

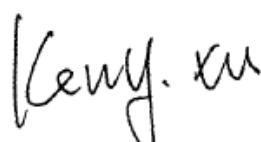
Report No.: SZEM200700601801
Page: 1 of 15

TEST REPORT

Application No.: SZEM2007006018CR
Applicant: Navico Inc.
Address of Applicant: 4500 S. 129th East Avenue, Ste. 200, Tulsa, Oklahoma, 74134 United States
Manufacturer: Navico Auckland Limited
Address of Manufacturer: 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: 2020-07-03
Date of Test: 2020-07-31 to 2020-09-04
Date of Issue: 2020-09-18

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

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


Keny Xu

EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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| Revision Record | | | | |
|------------------------|----------------|-------------|-----------------|---------------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2020-09-18 | | Original |
| | | | | |
| | | | | |

| | | | |
|---------------------------------|--|---|--|
| Authorized for issue by: | | | |
| | |  | |
| | | Edison Li /Project Engineer | |
| | |  | |
| | | Eric Fu /Reviewer | |

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2 Test Summary

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

| Internal Source | Upper Frequency |
|------------------------|--|
| Below 1.705MHz | 30MHz |
| 1.705MHz to 108MHz | 1GHz |
| 108MHz to 500MHz | 2GHz |
| 500MHz to 1GHz | 5GHz |
| Above 1GHz | 5th harmonic of the highest frequency or 40GHz, whichever is lower |

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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

| 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

| No. | Item | Measurement Uncertainty |
|-----|-------------------|-------------------------|
| 1 | Radiated Emission | ± 4.5dB (30MHz-1GHz) |
| 2 | Temperature test | ± 1 °C |
| 3 | Humidity test | ± 3% |

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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

None

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 |
| 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 |
| MXE EMI receiver | KEYSIGHT | N9038A | SEM004-15 | 2019-12-16 | 2020-12-15 |
| BiConiLog Antenna | ETS-LINDGREN | 3142C | SEM003-02 | 2019-05-24 | 2022-05-23 |
| Pre-amplifier | Agilent Technologies | 8447D | SEM005-01 | 2020-04-01 | 2021-03-31 |

| Radiated Emissions (above 1GHz) | | | | | |
|---------------------------------|------------------------------------|-----------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018-03-13 | 2021-03-12 |
| 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 |
| EXA Spectrum 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 |
| Pre-Amplifier | Compliance Directions Systems Inc. | PAP-0126 | SEM004-11 | 2019-09-24 | 2020-09-23 |

| General used equipment | | | | | |
|---------------------------------|---|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2019-09-26 | 2020-09-25 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2019-09-26 | 2020-09-25 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2019-09-26 | 2020-09-25 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2020-04-07 | 2021-04-06 |

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6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Limit:

30MHz -88MHz 40.0(dB μ V/m) quasi-peak

88MHz-216MHz 43.5(dB μ V/m) quasi-peak

216MHz-960MHz 46.0(dB μ V/m) quasi-peak

960MHz-1000MHz 54.0(dB μ V/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

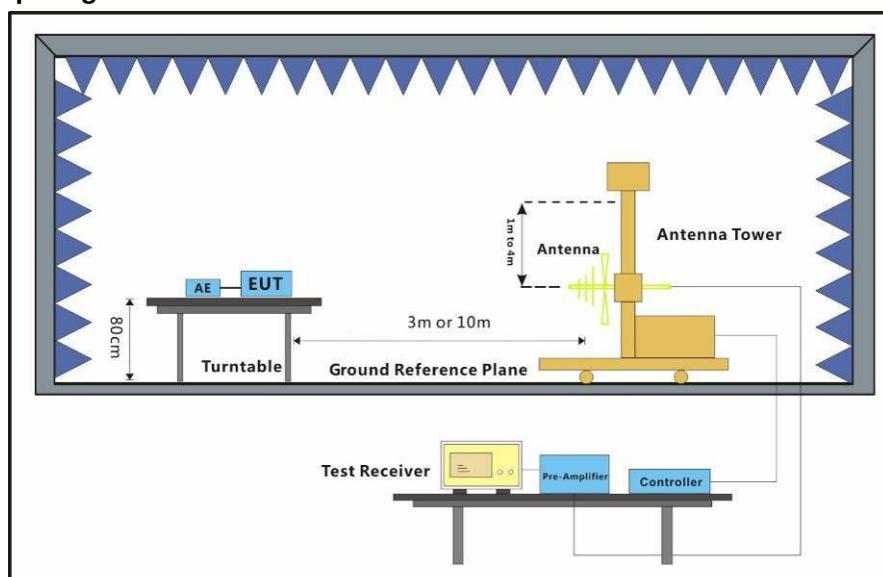
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1000 mbar

Test mode: 00:Normal Working_Bank

6.1.2 Test Setup Diagram



6.1.3 Measurement 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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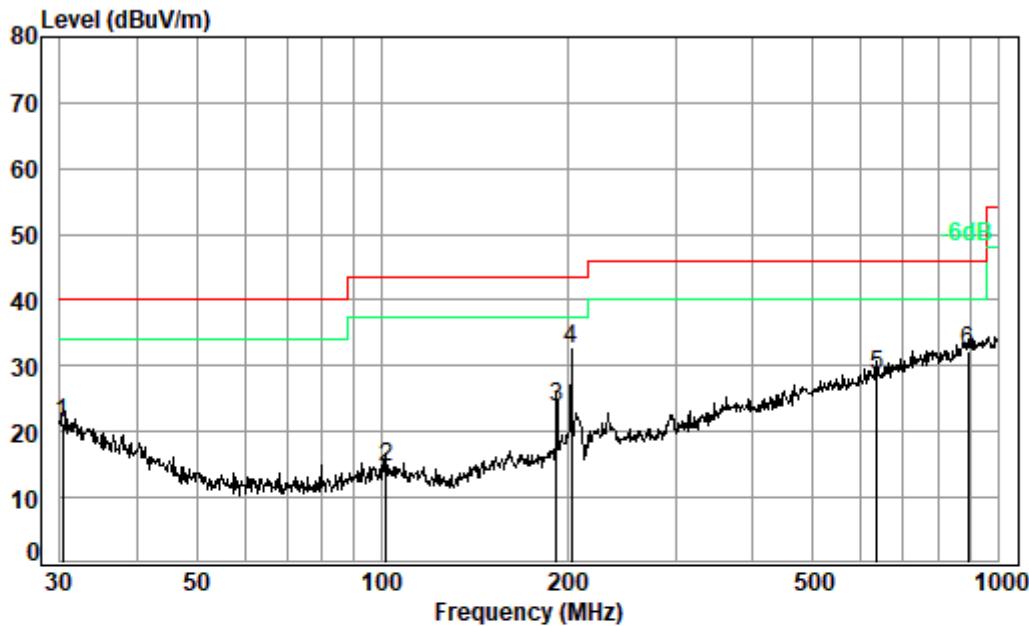
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Mode:00;Horizontal



Condition: 3m HORIZONTAL

Job No. : 06018CR

Test Mode: 00

: 1#

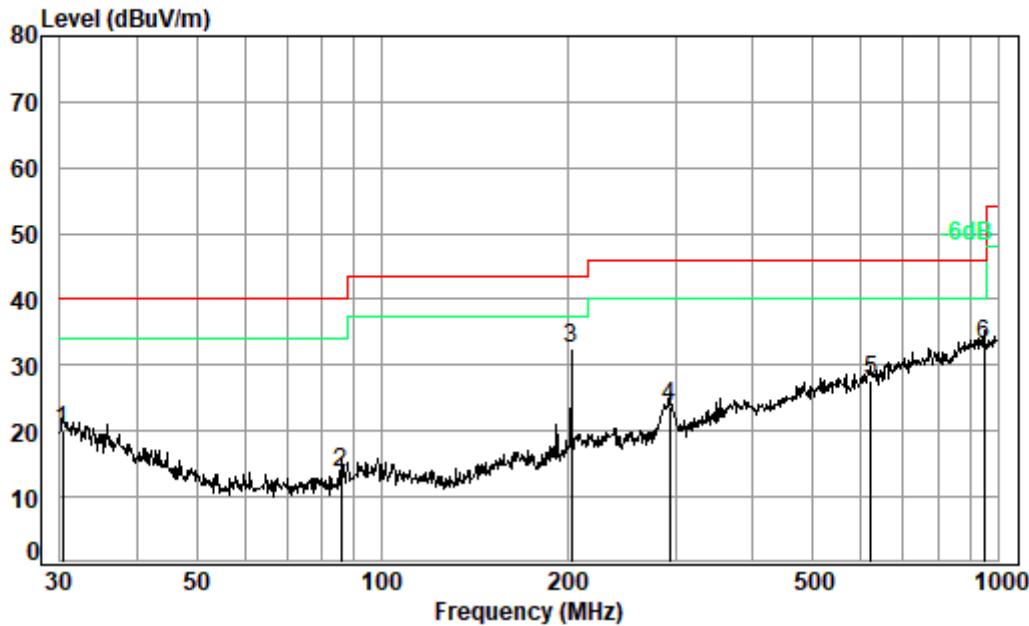
| | Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|------|--------|-------|--------|--------|-------|--------|--------|-----------|
| | | Loss | Factor | Factor | Level | Level | Line | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 30.32 | 0.60 | 22.76 | 27.73 | 25.81 | 21.44 | 40.00 | -18.56 QP |
| 2 | 101.64 | 1.10 | 13.95 | 27.60 | 27.15 | 14.60 | 43.50 | -28.90 QP |
| 3 | 191.75 | 1.19 | 15.55 | 27.17 | 34.22 | 23.79 | 43.50 | -19.71 QP |
| 4 pp | 202.81 | 1.23 | 15.66 | 27.13 | 42.67 | 32.43 | 43.50 | -11.07 QP |
| 5 | 636.13 | 2.78 | 26.32 | 28.05 | 27.67 | 28.72 | 46.00 | -17.28 QP |
| 6 | 893.86 | 3.49 | 28.96 | 27.20 | 26.93 | 32.18 | 46.00 | -13.82 QP |

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Mode:00 ;Vertical



Condition: 3m VERTICAL

Job No. : 06018CR

Test Mode: 00

: 1#

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark | |
|------|--------|------|--------|--------|-------|--------|--------|-----------|
| | Freq | Loss | Factor | Factor | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 30.32 | 0.60 | 22.76 | 27.73 | 24.43 | 20.06 | 40.00 | -19.94 QP |
| 2 | 85.90 | 1.26 | 12.49 | 27.63 | 27.68 | 13.80 | 40.00 | -26.20 QP |
| 3 pp | 202.81 | 1.23 | 15.66 | 27.13 | 42.66 | 32.42 | 43.50 | -11.08 QP |
| 4 | 293.08 | 1.95 | 18.55 | 26.89 | 30.23 | 23.84 | 46.00 | -22.16 QP |
| 5 | 622.89 | 2.75 | 26.64 | 28.08 | 26.49 | 27.80 | 46.00 | -18.20 QP |
| 6 | 948.76 | 3.55 | 29.33 | 26.91 | 27.22 | 33.19 | 46.00 | -12.81 QP |

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6.2 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Frequency Range: Above 1GHz

Measurement Distance: 3m

Limit:

Above 1GHz 74(dB μ V/m) peak, 54(dB μ V/m) average

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

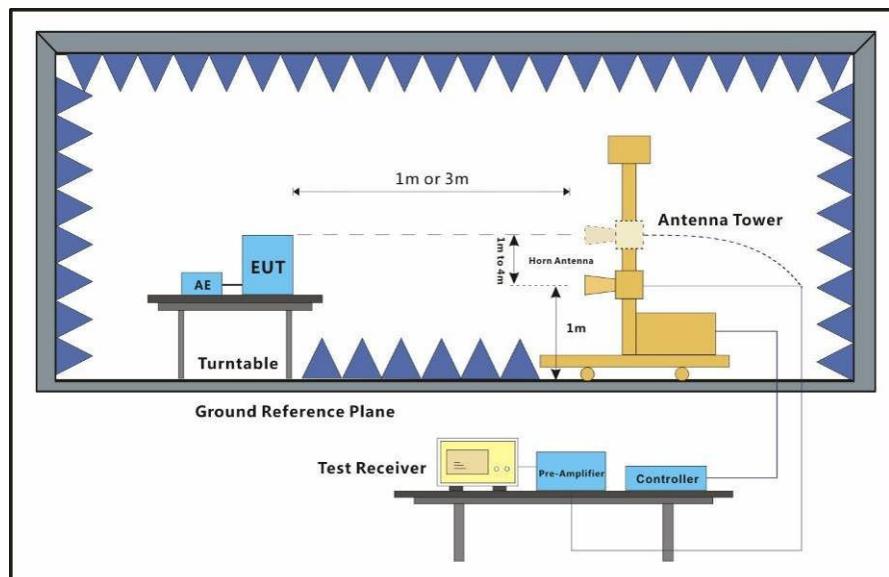
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 60.6 % RH Atmospheric Pressure: 1010 mbar

Test mode 00:Normal Working_Blank

6.2.2 Test Setup Diagram



6.2.3 Measurement 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.



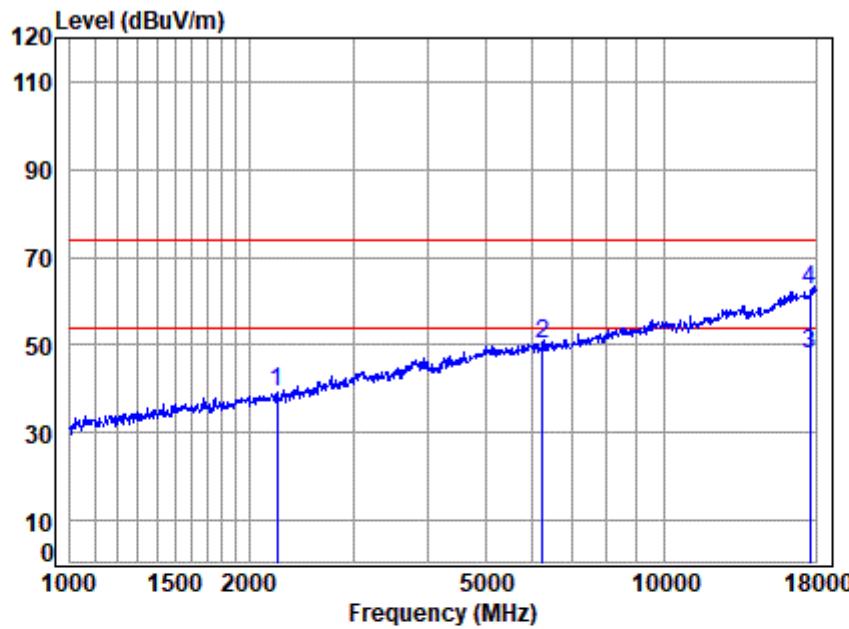
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Mode:00;Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 06018CR
Mode : 00
Note :

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|------|-----------|-------|--------|-------|-------|-------|---------------------|
| | MHz | Loss | Factor | Level | | | |
| 1 | 2226.950 | 4.07 | 28.23 | 40.33 | 47.36 | 39.33 | 74.00 -34.67 Peak |
| 2 | 6249.464 | 8.27 | 35.35 | 42.22 | 48.85 | 50.25 | 74.00 -23.75 Peak |
| 3 | 17639.470 | 14.22 | 43.07 | 40.19 | 30.59 | 47.69 | 54.00 -6.31 Average |
| 4 | 17639.470 | 14.22 | 43.07 | 40.19 | 45.59 | 62.69 | 74.00 -11.31 Peak |

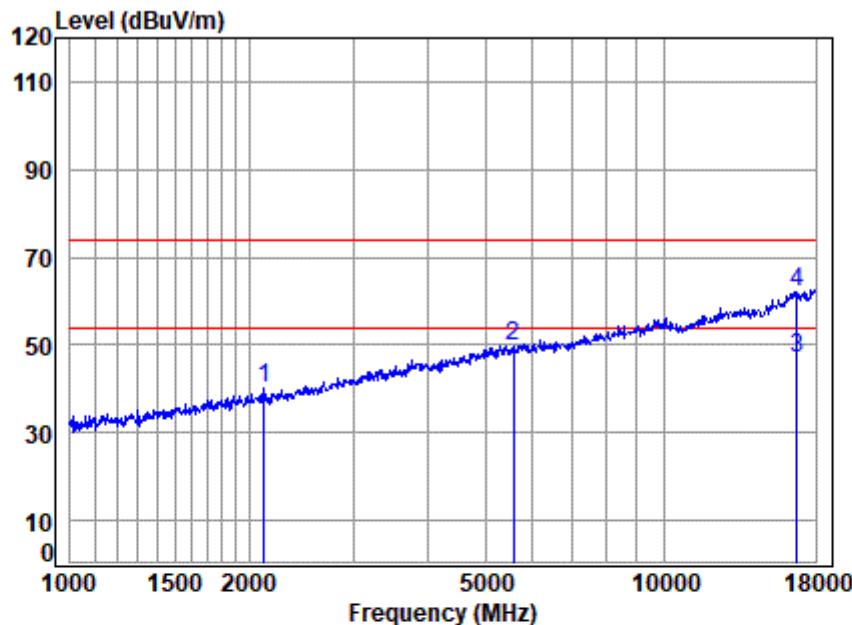
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Mode:00 ;Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 06018CR
Mode : 00
Note :

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | | Limit Line | Over Limit | Remark |
|------|------------|------------|---------------|------------|-------|------------|------------|---------------|
| | | | | dB | dBuV | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dB | |
| 1 | 2120.171 | 3.88 | 28.04 | 40.27 | 48.53 | 40.18 | 74.00 | -33.82 Peak |
| 2 | 5583.251 | 8.19 | 34.69 | 42.36 | 49.17 | 49.69 | 74.00 | -24.31 Peak |
| 3 | 16745.210 | 14.50 | 42.40 | 40.41 | 30.64 | 47.13 | 54.00 | -6.87 Average |
| 4 | 16745.210 | 14.50 | 42.40 | 40.41 | 45.64 | 62.13 | 74.00 | -11.87 Peak |

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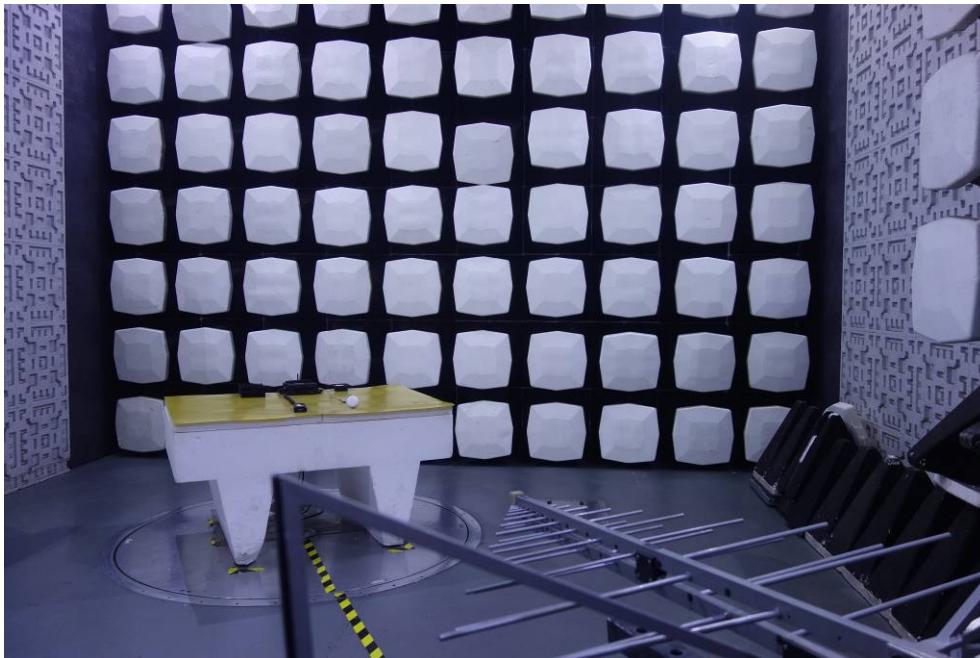


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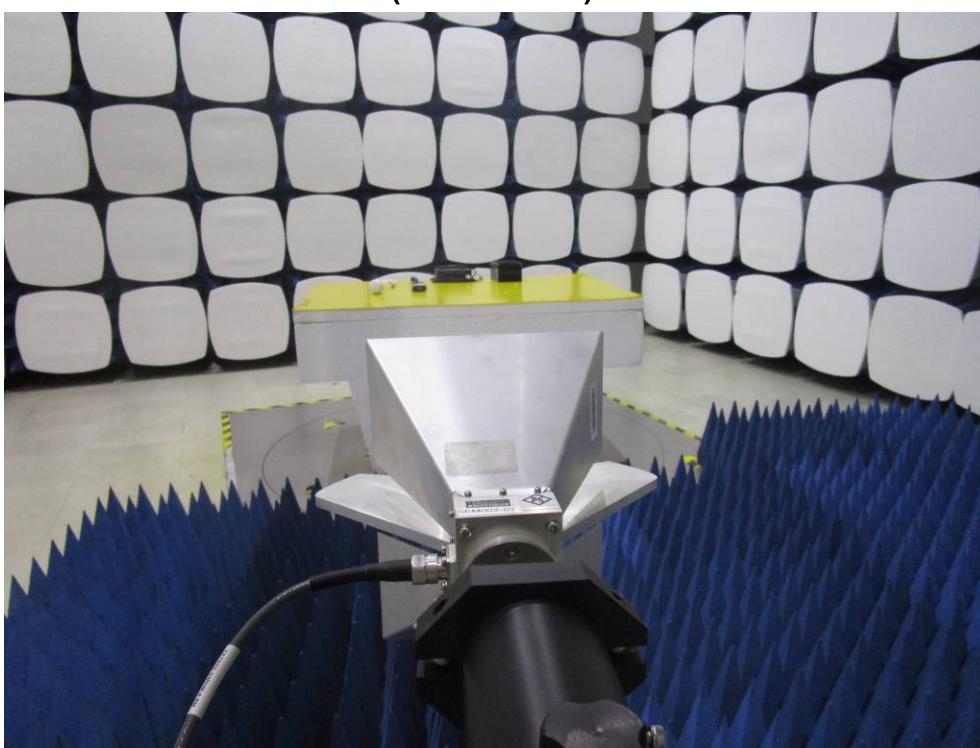
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7 Photographs

7.1 Radiated Emissions (30MHz-1GHz)



7.2 Radiated Emissions (above 1GHz)



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7.3 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -



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