204	2.500
1400	1.991	0.227	2.024	0.269	2.500
1600	2.013	0.250	2.053	0.286	2.500
1800	2.080	0.272	2.108	0.296	2.500
2000	2.026	0.300	2.077	0.352	2.500
2100	2.028	0.303	2.078	0.363	2.500
2200	2.013	0.313	2.054	0.372	2.500
2300	2.004	0.317	2.035	0.368	2.500
2400	2.003	0.337	2.033	0.369	2.500
2500	2.008	0.352	2.038	0.386	2.500
2600	2.005	0.359	2.032	0.396	2.500
2700	1.990	0.358	2.021	0.391	2.500
2800	1.980	0.371	2.012	0.401	2.500
2900	1.991	0.392	2.001	0.421	2.500
3000	1.952	0.378	1.987	0.392	2.500

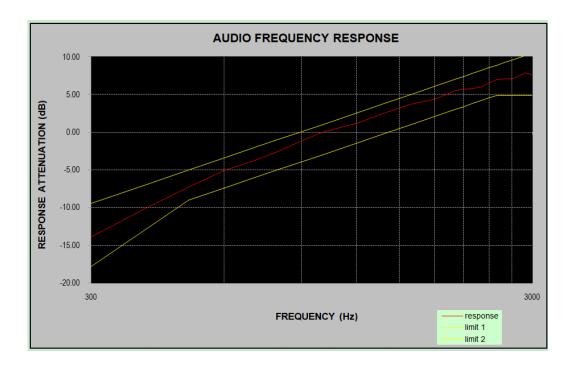
Version 26: 2021-11-09 Page 13 of 26 FCC- RF



Audio Frequency Response

Carrier Frequency: 462.6375MHz

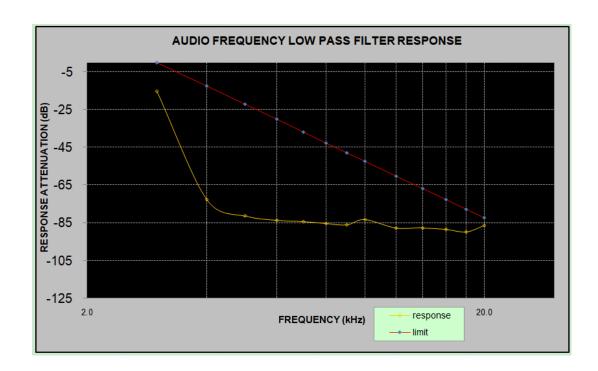
Audio Frequency (Hz)	Response Attenuation (dB)
300	-13.89
400	-10.06
500	-7.25
600	-5.07
700	-3.77
800	-2.52
900	-1.13
1000	0.00
1200	1.18
1400	2.65
1600	3.78
1800	4.37
2000	5.51
2100	5.69
2200	5.79
2300	6.01
2400	6.59
2500	7.00
2600	7.12
2700	7.12
2800	7.44
2900	7.89
3000	7.65



Audio frequency lows pass filter response

Carrier Frequency: 462.6375MHz

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
1.0	0.0	/
3.0	-15.21	0.0
4.0	-72.69	-12.5
5.0	-81.34	-22.2
6.0	-83.69	-30.1
7.0	-84.21	-36.8
8.0	-85.32	-42.6
9.0	-86.12	-47.7
10.0	-83.24	-52.3
12.0	-87.85	-60.2
14.0	-87.62	-66.9



Version 26: 2021-11-09 Page 17 of 26 FCC- RF

FCC §2.1049 & §95.573 & §95.579 - AUTHOURIZED BANDWIDTH AND EMISSION MASK

Report No.: SZNS220214-04336E-RF-00

Applicable Standard

According to §95.573. Each FRS transmitter type must be designed such that the occupied bandwidth does not exceed 12.5 kHz.

Each FRS transmitter type must be designed to satisfy the applicable unwanted emissions limits in this paragraph.

- (a) Attenuation requirements. The power of unwanted emissions must be attenuated below the carrier power output in Watts (P) by at least:
- (1) 25 dB (decibels) in the frequency band 6.25 kHz to 12.5 kHz removed from the channel center frequency.
- (2) 35 dB in the frequency band 12.5 kHz to 31.25 kHz removed from the channel center frequency.
- (3) 43 + 10 log (P) dB in any frequency band removed from the channel center frequency by more than 31.25 kHz.
- (b) Measurement bandwidths. The power of unwanted emissions in the frequency bands specified in paragraphs (a)(1) and (2) of this section is measured with a reference bandwidth of 300 Hz. The power of unwanted emissions in the frequency range specified in paragraph (a)(3) is measured with a reference bandwidth of at least 30 kHz.

Test Procedure

TIA-603-E, section 2.2.11

Test Data

Environmental Conditions

Temperature:	28.4 °C	
Relative Humidity:	53 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Black Ding on 2022-02-15.

Test Mode: Transmitting

Version 26: 2021-11-09 Page 18 of 26 FCC- RF

Frequency	Channel Separation (kHz)	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)
Analog	12.5	462.6375	9.856	12.5
Analog 12.5	467.6375	9.856	12.5	

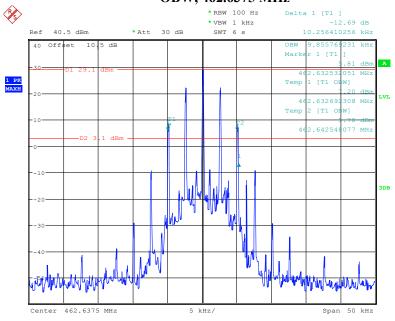
Emission Designator Per CFR 47 $\S 2.201\& \S 2.202\&$, Bn = 2M + 2D :

Emission Designator 11K0F3E In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation. BW = $2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} \rightarrow 11K0$

F3E portion of the designator represents an FM voice transmission Therefore, the entire designator for 12.5 kHz channel spacing FM mode is 11K0F3E.

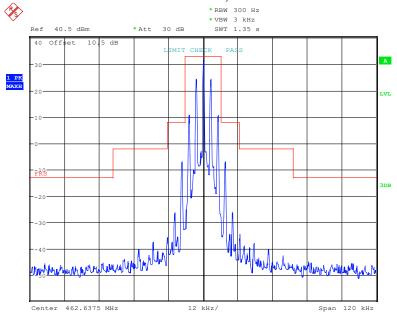
Version 26: 2021-11-09 Page 19 of 26 FCC- RF

OBW, 462.6375 MHz



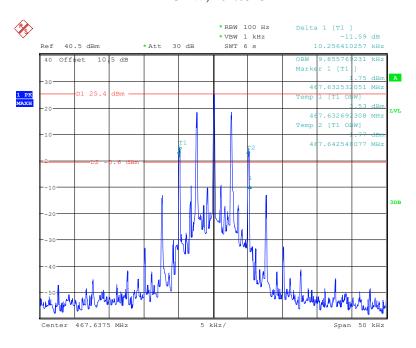
Date: 15.FEB.2022 19:55:36

Emission Mask, 462.6375 MHz



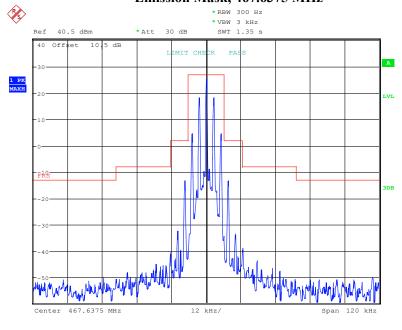
Date: 15.FEB.2022 20:51:45

OBW, 467.6375 MHz



Date: 15.FEB.2022 20:10:35

Emission Mask, 467.6375 MHz



Date: 15.FEB.2022 20:50:15

FCC §2.1053 & §95.579- RADIATED SPURIOUS EMISSION

Applicable Standard

FCC §2.1053 and §95.579. Each FRS transmitter type must be designed to satisfy the applicable unwanted emissions limits in this paragraph.

Report No.: SZNS220214-04336E-RF-00

- (a) Attenuation requirements. The power of unwanted emissions must be attenuated below the carrier power output in Watts (P) by at least:
- (1) 25 dB (decibels) in the frequency band 6.25 kHz to 12.5 kHz removed from the channel center frequency.
- (2) 35 dB in the frequency band 12.5 kHz to 31.25 kHz removed from the channel center frequency.
- (3) 43 + 10 log (P) dB in any frequency band removed from the channel center frequency by more than 31.25 kHz.
- (b) Measurement bandwidths. The power of unwanted emissions in the frequency bands specified in paragraphs (a)(1) and (2) of this section is measured with a reference bandwidth of 300 Hz. The power of unwanted emissions in the frequency range specified in paragraph (a)(3) is measured with a reference bandwidth of at least 30 kHz.
- (c) *Measurement conditions*. The requirements in this section apply to each FRS transmitter type both with and without the connection of permitted attachments, such as an external speaker, microphone and/or power cord.

Test Procedure

The transmitter was placed on a wooden turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 1g (TXpwr in Watts/0.001)-the absolute level Spurious attenuation limit in dB = $43+10 Log_{10}$ (power out in Watts)

Version 26: 2021-11-09 Page 22 of 26 FCC- RF

Test Data

Environmental Conditions

Temperature:	22~24 °C	
Relative Humidity:	52~56 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Chao Mo on 2022-02-21 and 2022-02-28.

Report No.: SZNS220214-04336E-RF-00

Test Mode: Transmitting

Receiver			Rx Ante	nna	Substituted	Absolute		
Frequency (MHz)	Reading (dBm)	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
			462.	6375MH	Z			•
925.28	-41.43	283	1.8	Н	9.3	-32.13	-13	-19.13
925.28	-42.83	204	2.4	V	11.5	-31.33	-13	-18.33
1387.91	-54.7	18	1.7	Н	6.0	-48.70	-13	-35.70
1387.91	-49.3	8	1.3	V	5.8	-43.50	-13	-30.50
1850.55	-36.6	187	2.2	Н	4.4	-32.20	-13	-19.20
1850.55	-27.6	90	2.3	V	3.6	-24.00	-13	-11.00
2313.19	-40.4	231	1	Н	7.2	-33.20	-13	-20.20
2313.19	-42.5	141	1.1	V	6.7	-35.80	-13	-22.80
2775.83	-50.8	57	1.7	Н	6.7	-44.10	-13	-31.10
2775.83	-48.6	221	2.3	V	6.3	-42.30	-13	-29.30
3238.46	-45.4	289	2	Н	7.0	-38.40	-13	-25.40
3238.46	-41.2	98	1.7	V	6.3	-34.90	-13	-21.90
3701.10	-42.9	333	2.2	Н	7.1	-35.80	-13	-22.80
3701.10	-43.4	328	2	V	7.6	-35.80	-13	-22.80
			467.	.6375MH	z			
935.28	-41.75	94	1.5	Н	9.3	-32.45	-13	-19.45
935.28	-43.26	32	1.1	V	11.5	-31.76	-13	-18.76
1402.91	-50.2	176	1.6	Н	5.9	-44.30	-13	-31.30
1402.91	-49.1	162	2	V	5.8	-43.30	-13	-30.30
1870.55	-36.5	252	1.1	Н	4.2	-32.30	-13	-19.30
1870.55	-35	137	1.4	V	3.4	-31.60	-13	-18.60
2338.19	-49.8	29	2.5	Н	7.3	-42.50	-13	-29.50
2338.19	-46.7	251	1.6	V	6.5	-40.20	-13	-27.20
2805.83	-51.3	147	1.9	Н	6.8	-44.50	-13	-31.50
2805.83	-49	248	1.2	V	6.7	-42.30	-13	-29.30
3273.46	-42.8	255	1.8	Н	6.7	-36.10	-13	-23.10
3273.46	-39.9	307	1.1	V	5.9	-34.00	-13	-21.00
3741.10	-44.8	344	1.4	Н	8.8	-36.00	-13	-23.00
3741.10	-41.1	330	2.2	V	7.9	-33.20	-13	-20.20

Note:

Absolute Level = Reading Level + Substituted Factor Substituted Factor contains: SG Level - Cable loss+ Antenna Gain

Margin = Absolute Level - Limit

Version 26: 2021-11-09 Page 24 of 26 FCC- RF

FCC§2.1055 (d) & §95.565 - FREQUENCY STABILITY

Applicable Standard

According to FCC §2.1055(a) (1), the frequency stability shall be measured with variation of ambient temperature from –30 °C to +50 °C, and according to FCC 2.1055(d) (2), the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point which is specified by the manufacturer.

Report No.: SZNS220214-04336E-RF-00

According to FCC $\S95.565$, Each FRS transmitter type must be designed such that the carrier frequencies remain within ± 2.5 parts-per-million of the channel center frequencies specified in $\S95.563$ during normal operating conditions.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Frequency Counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Frequency Counter.

Frequency Stability vs. Voltage (item 1 or item 2 will be chosen according to different condition):

- □1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
- ⊠2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.

The output frequency was recorded for each voltage.

Test Data

Environmental Conditions

Temperature:	28.4 °C	
Relative Humidity:	53 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Black Ding on 2022-02-15.

Test Mode: Transmitting

Version 26: 2021-11-09 Page 25 of 26 FCC- RF

Reference Frequency:462.6375MHz, Limit:2.5 ppm, 12.5kHz				
Environment Temperature (°C)	Power Supplied (V _{DC})	Measurement Frequency (MHz)	Frequency Error (ppm)	
	Frequency Stability vo	ersus Input Temperature		
50	N.V.	462.637285	-0.46	
40	N.V.	462.637275	-0.49	
30	N.V.	462.637232	-0.58	
20	N.V.	462.637291	-0.45	
10	N.V.	462.637305	-0.42	
0	N.V.	462.637298	-0.44	
-10	N.V.	462.637293	-0.45	
-20	N.V.	462.637278	-0.48	
-30	N.V.	462.637288	-0.46	
Frequency Stability versus Input Voltage				
20	L.V.	462.637295	-0.44	
20	H.V.	462.637289	-0.46	

Reference Frequency:467.6375 MHz, Limit:2.5 ppm, 12.5kHz				
Environment Temperature (°C)	Power Supplied (V _{DC})	Measurement Frequency (MHz)	Frequency Error (ppm)	
	Frequency Stability v	ersus Input Temperature		
50	N.V.	467.637212	-0.62	
40	N.V.	467.637235	-0.57	
30	N.V.	467.637254	-0.53	
20	N.V.	467.637264	-0.50	
10	N.V.	467.637267	-0.50	
0	N.V.	467.637269	-0.49	
-10	N.V.	467.637273	-0.49	
-20	N.V.	467.637268	-0.50	
-30	N.V.	467.637262	-0.51	
Frequency Stability versus Input Voltage				
20	L.V.	467.637266	-0.50	
20	H.V.	467.637263	-0.51	

***** END OF REPORT *****

Version 26: 2021-11-09 Page 26 of 26 FCC- RF