

### SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500042209

Rev.: 01 Page: 1 of 73

# **Appendix C**

### Calibration certificate

1. Dipole
CLA-13-SN 1032
D835V2-SN 4d161
D2450V2-SN 922
D5GHzV2-SN 1174
D6.5GHzV2-SN 1102
2. DAE
DAE4ip-SN 1245
DAE4ip-SN 1826
3. Probe
EX3DV4-SN 3923
EX3DV4-SN 7735

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### Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Client

SGS-CN (Auden)

Certificate No: CLA13-1032\_Feb23

## **CALIBRATION CERTIFICATE**

Object

CLA13 - SN: 1032

Calibration procedure(s)

QA CAL-15.v10

Calibration Procedure for SAR Validation Sources below 700 MHz

Calibration date:

February 09, 2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature  $(22 \pm 3)^{\circ}$ C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-22 (No. 217-03525/03524)	Apr-23
Power sensor NRP-Z91	SN: 103244	04-Apr-22 (No. 217-03524)	Apr-23
Power sensor NRP-Z91	SN: 103245	04-Apr-22 (No. 217-03525)	Apr-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	04-Apr-22 (No. 217-03527)	Apr-23
Type-N mismatch combination	SN: 310982 / 06327	04-Apr-22 (No. 217-03528)	Apr-23
Reference Probe EX3DV4	SN: 3877	06-Jan-23 (No. EX3-3877_Jan23)	Jan-24
DAE4	SN: 654	27-Jan-23 (No. DAE4-654_Jan23)	Jan-24
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter NRP2	SN: 107193	08-Nov-21 (in house check Dec-22)	In house check: Dec-24
Power sensor NRP-Z91	SN: 100922	15-Dec-09 (in house check Dec-22)	In house check; Dec-24
Power sensor NRP-Z91	SN: 100418	01-Jan-04 (in house check Dec-22)	In house check: Dec-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check; Jun-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
	Name	Function	Signature
Calibrated by:	Aidonia Georgiadou	Laboratory Technician	ASI
Approved by:	Sven Kühn	Technical Manager	
1)	O O O O O O O O O O O O O O O O O O O	i comical Manager	5.4

Issued: February 10, 2023

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### **Calibration Laboratory of**

Schmid & Partner **Engineering AG** Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst S Service suisse d'étalonnage C Servizio svizzero di taratura S

**Swiss Calibration Service** 

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL

tissue simulating liquid

ConvF

N/A

sensitivity in TSL / NORM x,v,z not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Additional Documentation:

c) DASY System Handbook

#### **Methods Applied and Interpretation of Parameters:**

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

### **Measurement Conditions**

DASY system configuration, as far as not given on page 1

DASY Version	DASY5	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	EL!4 Flat Phantom	Shell thickness: 2 ± 0.2 mm
EUT Positioning	Touch Position	
Zoom Scan Resolution	dx, dy = 4.0  mm, dz = 1.4  mm	Graded Ratio = 1.4 (Z direction)
Frequency	13 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	55.0	0.75 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	52.9 ± 6 %	0.72 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	1 W input power	0.411 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	0.421 W/kg ± 18.4 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	1 W input power	0.260 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	0.266 W/kg ± 18.0 % (k=2)

## Appendix (Additional assessments outside the scope of SCS 0108)

### **Antenna Parameters with Head TSL**

Impedance, transformed to feed point	$51.0 \Omega + 6.8 j\Omega$
Return Loss	- 23.4 dB

#### **Additional EUT Data**

Manufactured by	SPEAG

#### **DASY5 Validation Report for Head TSL**

Date: 09.02.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: CLA13; Type: CLA13; Serial: CLA13 - SN: 1032

Communication System: UID 0 - CW; Frequency: 13 MHz

Medium parameters used: f = 13 MHz;  $\sigma = 0.72$  S/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### DASY52 Configuration:

• Probe: EX3DV4 - SN3877; ConvF(15.33, 15.33, 15.33) @ 13 MHz; Calibrated: 06.01.2023

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn654; Calibrated: 27.01.2023

Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2034

• DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

## CLA Calibration for HSL-LF Tissue/CLA-13, touch configuration, Pin=1W/Zoom Scan,

dist=1.4mm (8x10x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 27.28 V/m; Power Drift = -0.02 dB

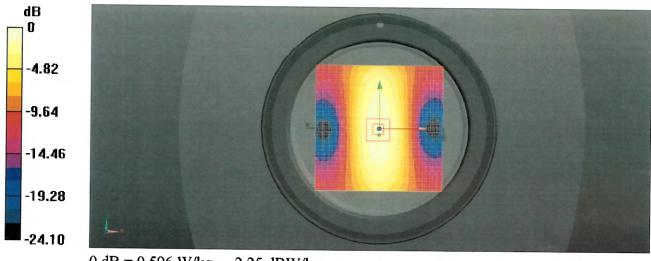
Peak SAR (extrapolated) = 0.804 W/kg

#### SAR(1 g) = 0.411 W/kg; SAR(10 g) = 0.260 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 14 mm)

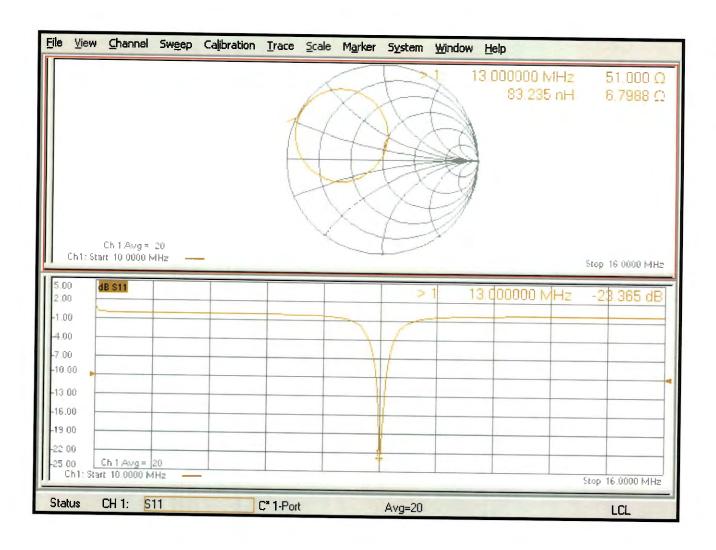
Ratio of SAR at M2 to SAR at M1 = 79.2%

Maximum value of SAR (measured) = 0.596 W/kg



0 dB = 0.596 W/kg = -2.25 dBW/kg

### Impedance Measurement Plot for Head TSL









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Client SGS

Certificate No: J23Z60379

#### **CALIBRATION CERTIFICATE**

Object D835V2 - SN: 4d161

Calibration Procedure(s)

FF-Z11-003-01

Calibration Procedures for dipole validation kits

Calibration date:

August 25, 2023

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	22-Sep-22 (CTTL, No.J22X09561)	Sep-23
Power sensor NRP8S	104291	22-Sep-22 (CTTL, No.J22X09561)	Sep-23
Reference Probe EX3DV4	SN 3617	31-Mar-23(CTTL-SPEAG,No.Z23-60161)	Mar-24
DAE4	SN 1556	11-Jan-23(CTTL-SPEAG,No.Z23-60034)	Jan-24
Secondary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	05-Jan-23 (CTTL, No. J23X00107)	Jan-24
NetworkAnalyzer E5071C	MY46110673	10-Jan-23 (CTTL, No. J23X00104)	Jan-24

Name Function Signature

Calibrated by: Zhao Jing SAR Test Engineer

Reviewed by: Lin Hao SAR Test Engineer

Approved by: Qi Dianyuan SAR Project Leader

Issued: September 1, 2023

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Certificate No: J23Z60379 Page 1 of 6



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Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORMx,y,z N/A not applicable or not measured

#### **Calibration is Performed According to the Following Standards:**

a) IEC/IEEE 62209-1528, "Measurement Procedure for The Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices- Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020

b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### **Additional Documentation:**

c) DASY4/5 System Handbook

#### **Methods Applied and Interpretation of Parameters:**

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

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#### **Measurement Conditions**

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz ± 1 MHz	

Head TSL parameters
The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.1 ± 6 %	0.90 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C		

#### **SAR result with Head TSL**

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.40 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.60 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.54 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	6.16 W/kg ± 18.7 % ( <i>k</i> =2)

Certificate No: J23Z60379 Page 3 of 6





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#### Appendix (Additional assessments outside the scope of CNAS L0570)

#### **Antenna Parameters with Head TSL**

Impedance, transformed to feed point	50.3Ω- 3.44jΩ	
Return Loss	- 29.3dB	

#### **General Antenna Parameters and Design**

Electrical Delay (one direction)	1.342 ns	

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

#### **Additional EUT Data**

Manufac	tured by	SPEAG

Certificate No: J23Z60379 Page 4 of 6





Date: 2023-08-25

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#### **DASY5 Validation Report for Head TSL**

Test Laboratory: CTTL, Beijing, China

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d161** 

Communication System: UID 0, CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz;  $\sigma = 0.904$  S/m;  $\varepsilon_r = 42.11$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 SN3617; ConvF(10.1, 10.1, 10.1) @ 835 MHz; Calibrated: 2023-03-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2023-01-11
- Phantom: MFP V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

**Dipole Calibration**/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 57.83 V/m; Power Drift = -0.02 dB

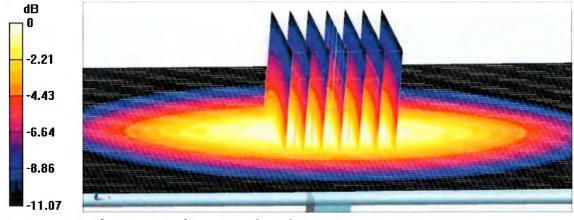
Peak SAR (extrapolated) = 3.89 W/kg

SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.54 W/kg

Smallest distance from peaks to all points 3 dB below = 17.5 mm

Ratio of SAR at M2 to SAR at M1 = 62.1%

Maximum value of SAR (measured) = 3.34 W/kg



0 dB = 3.34 W/kg = 5.24 dBW/kg

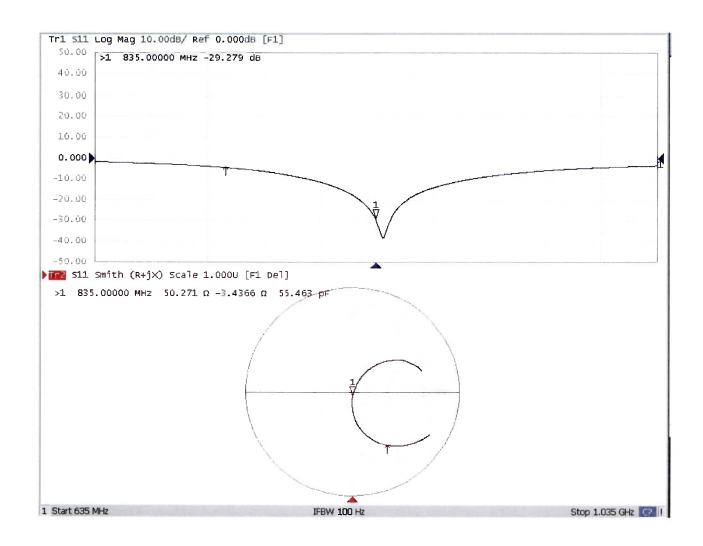
Certificate No: J23Z60379 Page 5 of 6



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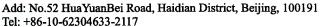
E-mail: emf@caict.ac.cn http://www.caict.ac.cn

#### Impedance Measurement Plot for Head TSL









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http://www.caict.ac.cn

Certificate No: J23Z60380 SGS Client

#### CALIBRATION CERTIFICATE

Object D2450V2 - SN: 922

Calibration Procedure(s)

FF-Z11-003-01

Calibration Procedures for dipole validation kits

Calibration date: August 28, 2023

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	22-Sep-22 (CTTL, No.J22X09561)	Sep-23
Power sensor NRP8S	104291	22-Sep-22 (CTTL, No.J22X09561)	Sep-23
Reference Probe EX3DV4	SN 3617	31-Mar-23(CTTL-SPEAG,No.Z23-60161)	Mar-24
DAE4	SN 1556	11-Jan-23(CTTL-SPEAG,No.Z23-60034)	Jan-24
Secondary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	05-Jan-23 (CTTL, No. J23X00107)	Jan-24
NetworkAnalyzer E5071C	MY46110673	10-Jan-23 (CTTL, No. J23X00104)	Jan-24

Name Function

Calibrated by: Zhao Jing **SAR Test Engineer** 

Reviewed by: Lin Hao **SAR Test Engineer** 

Approved by: Qi Dianyuan **SAR Project Leader** 

Issued: September 1, 2023

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Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORMx,y,z N/A not applicable or not measured

#### **Calibration is Performed According to the Following Standards:**

a) IEC/IEEE 62209-1528, "Measurement Procedure for The Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices- Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020

b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### **Additional Documentation:**

c) DASY4/5 System Handbook

#### **Methods Applied and Interpretation of Parameters:**

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
  point exactly below the center marking of the flat phantom section, with the arms oriented
  parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
  positioned under the liquid filled phantom. The impedance stated is transformed from the
  measurement at the SMA connector to the feed point. The Return Loss ensures low
  reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
   No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

Certificate No: J23Z60380 Page 2 of 6





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#### **Measurement Conditions**

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.0 ± 6 %	1.84 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C		

#### **SAR result with Head TSL**

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.3 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.7 W/kg ± 18.8 % ( <i>k</i> =2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	6.19 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.6 W/kg ± 18.7 % (k=2)

Certificate No: J23Z60380 Page 3 of 6





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#### Appendix (Additional assessments outside the scope of CNAS L0570)

#### **Antenna Parameters with Head TSL**

Impedance, transformed to feed point	53.2Ω+ 5.45jΩ	
Return Loss	- 24.3dB	

#### **General Antenna Parameters and Design**

Electrical Delay (one direction)	1.068 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

#### **Additional EUT Data**

Manufactured by	SPEAG

Certificate No: J23Z60380 Page 4 of 6





Date: 2023-08-28

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#### **DASY5 Validation Report for Head TSL**

Test Laboratory: CTTL, Beijing, China

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 922** 

Communication System: UID 0, CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz;  $\sigma = 1.835$  S/m;  $\varepsilon_r = 39.03$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY5** Configuration:

- Probe: EX3DV4 SN3617; ConvF(7.68, 7.68, 7.68) @ 2450 MHz; Calibrated: 2023-03-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2023-01-11
- Phantom: MFP V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

**Dipole Calibration**/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.74 V/m; Power Drift = -0.03 dB

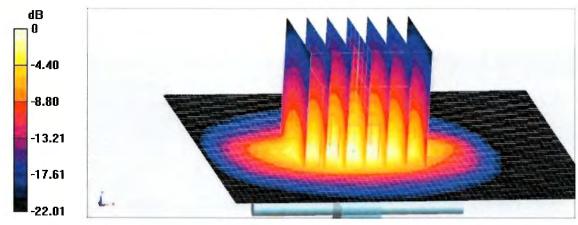
Peak SAR (extrapolated) = 27.6 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.19 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 49.1%

Maximum value of SAR (measured) = 22.1 W/kg



0 dB = 22.1 W/kq = 13.44 dBW/kq

Certificate No: J23Z60380 Page 5 of 6

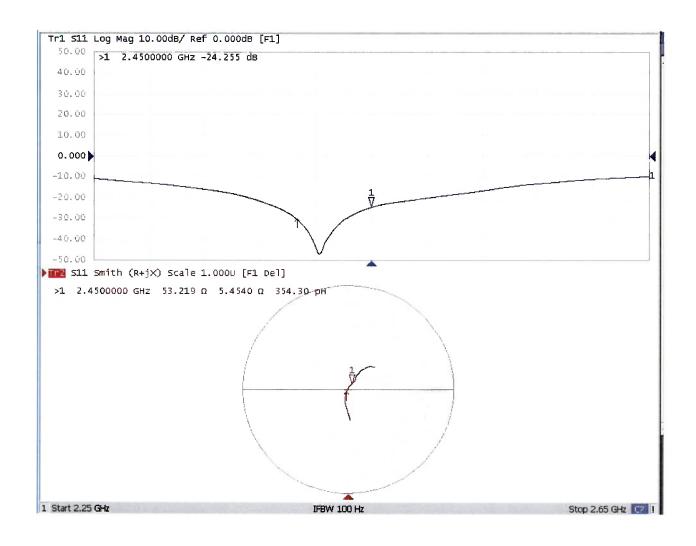




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E-mail: cttl@chinattl.com http://www.caict.ac.cn

#### Impedance Measurement Plot for Head TSL









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Client

SGS

Certificate No:

J23Z60381

### **CALIBRATION CERTIFICATE**

Object D5GHzV2 - SN: 1174

Calibration Procedure(s)

FF-Z11-003-01

Calibration Procedures for dipole validation kits

Calibration date:

August 23, 2023

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	22-Sep-22 (CTTL, No.J22X09561)	Sep-23
Power sensor NRP8S	104291	22-Sep-22 (CTTL, No.J22X09561)	Sep-23
Reference Probe EX3DV4	SN 3617	31-Mar-23(CTTL-SPEAG,No.Z23-60161)	Mar-24
DAE4	SN 1556	11-Jan-23(CTTL-SPEAG,No.Z23-60034)	Jan-24
Secondary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	05-Jan-23 (CTTL, No. J23X00107)	Jan-24
NetworkAnalyzer E5071C	MY46110673	10-Jan-23 (CTTL, No. J23X00104)	Jan-24

Name Function

Zhao Jing SAR Test Engineer

Reviewed by: Lin Hao SAR Test Engineer

Approved by: Qi Dianyuan SAR Project Leader

Issued: August 30, 2023

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Certificate No: J23Z60381

Calibrated by:

Page 1 of 8





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Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORMx,y,z N/A not applicable or not measured

#### **Calibration is Performed According to the Following Standards:**

a) IEC/IEEE 62209-1528, "Measurement Procedure for The Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices- Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020

b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### **Additional Documentation:**

c) DASY4/5 System Handbook

#### **Methods Applied and Interpretation of Parameters:**

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
  point exactly below the center marking of the flat phantom section, with the arms oriented
  parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

Certificate No: J23Z60381 Page 2 of 8





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#### **Measurement Conditions**

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz	

#### **Head TSL parameters at 5250MHz**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.71 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.2 ± 6 %	4.63 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C		

#### SAR result with Head TSL at 5250MHz

SAR averaged over 1 $cm^3$ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.76 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.2 W/kg ± 24.4 % ( <i>k</i> =2)
SAR averaged over 10 $cm^3$ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.20 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.9 W/kg ± 24.2 % (k=2)

Certificate No: J23Z60381 Page 3 of 8





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**Head TSL parameters at 5600MHz** 

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.6 ± 6 %	5.00 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C		

#### SAR result with Head TSL at 5600MHz

SAR averaged over 1 $cm^3$ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.16 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.1 W/kg ± 24.4 % ( <i>k</i> =2)
SAR averaged over 10 $cm^3$ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.30 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.8 W/kg ± 24.2 % (k=2)

#### **Head TSL parameters at 5750MHz**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.4 ± 6 %	5.16 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C		

#### SAR result with Head TSL at 5750MHz

SAR averaged over 1 $cm^3$ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.83 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.8 W/kg ± 24.4 % ( <i>k</i> =2)
SAR averaged over 10 $cm^3$ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.19 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.7 W/kg ± 24.2 % (k=2)

Certificate No: J23Z60381 Page 4 of 8





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#### Appendix (Additional assessments outside the scope of CNAS L0570)

#### Antenna Parameters with Head TSL at 5250MHz

Impedance, transformed to feed point	47.3Ω- 7.19jΩ	
Return Loss	- 22.1dB	

#### Antenna Parameters with Head TSL at 5600MHz

Impedance, transformed to feed point	53.9Ω- 2.14jΩ	
Return Loss	- 27.4dB	

#### Antenna Parameters with Head TSL at 5750MHz

Impedance, transformed to feed point	53.2Ω- 5.17jΩ
Return Loss	- 24.6dB

#### **General Antenna Parameters and Design**

Electrical Delay (one direction) 1.111 ns
---

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

#### **Additional EUT Data**

EAG
Ρ

Certificate No: J23Z60381 Page 5 of 8



Date: 2023-08-23

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#### **DASY5 Validation Report for Head TSL**

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1174

Communication System: CW; Frequency: 5250 MHz, Frequency: 5600 MHz,

Frequency: 5750 MHz

Medium parameters used: f = 5250 MHz;  $\sigma$  = 4.627 S/m;  $\epsilon_r$  = 35.17;  $\rho$  = 1000 kg/m³ Medium parameters used: f = 5600 MHz;  $\sigma$  = 5 S/m;  $\epsilon_r$  = 34.58;  $\rho$  = 1000 kg/m³ Medium parameters used: f = 5750 MHz;  $\sigma$  = 5.162 S/m;  $\epsilon_r$  = 34.36;  $\rho$  = 1000 kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY5 Configuration:** 

- Probe: EX3DV4 SN3617; ConvF(5.5, 5.5, 5.5) @ 5250 MHz; ConvF(5.01, 5.01, 5.01) @ 5600 MHz; ConvF(5.15, 5.15, 5.15) @ 5750 MHz; Calibrated: 2023-03-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2023-01-11
- Phantom: MFP\_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

#### Dipole Calibration /Pin=100mW, d=10mm, f=5250 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 61.33 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 30.9 W/kg

SAR(1 g) = 7.76 W/kg; SAR(10 g) = 2.2 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 65.5%

Maximum value of SAR (measured) = 18.1 W/kg

#### Dipole Calibration /Pin=100mW, d=10mm, f=5600 MHz/Zoom Scan.

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 62.15 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 35.2 W/kg

SAR(1 g) = 8.16 W/kg; SAR(10 g) = 2.3 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 62.9%

Maximum value of SAR (measured) = 19.6 W/kg

Certificate No: J23Z60381 Page 6 of 8





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Dipole Calibration /Pin=100mW, d=10mm, f=5750 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 59.71 V/m; Power Drift = -0.04 dB

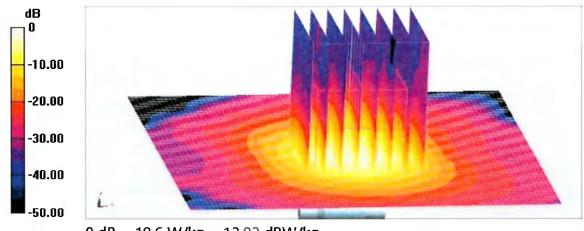
Peak SAR (extrapolated) = 35.1 W/kg

SAR(1 g) = 7.83 W/kg; SAR(10 g) = 2.19 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 61.7%

Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.6 W/kg = 12.92 dBW/kg

Certificate No: J23Z60381 Page 7 of 8

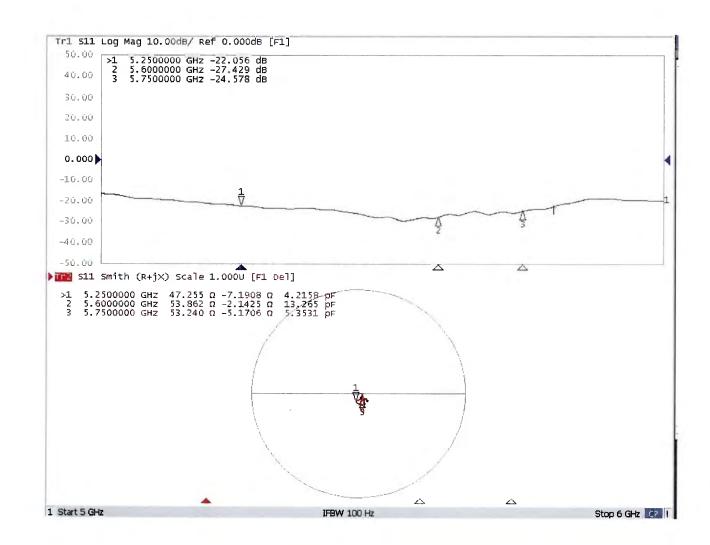




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#### Impedance Measurement Plot for Head TSL



#### Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Client

Shenzhen

Certificate No.

D6.5GHzV2-1102\_Sep23

### CALIBRATION CERTIFICATE

Object

D6.5GHzV2 - SN:1102

Calibration procedure(s)

QA CAL-22.v7

Calibration Procedure for SAR Validation Sources between 3-10 GHz

Calibration date:

**Primary Standards** 

September 11, 2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

ID#

	1.00	our bate (ocitinoste 140.)	Scrieduled Calibration
Power sensor R&S NRP33T	SN: 100967	03-Apr-23 (No. 217-03806)	Apr-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Mismatch combination	SN: 84224 / 360D	03-Apr-23 (No. 217-03812)	Apr-24
Reference Probe EX3DV4	SN: 7405	12-Jun-23 (No. EX3-7405_Jun23)	Jun-24
DAE4	SN: 908	03-Jul-23 (No. DAE4-908_Jul23)	Jul-24
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
RF generator Anapico APSIN20G	SN: 827	18-Dec-18 (in house check Dec-21)	In house check: Dec-23
Power sensor NRP-Z23	SN: 100169	10-Jan-19 (in house check Nov-22)	In house check: Nov-23
Power sensor NRP-18T	SN: 100950	28-Sep-22 (in house check Nov-22)	In house check: Nov-23
Network Analyzer Keysight E5063A	SN:MY54504221	31-Oct-19 (in house check Oct-22)	In house check: Oct-25
	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	+ 100
Approved by:	Sven Kühn	Technical Manager	

Cal Date (Certificate No.)

Issued: September 12, 2023

Scheduled Calibration

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Certificate No: D6.5GHzV2-1102\_Sep23

Page 1 of 6

#### Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





C

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Glossary:

TSL

tissue simulating liquid

ConvF N/A

sensitivity in TSL / NORM x,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range Of 4 MHz To 10 GHz)", October 2020.

#### Additional Documentation:

b) DASY System Handbook

#### Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point
  exactly below the center marking of the flat phantom section, with the arms oriented parallel to the
  body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.
- The absorbed power density (APD): The absorbed power density is evaluated according to Samaras T, Christ A, Kuster N, "Compliance assessment of the epithelial or absorbed power density above 6 GHz using SAR measurement systems", Bioelectromagnetics, 2021 (submitted). The additional evaluation uncertainty of 0.55 dB (rectangular distribution) is considered.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

### **Measurement Conditions**

DASY system configuration, as far as not given on page 1.

DASY Version	DASY6	V16.2	
Extrapolation	Advanced Extrapolation		
Phantom	Modular Flat Phantom		
Distance Dipole Center - TSL	5 mm	with Spacer	
Zoom Scan Resolution	dx, dy = 3.4  mm, dz = 1.4  mm	Graded Ratio = 1.4 (Z direction)	
Frequency	6500 MHz ± 1 MHz		

#### **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	34.5	6.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	33.7 ± 6 %	6.01 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

#### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	29.2 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	291 W/kg ± 24.7 % (k=2)

SAR averaged over 8 cm <sup>3</sup> (8 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.63 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	65.9 W/kg ± 24.4 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	5.42 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	53.9 W/kg ± 24.4 % (k=2)

Certificate No: D6.5GHzV2-1102\_Sep23

### Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.3 Ω - 3.2 jΩ
Return Loss	- 29.9 dB

#### **APD (Absorbed Power Density)**

APD averaged over 1 cm <sup>2</sup>	Condition	The state of the s
APD measured	100 mW input power	290 W/m <sup>2</sup>
APD measured	normalized to 1W	2900 W/m <sup>2</sup> ± 29.2 % (k=2)

APD averaged over 4 cm <sup>2</sup>	condition	
APD measured	100 mW input power	133 W/m²
APD measured	normalized to 1W	1330 W/m <sup>2</sup> ± 28.9 % (k=2)

<sup>\*</sup>The reported APD values have been derived using the psSAR1g and psSAR8g.

#### **General Antenna Parameters and Design**

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

#### **Additional EUT Data**

Manufactured by	SPEAG
	SFLAG

Certificate No: D6.5GHzV2-1102\_Sep23

### **DASY6 Validation Report for Head TSL**

Measurement Report for D6.5GHz-1102, UID 0 -, Channel 6500 (6500.0MHz)

**Device under Test Properties** 

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D6.5GHz	10.0 x 10.0 x 10.0	SN: 1102	2

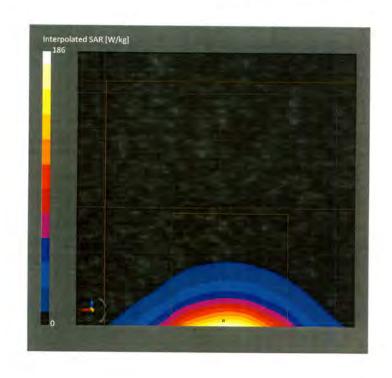
**Exposure Conditions** 

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz]	Conversion Factor	TSL Cond. [S/m]	TSL Permittivity
Flat, HSL	5.00	Band	CW,	6500	5.50	6.01	33.7

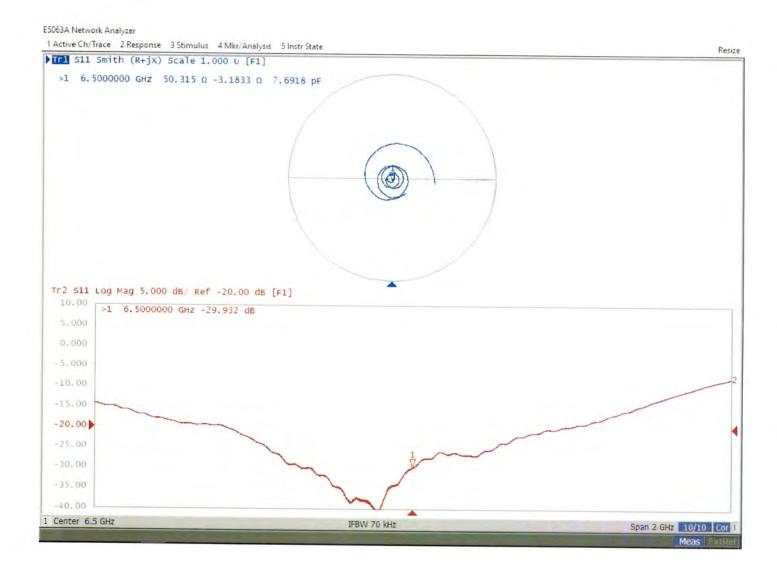
**Hardware Setup** 

Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date	
MFP V8.0 Center - 1182	HBBL600-10000V6	EX3DV4 - SN7405, 2023-06-12	DAE4 Sn908, 2023-07-03	

			The state of the s
Scan Setup		Measurement Results	
	Zoom Scan		Zoom Scan
Grid Extents [mm]	22.0 x 22.0 x 22.0	Date	2023-09-11, 12:05
Grid Steps [mm]	3.4 x 3.4 x 1.4	psSAR1g [W/Kg]	29.2
Sensor Surface [mm]	1.4	psSAR8g [W/Kg]	6.63
Graded Grid	Yes	psSAR10g [W/Kg]	5.42
Grading Ratio	1.4	Power Drift [dB]	0.00
MAIA	N/A	Power Scaling	Disabled
Surface Detection	VMS + 6p	Scaling Factor [dB]	2.543.754
Scan Method	Measured	TSL Correction	No correction
		M2/M1 [%]	50.6
		Dist 3dB Peak [mm]	4.8



### Impedance Measurement Plot for Head TSL



Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 www.speag.swiss, info@speag.swiss

### IMPORTANT NOTICE

#### **USAGE OF THE DAE4**

The DAE unit is a delicate, high precision instrument and requires careful treatment by the user. There are no serviceable parts inside the DAE. Special attention shall be given to the following points:

**Battery Exchange**: The battery cover of the DAE4 unit is closed using a screw, over tightening the screw may cause the threads inside the DAE to wear out.

**Shipping of the DAE**: Before shipping the DAE to SPEAG for calibration, remove the batteries and pack the DAE in an antistatic bag. This antistatic bag shall then be packed into a larger box or container which protects the DAE from impacts during transportation. The package shall be marked to indicate that a fragile instrument is inside.

**E-Stop Failures**: Touch detection may be malfunctioning due to broken magnets in the E-stop. Rough handling of the E-stop may lead to damage of these magnets. Touch and collision errors are often caused by dust and dirt accumulated in the E-stop. To prevent E-stop failure, the customer shall always mount the probe to the DAE carefully and keep the DAE unit in a non-dusty environment if not used for measurements.

**Repair**: Minor repairs are performed at no extra cost during the calibration. However, SPEAG reserves the right to charge for any repair especially if rough unprofessional handling caused the defect.

**DASY Configuration Files:** Since the exact values of the DAE input resistances, as measured during the calibration procedure of a DAE unit, are not used by the DASY software, a nominal value of 200 MOhm is given in the corresponding configuration file.

#### Important Note:

Warranty and calibration is void if the DAE unit is disassembled partly or fully by the Customer.

#### Important Note:

Never attempt to grease or oil the E-stop assembly. Cleaning and readjusting of the Estop assembly is allowed by certified SPEAG personnel only and is part of the calibration procedure.

#### Important Note:

To prevent damage of the DAE probe connector pins, use great care when installing the probe to the DAE. Carefully connect the probe with the connector notch oriented in the mating position. Avoid any rotational movement of the probe body versus the DAE while turning the locking nut of the connector. The same care shall be used when disconnecting the probe from the DAE.

### Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client

SGS

Suzhou

Certificate No: DAE4-1245 Jun24

Accreditation No.: SCS 0108

### **CALIBRATION CERTIFICATE**

Object DAE4 - SD 000 D04 BM - SN: 1245

Calibration procedure(s) QA CAL-06.v30

Calibration procedure for the data acquisition electronics (DAE)

Calibration date: June 05, 2024

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	29-Aug-23 (No:37421)	Aug-24
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	23-Jan-24 (in house check)	In house check: Jan-25

Calibrated by:

Name

Function

ed by:

Adrian Gehring

Laboratory Technician

Approved by:

Sven Kühn

Technical Manager

Issued: June 5, 2024

Signature

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Certificate No: DAE4-1245\_Jun24

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### Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Service suisse d'étalonnage
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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

#### Glossary

DAE data acquisition electronics

Connector angle information used in DASY system to align probe sensor X to the robot

coordinate system.

#### Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
  - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
  - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
  - Input Offset Measurement. Output voltage and statistical results over a large number of zero voltage measurements.
  - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
  - Power consumption: Typical value for information. Supply currents in various operating modes.

#### Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	200021.76	-6.64	-0.00
Channel X	+ Input	19998:90	1.12	0.01
Channel X	- Input	-20014.1.1	0.84	-0.00
Channel Y	+ Input	200022.16	-8.78	-0.00
Channel Y	+ Input	19997.31	-0.51	-0.00
Channel Y	- Input	-20015:30	-0.34	0.00
Channel Z	+ Input	200023.26	-4.74	-0.00
Channel Z	+ Input	19997.08	-0.68	-0.00
Channel Z	- Input	-20015.26	-0.32	0.00

Low Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	1992,50	-0.27	-0.01
Channel X	+ Input	192.12	-0.68	-0:35
Channel X	- Input	-208.18	-1.10	0.53
Channel Y	+ Input	1992.55	-0.29	-0.01
Channel Y	+ input	191.39	-1.42	-0.74
Channel Y	- Input	-208.71	-1.61	0.78
Channel Z	+ Input	1992.72	-0.13	-0.01
Channel Z	+ Input	191.64	-1.16	-0.60
Channel Z	- Input	-208.54	-1.44	0.69

## 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-0.69	-2.64
	- 200	2.24	1.32
Channel Y	200	2.46	2.01
	- 200	-4.01	-4.66
Channel Z	200	-0.89	-0.83
	- 200	0.39	-0.87

## 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	4.48	-2.79
Channel Y	200	9.14	-	6.01
Channel Z	200	9.55	7.04	-

#### 4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16190	15515
Channel Y	16177	15470
Channel Z	15859	16592

#### 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec Input  $10M\Omega$ 

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	0.18	-1,29	2.82	0.43
Channel Y	-0.56	-1.40	2.92	0.45
Channel Z	-0,45	-1.49	0.25	0.30

#### 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values Alarm Level (VDC)	
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0:01:	+6:	+14
Supply (- Vcc)	-0.01	-8	-9



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Certificate No: 25J02Z000067

# CALIBRATION CERTIFICATE

Object DAE4ip - SN: 1826

Calibration Procedure(s) FF-Z11-002-01

Calibration Procedure for the Data Acquisition Electronics

(DAEx)

Calibration date: February 17, 2025

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3) ™ and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Process Calibrator 753	1971018	11-Jun-24 (CTTL, No.24J02X005147)	Jun-25

Name Function Signature

Calibrated by:

Yu Zongying

SAR Test Engineer

Reviewed by:

Lin Jun

SAR Test Engineer

Approved by:

Qi Dianyuan SAR Project Leader

Issued: February 17, 2025

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Glossary:

DAE data acquisition electronics

Connector angle information used in DASY system to align probe sensor X

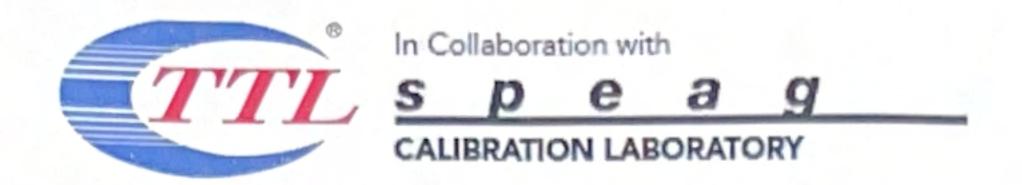
to the robot coordinate system.

Methods Applied and Interpretation of Parameters:

 DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.

- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The report provide only calibration results for DAE, it does not contain other performance test results.

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# DC Voltage Measurement

A/D - Converter Resolution nominal

High Range:  $1LSB = 6.1 \mu V$ , full range = -100...+300 mVLow Range: 1LSB = 61 nV, full range = -1.....+3 mVDASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Υ	Z
High Range	404.997 ± 0.15% (k=2)	405.006 ± 0.15% (k=2)	404.943 ± 0.15% (k=2)
Low Range	3.96234 ± 0.7% (k=2)	3.98075 ± 0.7% (k=2)	3.98717 ± 0.7% (k=2)

# **Connector Angle**

Connector Angle to be used in DASY system 44° ± 1°	Connector Angle to be used in DASY system	44° ± 1°
--	---	----------

Certificate No: 25J02Z000067 Page 3 of 3



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Client

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Certificate No: 24J02Z000779

#### **CALIBRATION CERTIFICATE**

Object

EX3DV4 - SN: 3923

Calibration Procedure(s)

FF-Z11-004-02

Calibration Procedures for Dosimetric E-field Probes

Calibration date:

November 04, 2024

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)<sup>∞</sup>C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID# Ca	al Date(Calibrated by, Certificate No.) Scheduled Ca	libration
Power Meter NRP2	106277	18-Oct-24(CTTL, No.24J02X101459)	Oct-25
Power sensor NRP8S	104291	18-Oct-24(CTTL, No.24J02X101459)	Oct-25
Power sensor NRP8S	104292	18-Oct-24(CTTL, No.24J02X101459)	Oct-25
Reference 10dBAttenuator	18N50W-10dB	19-Jan-23(CTTL, No.J23X00212)	Jan-25
Reference 20dBAttenuator	18N50W-20dB	19-Jan-23(CTTL, No.J23X00211)	Jan-25
Reference Probe EX3DV4	SN 7307	28-May-24(SPEAG, No.EX-7307_May24)	May-25
DAE4	SN 771	19-Jan-24(SPEAG, No.DAE4-771_Jan24)	Jan-25
Secondary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	cheduled Calibration
SignalGenerator MG3700A	6201052605	12-Jun-24(CTTL, No.24J02X005419)	Jun-25
SignalGenerator APSIN26G	181-33A6D0700-1	1959 26-Mar-24(CTTL, No.24J02X002468)	Mar-25
Network Analyzer E5071C	MY46110673	25-Dec-23(CTTL, No.J23X13425)	Dec-24
Reference 10dBAttenuator	BT0520	11-May-23(CTTL, No.J23X04061)	May-25
Reference 20dBAttenuator	BT0267	11-May-23(CTTL, No.J23X04062)	May-25
OCP DAK-3.5	SN 1040	22-Jan-24(SPEAG, No.OCP-DAK3.5-1040_Jan	24) Jan-25

Name Function Signature
Calibrated by:

Yu Zongying SAR Test Engineer

Reviewed by:

Lin Jun SAR Test Engineer

Approved by:

Qi Dianyuan

Issued: November 07, 2024

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Page 1 of 9

SAR Project Leader





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Glossary:

TSL tissue simulating liquid NORMx,y,z sensitivity in free space

ConvF sensitivity in TSL / NORMx,y,z

DCP diode compression point

CF crest factor (1/duty\_cycle) of the RF signal A,B,C,D modulation dependent linearization parameters

Polarization Φ rotation around probe axis

Polarization  $\theta$   $\theta$  rotation around an axis that is in the plane normal to probe axis (at measurement center), i

 $\theta$ =0 is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016

c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization θ=0 (f≤900MHz in TEM-cell; f>1800MHz: waveguide).
   NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z\* frequency\_response (see Frequency Response Chart). This
  linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the
  frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- Ax,y,z; Bx,y,z; Cx,y,z;VRx,y,z:A,B,C are numerical linearization parameters assessed based on the
  data of power sweep for specific modulation signal. The parameters do not depend on frequency nor
  media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f≤800MHz) and inside waveguide using analytical field distributions based on power measurements for f >800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z\* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from±50MHz to±100MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3923

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc ( <i>k</i> =2)
Norm(μV/(V/m)²) <sup>A</sup>	0.57	0.58	0.48	±10.0%
DCP(mV) <sup>B</sup>	102.9	106.1	103.8	

## **Modulation Calibration Parameters**

UID	Communication		A	В	С	D	VR	Unc <sup>E</sup>
	System Name		dB	dB√μV		dB	mV	( <i>k</i> =2)
0	CW	X	0.0	0.0	1.0	0.00	191.4	±2.0%
		Y	0.0	0.0	1.0		196.7	
		Z	0.0	0.0	1.0		173.3	

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

A The uncertainties of Norm X, Y, Z do not affect the E2-field uncertainty inside TSL (see Page 4).

<sup>&</sup>lt;sup>B</sup> Numerical linearization parameter: uncertainty not required.

<sup>&</sup>lt;sup>E</sup> Uncertainly is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3923

## Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unct. ( <i>k</i> =2)
750	41.9	0.89	10.59	10.59	10.59	0.12	1.26	±12.7%
835	41.5	0.90	10.19	10.19	10.19	0.16	1.21	±12.7%
1750	40.1	1.37	8.80	8.80	8.80	0.20	0.99	±12.7%
1900	40.0	1.40	8.45	8.45	8.45	0.18	1.09	±12.7%
2100	39.8	1.49	8.42	8.42	8.42	0.20	1.30	±12.7%
2300	39.5	1.67	8.24	8.24	8.24	0.48	0.70	±12.7%
2450	39.2	1.80	7.98	7.98	7.98	0.49	0.71	±12.7%
2600	39.0	1.96	7.79	7.79	7.79	0.53	0.68	±12.7%
3300	38.2	2.71	7.36	7.36	7.36	0.33	1.01	±13.9%
3500	37.9	2.91	7.21	7.21	7.21	0.42	0.91	±13.9%
3700	37.7	3.12	6.80	6.80	6.80	0.30	1.40	±13.9%
3900	37.5	3.32	6.77	6.77	6.77	0.35	1.45	±13.9%
4100	37.2	3.53	6.88	6.88	6.88	0.40	1.15	±13.9%
4400	36.9	3.84	6.67	6.67	6.67	0.30	1.52	±13.9%
4600	36.7	4,04	6.57	6.57	6.57	0.35	1.45	±13.9%
4800	36.4	4.25	6.47	6.47	6.47	0.35	1.50	±13.9%
4950	36.3	4.40	6.20	6.20	6.20	0.35	1.50	±13.9%
5250	35.9	4.71	5.60	5.60	5.60	0.40	1.50	±13.9%
5600	35.5	5.07	5.00	5.00	5.00	0.45	1.40	±13.9%
5800	35.3	5.27	5.06	5.06	5.06	0.45	1.40	±13.9%

<sup>&</sup>lt;sup>c</sup> Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>&</sup>lt;sup>F</sup> At frequency up to 6 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

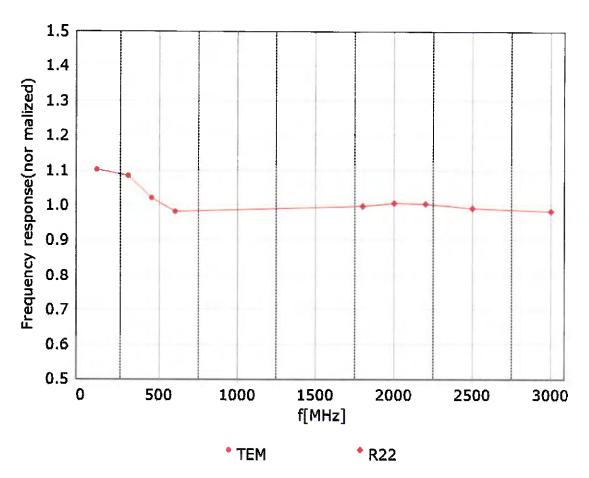
<sup>&</sup>lt;sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than  $\pm$  1% for frequencies below 3 GHz and below  $\pm$  2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



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# Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ±7.4% (k=2)





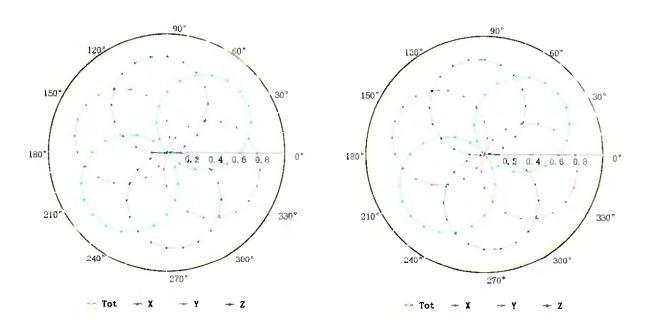
Tel: +86-10-62304633-2117

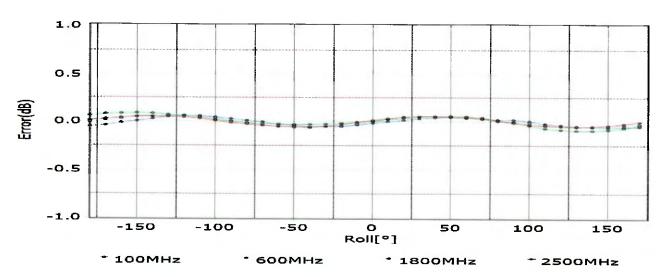
E-mail: emf@caict.ac.cn http://www.caict.ac.cn

# Receiving Pattern (Φ), θ=0°

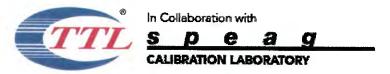
## f=600 MHz, TEM

## f=1800 MHz, R22





Uncertainty of Axial Isotropy Assessment: ±1.2% (k=2)

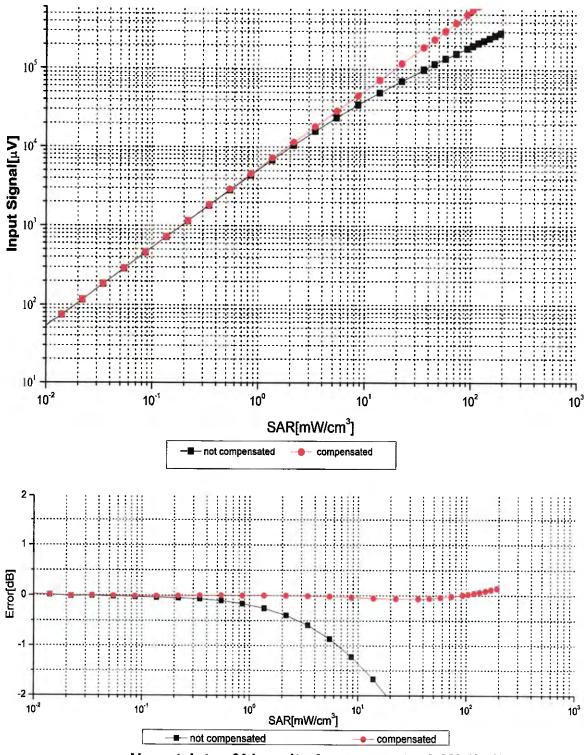




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# Dynamic Range f(SAR<sub>head</sub>) (TEM cell, f = 900 MHz)



Uncertainty of Linearity Assessment: ±0.9% (k=2)





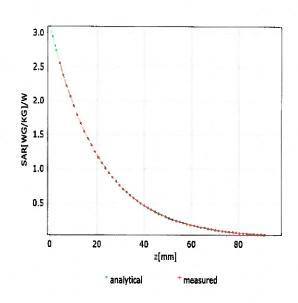
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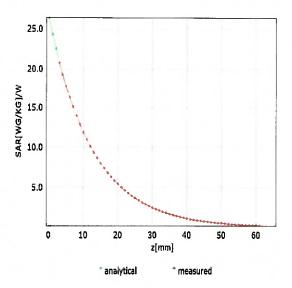
E-mail: emf@caict.ac.cn http://www.caict.ac.cn

## **Conversion Factor Assessment**

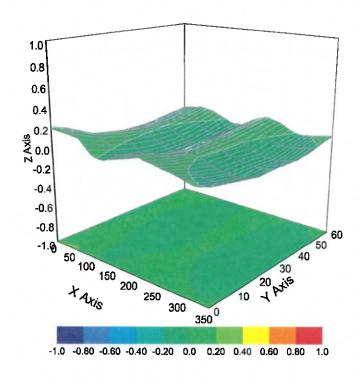
f=750 MHz,WGLS R9(H\_convF)

f=1750 MHz,WGLS R22(H\_convF)





# **Deviation from Isotropy in Liquid**



Uncertainty of Spherical Isotropy Assessment: ±3.2% (k=2)





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## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3923

## **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	1.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
Tip Diameter	2.5mm
Probe Tip to Sensor X Calibration Point	1mm
Probe Tip to Sensor Y Calibration Point	1mm
Probe Tip to Sensor Z Calibration Point	1mm
Recommended Measurement Distance from Surface	1.4mm

## Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service sulsse d'étalonnage
Servizio svizzero di taratura

S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client

SGS Suzhou Certificate No.

EX-7735 Jan25

#### **CALIBRATION CERTIFICATE**

Object

EX3DV4 - SN:7735

Calibration procedure(s)

QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,

QA CAL-25.v8

Calibration procedure for dosimetric E-field probes

Calibration date

January 29, 2025

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3) ℃ and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Calibration Date (Certificate No.)	Sched. Cal
Power Sensor R&S NRP-33T	SN: 100967	28-Mar-24 (No. 217-04038)	Mar-25
Short [S6019i] + Attenuator [S6020i]	SN: L1119	26-Mar-24 (No. 217-04048)	Mar-25
OCP DAK-12	SN: 1016	24-Sept-24 (No. OCP-DAK12-1016 Sep24)	Sep-25
OCP DAK-3.5	SN: 1249	23-Sept-24 (No OCP-DAK3.5-1249_Sep24)	Sep-25
Reference Probe EX3DV4	SN: 7349	10-Jan-25 (No EX3-7349 Jan25)	Jan-26
DAE4	SN: 1301	07-Nov-24 (No. DAE4-1301_Nov24)	Nov-25

Secondary Standards	ID	Check Date (in house)	Sched, Check
ACAP 2020 Calibration Box	SN: L1404	30-Sept-24 (No. Report_ACAP2020E-Cave_20240930s)	Sep-25

Name

Function

Calibrated by

Aidonia Georgiadou

Laboratory Technician

Approved by

Sven Kühn

Technical Manager

Issued: January 29, 2025

Signature

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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#### Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerlscher Kalibrierdienst

C Service suisse d'étalonnage Servizio svizzero di taratura

S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

#### Glossary

TSL tissue simulating liquid NORMx,y,z sensitivity in free space

ConvF sensitivity in TSL / NORMx,y,z
DCP diode compression point

CF crest factor (1/duty\_cycle) of the RF signal A, B, C, D modulation dependent linearization parameters

Polarization  $\varphi$   $\varphi$  rotation around probe axis

Polarization  $\theta$   $\theta$  rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e.,  $\theta = 0$  is

normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

#### Calibration is Performed According to the Following Standards:

 a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.

b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization ∂ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- · PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C, D are numerical linearization parameters assessed based on the data of
  power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum
  calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis).
   No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

EX3DV4 - SN:7735

#### Parameters of Probe: EX3DV4 - SN:7735

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm $(\mu V/(V/m)^2)$ A	0.49	0.51	0.49	±10.1%
DCP (mV) B	103.9	104.4	104.5	±4.7%

#### Calibration Results for Modulation Response

ÜID	Communication System Name		A dB	$dB\sqrt{\mu V}$	С	dB	VR mV	Max dev.	Max Unc <sup>E</sup> k = 2
0	CW	X	0.00	0.00	1.00	0.00	149.7	±1.6%	±4.7%
		Y	0.00	0.00	1.00		136.8		
		Z	0.00	0.00	1.00		122.1	1.54.0	
10352	Pulse Waveform (200Hz, 10%)	X	1.38	60.06	6.18	10.00	60.0	±2.3%	±9.6%
		Y	1.67	61.39	6.96		60.0		
		Z	1.73	61.56	6.87		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	0.79	60.00	5.00	6.99	80.0	±2.1%	±9.6%
		Y	0.79	60.00	5.10	100	80.0		
		Z	0.79	60.00	4.98	8.84	80.0		
10354	Pulse Waveform (200Hz, 40%)	X	0.05	127.26	0.35	3.98	95.0	±2.5%	±9.6%
		Y	0.01	125.39	1.82		95.0	1	
		Z	20.00	72.00	72.00 7.00		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	7.26	159.92	28.82	2.22	120.0	±1.7%	±9.6%
		Y	18.91	126.62	12.14	14	120.0		1
		Z	8.91	123.36	4.46		120.0		
10387	QPSK Waveform, 1 MHz	X	0.65	66.32	14.49	1.00	150.0	±3.2%	±9.6%
		Y	0.53	63.45	12.35		150.0		1
		Z	0.64	67.76	15.41		150.0	2 6 24	
10388	QPSK Waveform, 10 MHz	X	1.49	67.57	15.13	0.00	150.0	±1.0%	±9.6%
		Y	1.31	65.77	13.84		150.0	2.20	20.078
		Z	1.53	69.00	15.47		150.0		
10396	64-QAM Waveform, 100 kHz	X	1.63	63.98	15.92	3.01	150.0	±1.1%	±9.6%
		Y	1.64	63.91	15.35		150.0	3000	2000
		Z	1.70	64.89	16.17		150.0		JIY . B.
10399	64-OAM Waveform, 40 MHz	X	2.89	66.66	15.50	0.00	150.0	±1.3%	±9.6%
		Y	2.80	66.20	15.06		150.0	-	
		Z	2.90	67.35	15.77	Py 0	150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.00	66.74	15.80	0.00	150.0	±2.2%	±9.6%
		Y	3.76	65.89	15 21		150.0	/O	
		Z	3.82	66.82	15.71		150.0	100	100

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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A The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6).

B Linearization parameter uncertainty for maximum specified field strength.

E Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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## Parameters of Probe: EX3DV4 - SN:7735

#### **Sensor Model Parameters**

	C1 fF	C2 fF	α V <sup>-1</sup>	T1 ms V <sup>-2</sup>	T2 ms V <sup>-1</sup>	T3 ms	T4 V <sup>-2</sup>	T5 V <sup>-1</sup>	Т6
x	9.8	71.55	33.94	2.52	0.00	4.90	0.30	0.00	1.00
у	9,4	68.11	33.45	2.10	0.00	4.92	0.50	0.00	1,00
Z.	8.1	58.35	33.22	2.37	0.00	4.90	0.41	0.00	1.00

#### Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-43.2°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

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## Parameters of Probe: EX3DV4 - SN:7735

#### Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc <sup>H</sup> (k = 2)
13	55.0	0.75	13.68	13.51	13.73	0.00	1.25	±13.3%
150	52.3	0.76	11.58	11.44	11.63	0.00	1.25	±13.3%
450	43.5	0.87	10.11	10.11	10.11	0.16	1.30	±13.3%
750	41.9	0.89	8.46	8.81	8.65	0.35	1.27	±11.0%
850	41.5	0.92	8.27	8.61	8.46	0.35	1.27	±11.0%
1450	40.5	1,20	7.80	8.11	7.97	0.35	1.27	±11.0%
1750	40.1	1.37	7.63	7.94	7.80	0.35	1.27	±11.0%
1900	40.0	1.40	7.46	7.77	7.63	0.35	1.27	±11.0%
2100	39.8	1.49	7.23	7.52	7.39	0.35	1.27	±11.0%
2300	39.5	1.67	7.05	7.34	7.21	0.35	1.27	±11.0%
2450	39.2	1,80	6.91	7.19	7.06	0.35	1.27	±11.0%
2600	39.0	1.96	6.78	7.05	6.93	0.35	1.27	±11.0%
3300	38.2	2.71	6.50	6.77	6.65	0.35	1.27	±13,1%
3500	37.9	2.91	6.46	6.73	6.61	0.35	1.27	±13.1%
3700	37.7	3.12	6.39	6.65	6.53	0.35	1.27	±13.1%
3900	37.5	3.32	6.32	6.57	6.46	0.35	1.27	±13.1%
4100	37.2	3.53	6.24	6.49	6.38	0.35	1.27	±13.1%
4200	37.1	3.63	6.19	6.45	6.33	0.35	1.27	±13.1%
4400	36.9	3.84	6.15	6.40	6.29	0.35	1.27	±13.1%
4600	36.7	4.04	6.12	6.37	6,26	0.35	1.27	±13.1%
4800	36.4	4.25	6.08	6.33	6.21	0.35	1.27	±13.1%
4950	36.3	4.40	5.92	6.16	6.05	0.33	1.27	±13.1%
5200	36.0	4.66	5.57	5.79	5.69	0.31	1.27	±13.1%
5300	35.9	4.76	5.39	5.61	5.51	0.30	1.27	±13.1%
5500	35.6	4.96	5.08	5.29	5.19	0.29	1.27	±13.1%
5600	35.5	5.07	5.14	5.35	5.25	0.28	1.27	±13.1%
5800	35.3	5.27	5.07	5.28	5.19	0.26	1.27	±13.1%

C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40. 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF

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<sup>40, 50</sup> and 70 MHz for Conver assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of Conver assessed at 6 MHz is 4–9 MHz, and Conver assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10% if SAR correction is applied.

G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less

than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the

H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. This is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.

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#### Parameters of Probe: EX3DV4 - SN:7735

#### Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc <sup>H</sup> (k = 2)
6500	34,5	6.07	5,40	5.62	5.52	0.20	1.27	±18.6%

C Frequency validity at 6.5 GHz is -600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration

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Frequency validity at 6.3 GHz is -600/F700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the HSS of the Convertible and trequency band.

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than ±10% from the target values (typically better than ±6%) and are valid for TSL with deviations of up to ±10%.

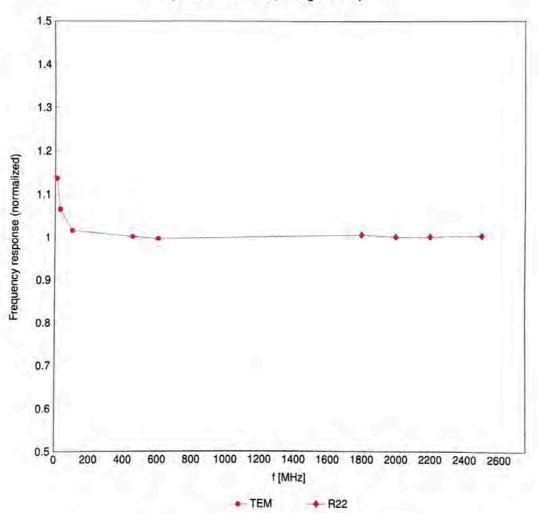
G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3-6 GHz; and below ±4% for frequencies between 6-10 GHz at any distance larger than half the probe tip diameter from the boundary.

H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. This is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.

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## Frequency Response of E-Field

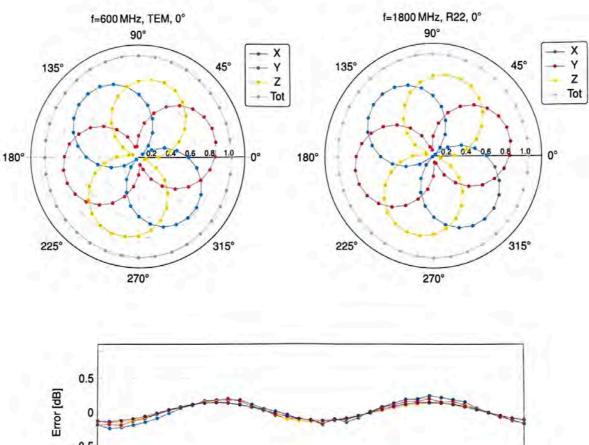
(TEM-Cell:Ifi110 EXX, Waveguide:R22)



Uncertainty of Frequency Response of E-field: ±6.3% (k=2)

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## Receiving Pattern ( $\phi$ ), $\theta = 0^{\circ}$



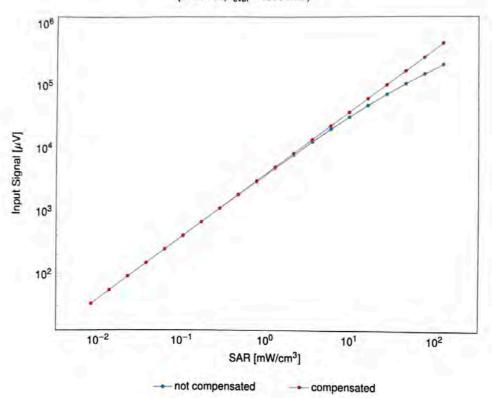
-0.5120 180 240 300 360 60 0 Roll [°] - 600 MHz - 1800 MHz - 2500 MHz - 100 MHz

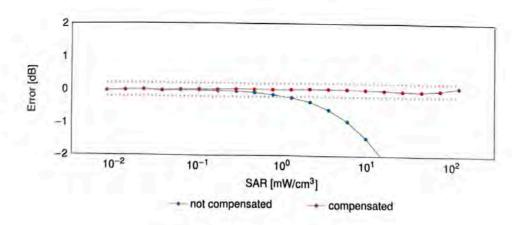
Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

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## Dynamic Range f(SAR<sub>head</sub>)

(TEM cell, f<sub>eval</sub> = 1900 MHz)

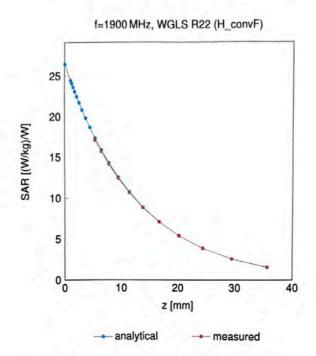




Uncertainty of Linearity Assessment: ±0.6% (k=2)

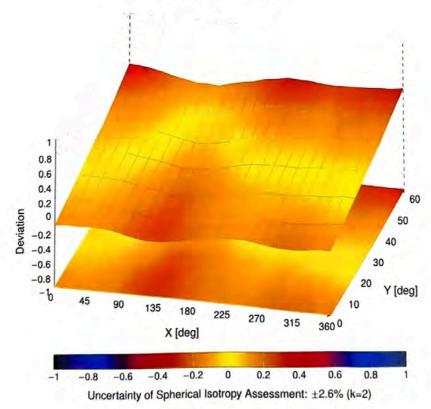
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#### **Conversion Factor Assessment**



## **Deviation from Isotropy in Liquid**

Error  $(\phi, \theta)$ , f = 900 MHz



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## **Appendix: Modulation Calibration Parameters**

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k
0		CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
0011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±96
0012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±96
10013	CAB	IEEE 802 11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±96
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±96
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6 56	±9.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9 6
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9 6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6
10028	DAC	GPRS-FDD (TDMA, GMSK TN 0-1-2-3)	GSM	3.55	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78 5.30	±96
10030	CAA	IEEE 802 15.1 Bluetooth (GFSK, DH1)	Bluetooth	1.87	±9.6
10031	CAA	IEEE 802 15.1 Bluetooth (GFSK, DH3)	Bluetooth	-	±9.6
10032	CAA	IEEE 802 15 1 Bluetooth (GFSK, DH5)	Bluetooth	7.74	±9.6
10033	CAA	IEEE 802,15 1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	4.53	±9.6
10034	CAA	IEEE 802 15.1 Bluetooth (PI/4-DQPSK, DH3)			_
10035	CAA	IEEE 802 15.1 Bluetooth (Pl/4-DQPSK, DH5)	Bluetooth	3.83 8.01	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	4.77	
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.0
10038	CAA	IEEE 802 15.1 Bluetooth (8-DPSK, DH5)	CDMA2000	4.57	-
10039	CAB	CDMA2000 (1xRTT, RC1) IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.
10042	CAB	IS-54 / IS-136 FDD (TDMAPDM, PI/4-DQFSh, Halifate)	AMPS	0.00	
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM) DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.0
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Pull Slot, 24)  DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.0
10049	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9 (
10056	CAA	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±96
10058	DAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
10059	CAB	IEEE 802.116 WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.83	±9.6
10060	CAB	IEEE 802 11b WiFi 2 4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±96
10061		IEEE 802 11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
		IEEE 802 11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8 63	±96
	CAE	IEEE 802 11a/h WiFi 5GHz (OFDM, 12Mbps)	WLAN		±9.6
0064	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.09	±9.6
10066	CAE		WLAN	9.38	±96
10067	CAE		WLAN	10 12	±9.6
0068	CAE	IEEE 802 11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±96
0069	CAE	IEEE 802 11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.24	±9.6
0071	CAB	IEEE 802 11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
0072	CAB	IEEE 802 11g WiFi 2 4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
0073	CAB	IEEE 802 11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
0074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9 6
0075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.30	±9.6
0076			WLAN	10.77	±9.6
0077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
0081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
0082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
0090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
0097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
8600	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
0099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
0100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
0101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
0102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
0103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
0104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
0105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±96
8010	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5 80	±9.6
0109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
0110	CAH	LTE-FDD (SC-FDMA, 100% RB. 5MHz, QPSK)	LTE-FDD	5.75	±9.6
0111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6

CAH CAE CAE CAE CAE CAE CAE CAF CAF CAF CAF	LTE-FDD (SC-FDMA, 100% RB. 10 MHz, 64-QAM) LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 13.5 Mbps, 64-QAM) IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	LTE-FDD LTE-FDD WLAN WLAN WLAN WLAN	6.59 6.62 8.10 8.46	±96 ±96 ±9.6
CAE CAE CAE CAE CAE CAE CAF CAF CAF	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN WLAN WLAN	8 10 8 46	±9.6
CAE CAE CAE CAE CAF CAF CAF CAF	IEEE 802 11n (HT Greenfield, 81 Mbps, 16-QAM) IEEE 802 11n (HT Greenfield, 135 Mbps, 64-QAM) IEEE 802 11n (HT Mixed, 13.5 Mbps, BPSK) IEEE 802 11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN WLAN	8 46	
CAE CAE CAE CAE CAF CAF CAF	IEEE 802 11n (HT Greenfield, 135 Mbps, 64-QAM) IEEE 802 11n (HT Mixed, 13.5 Mbps, BPSK) IEEE 802 11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	_	
CAE CAE CAF CAF CAF CAF	IEEE 802 11n (HT Mixed, 13.5 Mbps, BPSK) IEEE 802 11n (HT Mixed, 81 Mbps, 16-QAM)			±9.6
CAE CAF CAF CAF CAF	IEEE 802 11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8 15	±9.6
CAE CAF CAF CAF		140 144	8 07	±96
CAF CAF CAF		WLAN	8.59	±9.6
CAF CAF	IEEE 802 11n (HT Mixed, 135 Mbps. 64-QAM)	WLAN	8 13	±9.6
CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	6 53	±9.6
15.0 ts   1	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	5 73	±9.6
	LTE-FDD (SC-FDMA, 100% RB. 3 MHz, 64-QAM)	LTE-FDD	6.35 6.65	±9.6
CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5 76	±9.6
CAG				±9.6
CAG	The state of the s			±9.6
CAF				±9.6
CAF				±9.6
CAH				±9.6
CAH				±96
CAH			10.05	±9.6
CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5 75	±9.6
CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6 43	±9.6
CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9,6
CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz 64-QAM)	LTE-FDD	6.62	±9.6
CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6 43	±96
	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
	LTE-FDD (SC-FDMA, 50% RB, 1.4MHz, QPSK)	LTE-FDD	5.46	±9.6
				±9.6
-				±9.6
		100000000000000000000000000000000000000		±9.6
				±9.6
			_	±96
				±9.6
				±9.6
				±9.6
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				±9.6
				±9.6
				±9.6
CAH		7777777		±9.6
		The second secon		±9.6
CAF	LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-FDD		±9.6
AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5 73	±9.6
CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
CAG	LTE-FDD (SC-FDMA, 1 RB 1 4MHz, QPSK)	LTE-FDD	5 73	±9.6
CAG	LTE-FDD (SC-FDMA, 1 RB 1.4 MHz. 16-QAM)	LTE-FDD	6.52	±9.6
AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
CAE	IEEE 802 11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
CAE	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8 12	±9.6
CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8 21	±9.6
CAE		WLAN	8.10	±9.6
-		WLAN	8.13	±96
_		WLAN	8.27	±9.6
	The state of the s	WLAN	8.03	±9.6
-		WLAN	8.13	±9.6
_		WLAN	8.27	±9.6
		WLAN	8 06	±9.6
-				±9.6
	CAG CAF CAH CAH CAH CAH CAH CAH CAH CAH CAG	CAG LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) CAH LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) CAH LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) CAH LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) CAH LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) CAH LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 0PSK) CAH LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 0PSK) CAF LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) CAF LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) CAF LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 16-QAM) CAG LTE-FDD (SC-FDMA, 16 MB, 20 MHz, 16-QAM) CAF LTE-FDD (SC-FDMA, 17 MB, 20 MHz, 16-QAM) CAH LTE-TDD (SC-FDMA, 17 MB, 20 MHz, 16-QAM) CAH LTE-FDD (SC-FDMA, 17 MB, 20 MHz, 16-QAM) CAH LTE-FDD (SC-FDMA, 17 MB, 10 MHz, 16-QAM) CAE LTE-FDD (SC-FDMA, 17 MB, 10 MHz, 10 QAM) CAE LTE-FDD (SC-FDMA, 17 MB, 10 MHz, 10 QAM) CAE LTE-FDD (SC-FDMA, 17 MB, 10 MHz, 10 QAM) CA	CAG LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)  LTE-FDD (SC-FDMA, 500% RB, 20 MHz, 16-QAM)  LTE-FDD (SC-FDMA, 500% RB, 20 MHz, 64-QAM)  LTE-TDD (SC-FDMA, 500% RB, 20 MHz, 64-QAM)  LTE-TDD (SC-FDMA, 500% RB, 20 MHz, QPSK)  CAH LTE-TDD (SC-FDMA, 500% RB, 20 MHz, QPSK)  CAH LTE-TDD (SC-FDMA, 500% RB, 20 MHz, QPSK)  CAH LTE-TDD (SC-FDMA, 500% RB, 20 MHz, GPSK)  CAH LTE-FDD (SC-FDMA, 500% RB, 10 MHz, QPSK)  CAH LTE-FDD (SC-FDMA, 500% RB, 10 MHz, QPSK)  CAH LTE-FDD (SC-FDMA, 500% RB, 10 MHz, QPSK)  CAH LTE-FDD (SC-FDMA, 500% RB, 50 MHz, GPSK)  LTE-FDD (SC-FDMA, 500% RB, 50 MHz, GPSK)  LTE-FDD (SC-FDMA, 500% RB, 50 MHz, GPSK)  LTE-FDD (SC-FDMA, 500% RB, 15 MHz, GPSK)  CAG LTE-FDD (SC-FDMA, 500% RB, 15 MHz, GPSK)  CAG LTE-FDD (SC-FDMA, 500% RB, 15 MHz, GPSK)  LTE-FDD (SC-FDMA, 500% RB, 15 MHz, GPSK)  CAG LTE-FDD (SC-FDMA, 500% RB, 15 MHz, GPSK)  LTE-FDD (SC-FDMA, 500% RB, 15 MHz, GPSK)  LTE-FDD (SC-FDMA, 500% RB, 14 MHz, GPSK)  LTE-FDD (SC-FDMA, 1 RB, 20 MHz, GPSK)  LTE-FDD (SC-FDMA, 1 RB, 5 MHz, G	CAG LITE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)  LITE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  LITE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  LITE-FDD (SC-FDMA, 50% RB, 50 MHz, 60-QAM)  CAH LITE-FDD (SC-FDMA, 50% RB, 50 MHz, 60-QAM)  LITE-FDD (SC-FDMA, 50% RB, 15 MHz, 60-QAM)  LITE-FDD (SC-FDMA, 50% RB, 14 MHz, 60-QAM)  LITE-FDD (SC-FDMA, 16 RB, 20 MHz, 20 MSX)  LITE-FDD (SC-FDMA, 16 R

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k =
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1,4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6
0227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6
0228	CAC	LTE-TDD (SC FDMA, 1 RB, 1 4 MHz, QPSK)	LTE-TOD	9.22	±9.6
0229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
0231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9 19	±96
0232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-TDD	9 48	±9.6
0233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-TDD	10.25	±96
0234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-TDD	9.21	±9.6
0235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TOD	9.48	±9.6
0236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
0237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9 21	±9.6
0238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10 25	±9.6
0240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9 21	±9.6
0241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6
0242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
0243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TOD	9.46	±9.6
0244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TOD	10.06	±9.6
0245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±96
0246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
0247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
0248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10 09	±9.6
0249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
0250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TOD	9.81	±9.6
0251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-OAM)	LTE-TOD	10.17	±9.6
0252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TOD	9.24	±9.6
0253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	-
		LTE-TDD (SC-FDMA, 50% RB. 15 MHz, 64-QAM)			±9.6
0254	CAG		LTE-TOD	10.14	±96
0255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TOD	9.20	±9.6
0256	CAC	LTE-TDD (SC-FDMA 100% RB, 1 4 MHz 16-QAM)	LTE-TOD	9.96	±9.6
0257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6
0259	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
150	-	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9 6
0260		LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6
0261	-	LTE-TDD (SC-FDMA, 100% RB. 3MHz. QPSK)	LTE-TDD	9.24	±96
0262	_	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-TDD	9.83	±9.6
263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6
264		LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6
265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TOD	10.07	±9.6
267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6
268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-TDD	10.06	±9.6
269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)	LTE-TDD	10.13	±9.6
270		LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK)	LTE-TDD	9.58	±9.6
274	_	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8 10)	WCDMA	4.87	±9.6
275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
277	CAA	PHS (QPSK)	PHS	11.81	±9.6
278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
291	AAB	CDMA2000. RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr	CDMA2000	12.49	±9.6
297	AAE	LTE-FDD (SC-FDMA, 50% RB. 20 MHz, QPSK)	LTE-FDD	5.81	±9.6
298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	
300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
301	AAA	IEEE 802 16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)			±9.6
302	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.03	±9 €
303	AAA		WiMAX	12.57	±9.6
304	_	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	12.52	±9 6
_	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	11.86	±9.6
305	AAA	IEEE 802 16e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WiMAX	15.24	±9.6
306	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WIMAX	14.67	±9.6

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10307	AAA	IEEE 802 16e WiMAX (29:18, 10 ms, 10 MHz, OPSK, PUSC, 18 symbols)	WIMAX	14 49	±9.6
10308	AAA	IEEE 802,16e WiMAX (29 18, 10 ms, 10 MHz, 16 QAM, PUSC)	WIMAX	14.46	19.6
10309	AAA	IEEE 802,16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WMAX	14 58	±9.6
10310	AAA	IEEE 802 16e WIMAX (29:18, 10 ms. 10 MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	±9.6
10311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6 06	±9.6
10313	AAA	IDEN 1:3	IDEN	10.51	±96
10314	AAA	IDEN 1-6	IDEN	13.48	±9.6
10315	AAB	IEEE 802 11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	1 71	±9.6
10316	AAB		WLAN	8.36	±9.6
10317	AAE	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 95pc duty cycle)	WLAN	8.36	±9.6
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse Waveform (200Hz, 40%)		3.98	±9.6
10356	AAA	Pulse Waveform (200Hz, 60%)	Generic Generic	2.22	±9.6
10387	AAA	Pulse Waveform (200Hz, 80%)  OPSK Waveform, 1 MHz	Generic	0.97	±9,6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.10	±9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic	5 22	±9.6
10399	AAA	64-QAM Waveform, 100 KHz		6 27	±9.6
10400	AAF	IEEE 802 11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)	Generic	6.27	±9.6
10401	AAF	IEEE 802 11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)		8.37	±96
10402	AAF	IEEE 802 11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	WLAN	8.53	±9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
10404	AAB	CDMA2000 (1xEV-DC, HeV A) CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000 CDMA2000	3 77	±9.6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2.3,4,7,8,9, Subframe Conf=4)		5.22	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	LTE-TDD	7.82	±9.6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	Generic	8.54	±9.6
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10417	AAD	IEEE 802 11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802 11g WiFi 2 4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.23	±96
10419	AAA	IEEE 802 11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.14	±96
10422	-	IEEE 802 11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.19	±9.6
10423		IEEE 802 11n (HT Greenfield, 43.3 Mbps. 16-QAM)	WLAN	8 32	±96
10424	AAD	IEEE 802 11n (HT Greenfield, 72 2 Mbps, 64-QAM)	WLAN	8.47	±9.6
10425	4	IEEE 802 11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8 40	±9.6
10426	AAD	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.41	±9.6
10427	AAD	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.45	±9.6
10430	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.41	±9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz E-TM 3.1)	LTE-FDD	8.28	±9.6
10432	AAD	LTE-FDD (OFDMA, 15MHz, E-TM 3.1)	LTE-FDD		±9.6
10433	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10435	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD		±9.6
0447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.82 7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD		±9 6
0449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.53	±9.6
10450	AAD	LTE-FDD (OFDMA 20 MHz, E-TM 3 1, Clipping 44%)	LTE-FDD	7.51	±9.6
0451	AAB	W-CDMA (BS Test Model 1. 64 DPCH, Clipping 44%)	WCDMA	7.48	±96
10453	AAE	Validation (Square, 10 ms 1 ms)	Test		±9.6
0456	AAD	IEEE 802 11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	10.00	±9.6
0457	AAB	UMTS-FDD (DC-HSDPA)	WCDMA	8.63	±96
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
0459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
0460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6
0461	AÁC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7 82	19.6
0462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	±9.6
0463	AAC	LTE-TDD (SC-FDMA. 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
0464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK_UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
0465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TDD	8.32	±9.6
0466	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±96
0467	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD	7.82	±9.6
0468	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
0469	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
0470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
0470		LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)			

EX3DV4 - SN:7735 January 29, 2025

AV         TET DIO ISC FORMA 188, 158447. 86 OWAL U. Schlammer-23.4.7,8.9)         UTE TOD.         25.2         25.2           AVA         TET DIO ISC FORMA 188, 158447. 86 OWAL U. Schlammer-23.4.7,8.9)         UTE TOD.         25.2         25.2           AVA         TET DIO ISC FORMA 188, 158447. 86 OWAL U. Schlammer-23.4.7,8.9)         UTE TOD.         25.2         25.2           AVA         TET DIO ISC FORMA 188, 258447. 86 OWAL U. Schlammer-23.4.7,8.9)         UTE TOD.         25.2         25.2           AVA         TET DIO ISC FORMA 188, 25844. 87 OWAL U. Schlammer-23.4.7,8.9)         UTE TOD.         25.2         25.2           AVA         TET DIO ISC FORMA 188, 25844. 87 OWAL U. Schlammer-23.4.7,8.9)         UTE TOD.         25.2         25.2           AVA         TET DIO ISC FORMA 188, 25844. 87 OWAL U. Schlammer-23.4.7,8.9)         UTE TOD.         25.2         25.2           AVA         TET DIO ISC FORMA 158, 25844. 87 OWAL U. Schlammer-23.4.7,8.9)         UTE TOD.         25.2         25.2           AVA         TET DIO ISC FORMA 158, 25844. 188, 248,	96+	8 39	WI ON	IEEE 802.11ac WIF		
AND THE TIDD SC FORM, TIRE, TOMMS, GOAM, UI Schlammer, 23,47,89). THE TIDD SC FORM, TIRE, TOWNS, CORN, TIRE, TIRE, TIRE, TIRE, TOWNS, CORN, TIRE, TIRE, TIRE, TIRE, TOWNS, CORN, TIRE, TIRE, TIRE, TIRE, TIRE, TIRE, TOWNS, CORN, TIRE, TI	+96+	85	WLAN	IEEE 802 11ac WIFI (40 MHz, MCS4,	-	10538
AND         THE TOD ISC FORM, TIRE, TOMHE, DE OAM, UI. Schlimmer-2,3,4,7,8,9)         ITE TOD.         857           AND         THE TOD ISC FORM, TIRE, TOMHE, OSSA, UI. Schlimmer-2,3,4,7,8,9)         ITE TOD.         857           AND         THE TOD ISC FORM, TIRE, 20MH, 18, 150MH, UI. Schlimmer-2,3,4,7,8,9)         ITE TOD.         857           AND         THE TOD ISC FORM, TIRE, 20MH, 18, 150MH, UI. Schlimmer-2,3,4,7,8,9)         ITE TOD.         857           AND         THE TOD ISC FORM, SIGN RB, 3MH, 195M, 195M, UI. Schlimmer-2,3,4,7,8,9)         ITE TOD.         878           AND         THE TOD ISC FORM, SIGN RB, 3MH, 195M, UI. Schlimmer-2,3,4,7,8,9)         ITE TOD.         878           AND         THE TOD ISC FORM, SIGN RB, 3MH, 195M, UI. Schlimmer-2,3,4,7,8,9)         ITE TOD.         878           AND         THE TOD ISC FORM, SIGN RB, 3MH, 195M, UI. Schlimmer-2,3,4,7,8,9)         ITE TOD.         777           AND         THE TOD ISC FORM, SIGN RB, 3MH, 195M, UI. Schlimmer-2,3,4,7,8,9)         ITE TOD.         778           AND         THE TOD ISC FORM, SIGN RB, 3MH, 195M, UI. Schlimmer-2,3,4,7,8,9)         ITE TOD.         778           AND         THE TOD ISC FORM, SIGN RB, 3MH, 195M, UI. Schlimmer-2,3,4,7,8,9)         ITE TOD.         779           AND         THE TOD ISC FORM, SIGN RB, 3MH, 195M, UI. Schlimmer-2,3,4,7,8,9)         ITE TOD.         779	198	844	WLAN	IEEE 802 11ac WIFI (40 MHz, MCS3,	-	10537
AND         THE TOD SC FOMA, ITB, TOMAL IB, OSRAL US SORTERN-2,31,7,89.         THE TOD         857           AND         THE TOD SC FOMA, ITB, TSMAL, GOSAL US SORTERN-2,31,7,99.         THE TOD         857           AND         THE TOD SC FOMA, ITB, TSMAL, GOSAL US SORTERN-2,31,7,99.         THE TOD         857           AND         THE TOD SC FOMA, ITB, TSMAL, GOSAL US SORTERN-2,31,7,99.         THE TOD         857           AND         THE TOD SC FOMA, SOR BE AMEL, GOSAL US SORTERN-2,31,7,89.         THE TOD         77           AND         THE TOD SC FOMA, SOR BE AMEL, GOSAL US SORTERN-2,31,7,89.         THE TOD         87           AND         THE TOD SC FOMA, SOR BE AMEL, GOSAL US SORTERN-2,31,7,89.         THE TOD         87           AND         THE TOD SC FOMA, SOR BE AMEL, GOSAL US SORTERN-2,31,7,89.         THE TOD         87           AND         THE TOD SC FOMA, SOR BE SOME, GOSAL US SORTERN-2,31,7,89.         THE TOD         87           AND         THE TOD SC FOMA, SOR BE SOME, GOSAL US SORTERN-2,31,7,89.         THE TOD         87           AND         THE TOD SC FOMA, SOR BE SOME, GOSAL US SORTERN-2,31,7,89.         THE TOD         87           AND         THE TOD SC FOMA, SOR BE SOME, GOSAL US SORTERN-2,31,7,89.         THE TOD         87           AND         THE TOD SC FOMA, SOR BE SOME, GOSAL US SORTERN-2,31,7,89.         THE	+96+	8.30	WIAN	IFFE 802 11ac WIFI (40 MHz, MCS2,	7	10536
AND         THE TYDO SC FOMA, I FIR, 15MH, 16 OAM, U. Schlimmer-2,3,4,7,8,9.         ITE TDO         857           AND         THE TYDO SC FOMA, I FIR, 15MH, 16 OAM, U. Schlimmer-2,3,4,7,8,9.         ITE TDO         857           AND         THE TYDO SC FOMA, I FIR, 15MH, 16 OAM, U. Schlimmer-2,3,4,7,8,9.         ITE TDO         822           AND         THE TYDO SC FOMA, I FIR, 25MH, 16 OAM, U. Schlimmer-2,3,4,7,8,9.         ITE TDO         827           AND         THE TYDO SC FOMA, SOW, RE I AMH, 16 OAM, U. Schlimmer-2,3,4,7,8,9.         ITE TDO         827           AND         THE TYDO SC FOMA, SOW, RE I AMH, 16 OAM, U. Schlimmer-2,3,4,7,8,9.         ITE TDO         827           AND         THE TYDO SC FOMA, SOW, RE I AMH, 16 OAM, U. Schlimmer-2,3,4,7,8,9.         ITE TDO         837           AND         THE TYDO SC FOMA, SOW, RE I AMH, 16 OAM, U. Schlimmer-2,3,4,7,8,9.         ITE TDO         837           AND         THE TYDO SC FOMA, SOW, RE I AMH, 16 OAM, U. Schlimmer-2,3,4,7,8,9.         ITE TDO         837           AND         THE TYDO SC FOMA, SOW, RE I AMH, 16 OAM, U. Schlimmer-2,3,4,7,8,9.         ITE TDO         837           AND         THE TYDO SC FOMA, SOW, RE I AMH, 16 OAM, U. Schlimmer-2,3,4,7,8,9.         ITE TDO         837           AND         THE TYDO SC FOMA, SOW, RE I AMH, 16 OAM, U. Schlimmer-2,3,4,7,8,9.         ITE TDO         837	+98	8.45	WLAN	IFFE 802-11ac WiFi (40 MHz.	-	10535
AND         THE FIND ISC FORM. I RB, TISHUH, FB COMM. UI. Schlimmer-23,4,7,8,9)         ITE TIDD         857           AND         THE FIND ISC FORM. I RB, TISHUH, FB COMM. UI. Schlimmer-23,4,7,8,9)         ITE TIDD         857           AND         THE FIND ISC FORM. I RB, TISHUH, FB COMM. UI. Schlimmer-23,4,7,8,9)         ITE TIDD         857           AND         THE FIND ISC FORM. I RB, TISHUH, FB COMM. UI. Schlimmer-23,4,7,8,9)         ITE TIDD         857           AND         THE FIND ISC FORM. I RB, TISHUH, FB COMM. UI. Schlimmer-23,4,7,8,9)         ITE TIDD         877           AND         THE FIND ISC FORM. SOR RB, ASHLY, E COMM. UI. Schlimmer-23,4,7,8,9)         ITE TIDD         878           AND         THE FIND ISC FORM. SOR RB, ASHLY, E COMM. UI. Schlimmer-23,4,7,8,9)         ITE TIDD         879           AND         THE FIND ISC FORM. SOR RB, ASHLY, E COMM. UI. Schlimmer-23,4,7,8,9)         ITE TIDD         879           AND         THE FIND ISC FORM. SOR RB, SHLY, E COMM. UI. Schlimmer-23,4,7,8,9)         ITE TIDD         879           AND         THE FIND ISC FORM. SOR RB, SHLY, E COMM. UI. Schlimmer-23,4,7,8,9)         ITE TIDD         879           AND         THE FIND ISC FORM. SOR RB, SHLY, E COMM. UI. Schlimmer-23,4,7,8,9)         ITE TIDD         879           AND         THE FIND ISC FORM. SOR RB, SHLY, E COMM. UI. Schlimmer-23,4,7,8,9)         ITE TIDD         870	1000	8 45	WIAN	-	-	10000
AND         THE TOD ISC EDMAN, TIRE, MINHE, 64 OAM, U. Schlimmer, 23,4,7,8,9)         ITE TOD         857           AND         THE TOD ISC EDMAN, TIRE, TISHAH, TO OAM, U. Schlimmer, 23,4,7,8,9)         ITE TOD         857           AND         THE TOD ISC EDMAN, TIRE, TISHAH, TO OAM, U. Schlimmer, 23,4,7,8,9)         ITE TOD         827           AND         THE TOD ISC EDMAN, SIGN, BIR, TALKE, ED OAM, U. Schlimmer, 23,4,7,8,9)         ITE TOD         827           AND         THE TOD ISC EDMAN, SIGN, BIR, ALMER, GO OAM, U. Schlimmer, 23,4,7,8,9)         ITE TOD         827           AND         THE TOD ISC EDMAN, SIGN, BIR, ALMER, GO OAM, U. Schlimmer, 23,4,7,8,9)         ITE TOD         827           AND         THE TOD ISC EDMAN, SIGN, BIR, ALMER, GO OAM, U. Schlimmer, 23,4,7,8,9)         ITE TOD         829           AND         THE TOD ISC EDMAN, SIGN, BIR, ALMER, GO OAM, U. Schlimmer, 23,4,7,8,9)         ITE TOD         829           AND         THE TOD ISC EDMAN, SIGN, BIR, SUMH, GO OAM, U. Schlimmer, 23,4,7,8,9)         ITE TOD         829           AND         THE TOD ISC EDMAN, SIGN, BIR, SUMH, GO OAM, U. Schlimmer, 23,4,7,8,9)         ITE TOD         829           AND         THE TOD ISC EDMAN, SIGN, BIR, SUMH, GO OAM, U. Schlimmer, 23,4,7,8,9)         ITE TOD         829           AND         THE TOD ISC EDMAN, SIGN, BIR, SUMH, GO OAM, U. Schlimmer, 23,4,7,8,9)         ITE TOD	0.61	82.8	WIAN	+	1	10532
AND THE TOD (SC FDMA, 188, 19MH; 60 OM, U. Subrimane-2,3,4,7,8,9)  AND THE TOD (SC FDMA, 188, 19MH; 60 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 188, 19MH; 60 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 188, 19MH; 60 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 188, 19MH; 60 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  ANG THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 59%, 88 1 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 59%, 88 2 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 59%, 88 2 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 59%, 88 2 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 59%, 88 3 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 59%, 88 3 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 59%, 88 3 AMF, 16 OM, U. Subrimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 59%, 88 3 AMF, 16 OM, U. Subrimane-2,3,4,	1446	8 43	WIAN	IFFE 802 11ac WIFI (20 MHz	+	10531
AAC THE TOD (SC FDMA, 188, 15MH; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ATHE TOD (SC FDMA, 188, 15MH; 6 OAM, UI Subtimane-2,3,4,7,8,9)  THE TOD (SC FDMA, 188, 15MH; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 188, 15MH; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 598, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 1098, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 1098, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 1098, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 1098, 181, 14MH; 0.0PSK, UI Subtimane-2,3,4,7,8,9)  ACT THE TOD (SC FDMA, 1098, 1	1+96	8.35	WLAN	IEEE 802 11ac WH (20MHz, MCS4,	1	10529
AAC THE TOD (SC FDMA, 188, 19MH; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ATE TOD (SC FDMA, 188, 19MH; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 188, 19MH; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 188, 19MH; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 188, 19MH; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 1 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 2 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 2 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 2 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 2 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 2 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 2 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 2 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD (SC FDMA, 59%, 88 2 AMF; 6 OAM, UI Subtimane-2,3,4,7,8,9)  ACC THE TOD	98	8.36	WLAN	IEEE 802 Trac WIFI (20MHz, MCS3,	-	10528
AAC THE TOD (SC FDMA, 188, 15MHz, 64 OAM, UI Subtrame-2,34,7,8,9)  ATE TOD (SC FDMA, 188, 15MHz, 64 OAM, UI Subtrame-2,34,7,8,9)  LIE TOD  8 22  AAG THE TOD (SC FDMA, 188, 15MHz, 64 OAM, UI Subtrame-2,34,7,8,9)  LIE TOD  8 27  AAG THE TOD (SC FDMA, 188, 15MHz, 64 OAM, UI Subtrame-2,34,7,8,9)  LIE TOD  8 28  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  LIE TOD  8 29  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 1 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 2 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 2 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 2 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 2 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 2 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 59%, 88 2 AMHz, 64 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 100%, 88 2 AMHz, 16 OAM, UI Subtrame-2,34,7,8,9)  AAG THE TOD (SC FDMA, 100%, 88 3 AMHz, 16 OAM, UI Subtrame-2,34,7,8,9)  LIFE TOD  8 53  AAG THE TOD (SC FDMA, 100%, 88 3 AMHz, 16 OAM, UI Subtrame-2,34,7,8,9)	±96	821	WLAN	IEEE 802 11ac		10527
AAF TIET TOD ISC FINAL THE TOO ISC FINAL SHE TOWN IN Subtinance-2.3.4.7.8.9)  ITE TOD ISC FINAL THE TOWN IN SUBMIT SOME IN Subtinance-2.3.4.7.8.9)  ITE TOD ISC FINAL THE TOWN IN SUBMIT SOME IN SUBTINANCE AND IN	964	8 42	WLAN	IFFE 802 11ac WIFT (20 MHz, MCS1,		10526
ANT THE TOD ISC EDMA, 1 RB, 15MHz, 64 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANT THE TOD ISC EDMA, 1 RB, 15MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 1 RB, 20MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 1 RB, 20MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 1 RB, 20MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 3 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 3 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 3 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 3 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 3 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 3 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 3 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 3 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 3 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 3 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 3 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 5 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 15 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 15 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 15 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 15 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD ANG ITE TOD ISC EDMA, 50%, RB, 15 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD BE SELD INTO ISC EDMA, 50%, RB, 15 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD BE SELD INTO ISC EDMA, 50%, RB, 20 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD BE SELD INTO ISC EDMA, 50%, RB, 20 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). ITE TOD BE SELD INTO ISC EDMA, 50%, RB, 20 MHz, 16 OAM, U. Subtrame-2,3,47,8,9). IT	±96	8.36	WLAN	IFEE 802	-	10525
AAG ITE TOD (SC FDAM, 1 RB, 15MHz, 64 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 1 RB, 15MHz, 64 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 1 RB, 25MHz, 64 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 1 RB, 25MHz, 64 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 3 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 3 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 3 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 3 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 3 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 3 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 3 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 5 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 5 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 5 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 5 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 5 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 5 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 5 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 5 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 5 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 5 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 59A; RB, 5 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 100A; RB, 10 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 100A; RB, 10 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 100A; RB, 10 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM, 100A; RB, 10 MHz, 16 OAM, U Subtrame-2,3,4,7,8,9) ITE TOD AAG ITE TOD (SC FDAM,	961	8 27	WLAN	IEEE 802	-	10524
AMF THE TOD (SC FDMA, 1 RB, 15MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,29  AMF THE TOD (SC FDMA, 1 RB, 15MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 1 RB, 15MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 1 RB, 25MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 3 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 3 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 3 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 3 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 3 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 8,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 8,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 8,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 8,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 8,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 64 OM). U Subtame-2,3,4,7,8,9). UE TOD 8,24  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 6 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 6 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  AMG THE TOD (SC FDMA, 50%, RB, 5 MHz, 6 OM). U Subtame-2,3,4,7,8,9). UE TOD 7,20  B.33  AMG UT FOD (SC FDMA, 50%, RB, 5 MHz, 6 OM). U Subtame-2,3,4,7,8	196	8 08	WLAN	IEEE 802	1	10523
AMF ITE TOD (SC FDMA 18B, 15MHz 69 AVA UL Subriame-23.47,8.9) UTE TOD AMF ITE TOD (SC FDMA 18B, 15MHz 69 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 18B, 15MHz 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 18B, 20MHz 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 3MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 3MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 3MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 3MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 3MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 3MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 3MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 3MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 5MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 5MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 5MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 5MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 5MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 5MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 5MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 5MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 5MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 5MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 5MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD AMG ITE TOD (SC FDMA 56%, 8B, 5MHz, 64 AVA UL Subriame-23.47,8.9) UTE TOD BE STANDARD SUBPRIANCE	9 6 t	8.45	WLAN	IEEE 802	-	10522
AMF ITE TOD (SC FDMA, 18B, 15MHz, 66 A/M, U. Subriame-2,3,4,7,8,9) UE TOD  AMF ITE TOD (SC FDMA, 18B, 15MHz, 66 A/M, U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 18B, 15MHz, 66 A/M, U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 46 A/M, U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 46 A/M, U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 46 A/M L, 54 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 66 A/M L, 54 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 66 A/M L, 54 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 66 A/M L, 54 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 67 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 67 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 67 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 67 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 67 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 67 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 67 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 A/M L, 67 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 B, 50 ML L, 60 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 B, 50 ML L, 60 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 B, 50 ML L, 60 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 56 M, 88 B, 50 ML L, 60 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 100 M, 88 B, 30 ML L, 60 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 100 M, 88 B, 30 ML L, 60 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD (SC FDMA, 100 M, 88 B, 30 ML L, 60 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG ITE TOD  AMG ITE TOD  SC FDMA, 100 M, 88 B, 30 ML L, 60 A/M U. Subriame-2,3,4,7,8,9) UE TOD  AMG IT	967	797	WLAN	-	+	10521
AAG   ITE TDD   SQC FDMA   1 RB, 15MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.57  AAG   ITE TDD   SQC FDMA   1 RB, 15MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.72  AAG   ITE TDD   SQC FDMA   1 RB, 15MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.72  AAG   ITE TDD   SQC FDMA   56%, RB   34MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.72  AAG   ITE TDD   SQC FDMA   56%, RB   34MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.72  AAG   ITE TDD   SQC FDMA   56%, RB   34MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.72  AAG   ITE TDD   SQC FDMA   56%, RB   34MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   34MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   34MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   34MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   34MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   34MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   34MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   54MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   54MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   54MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   54MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   54MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   36MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   36MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   36MHz   64 OAM   U. Subframe-23.47,8.9    UE TDD   8.74  AAG   ITE TDD   SQC FDMA   56%, RB   36MHz   64 OAM   U. Subframe-23.47,8.9    UE TD	9 6±	8.12	WLAN	-	-	10520
AAG ITE TDD (SC FDMA, 18R, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAF ITE TDD (SC FDMA, 18R, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 18R, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 14MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 14MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 56%, RB, 15MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 160%, RB, 34MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 160%, RB, 34MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 160%, RB, 34MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG ITE TDD (SC FDMA, 160%, RB, 34MHz, 64 OAM, UL Subrianne-2,3,4,7,8,9)   UE TDD AAAG	+ 90	839	WLAN	EEE 802		10510
AAG LIFE TOD (SC EDMA, 18B, 15MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 18B, 15MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 18B, 15MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 18B, 20MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 14MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 3MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 3MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 3MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 3MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 5MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 5MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 5MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 5MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 5MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 5MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 5MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 5MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 5MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 5MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 5MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 15MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 15MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 15MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 15MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 15MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 15MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 15MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 15MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 15MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 8B, 3MHz, 16 CAM, UL Subtrame-2,3,4,7,8,9)  LIFE	0.0	823	WLAN	+	1	10017
AAG LIFE TOD (SC EDMA, 188, 15MHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AFF LIFE TOD (SC EDMA, 188, 15MHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 188, 15MHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 188, 20MHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 1 AMHz, 64 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 5 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 5 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 5 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 5 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 5 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 5 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 5 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 5 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 5 AMHz, 16 AM, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 64 AMA, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 64 AMA, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 64 AMA, UL Subrianne-2,3,4,7,8,9)  AAG LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 64 AMA, UL Subrianne-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 64 AMA, UL Subrianne-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 64 AMA, UL Subrianne-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 64 AMA, UL Subrianne-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 81 3 AMHz, 64 AMA, UL Subrianne-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, 81	100	158	WLAN	IEEE BOZ 115 WIFE 2 4 GHZ (DSSS	1	00010
AAG LIFE TOD (SC FDMA, 188, 15MHz, 16SMz, 184, 184, 184, 184, 184, 184, 184, 184	96 t	1.58	WLAN	IEEE 802 116 WIF 2		10515
AAG LIE TOD ISC FDMA 1 RB, 15MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 1 RB, 15MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 1 RB, 15MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 1 RB, 15MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 56% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 100% RB, 16 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 100% RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 100% RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 100% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA 100% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)	9 6 F	8.45	LTE-TDD	LTE TDD (SC FDMA 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3	-	10514
AAG LIE TOD ISC FDMA, 1 RB, 15MHz, 0F3K, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 1 RB, 15MHz, 0F3K, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 1 RB, 15MHz, 0F3K, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 1 RB, 20MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 3 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 3 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 3 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 3 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 3 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 3 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 56%, RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 100%, RB, 2 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 100%, RB, 2 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 100%, RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA, 100%, RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIE TOD ISC FDMA	196	8 42	LIE-TDD	LTE TDD (SC FDMA, 100% RB, 20 MHz,		10513
ANG LIFETOD ISC FDMA, 1 RB, 15MHz, 0F3K, UL Subframe-23,4,7,8,9)  ANF LIFETOD ISC FDMA, 1 RB, 15MHz, 0F3K, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 1 RB, 15MHz, 0F3K, UL Subframe-23,4,7,8,9)  ANG LIFETOD ISC FDMA, 1 RB, 20MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 1 RB, 20MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 3 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 3 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 3 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 3 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 5 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 16 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 16 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 16 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 16 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 16 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 15 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 56%, RB, 15 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 100%, RB, 16 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 100%, RB, 16 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 100%, RB, 16 MHz, 64 OAM, UL Subframe-23,4,7,8,9)  LIFETOD ISC FDMA, 100%, RB, 16 M	967	7.74	LTE-TDD	LTE-TDD (SC FDMA 100% RB. 20 MHz.	- 1	10512
ANG LIFE TOD ISC FONA, 1 RB, 15MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  ANF LIFE TOD ISC FONA, 1 RB, 15MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 1 RB, 15MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 1 RB, 20MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 1 4MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 1 4MHz, 16 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 1 4MHz, 16 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 1 4MHz, 16 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 3 MHz, 16 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 3 MHz, 16 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 3 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 5 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 5 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 5 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 5 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 5 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 5 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 5 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 5 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 5 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 15 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 15 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 25 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 25 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 25 MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 50MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 50MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 50MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 50MHz, 64 OAM, U. Subriame-2,3,4,7,8,9)  LIFE TOD ISC FONA, 50%, RB, 50MHz, 64 OA	9 6±	851	LTE-TDD	-	-	10511
AAG LIFE TDD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  AAF LIFE TDD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  AAG LIFE TDD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  AAG LIFE TDD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  AAG LIFE TDD (SC FDMA, 50%, RB, 1 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 1 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 1 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 5 MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 15MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 15MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 25MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD (SC FDMA, 50%, RB, 25MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD  CC FDMA, 50%, RB, 25MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  AAG LIFE TDD  CC FDMA, 50%, RB, 36MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  CC FDMA, 50%, RB, 36MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  CC FDMA, 50%, RB, 36MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  CC FDMA, 50%, RB, 36MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TDD  CC FDMA, 50%, RB, 36MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIF	±96	8.49	LTE-TDD	-	-1	10510
AAG LIFE TOD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  AAF LIFE TOD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 1 RB, 25MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 1 RB, 25MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 1 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 1 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 1 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 3 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 3 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 3 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 5 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 5 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 5 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 5 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 5 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 5 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 5 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 5 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 15 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 15 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 15 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 15 AMHz, 64 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 20 AMHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 59%, RB, 20 AMHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 100%, RB, 30 AMHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 100%, RB, 30 AMHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 100%, RB, 30 AMHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC FDMA, 100%, RB, 30 AMHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC F	+0.6	799	LTE-TOD	+	-1	5,00
AAG LIFE TOD (SC EDMA, 1 RB, 15MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  AAF LIFE TOD (SC EDMA, 1 RB, 15MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 1 RB, 15MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 1 RB, 25MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 1 RB, 20MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 1 AMHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 1 AMHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 3MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 3MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 3MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 5MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 5MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 5MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 5MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 5MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 5MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 16 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 15 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 15 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 15 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 15 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 15 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 15 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 15 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 20 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 20 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 20 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 20 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 20 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9)  LIFE TOD (SC EDMA, 50%, RB, 30 MHz, 64 OAM, UL	196	0 00	LIE TOO	+	-	1050/
AAG ITETIDD (SC FDMA 1 RB, 10MHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  AAF ITETIDD (SC FDMA 1 RB, 15MHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  AAG ITETIDD (SC FDMA 1 RB, 15MHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  AAG ITETIDD (SC FDMA 1 RB, 20MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  AAG ITETIDD (SC FDMA 1 RB, 20MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 1 4MHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 1 4MHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 3 MHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 3 MHz, 0 PSK, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 3 MHz, 0 PSK, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 3 MHz, 0 PSK, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 3 MHz, 0 PSK, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 PSK, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 PSK, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 0 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 6 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC FDMA 56% RB, 5 MHz, 6 CAM, UL Subframe-2,3.4,7.8.9)  ITETIDD (SC	±96	7.74	001 311	LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK, UL SI	+	10506
AAG ITE TDD (SC FDMA, 1 RB, 10MHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  AAF ITE TDD (SC FDMA, 1 RB, 15MHz, 65 OAM, UL Subframe-2,3.4,7.8.9)  AAF ITE TDD (SC FDMA, 1 RB, 20MHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  AAG ITE TDD (SC FDMA, 1 RB, 20MHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 1 RB, 20MHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 1 AMHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 1 AMHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 3 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 3 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 3 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 15 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  AAC ITE TDD (SC FDMA, 50%, RB, 15 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  ITE TDD  AAC ITE TDD (SC FDMA, 50%, RB, 15 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  ITE TDD  AAC ITE TDD (SC FDMA, 50%, RB, 15 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  ITE TDD  AAC ITE TDD (SC FDMA, 50%, RB, 15 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  ITE TDD  AAC ITE TDD (SC FDMA, 50%, RB, 15 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  ITE TDD  AAC ITE TDD (SC FDMA, 50%, RB, 15 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  ITE TDD  B 54  AAC ITE TDD (SC FDMA, 50%, RB, 15 MHz, 16 OAM, UL Subframe-2,3.4,7.8.9)  ITE TDD  B 54  AAC ITE TDD  C FDMA, 50%, RB, 50MHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  ITE TDD  B 55  AAC ITE TDD  C FDMA, 50%, RB, 50MHz, 64 OAM, UL Subframe-2,3.4,7.8.9)  ITE TDD  B 56  AAC	£96	8 54	LTE TOO	LTE-TOD (SC-FDMA		10505
AAG 1TE TDD (SC FDMA 1 RB, 15MHz, 0PSK, UL Subframe-2,3,4,7,8,9)	961	831	LIE TOD	LTE TOD (SC-FDMA	-	10504
AAG LTE TDD ISC FDMA, 1 RB, 15MHz, 0PSK, UL Subtrame-2,3,4,7,8,9 LTE TDD 8,7 AAF LTE TDD ISC FDMA, 1 RB, 15MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 8,7 AAG LTE TDD ISC FDMA, 1 RB, 15MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 8,7 AAG LTE TDD ISC FDMA, 1 RB, 15MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 8,7 AAG LTE TDD ISC FDMA, 1 RB, 20MHz, 64 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 8,7 AAG LTE TDD ISC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 8,74 AAC LTE TDD ISC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 20 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 20 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 20 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 20 MHz, 16 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subtrame-2,3,4,7,8,9 LTE TDD 10 SC	100	7779	LIE TOO	+	+-	2000
AAG LITE TDD (SC FDMA, 1 RB, 15MHz, OPSK, UL Subframe=2,3,4,7,8,9)  AAF LITE TDD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LITE TDD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 1 RB, 20MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 1 RB, 20MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 1 AMHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 1 AMHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 3 MHz, 0 PSK, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 3 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 3 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 5 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 5 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 5 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 5 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 5 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  AAG LITE TDD (SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  LITE TDD B 8 39  AAG LITE TDD (SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  LITE TDD B 8 40  AAG LITE TDD (SC FDMA, 50% RB, 10 MHz, 10 OAM, UL Subframe=2,3,4,7,8,9)  LITE TDD B 8 54  AAG LITE TDD (SC FDMA, 50% RB, 10 MHz, 10 OAM, UL	19 6 ±	844	LTE-TDD	-	-	10501
AAG   TF TDD  SC FDMA, 1 RB, 15MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD   8.57 AAF   LTE TDD  SC FDMA, 1 RB, 15MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 1 RB, 15MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 1 RB, 20MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 1 RB, 20MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 3 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 3 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 5 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 5 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 5 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 5 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 10 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 15 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 15 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 15 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 15 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 15 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 20 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 20 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 20 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 20 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 20 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 20 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 20 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9   LTE TDD  SC FDMA, 50% RB, 15 MHz, 16 OAM, UI Subframe=2,3,4,7,8,	±9.6	7.67	LTE-TOO	LTE-TDD (SC-FDMA,		10500
AAG LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 15 MHz, 64 OAM,	196	8.68	LIE-TOD	LTE-TDD (SC-FDMA,	-+	10499
AAG LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 25 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 56% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 5MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 5MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 5MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 5MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 5MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 5MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 16 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 16 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 56% RB, 16 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 56% RB, 16 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 56% RB, 16 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 56% RB, 16 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 56% RB, 16 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 56% RB, 16 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 56% RB, 16 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 56% RB, 16 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 56% RB, 16 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 56% RB, 16 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 56% RB, 16 MHz, 16 OAM, UL S	9 6 t	8 40	LTE-T00	C LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16 QAM, UL Subframe=	+	0498
AAG LIF TDD (SC FDMA, 1 RB, 15MHz, 64 QAM, UL Subframe=2,3,4,7,8,9)  AAF LIF TDD (SC FDMA, 1 RB, 15MHz, 64 QAM, UL Subframe=2,3,4,7,8,9)  AAF LIF TDD (SC FDMA, 1 RB, 15MHz, 64 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 1 RB, 20MHz, 64 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 50% RB, 1 AMHz, 64 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 50% RB, 1 AMHz, 64 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 50% RB, 1 AMHz, 64 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 50% RB, 1 AMHz, 64 QAM, UL Subframe=2,3,4,7,8,9)  AAD LIF TDD (SC FDMA, 50% RB, 3MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  AAD LIF TDD (SC FDMA, 50% RB, 3MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 50% RB, 3MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 50% RB, 3MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 50% RB, 3MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 50% RB, 3MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 50% RB, 3MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 50% RB, 5MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 50% RB, 10MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 50% RB, 10MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  AAG LIF TDD (SC FDMA, 50% RB, 10MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LIF TDD  AAG LIF TDD (SC FDMA, 50% RB, 10MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LIF TDD  B 39  AAG LIF TDD (SC FDMA, 50% RB, 10MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LIF TDD  B 38  AAG LIF TDD (SC FDMA, 50% RB, 10MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LIF TDD  B 39  LIF TDD  B 39  LIF TDD  B 39  LIF TDD  B 39  LIF TDD  B 31  AAG LIF TDD (SC FDMA, 50% RB, 10MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LIF TDD  B 31  AAG LIF TDD (SC FDMA, 50% RB, 15MHz, 64 QAM, UL Subframe=2,3,4,7,8,9)  LIF TDD  B 31  AAG LIF TDD  B 32  LIF TDD  B 33  AAG LIF TDD (SC FDMA, 50% RB, 15MHz, 64 QAM, UL Subframe=2,3,4,7,8,9)  LIF TDD  B 31  AAG LIF TDD  B 32  LIF TDD  B 33  AB LIF TDD  B 34  AB LIF TDD  B 35  AB LIF TDD  B 36  B	1961	7.67	LIE TOO	LIE-TOD (SC.FDMA, 50% RB, 20MHz, 64-QAM, DE Subflame=2	+	0496
AAG       LTE TDD (SC FDMA, 1 RB, 15MHz, OPSK, UL Subframe=2,3,47,8,9)       LTE TDD       B57         AAF       LTE TDD (SC FDMA, 1 RB, 15MHz, OPSK, UL Subframe=2,3,47,8,9)       LTE TDD       LTE TDD       B32         AAF       LTE TDD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subframe=2,3,47,8,9)       LTE TDD       B32         AAF       LTE TDD (SC FDMA, 1 RB, 20MHz, 64 OAM, UL Subframe=2,3,47,8,9)       LTE TDD       B57         AAG       LTE TDD (SC FDMA, 50% RB, 1 4MHz, 64 OAM, UL Subframe=2,3,47,8,9)       LTE TDD       B57         AAG       LTE TDD (SC FDMA, 50% RB, 1 4MHz, 64 OAM, UL Subframe=2,3,47,8,9)       LTE TDD       B57         AAG       LTE TDD (SC FDMA, 50% RB, 1 4MHz, 64 OAM, UL Subframe=2,3,47,8,9)       LTE TDD       B18         AAG       LTE TDD (SC FDMA, 50% RB, 3 MHz, 0PSK, UL Subframe=2,3,47,8,9)       LTE TDD       B18         AAG       LTE TDD (SC FDMA, 50% RB, 3 MHz, 0PSK, UL Subframe=2,3,47,8,9)       LTE TDD       B77         AAD       LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,47,8,9)       LTE TDD       B39         AAG       LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,47,8,9)       LTE TDD       B39         AAG       LTE TDD (SC FDMA, 50% RB, 5 MHz, 64 OAM, UL Subframe=2,3,47,8,9)       LTE TDD       B30         AAG       LTE TDD       B30       B40      <	196	8.37	LIE TOD	LTE TDD (SC FDMA, 50% RB, 20 MHz, 16 QAM, UL Subirame=2	-	0495
AAG       1TF TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)       LTE TDD       LTE TDD       857         AAF       1TF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)       LTE TDD       1TF TDD       832         AAF       1TF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)       LTE TDD       857         AAG       1TF TDD (SC FDMA, 1 RB, 20 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)       LTE TDD       857         AAG       1TF TDD (SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)       LTE TDD       857         AAG       LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)       LTE TDD       857         AAD       LTE TDD (SC FDMA, 50% RB, 3MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)       LTE TDD       847         AAD       LTE TDD (SC FDMA, 50% RB, 5MHz, 0PSK, UL Subframe=2,3,4,7,8,9)       LTE TDD       839         AAG       LTE TDD (SC FDMA, 50% RB, 5MHz, 0PSK, UL Subframe=2,3,4,7,8,9)       LTE TDD       847         AAG       LTE TDD (SC FDMA, 50% RB, 5MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)       LTE TDD       839         AAG       LTE TDD (SC FDMA, 50% RB, 5MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)       LTE TDD       838         AAG       LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)       LTE TDD       860         AAG       LTE TDD       856	196	7.74	LIE TOD	LTE TOD (SC FDMA, 50% RB, 20 MHz,	-	0494
AAG LTE TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 1 RB, 20 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB,	±9.6	8 55	LTE-TOO	317	-	0493
AAG 1TF TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF 1TF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF 1TF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF 1TF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 1 RB, 20 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 1 4 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 1 4 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD 1TF TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD 1TF TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD 1TF TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 10 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC	±9.6	8.41	LTE-TOO	LTE TOD (SC FDMA, 50% RB.	AAF	0492
AAG 1TF TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF 1TF TDD (SC FDMA, 1 RB, 15 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  AAF 1TF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 1 RB, 20 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 1 RB, 20 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAD 1TF TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD 1TF TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7	96+	7.74	LTE-TOD	THE TOD (SC FOMA 50% AB.	-1-	0490
AAG 1TF TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF 1TF TDD (SC FDMA, 1 RB, 15 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  AAF 1TF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF 1TF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 1 4 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 1 4 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD 1TF TDD (SC FDMA, 50% RB, 1 4 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD 1TF TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD 1TF TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG 1TF TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,	±9.6	831	LIE 100	ITE TOD (SC FDMA, 50% RB,	-	10489
AAG LTE TDD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 1 RB, 20MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 1 RB, 20MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50%, RB, 14 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50%, RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50%, RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50%, RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50%, RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAB LTE TDD (SC FDMA, 50%, RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  8 38  AAG LTE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  8 38  AAG LTE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  8 38  AAG LTE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  8 38  AAG LTE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  8 38  AAG LTE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  8 38  AAG LTE TDD (SC FDMA, 50%, RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  8 38	±9.6	7.70	LIE TOO	LTE-TDD (SC-FDMA, 50% RB.	1	10488
AAG LTE TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 1 RB, 20 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAB LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 5 MHz, 16 OAM, UL Subframe=2,3	9 6 t	8.60	LTE TOO	LTE TDD (SC FDMA, 50% RB	AAG	10487
AAG LTE TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 1 RB, 20 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 3 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  LTE TDD  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  LTE TDD  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  LTE TDD  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  LTE TDD  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  LTE TDD  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  LTE TDD  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  LTE TDD  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  LTE TDD  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  LTE TDD  AAG LTE TDD (SC FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)	9 6±	8.38	LITE-TOD	LITE TOD (SC FDMA, 50% RB,	AAG	10486
AAG LTE TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 1 RB, 20 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAD LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=	±9.6	7.59	LTE-TOD	LTE TDD (SC FDMA, 50% RB, 5MHz,	AAG	0485
AAG LTE TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 1 RB, 20 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAC LTE TDD (SC FDMA, 50% RB, 3 MHz, 16 OAM, UL Subfram	196	8 47	LTE-TDO	LITE TOD (SC FDMA 50% RB.	AAD	0484
AAG LTE TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 1 RB, 20 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 1 RB, 20 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  B 18  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  B 18  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  B 18  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  B 18  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  B 18  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  B 18  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  B 18  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  B 18  AAG LTE TDD (SC FDMA, 50% RB, 14 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD  B 18  AAG LTE TDD  B 18  AAG LTE TDD  B 18  AAG LTE TDD	196	839	OCCUPATION OF THE PROPERTY OF	THE TOD (SC FOMA, 50% AB.	200	0482
AAG LTE TDD (SC FDMA, 1 RB, 10MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15MHz, OPSK, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 1 RB, 20MHz, 16-OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 1 RB, 20MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 50% RB, 1 4 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 50% RB, 1 4 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)	0 0	8,45	TIE IOO	LITE TOD (SC.FDMA 50% RB.	AAC	0481
AAG LTE TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  AAF LTE TDD (SC FDMA, 1 RB, 15 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 1 RB, 15 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  AAG LTE TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 1 RB, 20 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 1 RB, 20 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 56% RB, 1 4 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 56% RB, 1 4 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 56% RB, 1 4 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 56% RB, 1 4 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 56% RB, 1 4 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 56% RB, 1 4 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  LTE TDD (SC FDMA, 56% RB, 1 4 MHz, OPSK, UL Subframe=2,3,4,7,8,9)	196	818	LTETDO	LTE-TDD (SC FDMA.	AAC	10480
AAG LTF TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  AAF TTF TDD (SC FDMA, 1 RB, 15 MHz, OPSK, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, UI Subframe=2,3,4,7,8,9)	5.63	7.74	115 100	LTE TOD (SC FDMA.	AAC	10479
AAG LTF TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, Ul Subframe=2,3,4,7,8,9)  AAF TTF TDD (SC FDMA, 1 RB, 15 MHz, OPSK, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz) 16 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 64 QAM, Ul Subframe=2,3,4,7,8,9)  AAG TTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 20 MHz, 16 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, Ul Subframe=2,3,4,7,8,9)  LTF TDD (SC FDMA, 1 RB, 15 MHz, 64 OAM, Ul Subframe=2,3,4,7,8,9)	196	857	TIE TOD	LITE TOD (SC FDMA, 1 RB, 20 MHz, 64 CAM, UL Subframe=2,3,4	AAG	10478
AAG LITE TOD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  AAF LITE TOD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  LITE TOD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  LITE TOD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  LITE TOD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  LITE TOD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  LITE TOD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  LITE TOD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  LITE TOD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  LITE TOD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  LITE TOD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  LITE TOD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  LITE TOD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)  LITE TOD (SC FDMA, 1 RB, 15 MHz, 64 OAM, UI Subframe=2,3,4,7,8,9)	664	8 32	TLE LDD	TE TOD ISC DMA 1 RB.	AAG	0477
AAG LITE TDD (SC FDMA, 1 RB, 10 MHz, 64 OAM, UL Subframe=2,3,4,7,8,9)  LITE TDD (SC FDMA, 1 RB, 15 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  LITE TDD (SC FDMA, 1 RB, 15 MHz, OPSK, UL Subframe=2,3,4,7,8,9)  LITE TDD (SC FDMA, 1 RB, 15 MHz, OPSK, UL Subframe=2,3,4,7,8,9)	100	8 57	LIE TOO	LIE TOD (SC FDMA	2	0474
AAG LIF TDD (SC FDMA, 1 FIB, 10 MHz. 64 OAM, UI Subframe=2,3,4,7,8,9) LIE TDD 8-57	196	782	LIE TOD	ITE TOO ISC FOMA.	ANE	0473
	±96	8 57	100	THE TOTAL OF LAME	2000000	1

UID	Rev	Communication System Name	Group	PAR (dB)	Uno <sup>E</sup> k = 2
10541	AAD	IEEE 802 11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN.	8 46	±9.6
10542	AAD	IEEE 802 11ac WiFi (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.6
10543	AAD	IEEE 802 11ac WIFI (40 MHz, MCS9, 99pc duty cycle)	WLAN	8 65	±9.6
10544	AAD	IEEE 802 11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
10545	AAD	IEEE 802 11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8 55	±9.6
10546	AAD	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	19.6
10547	AAD	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
10548	AAD	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±96
10550	AAD	IEEE 802 11ac WiFi (80 MHz. MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
10551	AAD	IEEE 802 11ac WiFi (80 MHz, MCS7, 99pc duty cycle)	WLAN	8:50	±96
10552	AAD	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6
10553	AAD	IEEE 802 11ac WiFi (80 MHz, MCS9, 99pc duty cycle)	WLAN	8 45 8 48	±9,6
10554	AAE	IEEE 802 11ac WiFi (160 MHz. MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
10555	AAE	IEEE 802 11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.50	±9.6
10556	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8 52	196
10557	AAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.61	±9.6
10558	AAE	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.73	±9.6
10560	AAE	IEEE 802 11ac WiFi (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.56	±9.6
10561	AAE	IEEE 802 11ac WiFi (160 MHz MCS7, 99pc duty cycle)	WLAN	8.69	±96
10562	AAE	IEEE 802 11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.77	±96
10563	AAE	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.25	±96
10564	AAA	IEEE 802 11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10565	AAA	IEEE 802 11g WiFi 2 4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10566	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10569	AAA	IEEE 802 11g WiFi 2 4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10570	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS-OP-Div, 54-MoDS, 5556 361) 57-857	WLAN	1.99	±9.6
10571	AAA	IEEE 802.116 WIFI 2.4 GHz (USSS, 1 Mbps, 30pc daty cycle)	WLAN	1.99	±9.6
10572	AAA	IEEE 802.116 WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10573	AAA	IEEE 802 11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 30pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802 11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10576	AAA	IEEE 802 11g WiFi 2 4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	196
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps. 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±96
10580	AAA	IEEE 802 11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±96
10581	AAA	IEEE 802 11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802 11g WiFi 2 4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10583	AAD	IEEE 802 11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10586	AAD	IEEE 802 11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8 49	±9.6
10587	AAD	IEEE 802 11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10588	AAD	IEEE 802 11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10589	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10590	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	196
10591	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	19.6
10592	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8 79	±9.6
10593	AAD	IEEE 802 11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8 64	±96
10594	AAD	IEEE 802 11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8,74	±9.6
10595	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
10596	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
10597	AAD	IEEE 802.11n (HT Mixed. 20 MHz, MCS6, 90pc duty cycle)	WLAN	8 72	±9.6
10598	AAD	IEEE 802 11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
10599	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
10600	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10601	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	19.6
10602	AAD	IEEE 802 11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±96
10603	AAD	IEEE 802 11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9 03	±9.6
10604	AAD	IEEE 802 11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8.76	19.6
10605	AAD	IEEE 802 11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6
10606	AAD	IEEE 802 11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	196
10607	AAD	IEEE 802 11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8 64	±9.6
10608	AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	UncE k=
10609	AAD	IEEE 802 11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8 57	±9.6
10610	AAD	IEEE 802 11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8 78	±9.6
10611	AAD	IEEE 802,11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAD	IEEE 802 11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±96
10613	AAD	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)	WLAN	8 94	±9.5
10614	AAD	IEEE 802 11ac WiFi (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
10615	AAD	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duly cycle)	WLAN	8.82	±9.6
10616	AAD	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±96
10617	AAD	IEEE 802 11ac WiFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	AAD	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	AAD	IEEE 802 11ac WiFi (40 MHz, MCS3, 90pc duty cycle)	WLAN	8 86	±9.6
10620	AAD	IEEE 802 11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAD	IEEE 802 11ac WiFi (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±96
10622	AAD	IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
10623	AAD	IEEE 802 11ac WiFi (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10624	AAD	IEEE 802 11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6
10625	AAD	IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)	WLAN	8 96	±9.6
10626	AAD	IEEE 802 11ac WiFi (80 MHz. MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAD	IEFE 802 11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±96
10628	AAD	IEEE 802 11ac WiFi (80 MHz. MCS2, 90pc duty cycle)	WLAN	8.71	±9.6
10629	AAD	IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±96
10630	AAD	IEEE 802 11ac WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	872	±9.6
10631	AAD	IEEE 802 11ac WiFi (80 MHz, MCS5, 90pc duty cycle)	WLAN	8 81	±9.6
10632	AAD	IEEE 802.11ac WiFi (80 MHz MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10633	AAD	A September 1991 A Sept	WLAN	8.83	±96
10634	AAD	IEEE 802 11ac WiFi (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
10635	AAD	IEEE 802 11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
10636	AAE	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±96
10637	AAE	IEEE 802 11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10638	AAE	IEEE 802 11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
10639	AAE	IEEE 802 11ac WiFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	8 85	±9.6
10640	-	IEEE 802 11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8 98	±9.6
10641	_	IEEE 802 11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
10642			WLAN	9 06	±9.6
10643	-	IEEE 802 11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644			WLAN	9.05	±9.6
10645	AAE		WLAN	9.11	±9.6
10647	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10648	AAA		CDMA2000	11.96	±96
10652	AAF	CDMA2000 (1x Advanced)  LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	3.45	±9.6
10653	AAF	LTE-TDD (OFDMA, 10MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6 91	±9.6
10654	AAE	LTE-TDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10658		Pulse Waveform (200Hz. 10%)	Test	7.21	±9.6
10659	AAB	Pulse Waveform (200Hz. 20%)	Test	10.00	±9.6
10660	AAB		Test	6.99	±96
10661	AAB	Pulse Waveform (200Hz. 60%)	Test	3.98	±9.6
10662	and the second	Pulse Waveform (200Hz, 80%)	Test	2 22	±9.6
0670	AAA	Bluetooth Low Energy	Bluetooth	0.97	±9.6
0671	AAC	IEEE 802.11ax (20 MHz. MCS0, 90pc duty cycle)	WLAN	2.19	±9.6
10672	AAC	IEEE 802 11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	9.09	±9.6
10673	AAC	IEEE 802 11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57 8.78	±9.6
0674	AAC	IEEE 802.11ax (20 MHz. MCS3, 90pc duty cycle)	WLAN		±9.6
0675	AAC	IEEE 802 11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74 8.90	±9.6
0676	AAC	IEEE 802 11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
0677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
0678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
0679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
0680	AAC	IEEE 802 11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
0681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
0682	AAC	IEEE 802 11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8 83	±9.6
0683	and Change	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
0684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	19.6
0004			TYLKIN	0.40	10.0
0685	AAC	IEEE 802 11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6

מוט	Rev	Communication System Name	Group	PAR (dB)	UncE k = 2
10687	AAC	IEEE 802 11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±96
10688	AAC	IEEE 802 11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
10689	AAC	IEEE 802 11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	19.6
10690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8,29	±9.6
10691	AAC	IEEE 802 11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	196
10692	AAC	IEEE 802 11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±96
10693	AAC	IEEE 802 11ax (20 MHz. MCS10, 99pc duty cycle)	WLAN	8.25	±96
10694	AAC	IEEE 802 11ax (20 MHz. MCS11, 99pc duty cycle)	WLAN	8.57	£9.6
10695	AAC	IEEE 802,11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6
10696	AAC	IEEE 802 11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±96
10697	AAC	IEEE 802 11ax (40 MHz. MCS2, 90pc duty cycle)	WLAN	8 61	±9.6
10698	AAC	IEEE 802 11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
10699	AAC	IEEE 802 11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6
10700	AAC	IEEE 802 11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8 73	±9.6
10701	AAC	IEEE 802 11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
10702	AAC	IEEE 802 11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8 70	±96
10703	AAC	IEEE 802 11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
10705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6
10706	AAC	IEEE 802 11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±96
10707	AAC	IEEE 802 11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9,6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10709	AAC	IEEE 802 11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710		IEEE 802 11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±96
10711	-	IEEE 802 11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6
10714		IEEE 802 11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6
10716	AAC	IEEE 802 11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±96
10717	AAC	IEEE 802 11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8.48	±9.6
10718	AAC	IEEE 802 11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802 11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8 76	±9.6
10723	AAC	IEEE 802 11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10724	AAC	IEEE 802 11ax (80 MHz, MCS4, 90pc duty cycle) IEEE 802 11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.70	±9.6
10725	AAC	IEEE 802 11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
10726	AAC	IEEE 802 11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.74	±96
10727	AAC	IEEE 802 11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.72	±96
10728	AAC	IEEE 802 11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.66	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8 65	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.64	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.67	±9.6
10732	AAC	IEEE 802 11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6
10733		IEEE 802 11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8 46	±9.6
10734		IEEE 802 11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.40 8.25	±96
10735		IEEE 802.11ax (80 MHz. MCS4, 99pc duty cycle)	WLAN	8.33	±96
10736	AAC	IEEE 802 11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.33	±9.6
10737	AAC	IEEE 802 11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	836	±9.6
10738	AAC	IEEE 802 11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10739	AAC	IEEE 802 11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	±9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
0741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
0742	AAC	IEEE 802.11ax (80 MHz. MCS11, 99pc duty cycle)	WLAN	8.43	19.6
0743	AAC	IEEE 802 11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6
10744	AAC	IEEE 802 11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9 16	±9.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	±9.6
0746	AAC	IEEE 802 11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6
10747	AAC	IEEE 802 11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9 04	±9.6
10748	AAC	IEEE 802 11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6
10751	AAC	IEEE 802 11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10752	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	UncE k =
10753	AAC	IEEE 802 11ay (160 MHz, MCS10, 90pc duty cycle)	WLAN	9 00	±96
10754	AAC	JEEE 802 11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8 94	±96
10755	AAC	IEEE 802 11ay (160 MHz, MCS0, 99pc duty cycle)	WLAN	8 64	±9.6
10756	AAC	IEEE 802 11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8 77	±9.6
0757	AAC	IEEE 802 11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	877	±9.6
10758	AAC	IEEE 802 11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8 69	±9.6
0759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8,58	±96
0760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±96
0761	AAC	JEEE 802 11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8 58	±96
10762	AAC	IEEE 802 11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8 49	±9.6
0763	AAC	IEEE 802 11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8 53	±96
0764	AAC	IEEE 802 11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
0765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10766	AAG	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±96
10767	AAG	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±96
0768	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±96
10769	AAD	5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.01	±9.6
10770	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8 02	±9.6
10771	AAD	5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 15kHz)	5G NR FR1 TDD	8 02	±9.6
10772	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
0772	AAF	5G NR (CP-OFDM, 1 RB. 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
10774	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8 02	±9.6
10775	AAF	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8 31	±9.6
10776	AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±96
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10778	AAE	5G NR (CP-OFDM, 50% RB, 20 MHz. QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10779		5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
10780	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±96
10781	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782		5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±96
10783	-	5G NR (CP-OFDM. 100% RB, 5 MHz QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10784		5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK. 15 kHz)	5G NR FR1 TDD	8.29	±9.6
10785	AAD	5G NR (CP-OFDM, 100% RB. 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
10786	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK. 15 kHz)	5G NR FR1 TDD	8 44	±96
10788	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.39	±9.6
10789		5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.37	±9.6
10790	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10791	AAG	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10792	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
0794	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±96
0795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±96
10796	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10797	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	±9.6
10798	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
0799	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
0801	AAF	5G NR (CP-OFDM, 1 RB. 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
0802	AAE	5G NR (CP-OFDM. 1 RB. 90 MHz. QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
0803	AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
0805	AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
0806	AAD	5G NR (CP-OFDM, 50% RB 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±96
0809	AAE	5G NR (CP-OFDM, 50% RB 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±96
0810	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
0812	AAF	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
0817	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
0818	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FRI TDD	8.34	±9.6
0819	DAA	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FRI TDD	8.33	±9.6
0820	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FRI TOD	8.30	±9.6
0821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FRI TDD	8.41	±9.6
0822	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
0823	AAF	5G NR (CP-OFDM, 100% RB. 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8 36	±9.6
0824	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FRI TDD	8.39	±96
0825	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FRI TDD	8.41	±9.6
_	AAF	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k =
10829	AAF	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8 40	±9.6
10830	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10831	AAD	5G NR (CP-OFDM, 1 RB. 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
10832	AAE	5G NR (CP-OFDM 1 RB, 20 MHz. QPSK. 60 kHz)	5G NR FR1 TDD	774	±9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	50 NR FRI TDD	7.70	±96
10834	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9.6
10835	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7 70	±9.6
10836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz QPSK, 60 kHz)	5G NR FR1 TDD	7.66	±96
10837	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9.6
10839	AAF	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10840	AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	±9.6
10841	AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	±9.6
0843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	±96
0844	AAE	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8 34	±96
0846	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±96
0854	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz. QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
0855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
0856	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8 37	±9.6
0857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8 35	±9.6
0858	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8 36	±9.6
0859	AAF	5G NR (CP-OFDM, 100% RB. 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±96
0860	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
0861	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	±9.6
0863	AAF	Control Contro	5G NR FR1 TDD	8.41	±96
0864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8 37	±9.6
0865	AAF	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8 41	±9.6
0866	AAF	5G NR (DFT-s-OFDM, 1 RB, 100 MHz QPSK, 30 kHz)	5G NR FR1 TDD	5 68	±9.6
0868	AAF	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
0869	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
0870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
0871	AAE		5G NR FR2 TDD	5 75	±9.6
0872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±96
0873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6 61	±9.6
0874	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6 65	±96
0875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±96
0876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
0877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz. 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
0878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
0879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
0880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8 38	±9.6
881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
882	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
883		5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
884	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
		5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6 65	±9.6
887	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±96
888	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
889		5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	±9.6
890	AAE		5G NR FR2 TDD	8.40	±9.6
891	AAE		5G NR FR2 TDD	8.13	±96
892	_	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
897	AAE		5G NR FR1 TDD		±9.6
898	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
899	AAB	5G NR (DFT-s-OFDM, 1 RB. 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	_	±9.6
900	AAC	5G NR (DFT-s-OFDM, 1 RB. 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
902	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
904	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5 68	±9.6
905	AAD	5G NR (DFT-s-OFDM, 1 RB. 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
	AAE	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
907	-	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±96
_	AAC	30 MI (OF 13 OF DIV. 30% ND, TUWINZ, QFSK, 30KNZ)			
0907 0908 0909	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	-
10911	AAB	5G NR (DET-s-OFDM 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5 93	±9.6
10912	AAC	5G NR (DET s OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±96
0913	AAD	5G NR (DET-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FRI TDD	5 84	±96
0914	AAC	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK 30 kHz)	50 NR FR1 TDD	5 85	±96
0915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5 83	±9.6
0916	AAD	5G NR (DFT:s OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5 87	±96
0917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NA FR1 TDD	5.94	±9.6
0918	AAE	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
0919	AAC	5G NR (DFT:s-OFDM, 100% RB. 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
-	AAB	5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 30 kHz)	5G NR FRI TOD	5 87	£9.6
0920	AAC	5G NR (DFT-s-OFDM, 100% RB. 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5 84	±9.6
0921		5G NR (DFT-s-OFDM, 100% RB 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5 82	±9.6
0922	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
0923	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
0924	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	19.6
0925	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5 84	±96
0926	AAD	SG NR (DFT-S-OFDM, 100% NB, BUMHZ, GFSK, 30KHZ)	5G NR FR1 TDD	5.94	±96
927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 FDD	5.52	±9.6
928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)		5.51	±9.6
0931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		
932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5 51	±9.6
933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz. QPSK, 15 kHz)	5G NR FR1 FDD	5 51	±96
934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9,6
935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5 51	±9.6
0936	AAD	COOK ASIALAN	5G NR FR1 FDD	5.90	±9.6
0937	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
0938	AAC	The state of the s	5G NR FR1 FDD	5.90	±9.6
	2.1.7.5	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
0939	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5,89	±9.6
0940	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5 83	±9.6
0941	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±96
0942	AAC	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
0943	AAD	5G NR (DFT-S-OFDM, 50% NB, 50 MIN2, QF SK, 15 MIZ)	5G NR FR1 FDD	5.81	±9.6
0944	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±96
0945	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
0946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.87	±9.6
0947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5 94	±9.6
0948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)		5.87	±9.6
0949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		±9.6
0950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	-
0951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
0952	AAA	5G NR DL (CP-OFDM, TM 3 1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.6
0953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9 6
0954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
0955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.6
0.056	ΔΔΛ	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8,31	±9.6
_	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9,6
958	-	5G NR DL (CP-OFDM, TM 3 1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
959	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
960	AAE	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15KHz)	5G NR FR1 TDD	9.36	±9.6
961	AAC	DG NR UL (CP-OPDM, TM 3.1, TUMHZ, 64-QAM, TSKIZ)	5G NR FR1 TDD		±9.6
962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz)	5G NR FR1 TDD		±9.6
963	AAC	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.29	±96
964	AAE	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)		9.29	±9.6
965	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD		+
966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.6
967	AAC	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	±9.6
968	AAD	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	±9.6
972	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	±9.6
973	-	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
974	and the same of	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
978	AAA	ULLA BDR	ULLA	1.16	±9.6
979	-	ULLA HDR4	ULLA	8.58	±9.6
	-		ULLA	10.32	±9,6
980	AAA	ULLA HDR8	ULLA	3.19	±9.6
	AAA	ULLA HDRp4	- CLEA	3-15	1

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UID	Rev	Communication System Name	Group	PAR (dB)	UncE k = 2
10983	AAC	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAB	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.6
10985	AAC	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9 54	±9.6
10986	AAB	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	196
10987	AAC	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9 53	±9.6
10988	AAB	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9 38	±96
10989	AAC	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	±9.6
10990	AAB	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6
11003	AAA	5G NR DL (CP-OFDM, TM 3 1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.70	±9.6
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	±9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8 46	±9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAB	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8 47	±96
11014	AAB	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8 45	±9.6
11015	AAB	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
11016	AAB	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAB	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8.41	±9.6
11018	AAB	IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8 40	±9.6
11019	AAB	IEEE 802 11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
11020	AAB	IEEE 802 11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.6
11021	AAB	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±9.6
11022	AAB	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAB	IEEE 802 11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8 09	±9.6
11024	AAB	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.6
11025	AAB	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	±9.6
11026	AAB	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	±9.6

<sup>&</sup>lt;sup>E</sup> Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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