

Page 1 of 38

Report No.: HK2403060993-3E

FCC Test Report

Test report On Behalf of Smart Systems Distribution Sarl For Z-Station Model No.: ZMEUZSTATION ZW ZB

FCC ID: 2ALIB-ZMEZSTAZWZB

Prepared For : Smart Systems Distribution Sarl

Avenue Edmond-Vaucher 15B, 1219 Chatelaine, 123022 Switzerland

Prepared By :

Shenzhen HUAK Testing Technology Co., Ltd. 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

 Date of Test:
 Mar. 06, 2024~Mar. 29, 2024

 Date of Report:
 Mar. 29, 2024

 Report Number:
 HK2403060993-3E

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Report No.: HK2403060993-3E

Test Result Certification

Applicant's name:	Smart Systems Distribution Sarl
Address:	Avenue Edmond-Vaucher 15B, 1219 Chatelaine, 123022 Switzerland
Manufacturer's Name:	Smart Systems Distribution Sarl
Address:	Avenue Edmond-Vaucher 15B, 1219 Chatelaine, 123022 Switzerland
Product description	

Product description

Standards	47 CFR FCC Part 15 Subpart C 15.247
Model and/or type reference:	ZMEUZSTATION_ZW_ZB
Product name:	Z-Station
Trade Mark:	Z-Wave.Me

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Date of Test	
Date (s) of performance of tests:	Mar. 06, 2024~Mar. 29, 2024
Date of Issue	Mar. 29, 2024
Test Result:	Pass

Testing Engineer

len lias

(Len Liao)

Technical Manager

IVOY Mbm

(Sliver Wan)

Authorized Signatory:

asin Muu

(Jason Zhou)

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Т 691

** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Mar. 29, 2024	Jason Zhou
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1 Test Summary

1.1 Test Description

TES	TES.	TES.	V TES
	Test Item	Test Requirement	Result
10.00	Antenna Requirement	FCC Part 15.203 FCC Part 15.247(b)(4)	PASS
	Conducted Emission	FCC Part 15.207	PASS
NAKTES	Radiated Emissions	FCC Part 15.205 FCC Part 15.209 FCC Part 15.247(d)	PASS
KTESTING	Maximum Peak Output Power	FCC Part 15.247(b)	PASS
THE	Power Spectral Density	FCC Part 15.247(e)	PASS
	6dB Bandwidth & 99% Bandwidth	FCC Part 15.247(a)(2)	PASS
	Spurious RF Conducted Emission	FCC Part 15.247(d)	PASS
HUAK TEST	Band Edge	FCC Part 15.247(d) FCC Part 15.205(a)	PASS

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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.	ltem 🔍	Uncertainty
1	Conducted Emission Test	±2.71dB
2	All emissions, radiated(<1G)	±3.90dB
3	All emissions, radiated(>1G)	±4.28dB

1.3 Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd. Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

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2 General Information

2.1 General Description of EUT

EUT Name:	Z-Station	THUNK TEST	- HUAK T
Model No:	ZMEUZSTATION_ZW_ZB	0	
Series Model:	N/A	TESTING	
Model Difference:	N/A	C HUAN	KTESTING
Trade Mark:	Z-Wave.Me		HUM
Operation Frequency:	912 MHz, 920 MHz	AKTESTING	
Number of Channel:	2	HOM	-15
Modulation Technology:	DSSS, OQPSK	HUAKTL	HUAN
Hardware Version:	V2.0	w.	<i>w</i>
Software Version:	V2.0		
Antenna Type:	External Antenna	TESTING	1
Antenna Gain:	1.2dBi	O HUM	O HUM
Power Supply:	DC 5V From Type-C	-miG	
	162	165	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

- 2. Antenna gain Refer to the antenna specifications.
- 3. The cable loss data is obtained from the supplier.
- 4. The test results in the report only apply to the tested sample.

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2.2 Carrier Frequency of Channels

AK TESTING	OKTESTING	Description	of Channel:	OK TESTING	INK TESTI
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	912	02	920	03	600

The EUT has been operated in modulations: DSSS, OQPSK independently.

NO.	Test Mode Description		
HUAKTE 1 OHUAK	Low channel TX		
2	High channel TX		

Note:

1. All the test modes can be supply by Built-in Li-ion battery, only the result of the worst case was recorded in the report if no any records.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

2.3 Description of Test Conditions

(1) E.U.T. test conditions:

For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

- (2) Frequency range of radiated measurements: The test range will be up to the tenth harmonic of the highest fundamental frequency.
- (3) The duty cycle is 100%.

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2.4 Description of Test Setup

Operation of EUT during testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.

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2.5 Description of 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.

ltem	Equipment	Trade Mark	Model/Type No.	Specification	Remark
₆ 1	Z-Station	Z-Wave.Me	ZMEUZSTATION_ZW_ZB	N/A	EUT
2	USB Cable	N/A	N/A	Length:1.02m	Accessory
3	Laptop	N/A	TP00096A	Input: DC 20V, 2.25A/3.25A	Peripheral
Ŷ		0			
					~

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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3 Equipments List for All Test Items

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1 TES	L.I.S.N.	R&S	ENV216	HKE-002	2024/02/20	1 Year
2	L.I.S.N.	R&S	ENV216	HKE-059	2024/02/20	1 Year
3	EMI Test Receiver	R&S	ESR	HKE-005	2024/02/20	1 Year
4	Spectrum analyzer	Agilent	N9020A	HKE-025	2024/02/20	1 Year
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2024/02/20	1 Year
6	Preamplifier	EMCI	EMC051845S	HKE-006	2024/02/20	1 Year
7	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2024/02/20	1 Year
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2024/02/20	1 Year
9	6d Attenuator	Pasternack	6db	HKE-184	2024/02/20	1 Year
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2024/02/20	1 Year
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2 Year
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2 Year
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2 Year
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081		/
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	I and	no Dm
16	RF Automatic control unit	Tonscend	JS0806-2	HKE-060	2024/02/20	1 Year
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2024/02/20	1 Year
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	2024/02/20	1 Year
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2024/02/20	1 Year
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2023/06/11	1 Year
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2023/06/11	1 Year
22	RF Test Software	Tonscend	JS1120-3 Version 3.3.23	HKE-083	/	/
23	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	2024/02/20	1 Year
24	RSE Test Software	Tonscend	JS36-RSE 5.0. 0	HKE-184		/

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4 Test Result

4.1 Antenna Requirement

4.1.1 Standard Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a External Antenna, which have non-standard antenna jack. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 1.2dBi.

4.1.2 EUT Antenna



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4.2 Conduction Emissions Measurement

4.2.1 Applied Procedures / Limit

According to FCC CFR Title 47 Part 15 Subpart C Section 15.207, AC Power Line Conducted Emissions Limits for Licence-Exempt Radio Apparatus as below:

HUAR TESTING	Limi	t (dBuV)
Frequency range (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

4.2.2 Test Procedure

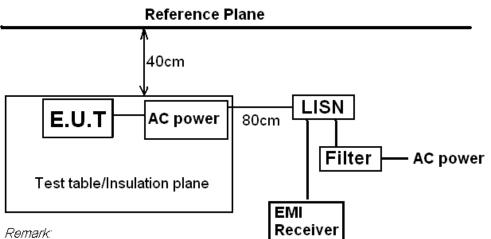
- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
- 2. Support equipment, if needed, was placed as per ANSI C63.10:2013.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
- 4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.

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4.2.3 Test Setup



Remain. E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m

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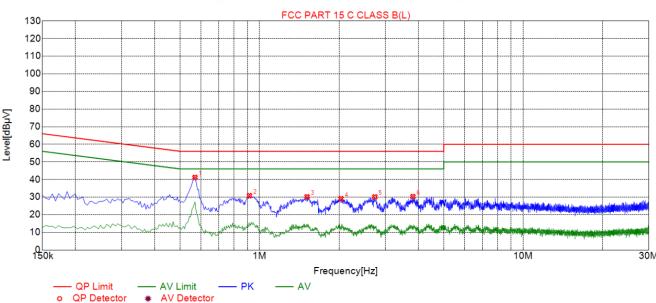
PASS

4.2.4 Test Results

HUAK TESTING

Only the worst result of Low channel TX was reported as below:

Test Specification: Line



Suspected List

		1							
N	0.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
	1	0.5685	41.17	20.05	56.00	14.83	21.12	PK	L
	2	0.9150	30.83	20.06	56.00	25.17	10.77	PK	L
:	3	1.5135	30.20	20.11	56.00	25.80	10.09	PK	L
4	4	2.0355	29.13	20.15	56.00	26.87	8.98	PK	L
4	5	2.7375	30.12	20.21	56.00	25.88	9.91	PK	L
< (6	3.8175	30.32	20.25	56.00	25.68	10.07	PK	L

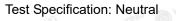
Remark: Margin = Limit – Level Correction factor = Cable lose + LISN insertion loss

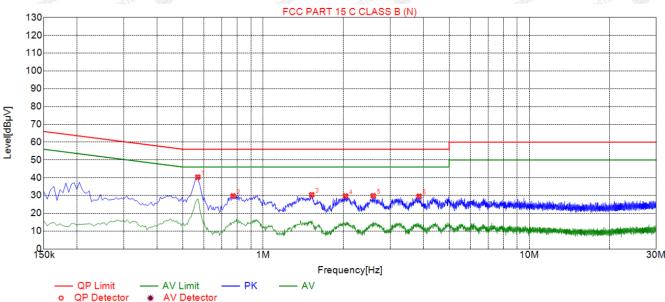
Level=Test receiver reading + correction factor

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2	Sus	spected	l List						
Y.	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
3	1	0.5685	40.32	20.05	56.00	15.68	20.27	PK	Ν
	2	0.7710	29.76	20.05	<u>56.00</u>	26.24	<mark>9.71</mark>	PK	Ν
	З	1.5225	30.38	20.11	56.00	25.62	10.27	PK	Ν
1	4	2.0400	29.70	20.15	56.00	26.30	<mark>9.55</mark>	PK	Ν
	5	2.5935	29.85	20.20	56.00	26.15	9.65	PK	Ν
2	6	3.8580	29.58	20.25	56.00	26.42	9.33	PK	Ν

Remark: Margin = Limit – Level Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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4.3 Radiated Emissions Measurement

4.3.1 Applied Procedures / Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

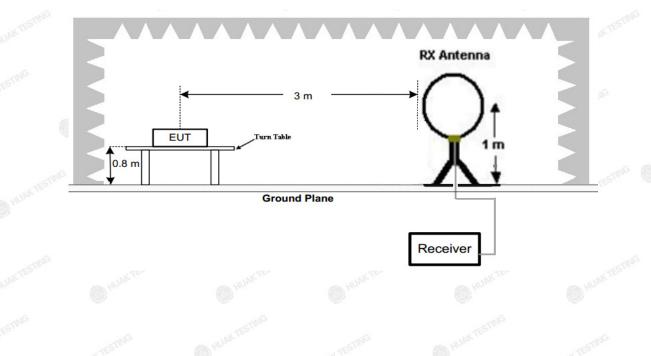
Except when the requirements applicable to a given device state otherwise, emissions from license-exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

		Rac	liated emission limits	
ŝ	Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
	0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
	0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
3	1.705-30	3	20log(30)+ 40log(30/3)	30
	30-88	3	40.0	100
15	88-216	3 csm	43.5	150
	216-960	3	46.0	200
	Above 960	3	54.0	500
	S4077			

4.3.2 Test Setup

Test Configuration:

1) 9 kHz to 30 MHz emissions:



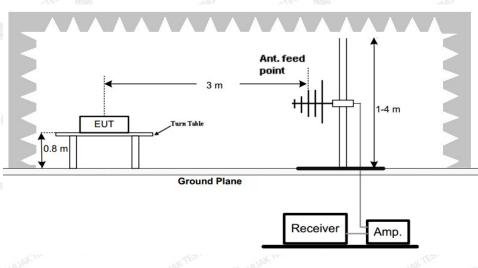
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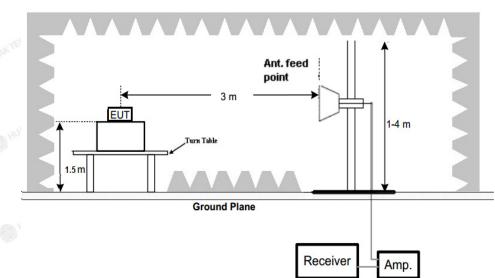


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2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 25 GHz emissions:



Test Procedure

- 1. The EUT was placed on turn table which is 0.8m above ground plane for below 1GHz test, and on a low permittivity and low loss tangent turn table which is 1.5m above ground plane for above 1GHz test.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
 - 4. Repeat above procedures until all frequency measurements have been completed.

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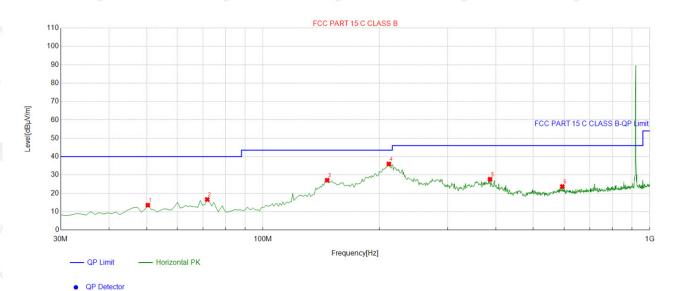


4.3.3 Test Result

Below 1GHz Test Results:

All modes have been tested, only the worst mode of Low channel TX is reflected.

Antenna polarity: H



Su	ICT		ote	Ы	List	
Su	ISP	Je	CIE	:u	LISU	

Angle	
[°]	Polarity
236	Horizontal
55	Horizontal
82	Horizontal
189	Horizontal
69	Horizontal
22	Horizontal
	236 55 82 189 69

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

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Antenna polarity: V



Suspected List

8	NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevitu
51	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	50.39039	-14.55	40.06	25.51	40.00	14.49	100	196	Vertical
	2	71.751752	-16.40	42.54	26.14	40.00	13.86	100	258	Vertical
2	3	126.12612	-16.21	49.95	33.74	43.50	9.76	100	100	Vertical
	4	211.57157	-14.55	44.05	29.50	43.50	14.00	100	56	Vertical
	5	378.57857	-10.69	40.97	30.28	46.00	15.72	100	163	Vertical
	6	599.95996	-4.93	28.14	23.21	46.00	22.79	100	56	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
THE STARE HUN-	THE THE MUT	ane-
IN TEST	WAX TEST	HUAKTEST - HUAKTE
·)	©. <u> </u>

Note:1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

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For 1GHz to 25GHz

CH Low (912MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
1824	54.71	-3.65	51.06	74.00	-22.94	peak
1824	46.29	-3.65	42.64	54.00	-11.36	AVG
2736	51.57	-0.95	50.62	74.00	-23.38	peak
2736	43.28	-0.95	42.33	54.00	-11.67	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
1824	54.09	-3.65	50.44	74.00	-23.56	peak
1824	43.52	-3.65	39.87	54.00	-14.13	AVG
2736	51.15	-0.95	50.20	74.00	-23.80	peak
2736	42.85	-0.95	41.90	54.00	-12.10	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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CH High (920MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	🔊 Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
1840	52.35	-3.43	48.92	74.00	-25.08	peak
1840	43.99	-3.44	40.55	54.00	-13.45	AVG
2760	50.34	-0.77	49.57	74.00	-24.43	peak
2760	41.47	-0.77	40.70	54.00	-13.30	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
1840	55.48	-3.43	52.05	74.00	-21.95	peak
1840	44.12	-3.44	40.68	54.00	-13.32	AVG
2760	52.59	-0.77	51.82	74.00	-22.18	peak
2760	41.04	-0.77	40.27	54.00	-13.73	AVG

Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.

(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed. (7) All modes of operation were investigated and the worst-case emissions are reported.</p>

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Radiated Band Edge Test:

Operation Mode: TX CH Low (912MHz)

Horizontal:

	-112-		10-	(D)-	-110-	-019-	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
902.00	41.69	-5.81	35.88	46	-10.12	QP	
Remark: Facto	or = Cable loss	+ Antenna facto	r + Attenuator – Pr	eamplifier; Level	= Reading +	Factor;	

Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
902.00	43.22	-5.81	37.41	46	-8.59	QP
Remark: Facto Margin = Leve		F Antenna facto	or + Attenuator – P	reamplifier; Level	= Reading +	Factor;

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Operation Mode: TX CH High (920MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
o ^{se} 928.00	44.18	-5.81	38.37	46	-7.63	QP	
Remark: Facto Margin = Leve		- Antenna facto	r + Attenuator – F	Preamplifier; Level	= Reading +	Factor;	

Vertical:

. IL PO	HO	, m par	Allen HU.		. alport	the HU.			
Frequency	requency Meter Reading		Paulency I Factor Emissi		Emission Level	Limits	Margin	Detector Type	
(MHz)	(dBµV)	(dB)	,⊚ (dBµV/m)	(dBµV/m)	(dB)				
928.00	42.77	-5.81	36.96	46	-9.04	QP			
Remark: Facto Margin = Leve		- Antenna facto	or + Attenuator – F	Preamplifier; Level	= Reading +	Factor;			

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Remark:

1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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4.4 Maximum Output Power Measurement

4.4.1 Limit

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 Test Procedure

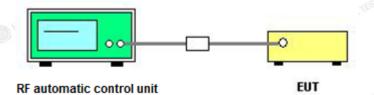
The maximum peak conducted output power may be measured using a broadband peak RF automatic control unit. The RF automatic control unit shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The maximum Average conducted output power may be measured using a wideband RF automatic control unit with a thermocouple detector or equivalent. The RF automatic control unit shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

4.4.3 Deviation From Standard

No deviation.

4.4.4 Test Setup



4.4.5 Test Results

31-	Channel	Channel frequency (MHz)	Maximum Output power (dBm)	Limit (dBm)	Result
1	CH Low	912	-1.38	20.00	Pass
	CH High	920	-0.80	- 30.00	Pass

Note: 1.The test results including the cable lose.

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4.5 Power Spectral Density

4.5.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.5.2 Test Procedure

Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance. Set the RBW =100 kHz. Set the VBW =300 KHz. Set the span to 1.5 times the DTS channel bandwidth. Detector = peak. Sweep time = auto couple. Trace mode = max hold. Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. If measured value exceeds limit, reduce RBW(no less than 3 kHz)and repeat. The resulting peak PSD level must be 8 dBm.

4.5.3 Deviation From Standard

No deviation.

4.5.4 Test Setup



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4.5.5 Test Results

Channel	Channel frequency (MHz)	Test Result (dBm/ 100kHz)	Result 10log (dBm/ (3/100)		Limit (dBm/ 3KHz)	Result
CH Low	912	-2.05	s [©] -15.23	-17.28	0.00	Pass
CH High	920	-2.03	-15.23	-17.26	8.00	Pass



CH High



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4.6 6db Bandwidth

4.6.1 Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

4.6.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=100 KHz and VBW=300 KHz. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.6.3 Deviation From Standard

No deviation.

4.6.4 Test Setup

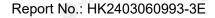


4.6.5 Test Result

Channel	Channel frequency (MHz)	6dB Bandwidth (MHz)	Limit (KHz)	Result
CH Low	912	0.680	>500	Pass
CH High	920	0.628	≥500	Pass

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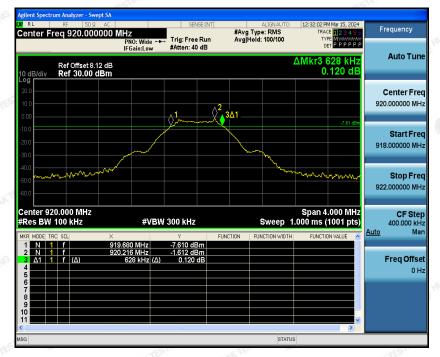


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CH Low



CH High



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4.7 Occupied Bandwidth

4.7.1 Test Procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

RBW=1% to 5% of the OBW

VBW=approximately 3 X RBW

Detector=Peak

Trace Mode: Max Hold

Use the 99% power bandwidth function of the instrument to measure the Occupied Bandwidth and recorded.

4.7.2 Deviation From Standard

No deviation.

4.7.3 Test Setup



4.7.4 Test Result

N/A

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4.8 Band Edge

4.8.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under FCC rules in section 5.8.1, the attenuation required shall be 30 dB instead of 20 dB.

4.8.2 Test Procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation, RBW ≥ 1% of the span, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold.

4.8.3 Deviation From Standard

No deviation.

4.8.4 Test Setup



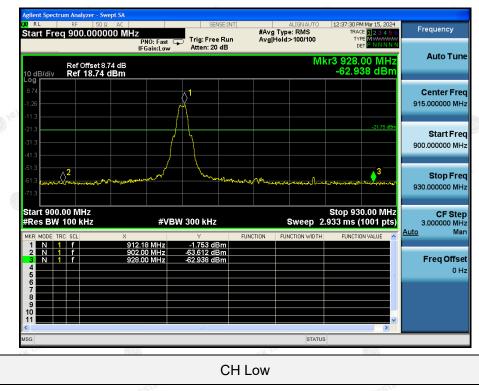
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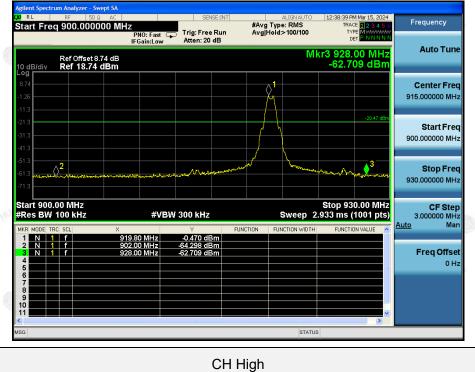
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4.8.5 Test Results

PASS





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4.9 Conducted Spurious Emissions

4.9.1 Applied Procedures / Limit

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In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section (b)(3) of RSS 5.4(4), the attenuation required shall be 30 dB instead of 20 dB.

For below 30MHz,For 9KHz-150kHz,150K-10MHz,We use the RBW 1KHz,10KHz, So the limit need to calculated by "10lg(BW1/BW2)". for example For9KHz-150kHz,RBW 1KHz, The Limit= the highest emission level-20-10log(100/1)= the highest emission level-40.

4.9.2 Test Procedure

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b.Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation, $RBW \ge 1\%$ of the span, $VBW \ge RBW$, Sweep = auto, Detector function = peak, Trace = max hold.

4.9.3 Deviation From Standard

No deviation.

4.9.4 Test Setup



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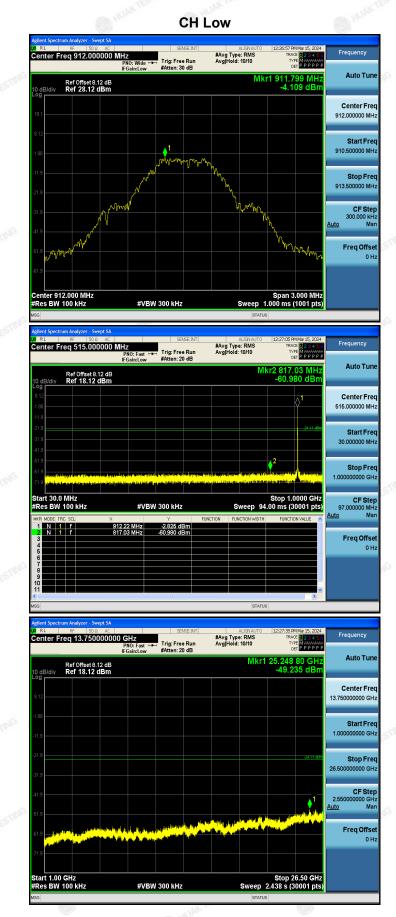
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4.9.5 Test Results



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Report No.: HK2403060993-3E

CH High



RL	RF 50 Ω	10		SENSE	10.17	ALIGN AUTO	10,00,00,00	M Mar 15, 2024	
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1971 9 tart 30.0 Res BW KR MODE TF 1 N 1 2 N 1 3 4	MHz 100 kHz	× 919.88	#VB\	W 300 kHz -3.041 dBn	FUNCTION	Sweep 9	Stop 1.0 4.00 ms (3	0000 GHz 0001 pts)	1.00000000 GF CF Ste 97.000000 MF

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Agilent Sp	pectrum A	nalyzer - Swe	ept SA								
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	IV KG	1 10.12 0									
8.12											Center Freq 13.75000000 GHz
-1.88											Start Freq 1.000000000 GHz
-21.9										-23.36 dBm	Stop Freq 26.50000000 GHz
-41.9 —										1	CF Step 2.55000000 GHz
-51.9	وأعضينا	i a abatallahun	water and the second	a, Kinak		udd	line and the second sec	n inini,			Auto Man Freq Offset
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Start 1 #Res E	1.00 GH 3W 100	z kHz		#VBW	300 kHz			Sweep	Stop 2 2.438 s (3	26.50 GHz 10001 pts)	
MSG								STATU	JS		

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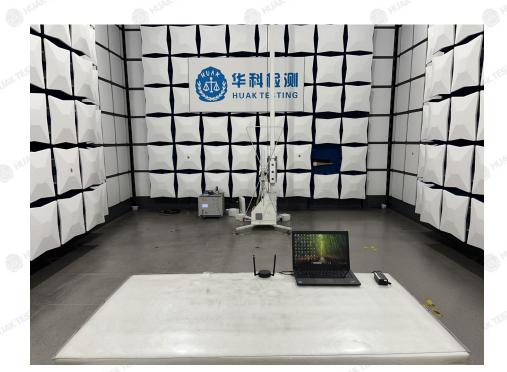
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5 Test Setup Photo

Radiated Emissions





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Conducted Emission



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ACATIA

6 Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

--End of test report---

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