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Technical Specification

3rd Generation Partnership Project;
Technical Specification Group Radio Access Network;
Evolved Universal Terrestrial Radio Access (E-UTRA);
User Equipment (UE) conformance specification;
Radio transmission and reception;
Part 2: Implementation Conformance Statement (ICS)
(Release 11)





The present document has been developed within the 3<sup>rd</sup> Generation Partnership Project (3GPP <sup>TM</sup>) and may be further elaborated for the purposes of 3GPP.

Keywords

mobile, UE, terminal, testing, radio, E-UTRA

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### **Foreword**

This Technical Specification has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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- x the first digit:
  - 1 presented to TSG for information;
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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

### Introduction

The present document is part 2 of a multi-parts TS:

3GPP TS 36.521-1 [1]: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 1: Conformance testing.

3GPP TS 36.521-2: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part :2 Implementation Conformance Statement (ICS).

3GPP TS 36.521-3 [2]: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 3: Radio Resource Management (RRM) Conformance Testing.

## 1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 3G Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE), in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [3] and ISO/IEC 9646-7 [4]

The present document specifies the recommended applicability statement for the test cases included in 3GPP TS 36.521-1 [1] and 3GPP TS 36.521-3 [2]. These applicability statements are based on the features implemented in the LIF

Special conformance testing functions can be found in 3GPP TS 36.509 [5] and the common test environments are included in 3GPP TS 36.508 [6].

The present document is valid for UE implemented according to 3GPP releases starting from Release 8 up to the Release indicated on the cover page of the present document.

## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.
- [1] 3GPP TS 36.521-1: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 1: Conformance testing ".
- [2] 3GPP TS 36.521-3: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 3: Radio Resource Management Conformance Testing ".
- [3] ISO/IEC 9646-1: "Information technology Open systems interconnection Conformance testing methodology and framework Part 1: General concepts".
- [4] ISO/IEC 9646-7: "Information technology Open systems interconnection Conformance testing methodology and framework Part 7: Implementation Conformance Statements".
- [5] 3GPP TS 36.509: " Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing functions for User Equipment".
- [6] 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA); Common Test Environments for User Equipment (UE) Conformance Testing".
- [8] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [9] 3GPP TS 36.201: "LTE Physical Layer General Description"
- [10] 3GPP TS 36.302: "Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by the physical layer for E-UTRA".
- [11] 3GPP TS 36.321: "Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification".
- [12] 3GPP TS 36.322: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification".

[13]	3GPP TS 36.323: "Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification".
[14]	3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC) Protocol Specification".
[15]	3GPP TS 24.301: "Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3"
[16]	3GPP TS 36.307: "Requirements on User Equipments (UEs) Supporting a release-independent frequency band".

## 3 Definitions, symbols and abbreviations

For the purposes of the present document, the following terms, definitions, symbols and abbreviations apply:

- such given in TR 21.905 [8]
- such given in ISO/IEC 9646-1 [3] and ISO/IEC 9646-7 [4]

NOTE: Some terms and abbreviations defined in [3] and [4] are explicitly included below with small modification to reflect the terminology used in 3GPP.

#### 3.1 Definitions

**Implementation Conformance Statement (ICS):** statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented

ICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS

Implementation eXtra Information for Testing (IXIT): A statement made by a supplier or implementer of an UEUT which contains or references all of the information (in addition to that given in the ICS) related to the UEUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the UEUT

**IXIT proforma:** A document, in the form of a questionnaire, which when completed for an UEUT becomes an IXIT

**Protocol Implementation Conformance Statement (PICS):** An ICS for an implementation or system claimed to conform to a given protocol specification

**Protocol Implementation eXtra Information for Testing (PIXIT):** An IXIT related to testing for conformance to a given protocol specification

static conformance review: A review of the extent to which the static conformance requirements are claimed to be supported by the UEUT, by comparing the answers in the ICS(s) with the static conformance requirements expressed in the relevant specification(s)

### 3.2 Symbols

No specific symbols have been identified so far.

#### 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [8].

For the purposes of the present document, the following abbreviations apply:

ICS Implementation Conformance Statement

IXIT Implementation eXtra Information for Testing
PICS Protocol Implementation Conformance Statement
PIXIT Protocol Implementation eXtra Information for Testing

RRM Radio Resource Management SCS System Conformance Statement

TC Test Case

UEUT User Equipment Under Test

## 4 Recommended test case applicability

The applicability of each individual test is identified in the tables 4.1-1 or 4.2-1. This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of the present document.

Additional information related to the Test Case (TC), e.g. affecting its dynamic behaviour or its execution may be provided as well

The columns in tables 4.1-1/4.2-1 have the following meaning:

#### Clause

The clause column indicates the clause number in TS 36.521-1 [1] or respectively TS 36.521-3 [2] that contains the test body.

#### Title

The title column describes the name of the test and contains the clause title of the clause in TS 36.521-1 [1] or TS 36.521-3 [2] that contains the test body.

#### Release

The release column indicates the earliest release from which each test case is applicable.

#### Applicability - Condition

The following notations are used for the applicability column:

R recommended - the test case is recommended to all terminals supporting E-UTRA

O optional – the test case is optional

N/A not applicable - in the given context, the test case is not recommended.

Ci conditional - the test is recommended ("R") or not ("N/A") depending on the support of other

items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ...

THEN ... ELSE...) ELSE..." is used to avoid ambiguities.

#### Applicability - Comments

This comments column contains a verbal description of the condition included in the applicability column.

#### Additional Information

This column contains indication if the test case may perform differently depending on the UE capabilities.

NOTE To meet the validation requirements from certification bodies then there is a need to uniquely reference the FDD and TDD branch (i.e. different behaviour within one and the same TC) of common FDD and TDD test cases. The FDD and TDD branches of common FDD and TDD test cases can be referenced by amending a "FDD" or "TDD" suffix to the test case clause number. For example for test case 6.2.2 the FDD and TDD branches can be identified by "6.2.2 FDD" and "6.2.2 TDD".

## 4.1 RF conformance test cases

Table 4.1-1: Applicability of RF conformance test cases, ref. TS 36.521-1 [1]

Clause	Title	Release		Applicability	Additional Information				
			Condition	Comments					
Transmitter Characteristics									
6.2.2	UE Maximum Output Power	Rel-8	R	UE supporting E-UTRA	FDD				
					TDD				
6.2.2_1	UE Maximum Output Power for HPUE	Rel-11	C39	UE supporting E-UTRA Power Class 1	FDD				
	IOITIFUE			Fower Class 1	TDD				
6.2.2A. 1	UE Maximum Output Power for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD				
	,				TDD				
6.2.2B	UE Maximum Output Power for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD				
				UE supporting E-UTRA,	TDD				
6.2.3	Maximum Power Reduction (MPR)	Rel-8	N/A	The minimum requirement tested in 6.2.3 is covered by test case 6.6.2.3.	FDD				
					TDD				
6.2.3_1	Maximum Power Reduction (MPR) for HPUE	Rel-11	N/A	UE supporting E-UTRA Power Class 1 .The minimum requirement tested in 6.2.3_1 is covered by test case	FDD				
				6.6.2.3_1.	TDD				
6.2.3A. 1	Maximum Power Reduction (MPR) for CA (intra-band contiguous DL CA and UL CA)	Rel-10	N/A	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA. The minimum requirement tested in 6.2.3A.1 is covered by test case 6.6.2.3A.1	FDD				
					TDD				
6.2.3B	Maximum Power Reduction (MPR) for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD				
				UE supporting E-UTRA.	TDD				
6.2.4	Additional Maximum Power Reduction (A-MPR)	Rel-8	N/A	The minimum requirement tested in 6.2.4 is covered by test case 6.6.2.2 or 6.6.3.3 according to the supported NS value.	FDD				
					TDD				
6.2.4_1	Additional Maximum Power Reduction (A-MPR) for	Rel-11	N/A	UE supporting E-UTRA Power Class 1.The minimum requirement tested in 6.2.4_1 is	FDD				
6.2.4_1	HPUE	1761-11	IWA	covered by test case 6.6.2.2 or 6.6.3.3 according to the	TDD				

Clause	Title	Release		Applicability	
			Condition	Comments	
				supported NS value.	
6.2.4A. 1	Additional Maximum Power Reduction (A-MPR) for CA (intra-band contiguous DL CA and UL CA)	Rel-10	N/A	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA. The minimum requirement tested in 6.2.4A.1 is covered by test case 6.6.2.2A.1 or 6.6.3.3A.1 according to the supported NS value.	FDD
					TDD
6.2.4B	Additional Maximum Power Reduction (A-MPR) for UL- MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
6.2.5	Configured UE transmitted Output Power	Rel-8	R	UE supporting E-UTRA	FDD
	Configured HE transmitted			LIE supporting E LITEA	TDD FDD
6.2.5_1	Configured UE transmitted Output Power for HPUE	Rel-11	C39	UE supporting E-UTRA Power Class 1	TDD
6.2.5A. 1	Configured UE transmitted Output Power for CA (intra- band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
6.2.5A. 2	Configured UE transmitted Output Power for CA (interband DL CA without UL CA)	Rel-10	C21	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
					TDD
6.2.5B	Configured transmitted power for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD TDD
6.3.1	Void				טטו
6.3.2	Minimum Output Power	Rel-8	R	UE supporting E-UTRA	FDD
	•				TDD
6.3.2A. 1	Minimum Output Power for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
6.3.2B	Minimum Output Power for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
0.0.0	T "OFF 5	D 10	 	HE CENTRA	TDD
6.3.3	Transmit OFF Power	Rel-8	R	UE supporting E-UTRA	FDD
	Transmit OFF Day ( OA			HE some solds at E LIEDA	TDD
6.3.3A. 1	Transmit OFF Power for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
6.3.3B	UE Transmit OFF power for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
0000	0 10:1/0== ::	<b>D</b>	_		TDD
6.3.4.1	General ON/OFF time mask	Rel-8	R	UE supporting E-UTRA	FDD
6242					TDD
6.3.4.2. 1	PRACH time mask	Rel-8	R	UE supporting E-UTRA	FDD TDD
6.3.4.2.	000 (	D 10	5		
2	SRS time mask	Rel-8	R	UE supporting E-UTRA	FDD TDD
		1		1	טטון

Clause	Title	Release	Applicability		Additional Information
			Condition	Comments	
6.3.4A. 1.1	General ON/OFF time mask for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	·				TDD
6.3.4B	ON/OFF time mask for UL- MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
6.3.5.1	Power Control Absolute Power Tolerance	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.3.5.2	Power Control Relative Power Tolerance	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.3.5.3	Aggregate Power Control Tolerance	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.3.5A. 1.1	Power Control Absolute Power Tolerance for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
6.3.5A. 2.1	Power Control Relative Power Tolerance for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
6.3.5A. 3.1	Aggregate Power Control Tolerance for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	,				TDD
6.3.5B. 1	Power Control Absolute power tolerance for UL- MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
6.3.5B. 2	Power Control Relative power tolerance for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
0.0.50	A			LIE	TDD
6.3.5B. 3	Aggregate power control tolerance for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD TDD
6.5.1	Frequency Error	Rel-8	R	UE supporting E-UTRA	FDD
0.5.1	Trequency Entor	1161-0		OL Supporting E-011(A	TDD
6.5.1A. 1	Frequency Error for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	,				TDD
6.5.1B	Frequency Error for UL- MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
6.5.2.1	Error Vector Magnitude (EVM)	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.5.2.1 A	PUSCH-EVM with exclusion period	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.5.2.2	Carrier leakage	Rel-8	R	UE supporting E-UTRA	FDD
6522	In-band emissions for non	Dol 0	D	LIE cupporting E LITEA	TDD
6.5.2.3	allocated RB	Rel-8	R	UE supporting E-UTRA	FDD
	İ	Ì			TDD

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
	flatness				TDD
6.5.2A. 1.1	Error Vector Magnitude (EVM) for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	<i>O71</i> 9				TDD
6.5.2A. 2.1	Carrier leakage for CA (intra- band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
6.5.2A. 3.1	In-band emissions for non allocated RB for CA (intraband contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	·				TDD
6.5.2B. 1	Error Vector Magnitude for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
6.5.2B.				UE supporting E-UTRA	TDD
2	Carrier leakage for UL-MIMO	Rel-10	C07	and UL_MIMO	FDD
6.5.2B.	In-band emissions for non			UE supporting E-UTRA	TDD
3	allocated RB for UL-MIMO	Rel-10	C07	and UL_MIMO	FDD
0.5.00	E)/Magualizar an astrona			LIF average white or F LITD A	TDD
6.5.2B. 4	EVM equalizer spectrum flatness for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
6.6.1	Occupied bandwidth	Rel-8	R	UE supporting E-UTRA	FDD TDD
6.6.1A. 1	Occupied bandwidth for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
6.6.1B	Occupied bandwidth for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
6.6.2.1	Spectrum Emission Mask	Rel-8	R	UE supporting E-UTRA	TDD FDD
0.0.2.1	Spectrum Emission wask	IXeI-0	IX .	or supporting E-o ma	TDD
6.6.2.1 A.1	Spectrum Emission Mask for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
6.6.2.1 B	Spectrum Emission Mask for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
	Additional Spectrum				TDD
6.6.2.2	Additional Spectrum Emission Mask	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.6.2.2 B	Additional Spectrum Emission Mask for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
				_	TDD
6.6.2.3	Adjacent Channel Leakage power Ratio	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.6.2.3_	Adjacent Channel Leakage	Rel-11	C39	UE supporting E-UTRA	FDD
1	power Ratio for HPUE	1/01-11	039	Power Class 1	TDD
6.6.2.3 A.1	Adjacent Channel Leakage power Ratio for CA (intraband contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	<u> </u>				TDD

11

Condition   Comments	Clause	Title	Release		Applicability	Additional Information
B				Condition	Comments	
6.6.2.4   Void   Ca.3.1   Transmitter Spurious emissions for CA (Intra-band contiguous DL CA and UL CA)   Ca.3.2   Spurious emissions band UE co-existence for CA (Intra-band configuous DL CA and UL CA)   Ca.3.3.1   Ca.3.3.3.1   Ca.3.3.1   Ca.		Adjacent Channel Leakage power Ratio for UL-MIMO	Rel-10	C07		FDD
Transmitter Spurious emissions   Rel-8   Rel-10   UE supporting E-UTRA   FDD	0.004	M: I				TDD
emissions   emissions   Rel-8   R			5	_		
Transmiter Spurious emissions for CA (intra-band contiguous DL CA and UL CA)   TDD	6.6.3.1		Rel-8	R	UE supporting E-UTRA	
6.6.3.1 emissions for CA (intra-band contiguous DL CA and UL CA)  Spurious emission band UE co-existence for CA (intra-band contiguous DL CA and UL CA)  Spurious emission band UE co-existence for CA (intra-band contiguous DL CA and UL CA)  Spurious emission band UE co-existence for CA (intra-band contiguous DL CA and UL CA)  Rel-10 C19 UE supporting E-UTRA and intra-band contiguous DL CA and UL CA)  Additional spurious emissions for CA (intra-band contiguous DL CA and UL CA)  Rel-10 C19 UE supporting E-UTRA and intra-band contiguous DL CA and UL CA  Rel-10 C19 UE supporting E-UTRA and intra-band contiguous DL CA and UL CA  Rel-10 C19 UE supporting E-UTRA and intra-band contiguous DL CA and UL CA  ToD  ToD  ToD  Rel-10 C19 UE supporting E-UTRA and intra-band contiguous DL CA and UL CA  ToD  ToD  ToD  ToD  ToD  ToD  ToD  To		Transmitter Spurious				טטו
Spurious emission band UE co-existence or CA (intra-band contiguous DL CA and UL CA)   Spurious emission band UE co-existence for CA (intra-band contiguous DL CA and UL CA)   TDD		emissions for CA (intra-band contiguous DL CA and UL	Rel-10	C19	and intra-band contiguous	
co-existence  Spurious emission band UE co-existence for CA (intra-band contiguous DL CA and UL CA)  Spurious emission band UE co-existence for CA (intra-band contiguous DL CA and UL CA)  Rel-10  6.6.3.3 Additional spurious emissions  Rel-8 R UE supporting E-UTRA and intra-band contiguous DL CA and UL CA  Additional spurious emissions for CA (intra-band contiguous DL CA and UL CA)  Rel-10  6.6.3.3 Additional spurious emissions for CA (intra-band contiguous DL CA and UL CA)  Rel-10  6.7 Transmit intermodulation  6.7 Transmit intermodulation for CA (intra-band contiguous DL CA and UL CA)  TOD  6.7 Transmit intermodulation for UL-MIMO  TOD  6.7 Transmit intermodulation for UL-MIMO  TIME  6.7 Transmit intermodulation for UL-MIMO  TIME  6.8 Transmit intermodulation for UL-MIMO  Time alignment between transmitter branches for UL-MIMO  Time alignment between transmitter branches for UL-MIMO  Rel-10  Rel-10  Rel-10  C07  UE supporting E-UTRA and UL CA  FDD  TDD  TDD  TDD  TDD  TDD  TDD  TD		Churique emission band III				TDD
Spurious emission band UE co-existence for CA (intraband contiguous DL CA and UL CA)   TDD	6.6.3.2		Rel-8	R	UE supporting E-UTRA	FDD
Co-existence for CA (intraband contiguous DL CA and UL CA)   C19   C19   C2   C3   C4   C4   C5   C5   C5   C5   C5   C5						TDD
6.6.3.3 Additional spurious emissions Rel-8 R UE supporting E-UTRA FDD TDD  6.6.3.3 Additional spurious emissions Rel-8 Rel-8 R UE supporting E-UTRA FDD TDD  6.6.3.3 Additional spurious emissions for CA (intra-band contiguous DL CA and UL CA)  6.7 Transmit intermodulation Rel-8 R UE supporting E-UTRA and intra-band contiguous DL CA and UL CA  6.7 Transmit intermodulation for CA (intra-band contiguous DL CA and UL CA)  6.7 Transmit intermodulation for CA (intra-band contiguous DL CA and UL CA)  6.7 Transmit intermodulation for UL-MIMO  6.8 Transmit intermodulation for UL-MIMO  6.8 Time alignment between transmitter branches for UL-MIMO  7.3 Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  7.3 Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  7.3 Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  7.3 Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  7.3 Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  7.3 Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  7.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  7.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  7.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  7.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  7.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  7.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  7.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  7.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  7.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  7.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  7.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  7.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  7.3 Reference sensitivity level for CA (in		co-existence for CA (intra- band contiguous DL CA and	Rel-10	C19	and intra-band contiguous	FDD
emissions  Additional spurious emissions for CA (intra-band contiguous DL CA and UL CA)  FDD  Rel-10  C19  UE supporting E-UTRA and intra-band contiguous DL CA and UL CA  TDD  TDD  6.7  Transmit intermodulation  6.7A  Transmit intermodulation for CA (intra-band contiguous DL CA and UL CA)  FDD  TDD  6.7B  Transmit intermodulation for UL-MIMO  TIME alignment between transmitter branches for UL-MIMO  Rel-10  Rel-10  C07  UE supporting E-UTRA and intra-band contiguous DL CA and UL CA  FDD  TDD  TDD  TDD  TDD  Receiver Characteristics  7.3  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Rel-10  T.3A.1  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Reference sensitivity level for DL CA without UL CA)  Reference sensitivity level for CA (inter-band		,				TDD
Additional spurious emissions for CA (intra-band contiguous DL CA and UL CA)   Rel-10   C19   UE supporting E-UTRA and intra-band contiguous DL CA and UL CA   TDD	6.6.3.3		Rel-8	R	UE supporting E-UTRA	FDD
6.6.3.3 emissions for CA (intra-band contiguous DL CA and UL CA)  6.7 Transmit intermodulation 6.7A Transmit intermodulation for CA (intra-band contiguous DL CA and UL CA)  6.7A Transmit intermodulation for CA (intra-band contiguous DL CA and UL CA)  6.7B Transmit intermodulation for UL-MIMO  6.7B UE supporting E-UTRA and UL_MIMO  6.7B UE supporting E-UTRA and intra-band contiguous DL CA and UL CA  6.7B Transmit intermodulation for UL-MIMO  6.7B UE supporting E-UTRA 6.7B TDD  6.7B UE supporting E-UTRA 7.3A.1 Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  7.3A.2 Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  7.3A.3 Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  7.3A.3 Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  7.3A.3 Reference sensitivity level for CA (intra-band DL CA ut thout UL CA)  7.3A.3 Reference sensitivity level for CA (intra-band DL CA ut thout UL CA)  7.3A.3 Reference sensitivity level for CA (intra-band CDL CA ut thout UL CA)  7.3A.3 Reference sensitivity level for CA (intra-band CDL CA ut thout UL CA)  7.3A.3 Reference sensitivity level for CA (intra-band CDL CA ut thout UL CA)  7.3B Reference sensitivity level for CA (intra-band CDL CA ut thout UL CA)  7.3B Reference sensitivity level for CA (intra-band CDL CA ut thout UL CA)  7.3B Reference sensitivity level for CA (intra-band CDL CA ut thout UL CA)  7.3B Reference sensitivity level for CA (intra-band CDL CA ut thout UL CA)  7.3B Reference sensitivity level f						TDD
FDD  Receiver Characteristics  7.3 Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Rel-10  Rel-10  Rel-10  Rel-10  Rel-10  C19  UE supporting E-UTRA and intra-band contiguous DL CA and UL CA)  FDD  TDD  TDD  TDD  TDD  TDD  TDD  TD		emissions for CA (intra-band contiguous DL CA and UL	Rel-10	C19	and intra-band contiguous	FDD
Transmit intermodulation for CA (intra-band contiguous DL CA and UL CA)  Rel-10  Rel-10  C19  UE supporting E-UTRA and intra-band contiguous DL CA and UL CA  FDD  TDD  Receiver Characteristics  7.3  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Rel-10  Rel-10  Rel-10  C07  UE supporting E-UTRA and UL_MIMO  TDD  TDD  TDD  Receiver Characteristics  7.3  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Rel-10  Rel-10  C19  UE supporting E-UTRA and intra-band contiguous DL CA and UL CA  TDD  TDD  TDD  TDD  TDD  TDD  TDD  T		- ,				TDD
Transmit intermodulation for CA (intra-band contiguous DL CA and UL CA)  Rel-10  Rel-10  C19  UE supporting E-UTRA and intra-band contiguous DL CA and UL CA  FDD  TDD  Rel-10  C07  UE supporting E-UTRA and UL_MIMO  FDD  TDD  Rel-10  C07  UE supporting E-UTRA and UL_MIMO  FDD  TDD  Receiver Characteristics  7.3  Reference sensitivity level  7.3A.1  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Rel-10  Rel-10  C19  UE supporting E-UTRA and UL_MIMO  TDD  TDD  TDD  TDD  TDD  TDD  TDD  T	6.7	Transmit intermodulation	Rel-8	R	UE supporting E-UTRA	
6.7A CA (intra-band contiguous DL CA and UL CA)  FDD  6.7B Transmit intermodulation for UL-MIMO  FDD  Rel-10 C07 UE supporting E-UTRA and UL_MIMO  FDD  TDD  Receiver Characteristics  7.3 Reference sensitivity level FDD  T.3A.1 Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Rel-10 C19 UE supporting E-UTRA and UL_MIMO  FDD  TDD  TDD  Rel-10 C19 UE supporting E-UTRA TDD  TDD  TDD  TDD  TDD  TDD  TDD  T		T 21.4				TDD
6.7B Transmit intermodulation for UL-MIMO  Rel-10 C07 UE supporting E-UTRA and UL_MIMO  TDD  TDD  Receiver Characteristics  7.3 Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Rel-10 C20 UE supporting E-UTRA and intra-band contiguous DL CA without UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Rel-10 C20 UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA  TDD  TDD  7.3A.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  Rel-10 C21 UE supporting E-UTRA and inter-band DL CA but no UL CA  TDD  TDD  7.3B Reference sensitivity level for UL-MIMO  Rel-10 C21 UE supporting E-UTRA and inter-band DL CA but no UL CA  TDD  TDD  TDD  7.4 Maximum input level Rel-8 R UE supporting E-UTRA FDD	6.7A	CA (intra-band contiguous	Rel-10	C19	and intra-band contiguous	
CO7						FDD
Time alignment between transmitter branches for UL-MIMO  Receiver Characteristics  7.3 Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Rel-10 C20 UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA  TDD  TDD  7.3A.3 Reference sensitivity level for CA (intra-band DL CA without UL CA)  Rel-10 C21 UE supporting E-UTRA and intra-band DL CA but no UL CA  TDD  TDD  7.3B Reference sensitivity level for UL-MIMO  Rel-10 C21 UE supporting E-UTRA and inter-band DL CA but no UL CA  TDD  TDD  TDD  7.4 Maximum input level Rel-8 R UE supporting E-UTRA FDD	6.7B		Rel-10	C07		FDD
Receiver Characteristics   Rel-10   Rel-10   Rel-10   Rel-10   Receiver Characteristics						TDD
7.3 Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Rel-10 C20 UE supporting E-UTRA and intra-band contiguous DL CA and UL CA  TDD  Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Rel-10 C20 UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA  TDD  7.3A.3 Reference sensitivity level for CA (inter-band DL CA without UL CA)  Rel-10 C21 UE supporting E-UTRA and inter-band DL CA but no UL CA  TDD  TDD  7.3B Reference sensitivity level for UL-MIMO  Rel-10 C07 UE supporting E-UTRA and inter-band DL CA but no UL CA  TDD  TDD  TDD  7.4 Maximum input level Rel-8 R UE supporting E-UTRA FDD	6.8B	transmitter branches for UL-	Rel-10	C07		
Reference sensitivity level   Rel-8   R						TDD
Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Rel-10  Rel-10  C21  UE supporting E-UTRA and inter-band DL CA but no UL CA  TDD  TDD  TDD  TDD  T.3B  Reference sensitivity level for UL-MIMO  Rel-10  C07  UE supporting E-UTRA and inter-band DL CA but no UL CA  TDD  TDD  TDD  TDD  TDD  TDD  TDD			Dol 9	l D	LIE cupporting E LITEA	EDD
Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)   Rel-10   C19   UE supporting E-UTRA and intra-band contiguous DL CA and UL CA   TDD	7.3	Reference sensitivity level	Kel-o	K	OE Supporting E-OTRA	
7.3A.1 CA (intra-band contiguous DL CA and UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Rel-10 C20 UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA  TDD  TDD  7.3A.3 Reference sensitivity level for CA (inter-band DL CA without UL CA)  Rel-10 C21 UE supporting E-UTRA and inter-band DL CA but no UL CA  TDD  TDD  7.3B Reference sensitivity level for UL-MIMO  Rel-10 C07 UE supporting E-UTRA and UL_MIMO  TDD  TDD  7.4 Maximum input level Rel-8 R UE supporting E-UTRA FDD		Reference sensitivity level for			UE supporting F-LITRA	
7.3A.2 Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)  Rel-10 C20 UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA  TDD  7.3A.3 Reference sensitivity level for CA (inter-band DL CA without UL CA)  TDD  7.3B Reference sensitivity level for UL-MIMO  Rel-10 C21 UE supporting E-UTRA and inter-band DL CA but no UL CA  TDD  TDD  TDD  TDD  TDD  TA  Maximum input level Rel-8 R  UE supporting E-UTRA and UL_MIMO  FDD  TDD  TDD	7.3A.1	CA (intra-band contiguous	Rel-10	C19	and intra-band contiguous	
7.3A.2 CA (intra-band contiguous DL CA without UL CA)  Rel-10 C20 and intra-band contiguous DL CA but no UL CA  TDD  Reference sensitivity level for CA (inter-band DL CA without UL CA)  Rel-10 C21 UE supporting E-UTRA and inter-band DL CA but no UL CA  TDD  7.3B Reference sensitivity level for UL-MIMO  Rel-10 C07 UE supporting E-UTRA and UL_MIMO  TDD  7.4 Maximum input level Rel-8 R UE supporting E-UTRA FDD		D. (			LIE & ELITO	TDD
7.3A.3 Reference sensitivity level for CA (inter-band DL CA without UL CA)  7.3B Reference sensitivity level for UL-MIMO  Rel-10 C21 UE supporting E-UTRA and inter-band DL CA but no UL CA  TDD  TDD  TDD  TDD  TDD  TDD  TDD  T	7.3A.2	CA (intra-band contiguous	Rel-10	C20	and intra-band contiguous	
7.3A.3 CA (inter-band DL CA without UL CA)  Rel-10 C21 and inter-band DL CA but no UL CA  TDD  7.3B Reference sensitivity level for UL-MIMO  Rel-10 C07 UE supporting E-UTRA and UL_MIMO  TDD  TDD  7.4 Maximum input level Rel-8 R UE supporting E-UTRA FDD		Deference consists the level for			LIC ourse orting C. L.I.T.D.A	TDD
7.3B Reference sensitivity level for UL-MIMO Rel-10 C07 UE supporting E-UTRA and UL_MIMO TDD  7.4 Maximum input level Rel-8 R UE supporting E-UTRA FDD	7.3A.3	CA (inter-band DL CA	Rel-10	C21	and inter-band DL CA but	
7.3B UL-MIMO Rel-10 CO7 and UL_MIMO TDD  7.4 Maximum input level Rel-8 R UE supporting E-UTRA FDD		D. (			lue a exerc	TDD
7.4 Maximum input level Rel-8 R UE supporting E-UTRA FDD	7.3B		Rel-10	C07		
			<b>D</b>			
	7.4	ivia xim um input level	Rel-8	K	UE supporting E-UTRA	

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7.4A.1	Maximum input level for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
7.4A.2	Maximum input level for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
	Maying institutional for CA			LIE a companying of ELITDA	TDD
7.4A.3	Ma ximum input level for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
				<u> </u>	TDD
7.4B	Maximum input level for UL- MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD TDD
	Adjacent Channel Selectivity				טטו
7.5	(ACS)	Rel-8	R	UE supporting E-UTRA	FDD TDD
	Adjacent Channel Selectivity				100
7.5A.1	(ACS) for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	,				TDD
7.5A.2	Adjacent Channel Selectivity (ACS) for CA (intra-band contiguous DL CA without UL CA)	Rel-10	FFS	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
	,				TDD
7.5A.3	Adjacent Channel Selectivity (ACS) for CA (inter-band DL CA without UL CA)	Rel-10	FFS	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
					TDD
7.5B	Adjacent Channel Selectivity (ACS)for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
7.6.1	In-band blocking	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
7.6.1A. 1	In-band blocking for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
7.6.1A. 2	In-band blocking for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
					TDD
7.6.1A. 3	In-band blocking for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
	<b>_</b>				TDD
7.6.1B	In-band blocking for UL- MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
7.00	Out of hone deleted	Dalo	<u> </u>	HE ample the F LITEA	TDD
7.6.2	Out of-band blocking	Rel-8	R	UE supporting E-UTRA	FDD TDD
7.6.2A. 1	Out of-band blocking for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	,				TDD
7.6.2A. 2	Out of-band blocking for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
					TDD

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			Condition	Comments	
7.6.2A. 3	Out of-band blocking for CA (inter-band DL CA without UL CA)	Rel-10	FFS	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
					TDD
7.6.2B	Out-of-band blocking for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
7.6.3	Narrow band blocking	Rel-8	R	UE supporting E-UTRA	FDD TDD
7.6.3A. 1	Narrow band blocking for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
					TDD
7.6.3A. 2	Narrow band blocking for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
					TDD
7.6.3A. 3	Narrow band blocking for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
					TDD
7.6.3B	Narrow band blocking for UL- MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
		5 1 0			TDD
7.7	Spurious response	Rel-8	R	UE supporting E-UTRA	FDD
	Spurious response for CA			UE supporting E-UTRA	TDD
7.7A.1	(intra-band contiguous DL CA and UL CA)	Rel-10	C19	and intra-band contiguous DL CA and UL CA	FDD
					TDD
7.7A.2	Spurious response for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
					TDD
7.7A.3	Spurious response for CA (inter-band DL CA without UL CA)	Rel-10	FFS	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
					TDD
7.7B	Spurious response for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
704	N/i da la card lata una adulationa	Dalo	 	LIE a vin n antin a E LIED A	TDD
7.8.1	Wide band Intermodulation	Rel-8	R	UE supporting E-UTRA	FDD TDD
7.8.1A. 1	Wide band Intermodulation for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E-UTRA and intra-band contiguous DL CA and UL CA	FDD
	,				TDD
7.8.1A. 2	Wide band Intermodulation for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E-UTRA and intra-band contiguous DL CA but no UL CA	FDD
	·				TDD
7.8.1A. 3	Wide band Intermodulation for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E-UTRA and inter-band DL CA but no UL CA	FDD
					TDD
7.8.1B	Wide band intermodulation for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	FDD
					TDD
7.9	Spurious emissions	Rel-8	R	UE supporting E-UTRA	FDD TDD
Perform	ance Requirement		<u> </u>		1.55
8.2.1.1.	FDD PDSCH Single Antenna			UE supporting E-UTRA	1
1	Port Performance	Rel-8	C01	FDD	

Clause	Title	Release		Applicability	Additional Information
	1		Condition	Comments	1
8.2.1.1. 1_1	FDD PDSCH Single Antenna Port Performance (Release 9 and forward)	Rel-9	C31	UE supporting E-UTRA FDD (UE categories 1, 2)	
8.2.1.1. 1_A.1	FDD PDSCH Single Antenna Port Performance for CA (intra-band contiguous DL CA)	Rel-10	C22	UE supporting E-UTRA FDD and intra-band contiguous DL CA	
8.2.1.1. 1_A.2	FDD PDSCH Single Antenna Port Performance for CA (inter-band DL CA)	Rel-10	C23	UE supporting E-UTRA FDD and inter-band DL CA	
8.2.1.1. 2	FDD PDSCH Single Antenna Port Performance with 1 PRB in presence of MBSFN	Rel-8	C01	UE supporting E-UTRA FDD	
8.2.1.2. 1	FDD PDSCH Transmit Diversity 2x2	Rel-8	C01	UE supporting E-UTRA FDD	
8.2.1.2. 1_1	FDD PDSCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C15	UE supporting E-UTRA FDD (UE category 1)	
8.2.1.2. 2	FDD PDSCH Transmit Diversity 4x2	Rel-8	C09	UE supporting E-UTRA FDD and operating bands supporting 1,4 MHz Bandwidth	
8.2.1.2. 2_1	FDD PDSCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.2.1.3. 1	FDD PDSCH Open Loop Spatial Multiplexing 2x2	Rel-8	C01	UE supporting E-UTRA FDD	
8.2.1.3. 1_A.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (intra-band contiguous DL CA)	Rel-10	C22	UE supporting E-UTRA FDD and intra-band contiguous DL CA	
8.2.1.3. 1_A.2	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (inter-band DL CA)	Rel-10	C23	UE supporting E-UTRA FDD and inter-band DL CA	
8.2.1.3. 2	FDD PDSCH Open Loop Spatial Multiplexing 4x2	Rel-8	C01	UE supporting E-UTRA FDD	
8.2.1.3. 3_C.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (non-MBSFN ABS)	Rel-10	C29	UEs supporting E-UTRA FDD and Feature Group Indictor 115	
8.2.1.3. 3_C.2	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (MBSFN ABS)	Rel-10	C29	UEs supporting E-UTRA FDD and Feature Group Indictor 115	
8.2.1.4. 1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2	Rel-8 only	C01	UE supporting E-UTRA FDD	
8.2.1.4. 1_1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.2.1.4. 2	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	
8.2.1.4. 2_1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.2.1.4. 2_A.1	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (intra-band contiguous DL CA)	Rel-10	C22	UE supporting E-UTRA FDD and intra-band contiguous DL CA	

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Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
8.2.1.4. 2_A.2	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (inter-band DL CA)	Rel-10	C23	UE supporting E-UTRA FDD and inter-band DL CA	
8.2.2.1	Void				
8.2.2.1. 1	TDD PDSCH Single Antenna Port Performance	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.1. 1_1	TDD PDSCH Single Antenna Port Performance (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.2.2.1. 1_A.1	TDD PDSCH Single Antenna Port Performance for CA (intra-band contiguous DL CA)	Rel-10	C24	UE supporting E-UTRA TDD and intra-band contiguous DL CA	
8.2.2.1. 2	TDD PDSCH Single Antenna Port Performance with 1PRB in the presence of MBSFN	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.2	Void				
8.2.2.2. 1	TDD PDSCH Transmit Diversity 2x2	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.2. 1_1	TDD PDSCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.2.2.2. 2	TDD PDSCH Transmit Diversity 4x2	Rel-8	C10	UE supporting E-UTRA TDD and operating bands supporting 1,4 MHz Bandwidth	
8.2.2.2. 2_1	TDD PDSCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.2.2.3	Void				
8.2.2.3. 1	TDD PDSCH Open Loop Spatial Multiplexing 2x2	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.3. 1_A.1	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (intra-band contiguous DL CA)	Rel-10	C24	UE supporting E-UTRA TDD and intra-band contiguous DL CA	
8.2.2.3. 2	TDD PDSCH Open Loop Spatial Multiplexing 4x2	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.3. 3_C.1	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (non-MBSFN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indictor 115	
8.2.2.3. 3_C.2	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (MBSFN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indictor 115	
8.2.2.4	Void		<u> </u>		
8.2.2.4. 1	TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2	Rel-8 only	C02	UE supporting E-UTRA TDD	
8.2.2.4. 1_1	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.2.2.4. 2	TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	
8.2.2.4. 2_1	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.3.1	Void				

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
8.3.1.1. 1_D	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 without a simultaneous transmission for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	
8.3.1.1. 2_D	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with a simultaneous transmission for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	
8.3.1.1. 3	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM9 Interference Model - Enhanced Performance Requirement Type A	Rel-11	C40	UE supporting E-UTRA FDD and Feature Group Indictor 103 and supporting the optional enhanced performance requirements type A for LTE	
8.3.1.2. 1_D	FDD PDSCH Dual-layer Spatial Multiplexing for eDL- MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	
8.3.2.1. 1	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 5 (Release 8 and forward)	Rel-8	C02	UE supporting E-UTRA TDD	
8.3.2.1. 1_1	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 5 (Release 9 and forward)	Rel-9	C16	UE supporting E-UTRA TDD (UE category 1)	
8.3.2.1. 2	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 7 or 8 without a simultaneous transmission	Rel-9 only	C34	UE supporting E-UTRA TDD and supporting enhanced dual layer TDD.	
		Rel-10	C02	UE supporting E-UTRA TDD.	
8.3.2.1. 2_D	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 without a simultaneous transmission for eDL-MIMO	Rel-10	C26	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 104	
8.3.2.1. 3	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 7 or 8 with a simultaneous transmission	Rel-9 only	C34	UE supporting E-UTRA TDD and supporting enhanced dual layer TDD.	
		Rel-10	C02	UE supporting E-UTRA TDD.	
8.3.2.1. 3_D	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with a simultaneous transmission for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 103	
8.3.2.1. 4	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM9 Interference Model - Enhanced Performance Requirement Type A	Rel-11	C41	UE supporting E-UTRA TDD and Feature Group Indictor 103 and supporting the optional enhanced performance requirements type A for LTE	
8.3.2.2. 1	TDD PDSCH Dual-layer Spatial Multiplexing	Rel-9 only	C34	UE supporting E-UTRA TDD and supporting enhanced dual layer TDD. UE supporting E-UTRA	
		Rel-10	C02	TDD.	
8.3.2.2.	TDD PDSCH Dual-layer	Rel-10	C25	UE supporting E-UTRA	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	1
1_D	Spatial Multiplexing for eDL-MIMO			TDD and eDL-MIMO and Feature Group Indicator 103	
8.4.1.1	FDD PCFICH/PDCCH Single-antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	
8.4.1.2. 1	FDD PCFICH/PDCCH Transmit Diversity 2x2	Rel-8 only	C09	UE supporting E-UTRA FDD and operating bands supporting 1,4 MHz Bandwidth	
8.4.1.2. 1_1	FDD PCFICH/PDCCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.4.1.2. 2	FDD PCFICH/PDCCH Transmit Diversity 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	
8.4.1.2. 2_1	FDD PCFICH/PDCCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.4.2.1	TDD PCFICH/PDCCH Single-antenna Port Performance	Rel-8	C02	UE supporting E-UTRA TDD	
8.4.2.2	Void				
8.4.2.2. 1	TDD PCFICH/PDCCH Transmit Diversity 2x2	Rel-8 only	C10	UE supporting E-UTRA TDD and operating bands supporting 1,4 MHz Bandwidth	
8.4.2.2. 1_1	TDD PCFICH/PDCCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA	
8.4.2.2. 2	TDD PCFICH/PDCCH Transmit Diversity 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	
8.4.2.2. 2_1	TDD PCFICH/PDCCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.5.1.1	FDD PHICH Single-antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	
8.5.1.2 8.5.1.2. 1	FDD PHICH Transmit Diversity 2x2	Rel-8 only	C09	UE supporting E-UTRA FDD and operating bands supporting 1,4 MHz Bandwidth	
8.5.1.2. 1_1	FDD PHICH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.5.1.2. 2	FDD PHICH Transmit Diversity 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	
8.5.1.2. 2_1	FDD PHICH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.5.2.1	TDD PHICH Single-antenna Port Performance	Rel-8	C02	UE supporting E-UTRA TDD	
8.5.2.2 8.5.2.2. 1	TDD PHICH Transmit Diversity 2x2	Rel-8 only	C10	UE supporting E-UTRA TDD and operating bands supporting 1,4 MHz Bandwidth	
8.5.2.2. 1_1	TDD PHICH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.5.2.2. 2	TDD PHICH Transmit Diversity 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
8.5.2.2. 2_1	TDD PHICH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.5.2.2. 3_C.1	TDD PHICH Transmit Diversity 2x2 for eICIC (non-MBSFN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indictor 115	
8.7.1.1	FDD sustained data rate performance	Rel-9	C01	UE supporting E-UTRA FDD	It is not necessary for CA UEs to be tested in this test if 8.7.1.1_A.1 or 8.7.1.1_A.2 is executed.
8.7.1.1_ A.1	FDD Sustained data rate performance for CA (intra-band contiguous DL CA)	Rel-10	C22	UE supporting E-UTRA FDD and intra-band contiguous DL CA	
8.7.1.1_ A.2	FDD Sustained data rate performance for CA (inter-band DL CA)	Rel-10	C23	UE supporting E-UTRA FDD and inter-band DL CA	
8.7.2.1	TDD sustained data rate performance	Rel-9	C02	UE supporting E-UTRA TDD	It is not necessary for CA UEs to be tested in this test if 8.7.2.1_A.1 is executed.
8.7.2.1 <sub>_</sub>	TDD sustained data rate performance (Rel-10 and forward)	Rel-10	C02	UE supporting E-UTRA TDD (UE categories 6, 7)	necessary for CA UEs to be tested in this test if 8.7.2.1_A.1 is executed.
8.7.2.1_ A.1	TDD sustained data rate performance for CA (intraband contiguous DL CA)	Rel-10	C24	UE supporting E-UTRA TDD and intra-band contiguous DL CA	
Reportin	g of Channel State Information	ו			ı
9.2.1.1	FDD CQI Reporting under AWGN conditions - PUCCH 1-0	Rel-8	C01	UE supporting E-UTRA FDD	
9.2.1.2	TDD CQI Reporting under AWGN conditions - PUCCH 1-0	Rel-8	C02	UE supporting E-UTRA TDD	
9.2.1.4_ C.1	TDD CQI Reporting under AWGN conditions - PUCCH 1-0 for eICIC (non-MBSFN ABS)	Rel-10	C30	UEs supporting E-UTRA TDD and Feature Group Indictor 115	
9.2.2.1	FDD CQI Reporting under AWGN conditions - PUCCH 1-1	Rel-8	C01	UE supporting E-UTRA FDD	
9.2.2.2	TDD CQI Reporting under AWGN conditions - PUCCH 1-1	Rel-8	C02	UE supporting E-UTRA	
9.2.3.1_ D	FDD CQI Reporting under AWGN conditions - PUCCH 1-1 for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	
9.2.3.2_ D	TDD CQI Reporting under AWGN conditions - PUCCH 1-1 for eDL-MIMO	Rel-10	C26	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 104	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
9.3.1.1. 1	FDD CQI Reporting under fading conditions - PUSCH 3-0	Rel-8	C01	UE supporting E-UTRA FDD	
9.3.1.1. 2	TDD CQI Reporting under fading conditions - PUSCH 3-0	Rel-8	C02	UE supporting E-UTRA TDD	
9.3.1.2. 1_D	FDD CQI Reporting under fading conditions - PUSCH 3-1 for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	
9.3.1.2. 2_D	TDD CQI Reporting under fading conditions - PUSCH 3-1 for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 103	
9.3.2.1. 1	FDD CQI Reporting under fading conditions - PUCCH 1-0	Rel-8	C13	UE supporting E-UTRA FDD (UE categories 2-8)	
9.3.2.1. 1_1	FDD CQI Reporting under fading conditions - PUCCH 1-0 (Release 9 and forward)	Rel-9	C15	UE supporting E-UTRA FDD (UE category 1)	
9.3.2.1. 2	TDD CQI Reporting under fading conditions - PUCCH 1-0	Rel-8	C14	UE supporting E-UTRA TDD (UE categories 2-8)	
9.3.2.1. 2_1	TDD CQI Reporting under fading conditions - PUCCH 1-0 (Release 9 and forward)	Rel-9	C16	UE supporting E-UTRA TDD (UE category 1)	
9.3.2.2. 1_D	FDD CQI Reporting under fading conditions - PUCCH 1-1 for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	
9.3.2.2. 2_D	TDD CQI Reporting under fading conditions - PUCCH 1-1 for eDL-MIMO	Rel-10	C28	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicators 104 and 110	
9.3.3.1. 1	FDD CQI Reporting under fading conditions and frequency-selective interference - PUSCH 3-0	Rel-8	C01	UE supporting E-UTRA FDD	
9.3.3.1. 2	TDD CQI Reporting under fading conditions and frequency-selective interference - PUSCH 3-0	Rel-8	C02	UE supporting E-UTRA	
9.3.4.1. 1	FDD CQI Reporting under fading conditions - PUSCH 2-0	Rel-9	C35	UE supporting E-UTRA FDD and Feature Group Indicator 1	
9.3.4.1. 2	TDD CQI Reporting under fading conditions - PUSCH 2-0	Rel-9	C37	UE supporting E-UTRA TDD and Feature Group Indicator 1	
9.3.4.2. 1	FDD CQI Reporting under fading conditions - PUCCH 2-0	Rel-9	C36	UE supporting E-UTRA FDD and Feature Group Indicator 2	
9.3.4.2. 2	TDD CQI Reporting under fading conditions - PUCCH 2-0	Rel-9	C38	UE supporting E-UTRA TDD and Feature Group Indicator 2	
9.4.1.1.	FDD PMI Reporting - PUSCH 3-1 (Single PMI)	Rel-8	C01	UE supporting E-UTRA FDD	
9.4.1.1. 2	TDD PMI Reporting - PUSCH 3-1 (Single PMI)	Rel-8	C02	UE supporting E-UTRA TDD	
9.4.1.2.1	FDD PMI Reporting - PUCCH 2-1 (Single PMI)	Rel-9	C36	UE supporting E-UTRA FDD and Feature Group Indicator 2	
9.4.1.2.2	TDD PMI Reporting - PUCCH 2-1 (Single PMI)	Rel-9	C38	UE supporting E-UTRA TDD and Feature Group	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
				Indicator 2	
9.4.1.3.1 _D	FDD PMI Reporting - PUSCH 3-1 (Single PMI) for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	
9.4.1.3. 2_D	TDD PMI Reporting - PUSCH 3-1 (Single PMI) for eDL-MIMO	Rel-10	C26	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 104	
9.4.2.1. 1	FDD PMI Reporting - PUSCH 1-2 (Multiple PMI)	Rel-8 only	C11, C17	UE supporting E-UTRA FDD and operating bands supporting 20 MHz Bandwidth	
9.4.2.1. 1_1	FDD PMI Reporting - PUSCH 1-2 (Multiple PMI) (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
9.4.2.1. 2	TDD PMI Reporting - PUSCH 1-2 (Multiple PMI)	Rel-8 only	C12, C18	UE supporting E-UTRA TDD and operating bands supporting 20 MHz Bandwidth	
9.4.2.1. 2_1	TDD PMI Reporting - PUSCH 1-2 (Multiple PMI) (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
9.4.2.2. 1	FDD PMI Reporting - PUSCH 2-2 (Multiple PMI)	Rel-9	C32	UE supporting E-UTRA FDD and Feature Group Indicators 1	
9.4.2.2. 2	TDD PMI Reporting - PUSCH 2-2 (Multiple PMI)	Rel-9	C33	UE supporting E-UTRA TDD and Feature Group Indicators 1	
9.4.2.3. 1_D	FDD PMI Reporting - PUSCH 1-2 (Multiple PMI) for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicator 103	
9.4.2.3. 2_D	TDD PMI Reporting - PUSCH 1-2 (Multiple PMI) for eDL-MIMO	Rel-10	C26	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 104	
9.5.1.1	FDD RI Reporting - PUCCH 1-1	Rel-8 and Rel-9 only	C13	UE supporting E-UTRA FDD (UE categories 2-8)	
9.5.1.1_ 1	FDD RI Reporting - PUCCH 1-1 (Release 10)	Rel-10 only	C13	UE supporting E-UTRA FDD (UE categories 2-8)	
9.5.1.1_ 2	FDD RI Reporting- PUCCH 1-1 (Release 11)	Rel-11	C13	UE supporting E-UTRA FDD (UE categories 2-8)	
9.5.1.2	TDD RI Reporting - PUSCH 3-1	Rel-8 and Rel-9 only	C14	UE supporting E-UTRA TDD (UE categories 2-8)	
9.5.1.2_ 1	TDD RI Reporting - PUSCH 3-1 (Release 10)	Rel-10 only	C14	UE supporting E-UTRA TDD (UE categories 2-8)	
9.5.1.2_ 2	TDD RI Reporting- PUSCH 3-1 (Release 11)	Rel-11	C14	UE supporting E-UTRA TDD (UE categories 2-8)	
9.5.2.1_ D	FDD RI Reporting - PUCCH 1-1 for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA FDD and eDL-MIMO and Feature Group Indicators 103	
9.5.2.2_ D	TDD RI Reporting - PUCCH 1-1 for eDL-MIMO	Rel-10	C25	UE supporting E-UTRA TDD and eDL-MIMO and Feature Group Indicator 103	
9.5.3.1_ C.1	FDD RI Reporting – PUCCH 1-0 for eICIC (non-MBSFN	Rel-10	C29	UE supporting E-UTRA FDD and Feature Group	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
	ABS)			Indicator 115	
9.5.3.2_ C.1	TDD RI Reporting – PUCCH 1-0 for eICIC (non-MBSFN ABS)	Rel-10	C30	UE supporting E-UTRA TDD and Feature Group Indicator 115	
9.6.1.1_ A.2	FDD CQI Reporting under AWGN conditions – PUCCH 1-0 for CA (inter band DL CA)	Rel-10	C23	UE supporting E-UTRA FDD and inter-band DL CA	
9.6.1.2_ A.1	TDD CQI Reporting under AWGN conditions – PUCCH 1-0 for CA (intra band contiguous DL CA)	Rel-10	C24	UE supporting E-UTRA TDD and intra-band contiguous DL CA	
MBMS Pe	erformance Testing				
10.1	FDD MBMS performance (Fixed Reference Channel)	Rel-9		UE supporting E-UTRA FDD and MBMS	
10.2	TDD MBMS performance (Fixed Reference Channel)	Rel-9		UE supporting E-UTRATDD and MBMS	

Table 4.1-1a: Applicability of RF conformance test cases Conditions

C01 IF A.4.1-1/1 THEN R ELSE N/A C02 IF A.4.1-1/2 THEN R ELSE N/A C03 IF (A.4.1-1/1 AND A.4.2-1/1) THEN R ELSE N/A C04 IF (A.4.1-1/2 AND A.4.2-1/1) THEN R ELSE N/A C05 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C06 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A C07 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/2) THEN R ELSE N/A C08 IF (A.4.1-1/1 OR A.4.1-1/2) THEN R ELSE N/A C09 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A C11 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A C12 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A C13 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A C14 IF (A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C15 IF (A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C03 IF (A.4.1-1/1 AND A.4.2-1/1) THEN R ELSE N/A  C04 IF (A.4.1-1/2 AND A.4.2-1/1) THEN R ELSE N/A  C05 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A  C06 IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/2) THEN R ELSE N/A  C07 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/3) THEN R ELSE N/A  C08 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C09 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A  C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A  C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C13 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C04 IF (A.4.1-1/2 AND A.4.2-1/1) THEN R ELSE N/A  C05 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A  C06 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C07 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/3) THEN R ELSE N/A  C08 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C09 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A  C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A  C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C13 IF ((A.4.1-1/2) AND A.4.3-3a/6) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C05 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A  C06 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C07 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/3) THEN R ELSE N/A  C08 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C09 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A  C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A  C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C13 IF ((A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C14 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C06 IF (A4.1-1/1 OR A.4.1-1/2 ÁND A4.2-1/2) THEN R ELSE N/A  C07 IF ((A4.1-1/1 OR A.4.1-1/2) AND A4.2-1/3) THEN R ELSE N/A  C08 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C09 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A  C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A  C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C13 IF ((A.4.1-1/2) AND A.4.3-3a/6) THEN R ELSE N/A  C14 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C07 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/3) THEN R ELSE N/A  C08 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C09 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A  C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A  C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C08 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A  C09 IF (A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A  C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A  C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C09 IF (A4.1-1/1 AND A4.3-3a/1) THEN R ELSE N/A C10 IF (A4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C10 IF (A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C11 IF (A.4.1-1/1 AND A.4.3-3a/6) THEN R ELSE N/A  C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A  C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C12 IF (A.4.1-1/2 AND A.4.3-3a/6) THEN R ELSE N/A C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C13 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A  C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
4/8)) THEN R ELSE N/A C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C14 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
4/8)) THEN R ELSE N/A
C15 IF (A.4.1-1/1 AND A.4.3-4/1) THEN R FLISE N/A
C16 IF (A.4.1-1/2 AND A.4.3-4/1) THEN R ELSE N/A
C17 IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5) THEN R ELSE N/A
C18 IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5) THEN R ELSE N/A
C19 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.6.1-1/2 AND A.4.6.1-2/2) THEN R ELSE N/A
C20 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.6.1-1/2 AND NOT (A.4.6.1-2/1 OR A.4.6.1-2/2)) THEN R ELSE N/A
C21 IF (A.4.1-1/1 OR A.4.1-1/2 AND A.4.6.3-1/1) THEN R ELSE N/A
C22 IF (A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A
C23 IF (A.4.1-1/1 AND A.4.6.3-1/1) THEN R ELSE N/A
C24 IF (A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A
C25 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/4 AND A.4.4-3/103) THEN R ELSE N/A
C26 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/4 AND A.4.4-3/104) THEN R ELSE N/A
C27 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/4 AND A.4.4-3/104 AND A.4.4-3/109) THEN R ELSE N/A
C28 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/4 AND A.4.4-3/104 AND A.4.4-3/110) THEN R ELSE N/A
C29 IF (A.4.1-1/1 AND A.4.4-3/115) THEN R ELSE N/A
C30 IF (A.4.1-1/2 AND A.4.4-3/115) THEN R ELSE N/A
C31 IF (A4.1-1/1 AND (A.4.3-4/1 OR A4.3-4/2)) THEN R ELSE N/A
C32 IF (A.4.1-1/1 AND A.4.4-1/1) THEN R ELSE N/A
C33 IF (A4.1-1/2 AND A4.4-1/1) THEN R ELSE N/A
C34 IF (A.4.1-1/2 AND A.4.2-1/5) THEN R ELSE N/A
C35 IF A.4.1-1/1 AND A.4.4-1/1 THEN R ELSE N/A
C36 IF A.4.1-1/1 AND A.4.4-1/2 THEN R ELSE N/A
C37 IF A.4.1-1/2 AND A.4.4-1/1 THEN R ELSE N/A
C38 IF A.4.1-1/2 AND A.4.4-1/2 THEN R ELSE N/A
C39 IF((A4.1-1/1 OR A4.1-1/2) AND A4.3-3b/1) THEN R ELSE N/A
C40 IF (A.4.1-1/1 AND A.4.4-3/103 AND A.4.3-7/1) THEN R ELSE N/A
C40 IF (A.4.1-1/1 AND A.4.4-3/103 AND A.4.3-7/1) THEN R ELSE N/A  C41 IF (A.4.1-1/2 AND A.4.4-3/103 AND A.4.3-7/1) THEN R ELSE N/A
041 IF (M.4.1-1/2 AND M.4.4-3/103 AND M.4.3-1/1) IFEN K ELSE N/A

## 4.2 RRM conformance test cases

Table 4.2-1: Applicability of RRM conformance test cases, ref. TS 36.521-3 [2]

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	Release on other RAT
	RRC_IDLE State Mobility				
4.2.1	E-UTRAN FDD - FDD cell re-	Rel-8	C01	UE supporting E-UTRA FDD	
100	selection intra frequency case	5.10	000		
4.2.2	E-UTRAN TDD - TDD cell re-	Rel-8	C02	UE supporting E-UTRATDD	
400	selection intra frequency case E-UTRAN FDD - FDD cell re-	Dalo	004	LIE average efficient E LITDA EDD	
4.2.3	E-UTRAN FDD - FDD cell re-   selection inter frequency case	Rel-8	C01	UE supporting E-UTRAFDD	
4.2.4	E-UTRAN FDD - TDD cell re-	Rel-9	C03	UE supporting E-UTRA FDD	
4.2.4	selection inter frequency case	101-3	003	and E-UTRATDD	
4.2.5	E-UTRAN TDD - FDD cell re-	Rel-9	C03	UE supporting E-UTRA FDD	
7.2.0	selection inter frequency case	I Kei-5	003	and E-UTRATDD	
4.2.6	E-UTRAN TDD - TDD cell re-	Rel-8	C02	UE supporting E-UTRATDD	
	selection inter frequency case	110.0	002	= = = = = = = = = = = = = = = = = = =	
4.2.7	E-UTRAN FDD – FDD Inter	Rel-9	C01	UE supporting E-UTRA FDD	
	frequency case in the existence of				
	non-allowed CSG cell				
4.2.8	E-UTRAN TDD – TDD Inter	Rel-9	C02	UE supporting E-UTRATDD	
	frequency case in the existence of				
	non-allowed CSG cell				
4.3.1.1	E-UTRA FDD - UTR AN FDD cell	Rel-8	C04	UE supporting E-UTRA FDD	
1010	re-selection	5.10	004	and UTRA FDD	
4.3.1.2	E-UTRA FDD - UTRAN FDD cell	Rel-8	C04	UE supporting E-UTRAFDD	
	re-selection: UTRA FDD is of			and UTRA FDD	
4.3.1.3	lower priority E-UTRAN FDD - UTRAN FDD cell	Rel-8	C04	UE supporting E-UTRA FDD	
4.3.1.3	re-selection in fading propagation	Rei-o	C04	and UTRA FDD	
	conditions: UTRA FDD is of lower			and officer bb	
	priority				
4.3.2	E-UTRAN FDD - UTRAN TDD cell	Rel-8	C06	UE supporting E-UTRAFDD	Rel-9 UTRA
	re-selection			and UTRATDD	TDD
4.3.3	E-UTRAN TDD - UTRAN FDD cell	Rel-8	C07	UE supporting E-UTRATDD	
	re-selection			and UTRA FDD	
4.3.4.1	E-UTRA TDD - UTR AN TDD cell	Rel-8	C05	UE supporting E-UTRATDD	Rel-9 UTRA
	re-selection			and UTRATDD	TDD
4.3.4.2	E-UTRAN TDD - UTRAN TDD cell	Rel-8	C05	UE supporting E-UTRATDD	Rel-9 UTRA
	re-selection: UTRA is of lower			and UTRATDD	TDD
4040	priority	Dalo	005	LIE average estimate E LITDA TDD	D-LOUTDA
4.3.4.3	EUTRA TDD-UTRA TDD cell	Rel-8	C05	UE supporting E-UTRATDD	Rel-9 UTRA
	reselection in fading propagation conditions: UTRATDD is of lower			and UTRA TDD	טטו
	priority				
4.4.1	E-UTRAN FDD - GSM cell re-	Rel-8	C08	UE supporting E-UTRA FDD	
	selection	11010		and GSM	
4.4.2	E-UTRAN TDD - GSM cell re-	Rel-8	C09	UE supporting E-UTRATDD	
	selection	1.5. 0		and GSM	
4.5.1.1	E-UTRAN FDD - HRPD Cell re-	Rel-8	C10	UE supporting E-UTRAFDD	
	selection: HRPD is of lower			and cdma2000 HRPD	
	priority				
4.5.2.1	E-UTRAN TDD - HRPD Cell	Rel-9	C34	UE supporting E-UTRATDD	
	Reselection: HRPD is of Lower		1	and cdma2000 HRPD	
	Priority				
4.6.1.1	E-UTRAN FDD - cdma2000	Rel-8	C11	UE supporting E-UTRA FDD	
	1xRTT Cell re-selection:			and cdma2000 1xRTT	
100:	cdma2000 1x is of lower priority	D 1 2	005		
4.6.2.1	E-UTRAN TDD-cdma2000 1X Cell	Rel-9	C35	UE supporting E-UTRATDD	
	Reselection: cdma2000 1X is of		1	and cdma2000 1xRTT	
	Lower Priority	I		1	1

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	Release on other RAT
5.1.1	E-UTRAN FDD - FDD Handover intra frequency case	Rel-8	C01	UE supporting E-UTRA FDD	
5.1.2	E-UTRAN TDD - TDD Handover intra frequency case	Rel-8	C02	UE supporting E-UTRATDD	
5.1.3	E-UTRAN FDD - FDD Handover inter frequency case	Rel-8	C01d	UE supporting E-UTRAFDD and Feature Group Indicators 5, 13 and 25	
5.1.4	E-UTRAN TDD - TDD Handover inter frequency case	Rel-8	C02d	UE supporting E-UTRATDD and Feature Group Indicators 5, 13 and 25	
5.1.5	E-UTRAN FDD - FDD inter frequency handover: unknown target cell	Rel-8	C01a	UE supporting E-UTRA FDD and Feature Group Indicators 13 and 25	
5.1.6	E-UTRAN TDD-TDD inter frequency handover: unknown target cell	Rel-8	C02a	UE supporting E-UTRATDD and Feature Group Indicators 13 and 25	
5.1.7	E-UTRAN FDD – TDD handover inter frequency case	Rel-9	C21	UE supporting E-UTRAFDD and E-UTRATDD and Feature Group Indicators 5, 25 and 30	
5.1.8	E-UTRAN TDD – FDD handover inter frequency case	Rel-9	C21	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 5, 25 and 30	
5.2.1	E-UTRAN FDD - UTRAN FDD handover	Rel-8	C04a	UE supporting E-UTRAFDD and UTRAFDD and Feature Group Indicators 8 and 22	
5.2.2	E-UTRAN TDD - UTRAN FDD handover	Rel-8	C07a	UE supporting E-UTRATDD and UTRAFDD and Feature Group Indicators 8 and 22	
5.2.3	E-UTRAN FDD - GSM handover	Rel-8	C08e	UE supporting E-UTRAFDD and GSM and Feature Group Indicators 9, 15 and 23	
5.2.4	E-UTRAN TDD - UTRAN TDD handover	Rel-8	C05a	UE supporting E-UTRATDD and UTRATDD and Feature Group Indicators 8 and 22	Rel-9 UTRA TDD
5.2.5	E-UTRAN FDD - UTRAN TDD handover	Rel-8	C06a	UE supporting E-UTRAFDD and UTRATDD and Feature Group Indicators 8 and 22	Rel-9 UTRA TDD
5.2.6	E-UTRATDD - GSM handover	Rel-8	C09f	UE supporting E-UTRA FDD and GSM and Feature Group Indicators 9, 15 and 23	
5.2.7	E-UTRAN FDD - UTRAN FDD handover: unknown target cell	Rel-8	C04a	UE supporting E-UTRAFDD and UTRAFDD and Feature Group Indicators 8 and 22	
5.2.8	E-UTRAN FDD - GSM handover: unknown target cell	Rel-8	C08a	UE supporting E-UTRA FDD and GSM and Feature Group Indicators 9 and 23	
5.2.9	E-UTRAN TDD - GSM handover: unknown target cell	Rel-8	C09b	UE supporting E-UTRATDD and GSM and Feature Group Indicators 9 and 23	
5.2.10	E-UTRAN TDD - UTRAN TDD handover: unknown target cell	Rel-8	C05a	UE supporting E-UTRAFDD and UTRATDD and Feature Group Indicators 8 and 22	Rel-9 UTRA TDD
5.3.1	E-UTRAN FDD - HRPD Handover	Rel-8	C10a	UE supporting E-UTRA FDD and cdma2000 HRPD and Feature Group Indicators 12 and 26	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	Release on other RAT
5.3.2	E-UTRAN FDD - cdma2000 1xRTT handover	Rel-8	C11a	UE supporting E-UTRA FDD and cdma2000 1xRTT and Feature Group Indicators 11 and 24	
5.3.3	E-UTRAN FDD - HRPD handover: unknown target cell	Rel-8	C10a	UE supporting E-UTRA FDD and cdma2000 HRPD and Feature Group Indicators 12 and 26	
5.3.4	E-UTRAN FDD - cdma2000 1xRTT handover: unknown target cell	Rel-8	C11a	UE supporting E-UTRAFDD and cdma2000 1xRTT and Feature Group Indicators 11 and 24	
5.3.5	E-UTRAN TDD-HRPD Handover	Rel-9	C10a	UE supporting E-UTRA FDD and HRPD and Feature Group Indicators 12 and 26.	
5.3.6	E-UTRAN TDD-cdma2000 1X Handover	Rel-9	C11a	UE supporting E-UTRA FDD and cdma2000 1xRTT and Feature Group Indicators 11 and 24.	
RRC Con	nection Mobility Control	1			L
6.1.1	E-UTRAN FDD Intra-frequency RRC Re-establishment	Rel-8	C01	UE supporting E-UTRA FDD	
6.1.2	E-UTRAN FDD Inter-frequency RRC Re-establishment	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25	
6.1.3	E-UTRAN TDD Intra-frequency RRC Re-establishment	Rel-8	C02	UE supporting E-UTRATDD	
6.1.4	E-UTRAN TDD Inter-frequency RRC Re-establishment	Rel-8	C02b	UE supporting E-UTRATDD and Feature Group Indicator 25	
6.2.1	E-UTRAN FDD - Contention Based Random Access Test	Rel-8	C01	UE supporting E-UTRA FDD	
6.2.2	E-UTRAN FDD - Non-Contention Based Random Access Test	Rel-8	C01	UE supporting E-UTRAFDD	
6.2.3	E-UTRAN TDD - Contention Based Random Access Test	Rel-8	C02	UE supporting E-UTRATDD	
6.2.4	E-UTRAN TDD - Non-Contention Based Random Access Test	Rel-8	C02	UE supporting E-UTRATDD	
6.3.1	Redirection from E-UTRAN FDD to UTRAN FDD	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD	
6.3.2	Redirection from E-UTRAN TDD to UTRAN FDD	Rel-9	C07	UE supporting E-UTRATDD and UTRA FDD	
6.3.3	Redirection from E-UTRAN FDD to GERAN when System Information is provided	Rel-9	C27	UE supporting E-UTRA FDD and GERAN	
6.3.4	Redirection from E-UTRAN TDD to GERAN when System Information is provided	Rel-9	C28	UE supporting E-UTRATDD and GERAN	
6.3.5	E-UTRATDD RRC connection release redirection to UTRATDD	Rel-9	C26	UE supporting E-UTRATDD and UTRATDD	
6.3.6	E-UTRA FDD RRC connection release redirection to UTRA TDD	Rel-9	C25	UE supporting E-UTRA FDD and UTRA TDD	
6.3.7	E-UTRATDD RRC connection release redirection to UTRATDD without SI provided	Rel-9	C26	UE supporting E-UTRATDD and UTRATDD	
6.3.8	E-UTRA FDD RRC connection release redirection to UTRA TDD without SI provided	Rel-9	C25	UE supporting E-UTRA FDD and UTRA TDD	
6.3.9	Redirection from E-UTRAN FDD to UTRAN FDD without System Information	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	Release on other RAT
6.3.10	Redirection from E-UTRAN FDD to GERAN when System Information is not provided	Rel-9	C27	UE supporting E-UTRA FDD and GERAN	
6.3.11	Redirection from E-UTRAN TDD to GERAN when System Information is not provided	Rel-9	C28	UE supporting E-UTRA TDD and GERAN	
6.3.12	E-UTRAN TDD RRC connection release redirection to UTRAN FDD without SI provided	Rel-9	C07	UE supporting E-UTRA TDD and UTRA FDD	
Timing ar	nd Signalling Characteristics				
7.1.1	E-UTRAN FDD - UE Transmit Timing Accuracy	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
7.1.1_1	E-UTRAN FDD - UE Transmit Timing Accuracy (Non DRx UE)	Rel-8 only	C23	UE supporting E-UTRA FDD but not supporting Feature Group Indicator 5	
7.1.2	E-UTRAN TDD - UE Transmit Timing Accuracy	Rel-8	C02c	UE supporting E-UTRATDD and Feature Group Indicator 5	
7.1.2_1	E-UTRAN TDD - UE Transmit Timing Accuracy (Non DRx UE)	Rel-8 only	C24	UE supporting E-UTRATDD but not supporting Feature Group Indicator 5	
7.2.1	E-UTRAN FDD - UE Timing Ad vance Adjustment Accuracy	Rel-8	C01	UE supporting E-UTRA FDD	
7.2.2	E-UTRAN TDD - UE Timing Ad vance Adjustment Accuracy	Rel-8	C02	UE supporting E-UTRATDD	
7.3.1	E-UTRAN FDD Radio Link Monitoring Test for Out-of-Sync	Rel-8	C01	UE supporting E-UTRA FDD	
7.3.2	E-UTRAN FDD Radio Link Monitoring Test for In-Sync	Rel-8	C01	UE supporting E-UTRA FDD	
7.3.3	E-UTRAN TDD Radio Link Monitoring Test for Out-of-Sync	Rel-8	C02	UE supporting E-UTRATDD	
7.3.4	E-UTRAN TDD Radio Link Monitoring Test for In-Sync	Rel-8	C02	UE supporting E-UTRATDD	
7.3.5	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync in DRX	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
7.3.6	E-UTRAN FDD Radio Link Monitoring Test for In-sync in DRX	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
7.3.7	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync in DRX	Rel-8	C02c	UE supporting E-UTRATDD and Feature Group Indicator 5	
7.3.8	E-UTRAN TDD Radio Link Monitoring Test for In-sync in DRX	Rel-8	C02c	UE supporting E-UTRATDD and Feature Group Indicator 5	
7.3.9	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with Non MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	
7.3.10	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with Non MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115	
7.3.11	E-UTRAN FDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with Non MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	Release on other RAT
7.3.12	E-UTRAN TDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with Non MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115	
7.3.13	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	
7.3.14	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRATDD and Feature Group Indicator 115	
7.3.15	E-UTRAN FDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	
7.3.16	E-UTRAN TDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRATDD and Feature Group Indicator 115	
UE Measu	rements Procedures				
8.1.1	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-8	C01	UE supporting E-UTRA FDD	
8.1.2	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
8.1.3	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
8.1.4	Void				
8.1.5	E-UTRAN FDD - FDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C13	UE supporting E-UTRA FDD, CSG and intra- frequency SI acquisition for HO	
8.1.6	E-UTRAN FDD - FDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C13	UE supporting E-UTRA FDD, CSG and intra- frequency SI acquisition for HO	
8.1.7	E-UTRAN FDD-FDD Intra- Frequency Event-Triggered Reporting under Time Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	
8.2.1	E-UTRAN TDD-TDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-8	C02c	UE supporting E-UTRATDD and Feature Group Indicator 5	

Clause	Title	Release		Applicability	Additional Information	
			Condition	Comments	_	ease on er RAT
8.2.2	E-UTRAN TDD-TDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX	Rel-8	C02c	UE supporting E-UTRATDD and Feature Group Indicator 5		
8.2.3	E-UTRAN TDD - TDD Intra- frequency identification of a new CGI of E-UTR A cell using autonomous gaps	Rel-9	C15	UE supporting E-UTRA TDD, CSG and intra- frequency SI acquisition for HO.		
8.2.4	E-UTRAN TDD - TDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C15	UE supporting E-UTRA TDD, CSG and intra- frequency SI acquisition for HO		
8.2.5	E-UTRAN TDD-TDD Intra- Frequency Event-Triggered Reporting under Time Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115		
8.3.1	E-UTRAN FDD-FDD inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25	It is not necessary for CA UEs to be tested in this test if 8.20.1 case is executed.	
8.3.2	E-UTRAN FDD-FDD inter- frequency event triggered reporting when DRX is used under fading propagation conditions in asynchronous cells	Rel-8	C01e	UE supporting E-UTRA FDD and Feature Group Indicators 5 and 25		
8.3.3	E-UTRAN FDD-FDD inter frequency event triggered reporting under AWGN propagation conditions in asynchronous cells with DRX when L3 filtering is used	Rel-8	C01e	UE supporting E-UTRA FDD and Feature Group Indicators 5 and 25		
8.3.4	E-UTRAN FDD - FDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C14	UE supporting E-UTRA FDD, CSG and inter- frequency SI acquisition for HO		
8.3.5	E-UTRAN FDD - FDD Inter- frequency identification of a new CGI of E-UTR A cell using autonomous gaps with DRX	Rel-9	C14	UE supporting E-UTRA FDD, CSG and inter- frequency SI acquisition for HO.		
8.3.6	E-UTRAN FDD-FDD Inter- frequency event triggered reporting without measurement gaps under AWGN propagation conditions in asynchronous cells	Rel-10	C47	UE supporting E-UTRA FDD and Feature Group Indicator 25 and Measurement without gaps		
8.4.1	E-UTRAN TDD-TDD inter- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-8	C02b	UE supporting E-UTRA TDD and Feature Group Indicator 25	It is not necessary for CA UEs to be tested in this test if 8.20.2 case is executed.	

Clause	Title	Title Release Applicability		Applicability	Additional Information	
			Condition	Comments	_	ease on ner RAT
8.4.2	E-UTRAN TDD-TDD inter- frequency event triggered reporting when DRX is used under fading propagation conditions in synchronous cells	Rel-8	C02e	UE supporting E-UTRATDD and Feature Group Indicators 5 and 25		
8.4.3	E-UTRAN TDD-TDD inter- frequency event triggered reporting under AWGN propagation conditions in synchronous cells with DRX when L3 filtering is used	Rel-8	C02e	UE supporting E-UTRATDD and Feature Group Indicators 5 and 25		
8.4.4	E-UTRAN TDD - TDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C16	UE supporting E-UTRA TDD, CSG and inter- frequency SI acquisition for HO.		
8.4.5	E-UTRAN TDD - TDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C16	UE supporting E-UTRA TDD, CSG and inter- frequency SI acquisition for HO.		
8.5.1	E-UTRAN FDD-UTRAN FDD event triggered reporting under fading propagation conditions	Rel-8	C04g	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 15 and 22	It is not necessary for CA UEs to be tested in this test if 8.20.3 case is executed.	
8.5.2	E-UTRAN FDD-UTRAN FDD SON ANR cell search reporting under AWGN propagation conditions	Rel-8	C04f	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 5, 19 and 22		
8.5.3	E-UTRAN FDD - UTRAN FDD event triggered reporting when DRX is used under fading propagation conditions	Rel-8	C04d	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 5, 15 and 22		
8.5.4	E-UTRAN FDD - UTRAN FDD enhanced cell identification under AWGN propagation conditions	Rel-9	C29	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicator 15		
8.5.6	E-UTRAN FDD - UTRAN FDD event triggered reporting without measurement gaps under AWGN propagation conditions	Rel-10	C48	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicator 15 and 22 and Measurement without gaps		
8.6.1	E-UTRAN TDD-UTRAN FDD event triggered reporting under fading propagation conditions	Rel-8	C07b	UE supporting E-UTRATDD and UTRAFDD and Feature Group Indicators 15 and 22		
8.7.1	E-UTRAN TDD-UTRAN TDD cell search under fading propagation conditions	Rel-8	C05b	UE supporting E-UTRATDD and UTRATDD and Feature Group Indicators 15 and 22	It is not necessary for CA UEs to be tested in this test if 8.20.4 case is executed.	
8.7.2	E-UTRAN TDD - UTRAN TDD cell search when DRX is used under fading propagation conditions	Rel-8	C05d	UE supporting E-UTRATDD and UTRATDD and Feature Group Indicators 5, 15 and 22		Rel-9 UTRA TDD

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Clause	Title	Release		Additional Information	
			Condition	Comments	Release on other RAT
8.7.3	E-UTRAN TDD - UTRAN TDD SON ANR cell search reporting under AWGN propagation conditions	Rel-8	C05b	UE supporting E-UTRATDD and UTRATDD and Feature Group Indicator 22	Rel-9 UTRA TDD
8.7.4	E-UTRAN TDD - UTRAN TDD enhanced cell identification under AWGN propagation conditions	Rel-9	C31	UE supporting E-UTRATDD and UTRATDD and Feature Group Indicator 15	
8.8.1	E-UTRAN FDD-GSM event triggered reporting in AWGN	Rel-8	C08f	UE supporting E-UTRA FDD and GSM and Feature Group Indicators 15 and 23	
8.8.2	E-UTRAN FDD - GSM event triggered reporting when DRX is used in AWGN	Rel-8	C08d	UE supporting E-UTRAFDD and GSM and Feature Group Indicators 5, 15 and 23	
8.9.1	E-UTRAN FDD-UTRAN TDD event triggered reporting in fading propagation conditions	Rel-8	C06b	UE supporting E-UTRAFDD and UTRATDD and Feature Group Indicators 15 and 22	Rel-9 UTRA TDD
8.9.2	E-UTRAN FDD - UTRAN TDD enhanced cell identification under AWGN propagation conditions	Rel-9	C30	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicator 15	
8.10.1	E-UTRAN TDD-GSM event triggered reporting in AWGN	Rel-8	C09g	UE supporting E-UTRATDD and GSM and Feature Group Indicators 15 and 23	
8.10.2	E-UTRAN TDD - GSM event triggered reporting when DRX is used in AWGN	Rel-8	C09e	UE supporting E-UTRATDD and GSM and Feature Group Indicators 5, 15 and 23	
8.11.1	Multiple E-UTRAN FDD-FDD Inter-frequency event triggered reporting under fading propagation conditions	Rel-8	C01b	UE supporting E-UTRAFDD and Feature Group Indicator 25	
8.11.2	E-UTRAN TDD - E-UTRAN TDD and E-UTRAN TDD Inter- frequency event triggered reporting under fading propagation conditions	Rel-8	C02b	UE supporting E-UTRATDD and Feature Group Indicator 25	
8.11.3	E-UTRAN FDD-FDD Inter- frequency and UTRAN FDD event triggered reporting under fading propagation conditions	Rel-8	C04e	UE supporting E-UTRAFDD and UTRAFDD and Feature Group Indicators 22 and 25	
8.11.4	InterRAT E-UTRA TDD to E- UTRA TDD and UTRA TDD cell search	Rel-8	C05e	UE supporting E-UTRATDD and UTRATDD and Feature Group Indicators 22 and 25	
8.11.5	Combined E-UTRAN FDD - E- UTRA FDD and GSM cell search; E-UTRA cells in fading; GSM cell in static propagation conditions	Rel-8	C08b	UE supporting E-UTRAFDD and GSM and Feature Group Indicator 23	
8.11.6	Combined E-UTRAN TDD - E- UTRA TDD and GSM cell search; E-UTRA cells in fading; GSM cell in static propagation conditions	Rel-8	C09a	UE supporting E-UTRATDD and GSM and Feature Group Indicator 23	
8.12.1	Void				
8.13.1 8.14.1	Void  E-UTRAN TDD-FDD Inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-9	C22	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicator 25	
8.14.2	E-UTRAN TDD-FDD Inter- frequency event triggered reporting when DRX is used under fading propagation conditions in synchronous cells	Rel-9	C38	UE supporting E-UTRAFDD and E-UTRATDD and Feature Group Indicators 4 and 25	

Clause	Title	Release		Additional Information	
			Condition	Comments	Release on other RAT
8.14.3	E-UTRAN TDD - FDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C39	UE supporting E-UTRAFDD and E-UTRATDD, CSG and inter-frequency SI acquisition for HO and Feature Group Indicator 25	
8.15.1	E-UTRAN FDD-TDD Inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-9	C22	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicator 25	
8.15.2	E-UTRAN FDD-TDD Inter- frequency event triggered reporting when DRX is used under fading propagation conditions in asynchronous cells	Rel-9	C38	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 4 and 25	
8.15.3	E-UTRAN FDD - TDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C39	UE supporting E-UTRA FDD and E-UTRA TDD, CSG and inter-frequency SI acquisition for HO and Feature Group Indicator 25	
8.16.1	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX	Rel-10	C32	UE supporting E-UTRAFDD and CA and Feature Group Indicator 111	
8.16.2	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX	Rel-10	C33	UE supporting E-UTRATDD and CA and Feature Group Indicator 111	
8.16.3	E-UTRAN FDD-FDD Event triggered reporting on deactivated SCell with PCell interruption in non-DRX	Rel-10	C32a	UE supporting E-UTRAFDD and intra-band contiguous DL CA and Feature Group Indicator 111	
8.16.4	E-UTRANTDD-TDD Event triggered reporting on deactivated SCell with PCell interruption in non-DRX	Rel-10	C33a	UE supporting E-UTRATDD and intra-band contiguous DL CA and Feature Group Indicator 111	
8.16.5	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX for 20 MHz bandwidth	Rel-10	C32	UE supporting E-UTRAFDD and CA and Feature Group Indicator 111	
8.16.6	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX for 20 MHz bandwidth	Rel-10	C33	UE supporting E-UTRATDD and CA and Feature Group Indicator 111	
8.18.1	E-UTRAN TDD-HRPD event triggered reporting under fading propagation conditions	Rel-9	C40	UE supporting E-UTRATDD and cdma2000 HRPD and Feature Group Indicator 15	
8.19.1	E-UTRAN TDD-CDMA2000 1X event triggered reporting under fading propagation conditions	Rel-9	C41	UE supporting E-UTRATDD and cdma2000 1xRTT and Feature Group Indicator 15	
8.20.1	E-UTRAN FDD-FDD Inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-10	C18	UE supporting E-UTRA FDD and CA	
8.20.2	E-UTRAN TDD-TDD Inter- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-10	C19	UE supporting E-UTRATDD and CA	
8.20.3	E-UTRAN FDD - UTRAN FDD event triggered reporting under fading propagation conditions	Rel-10	C43	UE supporting E-UTRA FDD, CA and UTRA FDD and Feature Group Indicator 15	

Clause	Title	Release		Additional Information	
			Condition	Comments	Release on other RAT
8.20.4	E-UTRAN TDD to UTRAN TDD cell search under fading propagation conditions	Rel-10	C44	UE supporting E-UTRA TDD, CA and UTRA TDD and Feature Group Indicator 15	
	nent Performance Requirements				
9.1.1.1	FDD Intra Frequency Absolute RSRP Accuracy	Rel-8	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16	
9.1.1.2	FDD Intra Frequency Relative Accuracy of RSRP	Rel-8	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16	
9.1.2.1	TDD Intra Frequency Absolute RSRP Accuracy	Rel-8	C02f	UE supporting E-UTRATDD and Feature Group Indicator 16	
9.1.2.2	TDD Intra Frequency Relative Accuracy of RSRP	Rel-8	C02f	UE supporting E-UTRATDD and Feature Group Indicator 16	
9.1.3.1	FDD - FDD Inter Frequency Absolute RSRP Accuracy	Rel-8	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25	
9.1.3.2	FDD - FDD Inter Frequency Relative Accuracy of RSRP	Rel-8	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25	
9.1.4.1	TDD - TDD Inter Frequency Absolute RSRP Accuracy	Rel-8	C02g	UE supporting E-UTRATDD and Feature Group Indicators 16 and 25	
9.1.4.2	TDD - TDD Inter Frequency Relative Accuracy of RSRP	Rel-8	C02g	UE supporting E-UTRATDD and Feature Group Indicators 16 and 25	
9.1.5.1	FDD - TDD Inter Frequency Absolute RSRP Accuracy	Rel-9	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25	
9.1.5.2	FDD - TDD Inter Frequency Relative Accuracy of RSRP	Rel-9	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators and 25	
9.1.6.1	FDD Absolute RSRP Accuracy E- UTRA for Carrier Aggregation	Rel-10	C18	UE supporting E-UTRA FDD and CA	
9.1.6.2	FDD Relative RSRP Accuracy E- UTRA for Carrier Aggregation	Rel-10	C18	UE supporting E-UTRA FDD and CA	
9.1.7.1	TDD Absolute RSRP Accuracy E- UTRA for Carrier Aggregation	Rel-10	C19	UE supporting E-UTRATDD and CA	
9.1.7.2	TDD Relative RSRP Accuracy E- UTRA for Carrier Aggregation	Rel-10	C19	UE supporting E-UTRATDD and CA	
9.1.8.2	FDD Relative RSRP under Time- Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	
9.1.9.2	TDD Relative RSRP under Time- Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRATDD and Feature Group Indicator 115	
9.1.10.1	FDD Absolute RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	
9.1.10.2	FDD Relative RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	

Clause	Title	Release	Applicability Additional Information		
			Condition	Comments	Release on other RAT
9.1.11.1	TDD Absolute RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRATDD and Feature Group Indicator 115	
9.1.11.2	TDD Relative RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRATDD and Feature Group Indicator 115	
9.1.13.1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz	Rel-10	C19	UE supporting E-UTRATDD and CA	
9.1.13.2	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz	Rel-10	C19	UE supporting E-UTRATDD and CA	
9.2.1.1	FDD Intra Frequency Absolute RSRQ Accuracy	Rel-8	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16	
9.2.2.1	TDD Intra Frequency Absolute RSRQ Accuracy	Rel-8	C02f	UE supporting E-UTRATDD and Feature Group Indicator 16	
9.2.9.1	FDD Absolute RSRQ under Time Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115	
9.2.10.1	TDD Absolute RSRQ under Time Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRATDD and Feature Group Indicator 115	
9.2.3.1	FDD - FDD Inter Frequency Absolute RSRQ Accuracy	Rel-8	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25	
9.2.3.2	FDD - FDD Inter Frequency Relative Accuracy of RSRQ	Rel-8	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25	
9.2.4.1	TDD - TDD Inter Frequency Absolute RSRQ Accuracy	Rel-8	C02g	UE supporting E-UTRATDD and Feature Group Indicators 16 and 25	
9.2.4.2	TDD -TDD Inter Frequency Relative Accuracy of RSRQ	Rel-8	C02g	UE supporting E-UTRATDD and Feature Group Indicators 16 and 25	
9.2.4A.1	FDD - TDD Inter Frequency Absolute RSRQ Accuracy	Rel-9	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25	
9.2.4A.2	FDD - TDD Inter Frequency Relative Accuracy of RSRQ	Rel-9	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25	
9.2.5.1	FDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation	Rel-10	C18	UE supporting E-UTRA FDD and CA	
9.2.5.2	FDD Relative RSRQ Accuracy E- UTRA for Carrier Aggregation	Rel-10	C18	UE supporting E-UTRA FDD and CA	
9.2.6.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation	Rel-10	C19	UE supporting E-UTRATDD and CA	
9.2.6.2	TDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation	Rel-10	C19	UE supporting E-UTRATDD and CA	
9.2.12.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz	Rel-10	C19	UE supporting E-UTRATDD and CA	
9.2.12.2	TDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz	Rel-10	C19	UE supporting E-UTRATDD and CA	

Clause	Title	Release		Applicability	Additional Information	
			Condition	Comments	Release on other RAT	
9.3.1	E-UTRAN FDD - UTRA FDD CPICH RSCP absolute accuracy	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD		
9.4.1	E-UTRAN FDD - UTRA FDD CPICH Ec/No absolute accuracy	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD		
9.3.2	E-UTRAN TDD - UTRA FDD CPICH RSCP absolute accuracy	Rel-9	C07	UE supporting E-UTRATDD and UTRAFDD		
9.4.2	E-UTRAN TDD - UTRA FDD CPICH Ec/No absolute accuracy	Rel-9	C07	UE supporting E-UTRATDD and UTRAFDD		
9.6.1	GSM RSSI accuracy for E-UTRAN FDD	Rel-9	C08g	UE supporting E-UTRAFDD and GSM and Feature Group Indicator 16 and 23		
9.6.2	GSM RSSI accuracy for E-UTRAN TDD	Rel-9	C09h	UE supporting E-UTRATDD and GSM and Feature Group Indicator 16 and 23		

Table 4.2-1a: Applicability of RRM conformance test cases Conditions

COT IF IR A-1-17 IND A44-17(3 AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) AND A44-17(5) AND A44-17(25) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(5) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A44-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A41-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A41-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A41-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A41-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A41-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A41-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A41-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A41-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A41-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A41-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A41-17(6) THEN R ELSE N/A  COT IF IR (A41-17) AND A41-17(6) AND A41-17(6) AND A44-17(6) AND A41-17(6) A	COA JE A 4 4 4 TIEN DELOE NA
CO16 IF (A.4.1-1/17 AND A.4.4-1/25) THEN R ELSE N/A  CO16 IF (A.4.1-1/17 AND A.4.4-1/5) THEN R ELSE N/A  CO17 IF (A.4.1-1/17 AND A.4.4-1/5) AND A.4.4-1/25) THEN R ELSE N/A  CO17 IF (A.4.1-1/17 AND A.4.4-1/5) AND A.4.4-1/25) THEN R ELSE N/A  CO18 IF (A.4.1-1/17 AND A.4.4-1/5) AND A.4.4-1/25) THEN R ELSE N/A  CO29 IF (A.4.1-1/17 AND A.4.4-1/16) AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/17 AND A.4.4-1/16) AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3) AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3) AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO21 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO22 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO24 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO34 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO34 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO44 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO46 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO46 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO46 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO46 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO46 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO47 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO48 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO50 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO50 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/25) THEN R EL	C01 IF A.4.1-1/1 THEN R ELSE N/A
CO16 IF (A.4.1-1/1 AND A.4.4-1/5) THEN R ELSE N/A  CO19 IF (A.4.1-1/1 AND A.4.4-1/5 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO19 IF (A.4.1-1/1 AND A.4.4-1/5 AND A.4.4-1/26) THEN R ELSE N/A  CO19 IF (A.4.1-1/1 AND A.4.4-1/6) THEN R ELSE N/A  CO20 IF (A.4.1-1/1 AND A.4.4-1/6) THEN R ELSE N/A  CO20 IF (A.4.1-1/1 AND A.4.4-1/6) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/26) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/26) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/26) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/26) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/26) THEN R ELSE N/A  CO21 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/26) THEN R ELSE N/A  CO22 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/26) THEN R ELSE N/A  CO31 IF (A.4.1-1/2 AND A.4.1-1/3 THEN R ELSE N/A  CO31 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/28) THEN R ELSE N/A  CO41 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/28 AND A.4.4-1/29) THEN R ELSE N/A  CO41 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/28 AND A.4.4-1/29) THEN R ELSE N/A  CO41 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/28 AND A.4.4-1/29) THEN R ELSE N/A  CO41 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/28 AND A.4.4-1/29) THEN R ELSE N/A  CO42 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/28 AND A.4.4-1/29) THEN R ELSE N/A  CO44 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/28 AND A.4.4-1/29) THEN R ELSE N/A  CO45 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/28 AND A.4.4-1/29) THEN R ELSE N/A  CO46 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/28 AND A.4.4-1/29) THEN R ELSE N/A  CO56 IF (A.4.1-1/4 AND A.4.1-1/4 AND A.4.4-1/18 AND A.4.4-1/29) THEN R ELSE N/A  CO56 IF (A.4.1-1/4 AND A.4.1-1/4 AND A.4.4-1/8 AND A.4.4-1/29) THEN R ELSE N/A  CO57 IF (A.4.1-1/4 AND A.4.1-1/4 AND A.4.4-1/8 AN	C01a IF (A.4.1-1/1 AND A.4.4-1/13 AND A.4.4-1/25) THEN R ELSE N/A
CO19 IF (A.4.1-1/1 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO19 IF (A.4.1-1/1 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO19 IF (A.4.1-1/1 AND A.4.4-1/6) THEN R ELSE N/A  CO20 IF (A.4.1-1/1 AND A.4.4-1/6) THEN R ELSE N/A  CO21 IF (A.4.1-1/2 AND A.4.4-1/6) AND A.4.4-1/25) THEN R ELSE N/A  CO22 IF (A.4.1-1/2 AND A.4.4-1/3) AND A.4.4-1/25) THEN R ELSE N/A  CO23 IF (A.4.1-1/2 AND A.4.4-1/3) THEN R ELSE N/A  CO24 IF (A.4.1-1/2 AND A.4.4-1/3) THEN R ELSE N/A  CO25 IF (A.4.1-1/2 AND A.4.4-1/3) THEN R ELSE N/A  CO26 IF (A.4.1-1/2 AND A.4.4-1/3) THEN R ELSE N/A  CO27 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  CO28 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  CO29 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  CO29 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  CO29 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  CO3 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  CO4 IF (A.4.1-1/7 AND A.4.1-1/3 THEN R ELSE N/A  CO4 IF (A.4.1-1/7 AND A.4.1-1/3 AND A.4.4-1/2 AND A.4.4-1/22) THEN R ELSE N/A  CO4 IF (A.4.1-1/7 AND A.4.1-1/3 AND A.4.4-1/2 AND A.4.4-1/23) THEN R ELSE N/A  CO4 IF (A.4.1-1/7 AND A.4.1-1/3 AND A.4.4-1/2 AND A.4.4-1/23) THEN R ELSE N/A  CO4 IF (A.4.1-1/7 AND A.4.1-1/3 AND A.4.4-1/2 AND A.4.4-1/23) THEN R ELSE N/A  CO4 IF (A.4.1-1/7 AND A.4.1-1/3 AND A.4.4-1/2 AND A.4.4-1/23) THEN R ELSE N/A  CO4 IF (A.4.1-1/7 AND A.4.1-1/3 AND A.4.4-1/2 AND A.4.4-1/23) THEN R ELSE N/A  CO5 IF (A.4.1-1/7 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO5 IF (A.4.1-1/7 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO5 IF (A.4.1-1/7 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO5 IF (A.4.1-1/7 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO5 IF (A.4.1-1/7 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO5 IF (A.4.1-1/7 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO5 IF (A.4.1-1/7 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO5	
CO19 IF (A.4.1-1/1 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A  CO19 IF (A.4.1-1/1 AND A.4.4-1/16) THEN R ELSE N/A  CO29 IF (A.4.1-1/2 AND A.4.4-1/16) AND A.4.4-1/25) THEN R ELSE N/A  CO29 IF (A.4.1-1/2 AND A.4.4-1/3) AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3) AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/5) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/5) AND A.4.4-1/23) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/5) AND A.4.4-1/23) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/5) AND A.4.4-1/25) THEN R ELSE N/A  CO21 IF (A.4.1-1/2 AND A.4.4-1/5) AND A.4.4-1/25) THEN R ELSE N/A  CO21 IF (A.4.1-1/2 AND A.4.4-1/16) AND A.4.4-1/25) THEN R ELSE N/A  CO31 IF (A.4.1-1/2 AND A.4.4-1/16) AND A.4.4-1/25) THEN R ELSE N/A  CO31 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO41 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO42 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO44 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO46 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO47 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO48 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A  CO59 IF	
CO11 IF (AA.1-1/1 AND AA.4-1/16) THEN R ELSE N/A CO22 IF (AA.1-1/2 AND AA.4-1/16) AND AA.4-1/25) THEN R ELSE N/A CO23 IF (AA.1-1/2 AND AA.4-1/3) THEN R ELSE N/A CO26 IF (AA.1-1/2 AND AA.4-1/3) THEN R ELSE N/A CO26 IF (AA.1-1/2 AND AA.4-1/3) THEN R ELSE N/A CO26 IF (AA.1-1/2 AND AA.4-1/3) THEN R ELSE N/A CO26 IF (AA.1-1/2 AND AA.4-1/3) THEN R ELSE N/A CO26 IF (AA.1-1/2 AND AA.4-1/3) THEN R ELSE N/A CO26 IF (AA.1-1/2 AND AA.4-1/3) THEN R ELSE N/A CO27 IF (AA.1-1/2 AND AA.4-1/3) THEN R ELSE N/A CO28 IF (AA.1-1/2 AND AA.4-1/3) THEN R ELSE N/A CO28 IF (AA.1-1/2 AND AA.4-1/3) THEN R ELSE N/A CO29 IF (AA.1-1/2 AND AA.4-1/3) THEN R ELSE N/A CO37 IF (AA.1-1/2 AND AA.4-1/3) THEN R ELSE N/A CO38 IF (AA.1-1/2 AND AA.4-1/3) THEN R ELSE N/A CO39 IF (AA.1-1/3 AND AA.4-1/3) THEN R ELSE N/A CO49 IF (AA.1-1/1 AND AA.1-1/3) AND AA.4-1/25 THEN R ELSE N/A CO49 IF (AA.1-1/1 AND AA.1-1/3) AND AA.4-1/25 AND AA.4-1/22) THEN R ELSE N/A CO40 IF (AA.1-1/1 AND AA.1-1/3 AND AA.4-1/25 AND AA.4-1/25) THEN R ELSE N/A CO40 IF (AA.1-1/1 AND AA.1-1/3 AND AA.4-1/25 AND AA.4-1/25) THEN R ELSE N/A CO40 IF (AA.1-1/1 AND AA.1-1/3 AND AA.4-1/25 AND AA.4-1/25) THEN R ELSE N/A CO40 IF (AA.1-1/1 AND AA.1-1/3 AND AA.4-1/3 AND AA.4-1/25) THEN R ELSE N/A CO40 IF (AA.1-1/1 AND AA.1-1/3 AND AA.4-1/3 AND AA.4-1/25) THEN R ELSE N/A CO40 IF (AA.1-1/1 AND AA.1-1/3 AND AA.4-1/3 AND AA.4-1/25) THEN R ELSE N/A CO40 IF (AA.1-1/1 AND AA.1-1/3 AND AA.4-1/3 AND AA.4-1/25) THEN R ELSE N/A CO40 IF (AA.1-1/1 AND AA.1-1/3 AND AA.4-1/3 AND AA.4-1/25) THEN R ELSE N/A CO40 IF (AA.1-1/1 AND AA.1-1/3 AND AA.4-1/3 AND AA.4-1/25) THEN R ELSE N/A CO50 IF (AA.1-1/1 AND AA.1-1/3 AND AA.4-1/3 AND AA.4-1/25) THEN R ELSE N/A CO50 IF (AA.1-1/2 AND AA.1-1/3 AND AA.4-1/3 AND AA.4-1/25) THEN R ELSE N/A CO50 IF (AA.1-1/2 AND AA.1-1/3 AND AA.4-1/3 AND AA.4-1/25) THEN R ELSE N/A CO50 IF (AA.1-1/2 AND AA.1-1/3 AND AA.4-1/3 AND AA.4-1/25) THEN R ELSE N/A CO50 IF (AA.1-1/2 AND AA.1-1/3 AND AA.4-1/3 AND AA.4-1/25) THEN R ELSE N/A CO60 IF (AA.1-1/2 AND AA.1-1/3 AND AA.4-1/3 AND AA.4-1/3 AND AA.4-1/3	
CO2 IF (A.4.1-1/2 THEN R ELSE N/A  CO2 IF (A.4.1-1/2 THEN R ELSE N/A  CO2 IF (A.4.1-1/2 THEN R ELSE N/A  CO2 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO20 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO21 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO22 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO23 IF (A.4.1-1/2 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO34 IF (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO36 IF (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO46 IF (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO46 IF (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO46 IF (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO46 IF (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO46 IF (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO46 IF (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO46 IF (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1/25 AND A.4.4-1/22) THEN R ELSE N/A  CO46 IF (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO46 IF (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO46 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO47 IF (A.4.1-1/4 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO58 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/22) THEN R ELSE N/A  CO59 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/22) THEN R ELSE N/A  CO59 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/22) THEN R ELSE N/A  CO59 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/22) THEN R ELSE N/A  CO59 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/22) THEN R ELSE N/A  CO69 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-	
CO22 IF (A.4.1-1/2 AND A.4.3-1/3 AND A.4.3-1/25) THEN R ELSE N/A  CO26 IF (A.4.1-1/2 AND A.4.3-1/25) THEN R ELSE N/A  CO26 IF (A.4.1-1/2 AND A.4.3-1/25) THEN R ELSE N/A  CO26 IF (A.4.1-1/2 AND A.4.4-1/5 AND A.4.3-1/25) THEN R ELSE N/A  CO26 IF (A.4.1-1/2 AND A.4.4-1/5 AND A.4.3-1/25) THEN R ELSE N/A  CO27 IF (A.4.1-1/2 AND A.4.3-1/5 AND A.4.3-1/25) THEN R ELSE N/A  CO28 IF (A.4.1-1/2 AND A.4.3-1/5 AND A.4.3-1/25) THEN R ELSE N/A  CO29 IF (A.4.1-1/2 AND A.4.3-1/5 AND A.4.3-1/25) THEN R ELSE N/A  CO39 IF (A.4.1-1/2 AND A.4.3-1/16) THEN R ELSE N/A  CO40 IF (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A  CO41 IF (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A  CO41 IF (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A  CO42 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/26 AND A.4.4-1/22) THEN R ELSE N/A  CO44 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22 AND A.4.4-1/22) THEN R ELSE N/A  CO45 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22 AND A.4.4-1/22) THEN R ELSE N/A  CO46 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22 AND A.4.4-1/25) THEN R ELSE N/A  CO47 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A  CO48 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO50 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO50 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO50 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO50 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO50 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO50 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO60 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO60 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.1-1/3 AND A.4	
CO26 IF (A.4.1-112 AND A.4-113) AND A.4-125) THEN R ELSE N/A CO26 IF (A.4.1-112 AND A.4-126) THEN R ELSE N/A CO26 IF (A.4.1-112 AND A.4-115 AND A.4-173 AND A.4-173) THEN R ELSE N/A CO27 IF (A.4.1-112 AND A.4-115 AND A.4-173 AND A.4-173) THEN R ELSE N/A CO28 IF (A.4.1-112 AND A.4-175 AND A.4-173 AND A.4-1725) THEN R ELSE N/A CO28 IF (A.4.1-112 AND A.4-176 AND A.4-1725) THEN R ELSE N/A CO29 IF (A.4.1-112 AND A.4-176 AND A.4-1725) THEN R ELSE N/A CO39 IF (A.4.1-112 AND A.4-176 AND A.4-1725) THEN R ELSE N/A CO31 IF (A.4.1-171 AND A.4.1-173) THEN R ELSE N/A CO41 IF (A.4.1-171 AND A.4.1-173) THEN R ELSE N/A CO41 IF (A.4.1-171 AND A.4.1-173 AND A.4-1725) THEN R ELSE N/A CO42 IF (A.4.1-171 AND A.4.1-173 AND A.4.4-1725) THEN R ELSE N/A CO44 IF (A.4.1-171 AND A.4.1-173 AND A.4.4-1725) THEN R ELSE N/A CO45 IF (A.4.1-171 AND A.4.1-173 AND A.4.4-1725) THEN R ELSE N/A CO46 IF (A.4.1-171 AND A.4.1-173 AND A.4.4-1725 AND A.4.4-1725) THEN R ELSE N/A CO47 IF (A.4.1-171 AND A.4.1-173 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO48 IF (A.4.1-171 AND A.4.1-173 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO49 IF (A.4.1-171 AND A.4.1-173 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO41 IF (A.4.1-171 AND A.4.1-173 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO41 IF (A.4.1-171 AND A.4.1-173 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO41 IF (A.4.1-171 AND A.4.1-173 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO41 IF (A.4.1-172 AND A.4.1-174 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO51 IF (A.4.1-172 AND A.4.1-174 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO52 IF (A.4.1-172 AND A.4.1-174 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO55 IF (A.4.1-172 AND A.4.1-174 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO56 IF (A.4.1-172 AND A.4.1-174 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO56 IF (A.4.1-172 AND A.4.1-174 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO56 IF (A.4.1-172 AND A.4.1-174 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO58 IF (A.4.1-172 AND A.4.1-174 AND A.4.4-175 AND A.4.4-1729 THEN R ELSE N/A CO58 IF	
CO26	
CO26   F (A.4.1-112 AND A.4.4-1/5 AND A.4.4-1/3 AND A.4.	
CO26	
CO29   F (A.4.1-1/2 AND A.4.4-1/5 AND A.4.4-1/5) THEN R ELSE N/A	
CO21   F(A.4.1-1/2 AND A.4.4-1/6) THEN R ELSE N/A	
CO2g   IF (A.4.1-1/2 AND A.4.4-1/6 AND A.4.4-1/25) THEN R ELSE N/A	
CO3	
CO4	
CO4a IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A CO4b IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A CO4c Void CO4d IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO4e IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO4e IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO4g IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO5g IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A CO5g IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/9 AND A.4.4-1/25) THEN R ELSE N/A CO5g IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO5g Void CO5g IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO5g IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A CO5g IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A CO5g IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A CO5g IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A CO5g IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/25) THEN R ELSE N/A CO5g IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO5g IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO5g IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO5g IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO7g IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/16 AND A.4.4-1/22) THEN R ELSE N/A CO7g IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A CO7g IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO8g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO8g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO8g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO9g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN	
CO4b IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSÉ N/A  CO4c IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO4c IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22 AND A.4.4-1/25) THEN R ELSE N/A  CO4c IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A  CO4c IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/26) AND A.4.4-1/28 AND A.4.4-1/28 AND A.4.4-1/28 AND A.4.4-1/28 AND A.4.4-1/29 AND A.4.4-1/28 AND A.4.4-1/28 AND A.4.4-1/29 AND A.4.4-1/29 THEN R ELSE N/A  CO5c IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO5c IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A  CO5c Void  CO5d IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A  CO6e IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A  CO6e IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/3 AND A.4.4-1/25) THEN R ELSE N/A  CO6e IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/1 AND A.4.4-1/25) THEN R ELSE N/A  CO6e IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/1 AND A.4.4-1/22) THEN R ELSE N/A  CO6e IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/1 AND A.4.4-1/22) THEN R ELSE N/A  CO6e IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/1 AND A.4.4-1/22) THEN R ELSE N/A  CO7e IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/1 AND A.4.4-1/22) THEN R ELSE N/A  CO7e IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/18 AND A.4.4-1/22) THEN R ELSE N/A  CO7e IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/18 AND A.4.4-1/22) THEN R ELSE N/A  CO7e IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A  CO8e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/8 AND A.4.4-1/23) THEN R ELSE N/A  CO8e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/8 AND A.4.4-1/23) THEN R ELSE N/A  CO8e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/8 AND A.4.4-1/23) THEN R ELSE N/A  CO8e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/6 AND A.4.4-1/23) THEN R ELSE N/A  CO8e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/6 AND A.4.4-1/23) THEN R ELSE N/A  CO9e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/6 AND A.4.	
CO46 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO47 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22 AND A.4.4-1/25) THEN R ELSE N/A  CO48 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A  CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/27) THEN R ELSE N/A  CO59 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/28) THEN R ELSE N/A  CO50 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A  CO50 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A  CO50 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A  CO50 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A  CO50 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/2 AND A.4.4-1/25) THEN R ELSE N/A  CO60 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/2 AND A.4.4-1/25) THEN R ELSE N/A  CO61 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/2 AND A.4.4-1/25) THEN R ELSE N/A  CO62 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/3 AND A.4.4-1/22) THEN R ELSE N/A  CO63 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO64 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO76 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO76 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A  CO76 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A  CO76 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/23) THEN R ELSE N/A  CO76 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/3	
CO46 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/22) THEN R ELSE N/A CO47 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22 AND A.4.4-1/29) THEN R ELSE N/A CO48 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/19 AND A.4.4-1/22) THEN R ELSE N/A CO49 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/3 THEN R ELSE N/A CO50 IF (A.4.1-1/2 AND A.4.1-1/4 THEN R ELSE N/A CO50 IF (A.4.1-1/2 AND A.4.1-1/4 THEN R ELSE N/A CO50 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO50 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO50 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO50 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO50 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/2 AND A.4.4-1/25) THEN R ELSE N/A CO60 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/2 AND A.4.4-1/25) THEN R ELSE N/A CO60 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO60 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO70 IF (A.4.1-1/1 AND A.4.1-1/3 THEN R ELSE N/A CO70 IF (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A CO70 IF (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A CO70 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/22) THEN R ELSE N/A CO70 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO70 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/1 AND A.4.	C04b IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A
CO4e IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22 AND A.4.4-1/25) THEN R ELSE N/A CO4g IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/19 AND A.4.4-1/22) THEN R ELSE N/A CO5g IF (A.4.1-1/1 AND A.4.1-1/3) AND A.4.4-1/5 AND A.4.4-1/22) THEN R ELSE N/A CO5g IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A CO5g IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A CO5g IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO5g IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/25) THEN R ELSE N/A CO5g IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/25) THEN R ELSE N/A CO5g IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A CO5g IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/22 AND A.4.4-1/25) THEN R ELSE N/A CO6g IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/25) THEN R ELSE N/A CO6g IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO6g IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO7g IF (A.4.1-1/2 AND A.4.1-1/3 THEN R ELSE N/A CO7g IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/22) THEN R ELSE N/A CO7g IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/22) THEN R ELSE N/A CO7g IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/22) THEN R ELSE N/A CO7g IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO7g IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/3 AND A.4.4-1	
CO4F IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/19 AND A.4.4-1/22) THEN R ELSE N/A  CO4G IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO5 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/9 AND A.4.4-1/25) THEN R ELSE N/A  CO56 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/9 AND A.4.4-1/25) THEN R ELSE N/A  CO56 Void  CO56 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/5 THEN R ELSE N/A  CO56 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/5 THEN R ELSE N/A  CO56 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/5) THEN R ELSE N/A  CO66 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/2 AND A.4.4-1/25) THEN R ELSE N/A  CO66 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/17 AND A.4.4-1/22) THEN R ELSE N/A  CO66 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/17 AND A.4.4-1/22) THEN R ELSE N/A  CO67 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/17 AND A.4.4-1/22) THEN R ELSE N/A  CO77 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO78 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO79 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO70 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO70 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  CO70 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO90 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO90 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO90 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/	
CO4F IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/19 AND A.4.4-1/22) THEN R ELSE N/A  CO4G IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO5 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/9 AND A.4.4-1/25) THEN R ELSE N/A  CO56 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/9 AND A.4.4-1/25) THEN R ELSE N/A  CO56 Void  CO56 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/5 THEN R ELSE N/A  CO56 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/5 THEN R ELSE N/A  CO56 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/5) THEN R ELSE N/A  CO66 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/2 AND A.4.4-1/25) THEN R ELSE N/A  CO66 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/17 AND A.4.4-1/22) THEN R ELSE N/A  CO66 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/17 AND A.4.4-1/22) THEN R ELSE N/A  CO67 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/17 AND A.4.4-1/22) THEN R ELSE N/A  CO77 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO78 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO79 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO70 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO70 IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  CO70 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO90 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO90 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO90 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/	
CO5g   F (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/25) THEN R ELSÉ N/A  CO5   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/9 AND A.4.4-1/25) THEN R ELSE N/A  CO5d   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/9 AND A.4.4-1/25) THEN R ELSE N/A  CO5d   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A  CO5d   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A  CO5d   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A  CO5d   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/22 AND A.4.4-1/25) THEN R ELSE N/A  CO6a   F (A.4.1-1/3 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/25) THEN R ELSE N/A  CO6b   F (A.4.1-1/3 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO6b   F (A.4.1-1/3 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  CO7d   F (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/16 AND A.4.4-1/22) THEN R ELSE N/A  CO7d   F (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/16 AND A.4.4-1/22) THEN R ELSE N/A  CO7d   F (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/16 AND A.4.4-1/22) THEN R ELSE N/A  CO7d   F (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/16 AND A.4.4-1/22) THEN R ELSE N/A  CO7d   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/19 AND A.4.4-1/23) THEN R ELSE N/A  CO8d   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO8d   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO8d   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO8d   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO8d   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO8d   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  CO8d   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  CO8d   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO9d   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  CO9d   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  CO9d   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  CO9d   F (	
CO5a   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/9 AND A.4.4-1/25) THEN R ELSE N/A CO5b   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/25) THEN R ELSE N/A CO5c   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO5e   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A CO5e   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A CO6e   F (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/25) THEN R ELSE N/A CO6e   F (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO6b   F (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO7c   F (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/16 AND A.4.4-1/22) THEN R ELSE N/A CO7b   F (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/16 AND A.4.4-1/22) THEN R ELSE N/A CO7c   Void   CO8c   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO8a   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8b   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8c   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8c   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/19 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/2 AN	C04g IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A
CO5a   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/9 AND A.4.4-1/25) THEN R ELSE N/A CO5b   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/25) THEN R ELSE N/A CO5c   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO5e   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A CO5e   F (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/25 AND A.4.4-1/25) THEN R ELSE N/A CO6e   F (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/25) THEN R ELSE N/A CO6e   F (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO6b   F (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO7c   F (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/16 AND A.4.4-1/22) THEN R ELSE N/A CO7b   F (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/16 AND A.4.4-1/22) THEN R ELSE N/A CO7c   Void   CO8c   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO8a   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8b   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8c   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8c   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO8e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/19 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A CO9e   F (A.4.1-1/2 AN	C05 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A
CO56 IF (A4.1-1/2 AND A4.1-1/4 AND A.4.4-1/15 AND A4.4-1/25) THEN R ELSE N/A CO56 IF (A4.1-1/2 AND A4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/5 AND A4.4-1/25) THEN R ELSE N/A CO56 IF (A4.1-1/12 AND A4.1-1/4 AND A.4.4-1/22 AND A4.4-1/25) THEN R ELSE N/A CO66 IF (A4.1-1/1 AND A4.1-1/4 AND A.4.4-1/22 AND A4.4-1/25) THEN R ELSE N/A CO66 IF (A4.1-1/1 AND A4.1-1/4 AND A.4.4-1/14 AND A.4.4-1/22) THEN R ELSE N/A CO66 IF (A4.1-1/1 AND A4.1-1/4 AND A.4.4-1/15 AND A4.4-1/22) THEN R ELSE N/A CO77 IF (A4.1-1/2 AND A4.1-1/3) THEN R ELSE N/A CO78 IF (A4.1-1/2 AND A4.1-1/3) THEN R ELSE N/A CO70 IF (A4.1-1/2 AND A4.1-1/3) AND A.4.4-1/5 AND A.4.4-1/22) THEN R ELSE N/A CO70 IF (A4.1-1/2 AND A4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/22) THEN R ELSE N/A CO70 IF (A4.1-1/2 AND A4.1-1/3 AND A.4.4-1/3 AND A.4.4-1/22) THEN R ELSE N/A CO70 IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A4.1-1/1 AND A4.1-1/6 AND A.	C05a IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/9 AND A.4.4-1/25) THEN R ELSE N/A
CO56 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO56 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/22 AND A.4.4-1/25) THEN R ELSE N/A CO66 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A CO66 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/13 AND A.4.4-1/22) THEN R ELSE N/A CO66 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO77 IF (A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A CO78 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO70 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A CO70 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A CO70 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN	
CO56 IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A CO56 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/22 AND A.4.4-1/25) THEN R ELSE N/A CO66 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A CO66 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/13 AND A.4.4-1/22) THEN R ELSE N/A CO66 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO77 IF (A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A CO78 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A CO70 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A CO70 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A CO70 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A CO90 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN	C05c Void
COSe IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/22 AND A.4.4-1/25) THEN R ELSE N/A  CO6 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A  CO6 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A  CO6 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/11 AND A.4.4-1/22) THEN R ELSE N/A  CO7 IF (A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A  CO7 IF (A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A  CO7 IF (A.4.1-1/2 AND A.4.1-1/3) AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A  CO7 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A  CO7 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A  CO7 IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A  CO8 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO8 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO8 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO8 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO8 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 THEN R ELSE N/A  CO8 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 THEN R ELSE N/A  CO8 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 THEN R ELSE N/A  CO8 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 THEN R ELSE N/A  CO8 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 THEN R ELSE N/A  CO9 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 THEN R ELSE N/A  CO9 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO9 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO9 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO9 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO9 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO9 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO9 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO9 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO9 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO9 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  CO9 IF (A.4.1-1/1 AND A.	
C06 IF (A4.1-1/1 AND A4.1-1/4) THEN R ELSE N/A C06a IF (A4.1-1/1 AND A4.1-1/4 AND A.4.4-1/11 AND A.4.4-1/12) THEN R ELSE N/A C07 IF (A4.1-1/1 AND A4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A C07 IF (A4.1-1/2 AND A4.1-1/3) THEN R ELSE N/A C07a IF (A4.1-1/2 AND A4.1-1/3) AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A C07b IF (A4.1-1/2 AND A4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A C07c Void C08 IF (A4.1-1/1 AND A4.1-1/5) THEN R ELSE N/A C08a IF (A4.1-1/1 AND A4.1-1/5) THEN R ELSE N/A C08b IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A C08c IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A C08c IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A C08c IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/23) THEN R ELSE N/A C09c IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/23) THEN R ELSE N/A C09c IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/3 AND A4.4-1/23) THEN R ELSE N/A C09c IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/3 AND A4.4-1/3) THEN R ELSE N/A C09c IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/3 AND A4.4-1/3) THEN R ELSE N/A C09c IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/3 AND A4.4-1/3) THEN R ELSE N/A C09c IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/3 AND A4.4-1/3) THEN R ELSE N/A C10c IF (A4.1-1/4 AND A4.1-1/5 AND A4.4-1/6 AND A4.4-1/6) THEN R ELSE N/A C10c IF (A4.1-1/1 AND A4.1-1/6 AND A4.4-1/16 AND A4.4-1/23) THEN R ELSE N/A C11c IF (A4.1-1/1 AND A4.1-1/6 AN	
C06a IF (A4.1-1/1 AND A4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A C06b IF (A4.1-1/2 AND A4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A C07a IF (A4.1-1/2 AND A4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A C07b IF (A4.1-1/2 AND A4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A C07c Void C07c Void C08 IF (A4.1-1/1 AND A4.1-1/5) THEN R ELSE N/A C08a IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A C08b IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/15 AND A.4.4-1/3 THEN R ELSE N/A C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 THEN R ELSE N/A C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 THEN R ELSE N/A C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 THEN R ELSE N/A C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/3 THEN R ELSE N/A C09d IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/3 THEN R ELSE N/A C09d IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09d IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09d IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/23) THEN R ELSE N/A C09d IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/23) THEN R ELSE N/A C09d IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/3 AND A4.4-1/23) THEN R ELSE N/A C09d IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/23) THEN R ELSE N/A C09d IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/3 AND A4.4-1/23) THEN R ELSE N/A C09d IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/3 AND A4.4-1/23) THEN R ELSE N/A C09d IF (A4.1-1/1 AND A4.1-1/5 AND A4.4-1/3 AND A4.4-1/23) THEN R ELSE N/A C10 IF (A4.1-1/1 AND A4.1-1/5 AND A4.4-1/10 AND A4.4-1/23) THEN R ELSE N/A C11 IF (A4.1-1/1 AND A4.1-1/6) THEN R ELSE N/A C11 IF (A4.1-1/	
C06b IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A C07 IF (A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A C07b IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A C07c Void C08 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A C08a IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A C08b IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 AND A.4.4-1/3 THEN R ELSE N/A C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 THEN R ELSE N/A C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A C08c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/25 AND A.4.4-1/23) THEN R ELSE N/A C09c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A C10c IF (A.4.1-1/1 AND A.4.1	
C07 IF (A4.1-1/2 AND A4.1-1/3) THEN R ELSE N/A  C07a IF (A4.1-1/2 AND A4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A  C07b IF (A4.1-1/2 AND A4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  C07c Void  C08 IF (A4.1-1/1 AND A4.1-1/5) THEN R ELSE N/A  C08a IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A  C08b IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C08c IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08f IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/16 AND A4.4-1/23) THEN R ELSE N/A  C08g IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/16 AND A4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/16 AND A4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A4.4-1/23) THEN R ELSE N/A  C10g IF (A4.1-1/1 AND A4.1-1/6 AND A4.4-1/14 AND A4.4-1/23) THEN R ELSE N/A  C11 IF (A4.1-1/1 AND A4.1-1/6 AND A4.4-1/14 AND A4.4-1/24) THEN R ELSE N/A  C11 IF (A4.1-1/1 AND A4.1-1/7 AND A4.4-1/1 AND A4.4-1/1 AND A4.4-1/1 AND A4.4-1/1 AND A	
C07a IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A C07b IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A C08c IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A C09d IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09d IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09d IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09d Void C09d Void C09d Void C09d IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A C09d IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A C09d IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A C09d IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 AND A.4.4-1/3 THEN R ELSE N/A C09d IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 THEN R ELSE N/A C09d IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A C09d IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A C09d IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/13 AND A.4.4-1/23) THEN R ELSE N/A C10d IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/13 AND A.4.4-1/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/13 AND A.4.4-1/24) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.5-1/3 THEN R ELSE N/A	
C07b IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22) THEN R ELSE N/A  C07c Void  C08 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C08a IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A  C08b IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/3) THEN R ELSE N/A  C08f IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C08g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/19 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10g IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/16 AND A.4.4-1/26) THEN R ELSE N/A  C11g IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/19 AND A.4.4-1/26) THEN R ELSE N/A  C11g IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/19 AND A.4.4-1/24) THEN R ELSE N/A  C11g IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.5-1/1 AND A.4	
C07c Void  C08 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A  C08a IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A  C08b IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/3) THEN R ELSE N/A  C08f IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09d Void  C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10g IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/16 AND A.4.4-1/26) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/16 AND A.4.4-1/26) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.5-1/2) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.5-1/2) THEN R ELSE N/A	
C08a IF (A4.1-1/1 AND A4.1-1/5) THEN R ELSE N/A  C08a IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A  C08b IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C08c IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C08d IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08e IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08f IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C08g IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09a IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09b IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09c IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C09c IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09d Void  C09e IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/6 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/2 AND A4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A4.1-1/1 AND A4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10a IF (A4.1-1/1 AND A4.1-1/6 AND A.4.4-1/16 AND A.4.4-1/26) THEN R ELSE N/A  C10a IF (A4.1-1/1 AND A4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/26) THEN R ELSE N/A  C11a IF (A4.1-1/1 AND A4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/124) THEN R ELSE N/A  C11a IF (A4.1-1/1 AND A4.1-1/6 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C11b IF (A4.1-1/1 AND A4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A	
C08a IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A  C08b IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/2 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08f IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09a IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09b IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C09d Void  C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/3) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/3) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/3) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C08b IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSÉ N/A  C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08f IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C08g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C09 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C09a IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09b IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C09d Void  C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08f IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09a IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09b IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C09d Void  C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/3 AND A.4.4-1/3 THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09h IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/24) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/24) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A	
C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08f IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C09a IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09b IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C09d Void  C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/26) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	· · · · · · · · · · · · · · · · · · ·
C08e IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08f IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C08g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C09a IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09b IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09d Void  C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/24) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/3 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09h IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C08f IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSÉ N/A  C08g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C09a IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09b IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C09d Void  C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09h IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A	
C08g IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C09a IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09b IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C09d Void  C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09h IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09h IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C11a IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C09 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A  C09a IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09b IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C09d Void  C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09h IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C10a IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C09a IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A  C09b IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C09d Void  C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09h IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A	
C09b IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A  C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A  C09d Void  C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C09h IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A	
C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSÉ N/A  C09d Void  C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09h IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A	
C09d Void C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A C09h IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A C12 Void C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A  C09h IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A	
C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSE N/A C09h IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A C12 Void C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C09g IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/15 AND A.4.4-1/23) THEN R ELSÉ N/A  C09h IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C09h IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/16 AND A.4.4-1/23) THEN R ELSE N/A  C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A  C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A  C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A  C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	· ·
C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A  C12 Void  C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A  C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C12 Void C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	· ·
C13 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C14 IF (A.4.1-1/1 AND A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A	
C13 IF (A.4.1-1/2 AND A.4.3-1/1 AND A.4.3-1/2) THEN K ELSEN/A	
	O 10 IF (A.4.1-1/2 AND A.4.0-1/1 AND A.4.0-1/2) THEN K ELSE N/A

	A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A
C17 Void	
	L4.2-1/2) THEN R ELSE N/A
	A.4.2-1/2) THEN R ELSE N/A
C20 Void	
	.4.1-1/2 AND A.4.4-1/5 AND A.4.4-1/25 AND A.4.4-1/30) THEN R ELSE N/A
	.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A
	IOT A.4.4-1/5) THEN R ELSE N/A
	IOT A.4.4-1/5) THEN R ELSE N/A
	A4.1-1/4) THEN R ELSE N/A
	L4.1-1/4) THEN R ELSE N/A
	L4.1-1/5) THEN R ELSE N/A
	L4.1-1/5) THEN R ELSE N/A
	A.1-1/3 AND A.4.4-1/15) THEN R ELSE N/A
	A.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A
	A.1-1/4 AND A.4.4-1/15) THEN R ELSE N/A
	A.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A
	A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A
	.4.2-1/2 AND A.4.4-3/111) THEN R ELSE N/A
	A.4.2-1/2 AND A.4.6.1-1/2 AND A.4.4-3/111) THEN R ELSE N/A
	L4.1-1/6) THEN R ELSE N/A
	L4.1-1/7) THEN R ELSE N/A
	A.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A
	A.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A
	A.1-1/2 AND A.4.4-1/4 AND A.4.4-1/25) THEN R ELSE N/A
	A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/3 AND A.4.4-1/25) THEN R ELSE N/A
	A.1-1/6 AND A.4.4-1/15) THEN R ELSE N/A
	A.1-1/7 AND A.4.4-1/15) THEN R ELSE N/A
	A.1-1/2 AND A.4.4-1/16 AND A.4.4-1/25) THEN R ELSE N/A
	A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A
`	A.1-1/4 AND A.4.2-1/2 AND A.4.4-1/15) THEN R ELSE N/A
	L4.4-3/115) THEN R ELSE N/A
	L4.4-3/115) THEN R ELSE N/A
	A.4.4-1/25 AND A.4.5-1/4) THEN R ELSE N/A
C48 IF (A.4.1-1/1 AND A	A.1-1/3 AND A.4.4-1/15 AND A.4.4-1/22 AND A.4.5-1/5) THEN R ELSE N/A

# Annex A (normative): ICS proforma for E-UTRA User Equipment

Notwithstanding the provisions of the copyright related to the text of the present document, The Organizational Partners of 3GPP grant that users of the present document may freely reproduce the ICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed ICS.

## A.1 Guidance for completing the ICS proforma

## A.1.1 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardised manner.

The ICS proforma is subdivided into clauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of the protocol;
- ICS proforma tables (for example: UE implementation types, Teleservices, etc).

### A.1.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [4].

#### Item column

The item column contains a number which identifies the item in the table.

#### Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

#### Reference column

The reference column gives reference to the relevant 3GPP core specifications.

#### Release column

The release column indicates the earliest release from which the capability or option is relevant.

#### Comments column

This column is left blank for particular use by the reader of the present document.

References to items

For each possible item answer (answer in the support column) within the ICS proforma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE 1: A.4.1-1/2 is the reference to the answer of item 2 in table A.4.1-1.

## A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation may complete the ICS proforma in each of the spaces provided. More detailed instructions are given at the beginning of the different clauses of the ICS proforma.

## A.2 Identification of the User Equipment

Identification of the User Equipment should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

A.2.1	Date of the statement
A.2.2  UEUT name:	User Equipment Under Test (UEUT) identification
Hardware co	nfiguration:
Software con	figuration:

Release 10

A.2.3 Product s	upplier	
Name:		
Address:		
Telephone number:		
relephone number.		
Facsimile number:		
E-mail address:		
Additional information:		
A.2.4 Client		
Name:		
Address:		
Telephone number:		
relephone number.		
Eassimile number		
Facsimile number:		

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Additional	information:	
A.2.5 Name:	ICS contact person	
Telephone	number:	
Facsimile n	u mber:	
E-mail addı	ress:	
Additional	information:	

## A.3 Identification of the protocol

This ICS proforma applies to the 3GPP standards listed in the normative references clause of the present document.

## A.4 ICS proforma tables

Editor's Note: This clause is not completed

## A.4.1 UE Implementation Types

Table A.4.1-1: UE Radio Technologies

Item	UE Radio Technologies	Ref.	Release	Comments
1	E-UTRA FDD	36.101	Rel-8	
2	E-UTRATDD	36.101	Rel-8	
3	UTRA FDD	25.101	Rel-8	
4	UTRATDD	25.102	Rel-8	
5	GSM	45.005	Rel-8	
6	cdma2000 HRPD	C.S0024-A	Rel-8	
7	cdma2000 1xRTT	C.S0002-A	Rel-8	

## A.4.2 UE Service Capabilities

Table A.4.2-1: UE Radio Technologies

Item	UE Radio Technologies	Ref.	Release	Comments
1	LTE MBMS	36.101	Rel-9	
2	LTE CA	36.101	Rel-10	
3	UL-MIMO	36.306 subclause 4.3.4.6	Rel-10	
4	eDL-MIMO	36.306 subclause 4.3.4.7	Rel-10	
5	Enhanced Dual Layer TDD	36.306 subclause 4.3.4.5	Rel-9	

## A.4.3 Baseline Implementation Capabilities

Table A.4.3-1: Supported protocols

ltem	Supported protocols	Ref.	Release	Comments
1	EPS Mobility Management	24.301,5	Rel-8	
2	EPS Session Management	24.301, 6	Rel-8	
3	GPRS Mobility Management	23.060	R99	
4	Radio Resource Control	36.331	Rel-8	
5	Packet Data Convergence Protocol	36.323	Rel-8	
6	Radio Link Control	36.322	Rel-8	
7	Medium Access Control	36.321	Rel-8	
8	Physical Layer	36.201,	Rel-8	
		36.302		

Table A.4.3-2: Special Conformance Testing Functions

Item	Special Conformance Testing Functions	Ref.	Release	Comments
1	UE test loop	36.509	Rel-8	
2	Max UE test loop UL RLC SDU size 65535 bits	36.509	Rel-8	

Table A.4.3-3: RF Baseline Implementation Capabilities

Item	RF Baseline Implementation Capabilities	Ref.	Release	Comments		
1	Frequency band: 1920-1980, 2110-2170 MHz	36.101, 5.5	Rel-8	FDD Band 1		
2	Frequency band: 1850-1910, 1930-1990 MHz	36.101, 5.5	Rel-8	FDD Band 2		
3	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.5	Rel-8	FDD Band 3		
4	Frequency band: 1710-1755, 2110-2155 MHz	36.101, 5.5	Rel-8	FDD Band 4		
5	Frequency band: 824-849, 869-894 MHz	36.101, 5.5	Rel-8	FDD Band 5		
6	Frequency band: 830-840, 875-885 MHz	36.101, 5.5	Rel-8	FDD Band 6		
7	Frequency band: 2500-2570, 2620-2690 MHz	36.101, 5.5	Rel-8	FDD Band 7		
8	Frequency band: 880-915, 925-960 MHz	36.101, 5.5	Rel-8	FDD Band 8		
9	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	36.101, 5.5	Rel-8	FDD Band 9		
10	Frequency band: 1710-1770, 2110-2170 MHz	36.101, 5.5	Rel-8	FDD Band 10		
11	Frequency band: 1427.9-1447.9, 1475.9-1495.9 MHz	36.101, 5.5	Rel-8	FDD Band 11		
12	Frequency band: 699-716, 729-746 MHz	36.101, 5.5	Rel-8	FDD Band 12		
13	Frequency band: 777-787, 746-756 MHz	36.101, 5.5	Rel-8	FDD Band 13		
14	Frequency band: 788-798, 758-768 MHz	36.101, 5.5	Rel-8	FDD Band 14		
15	Reserved	36.101, 5.5	Rel-8	FDD Band 15		
16	Reserved	36.101, 5.5	Rel-8	FDD Band16		
17	Frequency band: 704-716, 734-746 MHz	36.101, 5.5	Rel-8	FDD Band 17		
18	Frequency band: 815-830, 860-875 MHz	36.101, 5.5	Rel-9	FDD Band 18		
19	Frequency band: 830-845, 875-890 MHz	36.101, 5.5	Rel-9	FDD Band 19		
20	Frequency band: 832-862, 791-821MHz	36.101, 5.5	Rel-9	FDD Band 20		
21	Frequency band: 1447.9-1462.9, 1495.9-1510.9 MHz	36.101, 5.5	Rel-9	FDD Band 21		
22	Frequency band: 3410-3490, 3510-3590 MHz	36.101, 5.5	Rel-10	FDD Band 22		
23	Frequency band: 2000-2020, 2180-2200 MHz	36.101, 5.5	Rel-10	FDD Band 23		
24	Frequency band: 1626.5-1660.5, 1525-1559 MHz	36.101, 5.5	Rel-10	FDD Band 24		
25	Frequency band: 1850-1915, 1930-1995 MHz	36.101, 5.5	Rel-10	FDD Band 25		
26	Frequency band: 814-849, 859-894 MHz	36.101, 5.5	Rel-11	FDD Band 26		
27	Frequency band: 807-824, 852-869 MHz	36.101, 5.5	Rel-11	FDD Band 27		
28	Frequency band: 703-748, 758-803 MHz	36.101, 5.5	Rel-11	FDD Band 28		
31	Frequency band: 452.5-457.5, 462.5-467.5 MHz	36.101, 5.5	Rel-12	FDD Band 31		
33	Frequency band: 1900-1920, 1900-1920 MHz	36.101, 5.5	Rel-8	TDD Band 33		
34	Frequency band: 2010-2025, 2010-2025 MHz	36.101, 5.5	Rel-8	TDD Band 34		
35	Frequency band: 1850-1910, 1850-1910 MHz	36.101, 5.5	Rel-8	TDD Band 35		
36	Frequency band: 1930-1990, 1930-1990 MHz	36.101, 5.5	Rel-8	TDD Band 36		
37	Frequency band: 1910-1930, 1910-1930 MHz	36.101, 5.5	Rel-8	TDD Band 37		
38	Frequency band: 2570-2620, 2570-2620 MHz	36.101, 5.5	Rel-8	TDD Band 38		
39	Frequency band: 1880-1920, 1880-1920 MHz	36.101, 5.5	Rel-8	TDD Band 39		
40	Frequency band: 2300-2400, 2300-2400 MHz	36.101, 5.5	Rel-8	TDD Band 40		
41	Frequency band: 2496-2690, 2496-2690 MHz	36.101, 5.5	Rel-10	TDD Band 41		
42	Frequency band: 3400-3600, 3400-3600 MHz	36.101, 5.5	Rel-10	TDD Band 42		
43	Frequency band: 3600-3800, 3600-3800 MHz	36.101, 5.5	Rel-10	TDD Band 43		
44	Frequency band: 703-803, 703-803 MHz	36.101, 5.5	Rel-11	TDD Band 44		
Note:	The values indicated in column "Release" are to be					
	which a band was introduced and not as a mandate that a UE conforming to particular release shall					

which a band was introduced and not as a mandate that a UE conforming to particular release shall support a particular band. For further guidance to release independent bands see TS 36.307 [16]

Table A.4.3-3a: RF Additional Baseline Implementation Capabilities

Item	RF Additional Baseline Implementation Capabilities	Ref.	Comments
1	•	36.101,	On a vating a hair da
'	Support of 1.4 MHz channel bandwidth		Operating bands
		5.6.1	supporting 1.4 MHz
			Bandwidth:
			2, 3, 4, 5, 8, 12, 23, 25,
_	0 ((0 MH)   1   1   1   1	00.404	26, 27, 35, 36
2	Support of 3 MHz channel bandwidth	36.101,	Operating bands
		5.6.1	supporting 3 MHz
			Bandwidth:
			2, 3, 4, 5, 8, 12, 23, 25,
			26, 27, 28, 35, 36, 44
3	Support of 5 MHz channel bandwidth	36.101,	All operating bands
		5.6.1	support 5 MHz
			Bandwidth
4	Support of 10 MHz channel bandwidth	36.101,	All operating bands
		5.6.1	support 10 MHz
			Bandwidth
5	Support of 15 MHz channel bandwidth	36.101,	Operating bands
		5.6.1	supporting 15 MHz
			Bandwidth:
			1, 2, 3, 4, 7, 9, 10, 18,
			19, 20, 21, 22, 25, 26,
			28, 33, 34, 35, 36, 37,
			38, 39, 40, 41, 42, 43,
			44
6	Support of 20 MHz channel bandwidth	36.101,	Operating bands
		5.6.1	supporting 20MHz
			Bandwidth:
			1, 2, 3, 4, 7, 9, 10, 20,
			22, 25, 28, 33, 35, 36,
			37, 38, 39, 40, 41, 42,
			43, 44

Table A.4.3-3b: Additional UE Power Class implementation Capabilities

Item	RF baseline UE Baseline implementation capability	Ref.	Comments
1	UE Power Class 1	36.101, 6.2.2	Applicable to Band 14
2	UE Power Class 3	36.101, 6.2.2	All applicable E-UTRA bands

Table A.4.3-4: PUSCH physical layer Categories

ltem	PUSCH physical layer categories	Ref.	Release	Comments
1	Category 1	36.306, 4.1	Rel-8	
2	Category 2	36.306, 4.1	Rel-8	
3	Category 3	36.306, 4.1	Rel-8	
4	Category 4	36.306, 4.1	Rel-8	
5	Category 5	36.306, 4.1	Rel-8	Support for 64QAM in UL
6	Category 6	36.306, 4.1	Rel-10	
7	Category 7	36.306, 4.1	Rel-10	
8	Category 8	36.306, 4.1	Rel-10	Support for 64QAM in UL

Table A.4.3-5: PDSCH physical layer Categories

ltem	PDSCH physical layer categories	Ref.	Release	Comments
1	Category 1	36.306, 4.1	Rel-8	
2	Category 2	36.306, 4.1	Rel-8	
3	Category 3	36.306, 4.1	Rel-8	
4	Category 4	36.306, 4.1	Rel-8	
5	Category 5	36.306, 4.1	Rel-8	
6	Category 6	36.306, 4.1	Rel-10	
7	Category 7	36.306, 4.1	Rel-10	
8	Category 8	36.306, 4.1	Rel-10	

Table A.4.3-6: Supported Mixed MBSFN-unicast capabilities

ltem	Supported Mixed MBSFN-unicast capabilities	Ref.	Release	Comments
1	Mixed MBSFN-unicast	36.211, 6.5	Rel-8	Support for MBSFN
				subframes: 1, 2, 3, 6, 7, 8

Table A.4.3-7: Additional capabilities

Item	Additional capabilities	Ref.	Release	Comments
1	Enhanced performance requirements type A for	36.101,	Rel-11	Support for Enhanced
	LTE	Clause 8		performance requirements
				type A

## A.4.4 Feature group indicators

In Table A.4.4-1, a 'VoLTE capable UE' corresponds to a UE that is capable of the "Voice domain preference for E-UTRAN" defined in TS 24.301 being set to "IMS PS voice only", "IMS PS voice preferred, CS voice as secondary" or "CS voice preferred, IMS PS voice as secondary" (Ref TS 25.331, clause B.1).

Table A.4.4-1: Feature group indicators 1-32

Ite	m Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the correspondin g release	Release	Ref.	Mnemonic	Comments
1	Support of - Intra-subframe frequency hopping for PUSCH scheduled by UL grant - DCI format 3a (TPC commands for PUCCH and PUSCH with single bit power adjustments) - Multi-user MIMO for PDSCH - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 – UE selected subband CQI without PMI - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI		3	Rel-8	36.331, Annex B.1	pc_FeatrGrp_1	Corresponding to the Index of Indicator, the leftmost binary bit 1 Set to true if supporting all functionalities in the feature group
2	Support of - Simultaneous CQI and ACK/NACK on PUCCH, i.e. PUCCH format 2a and 2b - Absolute TPC command for PUSCH - Resource allocation type 1 for PDSCH - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 – UE selected subband CQI without PMI - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 – UE selected subband CQI with single PMI			Rel-8	36.331, Annex B.1	pc_FeatrGrp_2	Corresponding to the Index of Indicator, the leftmost binary bit 2 Set to true if supporting all functionalities in the feature group

3	Support of - Semi-persistent scheduling - TTI bundling - 5bit RLC UM SN - 7bit PDCP SN Support of	- can only be set to 1 if the UE has set bit number 7 to 1.	Yes, if UE	Rel-8	36.331, Annex B.1	pc_FeatrGrp_3	Corresponding to the Index of Indicator, the leftmost binary bit 3 Set to true if supporting all functionalities in the feature group	
	- 5bit RLC UM SN - 7bit PDCP SN	set to 1 if the UE has set bit number 7 to 1.	supports VoLTE					
4	Support of - Short DRX cycle	- can only be set to 1 if the UE has set bit number 5 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_4	Corresponding to the Index of Indicator, the leftmost binary bit 4 Set to true if supporting all functionalities in the feature group	
5	Support of - Long DRX cycle - DRX command MAC control element			Rel-8	36.331, Annex B.1	pc_FeatrGrp_5	Corresponding to the Index of Indicator, the leftmost binary bit 5	
			Yes	Rel-9			Set to true if supporting all functionalities in the feature group	
6	Support of - Prioritized bit rate			Rel-8	36.331, Annex B.1	pc_FeatrGrp_6	Corresponding to the Index of Indicator, the leftmost binary bit 6	
			Yes	Rel-9			Set to true if supporting all functionalities in the feature group	
7	Support of - RLC UM	- can only be set to 0 if the UE does not		Rel-8	36.331, Annex B.1	pc_FeatrGrp_7	Corresponding to the Index of Indicator, the leftmost binary bit 7	
		support voice	Yes, if UE supports VoLTE	Rel-9			Set to true if supporting all functionalities in the feature group	
8	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH PS handover	- can only be set to 1 if the UE has set bit		Rel-8	36.331, Annex B.1	pc_FeatrGrp_8	Corresponding to the Index of Indicator, the leftmost binary bit 8	
		number 22 to 1	Yes, if UE supports UTRA	Rel-9			Set to true if supporting all functionalities in the feature group	
9	Support of - EUTRA RRC_CONNECTED to GERAN GSM_Dedicated handover	- related to SR-VCC - can only be set to 1 if the UE has set bit number 23 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_9	Corresponding to the Index of Indicator, the leftmost binary bit 9 Set to true if supporting all functionalities in the feature group	

10	Support of - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order with NACC (Network Assisted Cell Change)			Rel-8	36.331, Annex B.1	pc_FeatrGrp_10	Corresponding to the Index of Indicator, the leftmost binary bit 10 Set to true if supporting all functionalities in the feature group
11	Support of - EUTRA RRC_CONNECTED to CDMA2000 1xRTT CS Active handover	- can only be set to 1 if the UE has sets bit number 24 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_11	Corresponding to the Index of Indicator, the leftmost binary bit 11 Set to true if supporting all functionalities in the feature group
12	Support of - EUTRA RRC_CONNECTED to CDMA2000 HRPD Active handover	- can only be set to 1 if the UE has set bit number 26 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_12	Corresponding to the Index of Indicator, the leftmost binary bit 12 Set to true if supporting all functionalities in the feature group
13	Support of - Inter-frequency handover (within FDD or TDD)	- can only be set to 1 if the UE has set bit number 25 to 1	Yes, unless UE only supports band	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_13	Corresponding to the Index of Indicator, the leftmost binary bit 13 Set to true if supporting all functionalities in the feature group
			13				
14	Support of			Rel-8	36.331, Annex	pc_FeatrGrp_14	Corresponding to the Index
	<ul> <li>Measurement reporting event: Event A4 - Neighbour &gt; threshold</li> <li>Measurement reporting event: Event A5 - Serving &lt; threshold 1 &amp; Neighbour &gt; threshold 2</li> </ul>		Yes	Rel-9	B.1		of Indicator, the leftmost binary bit 14 Set to true if supporting all functionalities in the feature group
15	Support of - Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or	- can only be set to 1 if the UE has set at		Rel-8	36.331, Annex B.1	pc_FeatrGrp_15	Corresponding to the Index of Indicator, the leftmost binary bit 15

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	Release 10	49					,
	only UTRAN TDD and has set bit number 22 to 1  - Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively  - Measurement reporting event: Event B1 - Neighbour > threshold for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively	or 39 to 1. - even if the UE sets bits	only UTRAN FDD and does not support UTRAN TDD or GERAN or 1xRTT or HRPD	Rel-9			Set to true if supporting all functionalities in the feature group
16	Support of - non-ANR related intra-frequency periodical measurement reporting; - non-ANR related inter-frequency periodical measurement reporting, if the UE has set bit number 25 to 1; and - non-ANR related inter-RAT periodical measurement reporting for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively.  NOTE: "non-ANR related periodical measurement reporting" corresponds only to periodical trigger type with purpose set to reportStrongestCells. Event triggered periodical reporting (i.e., event trigger type with reportAmount > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit.		Yes		36.331, Annex B.1	pc_FeatrGrp_16	Corresponding to the Index of Indicator, the leftmost binary bit 16 Set to true if supporting all functionalities in the feature group
17	Support of Intra-frequency ANR features including: - Intra-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells - Intra-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 to 1.	Yes		36.331, Annex B.1	pc_FeatrGrp_17	Corresponding to the Index of Indicator, the leftmost binary bit 17 Set to true if supporting all functionalities in the feature group
18	Support of Inter-frequency ANR features including: - Inter-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells - Inter-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 to 1.	Yes, unless UE only supports band 13		36.331, Annex B.1	pc_FeatrGrp_18	Corresponding to the Index of Indicator, the leftmost binary bit 18 Set to true if supporting all functionalities in the feature group

19	Support of Inter-RAT ANR features including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON for UTRAN, 1xRTT or HRPD, if the UE has set bit number 22, 24 or 26 to 1, respectively - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively	- can only be set to 1 if the UE has set bit number 5 to 1 and the UE has set at least one of the bit number 22, 23, 24 or 26 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_19	Corresponding to the Index of Indicator, the leftmost binary bit 19 Set to true if supporting all functionalities in the feature group
20	If bit number 7 is set to '0': - SRB1 and SRB2 for DCCH + 8x AM DRB  If bit number 7 is set to '1': - SRB1 and SRB2 for DCCH + 8x AM DRB - SRB1 and SRB2 for DCCH + 5x AM DRB + 3x UM DRB  NOTE: UE which indicate support for a DRB combination also support all subsets of the DRB combination. Therefore, release of DRB(s) never results in an unsupported DRB combination.	- Regardless of what bit number 7 and bit number 20 is set to, UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB - Regardless of what bit number 20 is set to, if bit number 7 is set to '1', UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB + 1 x UM DRB	Yes	Rel-8	36.331, Annex B.1	pc_FeatrGrp_20	Corresponding to the Index of Indicator, the leftmost binary bit 20 Set to true if supporting all functionalities in the feature group
21	Support of - Predefined intra- and inter-subframe frequency hopping for PUSCH with N_sb > 1 - Predefined inter-subframe frequency hopping for PUSCH with N_sb > 1			Rel-8	36.331, Annex B.1	pc_FeatrGrp_21	Corresponding to the Index of Indicator, the leftmost binary bit 21 Set to true if supporting all functionalities in the feature group

22	Support of - UTRAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		Yes, if UE supports	Rel-8	36.331, Annex B.1	pc_FeatrGrp_22	Corresponding to the Index of Indicator, the leftmost binary bit 22 Set to true if supporting all functionalities in the feature
23	Support of - GERAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		UTRA	Rel-8	36.331, Annex B.1	pc_FeatrGrp_23	group  Corresponding to the Index of Indicator, the leftmost binary bit 23  Set to true if supporting all functionalities in the feature
24	Support of - 1xRTT measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		Yes, if UE supports	Rel-8	36.331, Annex B.1	pc_FeatrGrp_24	group  Corresponding to the Index of Indicator, the leftmost binary bit 24  Set to true if supporting all functionalities in the feature
	Support of		enhanced 1xRTT CSFB				group
25	Support of - Inter-frequency measurements and reporting in E-UTRA connected mode			Rel-8	36.331, Annex B.1	pc_FeatrGrp_25	Corresponding to the Index of Indicator, the leftmost binary bit 25
	NOTE: The UE setting this bit to 1 and indicating support for FDD and TDD frequency bands in the UE capability signalling implements and is tested for FDD measurements while the UE is in TDD, and for TDD measurements while the UE is in FDD.		Yes, unless UE only supports band 13	Rel-9			Set to true if supporting all functionalities in the feature group
26	Support of - HRPD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode			Rel-8	36.331, Annex B.1	pc_FeatrGrp_26	Corresponding to the Index of Indicator, the leftmost binary bit 26
	L-0 TKA connected mode		Yes, if UE supports HRPD	Rel-9			Set to true if supporting all functionalities in the feature group
27	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH CS handover	- related to SR-VCC - can only be set to 1 if the UE has set bit number 8 to 1 and supports SR-VCC from EUTRA defined in TS 24.008	Yes for FDD, if UE supports VoLTE and UTRA FDD	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_27	Corresponding to the Index of Indicator, the leftmost binary bit 27 Set to true if supporting all functionalities in the feature group
28	Support of	1.5 2 1.000		Rel-9	36.331, Annex	pc_FeatrGrp_28	Corresponding to the Index

	- TTI bundling		Yes for FDD	Rel-10	B.1		of Indicator, the leftmost binary bit 28 Set to true if supporting all functionalities in the feature group
29	Support of - Semi-Persistent Scheduling			Rel-9	36.331, Annex B.1	pc_FeatrGrp_29	Corresponding to the Index of Indicator, the leftmost binary bit 29 Set to true if supporting all functionalities in the feature group
30	Support of - Handover between FDD and TDD	- can only be set to 1 if the UE has set bit number 13 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_30	Corresponding to the Index of Indicator, the leftmost binary bit 30 Set to true if supporting all functionalities in the feature group
31	Support of - Indicates whether the UE supports the mechanisms defined for cells broadcasting multi band information i.e. comprehending multiBandInfoList, disregarding in RRC_CONNECTED the related system information fields and understanding the EARFCN signalling for all bands, that overlap with the bands supported by the UE, and that are defined in the earliest version of TS 36.101 [42] that includes all UE supported bands.	- In this release of the protocol, this bit will never be mandated to be set to 1 - This FGI bit concerns an optional release independent feature (as it was difficult to introduce this from REL-8 when using regular UE capability signalling)		Rel-8	B.1	pc_FeatrGrp_31	Corresponding to the Index of Indicator, the leftmost binary bit 31 Set to true if supporting all functionalities in the feature group
32	Undefined			Rel-8	36.331, Annex B.1	pc_FeatrGrp_32	Corresponding to the Index of Indicator, the leftmost binary bit 32 Set to true if supporting all functionalities in the feature group

## Table A.4.4-2: Feature group indicators 33-64

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
33	Inter-RAT ANR features for UTRAN including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and bit number 22 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_33	Corresponding to the Index of Indicator, the Ieftmost binary bit 33 Set to true if supporting all functionalities in the feature group
34	Inter-RAT ANR features for GERAN including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and bit number 23 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_34	Corresponding to the Index of Indicator, the Ieftmost binary bit 34 Set to true if supporting all functionalities in the feature group
35	Inter-RAT ANR features for 1xRTT including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and bit number 24 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_35	Corresponding to the Index of Indicator, the Ieftmost binary bit 35 Set to true if supporting all functionalities in the feature group
36	Inter-RAT ANR features for HRPD including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and bit number 26 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_36	Corresponding to the Index of Indicator, the Ieftmost binary bit 36 Set to true if supporting all functionalities in the feature group
37	Inter-RAT ANR features for UTRAN TDD including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and bit number 39 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_37	Corresponding to the Index of Indicator, the Ieftmost binary bit 37

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
38	-EUTRA RRC_CONNECTED to UTRA TDD CELL_DCH PS handover, if the UE supports both UTRAN FDD and UTRAN TDD	- can only be set to 1 if the UE has set bit number 39 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_38	Corresponding to the Index of Indicator, the leftmost binary bit 38
39	-UTRAN TDD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode, if the UE supports both UTRAN FDD and UTRAN TDD			Rel-9	36.331, Annex B.1	pc_FeatrGrp_39	Corresponding to the Index of Indicator, the leftmost binary bit 39
40	-EUTRARRC_CONNECTED to UTRATDD CELL_DCH CS handover, if the UE supports both UTRAN FDD and UTRAN TDD	- related to SR- VCC - can only be set to 1 if the UE has set bit number 38 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_40	Corresponding to the Index of Indicator, the leftmost binary bit 40
41	Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD, if the UE supports UTRAN FDD and has set bit number 22 to 1		Yes for FDD, unless UE has set bit number 15 to 1	Rel-9	36.331, Annex B.1	pc_FeatrGrp_41	Corresponding to the Index of Indicator, the leftmost binary bit 41
42	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 42
43	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 43
44	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 44
45	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 45
46	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 46
47	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 47
48	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 48

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
49	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 49
50	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 50
51	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 51
52	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 52
53	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 53
54	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 54
55	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 55
56	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 56
57	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 57
58	Undefined			Rel-9	36.331, Annex B.1	•	Corresponding to the Index of Indicator, the leftmost binary bit 58
59	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 59
60	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 60
61	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 61

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
62	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 62
63	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 63
64	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 64

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## Table A.4.4-3: Feature group indicators 101-132

Item	Additional information	Notes	If indicated "Yes" the feature shall be im plemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
101	- DMRS with OCC (orthogonal cover code) and SGH (sequence group hopping) disabling	- if the UE supports two or more layers for spatial multiplexing in UL, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_101	Corresponding to the Index of Indicator, the leftmost binary bit 101 Set to true if supporting all functionalities in the feature group
102	- Trigger type 1 SRS (aperiodic SRS) transmission (Up to X ports)  NOTE: X = number of supported layers on given band			Rel-10	36.331, Annex C.1	pc_FeatrGrp_102	Corresponding to the Index of Indicator, the leftmost binary bit 102 Set to true if supporting all functionalities in the feature group
103	- PDSCH transmission mode 9 w hen up to 4 CSI reference signal ports are configured	- for Category 8 UEs, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_103	Corresponding to the Index of Indicator, the leftmost binary bit 103 Set to true if supporting all functionalities in the feature group
104	- PDSCH transmission mode 9 for TDD when 8 CSI reference signal ports are configured	- if the UE does not support TDD, this bit is irrelevant (capability signalling exists for FDD for this feature), and this bit shall be set to 0. - for Category 8 UEs, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_104	Corresponding to the Index of Indicator, the leftmost binary bit 104 Set to true if supporting all functionalities in the feature group
105	- Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 – UE selected subband CQI w ithout PMI, w hen PDSCH transmission mode 9 is configured - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 – UE selected subband CQI w ith single PMI, w hen PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured	- this bit can be set to 1 only if indices 2 (Table B.1-1) and 103 are set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_105	Corresponding to the Index of Indicator, the leftmost binary bit 105 Set to true if supporting all functionalities in the feature group
106	- Periodic CQI/PMI/RI/PTI reporting on PUCCH: Mode 2-1  - UE selected subband CQI w ith single PMI, w hen PDSCH transmission mode 9 and 8 CSI reference signal ports are configured	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to 'supported') and if index 2 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_106	Corresponding to the Index of Indicator, the leftmost binary bit 106 Set to true if supporting all functionalities in the feature group

Item	Additional information	Notes	If indicated "Yes" the feature shall be	Release	Ref.	Mnemonic	Comments
			implemented and successfully tested for the				
			corresponding release				
	- Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 – UE selected subband CQI w ithout PMI, w hen PDSCH transmission mode 9 is configured - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI w ith multiple PMI, w hen PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured	- this bit can be set to 1 only if indices 1 (Table B.1-1) and 103 are set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_107	Corresponding to the Index of Indicator, the leftmost binary bit 107 Set to true if supporting all functionalities in the feature group
	- Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI w ith multiple PMI, w hen PDSCH transmission mode 9 and 8 CSI reference signal ports are configured	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 w ith 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to 'supported') and if index 1 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_108	Corresponding to the Index of Indicator, the leftmost binary bit 108 Set to true if supporting all functionalities in the feature group
109	- Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 1	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 w ith 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to 'supported').		Rel-10	36.331, Annex C.1	pc_FeatrGrp_109	Corresponding to the Index of Indicator, the leftmost binary bit 109 Set to true if supporting all functionalities in the feature group
	- Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 2	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 w ith 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to 'supported').		Rel-10	36.331, Annex C.1	pc_FeatrGrp_110	Corresponding to the Index of Indicator, the leftmost binary bit 110 Set to true if supporting all functionalities in the feature group
111	- Measurement reporting trigger Event A6	- this bit can be set to 1 only if the UE supports carrier aggregation.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_111	Corresponding to the Index of Indicator, the leftmost binary bit 111 Set to true if supporting all functionalities in the feature group
112	- SCell addition within the Handover to EUTRA procedure	- this bit can be set to 1 only if the UE supports carrier aggregation and the Handover to EUTRA procedure.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_112	Corresponding to the Index of Indicator, the leftmost binary bit 112 Set to true if supporting all functionalities in the feature group

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
113	Trigger type 0 SRS (periodic SRS) transmission on X Serving Cells  NOTE: X = number of supported component carriers in a given band combination	- this bit can be set to 1 only if the UE supports carrier aggregation in UL.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_113	Corresponding to the Index of Indicator, the leftmost binary bit 113 Set to true if supporting all functionalities in the feature group
114	- Reporting of both UTRA CPICH RSCP and Ec/N0 in a Measurement Report	- this bit can be set to 1 only if index 22 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_114	Corresponding to the Index of Indicator, the leftmost binary bit 114 Set to true if supporting all functionalities in the feature group
115	- time domain ICIC RLWRRM measurement subframe restriction for the serving cell - time domain ICIC RRM measurement subframe restriction for neighbour cells - time domain ICIC CSI measurement subframe restriction			Rel-10	36.331, Annex C.1	pc_FeatrGrp_115	Corresponding to the Index of Indicator, the leftmost binary bit 115 Set to true if supporting all functionalities in the feature group
116	- Relative transmit phase continuity for spatial multiplexing in UL	- this bit can be set to 1 only if the UE supports two or more layers for spatial multiplexing in UL.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_116	Corresponding to the Index of Indicator, the leftmost binary bit 116 Set to true if supporting all functionalities in the feature group
117	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 117
118	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 118
119	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 119
120	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 120
121	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 121
122	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 122
123	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 123
124	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 124

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
125	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 125
126	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 126
127	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 127
128	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 128
129	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 129
130	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 130
131	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 131
132	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 132

### A.4.5 Additional information

Table A.4.5-1: Additional information

Item	Additional information	Ref.	Release	Mnemonic	Comments
1	Support of CSG	36.331 Annex B.2	Rel-8	pc_CSG_list	
2	Support of intra-frequency SI acquisition for HO	36.306 4.3.11.1	Rel-9	pc_intraFreqSI- AcquisitionForHO	
3	Support of inter-frequency SI acquisition for HO	36.306 4.3.11.2	Rel-9	pc_interFreqSI- AcquisitionForHO	
4	Not support of inter-frequency need for gaps	36.306 4.3.6.1	Rel-8	pc_interFreqNeedF orGaps	
5	Not support of inter-RAT need for gaps	36.306 4.3.6.1	Rel-8	pc_interRAT- NeedForGaps	

## A.4.6 CA Physical Layer Baseline Implementation Capabilities

## A.4.6.1 Intra-band contiguous CA Physical Layer Baseline Implementation Capabilities

Table A.4.6.1-1: Downlink Intra-band contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.6.1-3)

Item	Bandwidth Class	Ref.	Release	Comments
1	DL Intra-band contiguous CABW Class	36.101, 5.6A	FFS	Not used in any
	В	36.331, 6.3.6		valid CA configurations in TS 36.101 yet
2	DL Intra-band contiguous CA BW Class C	36.101, 5.6A 36.331, 6.3.6	Rel-10	

Table A.4.6.1-2: Uplink Intra-band contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.6.1-3)

Item	Bandwidth class	Ref.	Release	Comments
1	UL Intra-band contiguous CABW Class	36.101, 5.6A	FFS	Not used in any
	В	36.331, 6.3.6		valid CA
				configurations in
				TS 36.101 yet
2	UL Intra-band contiguous CABW Class	36.101, 5.6A	Rel-10	
	C	36.331, 6.3.6		

Table A.4.6.1-3: Supported CA configurations for Intra-band contiguous CA

Item / CA Band (Note 1)	Ref.	Release	Supported DL CA Bandwidth Class(es) (Note 2)	Supported UL CA Bandwidth Class(es) (Note 2)	Supported Bandwidth Combination Set(s) (Note 3)
CA_1	36.101, 5.6A 36.331, 6.3.6	Rel-10			
CA_7	36.101, 5.6A 36.331, 6.3.6	Rel-11			
CA_38	36.101, 5.6A 36.331, 6.3.6	Rel-11			
CA_40	36.101, 5.6A 36.331, 6.3.6	Rel-10			
CA_41	36.101, 5.6A 36.331, 6.3.6	Rel-11			

Note 1: Notation used for intra-band CA bands is according to TS 36.101 clause 5.6A.1 (e.g. 'CA\_1' indicates CA configuration on E-UTRA band 1).

Note 2: The capabilities can be supported on a single or multiple band(s). The UE supplier shall indicate in the column "Supported DL CA Bandwidth Class(es)" and column "Supported UL CA Bandwidth Class(es)" the UE supported CA Bandwidth Class(es) in downlink and uplink respectively using CA Bandwidth Class identifiers as per TS 36.101 Table 5.6A-1.

For Rel-10 and Rel-11 CA bands then the only valid choice for Intra-band contiguous CA is 'C' or to leave the entry as blank (nothing stated), where blank means that CA is not supported. E.g. for a UE supporting CA Bandwidth Class C for both uplink and downlink then 'C' is stated in both columns.

Note 3: For some CA Band Combinations, multiple Bandwidth Combination Sets are defined in TS 36.101, table 5.6A.1-2. The UE supplier shall indicate the supported set(s) in column "Supported Bandwidth Combination Set".

## A.4.6.2 Intra-band non-contiguous CA Physical Layer Baseline Implementation Capabilities

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### A.4.6.3 Inter-band CA Physical Layer Baseline Implementation Capabilities

Table A.4.6.3-1: Downlink Inter-band CA Bandwidth Class Combination capabilities (for one or more of the supported CA configurations in Table A.4.6.3-3)

ltem	Bandwidth Class Combination	Ref.	Release	Comments
1	DL Inter-band CA BW Class	36.101, 5.6A	Rel-10	
	Combination A-A	36.331, 6.3.6		

Table A.4.6.3-2: Uplink Inter-band CA Bandwidth Class Combination capabilities (for one or more of the supported CA configurations in Table A.4.6.3-3)

Item	Bandwidth Class Combination	Ref.	Release	Comments
1	UL Inter-band CABW Class	36.101, 5.6A		Not used in any
	Combination A-A	36.331, 6.3.6		valid CA
				configurations in
				TS 36.101 yet

Table A.4.6.3-3: Supported CA configurations for Inter-band CA

Item / CA Band Combination (Note 1)	Ref.	Release	Supported DL CA Bandwidth Class combination(s) (Note 2)	Supported UL CA Bandwidth Class combinations(s) (Note 2)	Supported Bandwidth Combination Set(s) (Note 3)
CA_1-5	36.101, 5.6A 36.331, 6.3.6	Rel-10		N/A	
CA_1-18	36.101, 5.6A	Rel-11		N/A	
CA_1-10	36.331, 6.3.6	1/61-11		IN/A	
CA_1-19	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_1-21	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_2-17	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_2-29	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_3-5	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_3-7	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_3-8	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_3-20	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_4-5	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_4-7	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_4_12	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_4-13	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_4-17	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_4-29	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_5-12	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_5-17	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_7-20	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_8-20	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				
CA_11-18	36.101, 5.6A	Rel-11		N/A	
	36.331, 6.3.6				1

Note 1: Notation used for inter-band CA configurations is according to TS 36.101 clause 5.6A2 (e.g. 'CA\_1\_5' indicates CA configuration on E-UTRA bands 1 and 5).

Note 2: The capabilities can be supported on a single or multiple band(s). The UE supplier shall indicate in the column "Supported DL CA Bandwidth Class combination(s)" and column "Supported UL CA Bandwidth Class combination(s)" the UE supported CA Bandwidth Class combination(s) in downlink and uplink respectively using combination of CA Bandwidth Class identifiers as per TS 36.101 Table 5.6A-1 in the same order as the bands are indicated in the CA Configuration separated by a '-'. For Rel-10 and Rel-11 CA band combinations then the only valid choice for Inter-band CA in downlink is 'A-A' or to leave the entry as blank (nothing stated), where blank means that CA is not supported.

For Rel-10 and Rel-11 CA band combinations then uplink CA is not applicable and column "Supported UL CA Bandwidth Class combination(s)" is marked as 'N/A'. E.g. if UE supports Rel-10 CA band combination CA\_1-5 and the UE supporting CA Bandwidth Class A for both bands in downlink then 'A-A' is stated in the column "Supported DL CA Bandwidth Class combination(s)" and column "Supported UL CA Bandwidth Class combination(s)" is marked as 'N/A'.

Note 3: For some CA Band Combinations, multiple Bandwidth Combination Sets are defined in TS 36.101, table 5.6A1-2. The UE supplier shall indicate the supported set(s) in column "Supported Bandwidth Combination Set".

Note 1: Notation used for inter-band CA configurations is according to TS 36.101 clause 5.6A.2 (e.g. 'CA\_1\_5' indicates CA configuration on E-UTRA bands 1 and 5).

Note 2: The capabilities can be supported on a single or multiple band(s). The UE supplier shall indicate in the column "Supported DL CA Bandwidth Class combination(s)" and column "Supported UL CA Bandwidth Class combination(s)" the UE supported CA Bandwidth Class combination(s) in downlink and uplink respectively using combination of CA Bandwidth Class identifiers as per TS 36.101 Table 5.6A-1 in the same order as the bands are indicated in the CA Configuration separated by a '-'. For Rel-10 and Rel-11 CA band combinations then the only valid choice for Inter-band CA in downlink is 'A-A' or to leave the entry as blank (nothing stated), where blank means that CA is not supported.

For Rel-10 and Rel-11 CA band combinations then uplink CA is not applicable and column "Supported UL CA Bandwidth Class combination(s)" is marked as 'N/A'. E.g. if UE supports Rel-10 CA band combination CA\_1-5 and the UE supporting CA Bandwidth Class A for both bands in downlink then 'A-A' is stated in the column "Supported DL CA Bandwidth Class combination(s)" and column "Supported UL CA Bandwidth Class combination(s)" is marked as 'N/A'.

# Annex B (informative): Change history

Date	TSG#	TSG Doc.	CR	Rev		Old	New
2008-03					Skeleton proposed for RAN5#38 Malaga		0.0.1
2008-06					Updated after RAN5#39bis:	0.0.1	0.1.0
					- Editorial update and alignment with 36.523-2 - TC included in 36.521-1 and 36.521-3 included		
					- Some Conditions for TC selections introduce		
2008-08							0.2.0
2000 00					- Editorial update in regard to changing spec names, etc.	0.1.1	0.2.0
					- FDD and TDD split (R5-083839)		
					- RRM TC numbers aligned with 36.521-3 v030		
2008-10					Update after RAN5#40bis:	0.2.0	0.3.0
					- Table split in different clauses for Conformance and RRM		
					test cases - Extension of applicability tables to include Additional		
					Information column		
					- Change of applicability of TCs that apply to any E-UTRA		
					device into "R" - recommended		
					- Updated TCs in accordance to 36.521-1 v110 and 36.521-3		
					v040		
2008-11					- Some editorial updates Update After RAN5#41 (R5-055360):	0.3.0	2.0.0
2006-11					- Renamed 8.1.1, added new 8.1.2,	0.3.0	2.0.0
					I- Added new TCs to RRM section Measurement		
					Performance Requirements		
					- Added Table A.4.3-2 with reference to test loop functions in		
					36.509		
					- Some editorial changes		
					Normative References updated     Change RRM TC titles to reflect their applicability to FDD		
					only		
2008-12	RAN#42	RP-080970			Approval of version 2.0.0 at RAN#42, then put to version	2.0.0	8.0.0
					8.0.0.		
2008-01					Editorial corrections.	8.0.0	8.0.1
2009-05	RAN#44	RP-090448	0001		CR to 36.521-2: Applicability changes and additions for RRM	8.0.1	8.1.0
2000 05	DANIMAA	DD 000440	2000		test cases	0.0.4	0.4.0
2009-05 2009-09	RAN#44	RP-090448	0002		LTE-RF: Applicability for Output Pow er Dynamics test cases Correction CR to 36.521-2: Applicability changes to	8.0.1	8.1.0
2009-09	RAN#45	R5-094035	0003	-	introduce additional RRM tests	8.1.0	8.2.0
2009-09	RAN#45	R5-094572	0004	-	Applicability for Output Power Dynamics test cases	8.1.0	8.2.0
2009-09	RAN#45	R5-094710	0005	-	Resubmission-Correction CR to 36.521-2: Applicability	8.1.0	8.2.0
					changes to introduce additional RRM tests		
2009-09	RAN#45	R5-094768	0006	-	Update of RRM Conformance test applicability for SON	8.1.0	8.2.0
2009-09	RAN#45	R5-094999	0007	-	Correction CR to 36.521-2: Applicability changes to RF	8.1.0	8.2.0
2000 42	RAN#46	DE 005540	0000		PDSCH Demodulation tests	8.2.0	0.0.0
2009-12	KAN#46	R5-095519	8000		Correction CR to 36.521-2: Applicability changes to update the Demodulation of PDSCH (FDD) tests based on the CR	8.2.0	8.3.0
					merge results from RAN5#44		
2009-12	RAN#46	R5-095778	0009		Update of RRM Conformance test applicability for RLM in	8.2.0	8.3.0
					DRX test cases		
2009-12	RAN#46	R5-095841	0010	-	CR to 36.521-2: Applicability additions for new RRM (FDD)	8.2.0	8.3.0
					tests		
2010-03	RAN#47	R5-100358	0011	-	CR to 36.521-2 Rel-8 Introduction of Applicability for E-	8.3.0	8.4.0
					UTRAN FDD - FDD Intra Frequency Cell Search with DRX		
2010-03	RAN#47	R5-100561	0012	-	when L3 filtering is used CR to 36.521-2: Update baseline implementation capabilities	8.3.0	8.4.0
2010 03	I V (I W/I T I	100001	0012		with extended LTE1500 operating bands	0.5.0	0.4.0
2010-03	RAN#47	R5-100872	0013	-	CSI: Following up corrections to tests titles and RI clause	8.3.0	8.4.0
					structure		
2010-03	RAN#47	-	-	-	Moved to v9.0.0 with no change	8.4.0	9.0.0
2010-06	RAN#48	R5-103147	0014	-	Adding band 20, 800MHZ in EU to TS36.521-2	9.0.0	9.1.0
2010-06	RAN#48	R5-103757	0015	-	Introduction of feature group indicator in applicability for	9.0.0	9.1.0
2010.00	DA N# 40	DE 101010	0047		RRM test cases	0.4.0	0.2.0
2010-09 2010-09	RAN#49 RAN#49	R5-104246 R5-104264	0017 0018	Ε	CR to 36.521-2 on Correction to cell search Addition of applicability for new RRM test cases	9.1.0 9.1.0	9.2.0
2010-09	10AIN#49	13-104204	0010	Ī	Addition of applicability for flow KKIVI test cases	3.1.0	3.2.0
2010-09	RAN#49	R5-104372	0019	-	Update of Applicability for Demodulation test cases and UE	9.1.0	9.2.0
					implementation Types for UTRA TDD		
2010-09	RAN#49	R5-104840	0020	-	36521-2 General update to add-remove TCs applicability	9.1.0	9.2.0
Ī			1		correct, TC titles and numbers and editorials	1	

Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2010-09	RAN#49	R5-105056	0021	-	Applicability of a new Rel-9 downlink sustained data rate		9.2.0
2010-12	RAN#50	R5-106118	0022	-	performance test cases  CR to 36.521-2: Update baseline implementation capabilities		9.3.0
2011-03	RAN#51	R5-110536	0023		for EUTRA TDD LTE band 41 Defining new bands 42 and 43 (3500MHz)	9.3.0	9.4.0
2011-03	RAN#51	R5-110955	0023	+	CR to 36.521-2: General update to add, remove, and correct	9.3.0	9.4.0
					applicability of RRM TCs		
2011-06	RAN#52	R5-112131	0025	-	Correction to Band 12 frequency range in 36.521-2	9.4.0	9.5.0
2011-06	RAN#52	R5-112212	0026	-	Adding Band 24 to TS 36.521-2	9.4.0	9.5.0
2011-06	RAN#52	R5-112378	0027	-	Update of FGI bit definitions for rel-9	9.4.0	9.5.0
2011-06	RAN#52	R5-112821	0028	-	Add release applicability for spatial multiplexing test cases	9.4.0	9.5.0
2011-06	RAN#52	R5-112857	0029	-	Addition of applicability for new RRM test cases 4.3.4.3 and 8.4.3	9.4.0	9.5.0
2011-06	RAN#52	R5-112865	0030	-	Addition of applicability for new MBMS test cases 10.1 and 10.2	9.4.0	9.5.0
2011-09	RAN#53	R5-113306	0031	-	Adding band 25 to TS36.521-2	9.5.0	9.6.0
2011-09	RAN#53	R5-113625	0033	-	Introduction of applicability of Rel-9 Scenarios	9.5.0	9.6.0
2011-09	RAN#53	R5-113626	0034	_	Introduction of applicability of PDSCH performance tests for low UE categories	9.5.0	9.6.0
2011-09	RAN#53	R5-114025	0035	-	Test Cases 6.2.3 and 6.2.4 Applicability Clarification	9.5.0	9.6.0
2011-09	RAN#53	R5-114070	0036	_	Update baseline implementation capabilities for FDD LTE Band 23 in 36.521-2	9.5.0	9.6.0
2011-09	RAN#53	R5-114074	0037	1-	Applicability for new R9 RRM test cases	9.5.0	9.6.0
2011-09	RAN#53	R5-114096	0038	1-	Missing FGIs in RRM Test Case Applicabilities in 36.521-2	9.5.0	9.6.0
2011-12	RAN#54	R5-115128	0039	1-	Correction the content of A.4.4-1_16 in 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115134	0040	-	Correction to the test case condition of C12 in 3GPP TS 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115186	0041	1_	Adding band 22 (3500MHz FDD) to 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115785	0042	1-	Requirement change in UE spurious emissions for Band 7	9.6.0	9.7.0
2011 12	10 (14/10-1	110 110700	0012		and 38 co-existence (Rel-8 only)	0.0.0	0.7.0
2011-12	RAN#54	R5-115422	0043	-	Update of FGI bit table in 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115813	0044	-	RF: Update of the applicability list	9.6.0	9.7.0
2011-12	RAN#54	-	-	-	Moved to Rel-10 with no change	9.7.0	10.0.0
2012-03	RAN#55	R5-120340	0046	1-	Addition of FGI bit 16 into test cases 9.1.x.x and 9.2.x.x	10.0.0	10.1.0
2012-03	RAN#55	R5-120534	0047	-	Introduction to Applicability for RSRQ for E-UTRA Carrier Aggregation		10.1.0
2012-03	RAN#55	R5-120596	0048	-	Updates to applicability for newly introduced CA feature chapter8 test cases in 36.521-2	10.0.0	10.1.0
2012-03	RAN#55	R5-120811	0049	-	Correction to FGI bits in test case 8.5.2	10.0.0	10.1.0
2012-03	RAN#55	R5-120812	0050	-	Addition of FGI bit 15 into test cases configuring event 1B	10.0.0	10.1.0
2012-03	RAN#55	R5-120832	0051	-	Update of FGI bit table in TS36.521-2	10.0.0	10.1.0
2012-03	RAN#55	R5-120836	0052	-	Introduction to CA Applicability for Transmitter Characteristics tests MPR and ACLR	10.0.0	10.1.0
2012-03	RAN#55	R5-120838	0053	1-	RF/RRM: Applicability for new added RRM test cases	10.0.0	10.1.0
	RAN#55	R5-120840	0054	1-	Applicability for new UL MIMO test case		10.1.0
2012-06	RAN#56	R5-121185	0055	-	Updates to applicability for newly introduced CA feature TDD chapter 8 test cases in 36.521-2		
2012-06	RAN#56	R5-121219	0056	1-	Adding operating band 26 to TS 36.521-2	10.1.0	10.2.0
2012-06	RAN#56	R5-121904	0057	1-	Addition of applicability for E-UTRAN Inter frequency case		10.2.0
					reselection in the existence of non-allowed CSG cell		
2012-06	RAN#56	R5-121965	0058	<b> </b> -	Applicability for new UL MIMO test cases	10.1.0	10.2.0
2012-06	RAN#56	R5-121966	0059	-	Updates to applicability for Transmit timing tests in 36.521-2	10.1.0	10.2.0
2012-06	RAN#56	R5-121967	0060	-	Applicability for new R9 RRM test cases	10.1.0	10.2.0
2012-06	RAN#56	R5-121990	0061	1-	Addition of applicability for CA TCs	10.1.0	10.2.0
2012-09	RAN#57	R5-123093	0062	-	Updates to applicability for Chapter9 absolute and relative RSRP measurement test cases for carrier aggregation.	10.2.0	10.3.0
2012-09	RAN#57	R5-123165	0063	-	Introduction of Applicability for E-UTRAN Event Triggered reporting on deactivated SCell with PCell interruption in non-DRX for CA	10.2.0	10.3.0
2012-09	RAN#57	R5-123169	0064	-	Correction to Applicability for RSRQ for E-UTRA Carrier Aggregation	10.2.0	10.3.0
2012-09	RAN#57	R5-123170	0065	-	Introduction of eDL MIMO to UE service capabilities		10.3.0
2012-09	RAN#57	R5-123533	0066	-	Update of References in 36.521-2 v980 (pointer)	10.2.0	10.3.0
2012-09	RAN#57	R5-123542	0067	-	TS 36.521-2:TDD CA test cases applicability correction	10.2.0	10.3.0
2012-09	RAN#57	R5-123788	0068	-	Clarification of the release of UTRAN-EUTRAN Inter-RAT RRM test cases in 36.521-2	10.2.0	10.3.0
2012-09	RAN#57	R5-123856	0069	1-	Applicability for new RRM test cases	10.2.0	10.3.0
2012-09	RAN#57	R5-123858	0070	1-	Introduction of Applicability for ACS for CA and UE config		
2012-09	RAN#57	R5-123909	0071	-	Tx output powerfor CA TS 36.521-2:New UE categories addition		10.3.0
2012-09	RAN#57		0071	1	Applicability update for test cases in TS36.521-1 with single		10.3.0
2012-09	1C#VIAVI	R5-123942	0072	[	BW requirements not defined for all operating bands, rel-8	10.2.0	10.3.0

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2012-09   RANNES7   RS-123993   0073   Lydate applicability of LL-MMO related corf ormance test   10.2.0   10.3	Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2012-09   RANNF5   RS-123957   0074   TS-36.21-22Applicability for new COI test cases   0.2.0   10.3.	2012-09	RAN#57	R5-123993	0073	-		10.2.0	10.3.0
2017-12   RANNES R5-122530 0076   Removing PG1 bit is from section four RRM Rest cases   10.3.0   10.4.	0040 00	DANUEZ	DE 400007	0074			40.00	4000
2012-12   RANN65   RS-125380   0076		_			-			
2012-12   RANNSS   RS-128833   0077   Correction to Additional Information for RNM-3.4.3   10.3.0   10.4   2012-12   RANNSS   RS-128833   0078   Introduction of Band 27 to TS 38.621-2   10.3.0   10.4   2012-12   RANNSS   RS-128836   0079   Update applicability of UL-MMO related corformance test   10.3.0   10.4   2012-12   RANNSS   RS-128930   0080   Applicability applicability of CA RF 1. tests   10.3.0   10.4   2012-12   RANNSS   RS-128949   0081   Updates to the applicability of CA RF Part formance test   10.3.0   10.4   2012-12   RANNSS   RS-124189   0082   Updates to the applicability of CA RF Part formance tests   10.3.0   10.4   2012-12   RANNSS   RS-124189   0083   Updates to the applicability of CA RF Part formance tests   10.3.0   10.4   2012-12   RANNSS   RS-124189   0083   Updates to the applicability of CA RF Part formance tests   10.3.0   10.4   2012-12   RANNSS   RS-124189   0083   Updates to the applicability of CA RF Part formance tests   10.3.0   10.4   2012-12   RANNSS   RS-124189   0084   Applicability for new RRM CA related TCS   2013-03   RANNSS   RS-130306   0087   Updates to the applicability of CA RF Part formance tests   10.3.0   10.4   2013-03   RANNSS   RS-130306   0087   Updates to the applicability of CA RF Part formance tests   10.3.0   10.4   2013-03   RANNSS   RS-130306   0087   Updates to applicability of RMM CA RELATED   2013-03   RANNSS   RS-130306   0087   Updates to applicability of RMM CA RELATED   2013-03   RANNSS   RS-13045   0090   Updates to the applicability of RMM CA RELATED   2013-03   RANNSS   RS-13045   0090   Updates to the applicability of RMM CA RELATED   2013-04   RANNSS   RS-1303045   0091   Updates to the applicability of RMM CA RELATED   2013-05   RANNSS   RS-130375   0088   Updates to the applicability of RMM CA RELATED   2013-06   RANNSS   RS-130375   0088   Updates to the applicability of RMM CA RELATED   2013-07   RANNSS   RS-130375   0088   Updates to the applicability of RMM CA RELATED   2013-08   RANNSS   RS-130375   0088   Updates to the applicabil					-			
2012-12   RANMS8   RS-125930   0079   Update applicability of UL-MMO related conformance test   10.3.0   10.4					-			
Cases   Case	2012-12	RAN#58	R5-125833	0078	-	Introduction of Band 27 to TS 36.521-2	10.3.0	10.4.0
2012-12   RANM58   RS-126049   0081   Updates to the applicability of CA RF Pt x tests   10.3.0   10.4   2012-12   RANM58   RS-124143   0082   Updates to the applicability of CA RF Pt x tests   10.3.0   10.4   2012-12   RANM58   RS-124169   0084   Updates to the applicability of CA RF Pt x tests   10.3.0   10.4   2013-03   RANM59   RS-130177   0085   Introduction of new rel-10 Reporting of Rt test cases into   10.4.0   10.5   2013-03   RANM59   RS-130306   0087   Updates to applicability of reversible the production of rew rel-10 Reporting of Rt test cases into   10.4.0   10.5   2013-03   RANM59   RS-130306   0087   Updates to applicability of reversible the production of rew rel-10 Reporting of Rt test cases into   10.4.0   10.5   2013-03   RANM59   RS-130306   0087   Updates to applicability of reversible the production of Pt applicability of Reversible to the production of Pt applicability of Reversible to the production of Pt applicability of Rt applicabilities of R	2012-12	RAN#58	R5-125836	0079	-	1 ' ''	10.3.0	10.4.0
2012-12   RANWS8   RS-124138   0082   Updates to the applicability of CA RF Part terms to 10.3.0   10.4   2012-12   RANWS8   RS-124168   0083   Updates to the applicability of CA RF Part terms   10.3.0   10.4   2012-12   RANWS8   RS-124169   0084   Applicability for new RRM CA related Tos   10.3.0   10.4   2013-03   RANWS9   RS-130297   0086   Introduction of new rel-10 Reporting of RI test cases into   10.4.0   10.5   2013-03   RANWS9   RS-130297   0086   Introduction of new rel-10 Reporting of RI test cases into   10.4.0   10.5   2013-03   RANWS9   RS-130297   0086   Introduction of new rel-10 Reporting of RI test cases into   10.4.0   10.5   2013-03   RANWS9   RS-130297   0086   Updates to applicability for newly introduced eCiC feature   10.4.0   10.5   2013-03   RANWS9   RS-130297   0086   Updates to applicability for newly introduced eCiC feature   10.4.0   10.5   2013-03   RANWS9   RS-130802   0090   Correction to PGIDIT test in State   10.4.0   10.5   2013-03   RANWS9   RS-130802   0092   Addition of applicability for RRM ToS 91.7.1 and 91.7.2   10.4.0   10.5   2013-03   RANWS9   RS-130397   0098   Addition of applicability for RRM ToS 91.7.1 and 91.7.2   10.4.0   10.5   2013-03   RANWS9   RS-130397   0098   Addition of applicability for RRM ToS 91.7.1 and 91.7.2   10.4.0   10.5   2013-03   RANWS9   RS-130397   0098   Addition of applicability statement for 6 new eCiC test cases   10.4.0   10.5   2013-03   RANWS9   RS-130397   0089   Updates to CA physical layer baseline implementation   10.5.0   11.0   2013-03   RANWS9   RS-130392   0094   Updates to CA physical layer baseline implementation   10.5.0   11.0   2013-03   RANWS9   RS-130392   0095   Addition of applicability attement for 6 new eCiC test cases   10.4.0   2013-03   RANWS9   RS-130392   0096   Updates to CA physical layer implementation   10.5.0   11.0   2013-06   RANWS9   RS-130392   0096   Updates to CA physical layer baseline implementation   10.5.0   11.0   2013-06   RANWS9   RS-131155   0100   Updates to Test Part Part Part Part Part					-			
2012-12   RANKISS   RS-124168   0083   - Updates to the applicability of CA RF Rx tests   10.3.0   10.4					-			
2012-12 RANKISS RS-124169 0094 - Applicability for new RRM CA related TCs 10.3.0 10.4 10.5 2013-03 RANKISS RS-130297 00965 - Introduction of new rel-10 Reporting of RI test cases into applicability specification of Report Rel Production of Report Rel Production of Report Rel Production of Report Rel Production of Rel Production of Report Rel Production of Rel					-			
2013-03   RANW59   R5-130177   0065   - Introduction of new rel-10 Reporting of Ritest cases into   10.4.0   10.5					-			
applicability specification   applicability				-				
2013-03   RANWES   R5-130306   0087   - Updates to applicability for new y introduced eCIC feature chapter PRM test cases   10.40   10.5					-	applicability specification		
Chapter 9 RRM last cases   Chapter 9 RRM last					-			
2013-03 RAN#59 R5-130802 0092 - Addition of applicability for RRM TCs 9.1.7.1 and 9.1.7.2 100 10.5 2013-03 RAN#59 R5-130807 0093 - Addition of applicability for RRM TCs 9.1.7.1 and 9.1.7.2 100 10.5 2013-03 RAN#59 R5-130807 0093 - Addition of applicability statement for 6 new eC/C test cases 10.4.0 10.5 existence(36.521-2)					-	chapter9 RRM test cases		
2013-03 RAN#59 RS-130807 0092 Addition of applicability for RRM TCS 9.1.7.1 and 9.1.7.2 10.4.0 10.5. 2013-03 RAN#59 RS-130807 0098 Applicability correction to Spurious emission band UE co- oxistence (36.521-2)					-			
Applicability correction to Spurious emission band UE co-					-			
2013-03   RAN#59   RS-130997   0098   Addition of applicability statement for 6 new elCiC test cases   10.4.0   10.5.0   11.0					-	Applicability correction to Spurious emission band UE co-		
2013-03   RAN#59   R5-130375   0088   Updates to CÁ physical layer baseline implementation   10.5.0   11.0   capabilities for CA band 7   2013-03   RAN#59   R5-130379   0089   Updates to CA physical layer baseline implementation   10.5.0   11.0   2013-03   RAN#59   R5-130927   0094   Updates on the supported CA configurations for CA_38,   10.5.0   11.0   2013-03   RAN#59   R5-130928   0095   Addition of CA physical layer implementation capabilities for CA_4-5 and CA_7-20   2013-03   RAN#59   R5-130928   0095   Addition of CA physical layer implementation capabilities for CA_4-5 and CA_4-13   2013-03   RAN#59   R5-130929   0096   Updates of there Band CA combinations CA_3-20 and CA_2-   10.5.0   11.0   2013-03   RAN#59   R5-130930   0097   CA_2-17 and CA_4-17 addition to supported capabilities in 36.521-2   Introduction of new rel-11 Reporting of R1 test cases into applicability specification   10.5.0   11.1   2013-06   RAN#60   R5-131159   0101   Introduction of New rel-11 Reporting of R1 test cases into applicability specification   11.0.0   11.1   2013-06   RAN#60   R5-131444   0103   R2.1.2.1_1 and TC R3.2.1.1_1 in TG R3.2.1.2   1.1   2013-06   RAN#60   R5-131444   0103   Addition of applicability conditions for TG 8.2.1.1.1_1: TC   11.0.0   11.1   2013-06   RAN#60   R5-131712   0105   Corrections of eDL-MIMO applicability of RF conformance   11.0.0   11.1   2013-06   RAN#60   R5-131912   0105   Corrections to Table 4.1-1a "Applicability of RF conformance   11.0.0   11.1   2013-06   RAN#60   R5-131912   0105   Corrections to Table 4.1-1a "Applicability of RF conformance   11.0.0   11.1   2013-06   RAN#60   R5-131912   0105   Corrections to Table 4.1-1a "Applicability of RF conformance   11.0.0   11.1   2013-06   RAN#60   R5-131912   0105   Corrections to Table 4.1-1a "Applicability of RF conformance   11.0.0   11.1   2013-06   RAN#60   R5-131912   0105   Corrections to Table 4.1-1a "Applicability of RF conformance   11.0.0   11.1   2013-06   RAN#60   R5-131914   0107   Addition of applicability for newly i	2013-03	RAN#59	R5-130997	0098	-	, ,	10.4.0	10.5.0
Capabilities for CA band 7   Capabilities for CA band 41   Capabilities for CA band 42   Capabilities for Capabilities for CA band 42   Capabilities for Capability for Capability for Capability for Capability for Capability for Capability for Cap					-			11.0.0
December 2013-03   RAN#59   R5-130927   0094   December 2013-03   RAN#59   R5-130928   0095   Addition of CA physical layer implementation capabilities for CA_3-7 and CA_7-20   CA_4-5 and CA_4-13   CA_4-14   CA_4-1	2013-03	RAN#59	R5-130379	0089	-	capabilities for CA band 7	10.5.0	11.0.0
CA_3-7 and CA_7-20	2013-03	RAN#59	R5-130927	0094	1-	capabilities for CA band 41	10.5.0	11.0.0
CA_4-5 and CA_4-13					<u> </u>	CA_3-7 and CA_7-20		
29   2013-03   RAN#60   R5-131155   0100   -						CA_4-5 and CA_4-13		
36.521-2   2013-06   RAN#60   R5-131155   0100   - Introduction of new rel-11 Reporting of RI test cases into applicability specification   11.0.0   11.1.   2013-06   RAN#60   R5-131159   0101   - Introduction of Maximum Input Level test case for CA (inter- 11.0.0   11.1.   2013-06   RAN#60   R5-131212   0102   - Correction of applicability conditions for TC 8.2.1.1.1_1: TC   11.0.0   11.1.   2013-06   RAN#60   R5-131444   0103   - Addition of applicability for Configured UE transmitted Output   11.0.0   11.1.   2013-06   RAN#60   R5-131525   0104   - Corrections of eDL-MiMO applicability to align with reporting   11.0.0   11.1.   2013-06   RAN#60   R5-131712   0105   - Corrections to Table 4.1-1a "Applicability of RF conformance   11.0.0   11.1.   2013-06   RAN#60   R5-131912   0106   - 36.521-2   Inter-band CA configurations update   11.0.0   11.1.   2013-06   RAN#60   R5-131912   0106   - 36.521-2: Inter-band CA configurations update   11.0.0   11.1.   2013-06   RAN#60   R5-131917   0107   - Addition of applicability for FDD RF TGS 9.3.4.1.1, 9.3.4.2.1,   9.4.1.2.1, 9.4.2.2.1 and TDD RF TCS 9.3.4.1.1, 9.3.4.2.2,   9.4.1.2.2 and 9.4.2.2.2   2013-06   RAN#60   R5-131927   0108   - Updates to applicability for newly introduced elCiC feature   11.0.0   11.1.   2013-06   RAN#60   R5-132013   0109   - 36.521-2 specification clean up   11.0.0   11.1.   2013-06   RAN#60   R5-132013   0109   - 36.521-2 specification clean up   11.0.0   11.1.   2013-06   RAN#60   R5-133115   0110   - Update of FGI tables in TS 36.521-2   11.0.0   11.1.   2013-09   RAN#61   R5-133143   0113   Addition of applicability for rescases 7.3.13 and 7.3.15   11.1.0   11.2.   2013-09   RAN#61   R5-133315   0115   - Applicability for new CA TCs for 20MHz   11.1.0   11.2.   2013-09   RAN#61   R5-133315   0115   - Applicability for some new added CA test cases   11.1.0   11.2.   2013-09   RAN#61   R5-133315   0115   - Applicability for some new added CA test cases   11.1.0   11.2.   2013-09   RAN#61   R5-133387   0116   - CA RRM Corrections to a					ļ	29		
applicability specification   applicability specification   11.0.0   11.1.					-	36.521-2		
band DL CA without UL CA) into applicability specification					-	applicability specification		
8.2.1.2.1_1 and TC 8.3.2.1.1_1 in 36.521-2					-	band DL CA w ithout UL CA) into applicability specification		
Pow er for inter-band CA					-	8.2.1.2.1_1 and TC 8.3.2.1.1_1 in 36.521-2		
Of CSI					-	Pow er for inter-band CA		11.1.0
test cases Conditions" and Table 4.2-1a: Applicability of RRM conformance test cases Conditions  2013-06 RAN#60 R5-131912 0106 - 36.521-2: Inter-band CA configurations update 11.0.0 11.1.  2013-06 RAN#60 R5-131914 0107 - Addition of applicability for FDD RF TCs 9.3.4.1.1, 9.3.4.2.1, 11.0.0 11.1.  2013-06 RAN#60 R5-131927 0108 - Updates to applicability for newly introduced elClC feature chapter9 RRM test cases in 36.521-2  2013-06 RAN#60 R5-132013 0109 - 36.521-2 specification clean up 11.0.0 11.1.  2013-06 RAN#60 R5-132015 0110 - Update of FGI tables in TS 36.521-2 11.0.0 11.1.  2013-06 RAN#60 R5-132111 0111 - Removal of Spurious emission UE co-existence test case 11.0.0 11.1.  2013-09 RAN#61 R5-133125 0112 - editorial correction for RRM test case Condition C46 11.1.0 11.2.  2013-09 RAN#61 R5-133143 0113 - Addition of applicability for test cases 7.3.13 and 7.3.15 11.1.0 11.2.  2013-09 RAN#61 R5-133351 0114 - Addition of Band 31 to 36.521-2 11.0.0 11.2.  2013-09 RAN#61 R5-133350 0117 - CA RF: Applicability for some new added elClC test 11.1.0 11.2.  2013-09 RAN#61 R5-133381 0118 - CA RRM: Corrections to applicability of CA RRM TC-s 11.1.0 11.2.  2013-09 RAN#61 R5-133825 0120 - elClC RF: Applicability for some new added elClC test cases 11.1.0 11.2.  2013-09 RAN#61 R5-133825 0120 - elClC RF: Applicability for some new added elClC test cases 11.1.0 11.2.  2013-09 RAN#61 R5-133825 0120 - elClC RF: Applicability for some new added elClC test cases 11.1.0 11.2.  2013-09 RAN#61 R5-133825 0120 - elClC RF: Applicability for some new added elClC test cases 11.1.0 11.2.  2013-09 RAN#61 R5-133827 0121 - Correction to applicability of TC 8.3.2.1.2, 8.3.2.1.3 and 11.1.0 11.2.					-	of CSI		
2013-06   RAN#60   R5-131912   0106   -   36.521-2: Inter-band CA configurations update   11.0.0   11.1.	2013-06	RAN#60	R5-131712	0105	-	test cases Conditions" and Table 4.2-1a: Applicability of	11.0.0	11.1.0
2013-06	2013-06	RAN#60	R5-131912		1-	36.521-2: Inter-band CA configurations update		
2013-06	2013-06	RAN#60	R5-131914	0107	-	9.4.1.2.1, 9.4.2.2.1 and TDD RF TCs 9.3.4.1.2, 9.3.4.2.2,	11.0.0	11.1.0
2013-06	2013-06	RAN#60	R5-131927	0108	-	Updates to applicability for newly introduced elClC feature	11.0.0	11.1.0
2013-06         RAN#60         R5-132015         0110         -         Update of FGI tables in TS 36.521-2         11.0.0         11.1.           2013-06         RAN#60         R5-132111         0111         -         Removal of Spurious emission UE co-existence test case         11.0.0         11.1.           2013-09         RAN#61         R5-133125         0112         -         editorial correction for RRM test case Condition C46         11.1.0         11.2.           2013-09         RAN#61         R5-133143         0113         -         Addition of applicability for test cases 7.3.13 and 7.3.15         11.1.0         11.2.           2013-09         RAN#61         R5-133351         0114         -         Addition of Band 31 to 36.521-2         11.1.0         11.2.           2013-09         RAN#61         R5-133315         0115         -         Applicability for new CA TCs for 20MHz         11.1.0         11.2.           2013-09         RAN#61         R5-133350         0117         -         CA RF. Applicability for some new added CA test cases         11.1.0         11.2.           2013-09         RAN#61         R5-133816         0119         -         CA RRM: Corrections to applicability of CA RRMTC-s         11.1.0         11.2.           2013-09         RAN#61	2013-06	RAN#60	R5-132013	0109	-		11.0.0	11.1.0
2013-06					1-			
2013-09         RAN#61         R5-133125         0112         -         editorial correction for RRM test case Condition C46         11.1.0         11.2.           2013-09         RAN#61         R5-133143         0113         -         Addition of applicability for test cases 7.3.13 and 7.3.15         11.1.0         11.2.           2013-09         RAN#61         R5-133251         0114         -         Addition of Band 31 to 36.521-2         11.1.0         11.2.           2013-09         RAN#61         R5-133315         0115         -         Applicability for new CA TCs for 20MHz         11.1.0         11.2.           2013-09         RAN#61         R5-133347         0116         -         eICIC RRM: Applicability for some new added cICIC test cases         11.1.0         11.2.           2013-09         RAN#61         R5-133403         0118         -         CA RRM: Corrections to applicability of CA RRMTC-s         11.1.0         11.2.           2013-09         RAN#61         R5-133816         0119         -         Update applicability of test cases required to support         11.1.0         11.2.           2013-09         RAN#61         R5-133825         0120         -         eICIC RF: Applicability for some new added eICIC test cases         11.1.0         11.2.           2013-09					-	Removal of Spurious emission UE co-existence test case		
2013-09         RAN#61         R5-133251         0114         -         Addition of Band 31 to 36.521-2         11.1.0         11.2.           2013-09         RAN#61         R5-133315         0115         -         Applicability for new CA TCs for 20MHz         11.1.0         11.2.           2013-09         RAN#61         R5-133347         0116         -         elClC RRM: Applicability for some new added elClC test cases         11.1.0         11.2.           2013-09         RAN#61         R5-133403         0118         -         CA RRM: Corrections to applicability of CA RRM TC-s         11.1.0         11.2.           2013-09         RAN#61         R5-133816         0119         -         Update applicability of test cases required to support         11.1.0         11.2.           2013-09         RAN#61         R5-133825         0120         -         elClC RF: Applicability for some new added elClC test cases         11.1.0         11.2.           2013-09         RAN#61         R5-133827         0120         -         elClC RF: Applicability for some new added elClC test cases         11.1.0         11.2.           2013-09         RAN#61         R5-133827         0120         -         elClC RF: Applicability for some new added elClC test cases         11.1.0         11.2.	2013-09	RAN#61	R5-133125	0112	1-		11.1.0	11.2.0
2013-09         RAN#61         R5-133315         0115         -         Applicability for new CA TCs for 20MHz         11.1.0         11.2.           2013-09         RAN#61         R5-133347         0116         -         elClC RRM: Applicability for some new added elClC test cases         11.1.0         11.2.           2013-09         RAN#61         R5-133350         0117         -         CA RF: Applicability for some new added CA test cases         11.1.0         11.2.           2013-09         RAN#61         R5-133403         0118         -         CA RRM: Corrections to applicability of CA RRMTC-s         11.1.0         11.2.           2013-09         RAN#61         R5-133816         0119         -         Update applicability of test cases required to support PUSCH 2-2         11.1.0         11.2.           2013-09         RAN#61         R5-133825         0120         -         elClC RF: Applicability for some new added elClC test cases         11.1.0         11.2.           2013-09         RAN#61         R5-133827         0120         -         elClC RF: Applicability for some new added elClC test cases         11.1.0         11.2.           2013-09         RAN#61         R5-133827         0120         -         elClC RF: Applicability for TC 8.3.2.1.2, 8.3.2.1.3 and         11.1.0         11.1.0 <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>					-			
2013-09					-			
2013-09       RAN#61       R5-133350       0117       -       CA RF: Applicability for some new added CA test cases       11.1.0       11.2.         2013-09       RAN#61       R5-133403       0118       -       CA RRM: Corrections to applicability of CA RRMTC-s       11.1.0       11.2.         2013-09       RAN#61       R5-133816       0119       -       Update applicability of test cases required to support PUSCH 2-2       11.1.0       11.2.         2013-09       RAN#61       R5-133825       0120       -       elClC RF: Applicability for some new added elClC test cases       11.1.0       11.2.         2013-09       RAN#61       R5-133827       0121       -       Correction to applicability of TC 8.3.2.1.2, 8.3.2.1.3 and       11.1.0       11.2.					-  -	eICIC RRM: Applicability for some new added eICIC test		11.2.0 11.2.0
2013-09       RAN#61       R5-133403       0118       -       CA RRM: Corrections to applicability of CA RRMTC-s       11.1.0       11.2.         2013-09       RAN#61       R5-133816       0119       -       Update applicability of test cases required to support PUSCH 2-2       11.1.0       11.2.         2013-09       RAN#61       R5-133825       0120       -       elClC RF: Applicability for some new added elClC test cases       11.1.0       11.2.         2013-09       RAN#61       R5-133827       0121       -       Correction to applicability of TC 8.3.2.1.2, 8.3.2.1.3 and       11.1.0       11.2.	2012.00	DV ится	DE 1222E0	0447	1		11 1 0	11 2 2
2013-09       RAN#61       R5-133816       0119       -       Update applicability of test cases required to support PUSCH 2-2       11.1.0       11.2.         2013-09       RAN#61       R5-133825       0120       -       elClC RF: Applicability for some new added elClC test cases       11.1.0       11.2.         2013-09       RAN#61       R5-133827       0121       -       Correction to applicability of TC 8.3.2.1.2, 8.3.2.1.3 and       11.1.0       11.2.					1			
2013-09         RAN#61         R5-133825         0120         -         elClC RF: Applicability for some new added elClC test cases         11.1.0         11.2.           2013-09         RAN#61         R5-133827         0121         -         Correction to applicability of TC 8.3.2.1.2, 8.3.2.1.3 and         11.1.0         11.2.					-	Update applicability of test cases required to support		
2013-09 RAN#61 R5-133827 0121 - Correction to applicability of TC 8.3.2.1.2, 8.3.2.1.3 and 11.1.0 11.2.	2013-09	RAN#61	R5-133825	0120	1-		11 1 0	11.2.0
					-			

Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2013-09	RAN#61	R5-133839	0122	-	Correction of applicability for FDD RF TCs 9.3.4.1.1,	11.1.0	11.2.0
					9.3.4.2.1 & 9.4.1.2.1and TDD RF TCs 9.3.4.1.2, 9.3.4.2.2 &		
					9.4.1.2.2		
2013-09	RAN#61	R5-133840	0123	-	Addition of applicabilities for inter-freq/RAT without	11.1.0	11.2.0
					measurement gaps TCs		
2013-09	RAN#61	R5-133841	0124	-	Correction to the reference information of chapter 2.	11.1.0	11.2.0
2013-09	RAN#61	R5-133849	0125	-	RRM: Update of applicability of some test ceses	11.1.0	11.2.0
2013-09	RAN#61	R5-133868	0126	-	· · · · · · · · · · · · · · · · · · ·	11.1.0	11.2.0
					Set for Carrier Aggregation in ICS proforma tables		
2013-09	RAN#61	R5-133872	0127	-	Update RF performance test applicability table for LTE B14	11.1.0	11.2.0
					public safety high power UE		
2013-09	RAN#61	R5-133875	0128	-	Addition of applicability for new TCs 8.3.1.1.3 and 8.3.2.1.4	11.1.0	11.2.0
2013-09	RAN#61	R5-133891	0129	-	Applicability addition for CA test cases	11.1.0	11.2.0
2013-09	RAN#61	R5-133897	0130	-	Addition of the applicability of TC7.3.14 & TC7.3.16	11.1.0	11.2.0