

**EXHIBIT FOR INTELLIAN, MITSUBISHI & THRANE
DECLARATIONS ON COMPLIANCE WITH 25.222(A)(1) OF THE
COMMISSION'S RULES FOR EARTH STATIONS ON VESSELS**

INCLUDES INTELLIAN DECLARATION FOR –

Intellian Model v100 1.06 Meter Ku-band Antennas

Intellian Model v130 1.25 Meter Ku-band Antennas

Mitsubishi Model MVA60 0.60 Meter Ku-band Antennas

Mitsubishi Model MVA120 1.2 Meter Ku-band Antennas

THRANE & THRANE 0.83 METER KU-BAND ANTENNA (MODEL TT-7080A SAILOR
800A)

THRANE & THRANE 1.0 METER KU-BAND ANTENNA (MODEL TT-7090B SAILOR
900B)

FCC Declaration of Conformity

Intellian Technologies, manufactures of stabilized maritime VSAT antenna systems for satellite communication at sea, supplies stabilized maritime VSAT antenna systems to the satellite communication service providers for their ESV (Earth Station on Vessels) networks.

FCC §25.222 defines the provisions for blanket licensing of ESV antennas operation in the Ku-band. It defines the antennas radiation, and each article regulates the followings;

§25.222 (a)(1)(i)(A): Regulation for Azimuth Direction & Co Polarization
§25.222 (a)(2)(i)(B): Regulation for Other Direction & Co Polarization
§25.222 (a)(1)(i)(C): Regulation for Cross Polarization

Intellian Technologies, Inc. declares that v100GX complies with the threshold level as defined in §25.222(a)(1)(i)(A); and declares that v100GX is in accordance with all defined regulations from §25.222(a)(1)(i)(B) to §25.222(a)(1)(i)(C) at the below stated input power spectral density, with an N value of 1.

Product description	Intellian v100GX, 103cm Ku-band maritime VSAT antenna system
EIRP spectral density limit	-16.66 dBW/ 4KHz

Intellian Technologies, Inc. declares that the above antenna will maintain a pointing error of less than or equal to 0.2 degree under specified ship motion conditions in accordance with the requirements of §25.222 (a)(1)(ii).

Intellian Technologies, Inc. declares that the above antennas will automatically cease the transmission with a mute command to the modem within 100 milliseconds if the target satellite and the axis of the main lobe of the ESV antenna exceeds 0.5 degree and will not resume until such angle is less than or equal to 0.2 degree in accordance with the requirements of §25.222 (a)(1)(iii)

Radiation pattern data is available upon request to verify the conformance.

Authority: Steve Cha
Director, Research & Development

Signature: 



Date: October 23, 2012

FCC Declaration of Conformity

Intellian Technologies, manufactures of stabilized maritime VSAT antenna systems for satellite communication at sea, supplies stabilized maritime VSAT antenna systems to the satellite communication service providers for their ESV (Earth Station on Vessels) networks.

FCC §25.222 defines the provisions for blanket licensing of ESV antennas operation in the Ku-band. It defines the antennas radiation, and each article regulates the followings;

§25.222 (a)(1)(i)(A): Regulation for Azimuth Direction & Co Polarization
§25.222 (a)(2)(i)(B): Regulation for Other Direction & Co Polarization
§25.222 (a)(1)(i)(C): Regulation for Cross Polarization

Intellian Technologies, Inc. declares that v130 complies with the threshold level as defined in §25.222(a)(1)(i)(A); and declares that v130 is in accordance with all defined regulations from §25.222(a)(1)(i)(B) to §25.222(a)(1)(i)(C) at the below stated input power spectral density, with an N value of 1.

Product description	Intellian v130, 125cm Ku-band maritime VSAT antenna system
EIRP spectral density limit	-14.0 dBW/ 4KHz

Intellian Technologies, Inc. declares that the above antenna will maintain a pointing error of less than or equal to 0.2 degree under specified ship motion conditions in accordance with the requirements of §25.222 (a)(1)(ii).

Intellian Technologies, Inc. declares that the above antennas will automatically cease the transmission with a mute command to the modem within 100 milliseconds if the target satellite and the axis of the main lobe of the ESV antenna exceeds 0.5 degree and will not resume until such angle is less than or equal to 0.2 degree in accordance with the requirements of §25.222 (a)(1)(iii)

Radiation pattern data is available upon request to verify the conformance.

Authority: Steve Cha
Director, Research & Development

Signature: 

Date: December 17, 2010



FCC Declaration of Conformity

MITSUBISHI ELECTRIC CORPORATION designs, develops and manufactures maritime VSAT antenna systems for satellite communication at sea and offers them to our customers as products for Earth Station on Vessels (ESV) networks.

FCC regulation 47 CFR 25.222 defines the provisions for blanket licensing of ESV antennas operating in the Ku Band. This document declares that MVA60, 60cm Ku-band maritime VSAT antenna system, complies with the requirements of FCC regulation 47 CFR 25.222 - 2013 version. The relevant test data is available upon request to verify these declarations.

MITSUBISHI ELECTRIC CORPORATION hereby declares that MVA60 will meet the off-axis EIRP spectral-density requirements of 25.222(a)(1)(i) with an N value of 1, when the Input Power spectral density is limited to -22.4 dBW/4kHz.

MITSUBISHI ELECTRIC CORPORATION hereby declares that the antennas MVA60 will maintain a stabilization pointing accuracy of better than 0.2degrees under specified ship motion condition, thus meeting the requirements of 25.222(a)(1)(ii).

MITSUBISHI ELECTRIC CORPORATION hereby declares that the antennas MVA60 will automatically cease transmission within 100 milliseconds if the pointing error should exceed 0.2 degrees (less than 0.5degrees), and will not resume transmission until the error drops below 0.2degrees, thus meeting the requirement of 25.222(a)(1)(iii).

Data related to verifications of the conformance is available upon request.

Masashi Kawanami

Masashi Kawanami, Deputy Senior Manager

Communication, Information & Satellite Communication Systems Department

25 Apr 2013

Date

MITSUBISHI ELECTRIC CORPORATION
COMMUNICATION SYSTEMS CENTER

1-1, 8-chome, Tsukaguchi Honmachi, Amagasaki-city, Hyogo 661-8661, Japan



FCC Declaration of Conformity

MITSUBISHI ELECTRIC CORPORATION designs, develops and manufactures maritime VSAT antenna systems for satellite communication at sea and offers them to our customers as products for Earth Station on Vessels (ESV) networks.

FCC regulation 47 CFR 25.222 defines the provisions for blanket licensing of ESV antennas operating in the Ku Band. This document declares that MVA120, 120cm Ku-band maritime VSAT antenna system, complies with the requirements of FCC regulation 47 CFR 25.222 - 2013 version. The relevant test data is available upon request to verify these declarations.

MITSUBISHI ELECTRIC CORPORATION hereby declares that MVA120 will meet the off-axis EIRP spectral-density requirements of 25.222(a)(1)(i) with an N value of 1, when the Input Power spectral density is limited to -12.3 dBW/4kHz.

MITSUBISHI ELECTRIC CORPORATION hereby declares that the antennas MVA120 will maintain a stabilization pointing accuracy of better than 0.2degrees under specified ship motion condition, thus meeting the requirements of 25.222(a)(1)(ii).

MITSUBISHI ELECTRIC CORPORATION hereby declares that the antennas MVA120 will automatically cease transmission within 100 milliseconds if the pointing error should exceed 0.2 degrees (less than 0.5degrees), and will not resume transmission until the error drops below 0.2degrees, thus meeting the requirement of 25.222(a)(1)(iii).

Data related to verifications of the conformance is available upon request.

Masashi Kawanami

Masashi Kawanami, Deputy Senior Manager
Communication, Information & Satellite Communication Systems Department

25 Apr 2013

Date

MITSUBISHI ELECTRIC CORPORATION
COMMUNICATION SYSTEMS CENTER

1-1, 8-chome, Tsukaguchi Honmachi, Amagasaki-city, Hyogo 661-8661, Japan

Cobham SATCOM
Lundtoftegaardsvej 93 D
2800 Kgs. Lyngby
Denmark

T: +45 39 55 88 00
F: +45 39 55 88 88

Declaration of Thrane & Thrane A/S

1. This declaration refers to the following Thrane & Thrane antenna model:

TT- 7080A Sailor 800 VSAT system, 0.83 meter Ku-band antenna.

2. This declaration covers the requirements on off-axis EIRP spectral density limitations as well as pointing accuracy and cessation of transmissions as described in FCC regulation 47 CFR of September 2009, Section 25.222 paragraphs (a)(1)(I), (a)(1)(II) and (a)(1)(III).
3. Thrane and Thrane A/S hereby declares that the antenna referenced in 1, above, will meet the off-axis EIRP spectral density requirements of section 25.222 (a)(1)(I) with an N value of 1 when the input power spectral density is limited to -19.2 dBW/4kHz."
4. Thrane and Thrane A/S hereby declares that the antenna referenced in 1, above, will maintain a stabilization pointing accuracy of 0.2 degrees RMS or less under specified ship motion conditions, thus meeting the requirements of § 25.222 (a)(1)(III).
5. Thrane and Thrane A/S hereby declares the antenna referenced in 1, above, will automatically cease transmission within 100 milliseconds if the pointing error should exceed 0.5 degrees and will not resume transmission until the pointing error drops below 0.2 degrees, thus meeting the requirements of § 25.222 (a)(1)(III).

Date: 2/10 - 2013



Carsten Thomsen
Project Manager, R&D Antennas
Thrane & Thrane A/S

Declaration of Thrane & Thrane A/S

1. This declaration refers to the following Thrane & Thrane antenna model:
 - TT- 7090B Sailor 900 VSAT system, 1 meter Ku-band antenna.
2. This declaration covers the requirements on off-axis EIRP spectral density limitations as well as pointing accuracy and cessation of transmissions as described in FCC regulation 47 CFR of September 2009, Section 25.222 paragraphs (a)(1)(i), (a)(1)(ii) and (a)(1)(iii).
3. Thrane and Thrane A/S hereby declares that the antenna referenced in 1, above, will meet the off-axis EIRP spectral density requirements of section 25.222 (a)(1)(i) with an N value of 1 when the input power spectral density is limited to -15.8 dBW/4kHz."
4. Thrane and Thrane A/S hereby declares that the antenna referenced in 1, above, will maintain a stabilization pointing accuracy of 0.2 degrees RMS or less under specified ship motion conditions, thus meeting the requirements of § 25.222 (a)(1)(iii).
5. Thrane and Thrane A/S hereby declares the antenna referenced in 1, above, will automatically cease transmission within 100 milliseconds if the pointing error should exceed 0.5 degrees and will not resume transmission until the pointing error drops below 0.2 degrees, thus meeting the requirements of § 25.222 (a)(1)(iii).

Date: 16/8-2013



Carsten Thomsen
Project Manager, R&D Antennas
Thrane & Thrane A/S