



United Arab Emirates



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# TECHNICAL SPECIFICATION

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## V-SAT and Ancillary Equipment

Version 1.0

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Telecommunications Regulatory Authority (TRA)  
P O Box 26662, Abu Dhabi, United Arab Emirates (UAE)  
[www.tra.gov.ae](http://www.tra.gov.ae)

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Technical Specification, EMC and Safety Requirements, Version 1.0, Issued 16 Month 2006

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Technical Specification, EMC and Safety Requirements, Version 1.0, Issued 16 Month 2006

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## 1. Scope

This specification lists the technical requirements applicable to the following types of radio equipment:

V-SAT and ancillary equipment

## 2. Definitions

Unless the context requires otherwise, the expressions and wordings appearing in Federal Law by Decree No. (3) of 2003 Regarding the Organisation of the Telecommunications Sector shall have the same meaning ascribed thereto in the above-mentioned Federal Law by Decree, and the following expression and wording shall have the following meanings assigned thereto:

<b>ANSI</b>	American National Standards Institute <sup>1</sup>
<b>CENELEC</b>	European Committee for Electro-technical Standardisation <sup>2</sup>
<b>CISPR</b>	International Special Committee for Radio Interference <sup>3</sup>
<b>IEC</b>	International Electro-technical Commission <sup>4</sup>
<b>ITU</b>	International Telecommunications Union <sup>5</sup>
<b>ETSI</b>	European Telecommunications Standards Institute <sup>6</sup>

<sup>1</sup> ANSI standards can be obtained from, <http://webstore.ansi.org>

<sup>2</sup> CENELEC standards can be obtained from, [www.cenelec.org](http://www.cenelec.org)

<sup>3</sup> CISPR standards can be obtained from, [www.cenelec.org](http://www.cenelec.org)

<sup>4</sup> IEC standards can be obtained from, [www.iec.ch](http://www.iec.ch)

<sup>5</sup> ITU standards can be obtained from, [www.itu.int](http://www.itu.int)

<sup>6</sup> ETSI standards can be obtained from, [www.etsi.org](http://www.etsi.org)



### 3. Spectrum Allocations

The following frequency bands are allocated for use by radio equipment falling within the scope of this specification:

- 6725 – 7025 MHz
- 12750 – 13250 MHz
- 13750 – 14500 MHz
- 27500 – 27820 MHz
- 28450 – 28940 MHz
- 29460 – 30000 MHz

**Note:** Frequency allocations can change and this information should be checked with TRA Spectrum Affairs department.

### 4. Technical Requirements

#### General

All equipment shall comply with TRA specification TS001 concerning safety and EMC performance.

#### Specific

Unless stated otherwise below, the latest published versions of the following standards shall apply:

- ETSI EN 301 443** Satellite Earth stations and Systems (SES); Harmonised EN for Very Small Aperture Terminal (VSAT); Transmit-only, transmit-and-receive, receive-only satellite earth stations operating in the 4GHz and 6GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive
- ETSI EN 301 428** Satellite Earth stations and Systems (SES); Harmonised EN for Very Small Aperture Terminal (VSAT); Transmit-only, transmit/receive or receive-only satellite earth stations operating in the 11/12/14 GHz frequency bands covering essential requirements under article 3(2) of the R&TTE directive



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- ETSI EN 301 459** Satellite Earth stations and Systems (SES); Harmonised EN for Satellite Interactive Terminal (SIT) and Satellite User Terminals (SUT) transmitting towards satellites in geostationary orbit in the 29.5 – 30.0 GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive
- ETSI EN 301 360** Satellite Earth stations and Systems (SES); Harmonised EN for Satellite Interactive Terminal (SIT) and Satellite User Terminals (SUT) transmitting towards satellites in geostationary orbit in the 27.5 – 29.5 GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive
- ETSI EN 301 489-1** Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- ETSI EN 301 489-12** Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal (VSAT), Satellite Interactive Earth Stations operated in the frequency ranges between 4GHz and 30GHz in the Fixed Satellite Service (FSS)