

Report No.: SZEM210300219706

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TEST REPORT

Application No.: SZEM2103002197CR

Applicant: Navico Inc.

Address of Applicant: 4500 S. 129th East Avenue, Ste. 200, Tulsa, Oklahoma, 74134 United

States

Manufacturer: Navico Auckland Ltd.

Address of Manufacturer: 44 Arrenway Drive, Rosedale, Auckland 0632, New Zealand

Factory: Shenzhen Fastrain Technology Co., Ltd.

Address of Factory: No.3 Baolong 4th Rd., Baolong Industrial Area, Longgang District,

Shenzhen, China

Equipment Under Test (EUT):

EUT Name: MARINE BLACK BOX DSC/AIS VHF RADIO SYSTEM

Model No.: NRS-2
Trade Mark: NAVICO

Standard(s): 47 CFR Part 15, Subpart B

Date of Receipt: 2021-03-01

Date of Test: 2021-03-03 to 2021-04-13

Date of Issue: 2021-04-14

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2021-04-14		Original			

Authorized for issue by:			
	Bolisonti		
	Edison Li/Project Engineer	_	
	Exic Fu		
	Eric Fu/Reviewer	-	



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Test Summary

Emission Part						
Item	Standard	Method	Requirement	Result		
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15,	ANSI C63.4:2014	Class B	Pass		
Radiated Emissions (above 1GHz)	Subpart B	ANSI C63.4:2014	Class B	Pass		



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4 General Information

4.1 Details of E.U.T.

Power Supply:	12 VDC battery system	
Cable:	DC cable: longer than 300cm unshielded	
Sample Type:	Mobile device	
Internal Source:	More than 108MHz	

4.2 Description of Support Units

m= Docompaion or ou	nz zoonipuon oi oupport onito					
Description	Manufacturer	Model No.	Serial No.			
DC power	ZHAOXIN	RXN-305D	REF. No.SEA2700			
Coaxial Attenuator	Provided by client	TS4	HYT168793			
Cell Site Test Set	HP	8921A	3633A04615			
Audio Analyzer	Rohde & Schwarz	UPV	SEM008-03			
Wired Handset	SIMRAD	HS100	/			
Wired Speaker	/	SP100	/			
Wired Handset	B&G	H100	/			
Wired Speaker	/	SP100	/			

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions (30MHz-1GHz)	± 4.5dB
Radiated Emissions (above 1GHz)	± 4.8dB

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

4.7 Abnormalities from Standard Conditions

None



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5 **Equipment List**

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Dro Amplifior	Agilant Tachnologias	8447D	SEM005-01	2020-03-24	2021-03-23
Pre-Amplifier	Agilent Technologies	0447D	3EIVI005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic	AUDIX	N/A	SEM001-02	2018-03-31	2021-03-30
Chamber	AUDIX	IN/A	SEIVIOU1-02	2021-03-30	2024-03-29
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Hom Antenna	RondeaScriwarz	HF907	3EIVI003-07	2021-04-11	2024-04-10
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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Emission Test Results 6

6.1 Radiated Emissions (30MHz-1GHz)

47 CFR Part 15, Subpart B Test Requirement:

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

Liitiit.				
	dBμV/m (At 10m)	dBμV/m (At 3m)		
FREQUENCY (MHz)	Class B	Class B		
30MHz -88MHz	29.5	40.0		
88MHz-216MHz	33.1	43.5		
216MHz-960MHz	35.6	46.0		
960MHz-1000MHz	43.5	54.0		
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz				

6.1.1 E.U.T. Operation

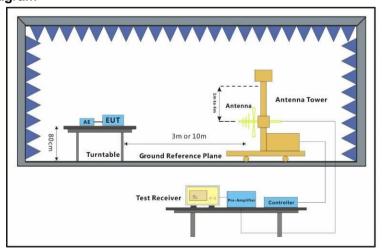
Operating Environment:

Temperature: 25.4 °C Atmospheric Pressure: 1010 mbar Humidity: 51.3 % RH

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Normal working

6.1.3 Test Setup Diagram





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6.1.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



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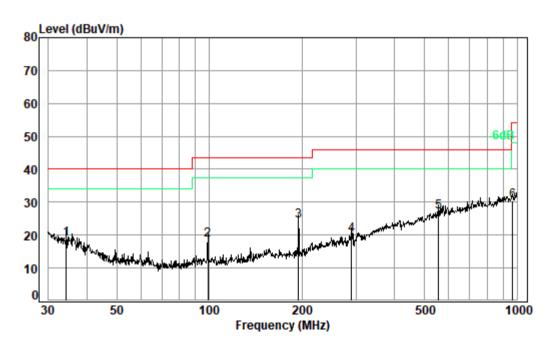
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Test Mode: 00; Polarity: Horizontal



Condition: 3m HORIZONTAL

: 02197CR Job No.

Test Mode: 00

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
			,			,			
1	34.28	0.65	20.73	27.72	25.08	18.74	40.00	-21.26	QP
2	98.83	1.12	13.88	27.61	31.14	18.53	43.50	-24.97	QP
3	195.14	1.20	15.66	27.16	34.51	24.21	43.50	-19.29	QP
4	290.02	1.93	18.30	26.89	26.85	20.19	46.00	-25.81	QP
5 pp	556.77	2.62	25.03	27.99	27.40	27.06	46.00	-18.94	QP
6	968.93	3.57	29.50	26.81	24.15	30.41	54.00	-23.59	QP



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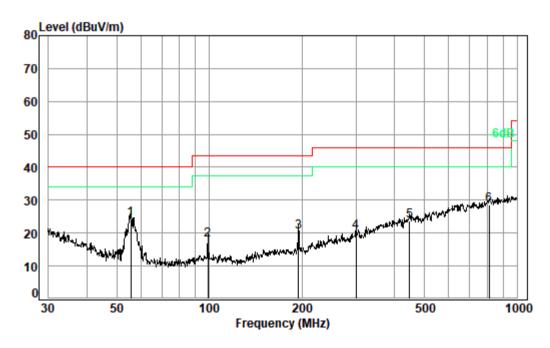
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Test Mode: 00; Polarity: Vertical



Condition: 3m VERTICAL : 02197CR Job No.

Test Mode: 00

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	55.61	0.76	13.02	27.67	38.32	24.43	40.00	-15.57	QP
2	98.83	1.12	13.88	27.61	30.44	17.83	43.50	-25.67	QP
3	195.14	1.20	15.66	27.16	30.72	20.42	43.50	-23.08	QP
4	299.32	2.00	19.05	26.87	26.24	20.42	46.00	-25.58	QP
5	447.98	2.40	22.70	27.60	26.37	23.87	46.00	-22.13	QP
6	810.27	3.32	27.85	27.67	25.07	28.57	46.00	-17.43	OP



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6.2 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

Above 1GHz 74(dBµV/m) peak, 54(dBµV/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

6.2.1 E.U.T. Operation

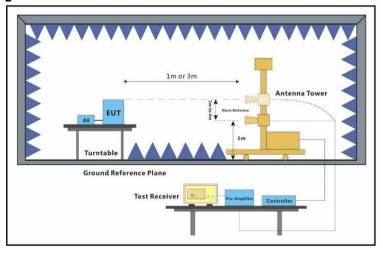
Operating Environment:

Atmospheric Pressure: 1010 mbar Temperature: 22.6 °C Humidity: 52.1 % RH

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Normal working

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.



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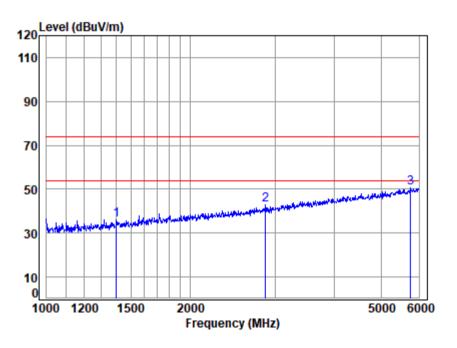
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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL Job No : 02197CR/02198CR

Mode : 00

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1400.530	3.11	25.43	39.89	47.36	36.01	74.00	-37.99	Peak
2	2867.827	4.78	30.36	40.64	48.51	43.01	74.00	-30.99	Peak
3	5768.088	8.22	34.87	42.38	50.01	50.72	74.00	-23.28	Peak



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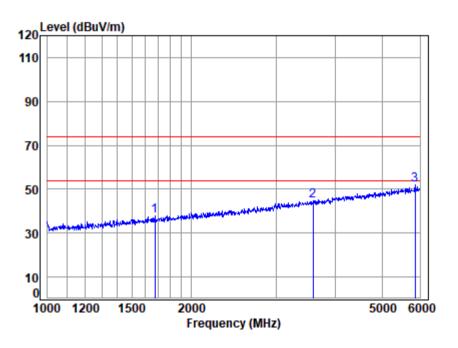
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Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

: 02197CR/02198CR Job No

Mode : 00

> 1 2 3

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	1678.362	3.41	26.58	40.05	47.94	37.88	74.00	-36.12	Peak
2	3587.747	5.66	31.89	41.14	48.21	44.62	74.00	-29.38	Peak
}	5861.858	8.24	34.97	42.39	50.98	51.80	74.00	-22.20	Peak



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7 Photographs

7.1 Setup photos.

Please refer to setup photos.

7.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -



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