



TEST REPORT

Applicant Name: Cobra Electronics Corporation

Address: 6500 West Cortland Street, Chicago, Illinois, United States. 60707

Report Number: SZNS220901-39741E-RF-00

FCC ID: BBO29LXA

Test Standard (s)

FCC PART 95

Sample Description

Product Type: CB Radio Model No.: 29 LX

Multiple Model(s) No.: 29LXOEM B (Please refer to DOS for Model difference)

Trade Mark: Cobra

Date Received: 2022/09/01 Report Date: 2022/09/30

Test Result: Pass*

Prepared and Checked By: Approved By:

Nick Fang Candy. Li

Nick Fang Candy 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 " \star ".

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.

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Shenzhen Accurate Technology Co., Ltd.

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

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

Frequency Range	26.965-27.405MHz			
Rated Output Power	4 Watts			
Modulation Technique	AM			
Antenna Specification*	0dBi(It is provided by the applicant)			
Voltage Range	DC 10.8~15.6V			
Sample serial number	SZNS220901-39741E-RF-S1 (Assigned by ATC)			
Sample/EUT Status Good condition				
Note: Pre-scan all models, the worst	Note: Pre-scan all models, the worst case model 29 LX was selected to test.			

Report No.: SZNS220901-39741E-RF-00

Objective

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

Test Methodology

EIA/TIA-382-A:Minimum standards – Citizens Band Radio Service Amplitude Modulation (AM) Transceivers Operation in the 27MHz Band.

ANSI/TIA-603-E-2016: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards

ANSI C63.26-2015: American 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.

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Measurement Uncertainty

Parameter		Uncertainty
Occupied Cha	nnel Bandwidth	5%
RF Fre	equency	$0.082*10^{-7}$
RF output po	wer, conducted	0.73dB
Unwanted Emission, conducted		1.6dB
Modulation Limiting		1%
	9kHz - 30MHz	2.66dB
Emissions, Radiated	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.

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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

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Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	26.965	11	27.085	21	27.215	31	27.315
2	26.975	12	27.105	22	27.225	32	27.325
3	26.985	13	27.115	23	27.255	33	27.335
4	27.005	14	27.125	24	27.235	34	27.345
5	27.015	15	27.135	25	27.245	35	27.355
6	27.025	16	27.155	26	27.265	36	27.365
7	27.035	17	27.165	27	27.275	37	27.375
8	27.055	18	27.175	28	27.285	38	27.385
9	27.065	19	27.185	29	27.295	39	27.395
10	27.075	20	27.205	30	27.305	40	27.405

Channel 19 was selected to test.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	Load	50ohm/100W	Unknown
Unknown	Speaker	Unknown	Unknown
UNI-T	DC Power Supply	UTP1306S	2109D0903324
Unknown	Earphone	Unknown	Unknown

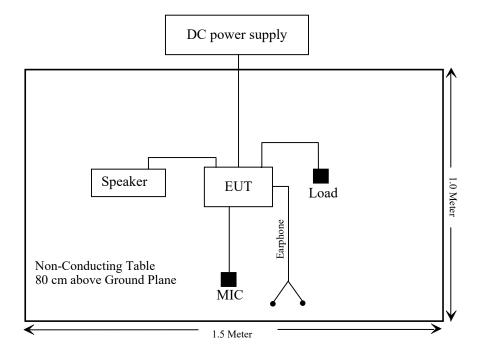
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External I/O Cable

Cable Description	Length (m)	From Port	То
Un-Shielding Detachable DC Cable	1.0	EUT	DC power supply

Block Diagram of Test Setup

For radiated emission:



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§1.1310, §2.1091	Maximum Permissible Exposure(MPE)	Compliance
§2.1046, §95.967	RF Output Power	Compliance
§2.1047, §95.975	Modulation Characteristic	Compliance
§2.1049, §95.973, §95.979	Occupied Bandwidth & Emission Mask	Compliance
§2.1053, §95.979	Spurious Radiation Emission	Compliance
§ 2.1051, § 95.979	Conducted Spurious at Antenna Terminals	Compliance
§2.1055, §95.965	Frequency Stability	Compliance

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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			
SONOMA INSTRUMENT	Amplifier	310 N	186131	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	LOOP ANTENNA	FMZB1516	1516131	2021/12/22	2024/12/21			
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	RFCoaxialCable	No.16	N200	2021/12/14	2022/12/13			
Agilent	Signal Generator	N5183A	MY51040755	2021/12/13	2022/12/12			
		RF Conducted te	st					
SPECTRUM ANALYZER	Rohde & Schwarz	FSU26	200982	2022/07/06	2023/07/05			
HP Agilent	RF Communication test set	8920B	3325U00859	2021/12/14	2022/12/13			
Aeroflex/Weinschel	30dB Attenuator	58-30-33	PS467	2021/12/14	2022/12/13			
Mini-Circuits	High pass filter	NHP-50+	15542	2021/11/29	2022/11/28			
Fluke	Multi Meter	45	7664009	2021/12/14	2022/12/13			
Manson	DC Power Source	KPS-6604	ATCS-205	NCR	NCR			
Gongwen	Temp. & Humid. Chamber	HSD-500	109	2021/10/14	2022/10/13			

^{*} 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).

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§1.1310, §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

According to subpart 1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

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Limits for General Population/Uncontrolled Exposure						
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (Minutes)		
0.3-1.34	614	1.63	*(100)	30		
1.34-30	824/f	2.19/f	$*(180/f^2)$	30		
30-300	27.5	0.073	0.2	30		
300-1500	/	/	f/1500	30		
1500-100,000	/	/	1.0	30		

f = frequency in MHz

* = Plane-wave equivalent power density

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Frequency	Maximum Antenna Gain		Tune up conducted power	MPE Limit	Minimum safety distance
(MHz)	(dBi)	(numeric)	(mW)	(mW/cm ²)	(cm)
26.965-27.405	0	1	4000	0.24	36.43

Note: the antenna gain and tune up power was provide by applicant.

To maintain compliance with the FCC's RF exposure guidelines, please place the CB radio antenna at least 36.43cm from nearby persons.

Result: Compliance

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FCC §2.1046 & §95.967 - RF OUTPUT POWER

Applicable Standard

Per FCC §95.967: Each CBRS transmitter type must be designed such that the transmitter power can not exceed the following limits:

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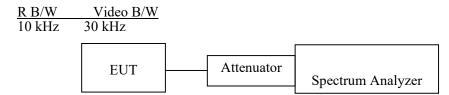
(a) When transmitting amplitude modulated (AM) voice signals or frequency modulated (FM) voice signals, the mean carrier power must not exceed 4 Watts.

Test Procedure

Conducted RF Output Power:

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

Spectrum Analyzer Setting:



Note: the path loss(cable loss and attenuator) has included into the plot.

Test Data

Environmental Conditions

Temperature:	25 °C	
Relative Humidity:	51 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Cat Kang on 2022-09-23.

Test Mode: Transmitting

AM:

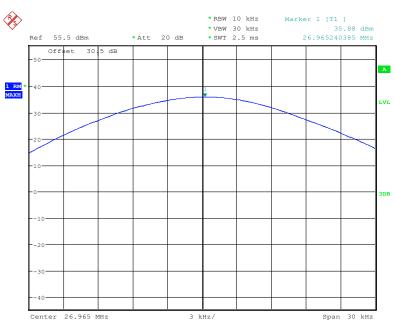
Fc (MHz)	Reading (dBm)	Power (Watt)	Limit (Watt)
26.965	35.88	3.87	
27.185	35.85	3.85	4.0
27.405	35.68	3.70	

Test Result: Compliance.

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AM:





Date: 23.SEP.2022 09:16:19

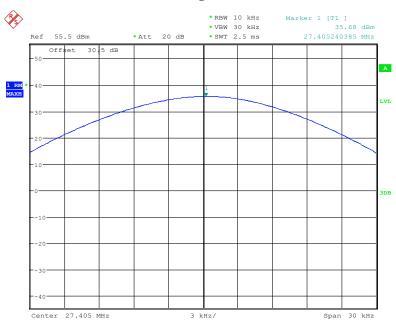
Middle Channel



Date: 23.SEP.2022 09:14:17

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High Channel



Date: 23.SEP.2022 09:16:51

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FCC §2.1047 & §95.975 - MODULATION CHARACTERISTIC

Applicable Standard

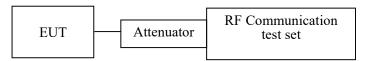
Per FCC §95.975: Each CBRS transmitter type must be designed such that the modulation characteristics are in compliance with the rules in this section.

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- (a) When emission type A3E is transmitted with voice modulation, the modulation percentage must be at least 85%, but not more than 100%.
- (b) When emission type A3E is transmitted by a CBRS transmitter having a transmitter output power of more than 2.5 W, the transmitter must contain a circuit that automatically prevents the modulation percentage from exceeding 100%.
- (c) When emission type F3E is transmitted the peak frequency deviation shall not exceed ± 2 kHz.

Test Procedure

EIA/TIA-382-A Section 24.2 and section 25.2. ANSI/TIA-603-E-2016 Section 2.2.3



Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Cat Kang on 2022-09-23.

Please refer to the following tables and plots.

Test Mode: Transmitting

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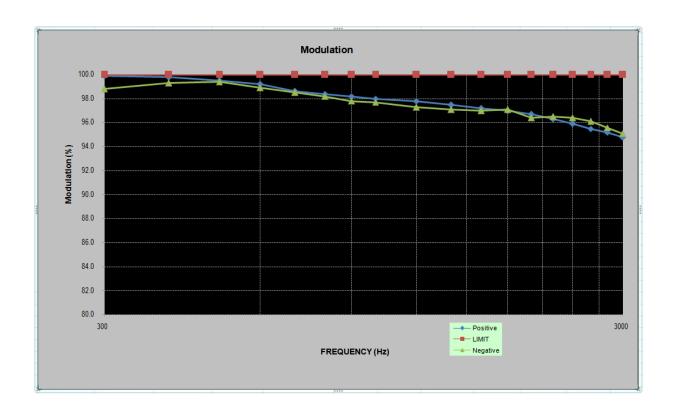
AM:

Modulation limiting

Carrier Frequency: 27.185MHz

	Modulation		
Audio Frequency (Hz)	Positive	Negative	Limit [%]
300	99.900	98.800	100.000
400	99.800	99.300	100.000
500	99.500	99.400	100.000
600	99.200	98.900	100.000
700	98.600	98.500	100.000
800	98.400	98.200	100.000
900	98.200	97.800	100.000
1000	98.000	97.700	100.000
1200	97.800	97.300	100.000
1400	97.500	97.100	100.000
1600	97.200	97.000	100.000
1800	97.000	97.100	100.000
2000	96.700	96.400	100.000
2200	96.300	96.500	100.000
2400	95.900	96.400	100.000
2600	95.500	96.100	100.000
2800	95.200	95.600	100.000
3000	94.800	95.100	100.000

Note: Audio input level (the 40dB above 0dB reference): 113.5dBuV



FCC §2.1049 & §95.973 & §95.979- OCCUPIED BANDWIDTH AND EMISSION MASK

Applicable Standard

According to §95.973: Each CBRS transmitter type must be designed such that the occupied bandwidth does not exceed the authorized bandwidth for the emission type under test.

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- (a) AM and FM. The authorized bandwidth for emission types A3E and F3E is 8 kHz.
- (b) SSB. The authorized bandwidth for emission types J3E, R3E, and H3E is 4 kHz.

According to §95.979: Each CBRS transmitter type must be designed to comply with the applicable unwanted emissions limits in this section.

(a) Attenuation requirements. The power of unwanted emissions must be attenuated below the transmitter output power in Watts (P) as specified in the applicable paragraphs listed in the following table:

Emission type	Paragraph
A3E, F3E	(1), (3), (5), (6)
H3E, J3E, R3E	(2), (4), (5), (6)

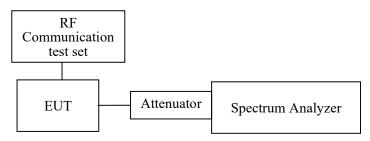
- (1) 25 dB (decibels) in the frequency band 4 kHz to 8 kHz removed from the channel center frequency;
- (2) 25 dB in the frequency band 2 kHz to 6 kHz removed from the channel center frequency;
- (3) 35 dB in the frequency band 8 kHz to 20 kHz removed from the channel center frequency;
- (4) 35 dB in the frequency band 6 kHz to 10 kHz removed from the channel center frequency;
- (5) 53 + 10 log (P) dB in any frequency band removed from the channel center frequency by more than 250% of the authorized bandwidth.
- (6) 60 dB in any frequency band centered on a harmonic (*i.e.*, an integer multiple of two or more times) of the carrier frequency.
- (b) Measurement bandwidths. The power of unwanted emissions in the frequency bands specified in paragraphs (a)(1) through (4) of this section is measured with a reference bandwidth of 300 Hz. The power of unwanted emissions in the frequency ranges specified in paragraphs (a)(5) and (6) of this section is measured with a reference bandwidth of at least 30 kHz.
- (c) Measurement conditions and procedures. Subject to additional measurement standards and procedures established pursuant to part 2, subpart J, the following conditions and procedures must be used.
- (1) The unwanted emissions limits requirements in this section must be met both with and without the connection of permitted attachments, such as external speakers, microphones, power cords and/or antennas.
- (2) Either mean power output or peak envelope power output may be used for measurements, as appropriate for the emission type under test, provided that the same type of power measurement is used for both the transmitter output power and the power of the unwanted emissions.

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Test Procedure

EIA/TIA-382-A Section 23.2. ANSI/TIA-603-E-2016 Section 2.2.11



Note: the path loss(cable loss and attenuator) has included into the plot.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Cat Kang on 2022-09-23.

Test Mode: Transmitting

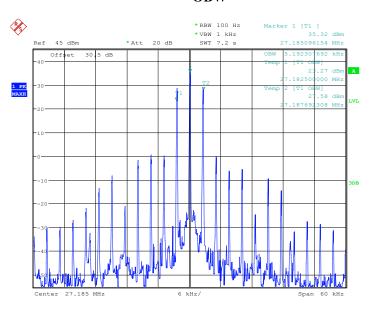
AM:

Frequency (MHz)	OBW (kHz)	Limit (kHz)	Result
27.185	5.192	8	Pass

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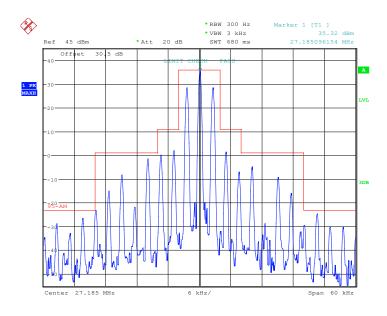
AM:

OBW



Date: 23.SEP.2022 09:21:45

Emission Mask



Date: 23.SEP.2022 09:23:42

Applicable Standard

FCC §2.1053 and §95.979: Each CBRS transmitter type must be designed to comply with the applicable unwanted emissions limits in this section.

Report No.: SZNS220901-39741E-RF-00

(a) Attenuation requirements. The power of unwanted emissions must be attenuated below the transmitter output power in Watts (P) as specified in the applicable paragraphs listed in the following table:

Emission type	Paragraph
A3E, F3E	(1), (3), (5), (6)
H3E, J3E, R3E	(2), (4), (5), (6)

- (1) 25 dB (decibels) in the frequency band 4 kHz to 8 kHz removed from the channel center frequency;
- (2) 25 dB in the frequency band 2 kHz to 6 kHz removed from the channel center frequency;
- (3) 35 dB in the frequency band 8 kHz to 20 kHz removed from the channel center frequency;
- (4) 35 dB in the frequency band 6 kHz to 10 kHz removed from the channel center frequency;
- (5) 53 + 10 log (P) dB in any frequency band removed from the channel center frequency by more than 250% of the authorized bandwidth.
- (6) 60 dB in any frequency band centered on a harmonic (i.e., an integer multiple of two or more times) of the carrier frequency.
- (b) Measurement bandwidths. The power of unwanted emissions in the frequency bands specified in paragraphs (a)(1) through (4) of this section is measured with a reference bandwidth of 300 Hz. The power of unwanted emissions in the frequency ranges specified in paragraphs (a)(5) and (6) of this section is measured with a reference bandwidth of at least 30 kHz.
- (c) *Measurement conditions and procedures*. Subject to additional measurement standards and procedures established pursuant to part 2, subpart J, the following conditions and procedures must be used.
- (1) The unwanted emissions limits requirements in this section must be met both with and without the connection of permitted attachments, such as external speakers, microphones, power cords and/or antennas.
- (2) Either mean power output or peak envelope power output may be used for measurements, as appropriate for the emission type under test, provided that the same type of power measurement is used for both the transmitter output power and the power of the unwanted emissions.

Test Procedure

EIA/TIA-382-A Section 22.2. ANSI/TIA-603-E-2016 Section 2.2.12

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Test Data

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Zeki Ma on 2022-09-12.

Test Mode: Transmitting(Pre-scan in the X,Y and Z axes of orientation, the worst case orientation was recorded)

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9kHz-1GHz:

AM:

	Receiver	_	Rx Antenna		Substituted	Absolute		
Frequency (MHz)	Reading (dBm)	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
			27.	185MHz				
190.30	-37.25	139	1.5	Н	-1.7	-38.95	-24	14.95
190.30	-33.55	120	1.7	V	-0.1	-33.65	-24	9.65
217.48	-45.4	85	2.1	Н	3.4	-42	-24	18
217.48	-25.7	348	1.2	V	-1.8	-27.5	-24	3.5
244.67	-34.7	6	1.1	Н	7.5	-27.2	-24	3.2
244.67	-31.8	204	1.9	V	-1.3	-33.1	-24	9.1
271.85	-30.5	319	1.2	Н	3.2	-27.3	-24	3.3
271.85	-39.2	243	1.8	V	1.5	-37.7	-24	13.7
299.04	-26.9	65	1.3	Н	0.5	-26.4	-24	2.4
299.04	-38.2	269	1.6	V	2.4	-35.8	-24	11.8
326.22	-27.24	180	1.8	Н	-0.7	-27.94	-24	3.94
326.22	-38.44	38	1.4	V	2.8	-35.64	-24	11.64
353.41	-36.08	281	2.1	Н	0.4	-35.68	-24	11.68
353.41	-45.28	247	2.1	V	5.1	-40.18	-24	16.18
516.52	-36.07	49	1.3	Н	1.8	-34.27	-24	10.27
516.52	-42.37	250	1.1	V	7.6	-34.77	-24	10.77

Note:

Absolute Level = Reading Level + Substituted Factor

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

Margin = Limit - Absolute Level

Limit for harmonic: 60dB below the rated power = 36dBm-60dB=-24dBm

Limit for frequencies other than harmonic (exclude $fc \pm 250\%$ authorized bandwidth): $53 + 10 \log (P) dB$ below the rated power=-23dBm

The other spurious emission which is 20dB to the limit was not recorded.

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FCC§2.1051 & §95.979 - CONDUCTED SPURIOUS AT ANTENNA TERMINALS

Applicable Standard

FCC §2.1051 and §95.979: Each CBRS transmitter type must be designed to comply with the applicable unwanted emissions limits in this section.

Report No.: SZNS220901-39741E-RF-00

(a) Attenuation requirements. The power of unwanted emissions must be attenuated below the transmitter output power in Watts (P) as specified in the applicable paragraphs listed in the following table:

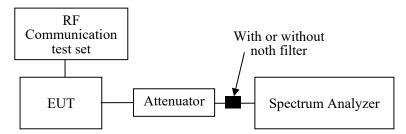
Emission type	Paragraph
A3E, F3E	(1), (3), (5), (6)
H3E, J3E, R3E	(2), (4), (5), (6)

- (1) 25 dB (decibels) in the frequency band 4 kHz to 8 kHz removed from the channel center frequency;
- (2) 25 dB in the frequency band 2 kHz to 6 kHz removed from the channel center frequency;
- (3) 35 dB in the frequency band 8 kHz to 20 kHz removed from the channel center frequency;
- (4) 35 dB in the frequency band 6 kHz to 10 kHz removed from the channel center frequency;
- (5) $53 + 10 \log (P) dB$ in any frequency band removed from the channel center frequency by more than 250% of the authorized bandwidth.
- (6) 60 dB in any frequency band centered on a harmonic (i.e., an integer multiple of two or more times) of the carrier frequency.
- (b) Measurement bandwidths. The power of unwanted emissions in the frequency bands specified in paragraphs (a)(1) through (4) of this section is measured with a reference bandwidth of 300 Hz. The power of unwanted emissions in the frequency ranges specified in paragraphs (a)(5) and (6) of this section is measured with a reference bandwidth of at least 30 kHz.
- (c) *Measurement conditions and procedures*. Subject to additional measurement standards and procedures established pursuant to part 2, subpart J, the following conditions and procedures must be used.
- (1) The unwanted emissions limits requirements in this section must be met both with and without the connection of permitted attachments, such as external speakers, microphones, power cords and/or antennas.
- (2) Either mean power output or peak envelope power output may be used for measurements, as appropriate for the emission type under test, provided that the same type of power measurement is used for both the transmitter output power and the power of the unwanted emissions.

Test Procedure

EIA/TIA-382-A Section 21.2. ANSI/TIA-603-E-2016 Section 2.2.13

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Note: the path loss(cable loss and attenuator) has included into the plot.

Test Data

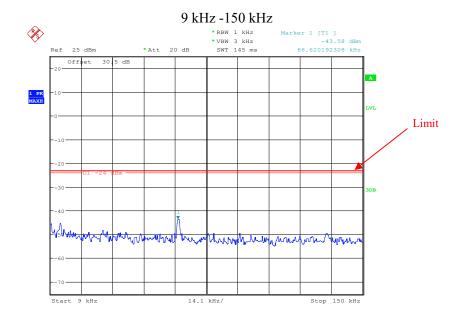
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Cat Kang on 2022-09-23.

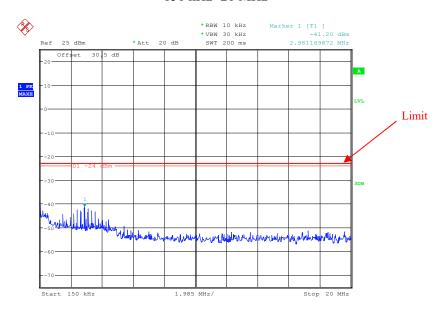
Test Mode: Transmitting

Limit for harmonic: 60dB below the rated power = 36dBm-60dB=-24dBm Limit for frequencies other than harmonic(exclude fc $\pm 250\%$ authorized bandwidth): $53 + 10 \log (P) dB$ below the rated power=-23dBm



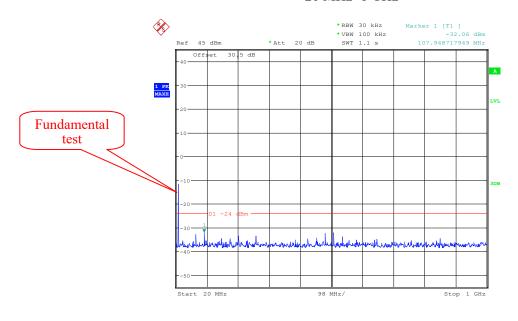
Date: 23.SEP.2022 09:30:17

150 kHz -20 MHz



Date: 23.SEP.2022 09:31:42

20 MHz -1 GHz



Date: 23.SEP.2022 09:39:02

Note: for 20MHz-1GHz, the tighter limit -24dBm was used.

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FCC§2.1055& §95.965 - FREQUENCY STABILITY

Applicable Standard

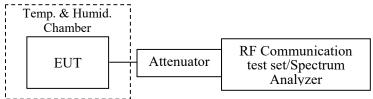
§95.965: Each CBRS transmitter type must be designed such that the transmit carrier frequency (or in the case of SSB transmissions, the reference frequency) remains within 50 parts-per-million of the channel center frequencies specified in §95.963 under all normal operating conditions.

Report No.: SZNS220901-39741E-RF-00

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external AC/DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The power cable 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 counter.



Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Cat Kang on 2022-09-23.

Test Mode: Transmitting

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Reference Frequency: 27.185 MHz				
Temerature (°C)	Voltage (V _{DC})	Reading (MHz)	Frequency Error (ppm)	Limit (ppm)
-30		27.185084	3.090	
-20		27.185077	2.832	
-10		27.185066	2.428	
0		27.185038	1.398	
10	13.8	27.185078	2.869	
20		27.185067	2.465	50
30		27.185095	3.495	
40		27.185071	2.612	
50		27.185079	2.906	
20	10.8	27.185083	3.053	
20	15.6	27.185057	2.097	

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

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