

SLOVENSKI STANDARD

SIST EN 302 574-2 V2.1.2:2016

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Satelitske zemeljske postaje in sistemi (SES) - Harmonizirani standard, ki zajema bistvene zahteve člena 3.2 direktive 2014/53/EU, za mobilne zemeljske postaje (MES), ki delujejo v frekvenčnih pasovih od 1980 MHz do 2010 MHz (zemlja-vesolje) in od 2170 MHz do 2200 MHz (vesolje-zemlja) - 2. del: Uporabniška oprema za širokopasovne sisteme

Satellite Earth Stations and Systems (SES) - Harmonised Standard for Mobile Earth Stations (MES) operating in the 1 980 MHz to 2 010 MHz (earth-to-space) and 2 170 MHz to 2 200 MHz (space-to-earth) frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU - Part 2: User Equipment (UE) for wideband systems

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**Satellite Earth Stations and Systems (SES);
Harmonised Standard for Mobile Earth Stations (MES)
operating in the 1 980 MHz to 2 010 MHz (earth-to-space) and
2 170 MHz to 2 200 MHz (space-to-earth) frequency bands
covering the essential requirements
of article 3.2 of the Directive 2014/53/EU;
Part 2: User Equipment (UE) for wideband systems**

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Contents

Intellectual Property Rights	11
Foreword.....	11
Modal verbs terminology.....	11
Introduction	12
1 Scope	13
2 References	14
2.1 Normative references	14
2.2 Informative references.....	14
3 Definitions, symbols and abbreviations	15
3.1 Definitions	15
3.2 Symbols.....	16
3.3 Abbreviations	16
4 Technical requirements specifications for UE	18
4.1 Environmental profile.....	18
4.2 Conformance requirements	18
4.2.1 Introduction.....	18
4.2.2 Control and monitoring functions.....	18
4.2.2.1 Definition	18
4.2.2.2 Limit.....	18
4.2.2.3 Conformance.....	19
4.2.3 Maximum output power.....	19
4.2.3.1 Definition	19
4.2.3.2 Limit.....	19
4.2.3.3 Conformance.....	19
4.2.4 Spectrum emissions mask.....	19
4.2.4.1 Definition	19
4.2.4.2 Limit.....	19
4.2.4.3 Conformance.....	20
4.2.5 Transmitter spurious emissions.....	20
4.2.5.1 Definition	20
4.2.5.2 Limits	20
4.2.5.3 Conformance.....	21
4.2.6 Minimum output power	21
4.2.6.1 Definition	21
4.2.6.2 Limits	21
4.2.6.3 Conformance.....	21
4.2.7 Adjacent Channel Leakage Power Ratio (ACLR)	21
4.2.7.1 Definition	21
4.2.7.2 Limits	21
4.2.7.3 Conformance.....	22
4.2.8 Out of synchronization handling of output power	22
4.2.8.1 Definition	22
4.2.8.2 Limits	22
4.2.8.3 Conformance.....	22
4.2.9 Receiver Adjacent Channel Selectivity (ACS)	23
4.2.9.1 Definition	23
4.2.9.2 Limits	23
4.2.9.3 Conformance.....	23
4.2.10 Blocking characteristics.....	23
4.2.10.1 Definition	23
4.2.10.2 Limits	24
4.2.10.3 Conformance.....	24
4.2.11 Receiver spurious response.....	24
4.2.11.1 Definition	24

4.2.11.2	Limits	24
4.2.11.3	Conformance	24
4.2.12	Receiver intermodulation characteristics	24
4.2.12.1	Definition	24
4.2.12.2	Limits	25
4.2.12.3	Conformance	25
4.2.13	Receiver spurious emissions	25
4.2.13.1	Definition	25
4.2.13.2	Limits	25
4.2.13.3	Conformance	26
5	Testing for compliance with technical requirements	26
5.1	Environmental conditions for testing	26
5.1.1	Specification of the environmental test conditions	26
5.1.2	Tests under extreme voltage conditions	26
5.2	Tests frequencies	26
5.3	Interpretation of the measurement results	27
5.4	Radio test suites	28
5.4.1	Control and monitoring functions	28
5.4.1.1	Test method	28
5.4.2	Maximum output power	29
5.4.2.1	Method of test	29
5.4.2.1.1	Initial conditions	29
5.4.2.1.2	Procedure	29
5.4.2.2	Test requirements	29
5.4.3	Spectrum emission mask	29
5.4.3.1	Method of test	29
5.4.3.1.1	Initial conditions	29
5.4.3.1.2	Procedure	29
5.4.3.2	Test requirements	30
5.4.4	Transmitter spurious emissions	30
5.4.4.1	Method of test	30
5.4.4.1.1	Initial conditions	30
5.4.4.1.2	Procedure	30
5.4.4.2	Test requirements	30
5.4.5	Minimum output power	30
5.4.5.1	Method of test	30
5.4.5.1.1	Initial conditions	30
5.4.5.1.2	Procedure	30
5.4.5.2	Test requirements	30
5.4.6	Adjacent Channel Leakage power Ratio (ACLR)	31
5.4.6.0	General	31
5.4.6.1	Method of test	31
5.4.6.1.1	Initial conditions	31
5.4.6.1.2	Procedure	31
5.4.6.2	Test requirements	31
5.4.7	Out of synchronization handling of output power	31
5.4.7.1	Method of test	31
5.4.7.1.1	Initial conditions	31
5.4.7.1.2	Procedure	31
5.4.7.2	Test requirements	32
5.4.8	Adjacent Channel Selectivity (ACS)	32
5.4.8.1	Method of test	32
5.4.8.1.1	Initial conditions	32
5.4.8.1.2	Procedure	32
5.4.8.2	Test requirements	33
5.4.9	Blocking characteristics	33
5.4.9.1	Method of test	33
5.4.9.1.1	Initial requirements	33
5.4.9.1.2	Procedure	33
5.4.9.2	Test requirements	34
5.4.10	Receiver spurious response	34

5.4.10.1	Method of test	34
5.4.10.1.1	Initial conditions	34
5.4.10.1.2	Procedure.....	34
5.4.10.2	Test requirements.....	34
5.4.11	Receiver intermodulation characteristics	34
5.4.11.1	Method of test	34
5.4.11.1.1	Initial conditions	34
5.4.11.1.2	Procedure.....	34
5.4.11.2	Test requirements.....	35
5.4.12	Receiver spurious emissions	35
5.4.12.1	Method of test	35
5.4.12.1.1	Initial conditions	35
5.4.12.1.2	Procedure.....	35
5.4.12.2	Test requirements.....	35
6	Technical requirements specifications for the UE mounted on aircraft (Aeronautical Terminals).....	35
6.1	Environmental profile.....	35
6.2	Conformance requirements	35
6.2.0	General.....	35
6.2.1	Introduction.....	35
6.2.2	Transmitter Maximum output power	36
6.2.2.1	Definition	36
6.2.2.2	Limit.....	36
6.2.2.3	Conformance.....	36
6.2.3	Transmitter Spectrum emissions mask	36
6.2.3.1	Definition	36
6.2.3.2	Limit.....	37
6.2.3.3	Conformance.....	37
6.2.4	Transmitter spurious emissions.....	37
6.2.4.1	Definition	37
6.2.4.2	Limits	37
6.2.4.3	Conformance.....	38
6.2.5	Transmitter Minimum output power.....	38
6.2.5.1	Definition	38
6.2.5.2	Limits	38
6.2.5.3	Conformance.....	38
6.2.6	Adjacent Channel Leakage Power Ratio (ACLR)	38
6.2.6.1	Definition	38
6.2.6.2	Limits	38
6.2.6.3	Conformance.....	39
6.2.7	Receiver Adjacent Channel Selectivity (ACS)	39
6.2.7.1	Definition	39
6.2.7.2	Limits	39
6.2.7.3	Conformance.....	40
6.2.8	Blocking characteristics	40
6.2.8.1	Definition	40
6.2.8.2	Limits	40
6.2.8.3	Conformance.....	41
6.2.9	Receiver spurious response.....	42
6.2.9.1	Definition	42
6.2.9.2	Limits	42
6.2.9.3	Conformance.....	42
6.2.10	Receiver intermodulation characteristics	42
6.2.10.1	Definition	42
6.2.10.2	Limits	42
6.2.10.3	Conformance.....	43
6.2.11	Receiver spurious emissions	43
6.2.11.1	Definition	43
6.2.11.2	Limits	43
6.2.11.3	Conformance.....	43
7	Testing for compliance with technical requirements for Aeronautical Terminal (AT).....	44

7.1	Environmental conditions for testing	44
7.1.0	General.....	44
7.1.1	Specification of the environmental test conditions	44
7.2	Void.....	44
7.3	Interpretation of the measurement results	44
7.4	Radio test suites.....	45
7.4.1	Void.....	45
7.4.2	Maximum output power.....	45
7.4.2.1	Method of test	45
7.4.2.1.1	Initial conditions	45
7.4.2.1.2	Procedure.....	46
7.4.2.2	Test requirements	46
7.4.3	Transmitter Spectrum emission mask	46
7.4.3.1	Method of test	46
7.4.3.1.1	initial conditions	46
7.4.3.1.2	Procedure.....	46
7.4.3.2	Test requirements	47
7.4.4	Transmitter spurious emissions.....	47
7.4.4.1	Method of test	47
7.4.4.1.1	Initial conditions	47
7.4.4.1.2	Procedure.....	47
7.4.4.2	Test requirements	48
7.4.5	Transmitter Minimum output power.....	48
7.4.5.1	Method of test	48
7.4.5.1.1	Initial conditions	48
7.4.5.1.2	Procedure.....	48
7.4.5.2	Test requirements.....	48
7.4.6	Adjacent Channel Leakage power Ratio (ACLR)	49
7.4.6.1	Method of test	49
7.4.6.1.1	Initial conditions	49
7.4.6.1.2	Procedure.....	49
7.4.6.2	Test requirements.....	49
7.4.7	Void.....	50
7.4.8	Receiver Adjacent Channel Selectivity (ACS).....	50
7.4.8.1	Method of test	50
7.4.8.1.1	Initial conditions	50
7.4.8.1.2	Procedure.....	50
7.4.8.2	Test requirements.....	51
7.4.9	Blocking characteristics	51
7.4.9.1	Method of test	51
7.4.9.1.1	Initial requirements.....	51
7.4.9.1.2	In-Band Procedure.....	51
7.4.9.1.3	Out-Of-Band Procedure.....	52
7.4.9.1.4	Narrow-Band Procedure	52
7.4.9.2	Test requirements	53
7.4.10	Receiver spurious response.....	53
7.4.10.1	Method of test	53
7.4.10.1.1	Initial conditions	53
7.4.10.1.2	Procedure.....	53
7.4.10.2	Test requirements.....	53
7.4.11	Receiver intermodulation characteristics	53
7.4.11.1	Method of test	53
7.4.11.1.1	Initial conditions	53
7.4.11.1.2	Procedure.....	54
7.4.11.2	Test Requirements.....	54
7.4.12	Receiver spurious emissions	54
7.4.12.1	Method of test	54
7.4.12.1.1	Initial conditions	54
7.4.12.1.2	Procedure.....	55
7.4.12.2	Test requirements.....	55
8	Technical requirements specifications for non-aeronautical UE E-UTRA	55

8.0	General	55
8.1	Environmental profile.....	56
8.2	Conformance requirements	56
8.2.0	General.....	56
8.2.1	Introduction.....	56
8.2.2	Transmitter Maximum Output Power	57
8.2.2.1	Transmitter maximum output power for Single Carrier.....	57
8.2.2.1.1	Definition.....	57
8.2.2.1.2	Limits	57
8.2.2.1.3	Conformance	58
8.2.2.2	Transmitter output power for intra-band contiguous Carrier Aggregation (DL CA and UL CA).....	58
8.2.2.2.1	Definition.....	58
8.2.2.2.2	Limits	58
8.2.2.2.3	Conformance	58
8.2.2.3	Transmitter output power for UL-MIMO	59
8.2.2.3.1	Definition.....	59
8.2.2.3.2	Limits	59
8.2.2.3.3	Conformance	59
8.2.3	Transmitter Spectrum Emission Mask.....	60
8.2.3.1	Transmitter spectrum emission mask for Single Carrier.....	60
8.2.3.1.1	Definition.....	60
8.2.3.1.2	Limits	60
8.2.3.1.3	Conformance	61
8.2.3.2	Transmitter spectrum emission mask for intra-band contiguous Carrier Aggregation (DL CA and UL CA)	61
8.2.3.2.1	Definition.....	61
8.2.3.2.2	Limits	61
8.2.3.2.3	Conformance	61
8.2.3.3	Transmitter spectrum emission mask for UL-MIMO	62
8.2.3.3.1	Definition.....	62
8.2.3.3.2	Limits	62
8.2.3.3.3	Conformance	62
8.2.4	Transmitter Spurious Emissions.....	62
8.2.4.1	Transmitter spurious emissions for Single Carrier.....	62
8.2.4.1.1	Definition.....	62
8.2.4.1.2	Limits	62
8.2.4.1.3	Conformance	64
8.2.4.2	Transmitter spurious emissions for intra-band contiguous Carrier Aggregation (DL CA and UL CA).....	64
8.2.4.2.1	Definition.....	64
8.2.4.2.2	Limits	65
8.2.4.2.3	Conformance	66
8.2.4.3	Transmitter spurious emissions for UL-MIMO	66
8.2.4.3.1	Definition.....	66
8.2.4.3.2	Limits	66
8.2.4.3.3	Conformance	66
8.2.5	Transmitter Minimum Output Power.....	67
8.2.5.1	Transmitter minimum output power for Single Carrier.....	67
8.2.5.1.1	Definition.....	67
8.2.5.1.2	Limits	67
8.2.5.1.3	Conformance	67
8.2.5.2	Transmitter minimum output power for intra-band contiguous Carrier Aggregation (DL CA and UL CA)	67
8.2.5.2.1	Definition.....	67
8.2.5.2.2	Limits	67
8.2.5.2.3	Conformance	67
8.2.5.3	Transmitter minimum output power for UL-MIMO	68
8.2.5.3.1	Definition.....	68
8.2.5.3.2	Limits	68
8.2.5.3.3	Conformance	68
8.2.6	Receiver Adjacent Channel Selectivity (ACS)	68
8.2.6.1	Definition	68

8.2.6.2	Limits	68
8.2.6.3	Conformance	69
8.2.7	Receiver Blocking Characteristics	69
8.2.7.1	Definition	69
8.2.7.2	Limits	69
8.2.7.3	Conformance	71
8.2.8	Receiver Spurious Response	71
8.2.8.1	Definition	71
8.2.8.2	Limits	71
8.2.8.3	Conformance	72
8.2.9	Receiver Intermodulation Characteristics	72
8.2.9.1	Definition	72
8.2.9.2	Limits	72
8.2.9.3	Conformance	72
8.2.10	Receiver Spurious Emissions	73
8.2.10.1	Definition	73
8.2.10.2	Limits	73
8.2.10.3	Conformance	73
8.2.11	Transmitter Adjacent Channel Leakage Power Ratio	73
8.2.11.1	Transmitter adjacent channel leakage power ratio for Single Carrier	73
8.2.11.1.1	Definition	73
8.2.11.1.2	Limits	73
8.2.11.1.3	Conformance	74
8.2.11.2	Transmitter adjacent channel leakage power ratio for intra-band contiguous Carrier Aggregation (DL CA and UL CA)	74
8.2.11.2.1	Definition	74
8.2.11.2.2	Limits	75
8.2.11.2.3	Conformance	75
8.2.11.3	Transmitter adjacent channel leakage power ratio for UL-MIMO	75
8.2.11.3.1	Definition	75
8.2.11.3.2	Limits	76
8.2.11.3.3	Conformance	77
9	Testing for compliance with technical requirements for non-aeronautical UE E-UTRA	77
9.1	Environmental conditions for testing	77
9.2	Interpretation of the measurement results	77
9.3	Radio test suites	78
9.3.1	Transmitter Maximum Output Power	78
9.3.1.1	Transmitter maximum output power for Single Carrier	78
9.3.1.1.1	Method of test	78
9.3.1.1.2	Test requirements	79
9.3.1.2	Transmitter maximum output power for intra-band contiguous Carrier Aggregation (DL CA and UL CA)	79
9.3.1.2.1	Method of test	79
9.3.1.2.2	Test requirements	80
9.3.1.3	Transmitter maximum output power for UL-MIMO	80
9.3.1.3.1	Method of test	80
9.3.1.3.2	Test requirements	81
9.3.2	Transmitter Spectrum Emission Mask	81
9.3.2.1	Transmitter spectrum emission mask for Single Carrier	81
9.3.2.1.1	Method of test	81
9.3.2.1.2	Test requirements	81
9.3.2.2	Transmitter spectrum emission mask for intra-band contiguous Carrier Aggregation (DL CA and UL CA)	82
9.3.2.2.1	Method of test	82
9.3.2.2.2	Test requirements	82
9.3.2.3	Transmitter spectrum emission mask for UL-MIMO	83
9.3.2.3.1	Method of test	83
9.3.2.3.2	Test requirements	83
9.3.3	Transmitter Spurious Emissions	83
9.3.3.1	Transmitter spurious emissions for Single Carrier	83
9.3.3.1.1	Method of test	83

9.3.3.1.2	Test requirements	84
9.3.3.2	Transmitter spurious emissions for intra-band contiguous Carrier Aggregation (DL CA and UL CA).....	84
9.3.3.2.1	Method of test.....	84
9.3.3.2.2	Test requirements	85
9.3.3.3	Transmitter spurious emissions for UL-MIMO	85
9.3.3.3.1	Method of test.....	85
9.3.3.3.2	Test requirements	86
9.3.4	Transmitter Minimum Output Power.....	86
9.3.4.1	Transmitter minimum output power for Single Carrier.....	86
9.3.4.1.1	Method of test.....	86
9.3.4.1.2	Test requirements	87
9.3.4.2	Transmitter minimum output power for intra-band contiguous Carrier Aggregation (DL CA and UL CA)	87
9.3.4.2.1	Method of test.....	87
9.3.4.2.2	Test requirements	88
9.3.4.3	Transmitter minimum output power for UL-MIMO	88
9.3.4.3.1	Method of test.....	88
9.3.4.3.2	Test requirements	89
9.3.5	Receiver Adjacent Channel Selectivity (ACS)	89
9.3.5.1	Method of test	89
9.3.5.1.1	Initial conditions	89
9.3.5.1.2	Procedure.....	89
9.3.5.2	Test requirements	90
9.3.6	Receiver Blocking Characteristics	90
9.3.6.1	Method of test	90
9.3.6.1.1	Initial conditions.....	90
9.3.6.1.2	In-Band Procedure.....	91
9.3.6.1.3	Out-Of-Band Procedure.....	91
9.3.6.1.4	Narrow-Band Procedure.....	91
9.3.6.2	Test requirements	92
9.3.7	Receiver Spurious Response.....	92
9.3.7.1	Method of test.....	92
9.3.7.1.1	Initial conditions.....	92
9.3.7.1.2	Procedure.....	92
9.3.7.2	Test requirements	92
9.3.8	Receiver Intermodulation Characteristics	93
9.3.8.1	Method of test	93
9.3.8.1.1	Initial conditions.....	93
9.3.8.1.2	Procedure.....	93
9.3.8.2	Test requirements	93
9.3.9	Receiver Spurious Emissions.....	94
9.3.9.1	Method of test	94
9.3.9.1.0	General	94
9.3.9.1.1	Procedure.....	94
9.3.9.2	Test requirements	94
9.3.10	Transmitter Adjacent Channel Leakage Power Ratio	94
9.3.10.1	Transmitter adjacent channel leakage power ratio for Single Carrier	94
9.3.10.1.1	Method of test.....	94
9.3.10.1.2	Test requirements	95
9.3.10.2	Transmitter adjacent channel leakage power ratio for intra-band contiguous Carrier Aggregation (DL CA and UL CA).....	95
9.3.10.2.1	Method of test.....	95
9.3.10.2.2	Test requirements	96
9.3.10.3	Transmitter adjacent channel leakage power ratio for UL-MIMO.....	97
9.3.10.3.1	Method of test.....	97
9.3.10.3.2	Test requirements	97
Annex A (normative):	Relationship between the present document and the essential requirements of Directive 2014/53/EU	98
Annex B (informative):	Environmental profile specification	100

B.0	General	100
B.1	Introduction	100
B.2	Temperature	100
B.3	Voltage	100
B.4	Test environment.....	101
Annex C (informative):	Bibliography.....	102
History		103

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Foreword

This Harmonised European Standard (EN) has been produced by ETSI Technical Committee Satellite Earth Stations and Systems (SES).

The present document has been prepared under the Commission's standardisation request C(2015) 5376 final [i.13] to provide one voluntary means of conforming to the essential requirements of Directive 2014/53/EU on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC [9].

Once the present document is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of the present document given in Table A.1 confers, within the limits of the scope of the present document, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

The present document is part 2 of a multi-part deliverable covering the Harmonised Standard for Mobile Earth Stations (MES) operating in the 1 980 MHz to 2 010 MHz (earth-to-space) and 2 170 MHz to 2 200 MHz (space-to-earth) frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU, as identified below:

Part 1: "Complementary Ground Component (CGC) for wideband systems";

Part 2: "User Equipment (UE) for wideband systems";

Part 3: "User Equipment (UE) for narrowband systems".

Proposed national transposition dates

Date of latest announcement of this EN (doa):	31 December 2016
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 June 2017
Date of withdrawal of any conflicting National Standard (dow):	30 June 2018

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

Introduction

The present document is part of a set of standards developed by ETSI and is designed to fit in a modular structure to cover all radio and telecommunications terminal equipment within the scope of the RE Directive [9]. The modular structure is shown in ETSI EG 201 399 [i.3].

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 302 574-2 V2.1.2:2016](https://standards.iteh.ai/catalog/standards/sist/3a88e6a5-128d-4444-92ed-d83b10d05fa9/sist-en-302-574-2-v2-1-2-2016)

<https://standards.iteh.ai/catalog/standards/sist/3a88e6a5-128d-4444-92ed-d83b10d05fa9/sist-en-302-574-2-v2-1-2-2016>

1 Scope

The present document applies to User Equipment (UE) radio equipment type which has the following characteristics:

- these UEs have both transmit and receive capabilities and operate in an hybrid Satellite/terrestrial network i.e. a satellite and/or Complementary Ground Component (CGC) network;
- the satellite component is based on GSO;
- these UEs operate with an assigned channel signal bandwidth (CBw) of 1 MHz or greater;
- these UEs may be handset, handheld, portable, vehicle-mounted, aircraft mounted device (in this case the present document refers to Aeronautical Terminal - AT) host connected, semi-fixed or fixed equipment, or may be an element in a multi-mode terminal. It may consist of a number of modules with associated connections and user interface, or may be a self contained single unit;
- if the UE is an element in a multi-mode terminal, unless otherwise stated in the present document, its requirements apply only to the UE element of the terminal operating in the Mobile Satellite Service (MSS) frequency bands given in Table 1;
- the present document applies for several class of UEs:
 - UE for terrestrial use Power Class 1 - clauses 4 and 5;
 - UE for terrestrial use Power Class 1bis - clauses 4 and 5;
 - UE for terrestrial use Power Class 2 - clauses 4 and 5;
 - UE for terrestrial use Power Class 3 - clauses 4 and 5;
 - UE for aeronautical use (Aeronautical Terminal - AT) - clauses 6 and 7;
 - UE for terrestrial use (non-aeronautical; UE-E-UTRA) - clauses 8 and 9;
- the Aeronautical Terminals (AT) operates at altitude of 1.000 m and higher above ground level.

This radio equipment type is capable of operating in all or any part of the frequency bands given in Table 1.

Table 1: Mobile Satellite Service UE frequency bands

Operating band	Direction of transmission	UE frequency bands
I	Transmit	1 980 MHz to 2 010 MHz
	Receive	2 170 MHz to 2 200 MHz

The present document is intended to cover the provisions of Directive 2014/53/EU [9] (RE Directive) article 3.2, which states that "*Radio equipment shall be so constructed that it both effectively uses and supports the efficient use of radio spectrum in order to avoid harmful interference*".

NOTE 1: In addition to the unwanted emission limits defined in clauses 4.2.4 and 4.2.5 of the present document, additional operational constraints may be required to prevent harmful interference into services operating in the neighbouring bands outside the operational band defined in Table 1.

In addition to the present document, other ENs that specify technical requirements in respect of essential requirements under other parts of article 3 of the RE Directive [9] may apply to equipment within the scope of the present document.

NOTE 2: A list of such ENs is included on the web site <http://www.newapproach.org>.