

APPENDIX C: PROBE AND DIPOLE CALIBRATION CERTIFICATIONS

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

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Client Element Columbia, USA

Certificate No. 5G-Veri10-1004_Aug24

CALIBRATION CERTIFICATE

Object	5G Verification S	Source 10 GHz - SN: 1004	
	QA CAL-45.v5 Calibration proce	edure for sources in air above 6 Gł	Ηz
Calibration date:	August 06, 2024		
		ional standards, which realize the physical units probability are given on the following pages and	
All calibrations have been conducted	in the closed laborato	ry facility: environment temperature (22 ± 3)°C	and humidity < 70%.
Calibration Equipment used (M&TE o	critical for calibration)		
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Reference Probe EUmmWV3	SN: 9374	04-Dec-23 (No. EUmm-9374_Dec23)	Dec-24
DAE4ip	SN: 1602	08-Nov-23 (No. DAE4ip-1602_Nov23)	Nov-24
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMF100A	SN: 100184	29-Nov-23 (in house check Nov-23)	In house check: Nov-24
Power sensor R&S NRP18S-10	SN: 101258	29-Nov-23 (in house check Nov-23)	In house check: Nov-24
Network Analyzer Keysight E5063A	SN: MY54504221	31-Oct-19 (in house check Oct-22)	In house check: Oct-25
	Name	Function	Signature
Calibrated by:	Joanna Lleshaj	Laboratory Technician	Lulul leal
Approved by:	Sven Kühn	Technical Manager	C2-
This collibration contificate shall not be	- concoduced event in	full without written approval of the laboratory.	Issued: August 6, 2024



mm

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Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

505 08/22/2

Calibration Laboratory of

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





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Swiss Calibration Service

Accreditation No.: SCS 0108

Glossary

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CW

Continuous wave

Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45, Calibration procedure for sources in air above 6 GHz.
- IEC/IEEE 63195-1, "Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz)", May 2022

Methods Applied and Interpretation of Parameters

- Coordinate System: z-axis in the waveguide horn boresight, x-axis is in the direction of the E-field, y-axis normal to the others in the field scanning plane parallel to the horn flare and horn flange.
- Measurement Conditions: (1) 10 GHz: The radiated power is the forward power to the horn antenna minus ohmic and mismatch loss. The forward power is measured prior and after the measurement with a power sensor. During the measurements, the horn is directly connected to the cable and the antenna ohmic and mismatch losses are determined by farfield measurements. (2) 30, 45, 60 and 90 GHz: The verification sources are switched on for at least 30 minutes. Absorbers are used around the probe cub and at the ceiling to minimize reflections.
- Horn Positioning: The waveguide horn is mounted vertically on the flange of the waveguide source to allow vertical positioning of the EUmmW probe during the scan. The plane is parallel to the phantom surface. Probe distance is verified using mechanical gauges positioned on the flare of the horn.
- *E- field distribution:* E field is measured in two x-y-plane (10mm, 10mm + $\lambda/4$) with a vectorial E-field probe. The E-field value stated as calibration value represents the E-fieldmaxima and the averaged (1cm² and 4cm²) power density values at 10mm in front of the horn.
- Field polarization: Above the open horn, linear polarization of the field is expected. This is verified graphically in the field representation.

Calibrated Quantity

Local peak E-field (V/m) and average of peak spatial components of the poynting vector (W/m^2) averaged over the surface area of 1 cm² and 4cm² at the nominal operational frequency of the verification source. Both square and circular averaging results are listed.

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	DASY8 Module mmWave	V3.2
Phantom	5G Phantom	
Distance Horn Aperture - plane	10 mm	
Number of measured planes	2 (10mm, 10mm + λ/4)	
Frequency	10 GHz ± 10 MHz	

Calibration Parameters, 10 GHz

Circular Averaging

Distance Horn Aperture to Measured Plane	Prad ¹ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m ²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	93.3	153	1.27 dB	60.9	56.9	1.28 dB

Distance Horn Aperture to Measured Plane	Prad ¹ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Power Density psPDn+, psPDtot+, psPDmod+ (W/m²)		Uncertainty (k = 2)
				1 cm ² 4 cm ²		
10 mm	93.3	153	1.27 dB	60.8, 60.9, 61.1	56.7, 56.9, 57.1	1.28 dB

Square Averaging

Distance Horn Aperture to Measured Plane	Prad¹ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m ²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	93.3	153	1.27 dB	60.9	56.8	1.28 dB

Distance Horn Aperture to Measured Plane	Prad ¹ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Power Density psPDn+, psPDtot+, psPDmod+ (W/m²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	93.3	153	1.27 dB	60.8, 60.9, 61.1	56.6, 56.8, 57.0	1.28 dB

Max Power Density

Distance Horn Aperture to Measured Plane	Prad ¹ (mW)	Max E-fleid (V/m)	Uncertainty (k = 2)	Max Power Density Sn, Stot, Stot (W/m²)	Uncertainty (k = 2)
10 mm	93.3	153	1.27 dB	62.4, 62.4, 62.6	1.28 dB

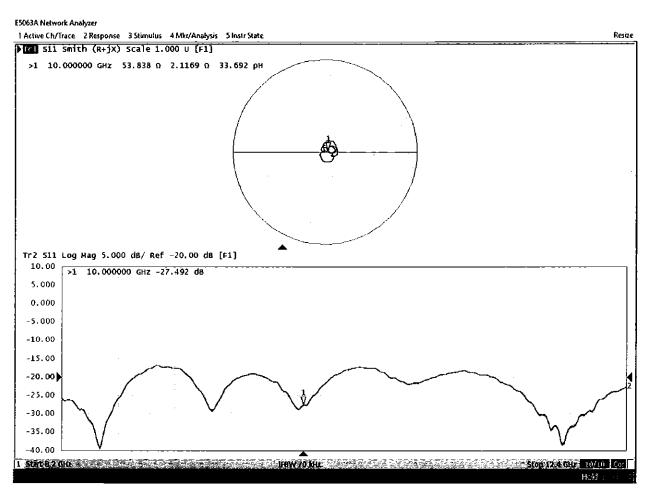
 $^{^{\}rm 1}$ Assessed onmic and mismatch loss plus numerical offset: 0.30 dB

Appendix (Additional assessments outside the scope of SCS 0108)

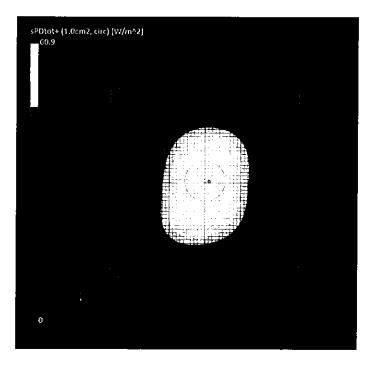
Antenna Parameters

Impedance, transformed to feed point	53.8 Ω + 2.1 jΩ
Return Loss	- 27.5 dB

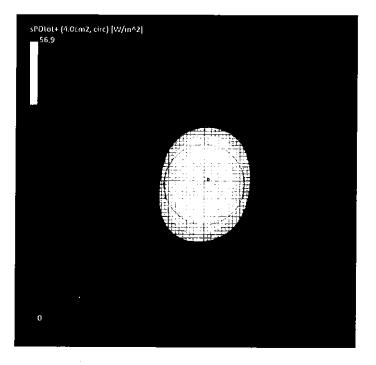
Impedance Measurement Plot



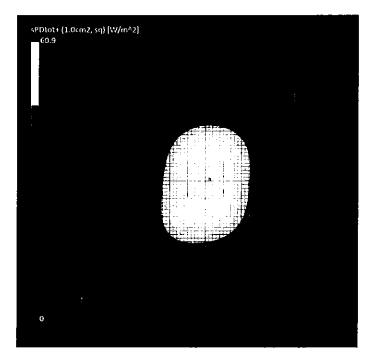
Device under Test Proj Name, Manufacturer 5G Verification Source 10 G		Dimensions (mm 100.0 x 100.0 x 1	•	IMEI SN: 10	04	DU T Typ e -	
Exposure Conditions Phantom Section	Positio	n, Test Distance	Band	Gro	oup,	Frequency [MHz],	Conversion Factor
	[mm]	-			.,	Channel Number	
5G -	10.0 mi	n	Validation band	cw		10000.0, 10000	1.0
Hardware Setup							
Phantom mmWave Phantom - 1002		Medium Air			Probe, Callbration Da EUmmWV3 - SN9374_ 2023-12-04		DAE, Calibration Date DAE4ip Sn1602, 2023-11-08
Scan Setup					Measurement Re	sults	
			5G S	Scan			5G Scan
Sensor Surface [mm]				10.0	Date		2024-08-06, 10:05
MAIA			MAIA not u	ised	Avg. Area [cm ²]		1.00
					Avg. Type psPDn+ (W/m²)		Circular Averaging 60.8
					psPDtot+ [W/m ²]		60.9
					psPDmod+ (W/m ²)		61.1
					Max(5n) [W/m ²]		62.4
					Max(Stot) [W/m ²]		62.4
					Max([Stot]) [W/m ²]		62.6
					E _{max} [V/m] Power Drift [dB]		153 -0.01



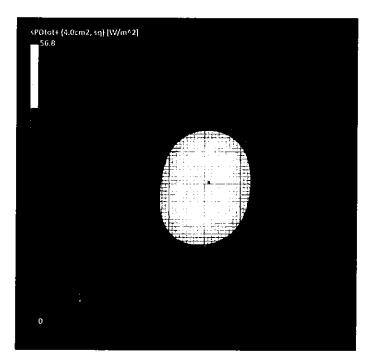
Device under Test Proj Name, Manufacturer 5G Verification Source 10 C		Dimensions (mm 100.0 x 100.0 x 1	-	IMEI SN: 10	004	DUT Type -	
Exposure Conditions	Position	, Test Distance	Band	Gro	oup,	Frequency [MHz],	Conversion Factor
	[mm]	,	54112		·~p)	Channel Number	
5 G -	10.0 mm	I	Validation band	cw		10000.0, 10000	1.0
Hardware Setup		.					
Phantom mmWave Phantom - 1002		Medium Air			Probe, Calibration Da EUmmWV3 - SN9374_ 2023-12-04		DAE, Callbration Date DAE4ip Sn1602, 2023-11-08
Scan Setup					Measurement Re	sults	
			5G S	Scan			5G Scan
Sensor Surface [mm]				10.0	Date		2024-08-06, 10:05
MAIA			MAIA not ι	ised	Avg. Area [cm²]		4.00
					Avg. Type psPDn+ (W/m²]		Circular Averaging 56.7
					psPDtot+ (W/m ²)		56.9
					psPDmod+ (W/m ²)		57.1
					Max(Sn) [W/m ²]		62.4
					Max(Stot) [W/m²]		62.4
					Max(Stot) [W/m ²]		62.6
					E _{max} [V/m] Bower Drift [dB]		153 -0.01
					Power Drift [dB]		-0.01



Device under Test Prop Name, Manufacturer 5G Verification Source 10 G	Dimensions (mr	Dimensions [mm] 100.0 x 100.0 x 172.0		04	DUT Type -	
Exposure Conditions Phantom Section	Position, Test Distance	Band	Gro	up,	Frequency (MHz),	Conversion Factor
	[mm]			-	Channel Number	
5G -	10.0 mm	Validation band	CW		10000.0, 10000	1.0
Hardware Setup						
Phantom mmWave Phantom - 1002	Medlu m Air			Probe, Calibration Da EUmmWV3 - SN9374_ 2023-12-04		DAE, Calibration Date DAE4ip Sn1602, 2023-11-08
Scan Setup				Measurement Re	sults	
		5G \$	ican			5G Scan
Sensor Surface [mm]			10.0	Date		2024-08-06, 10:05
MAIA		MAIA not u	ised	Avg. Area [cm²]		1.00
				Avg. Type psPDn+ [W/m²]		Square Averaging 60.8
				psPDtot+ (W/m ²)		60.9
				psPDmod+ [W/m ²]		61.1
				Max(Sn) [W/m ²]		62.4
				Max(Stot) [W/m ²]		62.4
				Max(Stot)[W/m²]		62.6
				E _{max} [V/m] Power Drift [dB]		153 -0.01



Device under Test Properties Name, Manufacturer 5G Verification Source 10 GHz		Dim ensions [mm] 100.0 x 100.0 x 172.0		IMEI SN: 1004		DUT Type -	
Exposure Conditions							
Phantom Section	Positio [mm]	n, Test Distance	Band	Gro	up,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mi	m	Validation band	l cw		10000.0, 10000	1.0
Hardware Setup							
Phantom mmWave Phantom - 1002		Medium Air			Probe, Calibration Dat EUmmWV3 - SN9374_ 2023-12-04		DAE, Calibration Date DAE4ip Sn1602, 2023-11-08
Scan Setup					Measurement Re	sults	
				Scan			5G Scan
Sensor Surface [mm]				10.0	Date		2024-08-06, 10:05
MAIA			MAIA not u	used	Avg. Area [cm ²]		4.00
					Avg. Type		Square Averaging
					psPDn+ [W/m²] psPDtot+ [W/m²]		56.6 56.8
					psPDmod+ [W/m ²]		57.0
					Max(Sn) [W/m ²]		62.4
					Max(Stot) [W/m ²]		62.4
					Max(Stot) [W/m ²]		62.6
					E _{max} [V/m]		153
					Power Drift [dB]		-0.01



Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland Iac-mra



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Accreditation No.: SCS 0108

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Client Element

Morgan Hill, USA

Certificate No. CLA13-1004_Nov24

CALIBRATION CERTIFICATE

Object

CLA13 - SN: 1004

Calibration procedure(s)

QA CAL-15.v11 Calibration Procedure for SAR Validation Sources below 700 MHz

Calibration date:

November 11, 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
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
Power sensor NRP-Z91	SN: 103245	26-Mar-24 (No. 217-04037)	Mar-25
Reference 20 dB Attenuator	SN: CC2552 (20x)	26-Mar-24 (No. 217-04046)	Mar-25
Type-N mismatch combination	SN: 310982 / 06327	26-Mar-24 (No. 217-04047)	Mar-25
Reference Probe EX3DV4	SN: 3877	10-Jan-24 (No. EX3-3877_Jan24)	Jan-25
DAE4	SN: 654	18-Oct-24 (No. DAE4-654_Oct24)	Oct-25
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-24)	In house check: Jun-26
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Sep-24)	In house check: Sep-26
	Name	Function	Signature
Calibrated by:	Krešimir Franjić	Laboratory Technician	
Approved by:	Sven Kühn	Technical Manager	5
			Issued: Nevember 11, 2004

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Calibration Laboratory of

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S Swiss Calibration Service

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Accreditation No.: SCS 0108

Glossary:	
TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,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-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	ELI4 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	53.1 ± 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 ³ (1 g) of Head TSL	Condition	
SAR measured	1 W input power	0.561 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	0.575 W/kg ± 18.4 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	1 W input power	0.346 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	0.355 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	56.5 Ω - 0.6 jΩ
Return Loss	- 24.3 dB

Additional EUT Data

Manufactured by		
Manuactured by SPEAG	Manufactured by	SPEAG

DASY5 Validation Report for Head TSL

Date: 11.11.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: CLA13; Type: CLA13; Serial: CLA13 - SN: 1004

Communication System: UID 0 - CW; Frequency: 13 MHz Medium parameters used: f = 13 MHz; $\sigma = 0.72$ S/m; $\varepsilon_r = 53.1$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

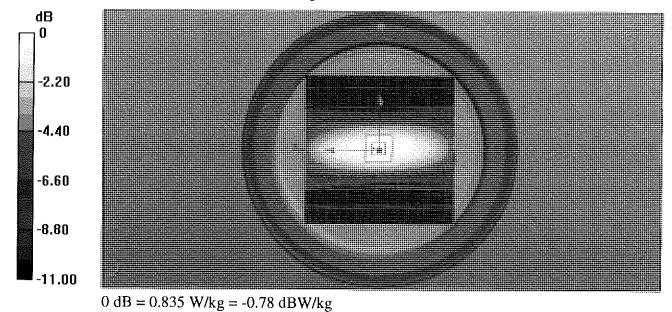
- Probe: EX3DV4 SN3877; ConvF(15.33, 15.33, 15.33) @ 13 MHz; Calibrated: 10.01.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 18.10.2024
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2034
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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 = 31.58 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 1.18 W/kg SAR(1 g) = 0.561 W/kg; SAR(10 g) = 0.346 W/kg Smallest distance from peaks to all points 3 dB below = 16.5 mm

Ratio of SAR at M2 to SAR at M1 = 77.3%

Maximum value of SAR (measured) = 0.835 W/kg



Impedance Measurement Plot for Head TSL

<u>File</u>	<u>/</u> iew <u>C</u> hannel	Sweep Calibration	<u>Trace S</u> cale M <u>a</u>	irker System <u>W</u>	(indow <u>H</u> elp		
Ch	Ch 1 Avg ≈ 20 1: \$tart 10.0000 MH					300 MHz 8.838 nF	56.495 Ω -617.14 mΩ \$top 16.0000 MH₂
5.00	dB SM			> 1	13.000	100 M Hz	-2 ≬ .257 dB
-1.00		1.127 1.129			erfederen an ander an		A / A / / A A A A A A A A A A A A A A A
-7.00					· · · · · · · · · · · · · · · · · · ·		
-13.00							
-16.00 -19.00							
-13.00							
-22.00		1 2					Stop 16,0000 MHz

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Element

Client



Schweizerischer Kallbrierdienst

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- S **Swiss Calibration Service**

Accreditation No.: SCS 0108

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Certificate No: D1750V2-1083_May22

CALIBRATION CERTIFICATE

Object	D1750V2 - SN:1()83	ATH		
Calibration procedure(s)	QA CAL-05.v11 Calibration Proce	edure for SAR Validation Sources	AT M 6///21 between 0.7-3 GHz		
			🗸 YW 5/31/2024		
Calibration date:	May 10, 2022				
			✓ YW 5/24/2023		
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	E 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: BH9394 (20k)	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: 7349	31-Dec-21 (No. EX3-7349_Dec21)	Dec-22		
DAE4	SN: 601	02-May-22 (No. DAE4-601_May22)	May-23		
Secondary Standards	ID #	Check Date (in house)	Scheduled Check		
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-20)	In house check: Oct-22		
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-20)	In house check: Oct-22		
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-20)	In house check: Oct-22		
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-20)	In house check: Oct-22		
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22		
	Name	Function	Signature		
Calibrated by:	Joanna Lleshaj	Laboratory Technician			
,			Affling		
Approved by:	Sven <u>K</u> ühn	Technical Manager	GL		
This calibration certificate shall not	be reproduced except in	full without written approval of the laboratory.	Issued: May 11, 2022		

Calibration Laboratory of

Closean

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Accreditation No.: SCS 0108

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

Multilateral Agreement for the recognition of calibration certificates

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- 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

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- 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.
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- 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 0 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.

	, 15	
DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1750 MHz ± 1 MHz	,,

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.1	1.37 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.9 ± 6 %	1.34 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		<i>at 10</i> 7 7

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.07 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	36.5 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.79 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	19.2 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.4	1.49 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.5 ± 6 %	1.44 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.23 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	37.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	4.99 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.2 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.7 Ω - 0.2 jΩ
Return Loss	- 42.3 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.5 Ω - 0.9 jΩ
Return Loss	- 28.6 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.220 ns

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	SDEAC
	JF LAO

DASY5 Validation Report for Head TSL

Date: 10.05.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1083

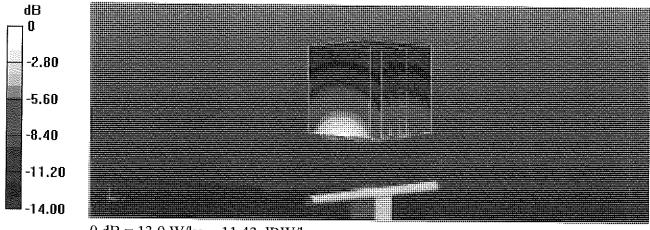
Communication System: UID 0 - CW; Frequency: 1750 MHz Medium parameters used: f = 1750 MHz; $\sigma = 1.34$ S/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.67, 8.67, 8.67) @ 1750 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.05.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 106.7 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 16.8 W/kg SAR(1 g) = 9.07 W/kg; SAR(10 g) = 4.79 W/kg Smallest distance from peaks to all points 3 dB below = 10 mm Ratio of SAR at M2 to SAR at M1 = 54.5% Maximum value of SAR (measured) = 13.9 W/kg



0 dB = 13.9 W/kg = 11.43 dBW/kg

Impedance Measurement Plot for Head TSL

	1: 1.750000 GHz 479.43 pF 1.750000 GHz	-189.69 mΩ
Ch 1 Avg = 20 Ch 1: Start 1.55000 GHz	> 1: 1.750000 CHz	stop 1.95000 GHz -42.341 dB
5.00 -19.00 -15.00 -20.00		
-25.00	<u> </u>	

DASY5 Validation Report for Body TSL

Date: 10.05.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1083

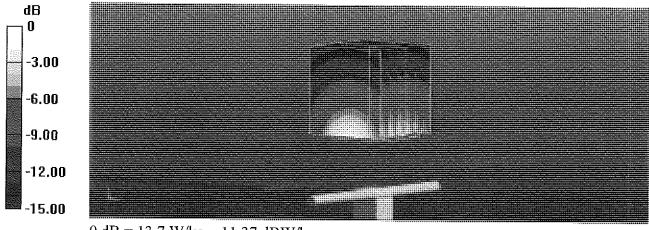
Communication System: UID 0 - CW; Frequency: 1750 MHz Medium parameters used: f = 1750 MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.48, 8.48, 8.48) @ 1750 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.05.2022
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 102.3 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 16.5 W/kg SAR(1 g) = 9.23 W/kg; SAR(10 g) = 4.99 W/kg Smallest distance from peaks to all points 3 dB below = 10 mm Ratio of SAR at M2 to SAR at M1 = 56.9% Maximum value of SAR (measured) = 13.7 W/kg



0 dB = 13.7 W/kg = 11.37 dBW/kg

Impedance Measurement Plot for Body TSL

Ch1: Start 1.55000 GHz Stop 1.95000 GHz 10.00 10.00 5.00 1.750000 CHz -28.600 dE 0.00 - 5.00 - - 10.00 - - - 10.00 - - - 5.00 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <th>Ch 1 Avg = 20</th> <th><u>Trace Scale Marker System Window Help</u> 1.750000 GHz 46.532 99.636 pF -912.78 r 1.750000 GHz 37.153 r -164.7</th> <th>nΩ nU</th>	Ch 1 Avg = 20	<u>Trace Scale Marker System Window Help</u> 1.750000 GHz 46.532 99.636 pF -912.78 r 1.750000 GHz 37.153 r -164.7	nΩ nU
5.00	Ch1: \$tart 1.55000 GH2		GHz
	5.00	> 1: 1.750000 CHz -28,600	dB
	······································		
35.00 35.00 <td< th=""><th>-15.00</th><th></th><th>_</th></td<>	-15.00		_



Element Materials Technology (formerly PCTEST) 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.408.538.5600 http://www.element.com



Certification of Calibration

Object

D1750V2 – SN: 1083

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extended Calibration date: May 10, 2023

Description:

SAR Validation Dipole at 1750 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/14/2022	Annual	6/14/2023	US39170118
Agilent	E4438C	ESG Vector Signal Generator	11/17/2022	Annual	11/17/2023	MY45093852
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Rohde & Schwarz	NRX	Power Meter	1/11/2023	Annual	1/11/2024	102583
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	5/19/2022	Annual	5/19/2023	106562
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	5/19/2022	Annual	5/19/2023	106559
Traceable	4040 90080-06	Therm./ Clock/ Humidity Monitor	5/11/2022	Biennial	5/11/2024	221514974
Control Company	4353	Long Stem Thermometer	9/10/2021	Biennial	9/10/2023	210774685
Agilent	85033E	3.5mm Standard Calibration Kit	6/21/2022	Annual	6/21/2023	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	8/15/2022	Annual	8/15/2023	1041
SPEAG	EX3DV4	SAR Probe	2/13/2023	Annual	2/13/2024	7427
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/15/2023	Annual	2/15/2024	1403

Measurement Uncertainty = $\pm 23\%$ (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer I	AC
Approved By:	Greg Snyder	Executive VP of Operations	Lugo Mal

Object:	Date Issued:	Page 1 of 4
D1750V2 – SN: 1083	05/10/2023	Fage 1014

DIPOLE CALIBRATION EXTENSION

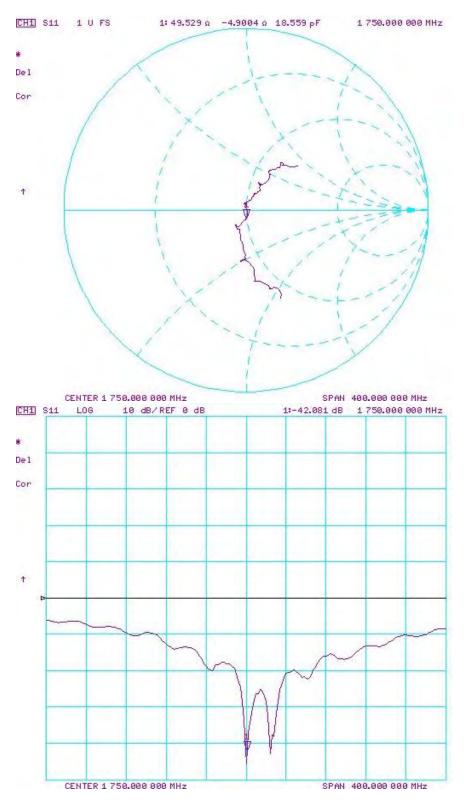
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

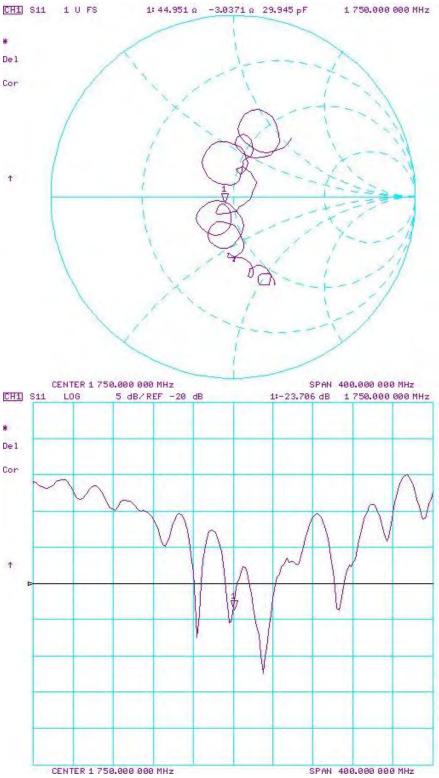
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	Measured Head SAR (1g) W/kg @ 20.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Measured Head	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real		Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary		Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
5/10/2022	5/10/2023	1.22	3.65	3.71	1.64%	1.92	1.99	3.65%	50.7	49.5	1.2	-0.2	-4.9	4.7	-42.3	-42.1	0.50%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 20.0 dBm	Measured Body SAR (1g) W/kg @ 20.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	Measured Body SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
5/10/2022	5/10/2023	1.22	3.76	3.88	3.19%	2.02	2.05	1.49%	46.5	45.0	1.5	-0.9	-3.0	2.1	-28.6	-23.7	17.10%	PASS

Object:	Date Issued:	Page 2 of 4
D1750V2 – SN: 1083	05/10/2023	Page 2 of 4



Impedance & Return-Loss Measurement Plot for Head TSL

Object:	Date Issued:	Daga 2 of 4
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Impedance & Return-Loss Measurement Plot for Body TSL

Object:	Date Issued:	Page 4 of 4
D1750V2 – SN: 1083	05/10/2023	Page 4 of 4



ELEMENT MATERIALS TECHNOLOGY

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Certification of Calibration

Object

D1750V2 – SN: 1083

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: May 10, 2024

Description:

SAR Validation Dipole at 1750 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/2/2023	Annual	6/12/2024	MY40003841
Agilent	E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
Amplifier Research	15\$1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2496A	Power Meter	6/15/2023	Annual	6/15/2024	1138001
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	2018527
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	1827528
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Control Company	4353	Ultra Long Stem Thermometer	10/24/2023	Annual	10/24/2024	200645916
Agilent	85033E	3.5mm Standard Calibration Kit	7/18/2023	Annual	7/18/2024	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	9/11/2023	Annual	9/11/2024	1045
SPEAG	EX3DV4	SAR Probe	3/11/2024	Annual	3/11/2025	7421
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/6/2024	Annual	3/6/2025	604

Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer	AS
Approved By:	Greg Snyder	Executive VP of Operations	Lugo March

Object:	Date Issued:	Page 1 of 3
D1750V2 – SN: 1083	05/10/2024	Page 1 of 3

DIPOLE CALIBRATION EXTENSION

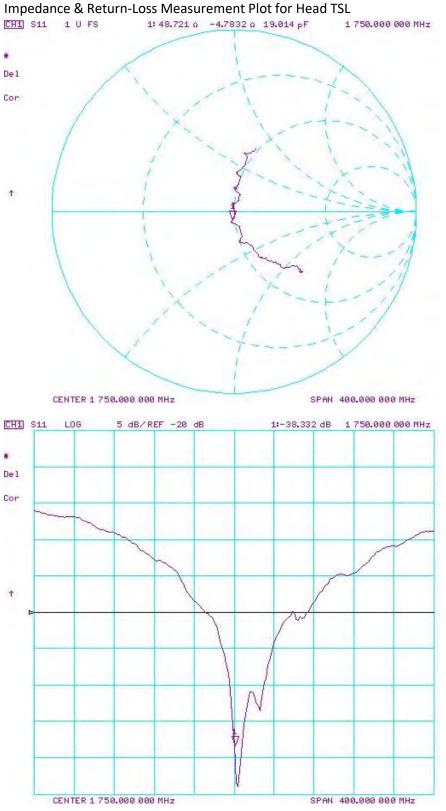
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from the calibration date:

Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	Measured Head SAR (1g) W/kg @ 20.0 dBm		Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Measured Head SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real			Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)
5/10/2022	5/10/2024	1.22	3.65	3.82	4.66%	1.92	2.03	5.73%	50.7	48.7	2	-0.2	-4.8	4.6	-42.3	-38.3	9.40%

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Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland BC-MRA (



- C Service suisse d'étalonnage
- Servizio svizzero di taratura
 Swiss Calibration Service

Certificate No. D1900V2-5d181_Sep23

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 Element Morgan Hill, USA

CALIBRATION C	ERTIFICAT		
Object	D1900V2 - SN:5	d181	Atm
Calibration procedure(s)	QA CAL-05.v12 Calibration Proc	edure for SAR Validation Source	9/ <i>38/2073</i> es between 0.7-3 GHz
			VW 10/11/2024
Calibration date:	September 07, 2		
The measurements and the uncert	ainties with confidence p ed in the closed laborato	onal standards, which realize the physical u robability are given on the following pages a ry facility: environment temperature (22 ± 3)°	nd are part of the certificate.
Primary Standards	ID #	Cal Date (Certificate No.)	Sebadulad Calibratian
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Scheduled Calibration Mar-24
ower sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24 Mar-24
ower sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24 Mar-24
eference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
ype-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24 Mar-24
eference Probe EX3DV4	SN: 7349	10-Jan-23 (No. EX3-7349_Jan23)	Jan-24
AE4	SN: 601	19-Dec-22 (No. DAE4-601_Dec22)	Dec-23
econdary Standards	ID #	Check Date (in house)	Scheduled Check
ower meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
ower sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
ower sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
F generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	in house check: Oct-24
etwork Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
	Name	Function	Signature
alibrated by:	Krešimir Franjić	Laboratory Technician	- Alexandre
pproved by:	Sven Kühn	Technical Manager	S.
nis calibration certificate shall not b	e reproduced except in t	ull without written approval of the laboratory	Issued: September 8, 2023

Calibration Laboratory of

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





S Schweizerischer 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
ConvF	sensitivity in TSL / NORM x,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-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	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	nno
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.9 ± 6 %	1.40 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.98 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	39.9 W/kg ± 17.0 % (k=2)
	·····	
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	····
SAR averaged over 10 cm ³ (10 g) of Head TSL SAR measured	condition 250 mW input power	5.27 W/kg

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.9 ± 6 %	1.51 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	-	

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.89 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	39.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.20 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.8 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	53.0 Ω + 5.2 jΩ
Return Loss	- 24.7 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.6 Ω + 5.0 jΩ
Return Loss	- 24.9 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.204 ns
	1.204 IIS

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
	J SFEAG

DASY5 Validation Report for Head TSL

Date: 07.09.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d181

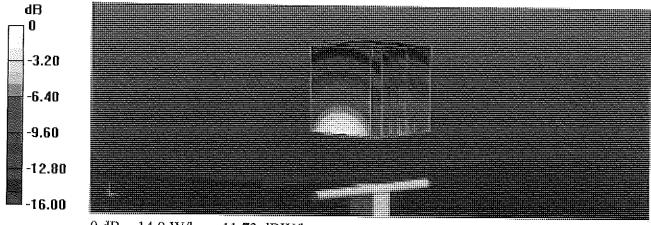
Communication System: UID 0 - CW; Frequency: 1900 MHz Medium parameters used: f = 1900 MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.35, 8.35, 8.35) @ 1900 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 109.7 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 18.1 W/kg **SAR(1 g) = 9.98 W/kg; SAR(10 g) = 5.27 W/kg** Smallest distance from peaks to all points 3 dB below = 10 mm Ratio of SAR at M2 to SAR at M1 = 56% Maximum value of SAR (measured) = 14.9 W/kg



0 dB = 14.9 W/kg = 11.73 dBW/kg

Impedance Measurement Plot for Head TSL

Eile Vie	ew <u>C</u> hannel Sw <u>e</u> ep	Calibration <u>T</u> race <u>S</u> cale	Marker System <u>W</u> ind	ow <u>H</u> elp	
	Ch 1 Avg = 20			1.900000 GHz 432.52 pH 1.900000 GHz	53.003 Ω 5.1634 Ω 57.919 mU 56.946 °
Ch1:	Start 1.70000 GHz			an san kalunan si ku ku s	8top 2.10000 GHz
	Contraction of the second s	and a second			
10.00 5.00 0.00 -5.00			> 1:	1.900000 CHz	-24.744 dB
5.00 0.00				1.900000 CHz	-24.744 dB
5,00 0,00 -5,00 -10,00 -15,00				1.900000 CHz	-24.744 dB
5,00 0,00 -5.00 -10.00 -15.00 -20.00 -25.00 -35.00 -35.00 -40.00	BB S11			1.900000 CHz	-24.744 dB

DASY5 Validation Report for Body TSL

Date: 07.09.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d181

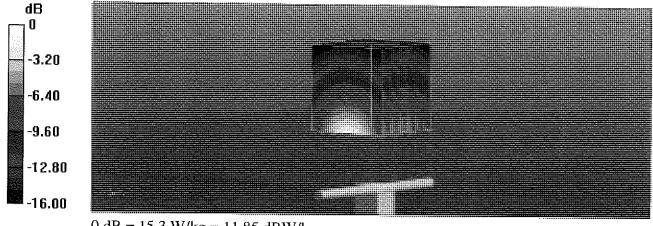
Communication System: UID 0 - CW; Frequency: 1900 MHz Medium parameters used: f = 1900 MHz; $\sigma = 1.51$ S/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.42, 8.42, 8.42) @ 1900 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 103.4 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 18.2 W/kg SAR(1 g) = 9.89 W/kg; SAR(10 g) = 5.2 W/kg Smallest distance from peaks to all points 3 dB below = 9 mm Ratio of SAR at M2 to SAR at M1 = 55.3% Maximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg = 11.85 dBW/kg

Impedance Measurement Plot for Body TSL

<u>File V</u> ie	w <u>C</u> hannel 9	Sweep Calibration	n <u>T</u> race <u>S</u> ca	ale M <u>a</u> rker Syster	n <u>W</u> indow <u>H</u>	<u>l</u> elp	
Ch1:	Ch 1 Avg ≂ 20 Start 1.70000 GHa	1	A		\sum	900000 GHz 418.28 pH 900000 GHz	47.573 Ω 4.9932 Ω 56.826 mU 113.00 °
						14200400-0000000000000000000000000000000	
10.00	dB \$11				> 1: 1.8	00000 dHz	-2 4 ,909,481
10.00 5.00 0.00	dB \$11				> 1: 1.5	00000 GHz	-24.909 dB
5.00 0.00 -5.00						100000 GHz	-24.909 dB
5.00 0.00			22 -		> 1: 1.C	100000 GHz	-24.909 dB
5.00 0.00 -5.00 -10.00						00000 GHz	-24.909 dB
5.00 0.00 -5.00 -10.00 -15.00 -20.00					× 1: 1.0		-24.909 dB
5.00 0.00 -5.00 -10.00 -15.00 -20.00 -25.00 -30.00						00000 GHz	-24.909 dB
5.00 0.00 -5.00 -10.00 -25.00 -25.00 -30.00 -35.00 -40.00	Ch 1 Avg = 20						-24.909 dB
5.00 0.00 -5.00 -10.00 -25.00 -25.00 -30.00 -35.00 -40.00							-24.909 dB



ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST) 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.408.538.5600 http://www.element.com



Certification of Calibration

Object

D1900V2 - SN: 5d181

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: September 07, 2024

Description:

SAR Validation Dipole at 1900 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Hewlett Packard	8753E	RF Vector Network Analyzer	5/21/2024	Annual	5/21/2025	US38161081
Agilent	E4438C	ESG Vector Signal Generator	5/19/2024	Annual	5/19/2025	US41460739
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2496A	Power Meter	7/15/2024	Annual	7/15/2025	1138001
Anritsu	MA2411B	Pulse Power Sensor	7/10/2024	Annual	7/10/2025	1126066
Anritsu	MA2411B	Pulse Power Sensor	7/1/2024	Annual	7/1/2025	1911105
Traceable	4040 90080-06	Therm./ Clock/ Humidity Monitor	1/15/2024	Annual	1/15/2025	160574418
Control Company	4352	Ultra Long Stem Thermometer	1/15/2024	Annual	1/15/2025	160508097
Agilent	85033E	3.5mm Standard Calibration Kit	7/31/2024	Annual	7/31/2025	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/14/2024	Annual	5/14/2025	1070
SPEAG	EX3DV4	SAR Probe	2/9/2024	Annual	2/9/2025	7308
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/15/2024	Annual	1/15/2025	1465

Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer	AG
Approved By:	Greg Snyder	Executive VP of Operations	Lugg M. S.

Object:	Date Issued:	Page 1 of 3
D1900V2 – SN: 5d181	09/07/2024	Page 1 of 3

DIPOLE CALIBRATION EXTENSION

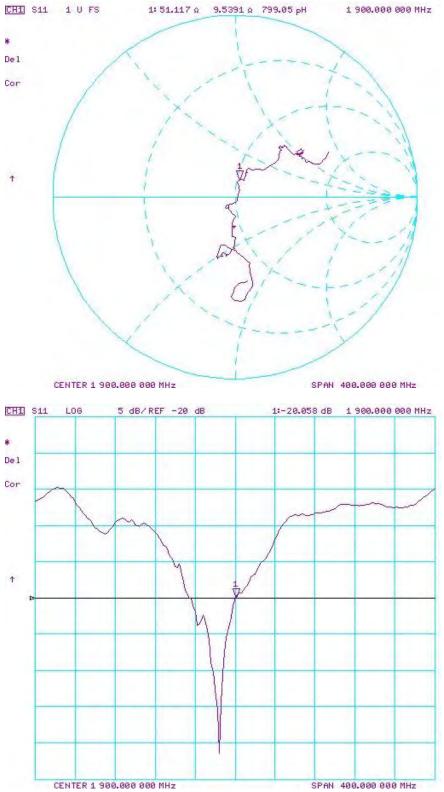
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

Calibration Date	Extension Date	Electrical	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	W/kg @ 20.0	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Head SAR (10a) W/ka @	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real				Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)
9/7/2023	9/7/2024	1.204	3.99	3.79	-5.01%	2.11	1.97	-6.64%	53	51.1	1.9	5.2	9.5	4.3	-24.7	-20.1	18.80%

Object:	Date Issued:	Page 2 of 3
D1900V2 – SN: 5d181	09/07/2024	rage 2 01 5



Impedance & Return-Loss Measurement Plot for Head TSL

Object:	Date Issued:	Page 3 of 3
D1900V2 – SN: 5d181	09/07/2024	rage 3 01 3

Calibration Laboratory of

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





Schweizerischer Kalibrierdienst

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Swiss Calibration Service

Certificate No. D2300V2-1038_Mar24

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 Element Morgan Hill, USA

CALIBRATION CERTIFICATE

Object	D2300V2-SN:1038
Calibration procedure(s)	QA CAL-05.v12 Calibration Procedure for SAR Validation Sources between 0.7-3 GHz
Calibration date:	March 11, 2024
	ments the traceability to national standards, which realize the physical units of measurements (SI). certainties with confidence probability are given on the following pages and are part of the certificate.
All calibrations have been cond	ucted in the closed laboratory facility: environment temperature (22 \pm 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	03-Nov-23 (No. EX3-7349_Nov23)	Nov-24
DAE4	SN: 601	30-Jan-24 (No. DAE4-601_Jan24)	Jan-25
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E44198	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-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:	Leif Klysner	Laboratory Technician	Sel Million
			- y i rup
Approved by:	Sven Kühn	Technical Manager	Se Z
			Issued: March 12, 2024
This calibration certificate shall not	be reproduced except in	full without written approval of the laboratory	

Calibration Laboratory of

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





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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

Glossarv:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,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-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	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2300 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.5	1.67 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.0 ± 6 %	1.67 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	12.3 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	49.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.93 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.7 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	48.7 Ω - 4.5 jΩ
Return Loss	- 26.4 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.170 ns

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	I SPEAG I

DASY5 Validation Report for Head TSL

Date: 11.03.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1038

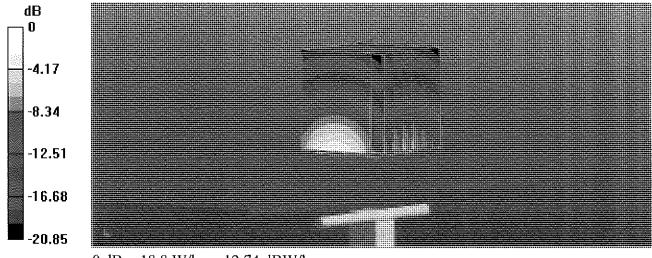
Communication System: UID 0 - CW; Frequency: 2300 MHz Medium parameters used: f = 2300 MHz; $\sigma = 1.67$ S/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.98, 7.98, 7.98) @ 2300 MHz; Calibrated: 03.11.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.01.2024
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 116.0 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 22.8 W/kg SAR(1 g) = 12.3 W/kg; SAR(10 g) = 5.93 W/kg Smallest distance from peaks to all points 3 dB below = 9 mm Ratio of SAR at M2 to SAR at M1 = 55.1% Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.74 dBW/kg

Impedance Measurement Plot for Head TSL

<u>File View Channel Swe</u> e	p Calibration Ira	ce <u>S</u> cale M <u>a</u> rker	System <u>W</u> ind	ow <u>H</u> elp	
				2.300000 GHz 15.249 pF 2.300000 GHz	48.713 Ω -4.5378 Ω 47.732 mU -103.20 °
Ch 1 Avg = 20 Ch 1: Start 2.10000 GHz	100001111994	· · · · · · · · · · · · · · · · · · ·	1		Stop 2.50000 GHz
10.00 38.511 5.00					-26.424 dB
Ch1: Start 2.10000 GHz		Port	Avg=20 Delay		Stop 2,50000 GHz

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Client

Element Morgan Hill, USA Certificate No.

D2450V2-921_Oct24

CALIBRATION CERTIFICATE

Object	D2450V2 - SN: 921
Calibration procedure(s)	QA CAL-05.v12 Calibration Procedure for SAR Validation Sources between 0.7 - 3 GHz
Calibration date	October 23, 2024
This calibration certificate doo The measurements and the u	cuments the traceability to national standards, which realize the physical units of measurements (SI). ncertainties with confidence probability are given on the following pages and are part of the certificate.
All calibrations have been cor	nducted in the closed laboratory facility: environment temperature $(22\pm3)^{\circ}$ C and humidity < 70%.
Calibration Equipment used (I	M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Cal
Power Sensor R&S NRP-33T	SN: 100967	28-Mar-24 (No. 217-04038)	Mar-25
Power Sensor R&S NRP18A	SN: 101859	22-Jul-24 (No. 4030A315008547)	Jul-25
Spectrum Analyzer R&S FSV40	SN: 101832	25-Jan-24 (No. 4030-315007551)	Jan-25
Mismatch; Short [S4188] Attenuator [S4423]	SN: 1152	28-Mar-24 (No. 217-04050)	Mar-25
OCP DAK-12	SN: 1016	24-Sep-24 (No. OCP-DAK12-1016_Sep24)	Sep-25
OCP DAK-3.5	SN: 1249	23-Sep-24 (No. OCP-DAK3.5-1249_Sep24)	Sep-25
Reference Probe EX3DV4	SN: 7349	03-Jun-24 (No. EX3-7349_Jun24)	Jun-25
DAE4ip	SN: 1836	10-Jan-24 (No. DAE4ip-1836 Jan24)	Jan-25

Secondary Standards	ID	Check Date (in house)	Scheduled Check
ACAD Source Box	SN: 1000	28-May-24 (No. 675-ACAD_Source_Box-240528)	May-25
Signal Generator R&S SMB100A	SN: 182081	28-May-24 (No. 675-CAL16-S4588-240528)	May-25
Mismatch; SMA	SN: 1102	22-May-24 (No. 675-Mismatch_SMA-240522)	May-25

	Name	Function	Signature	
Calibrated by	Paulo Pina	Laboratory Technician		
Approved by	Sven Kühn	Technical Manager	Ser	
This calibration certificate s	hall not be reproduced except	in full without written approval of	Issued: October 23, 2024 the laboratory.	

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





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

Calibration is Performed According to the Following Standards

- 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.
- · KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation

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 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%.

Measurement Conditions

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

DASY Version	/ Version DASY8 Module SAR	
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with spacer
Zoom Scan Resolution	dx, dy = 5mm, dz = 1.5mm	Graded Ratio = 1.5 mm (Z direction)
Frequency	2450MHz ±1MHz	

Head TSL parameters at 2450 MHz

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	37.7 ±6%	1.82 mho/m ±6%
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 2450 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	24 dBm input power	13.1 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.2 W/kg ±17.0% (k = 2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	24 dBm input power	6.11 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.3 W/kg ±16.5% (k = 2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 2450 MHz

Impedance	50.9 Ω + 4.8 jΩ
Return Loss	-26.3 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	
	1.15/ ns

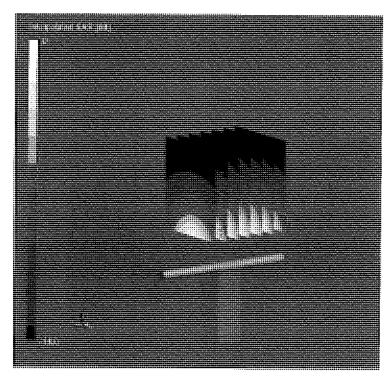
After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured. The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited 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

	r
Manufactured by	SPEAG
wandiactored by	SPEAG

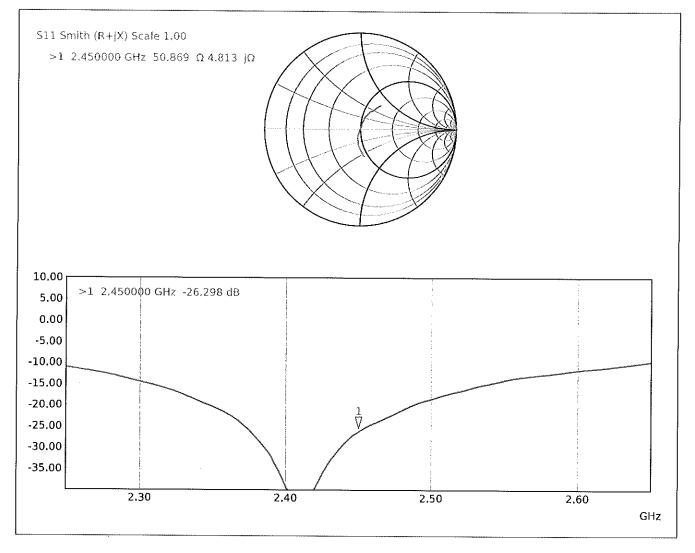
System Performance Check Report

Summary										
Dipole		Fr	equency (MHz)]		TSL	Power (dBm)			
D2450V2 ~ \$N921		24	50			H\$L	24			
Exposure Conditior	15									
Phantom Section, TSL	Test Distance (mm)	Band	Group, VID	Frequency (M	/Hz], Cha	nnel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	
Flat	10		C₩, 0	2450, 0			7.24	1,82	37.7	
Hardware Setup										
Phantom	TSL, Measured Da	ite	Pr	obe, Calibration	n Date		DAE, Calibration Date			
MFP V8.0 Right	HSL, 2024-10-23	•	EX	3DV4 - SN7349	9, 2024-1	06-03	DAE4	DAE4ip Sn1836, 2024-01-10		
Scans Setup					ľ	Measuremen	t Results			
				Zoom Scan	•				Zoom Scar	
Grid Extents [mm]			-	30 x 30 x 30	-	Date		· · · · · · · · · · · · · · · · · · ·	2024-10-23	
Grid Steps [mm]			5.1	0 x 5.0 x 1.5	-	psSAR1g [W/K	(Kg]		13.1	
Sensor Surface (mm)				1.4	-	psSAR10g (W/1	(g]		6.11	
Graded Grid				Yes	-	Power Drift (dB]		0.01	
Grading Ratio			1.5 Power Scaling		Power Scaling			Disablec		
MAIA				N/A	-	Scaling Factor	[d8]			
Surface Detection				VMS + 6p	-	TSL Correction			Positive / Negative	
Scan Method				Measured	-					



0 dB = 27.3 W/Kg

Impedance Measurement Plot for Head TSL



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



Schweizerischer Kalibrierdienst

- S Service suisse d'étalonnage
- С 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

Certificate No: D2450V2-750_May22

Element

Client

CALIBRATION C	ERTIFICATI		
Object	D2450V2 - SN:7	50	VATUR 611 (2)
Calibration procedure(s)	QA CAL-05.v11 Calibration Proce	dure for SAR Validation Sources	עאן איז
Calibration date:	Maγ 11, 2022		✓ YW 5/22/2023
			VW 5/31/2024
The measurements and the uncertain	ainties with confidence p ad in the closed laborator	onal standards, which realize the physical un robability are given on the following pages an y facility: environment temperature (22 ± 3)°(id are part of the certificate.
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)	Арг-23
Power sensor NRP-Z91	SN: 103245	04-Apr-22 (No. 217-03525)	Apr-23
Reference 20 dB Attenuator	SN: BH9394 (20k)	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: 7349	31-Dec-21 (No. EX3-7349 Dec21)	Dec-22
DAE4	SN: 601	02-May-22 (No. DAE4-601_May22)	May-23
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-20)	In house check: Oct-22
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22
	Name	Function	Signature
Calibrated by:	Aidonia Georgiadou	Laboratory Technician	MZ
Approved by:	Sven Kühn	Technical Manager	SLF-
This calibration certificate shall not	be reproduced except in	full without written approval of the laboratory	lssued: May 12, 2022

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





Schweizerischer Kalibrierdienst

S Service suisse d'étalonnage С

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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:

wideed g	
TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,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-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 0 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. 0
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna 0 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	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	***************************************
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	38.2 ± 6 %	1.85 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.4 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.20 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.5 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.5 ± 6 %	2.02 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.9 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.5 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.04 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.9 ₩/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	54.8 Ω + 8.1 jΩ
Return Loss	- 21.0 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	50.8 Ω + 8.7 jΩ
Return Loss	- 21.3 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.153 ns

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
	J JFLAG

DASY5 Validation Report for Head TSL

Date: 11.05.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:750

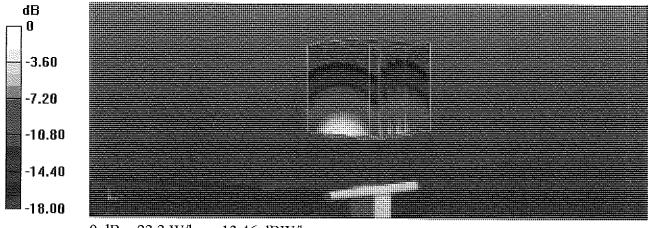
Communication System: UID 0 - CW; Frequency: 2450 MHz Medium parameters used: f = 2450 MHz; $\sigma = 1.85$ S/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.96, 7.96, 7.96) @ 2450 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.05.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 116.5 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 26.8 W/kg SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.2 W/kg Smallest distance from peaks to all points 3 dB below = 9 mm Ratio of SAR at M2 to SAR at M1 = 50% Maximum value of SAR (measured) = 22.2 W/kg



0 dB = 22.2 W/kg = 13.46 dBW/kg

Impedance Measurement Plot for Head TSL

<u>Eile View Channel Swe</u> ep Calibra	on <u>T</u> race <u>S</u> cale Marker System <u>W</u> indow <u>H</u> elp
Ch 1 Avg = 20	1: 2.450000 GHz 54.753 Ω 527.78 pH 8.1248 Ω 2.450000 GHz 89.589 mU 55.235 °
Ch1: Start 2,25000 GHz	Stop 2.65000 GHz
10.00 68 511 5.00 0.00 5.00	> 1: 2.450000 CHz -20.955 dB
10.00 15.00 20.00	
-25.00 30.00 -35.00	
40.00 Ch 1 Avg = 20 Ch 1: Start 2.25000 GHz	Stop 2.65000 GHz
Status CH 1: S11	C [*] 1-Poit Avg=20 Delay

DASY5 Validation Report for Body TSL

Date: 11.05.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:750

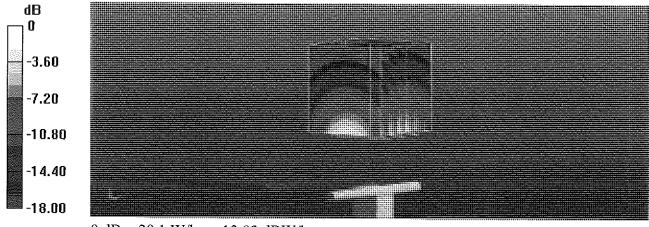
Communication System: UID 0 - CW; Frequency: 2450 MHz Medium parameters used: f = 2450 MHz; $\sigma = 2.02$ S/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.12, 8.12, 8.12) @ 2450 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.05.2022
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 106.7 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 24.3 W/kg SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.04 W/kg Smallest distance from peaks to all points 3 dB below = 8.9 mm Ratio of SAR at M2 to SAR at M1 = 54% Maximum value of SAR (measured) = 20.1 W/kg



0 dB = 20.1 W/kg = 13.03 dBW/kg

Impedance Measurement Plot for Body TSL

		A	XXX		1	2.450000 562.1 2.450000	9 pH	85.	i0,764).6542 .904 m 80.04)
Ch 1 Avg = h1: Start 2.25000			·····					Stop	2.65000 0
	 			.> 1	2	.450000 (<u>GHz</u>	-2	.320 c
)				> 1	2	450000 (-2	.320 (



Element Materials Technology Morgan Hill 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.410.290.6652 / Fax +1.410.290.6654 http://www.element.com



Certification of Calibration

Object

D2450V2 - SN: 750

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extended Calibration date:

May 11, 2023

Description:

SAR Validation Dipole at 2450 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/14/2022	Annual	6/14/2023	US39170118
Agilent	E4438C	ESG Vector Signal Generator	11/17/2022	Annual	11/17/2023	MY45093852
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Rohde & Schwarz	NRX	Power Meter	1/11/2023	Annual	1/11/2024	102583
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	5/19/2022	Annual	5/19/2023	106562
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	5/19/2022	Annual	5/19/2023	106559
Traceable	4040 90080-06	Therm./ Clock/ Humidity Monitor	5/11/2022	Biennial	5/11/2024	221514974
Control Company	4353	Long Stem Thermometer	9/10/2021	Biennial	9/10/2023	210774685
Agilent	85033E	3.5mm Standard Calibration Kit	6/21/2022	Annual	6/21/2023	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	8/15/2022	Annual	8/15/2023	1041
SPEAG	EX3DV4	SAR Probe	2/13/2023	Annual	2/13/2024	7427
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/15/2023	Annual	2/15/2024	1403

Measurement Uncertainty = $\pm 23\%$ (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer I	AC
Approved By:	Greg Snyder	Executive VP of Operations	Lugo Mark

Object:	Date Issued:	Page 1 of 4
D2450V2 – SN: 750	05/11/2023	Page 1 of 4

DIPOLE CALIBRATION EXTENSION

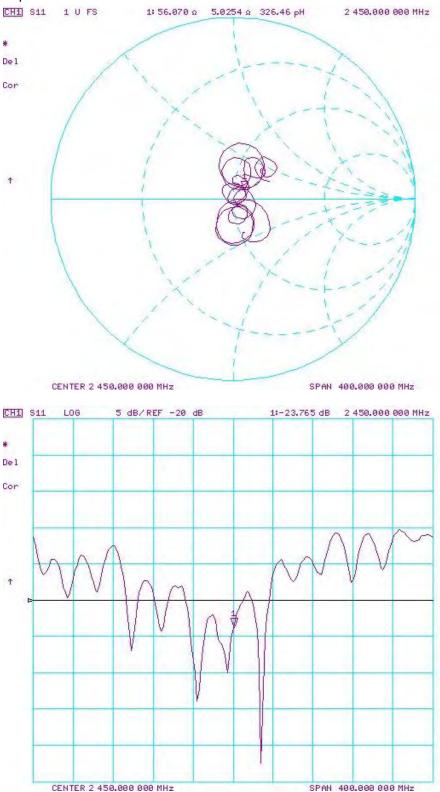
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

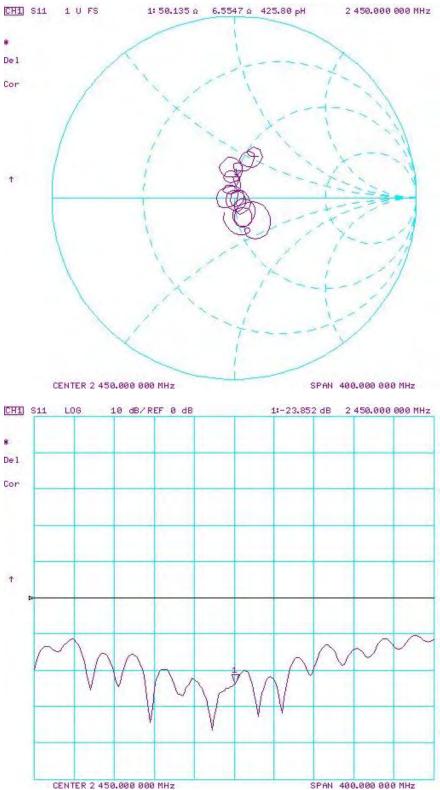
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	Measured Head SAR (1g) W/kg @ 20.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Measured Head	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real		Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary		Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
5/11/2022	5/11/2023	1.153	5.26	4.89	-7.03%	2.45	2.28	-6.94%	54.8	56.1	1.3	8.1	5	3.1	-21	-23.8	-13.20%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 20.0 dBm	Measured Body SAR (1g) W/kg @ 20.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	Measured Body SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
5/11/2022	5/11/2023	1.153	5.05	4.76	-5.74%	2.39	2.26	-5.44%	50.8	50.1	0.7	8.7	6.6	2.1	-21.3	-23.9	-12.00%	PASS

Object:	Date Issued:	Page 2 of 4
D2450V2 – SN: 750	05/11/2023	Page 2 of 4



Impedance	ce &	Retu	rn-Loss Measu	irement F	Plot for	Head TS	L
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Object:	Date Issued:	Page 3 of 4
D2450V2 – SN: 750	05/11/2023	Page 3 of 4



Impedance & Return-Loss Measurement Plot for Body TSL

Object:	Date Issued:	Dage 4 of 4
D2450V2 – SN: 750	05/11/2023	Page 4 of 4



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Certification of Calibration

Object

D2450V2 – SN: 750

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: May 11, 2024

Description:

SAR Validation Dipole at 2450 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/2/2023	Annual	6/12/2024	MY40003841
Agilent	E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2496A	Power Meter	6/15/2023	Annual	6/15/2024	1138001
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	2018527
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	1827528
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Control Company	4353	Ultra Long Stem Thermometer	10/24/2023	Annual	10/24/2024	200645916
Agilent	85033E	3.5mm Standard Calibration Kit	7/18/2023	Annual	7/18/2024	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	9/11/2023	Annual	9/11/2024	1045
SPEAG	EX3DV4	SAR Probe	3/11/2024	Annual	3/11/2025	7638
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/6/2024	Annual	3/6/2025	1408

Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer	AS
Approved By:	Greg Snyder	Executive VP of Operations	Sugged Syl

Object:	Date Issued:	Page 1 of 3
D2450V2 – SN: 750	05/11/2024	Page 1 of 3

DIPOLE CALIBRATION EXTENSION

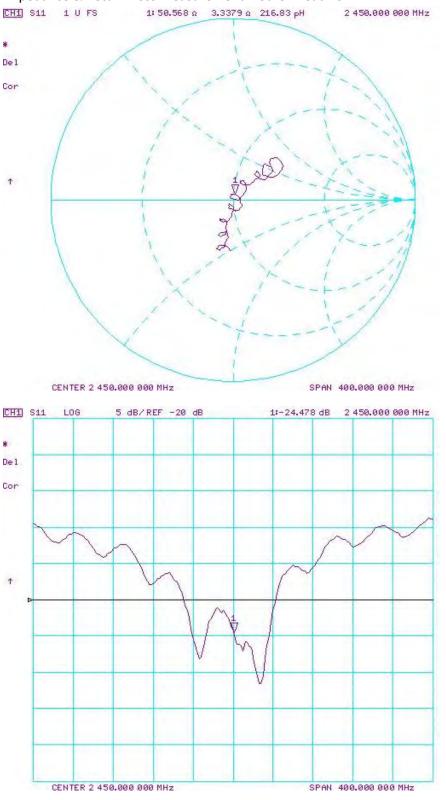
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from the calibration date:

Calibration Date	Extension Date		Certificate SAR Target Head (1g) W/kg @ 20.0 dBm		Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm		Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real		Certificate Impedance Head (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)
5/11/2022	5/11/2024	1.153	5.26	5.19	-1.33%	2.45	2.33	-4.90%	54.8	50.6	4.2	8.1	3.3	4.8	-21	-24.5	-16.60%

Object:	Date Issued:	Page 2 of 3
D2450V2 – SN: 750	05/11/2024	rage 2 01 5



Impedance & Return-Loss Measurement Plot for Head TSL

Object:	Date Issued:	Dogo 2 of 2
D2450V2 – SN: 750	05/11/2024	Page 3 of 3

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

Element

Client



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- 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

Certificate No: D2600V2-1042_May22

ALIBRATION CERTIFICATE C

Object	D2600V2 - SN:10	042	VATM
Calibration procedure(s)	QA CAL-05.v11 Calibration Proce	edure for SAR Validation Sources	between 0.7-3 GHz
Calibration date:	May 11, 2022		✓ YW 5/22/2023✓ YW 6/11/2024
		onal standards, which realize the physical uni obability are given on the following pages and	
All calibrations have been conducte	ed in the closed laborator	y facility: environment temperature (22 ± 3)°C	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: BH9394 (20k)	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: 7349	31-Dec-21 (No. EX3-7349_Dec21)	Dec-22
DAE4	SN: 601	02-May-22 (No. DAE4-601_May22)	May-23
		- · · · · · · · · · · · · · · · · · · ·	-
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-20)	In house check: Oct-22
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22
	Name	Function	Signature
Calibrated by:	Aldonia Georgiadou	Laboratory Technician	AIZ
Approved by:	Sven Kühn	Technical Manager	Ser
This calibration certificate shall not	be reproduced except in	full without written approval of the laboratory.	Issued: May 12, 2022

Calibration Laboratory of

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





Schweizerischer Kalibrierdienst

S Service suisse d'étalonnage С

Servizio svizzero di taratura

S 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

Glossarv:

tissue simulating liquid
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.
- 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 8 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. 0
- 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%.

Accreditation No.: SCS 0108

Measurement Conditions

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.6 ± 6 %	2.02 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm 3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.2 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	55.8 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.30 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.9 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.5	2.16 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.1 ± 6 %	2.20 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.6 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	53.7 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.04 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.0 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	47.5 Ω - 8.9 jΩ
Return Loss	- 20.5 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	44.2 Ω - 7.2 jΩ	
Return Loss	- 20.2 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.150 ns
----------------------------------	----------

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

- 1		
	Manufactured by	SPEAG

DASY5 Validation Report for Head TSL

Date: 11.05.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1042

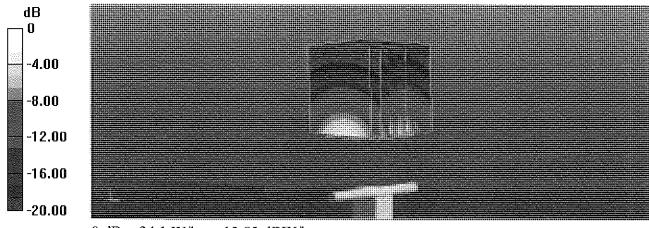
Communication System: UID 0 - CW; Frequency: 2600 MHz Medium parameters used: f = 2600 MHz; $\sigma = 2.02$ S/m; $\epsilon_r = 37.6$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.84, 7.84, 7.84) @ 2600 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.05.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 117.1 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 28.9 W/kg **SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.3 W/kg** Smallest distance from peaks to all points 3 dB below = 9 mm Ratio of SAR at M2 to SAR at M1 = 49.3% Maximum value of SAR (measured) = 24.1 W/kg



0 dB = 24.1 W/kg = 13.83 dBW/kg

Impedance Measurement Plot for Head TSL

File	<u>⊻</u> iew	⊆hannel	Sweep	Calibration	<u>Trace</u> 5	cale	M <u>a</u> rker	S <u>y</u> stem	<u>W</u> indow (<u>t</u> elp				
		Ch 1 Avg =	20		K				A	.600000 (6.911) .600000 (3 pF	-8. 94.0	7.483 Ω 8584 Ω 362 mU 00.67 °	
	Ch1: Sta	at 2.40000						.j				Stop 2	.80000 GHa	2
10.(5.0 -5.0 -10. -10. -15. -20.	0 - 0 - 10 - 00 - 00 -							>	1: 2			-20.	532 dB	Sector Sect
-30. -35.	.00 .09 .00	<u>Ch 1 Avg =</u> nt 2.48000 (20 3Hz									Stop 2	.80000 GHz	
Sta	itus	CH 1: §	311		C* 1-Port		and the second	Avg=20	Delay				LCL	<u>البريمينييني</u>

DASY5 Validation Report for Body TSL

Date: 11.05.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1042

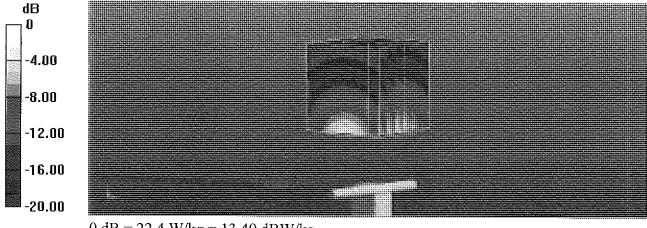
Communication System: UID 0 - CW; Frequency: 2600 MHz Medium parameters used: f = 2600 MHz; $\sigma = 2.2$ S/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.91, 7.91, 7.91) @ 2600 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.05.2022
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 107.5 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 27.0 W/kg SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.04 W/kg Smallest distance from peaks to all points 3 dB below = 8.5 mm Ratio of SAR at M2 to SAR at M1 = 50.9% Maximum value of SAR (measured) = 22.4 W/kg



0 dB = 22.4 W/kg = 13.49 dBW/kg

Impedance Measurement Plot for Body TSL

<u>File Yiew</u>	<u>⊂</u> hannel	Sw <u>e</u> ep C	ajibration]	[race <u>S</u> cale	e M <u>a</u> rker	System <u>W</u>	indow <u>H</u> e	elp		
					XXX			600000 G 8.4441 600000 G	рF	44.240 Ω -7.2493 Ω 7.962 mU -124.07 °
Ch1:S	Ch 1 Avg ≈ tart 2.40000 0				~~~ <u>~</u>		-		Sto	op 2,80000 GHz
10.00 5.00 0.00	dB \$11					>	2.6	00000 G	Hz -	20.179 dB
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-25.00 -30.00										
35.00 40.00 Ch1: \$	Ch 1 Avg = tart 2.40000 C						~		Ste	p 2.80000 GHz
Status	CH 1: [5	11	C	* 1-Port		Avg=20 Del	ay			LCL



Element Materials Technology Morgan Hill 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.410.290.6652 / Fax +1.410.290.6654 http://www.element.com



Certification of Calibration

Object

D2600V2 - SN: 1042

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

May 11, 2023

Extended Calibration date:

Description: SAR Validation Dipole at 2600 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/14/2022	Annual	6/14/2023	US39170118
Agilent	E4438C	ESG Vector Signal Generator	11/17/2022	Annual	11/17/2023	MY45093852
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Rohde & Schwarz	NRX	Power Meter	1/11/2023	Annual	1/11/2024	102583
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	5/19/2022	Annual	5/19/2023	106562
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	5/19/2022	Annual	5/19/2023	106559
Traceable	4040 90080-06	Therm./ Clock/ Humidity Monitor	5/11/2022	Biennial	5/11/2024	221514974
Control Company	4353	Long Stem Thermometer	9/10/2021	Biennial	9/10/2023	210774685
Agilent	85033E	3.5mm Standard Calibration Kit	6/21/2022	Annual	6/21/2023	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	8/15/2022	Annual	8/15/2023	1041
SPEAG	EX3DV4	SAR Probe	2/13/2023	Annual	2/13/2024	7427
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/15/2023	Annual	2/15/2024	1403

Measurement Uncertainty = $\pm 23\%$ (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer I	AC
Approved By:	Greg Snyder	Executive VP of Operations	Sugged Sol

Object:	Date Issued:	Dage 1 of 4
D2600V2 – SN: 1042	05/11/2023	Page 1 of 4

DIPOLE CALIBRATION EXTENSION

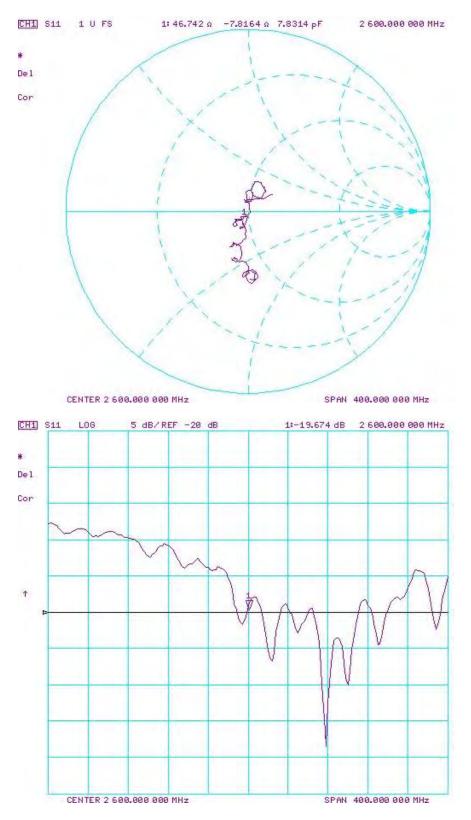
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

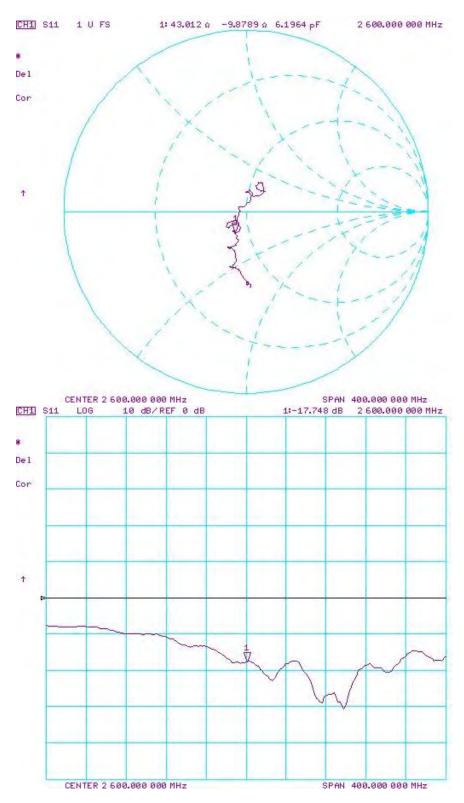
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	Measured Head SAR (1g) W/kg @ 20.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Measured Head SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
5/11/2022	5/11/2023	1.15	5.58	5.63	0.90%	2.49	2.52	1.20%	47.5	46.7	0.8	-8.9	-7.8	1.1	-20.5	-19.7	4.00%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 20.0 dBm	Measured Body SAR (1g) W/kg @ 20.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	Measured Body SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
5/11/2022	5/11/2023	1.15	5.37	5.53	2.98%	2.4	2.54	5.83%	44.2	43	1.2	-7.2	-9.9	2.7	-20.2	-17.7	12.10%	PASS

Object:	Date Issued:	Page 2 of 4	
D2600V2 – SN: 1042	05/11/2023	raye z 014	



Impedance & Return-Loss Measurement Plot for Head TSL

Object:	Date Issued:	Page 3 of 4
D2600V2 – SN: 1042	05/11/2023	Page 5 01 4



Impedance & Return-Loss Measurement Plot for Body TSL

Object:	Date Issued:	Daga 4 of 4
D2600V2 – SN: 1042	05/11/2023	Page 4 of 4



ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST) 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.408.538.5600 http://www.element.com



Certification of Calibration

Object

D2600V2 – SN: 1042

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: May 11, 2024

Description: SAR Validation Dipole at 2600 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/2/2023	Annual	6/12/2024	MY40003841
Agilent	E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2496A	Power Meter	6/15/2023	Annual	6/15/2024	1138001
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	2018527
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	1827528
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Control Company	4353	Ultra Long Stem Thermometer	10/24/2023	Annual	10/24/2024	200645916
Agilent	85033E	3.5mm Standard Calibration Kit	7/18/2023	Annual	7/18/2024	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	9/11/2023	Annual	9/11/2024	1045
SPEAG	EX3DV4	SAR Probe	3/11/2024	Annual	3/11/2025	7638
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/6/2024	Annual	3/6/2025	1408

Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer	AS
Approved By:	Greg Snyder	Executive VP of Operations	Sugged Syl

Object:	Date Issued:	Page 1 of 3
D2600V2 – SN: 1042	05/11/2024	Page 1 of 3

DIPOLE CALIBRATION EXTENSION

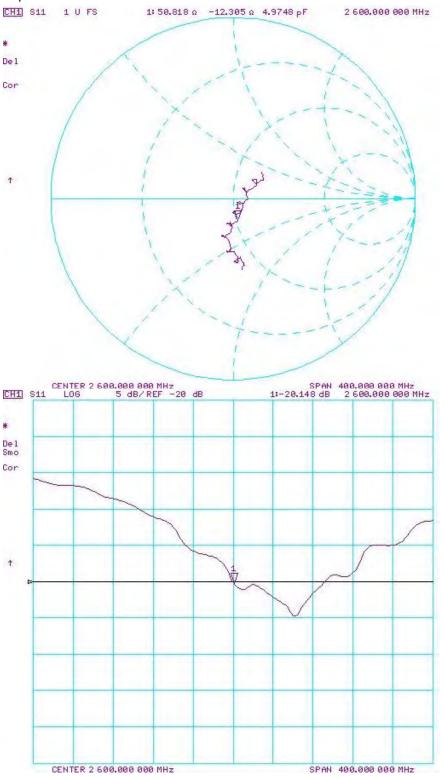
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

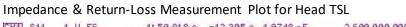
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from the calibration date:

Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	Measured Head SAR (1g) W/kg @ 20.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Measured Head SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)
5/11/2022	5/11/2024	1.15	5.58	5.61	0.54%	2.49	2.55	2.41%	47.5	50.8	3.3	-8.9	-12.3	3.4	-20.5	-20.1	1.70%

Object:	Date Issued:	Page 2 of 3
D2600V2 - SN: 1042	05/11/2024	Page 2 of 3





Object:	Date Issued:	Daga 2 of 2
D2600V2 – SN: 1042	05/11/2024	Page 3 of 3

Calibration Laboratory of Schmid & Partner

Morgan Hill, USA

Client Element

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland

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



1C=M

Schweizerischer Kalibrierdienst S

- Service suisse d'étalonnage С
- Servizio svizzero di taratura S
- Swiss Calibration Service

Certificate No. D3500V2-1126_Jun24

Accreditation No.: SCS 0108

CALIBRATION C			in an
Object	D3500V2 - SN:1	26 ##########	6/25/
Calibration procedure(s)	QA CAL-22.v7 Calibration Proce	edure for SAR Validation Source	s between 3-10 GHz
Calibration date:	June 10, 2024		
The measurements and the uncert	ainties with confidence pa	onal standards, which realize the physical ur robability are given on the following pages a y facility: environment temperature (22 \pm 3)°	nd are part of the certificate.
Calibration Equipment used (M&TE	E critical for calibration)		
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
ower sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
ower sensor NRP-Z91	SN: 103245	26-Mar-24 (No. 217-04037)	Mar-25
Reference 20 dB Attenuator	SN: BH9394 (20k)	26-Mar-24 (No. 217-04046)	Mar-25
ype-N mismatch combination	SN: 310982 / 06327	26-Mar-24 (No. 217-04047)	Mar-25
Reference Probe EX3DV4 DAE4	SN: 3503 SN: 601	07-Mar-24 (No. EX3-3503_Mar24) 22-May-24 (No. DAE4-601_May24)	Mar-25 May-25
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
ower meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
ower sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
ower sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
letwork Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
	Name	Function	Signature
Calibrated by:	Leif Klysnər	Laboratory Technician	Seif My
Approved by:	Sven Kühn	Technical Manager	A. A. Jertel
			Issued: June 10, 2024

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

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,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-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 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%.

Measurement Conditions

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
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	3500 MHz ± 1 MHz	

Head TSL parameters The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	37.9	2.91 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.6 ± 6 %	2.94 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.61 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	66.2 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
C (),	1	
SAR measured	100 mW input power	2.49 W/kg

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.1 Ω - 1.6 jΩ
Return Loss	- 31.8 dB

General Antenna Parameters and Design

Electrical Delay (and direction)	1.000
Electrical Delay (one direction)	1.133 ns

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

DASY5 Validation Report for Head TSL

Date: 10.06.2024

Test Laboratory: SPEAG, Zurich, Switzerland

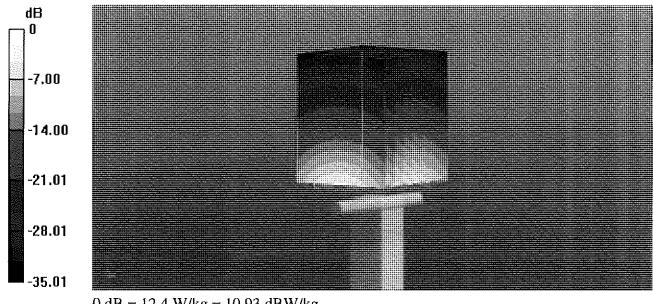
DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1126

Communication System: UID 0 - CW; Frequency: 3500 MHz Medium parameters used: f = 3500 MHz; $\sigma = 2.94 \text{ S/m}$; $\varepsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(7.63, 7.63, 7.63) @ 3500 MHz; Calibrated: 07.03.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection) •
- Electronics: DAE4 Sn601; Calibrated: 22.05.2024 •
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001 .
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=3500MHz/Zoom Scan, dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 68.84 V/m; Power Drift = 0.02 dBPeak SAR (extrapolated) = 18.0 W/kgSAR(1 g) = 6.61 W/kg; SAR(10 g) = 2.49 W/kgSmallest distance from peaks to all points 3 dB below = 8 mmRatio of SAR at M2 to SAR at M1 = 74.3%Maximum value of SAR (measured) = 12.4 W/kg



0 dB = 12.4 W/kg = 10.93 dBW/kg

Impedance Measurement Plot for Head TSL

<u>File Vi</u>	ew <u>C</u> hannel	Sw <u>e</u> ep	Calibration	<u>Trace Sc</u>	ale M <u>a</u> rker	System	Window	<u>H</u> elp			
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								<u>in an an</u>		ain photoinine.	
10.00 5.00	dB \$11						1: 3.	.900000 C	Hz	-31.	823 dB
5.00 0.00	4B \$11		·			> 1	1 3.	<u>500000 C</u>	<u>3Hz</u>	-2.	823 dB
5.00	4B S11					> 1	1: 3.		3Hz	-21.	823 dB
5.00 0.00 -5.00 -10.00 -15.00			· ·			> 1	[<u>3</u> .		3H2	-3.	823 dB
5.00 0.00 -5.00 -10.00 -15.00 -20.00	P					> 1	3.		Hz	-3.	823 dB
5.00 0.00 -5.00 -10.00 -15.00	P						3.		Hz	-3.	823 dB
5.00 0.00 -5.00 -10.00 -15.00 -20.00 -25.00 -30.60 -35.00	P	20				> 1	3.		Hz	-3.	823 dB
5.00 0.00 -5.00 -10.00 -15.00 -20.00 -25.00 -30.00 -35.00 -40.00	Ch 1 Avg = Start 3,30000 G	20 Hz					3.		Hz		823 dB

Calibration Laboratory of Schmid & Partner **Engineering AG**

Zeughausstrasse 43, 8004 Zurich, Switzerland



Schweizerischer Kalibrierdienst

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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

Client Element Morgan Hill, USA

Certificate No. D3700V2-1097_Jun24

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CALIBRATION C	ERTIFICAT		
Object	D3700V2 - SN:1	097	J m 6/25/24
Calibration procedure(s)	QA CAL-22.v7 Calibration Proce	edure for SAR Validation Sour	rces between 3-10 GHz
Calibration date:	June 10, 2024		
The measurements and the uncerta	ainties with c onfidence p	ional standards, which realize the physica robability are given on the following page ry facility: environment temperature (22 ±	es and are part of the certificate.
Calibration Equipment used (M&TE		y lacility, environment temperature (22 ±	. 3)°C and humidity < 70%.
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
Power sensor NRP-Z91	SN: 103245	26-Mar-24 (No. 217-04037)	Mar-25
Reference 20 dB Attenuator	SN: BH9394 (20k)	26-Mar-24 (No. 217-04046)	Mar-25
Type-N mismatch combination	SN: 310982 / 06327	26-Mar-24 (No. 217-04047)	Mar-25
Reference Probe EX3DV4	SN: 3503	07-Mar-24 (No. EX3-3503_Mar24)	Mar-25
DAE4	SN: 601	22-May-24 (No. DAE4-601_May24)	May-25
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-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:	Leif Klysner	Laboratory Technician	PT LAL
Approved by:	Svən Kühn	Technical Manager	A. A. Mark
This calibration certificate shall not '	be reproduced except in	full without written approval of the labora	Issued: June 10, 2024

Calibration Laboratory of

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





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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:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,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-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 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%.

Measurement Conditions

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

DASY Version	DASY52	V52.10.4		
Extrapolation	Advanced Extrapolation			
Phantom	Modular Flat Phantom			
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	3700 MHz ± 1 MHz			

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	37.7	3.12 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.4 ± 6 %	3.10 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.75 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	67.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.46 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.7 W/kg ± 19.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	45.8 Ω + 0.6 jΩ
Return Loss	- 27.0 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.130 ns

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

DASY5 Validation Report for Head TSL

Date: 10.06.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN:1097

Communication System: UID 0 - CW; Frequency: 3700 MHz Medium parameters used: f = 3700 MHz; $\sigma = 3.1$ S/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

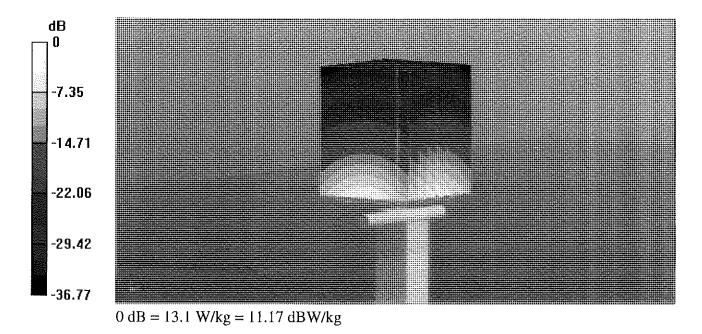
- Probe: EX3DV4 SN3503; ConvF(7.35, 7.35, 7.35) @ 3700 MHz; Calibrated: 07.03.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 22.05.2024
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=3700MHz/Zoom Scan,

dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 69.14 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 19.2 W/kg SAR(1 g) = 6.75 W/kg; SAR(10 g) = 2.46 W/kg Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 73.5%

Maximum value of SAR (measured) = 13.1 W/kg



Impedance Measurement Plot for Head TSL

	View	<u>C</u> hannel	Sw <u>e</u> ep	Calibration	<u>Trace</u> Scale	Marker	System	<u>W</u> indow	Help			
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-5.0) -10, -15, -20, -25, -30, -35, -40,	0 - 00 - 00 - 00 - 00 - 00 - 00 - 00 -	Ch 1 Avg = t 3.50000 G	20 H2 common									3.30000 GHz

Calibration Laboratory of Schmid & Partner Engineering AG



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 - Swiss Calibration Service

Accreditation No.: SCS 0108

Zeughausstrasse 43, 8004 Zurich, Switzerland 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 Element

Columbia, USA

Certificate No.	D3900V2-1056_Oct23

CALIBRATION CERTIFICATE

Object	D3900V2 - SN:1056
	VW 11/19/2024
Calibration procedure(s)	QA CAL-22.v7 Calibration Procedure for SAR Validation Sources between 3-10 GHz
	<20
Calibration date:	October 19, 2023 [2-07-2023

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)

Approved by:	Sven Kühn	Technical Manager	\leq /
A	0	TT - 24 - 1 - 1 4 4 4	
Calibrated by:	Paulo Pina	Laboratory Technician	tento
	Name	Function	Signature
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
DAE4	SN: 601	03-Oct-23 (No. DAE4-601_Oct23)	Oct-24
Reference Probe EX3DV4	SN: 3503	07-Mar-23 (No, EX3-3503_Mar23)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24

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

Calibration Laboratory of

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





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Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,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-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	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	3900 MHz ± 1 MHz 4100 MHz ± 1 MHz	

Head TSL parameters at 3900 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	37.5	3.32 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.9 ± 6 %	3.26 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 3900 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.78 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	68.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	· · · · · · · · · · · · · · · · · · ·
SAR measured	100 mW input power	2.37 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.8 W/kg ± 19.5 % (k=2)

Head TSL parameters at 4100 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	37.2	3.53 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.7 ± 6 %	3.44 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 4100 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.63 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	66.7 W/kg ± 19.9 % (k=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	23.1 W/kg ± 19.5 % (k=2)

Body TSL parameters at 3900 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	50.8	3.78 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.4 ± 6 %	3.71 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 3900 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition		
SAR measured	100 mW input power	6.49 W/kg	
SAR for nominal Body TSL parameters	normalized to 1W	65.3 W/kg ± 19.9 % (k=2)	
	····		
SAR averaged over 10 cm ³ (10 g) of Body TSL	condition		
SAR averaged over 10 cm ³ (10 g) of Body ISL SAR measured	condition 100 mW input power	2.25 W/kg	

Body TSL parameters at 4100 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	50.5	4.01 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.2 ± 6 %	3.95 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 4100 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	6.26 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	62.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.15 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.6 W/kg ± 19.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 3900 MHz

Impedance, transformed to feed point	47.8 Ω - 6.8 jΩ
Return Loss	- 22.8 dB

Antenna Parameters with Head TSL at 4100 MHz

Impedance, transformed to feed point	59.5 Ω - 1.2 jΩ
Return Loss	- 21.2 dB

Antenna Parameters with Body TSL at 3900 MHz

Impedance, transformed to feed point	46.8 Ω - 4.1 jΩ
Return Loss	- 25.4 dB

Antenna Parameters with Body TSL at 4100 MHz

Impedance, transformed to feed point	59.2 Ω + 1.7 jΩ
Return Loss	- 21.3 dB

General Antenna Parameters and Design

lectrical Delay (one direction)	1.102 ns
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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

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DASY5 Validation Report for Head TSL

Date: 16.10.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 3900 MHz; Type: D3900V2; Serial: D3900V2 - SN:1056

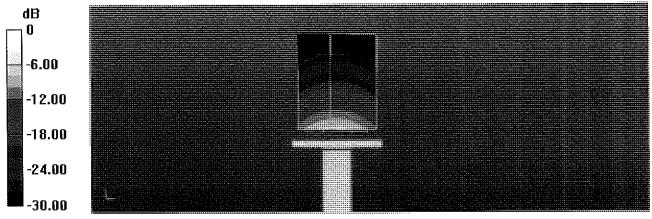
Communication System: UID 0 - CW; Frequency: 3900 MHz, Frequency: 4100 MHz Medium parameters used: f = 3900 MHz; σ = 3.26 S/m; ϵ_r = 37.9; ρ = 1000 kg/m³ Medium parameters used: f = 4100 MHz; σ = 3.44 S/m; ϵ_r = 37.7; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(7.39, 7.39, 7.39) @ 3900 MHz, ConvF(7.26, 7.26, 7.26) @ 4100 MHz; Calibrated: 07.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 03.10.2023
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

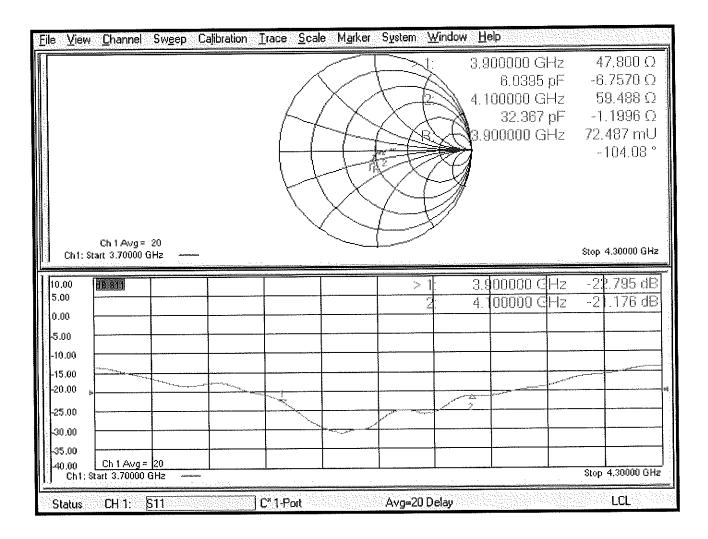
Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=3900MHz/Zoom Scan, dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 69.51 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 19.1 W/kg SAR(1 g) = 6.78 W/kg; SAR(10 g) = 2.37 W/kg Smallest distance from peaks to all points 3 dB below = 8 mm Ratio of SAR at M2 to SAR at M1 = 74.1% Maximum value of SAR (measured) = 13.2 W/kg

Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=4100MHz/Zoom Scan, dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 67.87 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 18.8 W/kg SAR(1 g) = 6.63 W/kg; SAR(10 g) = 2.3 W/kg Smallest distance from peaks to all points 3 dB below = 8 mm Ratio of SAR at M2 to SAR at M1 = 74% Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 13.2 W/kg = 11.21 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 19.10.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 3900 MHz; Type: D3900V2; Serial: D3900V2 - SN:1056

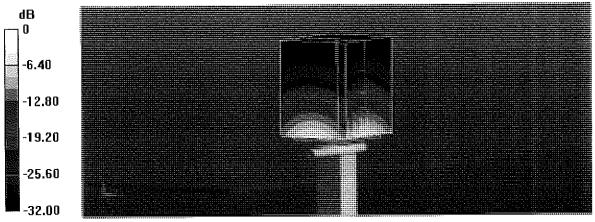
Communication System: UID 0 - CW; Frequency: 3900 MHz, Frequency: 4100 MHz Medium parameters used: f = 3900 MHz; σ = 3.71 S/m; ϵ_r = 51.4; ρ = 1000 kg/m³ Medium parameters used: f = 4100 MHz; σ = 3.95 S/m; ϵ_r = 51.2; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(7.18, 7.18, 7.18) @ 3900 MHz, ConvF(6.88, 6.88, 6.88) @ 4100 MHz; Calibrated: 07.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 03.10.2023
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

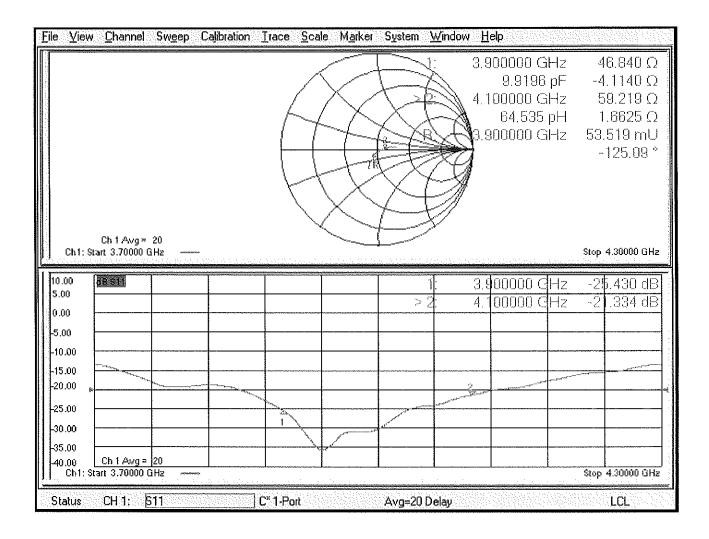
Dipole Calibration for Body Tissue/Pin=100 mW, d=10mm, f=3900MHz/Zoom Scan , dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 62.88 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 18.7 W/kg SAR(1 g) = 6.49 W/kg; SAR(10 g) = 2.25 W/kg Smallest distance from peaks to all points 3 dB below = 7.6 mm Ratio of SAR at M2 to SAR at M1 = 73.6%Maximum value of SAR (measured) = 12.8 W/kg

Dipole Calibration for Body Tissue/Pin=100 mW, d=10mm, f=4100MHz/Zoom Scan , dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 61.50 V/m; Power Drift = -0.09 dB Peak SAR (extrapolated) = 18.9 W/kg SAR(1 g) = 6.26 W/kg; SAR(10 g) = 2.15 W/kg Smallest distance from peaks to all points 3 dB below = 7.9 mm Ratio of SAR at M2 to SAR at M1 = 72.1% Maximum value of SAR (measured) = 12.5 W/kg



0 dB = 12.8 W/kg = 11.06 dBW/kg

Impedance Measurement Plot for Body TSL





ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST) 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.408.538.5600 http://www.element.com



Certification of Calibration

Object	D3900V2 – SN: 1056
Calibration procedure(s)	Procedure for Calibration Extension for SAR Dipoles.
Extension Calibration date:	October 19, 2024
Description:	SAR Validation Dipole at 3900, 4100 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Hewlett Packard	8753E	RF Vector Network Analyzer	5/21/2024	Annual	5/21/2025	US38161081
Agilent	E4438C	ESG Vector Signal Generator	5/19/2024	Annual	5/19/2025	US41460739
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2496A	Power Meter	7/15/2024	Annual	7/15/2025	1138001
Anritsu	MA2411B	Pulse Power Sensor	7/10/2024	Annual	7/10/2025	1126066
Anritsu	MA2411B	Pulse Power Sensor	7/1/2024	Annual	7/1/2025	1911105
Traceable	4040 90080-06	Therm./ Clock/ Humidity Monitor	1/15/2024	Annual	1/15/2025	160574418
Control Company	4352	Ultra Long Stem Thermometer	1/15/2024	Annual	1/15/2025	160508097
Agilent	85033E	3.5mm Standard Calibration Kit	7/31/2024	Annual	7/31/2025	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/14/2024	Annual	5/14/2025	1070
SPEAG	EX3DV4	SAR Probe	9/4/2024	Annual	9/4/2025	7668
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/8/2024	Annual	8/8/2025	1681

Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer	AC
Approved By:	Greg Snyder	Executive VP of Operations	Lugo March

Object:	Date Issued:	Page 1 of 4
D3900V2 – SN: 1056	10/19/2024	Page 1 of 4

DIPOLE CALIBRATION EXTENSION

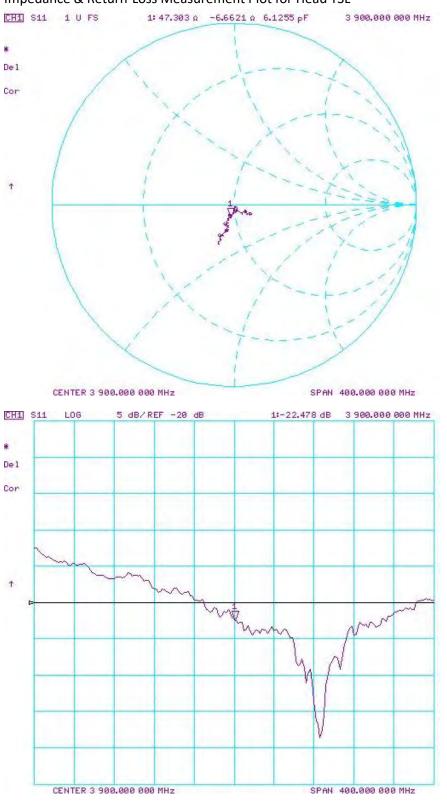
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

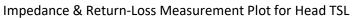
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

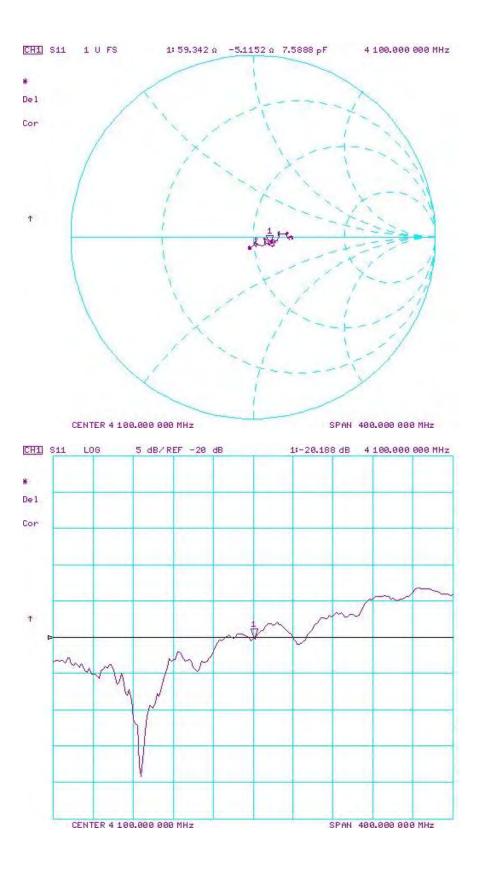
Frequency (MHz)	Calibration Date	Extension Date	Libbaildai	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	Measured Head SAR (1g) W/kg @ 20.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Measured Head SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)
3900	10/19/2023	10/19/2024	1.102	6.82	7.00	2.64%	2.38	2.45	2.94%	47.8	47.3	0.5	-6.8	-6.7	0.1	-22.8	-22.5	1.40%
4100	10/19/2023	10/19/2024	1.102	6.67	6.81	2.10%	2.31	2.36	2.16%	59.5	59.3	0.2	-1.2	-5.1	3.9	-21.2	-20.2	4.80%

Object:	Date Issued:	Page 2 of 4		
D3900V2 – SN: 1056	10/19/2024	Fage 2 014		





Object:	Date Issued:	Daga 2 of 4
D3900V2 – SN: 1056	10/19/2024	Page 3 of 4



Object:	Date Issued:	Page 4 of 4
D3900V2 – SN: 1056	10/19/2024	r age 4 01 4

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





Schweizerischer Kalibrierdienst

- Service suisse d'étalonnage С
- Servizio svizzero di taratura
- S Swiss Calibration Service

Certificate No. D5GHzV2-1163_Jun24

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 Element Morgan Hill, USA

CALIBRATION CERTIFICATE			
Object	D5GHzV2 - SN:"	1163	V YW 6/25/7
Calibration procedure(s)	QA CAL-22.v7 Calibration Proce	edure for SAR Validation Sourc	es between 3-10 GHz
Calibration date:	June 12, 2024		
		onal standards, which realize the physical uncertain the physical of the physical of the standards of the st	
All calibrations have been conduct	ed in the closed laborator	ry facility: environment temperature (22 ± 3)°C and humidity < 70%.
Calibration Equipment used (M&TE		, , , , , , , , , , , , , , , , , , ,	,, , , , , , , , , , , , , , , ,
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
Power sensor NRP-Z91	SN: 103245	26-Mar-24 (No. 217-04037)	Mar-25
Reference 20 dB Attenuator	SN: BH9394 (20k)	26-Mar-24 (No. 217-04046)	Mar-25
Type-N mismatch combination	SN: 310982 / 06327	26-Mar-24 (No. 217-04047)	Mar-25
Reference Probe EX3DV4	SN: 3503	07-Mar-24 (No. EX3-3503_Mar24)	Mar-25
DAE4	SN: 601	22-May-24 (No. DAE4-601_May24)	May-25
Secondary Standards	D#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-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:	Paulo Pina	Laboratory Technician	
			Fatter
Approved by:	Sven Kühn	Technical Manager	Alestit

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

Issued: June 13, 2024

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



Schweizerischer Kalibrierdienst

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Servizio svizzero di taratura S

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

Accreditation No.: SCS 0108

Glossary:	
TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,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-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 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. 8
- 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	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz 5850 MHz ± 1 MHz	

Head TSL parameters at 5250 MHz 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	36.3 ± 6 %	4.60 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	•••••	

SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.95 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.26 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.6 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5600 MHz

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	35.6 ± 6 %	4.97 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	82.8 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.34 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.4 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5750 MHz 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	35.4 ± 6 %	5.14 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.12 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.1 W/kg ± 19.9 % (k=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	23.0 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5850 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.2	5.32 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.3 ± 6 %	5.24 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5850 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.90 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.0 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.2 W/kg ± 19.5 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	45.9 Ω - 5.0 jΩ		
Return Loss	- 23.4 dB		

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point		48.8 Ω + 2.7 jΩ		
Return	Loss	- 30.6 dB		

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	56.4 Ω - 1.5 jΩ		
Return Loss	- 24.2 dB		

Antenna Parameters with Head TSL at 5850 MHz

Impedance, transformed to feed point	59.5 Ω + 1.4 jΩ		
Return Loss	- 21.1 dB		

General Antenna Parameters and Design

Electrical Delay (one direction)	1.165 ns

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

DASY5 Validation Report for Head TSL

Date: 12.06.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1163

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz, Frequency: 5850 MHz Medium parameters used: f = 5250 MHz; $\sigma = 4.6$ S/m; $\varepsilon_r = 36.3$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5600 MHz; $\sigma = 4.97$ S/m; $\varepsilon_r = 35.6$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5750 MHz; $\sigma = 5.14$ S/m; $\varepsilon_r = 35.4$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5850 MHz; $\sigma = 5.24$ S/m; $\varepsilon_r = 35.3$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5850 MHz; $\sigma = 5.24$ S/m; $\varepsilon_r = 35.3$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5850 MHz; $\sigma = 5.24$ S/m; $\varepsilon_r = 35.3$; $\rho = 1000$ kg/m³

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.39, 5.39, 5.39) @ 5250 MHz, ConvF(5, 5, 5) @ 5600 MHz, ConvF(4.98, 4.98, 4.98) @ 5750 MHz, ConvF(4.89, 4.89, 4.89) @ 5850 MHz; Calibrated: 07.03.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 22.05.2024
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 75.03 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 27.6 W/kg SAR(1 g) = 7.95 W/kg; SAR(10 g) = 2.26 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 69.7% Maximum value of SAR (measured) = 17.9 W/kg

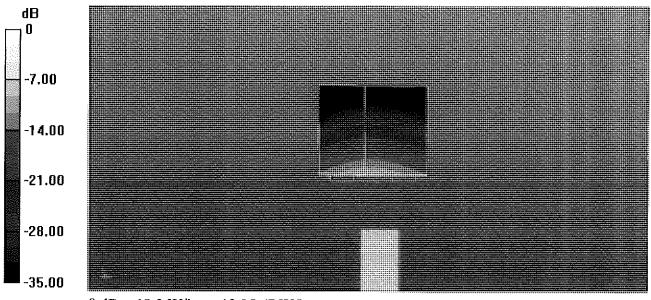
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 74.93 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 31.5 W/kg SAR(1 g) = 8.28 W/kg; SAR(10 g) = 2.34 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 66.9%

Maximum value of SAR (measured) = 19.3 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 72.50 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 32.1 W/kg SAR(1 g) = 8.12 W/kg; SAR(10 g) = 2.30 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 65.4%Maximum value of SAR (measured) = 19.2 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5850 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 71.84 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 32.3 W/kgSAR(1 g) = 7.90 W/kg; SAR(10 g) = 2.22 W/kgSmallest distance from peaks to all points 3 dB below = 7.2 mmRatio of SAR at M2 to SAR at M1 = 64.4%Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 19.3 W/kg = 12.85 dBW/kg

Impedance Measurement Plot for Head TSL

<u>File Vie</u>	w <u>C</u> hannel Sw <u>e</u> ep	Calibration <u>Trace S</u> ca	le M <u>a</u> rker System	<u>W</u> indow <u>H</u> elp		
<u>Eile Vie</u>	w <u>Channel Sweep</u>	Calibration <u>Trace</u> <u>S</u> ca	le Marker System	<u>Window Help</u> 1: 2: 3: ≥4: R:	5.250000 GHz 6.0353 pF 5.600000 GHz 75.944 pH 5.750000 GHz 18.340 pF 5.850000 GHz 38.145 pH 5.500000 GHz	45.923 0 \$.0226 0 48.798 0 2.6722 0 56.366 0 -1.5092 0 59.507 0 1.4022 0 34.820 mU 105.71 *
10.00 5.00 0.00 -5.00	Ch 1 Avg = 20 Start 5,00000 GHz				\$tep 5.250000 GHz 5.700000 GHz 5.250000 GHz 5.350000 GHz	6.00000 GHz -23.434 dB -20.560 dB -24.222 dB -21.136 dB
-10.00 -15.00 -20.00 -25.00 -30.00 -35.00 -40.00 Ch1: 5	Ch 1 Avg = 20 Start 5.00000 GHz	1				6.00000 GHz

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Servizio svizzero di taratura Suiss Calibration Service

Certificate No. D5GHzV2-1123_Mar24

Accreditation No.: SCS 0108

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Client Element

Morgan Hill, USA

CALIBRATION CERTIFICATE 4/2/2024 ATM D5GHzV2 - SN:1123 Object QA CAL-22.v7 Calibration procedure(s) Calibration Procedure for SAR Validation Sources between 3-10 GHz March 12, 2024 Calibration date: 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 # Cal Date (Certificate No.) Scheduled Calibration Primary Standards Mar-24 SN: 104778 30-Mar-23 (No. 217-03804/03805) Power meter NRP2 Mar-24 SN: 103244 30-Mar-23 (No. 217-03804) Power sensor NRP-Z91 Mar-24 Power sensor NRP-Z91 SN: 103245 30-Mar-23 (No. 217-03805) Mar-24 SN: BH9394 (20k) 30-Mar-23 (No. 217-03809) Reference 20 dB Attenuator Mar-24 Type-N mismatch combination SN: 310982 / 06327 30-Mar-23 (No. 217-03810) SN: 3503 07-Mar-24 (No. EX3-3503_Mar24) Mar-25 Reference Probe EX3DV4 Jan-25 SN: 601 30-Jan-24 (No. DAE4-601_Jan24) DAE4 Scheduled Check Secondary Standards ID # Check Date (in house) In house check: Oct-24 Power meter E4419B SN: GB39512475 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) In house check: Oct-24 Power sensor HP 8481A SN: US37292783 In house check: Oct-24 07-Oct-15 (in house check Oct-22) Power sensor HP 8481A SN: MY41093315 SN: 100972 15-Jun-15 (in house check Oct-22) In house check: Oct-24 **RF** generator R&S SMT-06 In house check: Oct-24 SN: US41080477 31-Mar-14 (in house check Oct-22) Network Analyzer Agilent E8358A Signature Function Name Laboratory Technician Calibrated by: Claudio Leubler Approved by: Sven Kühn **Technical Manager** Issued: March 13, 2024

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

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S Swiss Calibration Service

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Glossarv:

tissue simulating liquid
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.
- 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%.

Accreditation No.: SCS 0108

Measurement Conditions

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz 5850 MHz ± 1 MHz	

Head TSL parameters at 5250 MHz

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	36.4 ± 6 %	4.57 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		****

SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.93 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.4 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.27 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.8 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5600 MHz

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	35.8 ± 6 %	4.97 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		Let use but tas

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.24 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	82.5 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.36 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.6 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5750 MHz 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	35.6 ± 6 %	5.13 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.94 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.4 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR averaged over to cill (to g) official tor	Condition	
SAR measured	100 mW input power	2.26 W/kg

Head TSL parameters at 5850 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.2	5.32 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.5 ± 6 %	5.22 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5850 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.01 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.1 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.27 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.8 W/kg ± 19.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	50.9 Ω - 4.4 jΩ
Return Loss	- 27.0 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	56.1 Ω + 0.4 jΩ
Return Loss	- 24.8 dB

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	57.0 Ω + 2.2 jΩ
Return Loss	- 23.3 dB

Antenna Parameters with Head TSL at 5850 MHz

Impedance, transformed to feed point	57.2 Ω - 0.3 jΩ		
Return Loss	- 23.4 dB		

General Antenna Parameters and Design

Electrical Delay (one direction)	1.204 ns

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

anufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 12.03.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1123

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz, Frequency: 5850 MHz Medium parameters used: f = 5250 MHz; $\sigma = 4.57$ S/m; $\varepsilon_r = 36.4$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5600 MHz; $\sigma = 4.97$ S/m; $\varepsilon_r = 35.8$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5750 MHz; $\sigma = 5.13$ S/m; $\varepsilon_r = 35.6$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5850 MHz; $\sigma = 5.22$ S/m; $\varepsilon_r = 35.5$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.39, 5.39, 5.39) @ 5250 MHz, ConvF(5, 5, 5) @ 5600 MHz, ConvF(4.98, 4.98, 4.98) @ 5750 MHz, ConvF(4.89, 4.89, 4.89) @ 5850 MHz; Calibrated: 07.03.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.01.2024
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 74.43 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 26.7 W/kg SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.27 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 70.9% Maximum value of SAR (measured) = 18.2 W/kg

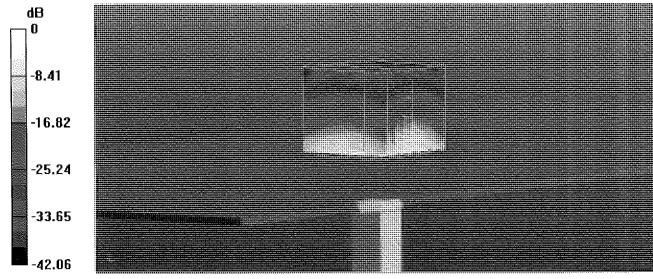
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 72.56 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 29.9 W/kg SAR(1 g) = 8.24 W/kg; SAR(10 g) = 2.36 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 68.5% Maximum value of SAR (measured) = 19.3 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 70.17 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 30.6 W/kg SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.26 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 66.5% Maximum value of SAR (measured) = 19.0 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5850 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 70.41 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 31.8 W/kg SAR(1 g) = 8.01 W/kg; SAR(10 g) = 2.27 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 65.4% Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.5 W/kg = 12.90 dBW/kg

Impedance Measurement Plot for Head TSL

<u>File Viev</u>	v <u>C</u> hannel	Sw <u>e</u> ep C	alibration	<u>T</u> race <u>S</u> cal	e M <u>a</u> rker	System	<u>W</u> indow <u>F</u>	<u>l</u> elp		
								1:	5.250000 GHz	50.876 Q
					- 	\Box	\sim	× 2:	6.8601 p F 5.600000 GHz	-4.4191 Q 56.121 Q
					\times \checkmark	√	her		11.546 pH	406.25 m.0
					$' \times$	$\times 1$		3:	5,750000 GHz 59,686 pH	57.012 Q 2.1564 Q
				- [] [~	tX	VA -	4:	5,850000 GHz	57.234 Q
								8:	97.272 pF 5,500000 GHz	-279.69 mΩ 18.640 mU
							7HA -			5.1040 *
				fJ	$\setminus X$	\times 7	-A			
					\times $^{\sim}$	4	7			
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	Ch 1 Avg =				· · · · · · · · · · · · · · · · · · ·					
[] Ch1:	Start 5.00000 C	iHz menene						na milin in mina	Stop	6.08000 GHz
10.00	8B 811							> 1:	5. 1 50000 GHz	-27.010 dB
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-5.00										
-10.00										
-15.00										
-20.00	**************************************	annun kanna anna kanna kan						_		,
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-40.00	Ch 1 Avg =	20	<u></u>		L		<u> </u>			0.0000.00
[] Ch1:	Start 5.00000 (3Hz ,unaccineumon							Stop	8.00000 GHz
Status	CH 1: §	311		C* 1-Port		Avg=20 [)elay			LCL

Calibration Laboratory of Schweizerischer Kalibrierdienst S Schmid & Partner Service suisse d'étalonnage С Engineering AG Servizio svizzero di taratura S Zeughausstrasse 43, 8004 Zurich, Switzerland 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 Element Certificate No. D6.5GHzV2-1019 Oct24 Client Morgan Hill, USA CALIBRATION CERTIFICATE W 10/22/24 Object D6.5GHzV2 - SN:1019 Calibration procedure(s) na nai .77...7 Labrahan Pincolung in 1944 yangatan Seunga nakaan 2-111 October 10, 2024 Calibration date: 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 SN: 100967 Power sensor R&S NRP33T 28-Mar-24 (No. 217-04038) Mar-25 Reference 20 dB Attenuator SN: BH9394 (20k) 26-Mar-24 (No. 217-04046) Mar-25 Mismatch combination SN: 84224 / 360D 28-Mar-24 (No. 217-04050) Mar-25 Reference Probe EX3DV4 SN: 7405 01-Jul-24 (No. EX3-7405_Jul24) Jul-25 DAE4 SN: 908 27-Mar-24 (No. DAE4-908 Mar24) Mar-25 Secondary Standards ID # Check Date (in house) Scheduled Check RF generator Anapico APSIN20G SN: 827 18-Dec-18 (in house check Jan-24) In house check: Jan-25 Power sensor NRP-Z23 SN: 100169 10-Jan-19 (in house check Jan-24) In house check: Jan-25 Power sensor NRP-18T SN: 100950 28-Sep-22 (in house check Jan-24) In house check: Jan-25 Network Analyzer Keysight E5063A SN:MY54504221 31-Oct-19 (in house check Sep-24) In house check: Sep-26

	Name	Function	Signature
Calibrated by:	Aidonia Georgiadou	Laboratory Technician	AT CONTRACT
			NE
Approved by:	Sven Kühn	Technical Manager	
		recimical manager	j.A. A. Kobal
			Issued: October 11, 2024
This calibration certificate sh	all not be reproduced except in full w	ithout written approval of the lab	pratory.

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Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,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-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. 0
- 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%.

Accreditation No.: SCS 0108

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	34.5 ± 6 %	6.18 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	30.0 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	300 W/kg ± 24.7 % (k=2)

SAR averaged over 8 cm ³ (8 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.72 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	67.2 W/kg ± 24.4 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	5.51 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	55.1 W/kg ± 24.4 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.6 Ω - 5.5 jΩ
Return Loss	- 25.1 dB

APD (Absorbed Power Density)

APD averaged over 1 cm ²	Condition	
APD measured	100 mW input power	299 W/m²
APD measured	normalized to 1W	2990 W/m² ± 29.2 % (k=2)

APD averaged over 4 cm ²	condition	
APD measured	100 mW input power	134 W/m²
APD measured	normalized to 1W	1340 W/m² ± 28.9 % (k=2)

*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.

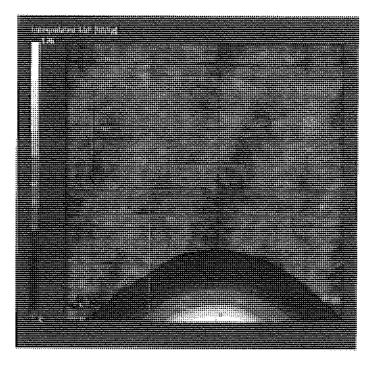
Additional EUT Data

Manufactured by	SPEAG

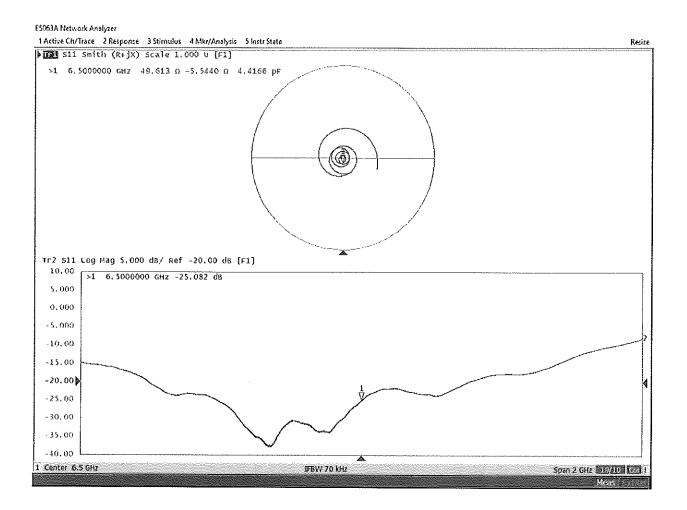
DASY6 Validation Report for Head TSL

Measurement Report for D6.5GHz-1019, UID 0 -, Channel 6500 (6500.0MHz)

Device under T	est Properties						
Name, Manufa	icturer Di	mensions	[mm] I	MEI	DUT Ty	pe	
D6.5GHz	1	6.0 x 6.0 x 3	300.0 S	N: 1019	-		
Exposure Cond	litions						
Phantom Section, TSL	Position, Test Distance	Band	Group, UID	Frequency [MHz]	Conversion Factor	TSL Cond. [S/m]	TSL Permittivity
	[mm]		· · · · · · · · · · · · · · · ·				
Flat, HSL	5.00	Band	CW,	6500	5.14	6,18	34.5
Hardware Setu	p						
Phantom		SL		Probe, Call	bration Date	DAE, Calib	oration Date
MFP V8.0 Cente	er-1182 H	BBL600-10	000∨6	EX3DV4 - 51	N7405, 2024-07-01	. DAE4 Sn90	08, 2024-03-27
Scan Setup				Measureme	ent Results		
			Zoom Sca	n			Zoom Scan
Grid Extents (I	mm]		22.0 x 22.0 x 22.0	D Date		2	024-10-10, 12:55
Grid Steps [mi	m]		3.4 x 3.4 x 1.4	4 psSAR1g [\	W/Kg]		30.0
5ensor Surface	e (mm)		1.4	4 psSAR8g [\	W/Kg]		6.72
Graded Grid			Ye	s psSAR10g	[W/Kg]		5.51
Grading Rati o			1.4				0.00
MAIA			N//	A Power Sca	ling		Disabled
Surface Detec	tion		VM5 + 6	Scaling Fac	tor [dB]		
S c an Method			Measured	d TSL Correc	tion		No correction
				M2/M1 [%	5]		49.4
				Dist 3dB P	-		4.4



Impedance Measurement Plot for Head TSL



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

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Swiss Calibration Service

Certificate No. D750V3-1097_Sep23

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 Element

Morgan Hill, USA			
CALIBRATION C	ERTIFICATE		
Object	D750V3 - SN:109	97	VATM advance
Calibration procedure(s)	QA CAL-05.v12 Calibration Proce	dure for SAR Validation Source	$\sqrt{4171}$ 9/28/2023 es between 0.7-3 GHz VW 10/11/2024
Calibration date:	September 13, 20	023	an a
1	-	onal standards, which realize the physical u robability are given on the following pages a	· ·
All calibrations have been conducte	d in the closed laborator	y facility: environment temperature (22 \pm 3)	°C and humidity < 70%.
Calibration Equipment used (M&TE	critical for calibration)		
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	10-Jan-23 (No. EX3-7349_Jan23)	Jan-24
DAE4	SN: 601	19-Dec-22 (No. DAE4-601_Dec22)	Dec-23
Sacandan (Standarda	ID #	Charly Data (in house)	Ontroductor d Ohne da
Secondary Standards Power meter E4419B	SN: GB39512475	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	SN: US37292783	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22)	In house check: Oct-24 In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
Howeney indigion Loodon			In house check. Oct-24
	Name	Function	Signature
Calibrated by:	Paulo Pina	Laboratory Technician	
Approved by:	Sven Kühn	Technical Manager	N
This calibration certificate shall not	be reproduced except in	full without written approval of the laborator	Issued: September 14, 2023 ry.

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





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- S Service suisse d'étalonnage С
 - 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

Glossarv:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,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-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 0 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	DASY52	V52.10.4	
Extrapolation	Advanced Extrapolation	· · · · · · · · · · · · · · · · · · ·	
Phantom	Modular Flat Phantom		
Distance Dipole Center - TSL	15 mm	with Spacer	
Zoom Scan Resolution	dx, dy , $dz = 5 mm$,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Frequency	750 MHz ± 1 MHz		

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.4 ± 6 %	0.90 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.08 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.27 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.38 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity	
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m	
Measured Body TSL parameters	(22.0 ± 0.2) °C	55.8 ± 6 %	0.96 mho/m ± 6 %	
Body TSL temperature change during test	< 0.5 °C			

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.16 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	8.67 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.43 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	5.71 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	55.2 Ω + 2.5 jΩ
Return Loss	- 25.2 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.9 Ω - 3.2 jΩ
Return Loss	- 29.2 dB

General Antenna Parameters and Design

Electrical Delay (one direction) 1.038 ns		
	Electrical Delay (one direction)	1.038 ns

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	

DASY5 Validation Report for Head TSL

Date: 13.09.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1097

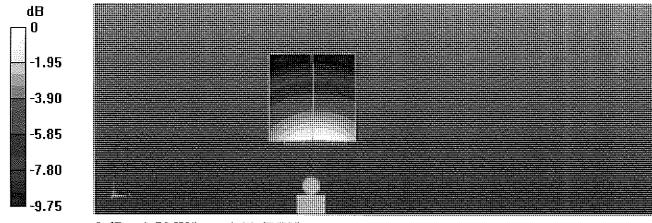
Communication System: UID 0 - CW; Frequency: 750 MHz Medium parameters used: f = 750 MHz; σ = 0.9 S/m; ϵ_r = 42.4; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.11, 10.11, 10.11) @ 750 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 59.61 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 3.17 W/kg **SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.35 W/kg** Smallest distance from peaks to all points 3 dB below = 16.8 mm Ratio of SAR at M2 to SAR at M1 = 65.4% Maximum value of SAR (measured) = 2.78 W/kg



0 dB = 2.78 W/kg = 4.44 dBW/kg

Impedance Measurement Plot for Head TSL

<u>F</u> ile <u>V</u> iew	v <u>C</u> hannel Sw <u>e</u> ep I	Calibration <u>Trace</u> <u>S</u> ca	e M <u>a</u> rker System <u>)</u>	<u>W</u> indow <u>H</u> elp	
				: 750.00000 MHz 520.09 pH 50.000000 MHz	55.231 Ω 2.4509 Ω 54.883 mU 23.769 °
Ch1: S	Ch I Avg = 20 Start 550.000 MHz		~ <u></u>		Stop 958.000 MHz
10.00 5.00 0.00 -5.00 -10.00 -15.00 -25.00 -25.00 -35.00 -40.00 Ch1: S	d8 s)1		> 1	750.00000 MHz	-25.211 dB
Status	CH 1: 511	C [×] 1-Port	Avg=20 D	elay	LCL

DASY5 Validation Report for Body TSL

Date: 05.09.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1097

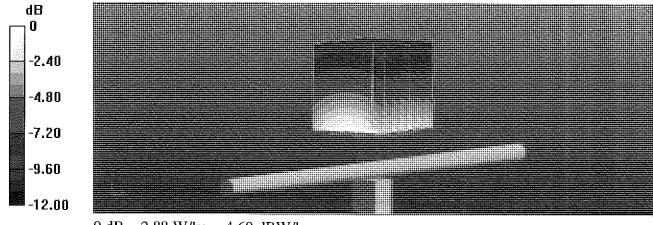
Communication System: UID 0 - CW; Frequency: 750 MHz Medium parameters used: f = 750 MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.8$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.23, 10.23, 10.23) @ 750 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 4.9 (Back); Type: QD 00R P49 AA; Serial: 1005
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 58.05 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 3.25 W/kg SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.43 W/kg Smallest distance from peaks to all points 3 dB below = 20.5 mm Ratio of SAR at M2 to SAR at M1 = 66.6% Maximum value of SAR (measured) = 2.88 W/kg



0 dB = 2.88 W/kg = 4.60 dBW/kg

Impedance Measurement Plot for Body TSL

<u>File V</u> ie	w <u>C</u> hannel Sw	eep Calibration <u>T</u>	race <u>S</u> cale M <u>a</u>	ker System <u>W</u>	ndow <u>H</u> elp	
	Ch 1 Avg ≃ 29				750.000000 MHz 65.404 pF 550.000000 MHz	48.854 Ω -3.2446 Ω 34.792 mU -107.58 °
Ch1;	Start 550.000 MHz	20000000000000000000000000000000000000			<u></u>	Stop 950.000 MHz
	B S14				750.00000 WHz	-29.170 dB
Status	CH 1: 511	C×	1-Port	Avg=20 Dela	y	LCL



ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST) 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.408.538.5600 http://www.element.com



Certification of Calibration

Object

D750V3 – SN: 1097

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: September 13, 2024

Description: SAR Validation Dipole at 750 MHz.

Calibration Equipment used:

Manufacturer	Model	Description		Cal Interval	Cal Due	Serial Number
Hewlett Packard	8753E	RF Vector Network Analyzer		Annual	5/21/2025	US38161081
Agilent	E4438C	ESG Vector Signal Generator	5/19/2024	Annual	5/19/2025	US41460739
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2496A	Power Meter	7/15/2024	Annual	7/15/2025	1138001
Anritsu	MA2411B	Pulse Power Sensor	7/10/2024	Annual	7/10/2025	1126066
Anritsu	MA2411B	Pulse Power Sensor	7/1/2024	Annual	7/1/2025	1911105
Traceable	4040 90080-06	Therm./ Clock/ Humidity Monitor	1/15/2024	Annual	1/15/2025	160574418
Control Company	4352	Ultra Long Stem Thermometer	1/15/2024	Annual	1/15/2025	160508097
Agilent	85033E	3.5mm Standard Calibration Kit	7/31/2024	Annual	7/31/2025	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/14/2024	Annual	5/14/2025	1070
SPEAG	EX3DV4	SAR Probe	2/9/2024	Annual	2/9/2025	7427
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/9/2024	Annual	2/9/2025	467

Measurement Uncertainty = $\pm 23\%$ (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer	AS
Approved By:	Greg Snyder	Executive VP of Operations	Lugg M. S.

DIPOLE CALIBRATION EXTENSION

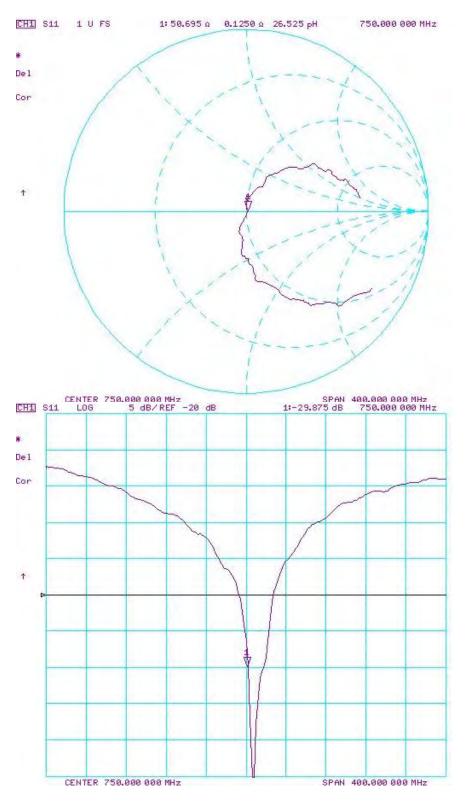
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

Calibratic Date	¹ Extension Date	Electrical	Certificate SAR Target Head (1g) W/kg @ 23.0 dBm	W/kg @ 23.0	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 23.0 dBm		Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real			Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)
9/13/202	3 9/13/2024	1.038	1.65	1.72	3.99%	1.08	1.14	5.95%	55.2	50.7	4.5	2.5	0.1	2.4	-25.2	-29.9	-18.60%

Object:	Date Issued:	Page 2 of 3
D750V3 – SN: 1097	09/13/2024	Page 2 of 3



Impedance & Return-Loss Measurement Plot for Head TSL

Object:	Date Issued:	Page 3 of 3	
D750V3 – SN: 1097	09/13/2024	Page 3 of 3	

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

Element

Client



S Schweizerischer Kalibrierdienst

- C Service suisse d'étalonnage
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- 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

Certificate No: D750V3-1057_May22

CALIBRATION CERTIFICATE

Object	D750V3 - SN:105	7	ATA
Calibration procedure(s)	QA CAL-05,v11		· · · · · · · · · · · · · · · · · · ·
		dure for SAR Validation Sources	between 0.7-3 GHz 6/1/22
Calibration date:	May 16, 2022		VW 5/31/2024
			V YW 5/24/2023
This calibration certificate documen	its the traceability to natic	onal standards, which realize the physical unit	ts of measurements (SI).
The measurements and the uncerta	ainties with confidence pr	obability are given on the following pages and	d are part of the certificate.
		y 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
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)	Арг-23
Reference 20 dB Attenuator	SN: BH9394 (20k)	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: 7349	31-Dec-21 (No. EX3-7349_Dec21)	Dec-22
DAE4	SN: 601	02-May-22 (No. DAE4-601_May22)	May-23
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-20)	In house check; Oct-22
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-20)	In house check: Oct-22
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	
Network Analyzer Agriefit LoosoA	3N. 0341000477	Striviar 14 (in house check Oct-20)	In house check: Oct-22
	Name	Function	Signature
Calibrated by:	Aldonia Georgiadou	Laboratory Technician	
			May
Approved by:	Sven Kühn	Technical Manager	
			2. C
			Issued: May 17, 2022

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





S

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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	sensitivity in TSL / NORM x,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-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	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.9 ± 6 %	0.89 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.14 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.51 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.40 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.58 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.1 ± 6 %	0.95 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.19 W/kg
SAR for nominal Body TSL parameters	normalized to 1W [°]	8.80 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.45 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	5.80 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.7 Ω - 1.5 jΩ
Return Loss	- 30.4 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.3 Ω - 6.0 jΩ
Return Loss	- 23.9 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.038 ns

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
	of EAG

DASY5 Validation Report for Head TSL

Date: 16.05.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1057

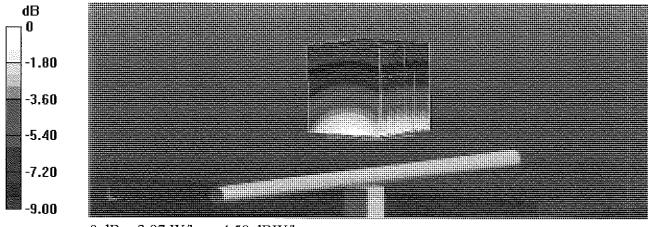
Communication System: UID 0 - CW; Frequency: 750 MHz Medium parameters used: f = 750 MHz; $\sigma = 0.89$ S/m; $\varepsilon_r = 40.9$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.11, 10.11, 10.11) @ 750 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.05.2022
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 59.41 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 3.28 W/kg SAR(1 g) = 2.14 W/kg; SAR(10 g) = 1.4 W/kg Smallest distance from peaks to all points 3 dB below = 17 mm Ratio of SAR at M2 to SAR at M1 = 65.1% Maximum value of SAR (measured) = 2.87 W/kg



0 dB = 2.87 W/kg = 4.58 dBW/kg

Impedance Measurement Plot for Head TSL

File	Yiew	⊆hannel	Sw <u>e</u> ep C	alibration	[race <u>5</u> cale	e M <u>a</u> rker	System	<u>W</u> indow H	elp			1
		Ch 1.Avg ≃	20		A			A last	000000 M 139.64 000000 M	рF	52.722 -1.5197 30.345 m -28.320	Ω 1U
	Ch1: 9	tart 550.000 h	viHz				J				Stop 950.000 v	1Hz
10.0 5.0 0.0 -5.0	10 10)` <: 	: 750.	d00000 Iv	Hz	-30.358 (
-10.	.00											
-13. -20.	,00, «											oij
-30 -35 -40	.80 .80	Ch 1 Avg =	20				<i>µ</i>					
	Ch1: \$	tart 550,000 l									Stop 930,000 N	/Hz
Sta	atus	CH 1: 🕴	311) (* 1 -Port		Avg=20 D	elay			LCL	eebeldmaarfedomiinifedo

.

DASY5 Validation Report for Body TSL

Date: 16.05.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1057

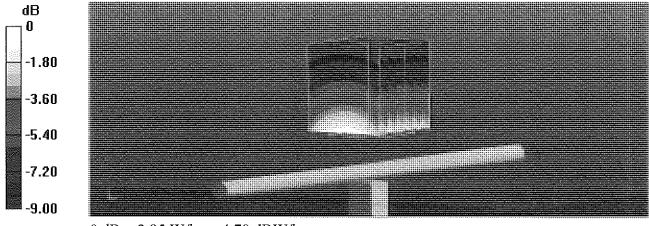
Communication System: UID 0 - CW; Frequency: 750 MHz Medium parameters used: f = 750 MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 54.1$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.23, 10.23, 10.23) @ 750 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.05.2022
- Phantom: Flat Phantom 4.9 (Back); Type: QD 00R P49 AA; Serial: 1005
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 58.35 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.38 W/kg SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.45 W/kg Smallest distance from peaks to all points 3 dB below = 18.4 mm Ratio of SAR at M2 to SAR at M1 = 65.5% Maximum value of SAR (measured) = 2.95 W/kg



0 dB = 2.95 W/kg = 4.70 dBW/kg

Impedance Measurement Plot for Body TSL

<u>File View</u>	<u>C</u> hannel S	w <u>e</u> ep Calibration	<u>Irace</u> <u>S</u> cale	M <u>a</u> rker	System <u>V</u>	⊻indow ∐e	₃ p		
	Ch 1,4wg≈ 20					No.	100000 MHz 35.187 pF 100000 MHz	5 -6 63 :	8.277 Ω 3.0308 Ω .700 mU 102.43 °
	t 559.000 MH:	2						Stop :	950.000 MHz
5.00 - 0.00 - -5.00 -					>	: 750.0	00000 MHz	-2:	3.917 dB
-10.00									
-25.00 - -30.00 - -35.00 -									
40.00	Ch 1 Avg ≃ 20 ≿ 550.000 MHa			1	· ·			Stop \$	950.000 MHz
Status	CH 1: §11		C* 1-Port		Avg=20 De	elay.			LCL





Certification of Calibration

Object

D750V3 - SN: 1057

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

May 16, 2023

Extended Calibration date:

Description: SAR Validation Dipole at 750 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/14/2022	Annual	6/14/2023	US39170118
Agilent	E4438C	ESG Vector Signal Generator	11/17/2022	Annual	11/17/2023	MY45093852
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Rohde & Schwarz	NRX	Power Meter	1/11/2023	Annual	1/11/2024	102583
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	5/19/2022	Annual	5/19/2023	106562
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	5/19/2022	Annual	5/19/2023	106559
Traceable	4040 90080-06	Therm./ Clock/ Humidity Monitor	5/11/2022	Biennial	5/11/2024	221514974
Control Company	4353	Long Stem Thermometer	9/10/2021	Biennial	9/10/2023	210774685
Agilent	85033E	3.5mm Standard Calibration Kit	6/21/2022	Annual	6/21/2023	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	8/15/2022	Annual	8/15/2023	1041
SPEAG	EX3DV4	SAR Probe	2/13/2023	Annual	2/13/2024	7427
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/15/2023	Annual	2/15/2024	1403

Measurement Uncertainty = $\pm 23\%$ (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer I	AC
Approved By:	Greg Snyder	Executive VP of Operations	Lugo Mark

Object:	Date Issued:	Page 1 of 4
D750V3 – SN: 1057	05/16/2023	Page 1 of 4

DIPOLE CALIBRATION EXTENSION

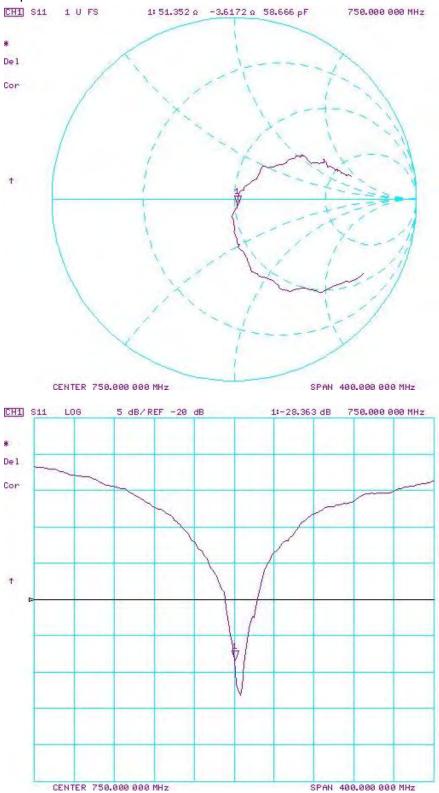
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from the calibration date:

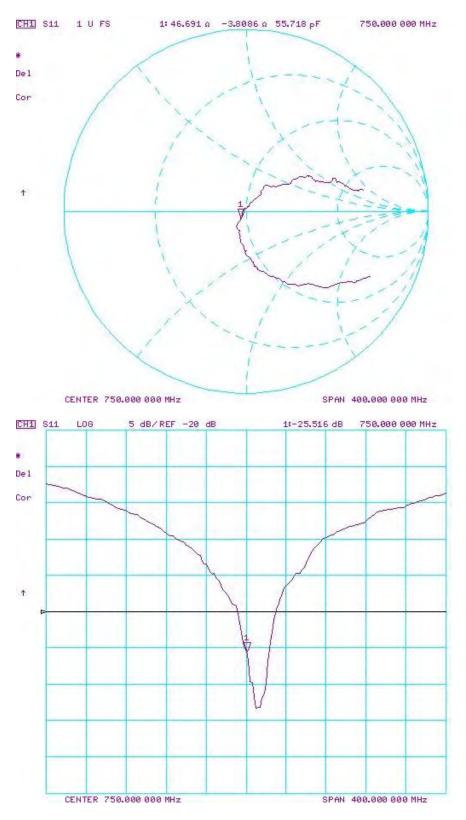
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 23.0 dBm	Measured Head SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 23.0 dBm	Measured Head	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real		Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary		Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
5/16/2022	5/16/2023	1.038	1.702	1.59	-6.58%	1.12	1.05	-5.91%	52.7	51.4	1.3	-1.5	-3.6	2.1	-30.4	-28.4	6.70%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 23.0 dBm	Measured Body SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 23.0 dBm	Measured Body SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
5/16/2022	5/16/2023	1.038	1.76	1.66	-5.68%	1.16	1.13	-2.59%	48.3	46.7	1.6	-6	-3.8	2.2	-23.9	-25.5	-6.80%	PASS

Object:	Date Issued:	Dogo 2 of 4
D750V3 – SN: 1057	05/16/2023	Page 2 of 4



Impedance & Return-Loss Measurement Plot for Head TSL

Object:	Date Issued:	Page 3 of 4
D750V3 – SN: 1057	05/16/2023	Page 3 of 4



Impedance & Return-Loss Measurement Plot for Body TSL

Object:	Date Issued:	Page 4 of 4
D750V3 – SN: 1057	05/16/2023	Page 4 of 4



ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST) 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.408.538.5600 http://www.element.com



Certification of Calibration

Object

D750V3 – SN: 1057

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: May 16, 2024

Description:

SAR Validation Dipole at 750 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/2/2023	Annual	6/12/2024	MY40003841
Agilent	E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
Amplifier Research	15\$1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2496A	Power Meter	6/15/2023	Annual	6/15/2024	1138001
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	2018527
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	1827528
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Control Company	4353	Ultra Long Stem Thermometer	10/24/2023	Annual	10/24/2024	200645916
Agilent	85033E	3.5mm Standard Calibration Kit	7/18/2023	Annual	7/18/2024	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	9/11/2023	Annual	9/11/2024	1045
SPEAG	EX3DV4	SAR Probe	10/2/2023	Annual	10/2/2024	3949
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/12/2023	Annual	9/12/2024	1684

Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer	AS
Approved By:	Greg Snyder	Executive VP of Operations	Lugo Miller

Object:	Date Issued:	Page 1 of 3
D750V3 – SN: 1057	05/16/2024	Fage 1015

DIPOLE CALIBRATION EXTENSION

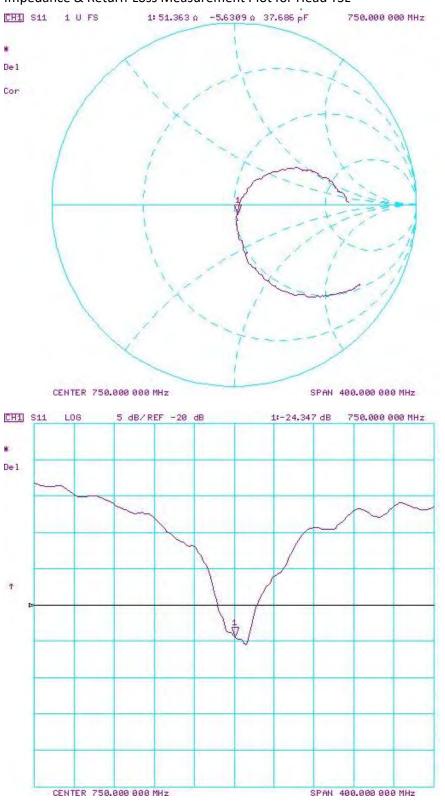
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

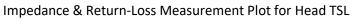
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from the calibration date:

Calibration Date	Extension Date	Certificate Electrical Delay (ns)		Measured Head SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 23.0 dBm	Measured Head SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real		Certificate Impedance Head (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)
5/16/2022	5/16/2024	1.038	1.7	1.75	2.82%	1.12	1.15	3.05%	52.7	51.4	1.3	-1.5	-5.6	4.1	-30.4	-24.3	19.90%

Object:	Date Issued:	Page 2 of 3
D750V3 – SN: 1057	05/16/2024	Page 2 of 3





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

Element

Client



S Schweizerischer Kalibrierdienst

- Service suisse d'étalonnage
- C Servizio svizzero di taratura

Accreditation No.: SCS 0108

S 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

Certificate No: D835V2-460_May22

	D835V2 - SN:460)	VATIA
Calibration procedure(s)	QA CAL-05.v11 Calibration Proce	dure for SAR Validation Sources	
			6/1/22
Calibration date:	May 16, 2022		✓ YW 5/22/202
This calibration certificate documer	nts the traceability to natio	onal standards, which realize the physical unit	•
		obability are given on the following pages and	
All calibrations have been conducte	ed in the closed laborator	y facility: environment temperature (22 ± 3)°C	and humidity < 70%.
		, ,	,
Calibration Equipment used (M&TE	E 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
	SN: 103244	04 4	
Power sensor NRP-Z91	SIN, 103244	04-Apr-22 (No. 217-03524)	Apr-23
	SN: 103244 SN: 103245	04-Apr-22 (No. 217-03524) 04-Apr-22 (No. 217-03525)	Apr-23 Apr-23
Power sensor NRP-Z91			
Power sensor NRP-Z91 Reference 20 dB Attenuator	SN: 103245	04-Apr-22 (No. 217-03525)	Apr-23
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination	SN: 103245 SN: BH9394 (20k)	04-Apr-22 (No. 217-03525) 04-Apr-22 (No. 217-03527)	Apr-23 Apr-23
Power sensor NRP-Z91 Reference 20 dB Attenuator Fype-N mismatch combination Reference Probe EX3DV4	SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327	04-Apr-22 (No. 217-03525) 04-Apr-22 (No. 217-03527) 04-Apr-22 (No. 217-03528)	Apr-23 Apr-23 Apr-23
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4	SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349	04-Apr-22 (No. 217-03525) 04-Apr-22 (No. 217-03527) 04-Apr-22 (No. 217-03528) 31-Dec-21 (No. EX3-7349_Dec21)	Apr-23 Apr-23 Apr-23 Dec-22
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards	SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601	04-Apr-22 (No. 217-03525) 04-Apr-22 (No. 217-03527) 04-Apr-22 (No. 217-03528) 31-Dec-21 (No. EX3-7349_Dec21) 02-May-22 (No. DAE4-601_May22)	Apr-23 Apr-23 Apr-23 Dec-22 May-23
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter E4419B	SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601	04-Apr-22 (No. 217-03525) 04-Apr-22 (No. 217-03527) 04-Apr-22 (No. 217-03528) 31-Dec-21 (No. EX3-7349_Dec21) 02-May-22 (No. DAE4-601_May22) Check Date (in house)	Apr-23 Apr-23 Apr-23 Dec-22 May-23 Scheduled Check
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter E4419B Power sensor HP 8481A	SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475	04-Apr-22 (No. 217-03525) 04-Apr-22 (No. 217-03527) 04-Apr-22 (No. 217-03528) 31-Dec-21 (No. EX3-7349_Dec21) 02-May-22 (No. DAE4-601_May22) Check Date (in house) 30-Oct-14 (in house check Oct-20)	Apr-23 Apr-23 Apr-23 Dec-22 May-23 Scheduled Check In house check: Oct-22
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A	SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475 SN: US37292783	04-Apr-22 (No. 217-03525) 04-Apr-22 (No. 217-03527) 04-Apr-22 (No. 217-03528) 31-Dec-21 (No. EX3-7349_Dec21) 02-May-22 (No. DAE4-601_May22) Check Date (in house) 30-Oct-14 (in house check Oct-20) 07-Oct-15 (in house check Oct-20)	Apr-23 Apr-23 Apr-23 Dec-22 May-23 Scheduled Check In house check: Oct-22 In house check: Oct-22
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06	SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475 SN: US37292783 SN: MY41093315	04-Apr-22 (No. 217-03525) 04-Apr-22 (No. 217-03527) 04-Apr-22 (No. 217-03528) 31-Dec-21 (No. EX3-7349_Dec21) 02-May-22 (No. DAE4-601_May22) Check Date (in house) 30-Oct-14 (in house check Oct-20) 07-Oct-15 (in house check Oct-20) 07-Oct-15 (in house check Oct-20)	Apr-23 Apr-23 Apr-23 Dec-22 May-23 Scheduled Check In house check: Oct-22 In house check: Oct-22 In house check: Oct-22
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer Agilent E8358A	SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972	04-Apr-22 (No. 217-03525) 04-Apr-22 (No. 217-03527) 04-Apr-22 (No. 217-03528) 31-Dec-21 (No. EX3-7349_Dec21) 02-May-22 (No. DAE4-601_May22) Check Date (in house) 30-Oct-14 (in house check Oct-20) 07-Oct-15 (in house check Oct-20) 07-Oct-15 (in house check Oct-20) 15-Jun-15 (in house check Oct-20)	Apr-23 Apr-23 Apr-23 Dec-22 May-23 Scheduled Check In house check: Oct-22 In house check: Oct-22 In house check: Oct-22 In house check: Oct-22
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06	SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972 SN: US41080477	04-Apr-22 (No. 217-03525) 04-Apr-22 (No. 217-03527) 04-Apr-22 (No. 217-03528) 31-Dec-21 (No. EX3-7349_Dec21) 02-May-22 (No. DAE4-601_May22) Check Date (in house) 30-Oct-14 (in house check Oct-20) 07-Oct-15 (in house check Oct-20) 07-Oct-15 (in house check Oct-20) 15-Jun-15 (in house check Oct-20) 31-Mar-14 (in house check Oct-20)	Apr-23 Apr-23 Apr-23 Dec-22 May-23 Scheduled Check In house check: Oct-22 In house check: Oct-22 In house check: Oct-22 In house check: Oct-22 In house check: Oct-22 Signature
Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer Agilent E8358A	SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972 SN: US41080477 Name	04-Apr-22 (No. 217-03525) 04-Apr-22 (No. 217-03527) 04-Apr-22 (No. 217-03528) 31-Dec-21 (No. EX3-7349_Dec21) 02-May-22 (No. DAE4-601_May22) Check Date (in house) 30-Oct-14 (in house check Oct-20) 07-Oct-15 (in house check Oct-20) 07-Oct-15 (in house check Oct-20) 15-Jun-15 (in house check Oct-20) 31-Mar-14 (in house check Oct-20) Function	Apr-23 Apr-23 Apr-23 Dec-22 May-23 Scheduled Check In house check: Oct-22 In house check: Oct-22

Calibration Laboratory of

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





Schweizerischer Kalibrierdienst

S Service suisse d'étalonnage С

Servizio svizzero di taratura S

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

Glossarv:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,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-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. ۲
- 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%.

Accreditation No.: SCS 0108

Measurement Conditions

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
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	40.7 ± 6 %	0.92 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.48 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.72 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input powe r	1.61 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	6.34 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.9 7 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	53.9±6%	0.97 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.46 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	9.79 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW inp u t power	1.62 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	6.46 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.9 Ω - 0.3 jΩ
Return Loss	- 40.7 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.9 Ω - 5.2 jΩ
Return Loss	- 24.1 dB

General Antenna Parameters and Design

trical Delay (one direction)	1.381 ns
------------------------------	----------

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	

DASY5 Validation Report for Head TSL

Date: 16.05.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:460

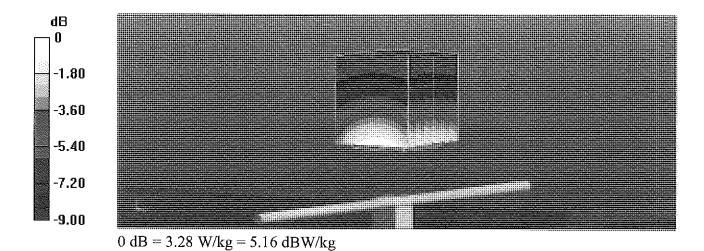
Communication System: UID 0 - CW; Frequency: 835 MHz Medium parameters used: f = 835 MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 40.7$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(9.69, 9.69, 9.69) @ 835 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.05.2022
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 63.51 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 3.77 W/kg SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.61 W/kg Smallest distance from peaks to all points 3 dB below = 17.1 mm Ratio of SAR at M2 to SAR at M1 = 65.7% Maximum value of SAR (measured) = 3.28 W/kg



Impedance Measurement Plot for Head TSL

File	⊻iew	⊆hannel	Sw <u>e</u> ep	Calibration	Irace	Scale	M <u>a</u> rker	System	<u>W</u> indow	Help			
									Δ	5.00000 548 5.00000	3.80 pF	-34) 9.2	i0.869 Ω 7.31 mΩ 1786 mU 21.583 °
		Ch 1.Avg ≃ nt 635.000 N		100s								Stop	1.03500 GHz
10.0 5.0	0	IB S11						>	1: 83	5,0000	0 MHz	- 41	1.649 dB
0.0 -5.0			· · · · · · · · · · · · · · · · · · ·										
-10. -15.	1					~	24 apr						
-20.	v							\square					****
-30.	00 -							/					
-35. -40.	00	<u>Ch 1 Avg =</u> rt 635,000 N	20 4Hz	Ph								Stop	1.03500 GHz
Sta	tus	CH 1: §	;11		C* 1-Po	t		Avg=20	Delay				LCL

DASY5 Validation Report for Body TSL

Date: 16.05.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:460

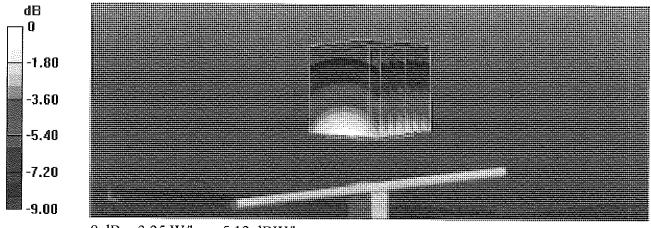
Communication System: UID 0 - CW; Frequency: 835 MHz Medium parameters used: f = 835 MHz; $\sigma = 0.97$ S/m; $\varepsilon_r = 53.9$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(9.85, 9.85, 9.85) @ 835 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.05.2022
- Phantom: Flat Phantom 4.9 (Back); Type: QD 00R P49 AA; Serial: 1005
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 58.16 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 3.62 W/kg SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.62 W/kg Smallest distance from peaks to all points 3 dB below = 15 mm Ratio of SAR at M2 to SAR at M1 = 67.9% Maximum value of SAR (measured) = 3.25 W/kg



0 dB = 3.25 W/kg = 5.12 dBW/kg

Impedance Measurement Plot for Body TSL

Eile	⊻iew	⊆hannel	Sw <u>e</u> ep	Calibration	Trace	<u>S</u> cale	M <u>a</u> rker	System	<u>W</u> indow	Help			
		Ch IAvg≃	20		(-				A	35.000000 36.9 35.000000	387 pF	-5 62.	6,881 Ω .1533 Ω 088 mU 118,14 °
	Ch1: Sta	art 635,000 l						<u>}</u>				Stop	1.03500 GHz
10.0 5.0 0.0 -5.0			· ·······					>) MHz	-2.	. 140 dB
-15. -20. -25. -30.	00 (* 00 - 00 -												
	00 Ch1: Sta	<u>Ch 1 Avg =</u> rt 635,000 N	dHz —									Stop	1.03500 GHz
Sta	tus	CH 1: 5	511	· · · · [C* 1-Por	ł		Avg=20	Delay			المراجعة والمحافظ والمراجع	LCL





Certification of Calibration

Object

D835V2 - SN: 460

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extended Calibration date:

May 16, 2023

Description:

SAR Validation Dipole at 835 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number	
Agilent	8753ES	S-Parameter Vector Network Analyzer	S-Parameter Vector Network Analyzer 6/14/2022				
Agilent	E4438C	ESG Vector Signal Generator	11/17/2022	Annual	11/17/2023	MY45093852	
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972	
Rohde & Schwarz	NRX	Power Meter	1/11/2023	Annual	1/11/2024	102583	
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	5/19/2022	Annual	5/19/2023	106562	
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	5/19/2022	Annual	5/19/2023	106559	
Traceable	4040 90080-06	Therm./ Clock/ Humidity Monitor	5/11/2022	Biennial	5/11/2024	221514974	
Control Company	4353	Long Stem Thermometer	9/10/2021	Biennial	9/10/2023	210774685	
Agilent	85033E	3.5mm Standard Calibration Kit	6/21/2022	Annual	6/21/2023	MY53402352	
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A	
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406	
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A	
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A	
SPEAG	DAK-3.5	Dielectric Assessment Kit	8/15/2022	Annual	8/15/2023	1041	
SPEAG	EX3DV4	SAR Probe	2/13/2023	Annual	2/13/2024	7427	
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/15/2023	Annual	2/15/2024	1403	

Measurement Uncertainty = $\pm 23\%$ (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer I	AC
Approved By:	Greg Snyder	Executive VP of Operations	Sugged Sol

Object:	Date Issued:	Page 1 of 4
D835V2 – SN: 460	05/16/2023	Page 1 of 4

DIPOLE CALIBRATION EXTENSION

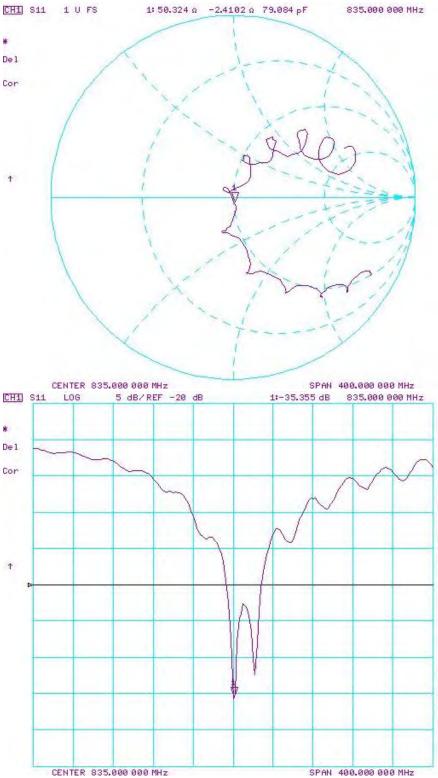
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

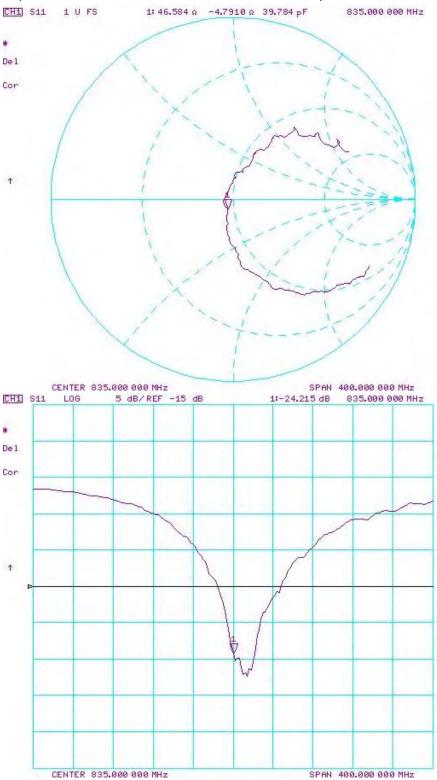
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 23.0 dBm	Measured Head SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 23.0 dBm	Measured Head SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary		Difference (Ohm) Imaginary	Return Loss	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
5/16/2022	5/16/2023	1.381	1.94	1.99	2.37%	1.27	1.31	3.31%	50.9	50.3	0.6	-0.3	-2.4	2.1	-40.7	-35.4	13.10%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 23.0 dBm	Measured Body SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 23.0 dBm	Measured Body SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
5/16/2022	5/16/2023	1.381	1.96	1.96	0.10%	1.29	1.33	2.94%	46.9	46.6	0.3	-5.2	-4.8	0.4	-24.1	-24.2	-0.50%	PASS

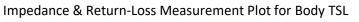
Object:	Date Issued:	Page 2 of 4
D835V2 – SN: 460	05/16/2023	Page 2 of 4



Impedance & Return-Loss Measurement Plot for Head TSL

Object:	Date Issued:	Daga 2 of 4
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Object:	Date Issued:	Page 4 of 4
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ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST) 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.408.538.5600 http://www.element.com



Certification of Calibration

Object

D835V2 – SN: 460

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: May 16, 2024

Description:

SAR Validation Dipole at 835 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/2/2023	Annual	6/12/2024	MY40003841
Agilent	E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
Amplifier Research	15\$1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2496A	Power Meter	6/15/2023	Annual	6/15/2024	1138001
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	2018527
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	1827528
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Control Company	4353	Ultra Long Stem Thermometer	10/24/2023	Annual	10/24/2024	200645916
Agilent	85033E	3.5mm Standard Calibration Kit	7/18/2023	Annual	7/18/2024	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	9/11/2023	Annual	9/11/2024	1045
SPEAG	EX3DV4	SAR Probe	8/10/2023	Annual	8/10/2024	7668
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/12/2023	Annual	9/12/2024	1681

Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer	AS
Approved By:	Greg Snyder	Executive VP of Operations	Sugged Syl

Object:	Date Issued:	Page 1 of 3
D835V2 – SN: 460	05/16/2024	Fage 1015

DIPOLE CALIBRATION EXTENSION

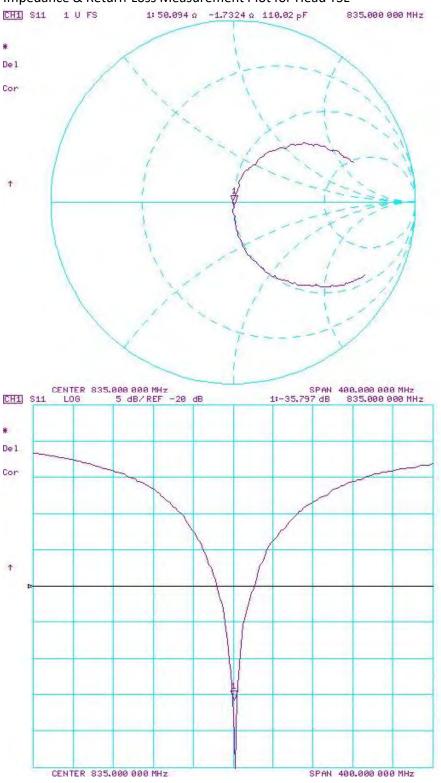
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from the calibration date:

Calibration Date	Extension Date	Electrical	Certificate SAR Target Head (1g) W/kg @ 23.0 dBm	W/kg @ 22.0	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 23.0 dBm		Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)
5/16/2022	5/16/2024	1.381	1.94	2.05	5.45%	1.27	1.33	4.89%	50.9	50.1	0.8	-0.3	-1.7	1.4	-40.7	-35.8	12.00%

Object:	Date Issued:	Page 2 of 3
D835V2 – SN: 460	05/16/2024	rage 2 01 5



Impedance & Return-Loss Measurement Plot for Head TSL

Object:	Date Issued:	Daga 2 of 2
D835V2 – SN: 460	05/16/2024	Page 3 of 3

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

BC-MRA



S Schweizerischer Kallbrierdienst

- C Service suisse d'étaionnage 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	Element Morgan Hill, USA		Certificate No.	EX-7682_May24
CAL		RTIFICATE		
Object		EX3DV4 - SN:7682		VATM
Calibra	tion procedure(s)	QA CAL-01.v10, QA CAL- QA CAL-25.v8 Calibration procedure for d	·	EL alaqui
Calibra	tion date	May 13, 2024		
		ments the traceability to national stand certainties with confidence probability a		

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
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
OCP DAK-3.5 (weighted)	SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Oct23)	Oct-24
OCP DAK-12	SN: 1016	05-Oct-23 (OCP-DAK12-1016_Oct23)	Oct-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	26-Mar-24 (No. 217-04046)	Mar-25
DAE4	SN: 660	23-Feb-24 (No. DAE4-660_Feb24)	Feb-25
Reference Probe EX3DV4	SN: 7349	03-Nov-23 (No. EX3-7349_Nov23)	Nov-24

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

	Name	Function	Signature	
Callbrated by	Aidonia Georgiadou	Laboratory Technician	May	
Approved by	Sven Kühn	Technical Manager	Su	
lssued: May 13, 2024 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.				

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





S Schweizerischer Kallbrierdienst

C Service suisse d'étaionnage 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 Ilquid
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	φ rotation around probe axis
Polarization $\hat{\theta}$	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ 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 $\vartheta = 0$ ($f \le 900$ 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 callbrated 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 $f \le 800$ 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).

Parameters of Probe: EX3DV4 - SN:7682

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (<i>k</i> = 2)
Norm $(\mu V/(V/m)^2)^A$	0.68	0.66	0.62	±10.1%
DCP (mV) ^B	102.8	104.3	104.1	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		Α	В	C	Ð	VR	Max	Max
			dB	dBõV		dB	m٧	dev.	Unc ^E
				-					k = 2
0	cw	X	0.00	0.00	1.00	0.00	122.6	±1.1%	±4.7%
		Y	0.00	0.00	1.00		137.9		
		Z	0.00	0.00	1.00		149.4		
10352	Pulse Waveform (200Hz, 10%)	X	1.70	61.49	7.01	10.00	60.0	±2.7%	±9.6%
		Y	1.60	61.02	6.52		60.0		
		Z	2.00	62.00	7.00		60.0	_	
10353	Pulse Waveform (200Hz, 20%)	X	0.80	60.00	5.16	6.99	80.0	±2.5%	±9.6%
		Y	22.00	74.00	9.00		80.0		
		Z	46.00	80.00	11.00		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	8.00	70.00	7.00	3.98	95.0	±2.6%	±9.6%
		Y	0.02	123.01	0.32		95.0		
		Z	0.10	130.09	0.55		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	11.28	156.52	11.55	2.22	120.0	±1.6%	±9.6%
		Y	8.75	159.53	3.16		120.0		
		Z	10.13	156.32	25.35		120.0		
10387	QPSK Waveform, 1 MHz	X	0.86	66.16	13.70	1.00	150.0	±4.1%	±9.6%
		Y	0.60	62.45	11.46		150.0		
ŀ		Z	0.61	62.23	11.26		150.0	1	
10388	QPSK Waveform, 10 MHz	X	1.56	66.26	14.54	0.00	150.0	±1.4%	±9.6%
		Y	1.32	64.35	13.30		150.0	1	
		Z	1.33	64.17	13.13		150.0	1	· · · · · · · · · · · · · · · · · · ·
10396	64-QAM Waveform, 100 kHz	— X	1.75	64.71	16.04	3.01	150.0	±1.2%	±9.6%
		Y	1.60	63.41	15.34		150.0		
		Z	1.58	63.05	15.07		150.0	1	
10399	64-QAM Waveform, 40 MHz	X	3.01	66.39	15.23	0.00	150.0	±1.7%	±9.6%
		Y	2.80	65.46	14.64	1	150.0		
		Z	2.82	65.44	14.59		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.09	65.87	15.36	0.00	150.0	±3.3%	±9.6%
		Y	4.03	65.97	15.30		150.0	}	
		Z	4.07	66.03	15.30	1	150.0	1	

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%.

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

^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 5). ^B Linearization parameter uncertainty for maximum specified field strength.

Parameters of Probe: EX3DV4 - SN:7682

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 msV ⁻²	T2 ms V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	T6
x	13.4	96.51	33.26	2.61	0.00	4.90	0.48	0.00	1.00
V	12.2	88.51	33.48	3.46	0.00	4.90	0.33	0.00	1.00
<u>z</u>	12.2	88.62	33.44	2.04	0.00	4.90	0.25	0.00	1.00

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	56.3°
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.

Parameters of Probe: EX3DV4 - SN:7682

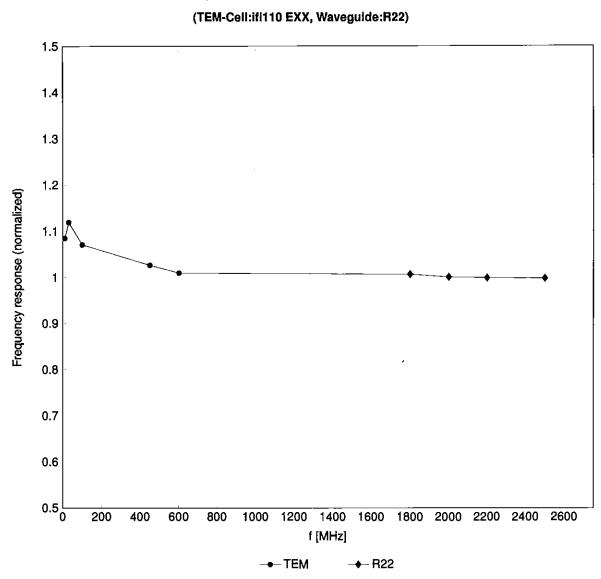
f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
750	41.9	0.89	9.94	9.61	10.53	0.40	1.27	±11.0%
835	41.5	0.90	9.76	9.52	10.09	0.40	1.27	±11.0%
1750	40.1	1.37	8.36	8.20	8.70	0.26	1.27	±11.0%
1900	40.0	1.40	8.19	8.06	8.54	0.29	1.27	±11.0%
2300	39.5	1.67	8.00	7.85	8.33	0.30	1.27	±11.0%
2450	39.2	1.80	7.87	7.72	8.18	0.30	1.27	±11.0%
2600	39.0	1.96	7.72	7.57	8.04	0.29	1.27	±11.0%

Calibration Parameter Determined in Head Tissue Simulating Media

^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 assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

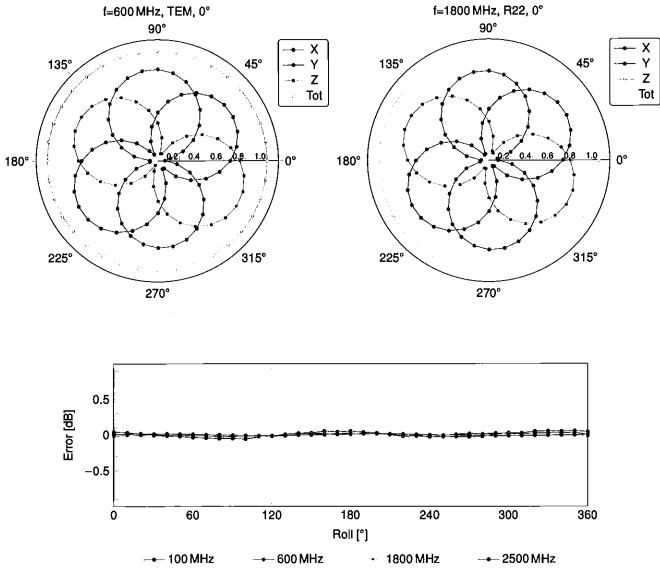
F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than $\pm 5\%$ from the target values (typically better than $\pm 3\%$) and are valid for TSL with deviations of up to $\pm 10\%$ if SAR correction is applied.

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



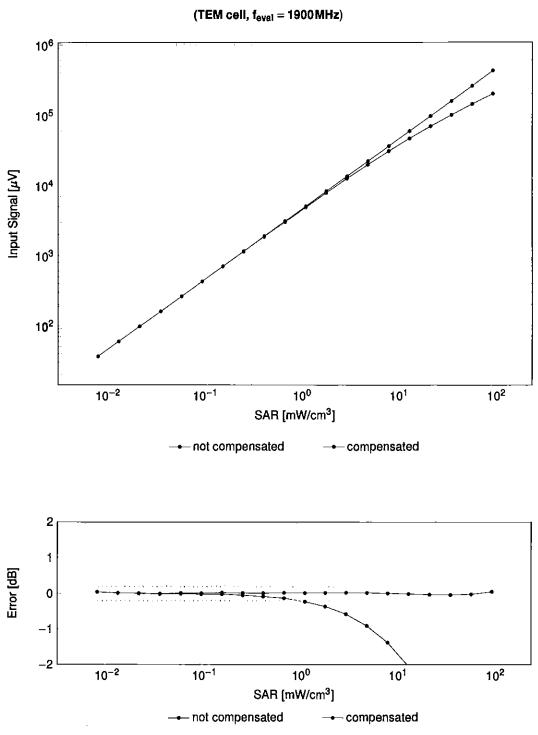
Frequency Response of E-Field

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



Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

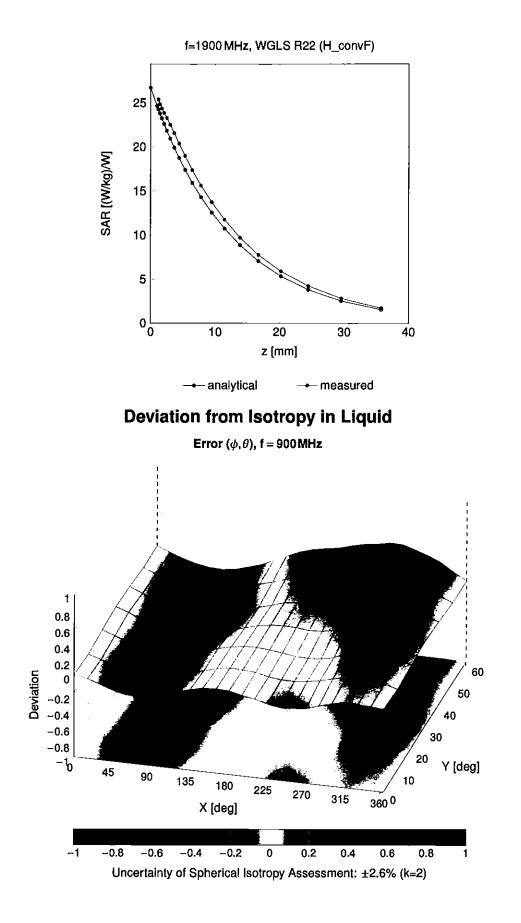
Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)



Dynamic Range f(SAR_{head})

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

Conversion Factor Assessment



Appendix: Modulation Calibration Parameters

	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
010	nev			0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10010	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10012	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10013	DAC	GSM-FDD (TDMA, GMSK)	GSM	9,39	±9.6
10021	DAC	GPRS-FDD (TDMA, GMSK)	GSM	9.57	±9.6
	<u> </u>	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	6.56	±9.6
10024	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
		GPRS-FDD (TDMA, GPSK, TN 0-1-2)	GSM	4.80	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6
10028			GSM	7.78	±9.6
	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	Bluetooth	5.30	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	1.87	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.16	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)		7.74	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth		
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
10035	CAA	IEEE 802,15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
10037	CAA	IÈEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluelooth	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS.	0.00	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
10059	CAB	IEEE 802.11b WiFI 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
10061	CAB	IEEE 802.11b WiFI 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
10062	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAE	IEEE 802.11a/h WiFI 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAE	IEEE 802.11a/h WiFI 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10076	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLÂN	11.00	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10098	CAC	UMTS-FDD (HSUPA, Sublest 2)	WCDMA	3.98	±9.6
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TOD	9.97	±9.6
10105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10109	UNIT				
10109 10110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6

			Group	PAR (dB)	$Unc^E k = 2$
UID	Rev	Communication System Name	Group	6.59	±9.6
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10113	CAH	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10114	CAE	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
10116	CAE	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10117	CAE	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
10118	CAE	IEEE 802.11n (HT Mixed, 61 Mbps, 16-QAM)	WLAN	8.59	±9.6
10119	CAE	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)		6.35	±9.6
10144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6 ±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)	LTE-FDD	6.58 5.46	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD LTE-FDD	6.21	±9.6
10167 10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)		6.52	±9.6
10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6
10182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK)	LTE-FDD	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10189 10193	AAG CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	LTE-FDD WLAN	6.50 8.09	±9.6 ±9.6
10193	CAE	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.09	±9.6
10194	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
10195	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
10198	CAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
10197	CAE	IEEE 802.11n (HT Mixed, 55 Mbps, 64-QAM)	WLAN	8.27	±9.6
10130	CAE	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6
10220	CAE	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
10221	CAE	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8,27	±9.6
10222	CAE	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
10223	CAE	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6
10224	CAE	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6
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Dut Mod Mode Number Stress Mode Number Stress Mode Number Stress 1282 CAC IFF TDD GC FEMAL, FB, 14MHL, H-GAMB IFF TDD GC FEMAL, FB, 14MHL, GAMB IFF TDD GC FEMAL, FB, 34MHL, GAMA IFF TDD GC FEMAL, FB, 34				Crown	PAR (dB)	$Unc^{E} k = 2$
1928 TOZC CAC LTE TOD GC FDMA, T BE, 14 MHZ, 16 CAM) LTE TOD 9.40 25.9 1928 TOZC CAC LTE TOD GC FDMA, T BE, 14 MHZ, 16 CAM) LTE TOD 9.28 25.9 1928 TOZE CAC LTE TOD GC FDMA, T BE, 14 MHZ, 16 CAM) LTE TOD 9.48 45.9 1928 TOZE CAE LTE TOD GC FDMA, T BE, 34 MHZ, 16 CAM) LTE TOD 9.48 45.9 1928 TOZE CAE LTE TOD GC FDMA, T BE, 34 MHZ, 16 CAM) LTE TOD 9.48 4.95 1928 TOZE CAH LTE TOD GC FDMA, T BE, 34 MHZ, 16 CAM) LTE TOD 9.48 4.95 1928 TOZE CAH LTE TOD GC FDMA, T BE, 34 MHZ, 16 CAM) LTE TOD 9.48 4.95 1928 TOZE CAH LTE TOD GC FDMA, T BE, 34 MHZ, 16 CAM) LTE TOD 9.48 4.95 1928 TOZE CAH LTE TOD GC FDMA, 178, 10 MHZ, 16 CAM) LTE TOD 9.48 4.95 1928 TOZE CAH LTE TOD GC FDMA, 90% R5, 14 MHZ, 16 CAM) LTE TOD 9.48 4.95 1928 TOZE CAH LTE TOD GC FDMA, 90% R5, 14 MHZ, 16 CAM)	UID	Rev	Communication System Name			
1022 CAC LET TOD 0.02 4.04 10268 CAC LET TOD 0.94 4.95 10268 CAC LET TOD 0.94 4.95 10262 CAC LET TOD 0.94 4.95 10262 CAE LET TOD 0.94 4.95 10263 CAE LET TOD 0.94 4.95 10281 CAE LET TOD 0.94 4.95 10282 CAH LET TOD 0.94 4.95 10284 CAH LET TOD 0.94 4.95 10285 CAH LET TOD 0.94 4.95 10286 CAH LET TOD 0.94 4.95 10287 CAH LET TOD 0.94 4.95 10286 CAH						
1228 CAC ITE-TDD (SC-TDMA, THB, TAHHL, OPSK) LTE-TDD 9-28 4.9.6 1228 CAE ITE-TDD (SC-TDMA, THB, SMHL, 94-CAM) LTE-TDD 9.48 4.9.6 1228 CAE ITE-TDD (SC-TDMA, THB, SMHL, 94-CAM) LTE-TDD 9.48 4.9.6 1228 CAE ITE-TDD (SC-TDMA, THB, SMHL, 94-CAM) LTE-TDD 9.48 4.9.6 1228 CAH ITE-TDD (SC-TDMA, THB, SMHL, 16-CAM) LTE-TDD 9.48 4.9.6 1228 CAH LTE-TDD (SC-TDMA, THB, 10MHL, 16-CAM) LTE-TDD 9.48 4.9.6 1228 CAH LTE-TDD (SC-TDMA, THB, 10MHL, 16-CAM) LTE-TDD 9.48 4.9.6 1228 CAH LTE-TDD (SC-TDMA, THB, 10MHL, 4C-AM) LTE-TDD 9.21 4.9.6 1228 CAG LTE-TDD (SC-TDMA, THB, 10MHL, 4C-AM) LTE-TDD 9.22 4.9.6 1228 CAG LTE-TDD (SC-TDMA, THB, 10MHL, 4C-AM) LTE-TDD 9.24 4.9.6 1228 CAG LTE-TDD (SC-TDMA, THB, 10MHL, 4C-AM) LTE-TDD 9.26 4.9.6						
1222 CAE LTE-TOD 50-40 LTE-TOD 50-40 1223 CAE LTE-TOD 50-50 19-85 19-86 1223 CAE LTE-TOD 50-50 19-85 19-86 1223 CAE LTE-TOD 50-60 19-85 19-86 1223 CAH LTE-TOD 50-60 19-86 19-86 1223 CAH LTE-TOD 50-61 19-86 19-86 1224 CAH LTE-TOD 50-61 19-86 19-86 19-86 1225 CAH LTE-TOD 50-61 19-86						
10281 CAE LTE-TDD (SC-FDMA, 1 BB, 3HHz, 4C-GMA) LTE-TDD 9.49 9.98 10281 CAE LTE-TDD (SC-FDMA, 1 BB, 3HHz, 4C-GMA) LTE-TDD 9.48 49.6 10282 CAH LTE-TDD (SC-FDMA, 1 BB, 5HHz, 4C-GMA) LTE-TDD 10.25 49.6 10284 CAH LTE-TDD (SC-FDMA, 1 BB, 5HHz, 4C-GMA) LTE-TDD 5.48 49.6 10285 CAH LTE-TDD (SC-FDMA, 1 BB, 10HHz, 4C-GMA) LTE-TDD 5.48 49.6 10286 CAH LTE-TDD (SC-FDMA, 1 BB, 10HHz, 4C-GMA) LTE-TDD 9.41 49.6 10287 CAH LTE-TDD (SC-FDMA, 1 BB, 10HHz, 4C-GMA) LTE-TDD 9.42 49.6 10286 CAG LTE-TDD (SC-FDMA, 1 BB, 15HHz, 4C-GMA) LTE-TDD 9.42 49.6 10286 CAG LTE-TDD (SC-FDMA, 50K, BB, 1.4HHz, 4C-GMA) LTE-TDD 9.42 49.6 10284 CAC LTE-TDD (SC-FDMA, 50K, BB, 3.4Hz, CPSK) LTE-TDD 9.42 49.6 10284 CAC LTE-TDD (SC-FDMA, 50K, BB, 3.4Hz, CPSK) LTE-TDD 9.6						
10221 CAE CLE TOD GO-FOMA, TRG 3MH2, GPSK) LTE-TOD 9.49 49.69 10222 CAH TE-TOD GO-FOMA, TRG 5MH2, G4-CAM) LTE-TOD 9.48 49.69 10232 CAH TE-TOD GO-FOMA, TRG 5MH2, G4-CAM) LTE-TOD 9.21 49.6 10234 CAH TE-TOD GO-FOMA, TRG 5MH2, G4-CAM) LTE-TOD 9.24 49.6 10235 CAH TE-TOD GO-FOMA, TRG 10MH2, GPSK) LTE-TOD 9.48 49.6 10236 CAH TE-TOD GO-FOMA, TRG 10MH2, GPSK) LTE-TOD 9.48 49.6 10238 CAG TE-TOD GO-FOMA, TRG 15MH2, 44-CAM) LTE-TOD 9.44 49.6 10248 CAG TE-TOD GO-FOMA, TRG 15MH2, 44-CAM) LTE-TOD 9.21 49.6 10248 CAC TE-TOD GO-FOMA, SOK RB, 14MH2, GPSK) LTE-TOD 9.24 49.6 10242 CAC TE-TOD GO-FOMA, SOK RB, 14MH2, GPSK) LTE-TOD 9.84 49.6 10242 CAC TE-TOD GO-FOMA, SOK RB, 3MH2, 4CAM) LTE-TOD 9.04 49.6 1					·	
TO222 CAH TEFTDD (SCFPMA, TR8, 5HH2, 6CAM) TEFTDD 19.45 19.46 19.45 T0232 CAH TEFTDD (SCFPMA, TR8, 5HH2, CPSK) UTE-TDD 19.25 19.47 19.25 T0235 CAH TEFTDD (SCFPMA, TR8, 16HH2, CPSK) UTE-TDD 9.46 19.49 T0235 CAH TEFTDD (SCFPMA, TR8, 16HH2, 16-0AM) UTE-TDD 9.21 19.86 T0237 CAH TEFTDD (SCFPMA, TR8, 15HH2, 16-0AM) UTE-TDD 9.24 19.86 T0237 CAH TEFTDD (SCFPMA, TR8, 15HH2, 16-0AM) UTE-TDD 9.24 19.86 T0242 CAC TEFTDD (SCFPMA, 17R, 15HH2, 16-0AM) UTE-TDD 9.22 19.86 T0242 CAC TEFTDD (SCFPMA, 59K RE, 14HH2, 6-0AM) UTE-TDD 9.84 19.86 T0242 CAC TEFTDD (SCFPMA, 59K RE, 14HH2, 6-0AM) UTE-TDD 9.84 19.86 T0242 CAC TEFTDD (SCFPMA, 59K RE, 34HH2, 6-0AM) UTE-TDD 9.84 19.86 T0242 CAC TEFTDD (SCFPMA, 59K RE, 34HH2, 6-0AM) UTE-TDD					_	
1223 CAH LTE-TDD 1265 CAH LTE-TDD 1264 49.8 10226 CAH LTE-TDD 126.5 L99.6		<u> </u>				
TOZ21 CAH LTE-TDD Disc: Disc Disc <thdisc< th=""> Disc <thdisc< th=""> <</thdisc<></thdisc<>					10.25	±9.6
Totas CAH LTF-TDD CSC-PDIA TB, 10MHz, 19-CAMM Totas CAH LTF-TDD ISC-PDIAA, 1 BB, 10MHz, 0PSIG LTF-TDD 9.21 ±9.6 Totas CAH LTF-TDD (SC-PDIAA, 1 BB, 11MHz, 0PSIG) LTF-TDD 9.24 ±9.6 Totas CAG LTF-TDD (SC-PDIAA, 1 BB, 15MHz, 0PSIG) LTF-TDD 9.24 ±9.6 Totas CAG LTF-TDD (SC-PDIAA, 1 BB, 15MHz, 0PSIG) LTF-TDD 9.28 ±9.6 Totas CAG LTF-TDD (SC-PDIAA, 1 BB, 15MHz, 0PSIG) LTF-TDD 9.88 ±9.8 Totas CAC LTF-TDD (SC-PDIAA, 50% RB, 1 AMHz, 0PSIG) LTF-TDD 9.86 ±9.8 Totas CAC LTF-TDD (SC-PDIAA, 50% RB, 3 MHz, 60-AMI) LTF-TDD 10.06 ±9.6 Totas CAC LTF-TDD (SC-PDIAA, 50% RB, 3 MHz, 60-AMI) LTF-TDD 10.06 ±9.6 Totas LTF-TDD (SC-PDIAA, 50% RB, 3 MHz, 60-AMI) LTF-TDD 10.06 ±9.6 Totas LTF-TDD (SC-PDIAA, 50% RB, 3 MHz, 60-AMI) LTF-TDD 50.6 ±9.6 L				LTE-TDD	9.21	±9.6
Totage CAH LTF-TDD Display CHA TE-TDD Display CHA TE-TDD <thcha< th=""> Display Display</thcha<>		CAH		LTE-TDD	9.48	±9.6
Togar CAH LTF-TDD Ge-EDMA, T BR, 10MHz, QPSIG LTF-TDD 9.21 ±9.6 TO282 CAG LTF-TDD (GE-EDMA, T BR, 15MHz, 8+CAM) LTF-TDD 9.24 ±9.6 TO282 CAG LTF-TDD (GE-EDMA, T BR, 15MHz, 9+CAM) LTF-TDD 9.24 ±9.6 TO281 CAG LTF-TDD (GE-EDMA, 1BR, 15MHz, 9+CAM) LTF-TDD 9.82 ±9.8 TO284 CAG LTF-TDD (GE-EDMA, 50% RB, 14MHz, 40-CAM) LTF-TDD 9.86 ±9.8 TO284 CAG LTF-TDD (GE-EDMA, 50% RB, 14MHz, 40-CAM) LTF-TDD 10.06 ±9.8 TO284 CAG LTF-TDD (GE-EDMA, 50% RB, 3MHz, 40-CAM) LTF-TDD 9.30 ±9.8 TO284 CAG LTF-TDD (GE-EDMA, 50% RB, 3MHz, 40-CAM) LTF-TDD 9.30 ±9.8 T0284 CAG LTF-TDD (GE-EDMA, 50% RB, 3MHz, 40-CAM) LTF-TDD 9.30 ±9.8 T0284 CAG LTF-TDD (GE-EDMA, 50% RB, 5MHz, 40-CAM) LTF-TDD 9.30 ±9.6 T0284 CAG LTF-TDD (GE-EDMA, 50% RB, 5MHz, 40-CAM) LTF-TDD <t< td=""><td></td><td>CAH</td><td></td><td></td><td>10.25</td><td>±9.6</td></t<>		CAH			10.25	±9.6
Top280 CAG LTE-TDD (SC-FDMA, TR, 15MHz, 64-CAM) LTE-TDD 19.21 19.86 Top240 CAG LTE-TDD (SC-FDMA, 198, 15MHz, 64-CAM) LTE-TDD 9.82 19.66 Top240 CAG LTE-TDD (SC-FDMA, 50% FB, 1.4 MHz, 16-CAM) LTE-TDD 9.82 19.66 Top240 CAG LTE-TDD (SC-FDMA, 50% FB, 1.4 MHz, 16-CAM) LTE-TDD 9.66 19.66 Top240 CAC LTE-TDD (SC-FDMA, 50% FB, 3.4 MHz, 16-CAM) LTE-TDD 10.066 1.86 Top240 CAC LTE-TDD (SC-FDMA, 50% FB, 3.4 MHz, 16-CAM) LTE-TDD 9.30 9.98 Top240 CAH LTE-TDD (SC-FDMA, 50% FB, 5.4 MHz, 16-CAM) LTE-TDD 9.99 19.81 Top240 CAH LTE-TDD (SC-FDMA, 50% FB, 5.4 MHz, 64-CAM) LTE-TDD 9.09 19.81 Top240 CAH LTE-TDD (SC-FDMA, 50% FB, 5.4 MHz, 64-CAM) LTE-TDD 9.09 19.81 Top240 CAH LTE-TDD (SC-FDMA, 50% FB, 5.4 MHz, 64-CAM) LTE-TDD 9.04 19.61 Top250 CAH LTE-TDD (SC-FDMA, 50% FB, 5.4 MHz, 64-CAM)	10237	CAH		LTE-TDD	9.21	±9.6
10240 CAG TE-TDD (SC-FDMA, 19R, 15MHz, 0PSK) ITE-TDD 9.21 1.96 10241 CAC LITE-TDD (SC-FDMA, 50%, RB, 1.4MHz, 16-CMM) LITE-TDD 9.82 1.96 10242 CAC LITE-TDD (SC-FDMA, 50%, RB, 1.4MHz, 16-CMM) LITE-TDD 9.46 4.96 10244 CAE LITE-TDD (SC-FDMA, 50%, RB, 8MHz, 16-CMM) LITE-TDD 10.06 1.96 10244 CAE LITE-TDD (SC-FDMA, 50%, RB, 8MHz, 16-CMM) LITE-TDD 9.00 4.96 10246 CAE LITE-TDD (SC-FDMA, 50%, RB, 8MHz, 0FSK) LITE-TDD 9.30 4.96 10247 CAE LITE-TDD (SC-FDMA, 50%, RB, 8MHz, 0FSK) LITE-TDD 9.31 4.96 10248 CAH LITE-TDD (SC-FDMA, 50%, RB, 8MHz, 0FSK) LITE-TDD 9.31 4.96 10250 CAH LITE-TDD (SC-FDMA, 50%, RB, 8MHz, 0FSK) LITE-TDD 9.41 4.96 10252 CAH LITE-TDD (SC-FDMA, 50%, RB, 15MHz, 16-CAM) LITE-TDD 9.41 4.96 10254 CAG LITE-TDD (SC-FDMA, 50%, RB, 15MHz, 16-CAM) LITE-TDD<	10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-TDD	9.48	±9.6
Total CAC LTE*TOD 9.82 4.9.6 Total CAC LTE*TOD 9.82 4.9.6 Total CAC LTE*TOD 9.48 4.9.6 Total CAC LTE*TOD 9.48 4.9.6 Total CAC LTE*TOD 10.06 4.9.6 Total LTE*TOD CAC 1.9.6 4.9.6 Total	10239	CAG		LTE-TDD	10.25	±9.6
Total CAC LTE*TOD 9.82 4.9.6 Total CAC LTE*TOD 9.82 4.9.6 Total CAC LTE*TOD 9.48 4.9.6 Total CAC LTE*TOD 9.48 4.9.6 Total CAC LTE*TOD 10.06 4.9.6 Total LTE*TOD CAC 1.9.6 4.9.6 Total	10240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6
Totad CAC LTE-TDD Soft B36 Totad CAE LTE-TDD Soft B36 1986 Totad CAE LTE-TDD Soft B36 1986 Totad CAE LTE-TDD Soft B37 1986 Totad CAE LTE-TDD Soft B37 1986 Totad CAE LTE-TDD Soft B31 1986 Totad CAE LTE-TDD Soft B1, Totad 1986 1986 Totad CAE LTE-TDD Soft B1, Totad 1986 1986 Totad CAE LTE-TDD Soft B1, Totad 1986 1986	10241	CAC		LTE-TDD	9.82	±9.6
Totat CAE LTE-TOD Store Store 10245 CAE LTE-TOD SC-FDMA, 50%, RB, SMHz, 64-OAM) LTE-TOD 9.30 4.96 10247 CAE LTE-TOD (SC-FDMA, 50%, RB, SMHz, 42-OSK) LTE-TDD 9.31 4.96 10247 CAH LTE-TOD (SC-FDMA, 50%, RB, SMHz, 42-OSK) LTE-TDD 9.31 4.96 10248 CAH LTE-TOD (SC-FDMA, 50%, RB, SMHz, 42-OAM) LTE-TDD 9.31 4.96 10250 CAH LTE-TOD (SC-FDMA, 50%, RB, SMHz, 42-OAM) LTE-TDD 9.31 4.96 10250 CAH LTE-TOD (SC-FDMA, 50%, RB, SMHz, 44-OAM) LTE-TDD 9.24 4.96 10252 CAG LTE-TOD (SC-FDMA, 50%, RB, SMHz, 46-OAM) LTE-TDD 9.49 4.96 10253 CAG LTE-TOD (SC-FDMA, 50%, RB, SMHz, 46-OAM) LTE-TDD 9.49 4.96 10254 CAG LTE-TOD (SC-FDMA, 50%, RB, SMHz, 46-OAM) LTE-TDD 9.49 4.96 10255 CAC LTE-TDD (SC-FDMA, 100%, RB, 3MHz, 46-OAM) LTE-TDD 9.34 4.98	10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
Totage CAE LTE-TDD SO-RE SMHz A-DAM3 LTE-TDD 10.06 19.8 Totage CAE LTE-TDD SO-RE SMHz A-DAM3 LTE-TDD 9.30 4.96 Totage CAH LTE-TDD SO-RE SMHz A-DAM3 LTE-TDD 9.30 4.96 Totage CAH LTE-TDD SO-RE SMHz A-DAM3 LTE-TDD 9.30 4.96 Totage CAH LTE-TDD SO-RMA SMRz A-DAM3 LTE-TDD 9.81 4.96 Totage CAH LTE-TDD SO-RMA SMRz A-DAM3 LTE-TDD 9.84 4.96 Totage CAH LTE-TDD SO-RMA SMRz A-DAM3 LTE-TDD 9.84 4.96 Totage CAH LTE-TDD SO-RMA SMRz A-DAM3 LTE-TDD 1.96 4.96 Totage CAC LTE-TDD SO-RMA SMRZ HAM2 HAM3 HTE-TDD 1.96	10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TOD	9.46	±9.6
Totade CAE LTE-TDD (SC-FDMA, 599; RB, 3MHz, 0FSAM) LTE-TDD 9.30 19.6 Totady CAH LTE-TDD (SC-FDMA, 599; RB, 5MHz, 0FCAM) LTE-TDD 9.61 4.9.6 Totady CAH LTE-TDD (SC-FDMA, 599; RB, 5MHz, 0FCAM) LTE-TDD 9.8.1 4.9.6 Totady CAH LTE-TDD (SC-FDMA, 599; RB, 5MHz, 0FCAM) LTE-TDD 9.8.1 4.9.6 Totady CAH LTE-TDD (SC-FDMA, 599; RB, 10MHz, 64-CAM) LTE-TDD 9.2.4 4.9.6 Totady CAH LTE-TDD (SC-FDMA, 599; RB, 15MHz, 16-CAM) LTE-TDD 9.2.4 4.9.6 Totady CAG LTE-TDD (SC-FDMA, 599; RB, 15MHz, 16-CAM) LTE-TDD 9.2.0 4.9.6 Totady CAG LTE-TDD (SC-FDMA, 599; RB, 15MHz, 16-CAM) LTE-TDD 9.2.0 4.9.6 Totady CAE LTE-TDD (SC-FDMA, 1009; RB, 15MHz, 16-CAM) LTE-TDD 9.2.0 4.9.6 Totady CAC LTE-TDD (SC-FDMA, 1009; RB, 14MHz, 16-CAM) LTE-TDD 9.3.4 4.9.6 Totady CAC LTE-TDD (SC-FDMA, 1009; RB, 3MHz, 6-CAM)	10244	CAE	LTE-TOD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
Totage CAH LTE-TDD (SC-FDMA, 59% RB, 5MHz, 64-CAM) LTE-TDD 10.99 1.98 T0248 CAH LTE-TDD (SC-FDMA, 59% RB, 5MHz, 64-CAM) LTE-TDD 10.09 1.98 T0249 CAH LTE-TDD (SC-FDMA, 59% RB, 10MHz, 10-CAM) LTE-TDD 9.28 1.986 T0251 CAH LTE-TDD (SC-FDMA, 59% RB, 10MHz, 0-CAM) LTE-TDD 9.24 1.986 T0252 CAH LTE-TDD (SC-FDMA, 59% RB, 10MHz, 0-CAM) LTE-TDD 9.24 1.986 T0252 CAH LTE-TDD (SC-FDMA, 59% RB, 10MHz, 0-CAM) LTE-TDD 9.24 1.986 T0254 CAG LTE-TDD (SC-FDMA, 109% RB, 15MHz, 10-CAM) LTE-TDD 9.20 1.986 T0255 CAC LTE-TDD (SC-FDMA, 100% RB, 1.5MHz, 0-CAM) LTE-TDD 9.20 1.986 T0255 CAC LTE-TDD (SC-FDMA, 100% RB, 1.5MHz, 0-CAM) LTE-TDD 10.08 1.99.6 T0256 CAC LTE-TDD (SC-FDMA, 100% RB, 3.4MHz, 0-CAM) LTE-TDD 9.38 1.98.6 T0256 LTE-TDD (SC-FDMA, 100% RB, 3.4MHz, 0-SAMA) LTE-TDD 9.	10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TOD	10.06	±9.6
Totade CAH LTE-TDD [SC-FDMA, 50% RB, SMHz, QFSK) LTE-TDD 10.09 41.9.6 Totade CAH LTE-TDD [SC-FDMA, 50% RB, 10 MHz, 16-QAM) LTE-TDD 9.81 49.6 Totade CAH LTE-TDD [SC-FDMA, 50% RB, 10 MHz, 16-QAM) LTE-TDD 9.81 49.6 Totade CAH LTE-TDD [SC-FDMA, 50% RB, 10 MHz, 46-QAM) LTE-TDD 9.24 49.6 Totade CAH LTE-TDD [SC-FDMA, 50% RB, 15 MHz, 40-QAM) LTE-TDD 9.90 49.6 Totade LTE-TDD [SC-FDMA, 50% RB, 15 MHz, 40-QAM) LTE-TDD 9.20 49.6 Totade CAG LTE-TDD [SC-FDMA, 100% RB, 15 MHz, QPSK) LTE-TDD 9.20 49.6 Totade CAC LTE-TDD [SC-FDMA, 100% RB, 14 MHz, 40-QM) LTE-TDD 9.84 49.8 Totade CAC LTE-TDD [SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD 9.34 49.8 Totade CAC LTE-TDD [SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD 9.37 49.6 Totade CAC LTE-TDD [SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD 9	10246	CAE		LTE-TDD	9.30	±9.6
Totage CAH LTE-TDD SC-FDMA, 50%, RB, 10MHz, 60AM) LTE-TDD 9.29 ±9.6 T0250 CAH LTE-TDD (SC-FDMA, 50%, RB, 10MHz, 64-CM) LTE-TDD 10.17 ±8.6 T0251 CAH LTE-TDD (SC-FDMA, 50%, RB, 10MHz, 64-CM) LTE-TDD 9.24 ±9.6 T0252 CAH LTE-TDD (SC-FDMA, 50%, RB, 15MHz, 10-CAM) LTE-TDD 9.02 ±9.6 T0253 CAG LTE-TDD (SC-FDMA, 50%, RB, 15MHz, 10-CAM) LTE-TDD 9.02 ±9.6 T0255 CAC LTE-TDD (SC-FDMA, 100%, RB, 15MHz, 10-CAM) LTE-TDD 9.04 ±9.6 T0255 CAC LTE-TDD (SC-FDMA, 100%, RB, 14MHz, 10-CAM) LTE-TDD 9.34 ±9.6 T0256 CAC LTE-TDD (SC-FDMA, 100%, RB, 14MHz, 10-CAM) LTE-TDD 9.7 ±9.6 T0260 CAE LTE-TDD (SC-FDMA, 100%, RB, 5MHz, 40-CAM) LTE-TDD 9.7 ±9.6 T0261 CAE LTE-TDD (SC-FDMA, 100%, RB, 5MHz, 20-SK) LTE-TDD 9.7 ±9.6 T0262 CAE LTE-TDD (SC-FDMA, 100%, RB, 5MHz, 20-SK) <t< td=""><td>10247</td><td>CAH</td><td>LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)</td><td>LTE-TDD</td><td>9.91</td><td>±9.6</td></t<>	10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
10280 CAH LTE-TDD 9.81 49.6 10281 CAH LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-QAM) LTE-TDD 9.81 49.6 10282 CAH LTE-TDD (SC-FDMA, 50% RB, 15MHz, 40-QAM) LTE-TDD 9.24 49.6 10283 CAG LTE-TDD (SC-FDMA, 50% RB, 15MHz, 40-QAM) LTE-TDD 9.24 49.6 10284 CAG LTE-TDD (SC-FDMA, 50% RB, 15MHz, 40-QAM) LTE-TDD 9.20 49.6 10285 CAG LTE-TDD (SC-FDMA, 100% RB, 14MHz, QPSK) LTE-TDD 9.20 49.6 10257 CAC LTE-TDD (SC-FDMA, 100% RB, 14MHz, QPSK) LTE-TDD 9.34 49.6 10285 CAC LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM) LTE-TDD 9.34 49.6 10280 CAE LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM) LTE-TDD 9.24 49.6 10282 CAE LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM) LTE-TDD 9.24 49.6 10282 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM) LTE-TDD 9.23	10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)	LTE-TDD	10.09	±9.6
10281 CAH LTE-TDD (SC-FDMA, 50%, RB, 10MHz, QFSK) LTE-TDD 10.17 ±9.6 10282 CAH LTE-TDD (SC-FDMA, 50%, RB, 15MHz, 16-CAM) LTE-TDD 9.24 ±9.6 10283 CAG LTE-TDD (SC-FDMA, 50%, RB, 15MHz, 16-CAM) LTE-TDD 9.20 ±9.6 10285 CAG LTE-TDD (SC-FDMA, 50%, RB, 15MHz, 16-CAM) LTE-TDD 9.20 ±9.6 10285 CAC LTE-TDD (SC-FDMA, 100%, RB, 15MHz, 16-CAM) LTE-TDD 9.36 ±9.6 10285 CAC LTE-TDD (SC-FDMA, 100%, RB, 14MHz, 16-CAM) LTE-TDD 9.34 ±9.6 10285 CAE LTE-TDD (SC-FDMA, 100%, RB, 3MHz, 16-CAM) LTE-TDD 9.34 ±9.6 10280 CAE LTE-TDD (SC-FDMA, 100%, RB, 3MHz, 16-CAM) LTE-TDD 9.24 ±9.6 10281 CAE LTE-TDD (SC-FDMA, 100%, RB, 3MHz, 16-CAM) LTE-TDD 9.24 ±9.6 10282 CAH LTE-TDD (SC-FDMA, 100%, RB, 3MHz, 16-CAM) LTE-TDD 9.24 ±9.6 102826 CAH LTE-TDD (SC-FDMA	10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
10282 CAH LITE-TDD SC-FDMA, 50% RB, 15MHz, 16-CAM) LITE-TDD 9.40 ±9.6 10283 CAG LITE-TDD (SC-FDMA, 50% RB, 15MHz, 16-CAM) LITE-TDD 9.40 ±9.6 10285 CAG LITE-TDD (SC-FDMA, 50% RB, 15MHz, 16-CAM) LITE-TDD 9.20 ±9.6 10256 CAG LITE-TDD (SC-FDMA, 100% RB, 14MHz, 16-CAM) LITE-TDD 9.20 ±9.6 10257 CAC LITE-TDD (SC-FDMA, 100% RB, 14MHz, 16-CAM) LITE-TDD 9.34 ±9.6 10258 CAC LITE-TDD (SC-FDMA, 100% RB, 14MHz, 0FSK) LITE-TDD 9.34 ±9.6 10285 CAE LITE-TDD (SC-FDMA, 100% RB, 3MHz, 16-CAM) LITE-TDD 9.34 ±9.6 10281 CAE LITE-TDD (SC-FDMA, 100% RB, 3MHz, 16-CAM) LITE-TDD 9.24 ±9.6 10282 CAH LITE-TDD (SC-FDMA, 100% RB, 5MHz, 16-CAM) LITE-TDD 9.24 ±9.6 10283 CAE LITE-TDD (SC-FDMA, 100% RB, 5MHz, 16-CAM) LITE-TDD 9.23 ±9.6 10284 CAH LITE-TDD (SC-FDMA, 100% RB, 5MHz, 64-CAM)<	10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
10253 CAG LTE-TDD SC-FDMA, 59% RB, 15 MHz, 16-CAM) LTE-TDD 9.90 ±9.6 10264 CAG LTE-TDD (SC-FDMA, 59% RB, 15 MHz, 04-CAM) LTE-TDD 9.20 ±9.6 10265 CAG LTE-TDD (SC-FDMA, 50% RB, 14 MHz, 16-CAM) LTE-TDD 9.20 ±9.6 10265 CAC LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 16-CAM) LTE-TDD 9.96 ±9.6 10265 CAC LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 16-CAM) LTE-TDD 9.34 ±9.6 10265 CAC LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-CAM) LTE-TDD 9.34 ±9.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-CAM) LTE-TDD 9.93 ±9.6 10261 CAE LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-CAM) LTE-TDD 9.23 ±9.6 10262 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-CAM) LTE-TDD 9.24 ±9.6 10263 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-CAM) LTE-TDD 10.16 ±9.6 10264 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-CAM) <	10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6
10284 CAG LTE-TDD 10.14 ±9.6 10285 CAG LTE-TDD 9.20 ±9.6 10286 CAG LTE-TDD 9.20 ±9.6 10285 CAG LTE-TDD 9.20 ±9.6 10285 CAC LTE-TDD 9.34 ±9.6 10285 CAC LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM) LTE-TDD 9.34 ±9.6 10286 CAE LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM) LTE-TDD 9.93 ±9.6 10281 CAE LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM) LTE-TDD 9.82 ±9.6 10282 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM) LTE-TDD 9.83 ±9.6 10282 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM) LTE-TDD 10.16 ±9.6 10282 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM) LTE-TDD 10.16 ±9.6 10282 CAH LTE-TDD (SC-FDMA, 100% RB, 10MHz, 16-QAM) LTE-TDD 9.32 ±9.6 10283 CAH<	10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10255 CAG LTE-TDD 9.20 ±9.6 10256 CAC LTE-TDD 9.96 ±9.6 10257 CAC LTE-TDD 9.96 ±9.6 10258 CAC LTE-TDD 9.96 ±9.6 10257 CAC LTE-TDD 9.96 ±9.6 10258 CAC LTE-TDD 9.34 ±9.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-OAM) LTE-TDD 9.97 ±9.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-OAM) LTE-TDD 9.24 ±9.6 10281 CAE LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-OAM) LTE-TDD 9.23 ±9.6 10285 CAH LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-OAM) LTE-TDD 9.23 ±9.6 10286 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-OAM) LTE-TDD 9.23 ±9.6 10286 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-OAM) LTE-TDD 10.07 ±9.8 10286 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-	10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6
10256 CAC LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) LTE-TDD 9.96 ±9.6 10257 CAC LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD 9.34 ±9.6 10258 CAC LTE-TDD (SC-FDMA, 100% RB, 3.MHz, QPSK) LTE-TDD 9.34 ±9.6 10259 CAE LTE-TDD (SC-FDMA, 100% RB, 3.MHz, QPSK) LTE-TDD 9.97 ±9.6 10280 CAE LTE-TDD (SC-FDMA, 100% RB, 3.MHz, QPSK) LTE-TDD 9.24 ±9.6 10281 CAE LTE-TDD (SC-FDMA, 100% RB, 3.MHz, QPSK) LTE-TDD 9.24 ±9.6 10282 CAH LTE-TDD (SC-FDMA, 100% RB, 5.MHz, 16-QAM) LTE-TDD 9.23 ±9.6 10286 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) LTE-TDD 9.23 ±9.6 10286 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) LTE-TDD 10.16 ±9.6 10286 CAG LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) LTE-TDD 10.13 ±9.8 10286 CAG LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	10254	CAG		LTE-TDD	10.14	±9.6
10257 CAC LTE-TDD 10.08 ±9.6 10258 CAC LTE-TDD IOX RB, 14 MHz, QPSK) LTE-TDD 9.34 ±9.6 10259 CAC LTE-TDD ISC-FDMA, 100% RB, 14 MHz, QPSK) LTE-TDD 9.98 ±9.6 10260 CAE LTE-TDD ISC-FDMA, 100% RB, 3MHz, 64-QAM) LTE-TDD 9.97 ±9.6 10260 CAE LTE-TDD ISC-FDMA, 100% RB, 3MHz, QPSK) LTE-TDD 9.83 ±9.6 10262 CAH LTE-TDD ISC-FDMA, 100% RB, 5MHz, 16-QAM) LTE-TDD 9.83 ±9.6 10263 CAH LTE-TDD ISC-FDMA, 100% RB, 5MHz, 16-QAM) LTE-TDD 9.2 ±9.6 10264 CAH LTE-TDD ISC-FDMA, 100% RB, 5MHz, 16-QAM) LTE-TDD 9.92 ±9.6 10265 CAH LTE-TDD ISC-FDMA, 100% RB, 10 MHz, 44-QAM) LTE-TDD 10.07 ±9.6 10266 CAH LTE-TDD ISC-FDMA, 100% RB, 15MHz, 44-QAM) LTE-TDD 10.06 ±9.6 10268 CAG LTE-TDD ISC-FDMA, 100% RB, 15MHz, 44-QAM) LTE-TDD 10.06	10255	CAG		LTE-TDD	9.20	±9.6
10258 CAC LTE-TDD 9.34 ±9.8 10259 CAE LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM) LTE-TDD 9.98 ±9.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 3MHz, GPSK) LTE-TDD 9.97 ±9.6 10261 CAE LTE-TDD (SC-FDMA, 100% RB, 3MHz, GPSK) LTE-TDD 9.24 ±9.6 10262 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, GPSK) LTE-TDD 9.83 ±9.8 10263 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, GPSK) LTE-TDD 9.23 ±9.6 10264 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, GPSK) LTE-TDD 9.23 ±9.6 10265 CAH LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM) LTE-TDD 9.02 ±9.8 10268 CAG LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM) LTE-TDD 10.07 ±9.8 10269 CAG LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM) LTE-TDD 10.13 ±9.6 10269 CAG LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM) LTE-TDD						
10259 CAE LTE-TDD (S.F.PDMA, 100%, RB, 3MHz, 16-QAM) LTE-TDD 9.98 ±9.8 10260 CAE LTE-TDD (S.F.PDMA, 100%, RB, 3MHz, Q-PSK) LTE-TDD 9.24 ±9.6 10261 CAE LTE-TDD (S.C.FDMA, 100%, RB, 5MHz, Q-PSK) LTE-TDD 9.24 ±9.6 10262 CAH LTE-TDD (SC.FDMA, 100%, RB, 5MHz, Q-PSK) LTE-TDD 9.23 ±9.6 10263 CAH LTE-TDD (SC.FDMA, 100%, RB, 5MHz, Q-PSK) LTE-TDD 9.23 ±9.6 10264 CAH LTE-TDD (SC.FDMA, 100%, RB, 10MHz, Q-QAM) LTE-TDD 9.22 ±9.6 10265 CAH LTE-TDD (SC.FDMA, 100%, RB, 10MHz, QPSK) LTE-TDD 9.00 ±9.8 10264 CAG LTE-TDD (SC.FDMA, 100%, RB, 15MHz, QPSK) LTE-TDD 10.07 ±9.8 10265 CAG LTE-TDD (SC.FDMA, 100%, RB, 15MHz, QPSK) LTE-TDD 10.3 ±9.8 10266 CAG LTE-TDD (SC.FDMA, 100%, RB, 15MHz, QPSK) LTE-TDD 10.3						
10260 CAE LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM) LTE-TDD 9.97 ±9.8 10261 CAE LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM) LTE-TDD 9.83 ±9.6 10262 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM) LTE-TDD 9.83 ±9.6 10263 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM) LTE-TDD 9.22 ±9.6 10264 CAH LTE-TDD (SC-FDMA, 100% RB, 10MHz, 16-QAM) LTE-TDD 9.22 ±9.6 10265 CAH LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM) LTE-TDD 9.92 ±9.8 10266 CAH LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM) LTE-TDD 9.92 ±9.8 10267 CAH LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM) LTE-TDD 10.07 ±9.8 10268 CAG LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM) LTE-TDD 10.07 ±9.8 10269 CAA LTE-TDD (SC-FDMA, 100% RB, 15MHz, 0PSK) LTE-TDD 10.06 ±9.6 10270 CAG LTE-TDD (SC-FDMA, 100% RB, 15MHz, 0PSK) LTE-TDD					1-	
10281 CAE LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK) LTE-TDD 9.24 ±9.6 10282 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM) LTE-TDD 9.83 ±9.6 10283 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 04-QAM) LTE-TDD 9.23 ±9.6 10284 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 04-QAM) LTE-TDD 9.22 ±9.6 10285 CAH LTE-TDD (SC-FDMA, 100% RB, 10MHz, 16-QAM) LTE-TDD 9.92 ±9.6 10286 CAH LTE-TDD (SC-FDMA, 100% RB, 10MHz, 04-QAM) LTE-TDD 9.30 ±8.6 10287 CAH LTE-TDD (SC-FDMA, 100% RB, 15MHz, 04-QAM) LTE-TDD 10.06 ±9.6 10288 CAG LTE-TDD (SC-FDMA, 100% RB, 15MHz, 04-QAM) LTE-TDD 10.13 ±9.8 10270 CAG LTE-TDD (SC-FDMA, 100% RB, 15MHz, 04-QAM) LTE-TDD 10.13 ±9.8 10274 CAC UMTS-FDD (HSUPA, Sublest 5, 3GPP Rel8.10) WCDMA 4.87 ±9.6 10275 CAC UMTS-FDD (HSUPA, Sublest 5, 3GPP Rel8.10) WCDMA						
10262 CAH LTE-TDD SC-FDMA, 100% RB, 5MHz, 16-QAM) LTE-TDD 9.83 ±9.6 10263 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM) LTE-TDD 10.16 ±9.6 10264 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM) LTE-TDD 9.23 ±9.6 10265 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) LTE-TDD 9.92 ±9.6 10266 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) LTE-TDD 9.30 ±9.8 10268 CAA LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 9.30 ±9.8 10268 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 10.06 ±9.6 10270 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 10.13 ±9.6 10274 CAC UTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 9.58 ±9.6 10275 CAC LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 9.58 ±9.6 10274 CAC UMTS-FDD (HSUPA, Sublest 5, 30PP Rel8.10)						
10263 CAH LTE-TDD 10.16 ±9.6 10264 CAH LTE-TDD (SC-FDMA, 100% RB, 5MHz, 0PSK) LTE-TDD 9.23 ±9.6 10265 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) LTE-TDD 9.92 ±9.6 10266 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) LTE-TDD 10.07 ±9.6 10267 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) LTE-TDD 9.30 ±9.6 10268 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 19-QAM) LTE-TDD 10.06 ±9.6 10269 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 0PSK) LTE-TDD 10.13 ±9.6 10270 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 0PSK) LTE-TDD 9.58 ±9.6 10274 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) WCDMA 4.87 ±9.6 10277 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) WCDMA 3.96 ±9.6 10279 CAA PHS (QPSK, BW 884 MHz, Rolioff 0.5) PHS 11.81 ±9.6						
10264 CAH LTE-TDD 9.23 ±9.6 10265 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) LTE-TDD 9.92 ±9.6 10266 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) LTE-TDD 9.92 ±9.6 10266 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) LTE-TDD 9.30 ±9.6 10267 CAH LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 18-QAM) LTE-TDD 9.30 ±9.6 10268 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 10.06 ±9.6 10270 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 9.58 ±9.6 10270 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 04-QAM) LTE-TDD 9.58 ±9.6 10275 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) WCDMA 4.87 ±9.6 10276 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) WCDMA 3.96 ±9.6 10277 CAA PHS (QPSK) WB84 MHz, Rolloff 0.5) PHS 11.81 ±9.6						
10265 CAH LTE-TDD 9.92 ±9.6 10266 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) LTE-TDD 10.07 ±9.6 10266 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) LTE-TDD 9.30 ±9.6 10268 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) LTE-TDD 10.06 ±9.6 10268 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) LTE-TDD 10.06 ±9.6 10270 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 0PSK) LTE-TDD 9.58 ±9.6 10274 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) WCDMA 4.87 ±9.6 10275 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) WCDMA 3.96 ±9.6 10276 CAA PHS (QPSK) PHS 11.81 ±9.6 10276 CAA PHS (QPSK, BW 884 MHz, Rolioff 0.5) PHS 11.81 ±9.6 10279 CAA PHS (QPSK, BW 884 MHz, Rolioff 0.38) PHS 12.18 ±9.6 10290 AAB			· · · · · · · · · · · · · · · · · · ·			-
10266 CAH LTE-TDD 10.07 ±9.6 10267 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) LTE-TDD 9.30 ±9.6 10268 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) LTE-TDD 10.08 ±9.6 10268 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 10.13 ±9.6 10270 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 9.58 ±9.6 10274 CAC UMTS-FDD (HSUPA, Sublest 5, 3GPP Rel8.10) WCDMA 4.87 ±9.6 10275 CAC UMTS-FDD (HSUPA, Sublest 5, 3GPP Rel8.10) WCDMA 3.96 ±9.6 10276 CAA PHS (QPSK) PHS 11.81 ±9.6 10277 CAA PHS (QPSK, BW 884 MHz, Rolloff 0.5) PHS 11.81 ±9.6 10279 CAA PHS (QPSK, BW 884 MHz, Rolloff 0.38) PHS 11.81 ±9.6 10280 AAB CDMA2000, RC3, SO35, Full Rate CDMA2000 3.39 ±9.6 10292 AAB						
10267 CAH LTE-TDD 9.30 ±9.6 10268 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) LTE-TDD 10.06 ±9.6 10268 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 10.13 ±9.6 10270 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 9.58 ±9.6 10270 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 9.58 ±9.6 10270 CAG LTTE-TDD (SC-FDMA, 100% RB, 15 MHz, 0PSK) LTE-TDD 9.58 ±9.6 10275 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) WCDMA 4.87 ±9.6 10276 CAA PHS (QPSK) PHS 11.81 ±9.6 10277 CAA PHS (QPSK, BW 884 MHz, Rolioff 0.38) PHS 11.81 ±9.6 10279 CAA PHS (QPSK, BW 884 MHz, Rolioff 0.38) PHS 11.81 ±9.6 10290 AAB CDMA2000, RC1, SO55, Full Rate CDMA2000 3.49 ±9.6						
10268 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) LTE-TDD 10.06 ±9.6 10269 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 10.13 ±9.6 10270 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) LTE-TDD 9.58 ±9.6 10274 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) WCDMA 4.87 ±9.6 10275 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) WCDMA 3.96 ±9.6 10277 CAA PHS (QPSK) PHS 11.81 ±9.6 10278 CAA PHS (QPSK, BW 884 MHz, Rolloff 0.5) PHS 11.81 ±9.6 10279 CAA PHS (QPSK, BW 884 MHz, Rolloff 0.38) PHS 11.81 ±9.6 10290 AAB CDMA2000, RC1, SO55, Full Rate CDMA2000 3.91 ±9.6 10291 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ±9.6 10292 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ±9.6 10293<						
10269 CAG LTE-TDD 10.13 ±9.6 10270 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) LTE-TDD 9.58 ±9.6 10274 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) WCDMA 4.87 ±9.6 10275 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) WCDMA 3.96 ±9.6 10275 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) WCDMA 3.96 ±9.6 10277 CAA PHS (QPSK, BW 884 MHz, Rollol1 0.5) PHS 11.81 ±9.6 10279 CAA PHS (QPSK, BW 884 MHz, Rollol1 0.38) PHS 12.18 ±9.6 10290 AAB CDMA2000, RC1, SO55, Full Rate CDMA2000 3.91 ±9.6 10291 AAB CDMA2000, RC3, SO25, Full Rate CDMA2000 3.46 ±9.6 10292 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.46 ±9.6 10292 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ±9.6 10293 AAB CDM				-		
10270 CAG LTE-TDD 9.58 ±9.6 10274 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) WCDMA 4.87 ±9.6 10275 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) WCDMA 3.96 ±9.6 10277 CAA PHS (QPSK) PHS 11.81 ±9.6 10278 CAA PHS (QPSK, BW 884 MHz, Rolloff 0.5) PHS 11.81 ±9.6 10279 CAA PHS (QPSK, BW 884 MHz, Rolloff 0.38) PHS 12.18 ±9.6 10290 AAB CDMA2000, RC1, SO55, Full Rate CDMA2000 3.91 ±9.6 10291 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ±9.6 10292 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ±9.6 10292 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.50 ±9.6 10292 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.50 ±9.6 10293 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	-					
10274 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) WCDMA 4.87 ±9.6 10275 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) WCDMA 3.96 ±9.6 10277 CAA PHS (QPSK) PHS 11.81 ±9.6 10278 CAA PHS (QPSK, BW 884 MHz, Rolloff 0.5) PHS 11.81 ±9.6 10279 CAA PHS (QPSK, BW 884 MHz, Rolloff 0.5) PHS 11.81 ±9.6 10279 CAA PHS (QPSK, BW 884 MHz, Rolloff 0.5) PHS 11.81 ±9.6 10290 AAB CDMA2000, RC1, SO55, Full Rate CDMA2000 3.91 ±9.6 10291 AAB CDMA2000, RC3, SO55, Full Rate CDMA2000 3.39 ±9.6 10292 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ±9.6 10293 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49 ±9.6 10295 AAB CDMA2000, RC3, SO56, Full Rate CDMA2000 12.49 ±9.6 10297 AAE <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>					1	
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10300 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-FDD 6.60 ±9.6 10301 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC) WiMAX 12.03 ±9.6 10302 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC) WiMAX 12.57 ±9.6 10303 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols) WiMAX 12.57 ±9.6 10303 AAA IEEE 802.16e WiMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 12.52 ±9.6 10304 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 10305 AAA IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6	10298	AAE		LTE-FDD	5.72	±9.6
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10302 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols) WiMAX 12.57 ±9.6 10303 AAA IEEE 802.16e WiMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 12.52 ±9.6 10304 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 10305 AAA IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6	10300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10303 AAA IEEE 802.16e WiMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC) WIMAX 12.52 ±9.6 10304 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 10305 AAA IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 10305 AAA IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols) WiMAX 15.24 ±9.6	10301	AAA			12.03	±9.6
10304 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 10305 AAA IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6	10302	AAA		WIMAX		±9.6
10305 AAA IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols) WiMAX 15.24 ±9.6						±9.6
10306 AAA IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols) WiMAX 14.67 ±9.6						
	10306	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)		14.67	±9.6

	Base	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
UID 10307	Rev AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	±9.6
10307	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WIMAX	14.46	±9.6
10309	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WIMAX	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, 15MHz, QPSK)	LTE-FDD	6.06	±9.6
10313	AAA			10.51	±9.6
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)	WLAN	1.71	±9.6
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10317	AAE	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10400	AAF	IEEE 802.11ac WiFI (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
10401	AAF	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10402	AAF	IEEE 802.11ac WIFI (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±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 WiFl 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	±9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8,19	±9.6
10422	AAD	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN WLAN	8.32	±9.6
10423	AAD	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)		8.47	±9.6
10424	AAD AAD	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN WLAN	8.40 8.41	±9.6 ±9.6
10425	AAD	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	±9.6
10420	AAD	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6
10427	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)		8.38	±9.6
10432	AAD	LTE-FDD (OFDMA, 15MHz, E-TM 3.1)	LTE-FDD	8.34	±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	ÁAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9.6
10450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
10456	AAD	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.6
10457	AAB	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10462	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
10463	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
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10465	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
10466	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)		8.57	±9.6
10467	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, OPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10468	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
10469	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
10470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
10471	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6

	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)		8.57	±9.6
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM, UL Subirame=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subirame=2,3,4,7,8,9)	LTE-TOD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	±9.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subirame=2,3,4,7,8,9)	LTE-TDD	7.71	±9.6
10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	±9.6
10484	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10485	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
10486	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	±9.6
10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	±9.6
10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.70 8.31	±9.6 ±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)		7.74	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subirame=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subirame=2,3,4,7,8,9)		8.41	
10492 10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, OL Subiraine=2,3,4,7,6,9)	LTE-TDD	8.55	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 04-QAM, 0L Subframe=2,3,4,7,8,9)		7.74	±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)		8.54	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subirame=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6
10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	±9.6
10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subirame=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)		8.36	±9.6 ±9.6
10508	AAG AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)		7.99	±9.6
10509		LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QF3K, 0L Subiranie=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)		8.51	±9.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	±9.6
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10518	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10519	AAD	IEEE 802.11a/n WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6
10520	AAD	IEEE 802.11a/h WiFI 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
10521	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
10522	AAD	IEEE 802.11a/h WiFI 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN WLAN	8.45	±9.6
10523 10524	AAD AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6 ±9.6
10524	AAD	IEEE 802.11a/n WIFI 5 GHz (OFDM, 54 Mops, 99pc outy cycle)	WLAN	8.36	±9.6
10525	AAD	IEEE 802.11ac WIFI (20 MHz, MCSU, 99pc duty cycle)	WLAN	8.42	±9.6
10527	AAD	IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)	WLAN	8,21	±9.6
10528	AAD	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6
10529	AAD	IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	±9.6
10531	AAD	IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.43	±9.6
10532	AAD	IEEE 802.11ac WIFI (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10533	AAD	IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6
10534	AAD	IEEE 802.11ac WiFI (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±9.6
10535	AAD	IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6
10536	AAD	IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6
10537	AAD	IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
10538	AAD	IEEE 802.11ac WiFI (40 MHz, MCS4, 99pc duty cycle)	WLAN WLAN	8.54	±9.6
10540	AAD	IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc duty cycle)		8.39	±9.6

				DED (4D)	$Unc^E k = 2$
UID	Rev AAD	Communication System Name IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	Group WLAN	PAR (dB) 8.46	<u>unc-x = z</u> ±9.6
10541	AAD	IEEE 802.11ac WiFI (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.65	±9.6
10542	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	±9.6
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	±9.6
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	±9.6
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	±9.6
10554	AAE	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
10555	AAE	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47 8.50	±9.6 ±9.6
10556	AAE	IEEE 802.11ac WiFI (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.52	±9.6
10558	AAE	IEEE 802.11ac WiFI (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.61	±9.6
10550	AAE	IEEE 802.11ac WiFI (160 MHz, MCS6, 99pc duty cycle)	WLAN	8,73	±9.6
10561	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.6
10562	AAE	IEEE 802.11ac WiFI (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
10563	AAE	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10584	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571 10572	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN WLAN	1.99	±9.6 ±9.6
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802.11b WiFI 2.4 GHz (DSSS, 5.5 Miops, 50pc duty cycle)	WLAN	1.98	±9.6
10575	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	±9.6
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	±9.6
10580	AAA	IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mops, 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 AAD	IEEE 802.11a/h WiFl 5 GHz (OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFl 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN WLAN	8.49 8.36	±9.6 ±9.6
10587	AAD	IEEE 802.11a/h WiFI 5 GHz (OFDM, 24 Mips, sope duty cycle)	WLAN	8.76	±9.6
10589	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 38 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	±9.6
10591	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
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	±9.6
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 AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN WLAN	8.88	±9.6
10601	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82 8.94	±9.6 ±9.6
10602	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	9.03	±9.6
10603	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 900c duty cycle)		9.03	±9.6
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	±9.6
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

1115	Date	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
UID 10609	Rev AAD	IEEE 802.11ac WIFI (20 MHz, MCS2, 90pc duty cycle)	Group WLAN	8.57	±9.6
10609	AAD	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
10610	AAD	IEEE 802.11ac WiFI (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAD	IEEE 802.11ac WiFI (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10612	AAD	IEEE 802.11ac WiFI (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
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 duty cycle)	WLAN	8.82	±9.6
10616	AAD	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
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)		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	±9.6
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	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
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	±9.6
10630	AAD	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
10631	AAD	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	
10632	AAD	IEEE 802.11ac WIFI (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10633	AAD	IEEE 802.11ac WiFI (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
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	±9.6
10637	AAE	IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	6.79	±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	AAE	IEEE 802.11ac WiFI (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10641	AAE	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
10642	AAE	IEEE 802.11ac WiFI (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAE	IEEE 802.11ac WiFI (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAE	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10659	AA8	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
10676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10685	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10686	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6

	Dave	On service states blame	Group		Unc ^E $\overline{k} = 2$
UID 10687	Rev AAC	Communication System Name IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	Group WLAN	PAR (dB) 8.45	±9.6
10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.29	±9.6
10689	AAC	IEEE 802.11ax (20 MHz, MCS6, 99pc duly cycle)	WLAN	8.55	±9.6
10689	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10691	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8,25	±9.6
10692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
10692	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8,25	±9.6
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	±9.6
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	±9.6
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	±9.6
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	1EEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
10711	AAC	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	AAC	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	±9.6
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
10720	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
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10724	AAC	EEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duly cycle)	WLAN	8.46	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6
10736	AAC	EEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±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
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
10743	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
10746	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
	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6

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	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6
10755	AAC	IEEE 802.11ax (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
10757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8,77	±9.6
10758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
10760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duly cycle)	WLAN	8.58	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6
10763	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10766	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
10767	AAG	5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 15kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	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, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10772	AAE AAF	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.23	±9.6 ±9.6
10773	AAF	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
10775		5G NR (CP-OFDM, 1 HB, 50 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	±9.6
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	AAC	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	±9.6
10781	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782	AAE	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10783	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10784	AAE	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	<u>±9.6</u>
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10788	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10789 10790	AAF AAE	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±9.6
10790	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.39 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 ±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 30kHz)	5G NR FR1 TDD	7.92	±9.6
10794	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
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
10799	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10801	AAF	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10802	AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10803	AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10805	AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
10809	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10810 10812	AAF AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10812	AAF	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10817	AAG	5G NR (CP-OFDM, 100% HB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.35 8.34	±9.6 ±9.6
10818	AAD	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 30kHz)	5G NR FR1 TDD	8.33	±9.6 ±9.6
10820	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	±9.6
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10822	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10823	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	±9.6
10824	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
10825	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10827	AAF	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
10828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.6

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UID 10829	Rev AAF	Communication System Name 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	Group 5G NR FR1 TDD	PAR (dB) 8.40	±9.6
10829		5G NR (CP-OFDM, 100% RB, 100MHz, QPSK, 50 KHz)	5G NR FRI TDD	7.63	±9.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
10832	AAE	5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 60kHz)	5G NR FR1 TDD	7.74	±9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
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 TOD	7.66	±9.6
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
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
10844	AAE	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10846	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10854	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10856	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6
10858	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10859	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10860	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10861	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	±9.6
10863		5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.41 8.37	±9.6 ±9.6
10864	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10866	AAF	5G NR (DFT-S-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10868	AAF	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
10869	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
10871	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
10873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10874	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
10880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
10881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10882	AAE		5G NR FR2 TDD	5.96	±9.6
10883	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
10884	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
10885	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10886	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10887 10888	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD 5G NR FR2 TDD	7.78	±9.6
10888	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 KHz)	5G NR FR2 TDD	8.35 8.02	±9.6 ±9.6
10890	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 KHz)	5G NR FR2 TDD	8.40	±9.6
10891	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	±9.6
10892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10897	AAE	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	±9.6
10898	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10900	AAC	5G NR (DFT s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10902	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10904	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10907	AAE	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
10908	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
10910	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10912	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10914	AAC	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918	AAE	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10919	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAB AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	5.82 5.84	±9.6 ±9.6
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FRI TDD	5.84	±9.6
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5,51	±9.6
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAD	5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAD	5G NR (DFT-s-OFDM, 50% RB, 10MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15MHz, QPSK, 15kHz) 5G NR (DFT-s-OFDM, 50% RB, 20MHz, QPSK, 15kHz)	5G NR FR1 FDD 5G NR FR1 FDD	5.90 5.82	±9.6
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 KHz)	5G NR FR1 FDD	5.82 5.89	±9.6 ±9.6
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.25	±9.6
10953	AAA AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15 8.23	±9.6
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD 5G NR FR1 FDD	8.23 8.42	±9.6 ±9.6
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30kHz)	5G NR FR1 FDD	8.14 8.14	±9.6
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
10960	AAE	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
10961	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz)	5G NR FR1 TDD	9.40	±9.6
10963	AAC	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
10964	AAE	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
10965	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	±9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	<u>±9.6</u>
10967 10968	AAC AAD	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	±9.6
10968	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	9.49 11.59	±9.6 ±9.6
10972	AAC	5G NR (DFT-S-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
10974	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	9.08	±9.6
10978	AAA	ULLA BDR	ULLA	1.16	±9.6
10979	AAA	ULLA HDR4	ULLA	8.58	±9.6
10980	AAA	ULLA HDR8	ULLA	10.32	±9.6
10981	AAA	ULLA HDRp4	ULLA	3.19	±9.6
10982	AAA	ULLA HDRp8	ULLA	3.43	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
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	±9.6
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	±9.6
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	±9.6
11014	AAB	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	ŴLAN	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	EEE 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

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

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kallbrierdienst Service sulsse d'étaionnage

С Servizio svizzero di taratura S 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 Accreditation No.: SCS 0108

Cllent	Element Morgan Hill, USA		Certificate No.	EX-7360_Mar24		
CAL	IBRATION CE	RTIFICATE				
Object		EX3DV4 - SN:7360	· · · · ·	V 4/2/2024 ATM		
Callbra	tion 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				
Callbra	tion date	March 11, 2024				
		iments the traceability to national stand certainties with confidence probability a				
All calib	prations have been conc	fucted in the closed laboratory facility: e	environment temperature (22 ± 3) ℃ and humidity < 70%.		
Calibrat	tion Equipment used (N	&TE critical for calibration)				

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
OCP DAK-3.5 (weighted)	SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Oct23)	Oct-24
OCP DAK-12	SN: 1016	05-Oct-23 (OCP-DAK12-1016_Oct23)	Oct-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	30-Mar-23 (No. 217-03809)	Mar-24
DAE4	SN: 660	23-Feb-24 (No. DAE4-660_Feb24)	Feb-25
Reference Probe EX3DV4	SN: 7349	03-Nov-23 (No. EX3-7349_Nov23)	Nov-24

Secondary Standards	ID	Check Date (In house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (In house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (In house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (In house check Oct-22)	In house check: Oct-24

	Name	Function	Signature
Callbrated by	Jeton Kastrati	Laboratory Technician _C	7-02
Approved by	Sven Kühn	Technical Manager	3.6
This calibration certificate shall r	not be reproduced except in full with	nout written approval of the la	Issued: March 12, 2024 boratory.

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





Schweizerlscher Kalibrierdienst Service sulsse 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

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	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ 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 $\theta = 0$ ($f \le 900$ 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 $f \le 800$ 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).

Parameters of Probe: EX3DV4 - SN:7360

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc $(k = 2)$
Norm $(\mu V/(V/m)^2)^A$	0.41	0.46	0.44	±10.1%
DCP (mV) ^B	104.2	102.2	104.6	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A	В	C	D	VR	Max	Max
			dB	dBõV		dB	mV	dev.	Unc ^E
									k = 2
0	CW	X	0.00	0.00	1.00	0.00	146.1	±2.3%	±4.7%
		Y	0.00	0.00	1.00		133.0		
		Z	0.00	0.00	1.00		143.2		
10352	Pulse Waveform (200Hz, 10%)	X	4.08	70.76	13.25	10.00	60.0	±2.7%	±9.6%
		Y	20.00	89.27	19.51		60.0		
		Z	6.14	75.48	15.05		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	4.27	73.86	13.35	6.99	80.0	±1.5%	±9.6%
		Y	20.00	91.85	19.74		80.0		
		Z	20.00	88.57	17.81		80.0	1	
10354	Pulse Waveform (200Hz, 40%)	X	15.76	87.26	16.12	3.98	95.0	±1.1%	±9.6%
		Y	20.00	95.45	20.25		95.0		
		Ź	20.00	90.59	17.31		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	20.00	92.95	17.22	2.22	120.0	±1.2%	±9.6%
		Y	20.00	103.64	22.96		120.0		
		Z	20.00	94.66	18.02		120.0		
10387	QPSK Waveform, 1 MHz	X	1.51	65.64	14.38	1.00	150.0	±2.1%	±9.6%
		Y	1.78	67.33	15.67		150.0		
		Z	1.62	66.30	14.87		150.0		
10388	QPSK Waveform, 10 MHz	X	1.99	66.69	15.05	0.00	150.0	±1.0%	±9.6%
		Y	2.37	69.08	16.34		150.0		
		Z	2.14	67.72	15.56		150.0		
10396	64-QAM Waveform, 100 kHz	X	2.61	69.62	18.15	3.01	150.0	±0.7%	±9.6%
		Y	2.71	70.02	18.63		150.0		
		Z	3.00	71.99	19.33		150.0		
10399	64-QAM Waveform, 40 MHz	X	3.35	66.60	15.42	0.00	150.0	±0.7%	±9.6%
		Y	3.48	67.11	15.81		150.0		
		Z	3.46	67.15	15.72		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.68	65.48	15.34	0.00	150.0	±1.8%	±9.6%
		Y	4.80	65.57	15.49		150.0		
		Z	4.81	65.80	15.53		150.0		

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%.

- ^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 5). ^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.

Parameters of Probe: EX3DV4 - SN:7360

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 msV ⁻²	T2 msV ⁻¹	T3 ms	T4 ∨ ⁻²	T5 V ⁻¹	T6
X	36.4	264.04	33.75	6.74	0.44	4.98	1.96	0.00	1.00
У	43.3	316.29	34.21	13.42	0.00	5.05	1.02	0.16	1.00
z	40.2	291.87	33.84	7.63	0.38	5.00	1.97	0.03	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	32.8°
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.

Parameters of Probe: EX3DV4 - SN:7360

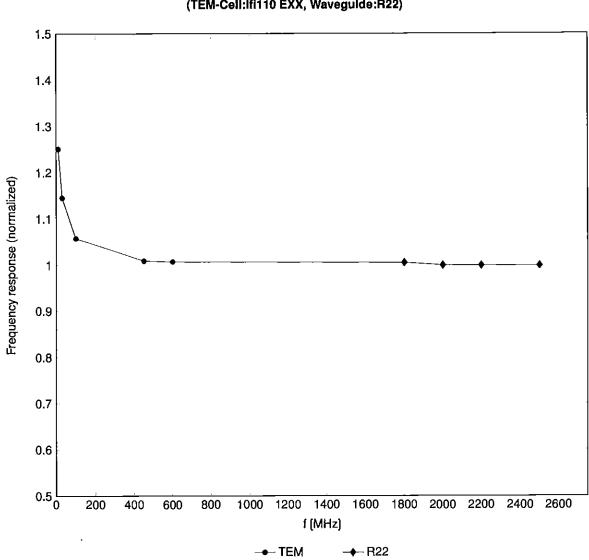
f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
750	41.9	0.89	8.48	8.58	10.65	0.35	1.38	±11.0%
835	41.5	0.90	8.99	8.94	10.44	0.40	1.27	±11.0%
1750	40.1	1.37	7.89	7.70	8.86	0.28	1.27	±11.0%
1900	40.0	1.40	7.31	7.10	8.16	0.29	1.27	±11.0%
2300	39.5	1.67	7.27	7.02	8.07	0.31	1.27	±11.0%
2450	39.2	1.80	7.22	7.00	8.06	0.31	1.27	±11.0%
2600	39.0	1.96	7.02	6.77	7.79	0.30	1.27	±11.0%

Calibration Parameter Determined in Head Tissue Simulating Media

^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 assessed at 13 MHz is 9–19 MHz.

assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to \pm 110 MHz. ^F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than \pm 5% from the target values (typically better than \pm 3%) and are valid for TSL with deviations of up to \pm 10% if SAR correction is applied.

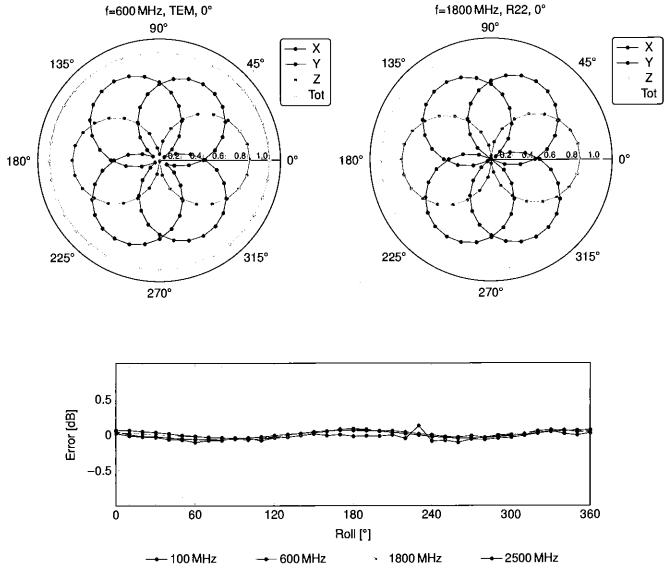
^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the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



Frequency Response of E-Field

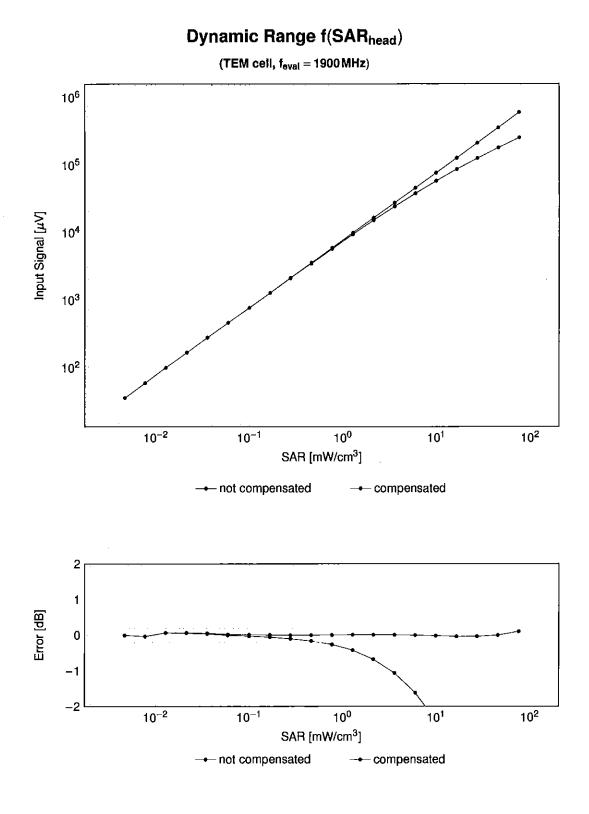
(TEM-Cell:Ifi110 EXX, Wavegulde:R22)

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



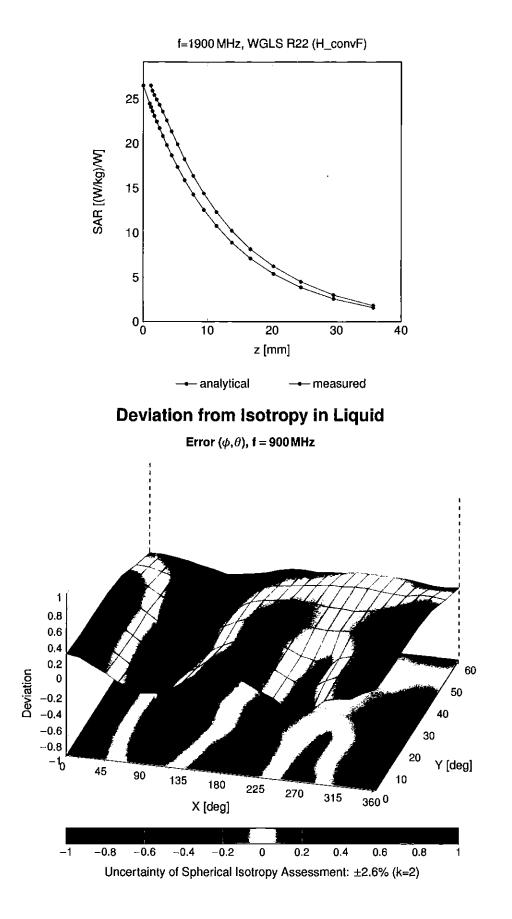
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

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



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





Appendix: Modulation Calibration Parameters

	David	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
	Rev	Communication System Name	CW	0.00	±4.7
10010	040	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
	CAB		WCDMA	2.91	<u>+9.6</u>
10011	CAC			1.87	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	9,46	±9.6
10013	CAB	TEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)			
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
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	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetoolh	5.30	±9.6
10031	CAA	IEEE 802.15.1 Bluetoolh (GFSK, DH3)	Bluetooth	1.87	±9.6
10032	CAA	IEEE 802.15.1 Bluetoolh (GFSK, DH5)	Bluetooth	1.16	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
10033	CAB	IS-54 / IS-136 FDD (TDMA/FDM, Pl/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
10042	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
10044	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10049	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
10058	CAB	EEE 802.11b WiFI 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
10059		IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
	CAB		WLAN	3.60	±9.6
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	8.68	<u>+9.6</u>
10062	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)			-
10063	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAE	IEEE 802.11a/n WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAE	IEEE 802.11a/h WiFl 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB		WLAN	9.62	±9.6
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10098	CAC	UMTS-FDD (HSUPA, Sublest 2)	WCDMA	3.98	±9.6
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10102	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10108			LTE-FDD	6.43	±9.6
10109	CAH CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)			±9.6
1 10110		LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)		5.75	±3.0
10110	CAH		LTE-FDD	6.44	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc [±] $k = 2$
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
10113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)		6.62	±9.6
10114	CAE	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAE	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)		8.46 8.15	±9.6 ±9.6
10116	CAE	IEEE 802,11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN WLAN	8.15	±9.6
10117	CAE	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)		8.59	±9.6
10118	CAE	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.13	±9.6
10119	CAE	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)		6.49	±9.6
10140	CAF CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)		5.73	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
10144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10140	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TOD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	<u>+9.6</u>
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72 6.52	±9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16·QAM)	LTE-FDD LTE-FDD	5.73	<u>+9.6</u> +9.6
10177		LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)		6.52	
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-FDD	6.50	±9.6 ±9.6
10179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10180	CAH CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6
10181	CAP	LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-FDD	6.52	<u>+9.6</u>
10182	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10183	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16 QAM)	LTE-FDD	6.51	±9.6
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
10194	CAE	IEEE 802,11n (HT Greentield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
10195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
10197	CAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
10198	CAE	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
10219	CAE	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6
10220	CAE	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	<u>±9.6</u>
10221	CAE	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
10222	CAE	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
10223	CAE	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.46	±9.6
10224	CAE	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6

	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
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
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	<u>+</u> 9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	
10231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	<u>±9.6</u>
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TOD	10.25	
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-TDD	9.21	±9.6
10235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6
10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)		9.21	±9.6 ±9.6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TOD	9.82	±9.6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TOD	9.66	±9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)		10.06	±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	9.30	<u>+9.6</u>
10246	CAE CAH	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.91	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 10-QAM)	LTE-TDD	10.09	±9.6
10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)		9.81	±9.6
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6
10257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64 QAM)	LTE-TDD	10.08	±9.6
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	_ <u>±9.6</u>
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6
10265	CAH		LTE-TDD	9.92	±9.6
10266	CAH		LTE-TDD	10.07	±9.6
10267	CAH		LTE-TDD	9.30	±9.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TOD	10.06	±9.6
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)		10.13	±9.6
10270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD WCDMA	9.58	±9.6 ±9.6
10274	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rei8.10)		3.96	±9.6
10275 10277	CAC	PHS (QPSK)	PHS	11.81	±9.6
10277	CAA	PHS (QPSK) PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
10278		PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
10279	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
10290	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10291	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
10292	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6
10298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
10299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10301	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WIMAX	12.03	±9.6
10302	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.57	±9.6
10303	AAA	IEEE 802.169 WIMAX (31:15, 5 ms, 10 MHz, 64 QAM, PUSC)	WIMAX	12.52	±9.6
10304	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	11.86	±9.6
10305	AAA	IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WIMAX	15.24	±9.6
10306	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WIMAX	14.67	±9.6

	Boy	Communication Suntan Nama	Group		Unc ^E $k = 2$
UID 10307	Rev AAA	Communication System Name IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	Group WiMAX	PAR (dB)	$\frac{0nc^{-} \kappa = 2}{\pm 9.6}$
10307	AAA			14.49	±9.6
10308	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC) IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WIMAX	14.46	±9.6
10309	AAA	IEEE 802.169 WIMAX (29.18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)		14.58	±9.6
10310	AAA	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6
10313	AAA		iden	10.51	±9.6
10313	AAA	IDEN 1.6	IDEN	13.48	±9.6
10314	AAB	IEEE 802.11b WiFI 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10315	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10318	AAB	IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10317	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	6.99	
10353	AAA	Pulse Wavelorm (200Hz, 20%) Pulse Wavelorm (200Hz, 40%)	Generic	3.98	<u>+9.6</u> ±9.6
10354	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6
10330	AAA	QPSK Waveform, 1 MHz	Generic	5.10	<u>±9.6</u>
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.10	±9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
10398	AAA	64-QAM Waveform, 40 MHz		-	
10399	AAA AAF	IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)	Generic WLAN	6.27	±9.6
10400	AAF	IEEE 802.11ac WIFI (20 MHz, 64-QAM, 99pc duty cycle)		8.37	±9.6
10401	AAF	IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle)		8.60	±9.6
10402	AAP	CDMA2000 (1xEV-DO, Rev. 0)	WLAN CDMA2000	8.53 3.76	±9.6 ±9.6
				-	
10404	AAB AAB	CDMA2000 (1xEV-DO, Rev. A) CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000 CDMA2000	3.77 5.22	±9.6 ±9.6
10400	AAB			1	
10410		LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) WLAN CCDF, 64-QAM, 40 MHz	LTE-TDD	7.82	±9.6
10414			Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10418	AAA AAD	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN WLAN	8.23	±9.6
10417	AAA		WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.14	±9.6
10419	AAA			8.19	±9.6
10422	AAD	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN WLAN	8.32 8.47	±9.6
10423	AAD	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.47	<u>+9.6</u> +9.6
10424	AAD	IEEE 902 11n (UT Groonfield, 15 Mbno, DDGK)	WLAN		
10425	AAD	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.41 8.45	±9.6
10420	AAD	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.45	±9.6 ±9.6
10427	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
10430	AAE	LTE-FDD (OFDMA, 10MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
10431	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10432	AAD		LTE-FDD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 84 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	7.82	±9.6
10433	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10447	AAE	LTE-FDD (OFDMA, 10MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.58	±9.6
10440	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10450	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.46	±9.6
10453	AAE	Validation (Square, 10ms, 1ms)	Test	10.00	±9.6
10455	AAD	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.0 ±9.6
10457	AAB	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6
10460	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)		8.30	±9.6
10463	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
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subirame=2,3,4,7,8,9)		7.82	±9.6
10465	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
10466	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10467	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10468	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	±9.6
10469	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.56	±9.6
10470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10471	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	±9.6
				0.02	

19472 AAC LTE-TOD CE, FOM, A. THB, 19442, G-OAM, UL, Subfarma-2, 3, 47, 89, LTE-TOD 7.82 4.94 19473 AAF LTE-TOD CE, SFOM, A. THB, 19442, CFOK, UL, Subfarma-2, 3, 47, 89, LTE-TOD 5.87 1.98 19474 AAF LTE-TOD CE, SFOM, A. THB, 19444, CAAM, UL, Subfarma-2, 3, 47, 89, LTE-TOD 5.87 1.98 19475 AAG LTE-TOD CE, SFOM, A. THB, 20444, CAAM, UL, Subfarma-2, 3, 47, 89, LTE-TOD 5.87 1.98 19476 AAC LTE-TOD SC, SFOM, A. SK, 89, R. J. 44447, CPAK, UL, Subfarma-2, 3, 47, 89, LTE-TOD 5.87 1.98 19476 AAC LTE-TOD (SC, FOMA, SK, 89, RB, J. 44447, CPAK, UL, Subfarma-2, 3, 47, 89, LTE-TOD 5.97 4.96 19486 AAD LTE-TOD (SC, FOMA, SK, 88, SJMHE, 16-CAM, UL, Subfarma-2, 3, 47, 89, LTE-TOD 5.97 4.96 19486 AAD LTE-TOD (SC, FOMA, SK, 88, SJMHE, 16-CAM, UL, Subfarma-2, 3, 47, 89, LTE-TOD 5.97 4.96 19486 AAG LTE-TOD (SC, FOMA, SK, 88, SJMHE, 16-CAM, LL, Subfarma-2, 3, 47, 89, LTE-TOD 5.97 4.96			A substant of the second se	0		
19472 AF [EF:T0D 7.82 49.8 19474 AF [EF:T0D 67.94 AF [EF:T0D 8.32 19.8 19475 AF [EF:T0D 8.52 19.8 19.8 19475 AG [EF:T0D 8.52 19.8 19.8 19477 AG [EF:T0D 8.52 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.7 19.6 19.7 19.6 19.7 19.6 19.7 19.6 19.7 19.6 19.7 19.6 19.7 19.6 19.7 19.6 19.6 19.7 19.6 19.7 19.6 19.7 19.6 19.6 19.7 19.6 19.6 19.6 19.6 19.7 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 <td< td=""><td>UID</td><td>Rev</td><td>Communication System Name</td><td></td><td>PAR (dB)</td><td>Unc^E $k = 2$</td></td<>	UID	Rev	Communication System Name		PAR (dB)	Unc ^E $k = 2$
19474 AF LTE TDD (GC FDMA, 11RB, 15MH, 216 CAM, UL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 11RB, 20MH, 24 CAM, UL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 11RB, 20MH, 24 CAM, UL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 11RB, 20MH, 24 CAM, UL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 11RB, 20MH, 24 CAM, UL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 50%, R1, 1,4MHz, CPKK, LL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 50%, R1, 1,4MHz, 10CAM, UL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 50%, R1, 1,4MHz, 10CAM, UL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 50%, R1, 1,4MHz, 10CAM, UL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 50%, R1, 1,4MHz, 10CAM, UL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 50%, R1, 1,4MHz, 10CAM, UL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 50%, R1, 3,MHz, 16CAM, UL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 50%, R1, 3,MHz, 16CAM, UL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 50%, R1, 3,MHz, 16CAM, UL, Subfarme-2,3,47,8,9) LTE TDD (SC FDMA, 50%, R1, 3,MHz, 16CAM, UL, Subfarme-2,3,47,8,0) LTE TDD (SC FDMA, 50%, R1, 3,MHz, 16CAM, UL, Subfarme-2,3,47,8,0) LTE TDD (SC FDMA, 50%, R1, 3,MHz, 16CAM, UL, Subfarme-2,3,47,8,0) LTE TDD (SC FDMA, 50%, R1, 3,MHz, 16CAM, UL, Subfarme-2,3,47,8,0) LTE TDD (SC FDMA, 50%, R1, 3,MHz, 16CAM, UL, Subfarme-2,3,47,8,0) LTE TDD (SC FDMA, 50%, R1, 3,MHz, 16CAM, UL, Subfarme-2,3,47,8,0) LTE TDD (SC FDMA, 50%, R1, 3,MHz, 16CAM, UL, Subfarme-2,3,47,8,0) LTE TDD (SC FDMA, 50%, R1, 3,MHz, 16CAM, UL, Subfarme-2,3,47,8,0) LTE TDD (SC FDMA, 50%, R1, 3,MHz, 16CAM, UL, Subfarme-2,3,47,8,0) LTE TDD (SC FDMA, 50%, R1, 3,MHz, 16CAM, UL, Subfarme-2,3,47,8,0) L		+		_	-	
19475 AAF LTE-TOD (GC-FDMA, 11-RB, 2014); LD Subtrame-2,3,47,8,9) LTE-TOD 8.32 1-9.8 19478 AG LTE-TOD (GC-FDMA, 11-RB, 2014); LD Subtrame-2,3,47,8,9) LTE-TOD 8.32 1-9.8 19478 AG LTE-TOD (GC-FDMA, 11-RB, 2014); LD Subtrame-2,3,47,8,9) LTE-TOD 8.43 19480 AG LTE-TOD (GC-FDMA, 50% RB, 14-MHz, 16-CAM, LL Subtrame-2,3,47,8,9) LTE-TOD 8.45 19481 AG LTE-TOD (GC-FDMA, 50% RB, 14-MHz, 16-CAM, LL Subtrame-2,3,47,8,9) LTE-TOD 8.45 19484 AD LTE-TOD (GC-FDMA, 50% RB, 3MHz, 64-CAM, LL Subtrame-2,3,47,8,9) LTE-TOD 8.45 19484 AD LTE-TOD (GC-FDMA, 50% RB, 3MHz, 64-CAM, LL Subtrame-2,3,47,8,9) LTE-TOD 8.45 19484 AD LTE-TOD (GC-FDMA, 50% RB, 5MHz, 16-CAM, LL Subtrame-2,3,47,8,9) LTE-TOD 8.45 19445 AG LTE-TOD (GC-FDMA, 50% RB, 5MHz, 16-CAM, LL Subtrame-2,3,47,8,9) LTE-TOD 8.45 19446 AG LTE-TOD (GC-FDMA, 50% RB, 5MHz, 16-CAM, LL Subtrame-2,3,47,8,9) LTE-TOD 8.45 19447 AG LTE-TOD (GC-FDMA, 50% RB, 5MHz, 16-CAM, LL Subtrame-2						
10477 AAG LTE-TDD (3C-FDMA, 11-R8 20HHz, 16-CAM, UL Subframe-23,47,8,9) LTE-TDD 8.57 49.6 10478 AAG LTE-TDD (3C-FDMA, 50% HB, 1,4MHz, QPSK, UL Subframe-23,47,8,9) LTE-TDD 8.74 49.6 10489 AAC LTE-TDD (3C-FDMA, 50% HB, 1,4MHz, QPSK, UL Subframe-23,47,8,9) LTE-TDD 8.16 49.6 10481 AAC LTE-TDD (SC-FDMA, 50% HB, 14MHz, 4C-AM, UL Subframe-23,47,8,9) LTE-TDD 8.46 49.8 10481 AAD LTE-TDD (SC-FDMA, 50% HB, 3MHz, 16-CAM, UL Subframe-23,47,8,9) LTE-TDD 8.47 49.6 10484 AAD LTE-TDD (SC-FDMA, 50% HB, 3MHz, 16-CAM, UL Subframe-23,47,8,9) LTE-TDD 8.47 49.6 10484 AAG LTE-TDD (SC-FDMA, 50% HB, 3MHz, 16-CAM, UL Subframe-23,47,8,9) LTE-TDD 8.48 49.6 14.64 14.64 14.64 LTE-TDD (SC-FDMA, 50% HB, 3MHz, 16-CAM, UL Subframe-23,47,8,9) LTE-TDD 8.69 19.66 10484 AAG LTE-TDD (SC-FDMA, 50% HB, 15MHz, 16-CAM, UL Subframe-23,47,8,9) LTE-TDD 6.04 19.66 14.64 14.64 14.64 14.64 14.64 14.64						
19479 AAG LTE-TDD (SG-FDMA, STR B, 14MF, GPGX, UL Subtame-2,3,4,7,8,9) LTE-TDD 8,57 49.8 19489 AAG LTE-TDD (SG-FDMA, SGN B, 14MF, GPGX, UL Subtame-2,3,4,7,8,9) LTE-TDD 8,44 19481 AAG LTE-TDD (SG-FDMA, SGN B, 14MF, GPGX, UL Subtame-2,3,4,7,8,9) LTE-TDD 8,45 19482 AAD LTE-TDD (SG-FDMA, SGN B, 34MF, GPGX, UL Subtame-2,3,4,7,8,9) LTE-TDD 8,45 19483 AAD LTE-TDD (SG-FDMA, SGN B, 34MF, GPGX, UL Subtame-2,3,4,7,8,9) LTE-TDD 8,47 19484 AAD LTE-TDD (SG-FDMA, SGN B, 34MF, GPGX, UL Subtame-2,3,4,7,8,9) LTE-TDD 8,56 19484 AAD LTE-TDD (SG-FDMA, SGN B, 34MF, GPGX, UL Subtame-2,3,4,7,8,9) LTE-TDD 8,56 19486 AAD LTE-TDD (SG-FDMA, SGN B, 34MF, GPGX, UL Subtame-2,3,4,7,8,9) LTE-TDD 8,51 19486 AAD LTE-TDD (SG-FDMA, SGN B, 34MF, GPGX, UL Subtame-2,3,4,7,8,9) LTE-TDD 8,54 19486 AAD LTE-TDD (SG-FDMA, SGN B, 34MF, GPGX, UL Subtame-2,3,4,7,8,9) LTE-TDD 8,54 19486 AAD LTE-TDD (SG-FDMA, SGN B, 34MF, GPGX, UL Subtame-2,3,4,7,8,9) <td< td=""><td></td><td>-</td><td></td><td></td><td>1</td><td></td></td<>		-			1	
10479 AAC LTE-TDD ICE-TDD ICE-						
10460 AAC LTF-TDD (SC-FDMA, SOVR B1, 14MHz, 16-CAM, UL Subframe-23,47,89) LTF-TDD 8,45 198 10481 AAC LTF-TDD (SC-FDMA, SOVR B1, 14MHz, 16-CAM, UL Subframe-23,47,89) LTF-TDD 8,45 10482 AAD LTF-TDD (SC-FDMA, SOVR B1, 34MHz, 16-CAM, UL Subframe-23,47,89) LTF-TDD 8,47 10484 AAD LTF-TDD (SC-FDMA, SOVR B3, 34MHz, 46-CAM, UL Subframe-23,47,89) LTF-TDD 8,47 10485 AAD LTF-TDD (SC-FDMA, SOVR B5, 34MHz, 46-CAM, UL Subframe-23,47,89) LTF-TDD 8,58 10486 AAC LTF-TDD (SC-FDMA, SOVR B5, 34MHz, 46-CAM, UL Subframe-23,47,89) LTF-TDD 8,50 10487 AAC LTF-TDD (SC-FDMA, SOVR B5, 10MHz, 40-CAM, UL Subframe-23,47,89) LTF-TDD 8,51 10486 AAC LTF-TDD (SC-FDMA, SOVR B5, 10MHz, 40-CAM, UL Subframe-23,47,89) LTF-TDD 8,51 10481 AAC LTF-TDD (SC-FDMA, SOVR B5, 10MHz, 40-CAM, UL Subframe-23,47,89) LTF-TDD 8,51 10482 AAC LTF-TDD (SC-FDMA, SOVR B5, 10MHz, 40-CAM, UL Subframe-23,47,89) LTF-TDD 8,51 10484 AAC LTF-TDD (SC-FDMA, SOVR B5, 10MHz, 16-CAM, UL Sub					-	
10441 AAC LTE-TDD 66:CP-MA, 50%; RB, 14.WHz, 64-GAK, UL, Subfaram-23, 47, 89 LTE-TDD 7,71 9.8 10482 AAD LTE-TDD 66:CP-MA, 60%; RB, 3MHz, 16; GAK, UL, Subfaram-23, 47, 89 LTE-TDD 8,74 9.8 10484 AAD LTE-TDD 66:CP-MA, 60%; RB, 3MHz, 16; GAK, UL, Subfaram-23, 47, 89 LTE-TDD 8,47 9.9 10485 AAG LTE-TDD 66:CP-MA, 60%; RB, 5MHz, GP-SK, UL, Subfaram-23, 47, 89 LTE-TDD 8,39 9.6 10486 AAG LTE-TDD 66:CP-MA, 60%; RB, 5MHz, 6P-SK, UL, Subfaram-23, 47, 89 LTE-TDD 8,49 9.6 10487 AAG LTE-TDD 66:CP-MA, 65%; RB, 104Hz, 16-OAM, UL, Subfaram-23, 47, 89 LTE-TDD 7.7 19.6 10488 AAG LTE-TDD 66:CP-MA, 55%; RB, 104Hz, 16-OAM, UL, Subfaram-23, 47, 8.9 LTE-TDD 8.31 19.6 10484 AAG LTE-TDD 66:CP-MA, 55%; RB, 104Hz, 16-OAM, UL, Subfaram-23, 47, 8.9 LTE-TDD 8.31 19.6 10486 AAG LTE-TDD 66:CP-MA, 55%; RB, 104Hz, 16-OAM, UL, Subfaram-23, 47, 8.9 LTE-TDD 8.5<					4	
Totage AAD ITE-TDD (SC-FDMA, 599K RB, 3MHz, 6PGM, UL Subframe-23,47,8,9) ITE-TDD R-17 1948 Totage AAD ITE-TDD (SC-FDMA, 599K RB, 3MHz, 44-GAM, UL Subframe-23,47,8,9) ITE-TDD R-47 1948 Totage AAD ITE-TDD (SC-FDMA, 599K RB, 5MHz, 16-GAM, UL Subframe-23,47,8,9) ITE-TDD R-50 1948 Totage AAD ITE-TDD (SC-FDMA, 599K RB, 5MHz, 16-GAM, UL Subframe-23,47,8,9) ITE-TDD R-50 1948 Totage AAD ITE-TDD (SC-FDMA, 599K RB, 5MHz, 16-GAM, UL Subframe-23,47,8,9) ITE-TDD R-51 1948 Totage AAD ITE-TDD (SC-FDMA, 599K RB, 10MHz, 0CAM, UL Subframe-23,47,8,9) ITE-TDD R-31 1948 Totage AAD ITE-TDD (SC-FDMA, 599K RB, 10MHz, 0CAM, UL Subframe-23,47,8,9) ITE-TDD R-31 1948 Totage AAD ITE-TDD (SC-FDMA, 599K RB, 10MHz, 0CAM, UL Subframe-23,47,8,9) ITE-TDD R-31 1948 Totage AAD ITE-TDD (SC-FDMA, 599K RB, 10MHz, 0CAM, UL Subframe-23,47,8,9) ITE-TDD R-31 1948 Totage AAD ITE-TDD (SC-FDMA, 599K RB, 10MHz, 0CAM, UL Subframe-23,47,						
1048 AAD LTE-TD0 (GC-FDMA, 50% BB, 3MHz, 16-AMA, UL Subframe-23, 47, 8.9) LTE-TD0 8.49 1048 AAG LTE-TD0 (GC-FDMA, 50% BB, 5MHz, 20PSK, UL Subframe-23, 47, 8.9) LTE-TD0 7.69 4.96 1048 AAG LTE-TD0 (GC-FDMA, 50% BB, 5MHz, 10-AMA, UL Subframe-23, 47, 8.9) LTE-TD0 8.69 4.96 1048 AAG LTE-TD0 (GC-FDMA, 50% BB, 5MHz, 10-AMA, UL Subframe-23, 47, 8.9) LTE-TD0 8.60 4.96 1048 AAG LTE-TD0 (GC-FDMA, 50% BB, 10-MHz, 16-GAM, UL Subframe-23, 47, 8.9) LTE-TD0 8.61 4.96 10480 AAG LTE-TD0 (GC-FDMA, 50% BB, 10-MHz, 16-GAM, UL Subframe-23, 47, 8.9) LTE-TD0 8.61 4.96 10481 AAF LTE-TD0 (GC-FDMA, 50% BB, 10-MHz, 10-GAM, UL Subframe-23, 47, 8.9) LTE-TD0 8.61 4.96 10482 AAF LTE-TD0 (GC-FDMA, 50% BB, 10-MHz, 10-GAM, UL Subframe-23, 47, 8.9) LTE-TD0 8.61 4.96 10482 AAF LTE-TD0 (GC-FDMA, 50% BB, 20-MHz, 10-SMA, UL Subframe-23, 47, 8.9) LTE-TD0 8.61 4.96 10484 AAG LTE-TD0 (GC-FDMA, 50% BB, 20-MHz, 10-SMA, UL Subframe-23, 47, 8.9)						
1046 AAD [1E*TD0] (5C+FDAX, 50% BB, 3MHz, 20+XM, UE Subframe-23,47,8,9) [1E*TD0] 7.69 4.96 10465 AAG [1E*TD0] (5C+FDAX, 50% BB, 5MHz, 10+AM, UE Subframe-23,47,8,9) [1E*TD0] 8.89 1.96 10467 AAG [1E*TD0] (5C+FDAX, 50% BB, 5MHz, 10+AM, UE Subframe-23,47,8,9) [1E*TD0] 8.69 1.96 10468 AAG [1E*TD0] (5C+FDAX, 50% BB, 5MHz, 16+AM, UE Subframe-23,47,8,9) [1E*TD0] 7.70 1.96 10468 AAG [1E*TD0] (5C+FDAX, 50% BB, 10MHz, 10+AM, UE Subframe-23,47,8,9) [1E*TD0] 7.74 1.96 10469 AAG [1E*TD0] (5C+FDAX, 50% BB, 10MHz, 00+AM, UE Subframe-23,47,8,0) [1E*TD0] 7.74 1.96 10461 AAF [1E*TD0] (5C+FDAX, 50% BB, 15MHz, 10+AM, UE Subframe-23,47,8,0) [1E*TD0] 7.74 1.96 10462 AAF [1E*TD0] (5C+FDAX, 50% BB, 20MHz, 00+SK, UE Subframe-23,47,8,0) [1E*TD0] 7.74 2.96 10464 AAG [1E*TD0] (5C+FDAX, 50% BB, 20MHz, 00+SK, UE Subframe-23,47,8,0) [1E*TD0] 7.74 2.96 10464 AAG [1E*TD0] (5C+FDAX, 100% BB, MHz, 10+AM, UE Subframe-23,47,					-	
10465 AAG LTE-TDD (SC-FDAK, 50% RB, 5MHz, 10PAK, LU, Subframe-23, 47, 8.9) LTE-TDD 8.7.9 10466 AAG LTE-TDD (SC-FDAK, 50% RB, 5MHz, 16-CAM, LU, Subframe-23, 47, 8.9) LTE-TDD 8.6.9 10486 AAG LTE-TDD (SC-FDAK, 50% RB, 10MHz, 16-CAM, LU, Subframe-23, 47, 8.9) LTE-TDD 7.70 4.9.6 10488 AAG LTE-TDD (SC-FDAK, 50% RB, 10MHz, 16-CAM, UL, Subframe-23, 47, 8.9) LTE-TDD 8.24 2.9.6 10491 AAT LTE-TDD (SC-FDAK, 50% RB, 10MHz, 16-CAM, UL, Subframe-23, 47, 8.9) LTE-TDD 8.44 2.9.6 10492 AAF LTE-TDD (SC-FDAK, 50% RB, 10MHz, 16-CAM, UL, Subframe-23, 47, 8.9) LTE-TDD 8.41 2.9.6 10494 AAF LTE-TDD (SC-FDAK, 50% RB, 10MHz, 16-CAM, UL, Subframe-23, 47, 8.9) LTE-TDD 8.51 4.9.6 10494 AAG LTE-TDD (SC-FDAK, 50% RB, 10MHz, 16-CAM, UL, Subframe-23, 47, 8.9) LTE-TDD 8.54 2.9.6 10494 AAG LTE-TDD (SC-FDAK, 50% RB, 50MHz, 0CAM, UL, Subframe-23, 47, 8.9) LTE-TDD 8.54 4.9.6 10494 AAG LTE-TDD (SC-FDAK, 100% RB, 14MHz, 16-CAM, UL, Subframe-23, 47, 8.9)						
1046 AG ITE-TD0 (SC-FDMA, 50% RB, SME, 24 CAM, UL Subtrame-23, 47, 8,9) ITE-TD0 8.38 1.96 10467 AG ITE-TD0 (SC-FDMA, 50% RB, 50 MHz, 24 CAM, UL Subtrame-23, 47, 8,9) ITE-TD0 8.60 3.96 10488 AG ITE-TD0 (SC-FDMA, 50% RB, 10 MHz, 0FSM, UL Subtrame-23, 47, 8,9) ITE-TD0 8.54 3.96 10481 AG ITE-TD0 (SC-FDMA, 50% RB, 10 MHz, 0FSM, UL Subtrame-23, 47, 8,9) ITE-TD0 8.54 3.96 10481 AG ITE-TD0 (SC-FDMA, 50% RB, 15 MHz, 16 CAM, UL Subtrame-23, 47, 8,9) ITE-TD0 8.54 3.96 10482 AG ITE-TD0 (SC-FDMA, 50% RB, 15 MHz, 16 CAM, UL Subtrame-23, 47, 8,9) ITE-TD0 8.54 3.96 10482 AG ITE-TD0 (SC-FDMA, 50% RB, 20 MHz, 16 CAM, UL Subtrame-23, 47, 8,9) ITE-TD0 8.54 3.96 10483 AG ITE-TD0 (SC-FDMA, 50% RB, 20 MHz, 16 CAM, UL Subtrame-23, 47, 8,9) ITE-TD0 8.64 4.96 10484 AG ITE-TD0 (SC-FDMA, 10% RB, 14 MHz, 16 CAM, UL Subtrame-23, 47, 8,9) ITE-TD0 8.64 4.96 10484 AG ITE-TD0 (SC-FDMA, 100% RB, 14 MHz, 16 CAM, UL Subtram						
Totage AAG UTE-TDD (SC-FDMA, 50% RB, 50Hz, 60F-A0M, UL Subframe-23,47,8,9) UTE-TDD (SC-FDMA, 50% RB, 10Hz, 60FA), UL Subframe-23,47,8,9) UTE-TDD (SC-FDMA, 50% RB, 15Hz, 60FA), UL Subframe-23,47,8,9) UTE-TDD (SC-FDMA, 50% RB, 15Hz, 60FA), UL Subframe-23,47,8,9) UTE-TDD (SC-FDMA, 50% RB, 15Hz, 60FA), UL Subframe-23,47,8,9) UTE-TDD (SC-FDMA, 50% RB, 70Hz, 10FA), 10FA 296 10461 AAF LTE-TDD (SC-FDMA, 50% RB, 70Hz, 10FA), 10Subframe-23,47,8,9) UTE-TDD (SC-FDMA, 50% RB, 70Hz, 10FA), 10Subframe-23,47,8,9) UTE-TDD (SC-FDMA, 50% RB, 70Hz, 10FA), 10SUBframe-23,47,8,9) UTE-TDD (SC-FDMA, 50% RB, 70Hz, 10SW RB, 70HZ, 1	L					
10488 AAG LIFE-TDD (SC-FDMA, 50% RB, 104Hz, 16-3AM, LU, Subframe-23, 47, 78, 9) LIFE-TDD 8.31 4.96 10499 AAG LIFE-TDD (SC-FDMA, 50% RB, 104Hz, 16-3AM, UL, Subframe-23, 47, 78, 9) LIFE-TDD 8.34 4.96 10491 AAF LIFE-TDD (SC-FDMA, 50% RB, 15MHz, 16-3AM, UL, Subframe-23, 47, 78, 9) LIFE-TDD 8.44 4.96 10492 AAF LIFE-TDD (SC-FDMA, 50% RB, 15MHz, 16-3AM, UL, Subframe-23, 47, 78, 9) LIFE-TDD 8.54 4.96 10482 AAF LIFE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-3AM, UL, Subframe-23, 47, 8, 9) LIFE-TDD 8.54 4.86 10484 AAG LIFE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-3AM, UL, Subframe-23, 47, 8, 9) LIFE-TDD 8.54 4.88 10489 AAC LIFE-TDD (SC-FDMA, 100% RB, 1-4MHz, 16-3AM, UL, Subframe-23, 47, 8, 9) LIFE-TDD 7.67 4.98 10489 AAC LIFE-TDD (SC-FDMA, 100% RB, 1-4MHz, 16-3AM, UL, Subframe-23, 47, 8, 9) LIFE-TDD 7.67 4.98 10489 AAC LIFE-TDD (SC-FDMA, 100% RB, 1-4MHz, 6PSK, UL, Subframe-23, 47, 8, 9) LIFE-TDD 7.64 4.98 10502 AAD <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
10489 AAG LTE-TDD (SC-FDMA, 50% RB, 104Hz, 16-OAM, UL, Subframe-23,4,7,8,9) LTE-TDD 8.51 4.9.6 10490 AAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0FSK, UL, Subframe-23,4,7,8,9) LTE-TDD 7.4 4.9.6 10492 AAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0FSK, UL, Subframe-23,4,7,8,9) LTE-TDD 8.41 4.9.6 10492 AAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-AMA, UL, Subframe-23,4,7,8,9) LTE-TDD 7.44 4.9.6 10494 AAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-AMA, UL, Subframe-23,4,7,8,9) LTE-TDD 7.74 4.9.6 10494 AAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-AAM, UL, Subframe-23,4,7,8,9) LTE-TDD 8.74 4.9.6 10498 AAC LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-CAM, UL, Subframe-23,4,7,8,9) LTE-TDD 8.64 4.9.6 10498 AAC LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-CAM, UL, Subframe-23,4,7,8,9) LTE-TDD 7.67 4.9.6 10501 AAD LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-CAM, UL, Subframe-23,4,7,8,9) LTE-TDD 7.72 4.9.6 10502 AAD LTE-TDD (SC-FDMA, 100% RB,						-
10490 AAG LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 04-OAM, UL, Subtama-23,47,8,9) LTE-TDD 8.54 4.9.6 10491 AAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 07 SG), UL, Subtama-23,47,8,9) LTE-TDD 8.55 4.9.6 10492 AAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-OAM, UL, Subtama-23,47,8,9) LTE-TDD 8.55 4.9.6 10493 AAF LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 40-GAM, UL, Subtama-23,47,8,9) LTE-TDD 8.55 4.9.6 10494 AAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 40-GAM, UL, Subtama-23,47,8,9) LTE-TDD 8.54 4.9.8 10494 AAG LTE-TDD (SC-FDMA, 100% RB, 1-4MHz, 10-GAM, UL, Subtama-23,47,8,9) LTE-TDD 8.54 4.9.8 10494 AAC LTE-TDD (SC-FDMA, 100% RB, 1-4MHz, 16-GAM, UL, Subtama-23,47,8,9) LTE-TDD 8.49 4.9.8 10498 AAC LTE-TDD (SC-FDMA, 100% RB, 1-4MHz, 16-GAM, UL, Subtama-23,47,8,9) LTE-TDD 8.49 4.9.6 10501 AAD LTE-TDD (SC-FDMA, 100% RB, 1-4MHz, 16-GAM, UL, Subtama-23,47,8,9) LTE-TDD 8.49 4.9.6 10502 AAD LTE-TDD (SC-FDMA, 100% RB, 1-4MHz, 6-GAM						
10491 AAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-OM, UL Subframe-23, 47, 8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-AM, UL Subframe-23, 47, 8,9) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 46-AM, UL Subframe-23, 47, 8,9) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-AM, UL Subframe-23, 47, 8,9) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-AM, UL Subframe-23, 47, 8,9) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-AM, UL Subframe-23, 47, 8,9) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-AM, UL Subframe-23, 47, 8,9) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-AM, UL Subframe-23, 47, 8,9) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe-23, 47, 8,9) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe-23, 47, 8,9) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe-23, 47, 8,9) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe-23, 47, 8,9) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe-23, 47, 7,8,9) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe-23, 47, 7,8,9) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe-23, 47, 7,8,9) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe-23, 47, 7,8,9) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe-23, 47, 7,8,9) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe-23, 47, 7,8,9) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe-23, 47, 7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe-23, 47, 7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe-23, 47, 7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe-23, 47, 7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe-23, 47, 7,8,9) LTE-TDD (SC-FDMA, 100%		ļ				
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10492 AAF LTF-TDD (SC-FDMA, 50% RB, 15 MHz, 44-QAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 50% RB, 20 MHz, (SK) LLS, ULS, ULS, ULS, 24,7,8,9) LTF-TDD (SC-FDMA, 50% RB, 20 MHz, (SK) LLS, ULS, ULS, ULS, 24,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 14 MHz, GK-QAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 14 MHz, GK-QAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 14 MHz, GK-QAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 14 MHz, GK-QAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 14 MHz, GK-QAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 14 MHz, GK-QAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 14 MHz, GK-QAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 3 MHz, 14 GCAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 3 MHz, 14 GCAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 3 MHz, 14 GCAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 5 MHz, 14 GCAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 5 MHz, 14 GCAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 5 MHz, 14 GCAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 5 MHz, 14 GCAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 10 MHz, QCAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 10 MHz, QCAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 10 MHz, QCAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 10 MHz, QCAM, ULS, Subtrame-2,3,4,7,8,9) LTF-TDD (SC-FDMA, 100% RB, 10 MHz, QCAM, ULS, Subtrame-2,3,4,7,8,9)						
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10540 AAD IEEE 802.11ac WiFi (40 MHz, MCS6, 990c duly cycle) WI AN 839 +9.6	10538	AAD		WLAN	8.54	
	10540	AAD	IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc duty cycle)	WLÂN	8.39	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
10541	AAD	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duly 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 duly 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 duly cycle)	WLAN	8.55	±9.6
10546	AAD	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duly cycle)	WLAN	8.35	±9.6
10547	AAD	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duly cycle)	WLAN	8.49	±9.6
10548	AAD	IEEE 802.11ac WiFI (80 MHz, MCS4, 99pc duly cycle)	WLAN	8.37	±9.6
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	±9.6
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	±9.6
10554	AAE	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duly cycle)	WLAN	8.48	±9.6
10555	AAE	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
10556	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10557	AAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duly cycle)	WLAN	8.52	±9.6
10558	AAE	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duly cycle)	WLAN	8.61	±9.6
10560	AAE	IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duly cycle)	WLAN	8.73	±9.6
10561	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duly cycle)	WLAN	8.56	<u>+9.6</u>
10562	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
10563	AAE	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duly cycle)	WLAN	8.77	±9.6
10564		IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6 ±9.6
10567	AAA	IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)			±9.6
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN WLAN	8.10	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	1.99	±9.6
	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10572 10573	AAA AAA	IEEE 802.11b WiFI 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10573		IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
	AAA AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS, 11 Mops, sope duty cycle)	WLAN	8.59	±9.6
10575		IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duly cycle)	WLAN	8.60	±9.6
	AAA AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mops, 90pc duty cycle)	WLAN	8.70	±9.6
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10578	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mops, 90pc duty cycle)	WLAN	8.36	±9.6
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mops, 90pc duty cycle)	WLAN	8.36	±9.6
10580	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mops, 90pc duty cycle)	WLAN	8.35	±9.0 ±9.6
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mops, 90pc duty cycle)	WLAN	8.67	±9.6
10582	AAA	IEEE 802.11g/WIFI 2.4 GHz (DSSS-OFDW, 54 Mops, sopc duty cycle)	WLAN	8,59	±9.6
		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	<u>+9.6</u>
			WLAN	8.49	±9.6
10586 10587	AAD AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duly cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN WLAN	8.36	±9.6
10587	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mops, 90pc duty cycle)	WLAN	8.76	±9.6
10588	AAD	IEEE 802.11a/h WiFI 5 GHz (OFDM, 30 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10589	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 46 Mops, 90pc duty cycle)	WLAN	8.67	±9.6
10590	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
10592	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, sope duty cycle)	WLAN	8.79	<u>+9.6</u>
10592	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, sope duty cycle)	WLAN	8.64	±9.6
10593	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, sope duty cycle)	WLAN	8.74	±9.6
10595	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	8.71	±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, MCSC, 90pc duty cycle)	WLAN	8.50	±9.6
10599	AAD	IEEE 802.11n (HT Mixed, 20 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	±9.6
10602	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6
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	±9.6
10604	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, MCSC, 90pc duty cycle)	WLAN	8.82	±9.6
10608	AAD	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6
10608	AAD	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.77	±9.6
10000	1440	ובבב טעב דופט זיוו דו בט זוווב, ואטטד, שטאט טטנץ טעטפא		0.11	

					Line En a
UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
10609	AAD	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6 ±9.6
10610	AAD	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	
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 WLAN	8.77	±9.6
10613	AAD	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)		8.94	±9.6
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 duty cycle)	WLAN	8.82	±9.6
10616	AAD	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
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	±9.6
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	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
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 M/LAN	8.85	±9.6
	AAD	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN WLAN	8.72	±9.6
10631	AAD	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)		8.81 8.74	±9.6
10632	AAD	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)	WLAN	1	
10633	AAD AAD	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)		8.83 8.80	±9.6 ±9.6
10634	AAD		WLAN	8.81	±9.6
10635	AAD	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.83	±9.6
10637	AAE	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.0 ±9.6
10638	AAE	IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.86	±9.6
10639	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.85	±9.6
10640	AAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.98	<u>±9.6</u>
10641	AAE	IEEE 802.11ac WiFi (160 MHz, MCS4, sole duy cycle)	WLAN	9.06	±9.6
10642	AAE	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10642	AAE	IEEE 802.11ac WiFi (160 MHz, MCS0, 50pc duty cycle)	WLAN	8.89	±9.6
10644		IEEE 802.11ac WiFI (160 MHz, MCS7, Sope duty cycle)	WLAN	9.05	±9.6
10645	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subirame=2,7)	LTE-TDD	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653			LTE-TDD	7.42	±9.6
10655	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Cipping 44%)	LTE-TDD	6.96	±9.6
10655		LTE-TDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%) LTE-TDD (OFDMA, 20MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6
10655	AAP	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10658	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6
10655	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
10660	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6
10670	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.57	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.78	±9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.74	±9.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
10676	AAC	IEEE 802.11ax (20 MHz, MCS4, 50pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678	AAC	IEEE 802.11ax (20 MHz, MCS0, sope duty cycle)	WLAN	8.78	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duly cycle)	WLAN	8.62	±9.6
10681				8.83	±9.6
10681	AAC	IEEE 802.118x (20 MHz, MGS11, 900C (00 evele)			
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle) IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN WLAN		
10682 10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10682 10683 10684	AAC AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle) IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN WLAN	8.42 8.26	±9.6 ±9.6
10682 10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
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	±9.6
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	
10692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
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	±9.6
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	<u>±9.6</u>
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	±9.6
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	±9.6
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	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	<u>+</u> 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	AAC	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	±9.6
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	<u>±9.6</u>
10720	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
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728		IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duly cycle)	WLAN	8.64	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
10734	AAC AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.25	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6
10736			WLAN	8.27	±9.6
10737	AAC AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)		8.36	±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS8, 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
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN WLAN	8.40	±9.6
10742	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)		8.94	±9.6
10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN WLAN	9.16	±9.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duly cycle)	WLAN	8.93	±9.6
10746	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)		8.93	±9.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN WLAN	8.90	<u>+9.6</u>
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, sope duty cycle)	WLAN	8.79	±9.6
10752	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.82	±9.6
	7.40			8.81	±9.6

17753 ACC LEEE 802.11 to (100 MHL, MCS11, 900: duty cycle) WLAN 8.04 4.9.8 17754 ACC LEEE 802.11 to (100 MHL, MCS11, 900: duty cycle) WLAN 8.04 4.9.8 17754 ACC LEEE 802.11 to (100 MHL, MCS31, 900: duty cycle) WLAN 8.77 4.9.8 17757 ACC LEEE 802.11 to (100 MHL, MCS32, 900: duty cycle) WLAN 8.87 4.9.8 17767 ACC LEEE 802.11 to (100 MHL, MCS32, 900: duty cycle) WLAN 8.88 4.9.8 17767 ACC LEEE 802.11 to (100 MHL, MCS38, 900: duty cycle) WLAN 8.49 4.9.5 17767 ACC LEEE 802.11 to (100 MHL, MCS38, 900: duty cycle) WLAN 8.49 4.9.5 17078 ACC LEEE 802.11 to (100 MHL, MCS38, 900: duty cycle) WLAN 8.49 4.9.5 17074 ACC LEEE 802.11 to (100 MHL, MCS38, 900: duty cycle) WLAN 8.49 4.9.6 17076 ACC LEEE 802.11 to (100 MHL, MCS38, 900: duty cycle) WLAN 8.49 4.9.6 17076 ACC LEEE 802.11 to (100		Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10784 ACC EEEE 802.11 to (100 MHz, MCS31, 900 day cycle) WLAN 8.84 4.9.5 10785 ACC IEEE 802.11 to (100 MHz, MCS3, 900 day cycle) WLAN 8.77 4.9.5 10786 ACC IEEE 802.11 to (100 MHz, MCS3, 900 day cycle) WLAN 8.77 4.9.5 10776 ACC IEEE 802.11 to (100 MHz, MCS3, 900 day cycle) WLAN 8.58 4.9.5 10786 ACC IEEE 802.11 to (100 MHz, MCS3, 900 day cycle) WLAN 8.58 4.9.5 10767 ACC IEEE 802.11 to (100 MHz, MCS3, 900 day cycle) WLAN 8.59 4.9.5 10768 ACC IEEE 802.11 to (100 MHz, MCS3, 900 day cycle) WLAN 8.51 4.9.5 10768 ACC IEEE 802.11 to (100 MHz, MCS3, 900 day cycle) WLAN 8.51 4.9.5 10769 ACC IEEE 802.11 to (100 MHz, MCS3, 1900 day cycle) WLAN 8.51 4.9.0 10767 ACC IEEE 802.11 to (100 MHZ, MCS3, 1900 day cycle) WLAN 8.51 4.9.0 10768 ACC IEEE 802.11 to (100 MHZ, MCS3, 1900 day cycle)	<u> </u>				<u> </u>	
10765 ACC EEE 802.11 ter (105 MHz, MCS35) gönc dury og/db) WLAN 8.77 45.8 10775 ACC EEE 802.11 ter (105 MHz, MCS35) gönc dury og/db) WLAN 8.77 45.8 10785 ACC EEE 802.11 ter (105 MHz, MCS35, gönc dury og/db) WLAN 8.58 45.8 10786 ACC EEE 802.11 ter (105 MHz, MCS35, gönc dury og/db) WLAN 8.48 45.8 10767 ACC EEE 802.11 ter (105 MHz, MCS35, gönc dury og/db) WLAN 8.49 45.6 10767 ACC EEE 802.11 ter (106 MHz, MCS38, gönc dury og/db) WLAN 8.49 45.6 10768 ACC EEE 802.11 ter (106 MHz, MCS38, gönc dury og/db) WLAN 8.54 4.36 10768 ACC EEE 802.11 ter (106 MHz, MCS38, gönc dury og/db) WLAN 8.54 4.36 10767 ACC EEE 802.11 ter (106 MHz, MCS38, gönc dury og/db) WLAN 8.54 4.36 10767 ACC EEE 802.11 ter (106 MHz, MCS38, gönc dury og/db) WLAN 8.54 4.36 10776 ACC EEE 802.11 ter (106 MHz, MCS3						
10757 ACC EEE 802.11 as (100 MHz, MCS3: 99c duty cycla) WLAN 8.77 4.9.8 10787 ACC EEE 802.11 as (100 MHz, MCS3: 99c duty cycla) WLAN 8.89 4.9.8 10789 ACC EEE 802.11 as (100 MHz, MCS3: 99c duty cycla) WLAN 8.58 4.6.6 10799 ACC EEE 802.11 as (100 MHz, MCS3: 99c duty cycla) WLAN 8.58 4.6.6 10701 ACC EEE 802.11 as (100 MHz, MCS3: 99c duty cycla) WLAN 8.55 4.55 10784 ACC EEE 802.11 as (100 MHz, MCS3: 99c duty cycla) WLAN 8.54 4.50 10776 ACC EEE 802.11 as (100 MHz, MCS3: 99c duty cycla) WLAN 8.54 4.50 10776 ACC EEE 802.11 as (100 MHz, MCS3: 99c duty cycla) WLAN 8.54 4.50 10778 ACC EEE 802.11 as (100 MHz, MCS3: 99c duty cycla) WLAN 8.54 4.50 10778 ACC EEE 802.11 as (100 MHz, MCS3: 99c duty cycla) WLAN 8.54 4.50 10778 ACC EEE 802.11 as (100 MHZ, MCS3: 189c duty cycla)	<u></u>					
19757 ACC IEEE 60.211ta (160 MHz, MGS. 9696 dury optio) VILAN 8.97 49.8 19758 ACC IEEE 60.211ta (160 MHz, MGS. 9696 dury optio) VILAN 8.89 49.6 19769 ACC IEEE 60.211ta (160 MHz, MGS. 9696 dury optio) VILAN 8.49 49.6 19769 ACC IEEE 60.211ta (160 MHz, MGS. 9696 dury optio) VILAN 8.49 49.6 19776 ACC IEEE 60.211ta (160 MHz, MGS. 9696 dury optio) VILAN 8.49 49.6 19766 ACC IEEE 60.211ta (160 MHz, MGS. 9696 dury optio) VILAN 8.54 49.6 19767 ACC IEEE 60.211ta (160 MHz, MGS. 9696 dury optio) VILAN 8.54 49.6 19767 ACC IEEE 60.211ta (160 MHz, MGS. 9696 dury optio) VILAN 8.54 49.6 19777 ACG IEEE 60.211ta (160 MHz, MGS. 9696 dury optio) VILAN 8.54 49.6 19787 ACC IEEE 60.211ta (160 MHz, MGS. 9696 dury optio) VILAN 8.54 49.6 1977 ACG IGE ACT IEEE 60.211ta (160 MHz, M						-
10759 ACC IEEE 80.21 tax (160 MHz, MCSS, 9996 duy cycle) WLAN 8.49 45.5 10761 ACC IEEE 80.21 tax (160 MHz, MCSS, 9996 duy cycle) WLAN 8.49 45.5 10762 ACC IEEE 80.21 tax (160 MHz, MCSS, 9996 duy cycle) WLAN 8.49 45.5 10762 ACC IEEE 80.21 tax (150 MHz, MCSS, 9996 duy cycle) WLAN 8.44 45.5 10764 ACC IEEE 80.21 tax (150 MHz, MCSS, 9996 duy cycle) WLAN 8.54 2.55 10767 ACC IEEE 80.21 tax (150 MHz, MCSS, 9996 duy cycle) WLAN 8.54 2.55 10767 ACC IEEE 80.21 tax (150 MHz, MCSS, 15946 duy cycle) WLAN 8.54 2.55 10776 ALG SG NR (CP-OFDM, 178, 154Hz, CPSK, 154Hz) SG NR FH 17DD 8.01 4.56 10777 ALE SG NR (CP-OFDM, 178, 254Hz, CPSK, 154Hz) SG NR FH 17DD 8.02 4.56 10777 ALE SG NR (CP-OFDM, 178, 254Hz, 055K, 154Hz) SG NR FH 17DD 8.02 4.56 10777 ALE SG NR (CP-OFDM, 178, 554Hz, 055K, 154Hz		-				
10759 ACC IEEE 80.21 tax (160 MHz, MCSS, 9996 duy cycle) WLAN 8.49 45.5 10761 ACC IEEE 80.21 tax (160 MHz, MCSS, 9996 duy cycle) WLAN 8.49 45.5 10762 ACC IEEE 80.21 tax (160 MHz, MCSS, 9996 duy cycle) WLAN 8.49 45.5 10762 ACC IEEE 80.21 tax (150 MHz, MCSS, 9996 duy cycle) WLAN 8.44 45.5 10764 ACC IEEE 80.21 tax (150 MHz, MCSS, 9996 duy cycle) WLAN 8.54 2.55 10767 ACC IEEE 80.21 tax (150 MHz, MCSS, 9996 duy cycle) WLAN 8.54 2.55 10767 ACC IEEE 80.21 tax (150 MHz, MCSS, 15946 duy cycle) WLAN 8.54 2.55 10776 ALG SG NR (CP-OFDM, 178, 154Hz, CPSK, 154Hz) SG NR FH 17DD 8.01 4.56 10777 ALE SG NR (CP-OFDM, 178, 254Hz, CPSK, 154Hz) SG NR FH 17DD 8.02 4.56 10777 ALE SG NR (CP-OFDM, 178, 254Hz, 055K, 154Hz) SG NR FH 17DD 8.02 4.56 10777 ALE SG NR (CP-OFDM, 178, 554Hz, 055K, 154Hz		AAC			8.69	- ±9.6
10761 ACC IEEE 602 Itax (100 WHz, MCS3, 90pc duty cycle) WLAN 8.49 49.6 10762 ACC IEEE 602 Itax (100 WHz, MCS3, 90pc duty cycle) WLAN 8.49 49.6 10764 ACC IEEE 602 Itax (100 WHz, MCS3, 90pc duty cycle) WLAN 8.54 49.6 10764 ACC IEEE 602 Itax (100 WHz, MCS3, 90pc duty cycle) WLAN 8.54 49.6 10766 ACC IEEE 602 Itax (100 WHz, MCS1, 90pc duty cycle) WLAN 8.51 49.6 10767 ACC IEEE 602 Itax (100 WHz, MCS1, 90pc duty cycle) WLAN 8.51 49.6 10778 AEC SG NR (CP OFDM, THB, 10WH, CPSK, 15Hz) SG NR FH TDD 8.01 49.8 10778 AEC SG NR (CP OFDM, THB, 20 WH, CPSK, 15Hz) SG NR FH TDD 8.02 49.8 10777 AEC SG NR (CP OFDM, THB, 20 WH, CPSK, 15Hz) SG NR FH TDD 8.02 49.8 10777 AEC SG NR (CP OFDM, THB, 30 WH, CPSK, 15Hz) SG NR FH TDD 8.03 49.6 10774 AEC SG NR (CP OFDM, SWR B, 00 WH, CPSK, 15Hz)	10759	AAC		WLAN	8.58	±9.6
10762 AAC IEEE 802.1Tm (100 MHz, MCS9, 980 cluty cycle) WLAN 8.49 19.95 10764 AAC IEEE 802.1Tm (100 MHz, MCS9, 980 cluty cycle) WLAN 8.54 ±9.05 10765 AAC IEEE 802.1Tm (100 MHz, MCS9, 190 cluty cycle) WLAN 8.54 ±9.05 10765 AAC IEEE 802.1Tm (100 MHz, MCS1), 190 cluty cycle) WLAN 8.51 ±9.05 10767 AAC IEEE 802.1Tm (100 MHz, MCS1), 190 cluty cycle) WLAN 8.51 ±9.05 10767 AAC IEEE 802.1Tm (100 MHz, MCS1), 190 cluty cycle) SG NR (70-7CPM 1, TB, 190 MLz, CPSK, 15 Hu1) SG NR FFI TDD 8.01 ±9.05 10778 AAD SG NR (70-7CPM, 17B, 20 MHz, CPSK, 15 Hu1) SG NR FFI TDD 8.02 ±9.05 10777 AAE SG NR (70-7CPM, 17B, 20 MHz, CPSK, 15 Hu1) SG NR FFI TDD 8.02 ±9.05 10777 AAE SG NR (70-7CPM, 17B, 20 MHz, CPSK, 15 Hu1) SG NR FFI TDD 8.02 ±9.05 10778 AAE SG NR (70-7CPM, 17B, 20 MHz, CPSK, 15 Hu1) SG NR FFI TDD 8.03 ±9.05 10.05	10760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6
10763 AAC IEEE 802.11x (100 MHz, MCS9, 890 clury cycle) WLAN 8.53 +9.8 10764 AAC IEEE 802.11x (100 MHz, MCS9, 890 clury cycle) WLAN 8.54 3.9.8 10765 AAC IEEE 802.11x (100 MHz, MCS10, 890 clury cycle) WLAN 8.51 9.9.8 10766 AAC IEEE 802.11x (100 MHz, MCS11, 890 clury cycle) WLAN 8.51 9.9.8 10767 AAC SO NR (CP-OFDM, 1 RB, 10Mz, OPSK, 15H4) 50 A RF FRI TDD 2.9.8 1.9.8 10770 AAC SO NR (CP-OFDM, 1 RB, 20Mz, OPSK, 15H4) 50 A RF FRI TDD 8.0.2 4.9.6 10771 AAC SO NR (CP-OFDM, 1 RB, 20Mz, OPSK, 15H4) 50 A RF FRI TDD 8.0.2 4.9.6 10772 AAC SO NR (CP-OFDM, 1 RB, 20Mz, OPSK, 15H4) 50 A RF FRI TDD 8.0.2 4.9.6 10774 AAC SO NR (CP-OFDM, 1 RB, 20Mz, OPSK, 15H4) 50 A RF FRI TDD 8.0.2 4.9.6 10774 AAC SO NR (CP-OFDM, 100 K, 900 KB, 100 MLz, OPSK, 15H4) 50 A RF FRI TDD 8.0.2 4.9.6 10776 AAC	10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6
10764 ACC IEEE 802.11a (100 MHz, MCS9), 850 duly cycle) WLAN 8.54 1.96 10765 ACC IEEE 802.11a (100 MHz, MCS9), 850 duly cycle) WLAN 8.51 .956 10767 ACC IEEE 802.11a (100 MHz, MCS1), 850 duly cycle) WLAN 8.51 .956 10767 ACC IEEE 802.11a (100 MHz, MCS1), 850 duly cycle) SG NR FPI TOD 7.01 .918 10768 ACC IEEE 802.11a (100 MHz, MCS1), 850 duly cycle) SG NR FPI TOD 8.01 .928 10777 ACE SG NR (CP-CPCM L HB, 100 MHz, OPSK, 154H2) SG NR FPI TDD 8.02 .956 10777 ACE SG NR (CP-CPGN L HB, 200 MHz, OPSK, 154H2) SG NR FPI TDD 8.02 .956 10772 ACE SG NR (CP-CPGN L, HB, 200 MHz, OPSK, 154H2) SG NR FPI TDD 8.02 .956 10774 ACE SG NR (CP-CPGN L, HB, 200 MHz, OPSK, 154H2) SG NR FPI TDD 8.02 .956 10774 ACE SG NR (CP-CPGN L, HB, 200 MHz, OPSK, 154H2) SG NR FPI TDD 8.03 .956 10777 ACE SG NR (C	10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6
10765 AAC IEEE 80.2114 (100 MHF, MCS11) (3800 duly gyde) WLAN 8.54 9.96 10767 AAG SG NR (CP-OFDM, TR6, SMHz, OPSK, 15Hzl) SG NR FPI TOD 7.09 49.80 10767 AAG SG NR (CP-OFDM, 1 R8, 10MLz, OPSK, 15Hzl) SG NR FPI TOD 8.01 49.80 10768 AAE SG NR (CP-OFDM, 1 R8, 10MLz, OPSK, 15Hzl) SG NR FPI TOD 8.01 49.80 10770 AAE SG NR (CP-OFDM, 1 R8, 20MLz, OPSK, 15Hzl) SG NR FPI TOD 8.02 49.80 10771 AAE SG NR (CP-OFDM, 1 R8, 20MLz, OPSK, 15Hzl) SG NR FPI TOD 8.02 49.80 10772 AAE SG NR (CP-OFDM, 1 R8, 20MLz, OPSK, 15Hzl) SG NR FPI TOD 8.03 49.80 10774 AAE SG NR (CP-OFDM, 1 R8, 20MLz, OPSK, 15Hzl) SG NR FPI TDD 8.03 49.80 10774 AAE SG NR (CP-OFDM, 50% R6, 10MLz, OPSK, 15Hzl) SG NR FPI TDD 8.03 49.80 10774 AAE SG NR (CP-OFDM, 50% R6, 20MLz, OPSK, 15Hzl) SG NR FPI TDD 8.30 49.80 10778 AAE SG	10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
10767 AAC IEEE 802:11 av (100 MHz, MCS11, 5802 duy opte) WLAN 8.51 #9.63 10767 AAC 55 NR (CP-CPM, 11 R6, 100 Miz, OPSK, 15 Mtz) 56 NR FPI TOD 8.01 #9.83 10768 AAC 55 NR (CP-CPM, 11 R8, 100 Miz, OPSK, 15 Mtz) 56 NR FPI TOD 8.01 #9.83 10777 AAC 55 NR (CP-CPM, 11 R8, 20 Mtz, OPSK, 15 Mtz) 56 NR FPI TOD 8.02 #9.65 10777 AAC 55 NR (CP-CPM, 11 R8, 20 Mtz, OPSK, 15 Mtz) 56 NR FPI TDD 8.02 #9.65 10777 AAC 55 NR (CP-CPM, 11 R8, 20 Mtz, OPSK, 15 Mtz) 56 NR FPI TDD 8.03 #9.65 10776 AAC 55 NR (CP-CPM, 188, 20 Mtz, OPSK, 15 Mtz) 56 NR FPI TDD 8.02 ±9.6 10776 AAC 56 NR (CP-CPM, 50%, R8, 15 Mtz, OPSK, 15 Mtz) 56 NR FPI TDD 8.02 ±9.6 10776 AAC 50 NR (CP-CPM, 50%, R8, 15 Mtz, OPSK, 15 Mtz) 56 NR FPI TDD 8.34 ±9.6 10777 AAC 50 NR (CP-CPM, 50%, R8, 30 Mtz, OPSK, 15 Mtz) 56 NR FPI TDD 8.34 ±9.6 10777 AAC<	10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duly cycle)	WLAN	8.54	±9.6
10767 AAG SG NR (CP-DFM, 1 PB, 5MHz, OPSK, 15MHz) SG NR PR1 TOD 2.09 10768 AAE SG NR (CP-DFM, 1 PB, 15MHz, OPSK, 15MHz) SG NR PR1 TOD 8.01 ±9.6 10770 AAE SG NR (CP-DFM, 1 PB, 15MHz, OPSK, 15MHz) SG NR PR1 TOD 8.02 ±9.6 10771 AAD SG NR (CP-DFM, 1 PB, 29MHz, OPSK, 15MHz) SG NR PR1 TDD 8.02 ±9.6 10772 AAE SG NR (CP-DFM, 1 PB, 29MHz, OPSK, 15MHz) SG NR PR1 TDD 8.02 ±9.6 10773 AAE SG NR (CP-OFDM, 1 RB, 40MHz, OPSK, 15MHz) SG NR PR1 TDD 8.02 ±9.6 10774 AAE SG NR (CP-OFDM, 1 RB, 50MHz, OPSK, 15MHz) SG NR PR1 TDD 8.03 ±9.6 10775 AAE SG NR (CP-OFDM, 50% RB, 50MHz, OPSK, 15MHz) SG NR PR1 TDD 8.30 ±9.6 10776 AAE SG NR (CP-OFDM, 50% RB, 50MHz, OPSK, 15MHz) SG NR PR1 TDD 8.30 ±9.6 10777<	10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLÂN	8.54	±9.6
10769 AME SG NR (CP-OFDM, 1 BB, 15MHz, OPSK, 15MHz) SG NR FR1 TDD 8.01 ±9.6 10770 AME SG NR (CP-OFDM, 1 BB, 15MHz, OPSK, 15MHz) SG NR FR1 TDD 6.02 ±9.6 10770 AME SG NR (CP-OFDM, 1 BB, 20MHz, OPSK, 15MHz) SG NR FR1 TDD 6.02 ±9.6 10771 AME SG NR (CP-OFDM, 1 BB, 20MHz, OPSK, 15MHz) SG NR FR1 TDD 8.02 ±9.6 10772 AME SG NR (CP-OFDM, 1 BB, 30MHz, OPSK, 15MHz) SG NR FR1 TDD 8.02 ±9.6 10774 AME SG NR (CP-OFDM, 1 BB, 30MHz, OPSK, 15MHz) SG NR FR1 TDD 8.02 ±9.6 10776 AME SG NR (CP-OFDM, 50% BB, 5MHz, OPSK, 15MHz) SG NR FR1 TDD 8.30 ±9.6 10777 AME SG NR (CP-OFDM, 50% BB, 20MHz, OPSK, 15MHz) SG NR FR1 TDD 8.30 ±9.6 10778 AME SG NR (CP-OFDM, 50% BB, 20MHz, OPSK, 15MHz) SG NR FR1 TDD 8.34 ±9.6 10780 AME SG NR (CP-OFDM, 50% BB, 20MHz, OPSK, 15MHz) SG NR FR1 TDD 8.34 ±9.6 10781 AME SG		AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
10769 AAD SG NR (CP-OFDM, 1 HB, 15 MHz, OPSK, 15 HHz) SG NR FR1 TDD 8.01 9.96 10771 AAD SG NR (CP-OFDM, 1 HB, 20 MHz, OPSK, 15 HHz) SG NR FR1 TDD 8.02 9.96 10771 AAD SG NR (CP-OFDM, 1 HB, 20 MHz, OPSK, 15 HHz) SG NR FR1 TDD 8.02 9.96 10772 AAE SG NR (CP-OFDM, 1 HB, 30 MHz, OPSK, 15 Hz) SG NR FR1 TDD 8.02 9.96 10774 AAE SG NR (CP-OFDM, 1 HB, 40 MHz, OPSK, 15 Hz) SG NR FR1 TDD 8.02 9.96 10775 AAE SG NR (CP-OFDM, 50% RB, 5 MHz, OPSK, 15 Hz) SG NR FR1 TDD 8.30 4.96 10776 AAE SG NR (CP-OFDM, 50% RB, 5 MHz, OPSK, 15 Hz) SG NR FR1 TDD 8.30 4.96 10777 AAC SG NR (CP-OFDM, 50% RB, 30 MHz, OPSK, 15 Hz) SG NR FR1 TDD 8.34 4.86 10778 AAC SG NR (CP-OFDM, 50% RB, 30 MHz, OPSK, 15 Hz) SG NR FR1 TDD 8.34 4.86 10780 AAE SG NR (CP-OFDM, 50% RB, 30 MHz, OPSK, 15 Hz) SG NR FR1 TDD 8.34 4.86 1.96 10781	10767	AAG		5G NR FR1 TDD	7.99	±9.6
10707 AME SG NR ICP-OFDM, 1 BB, 29 MHz, OPSK, 15 HHz) SG NR FR1 TDD 8.02 9.98 10772 AME SG NR ICP-OFDM, 1 BB, 30 MHz, OPSK, 15 HHz) SG NR FR1 TDD 8.23 9.96 10772 AME SG NR ICP-OFDM, 1 BB, 30 MHz, OPSK, 15 HHz) SG NR FR1 TDD 8.23 9.96 10774 AME SG NR ICP-OFDM, 1 BB, 30 MHz, OPSK, 15 HHz) SG NR FR1 TDD 8.23 4.96 10775 AME SG NR ICP-OFDM, S0% RB, 15 MHz, OPSK, 15 HHz) SG NR FR1 TDD 8.30 4.96 10776 AME SG NR ICP-OFDM, S0% RB, 15 MHz, OPSK, 15 HHz) SG NR FR1 TDD 8.30 4.96 10776 AME SG NR ICP-OFDM, S0% RB, 20 MHz, OPSK, 15 HHz) SG NR FR1 TDD 8.34 4.96 10776 AME SG NR ICP-OFDM, S0% RB, 30 MHz, OPSK, 15 HHz) SG NR FR1 TDD 8.34 4.96 10776 AME SG NR ICP-OFDM, S0% RB, 30 MHz, OPSK, 15 HHz) SG NR FR1 TDD 8.34 4.96 10778 AME SG NR ICP-OFDM, 100% RB, 50 MHz, OPSK, 15 HHz) SG NR FR1 TDD 8.34 4.96 1.96 1.96		-				
1077 AAD G SN R (CP-CPDM, 1 RB, 25 MHz, CPSK, 15 Htz) SG N R FF 11 TDD 8.02 ±9.6 10772 AAF G SN R (CP-CPDM, 1 RB, 20 MHz, CPSK, 15 Htz) SG N R FF 11 TDD 8.02 ±9.6 10773 AAF G SN R (CP-CPDM, 1 RB, 20 MHz, CPSK, 15 Htz) SG N R FA 11 TDD 8.02 ±9.6 10775 AAF G SN R (CP-CPDM, 1 SR, 20 MHz, CPSK, 15 Htz) SG N R FA 11 TDD 8.33 ±9.6 10776 AAF SG N N (CP-CPDM, 50% RB, 80 MHz, CPSK, 15 Htz) SG N R FR 11 TDD 8.30 ±9.6 10777 AAF SG N N (CP-CPDM, 50% RB, 80 MHz, CPSK, 15 Htz) SG N R FR 11 TDD 8.34 ±9.6 10778 AAF SG N N (CP-CPDM, 50% RB, 82 MHz, CPSK, 15 Htz) SG N R FR 11 TDD 8.43 ±9.6 10781 AAF SG N N (CP-CPDM, 50% RB, 82 MHz, CPSK, 15 Htz) SG N R FR 11 TDD 8.43 ±9.6 10782 AAE SG N R (CP-CPDM, 50% RB, 82 MHz, CPSK, 15 Htz) SG N R FR 11 TDD 8.43 ±9.6 10783 AAG SG N R (CP-CPDM, 100% RB, 10 MHz, CPSK, 15 Htz) SG N R FR 11 TDD 8.43 ±9.6						
10727 AAE 6G NR (CP-OFDM, 1R6, 30MHz, OPSK, 15kHz) 5G NR FF1 TDD 8.23 496 10773 AAF 5G NR FGP-OFDM, 1R6, 30MHz, OPSK, 15kHz) 5G NR FR1 TDD 8.03 496 10774 AAE SG NR FGP-OFDM, 1R6, 30MHz, OPSK, 15kHz) 5G NR FR1 TDD 8.02 496 10776 AAE SG NR (CP-OFDM, 50% R8, 30MHz, OPSK, 15kHz) 5G NR FR1 TDD 8.31 496 10777 AAC SG NR (CP-OFDM, 50% R8, 30MHz, OPSK, 15kHz) 5G NR FR1 TDD 8.33 496 10777 AAC SG NR (CP-OFDM, 50% R8, 30MHz, OPSK, 15kHz) 5G NR FR1 TDD 8.34 496 10778 AAC SG NR (CP-OFDM, 50% R8, 30MHz, OPSK, 15kHz) 5G NR FR1 TDD 8.33 496 10781 AAF SG NR (CP-OFDM, 50% R8, 30MHz, OPSK, 15kHz) 5G NR FR1 TDD 8.33 496 10782 AAE SG NR (CP-OFDM, 50% R8, 30MHz, OPSK, 15kHz) 5G NR FR1 TDD 8.33 496 10783 AAG SG NR (CP-OFDM, 100% R8, 10MHz, OPSK, 15kHz) 5G NR FR1 TDD 8.33 496 10784 AAE SG NR (
10727 AAF GO NR (CP-OFDM, 1 RB, 40MHz, CPSK, 15kHz) SG NR FF1 TDD 8.03 ±9.6 10774 AAF GO NR (CP-OFDM, 1 RB, 50MHz, CPSK, 15kHz) SG NR FF1 TDD 8.01 ±9.6 10775 AAF GO NR (CP-OFDM, 15%, 60K, RB, 15MHz, CPSK, 15kHz) SG NR FF1 TDD 8.31 ±9.6 10776 AAF SG NR (CP-OFDM, 50%, RB, 80MHz, CPSK, 15kHz) SG NR FF1 TDD 8.30 ±9.6 10777 AAC SG NR (CP-OFDM, 50%, RB, 80MHz, CPSK, 15kHz) SG NR FF1 TDD 8.34 ±9.6 10778 AAC SG NR (CP-OFDM, 50%, RB, 80MHz, CPSK, 15kHz) SG NR FF1 TDD 8.34 ±9.6 10780 AAC SG NR (CP-OFDM, 50%, RB, 30MHz, CPSK, 15kHz) SG NR FF1 TDD 8.33 ±9.6 10781 AAF SG NR (CP-OFDM, 50%, RB, 30MHz, CPSK, 15kHz) SG NR FF1 TDD 8.33 ±9.6 10784 AAE SG NR (CP-OFDM, 100%, RB, 10MHz, CPSK, 15kHz) SG NR FF1 TDD 8.34 ±9.6 10784 AAE SG NR (CP-OFDM, 100%, RB, 20MHz, CPSK, 15kHz) SG NR FF1 TDD 8.34 ±9.6 10786 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
1077 AAE EG NR FR1 TDD 8.02 #.9.6 10775 AAF EG NR FR1 TDD 8.31 #.9.6 10776 AAE EG NR FR1 TDD 8.31 #.9.6 10777 AAC EG NR (CP-OFDM, 50%, RB, 10MHz, QPSK, 15Htz) SG NR FR1 TDD 8.30 #.9.6 10777 AAC EG NR (CP-OFDM, 50%, RB, 20MHz, QPSK, 15Htz) SG NR FR1 TDD 8.43 #.9.6 10778 AAC EG NR (CP-OFDM, 50%, RB, 20MHz, QPSK, 15Htz) SG NR FR1 TDD 8.42 #.9.6 10780 AAC EG NR (CP-OFDM, 50%, RB, 20MHz, QPSK, 15Htz) SG NR FR1 TDD 8.43 #.9.6 10781 AAF EG NR (CP-OFDM, 50%, RB, 20MHz, QPSK, 15Htz) SG NR FR1 TDD 8.43 #.9.6 10782 AAE EG NR (CP-OFDM, 50%, RB, 20MHz, QPSK, 15Htz) SG NR FR1 TDD 8.31 #.9.6 10784 AAE GG NR (CP-OFDM, 100%, RB, 20MHz, QPSK, 15Htz) SG NR FR1 TDD 8.40 #.9.6 10786 AAD GG NR (CP-OFDM, 100%, RB, 20MHz, QPSK, 15Htz) SG NR FR1 TDD 8.39 #.9.6 <				· · · · · · · · · · · · · · · · · · ·		
10775 AAF 56 NR (CP-OFDM, 50% RB, 50MHz, OPSK, 15Hz) 56 NR FR1 TDD 8.30 ±9.6 10777 AAE 56 NR (CP-OFDM, 50% RB, 15MHz, OPSK, 15Hz) 56 NR FR1 TDD 8.30 ±9.6 10777 AAE 56 NR (CP-OFDM, 50% RB, 15MHz, OPSK, 15Hz) 56 NR FR1 TDD 8.34 ±9.6 10778 AAE 56 NR (CP-OFDM, 50% RB, 20MHz, OPSK, 15Hz) 56 NR FR1 TDD 8.34 ±9.6 10781 AAF 56 NR (CP-OFDM, 50% RB, 20MHz, OPSK, 15Hz) 56 NR FR1 TDD 8.38 ±9.6 10781 AAE 56 NR (CP-OFDM, 50% RB, 20MHz, OPSK, 15Hz) 56 NR FR1 TDD 8.34 ±9.6 10782 AAE 56 NR (CP-OFDM, 50% RB, 20MHz, OPSK, 15Hz) 56 NR FR1 TDD 8.34 ±9.6 10783 AAG 56 NR (CP-OFDM, 100% RB, 50MHz, OPSK, 15Hz) 56 NR FR1 TDD 8.32 ±9.6 10784 AAE 56 NR (CP-OFDM, 100% RB, 20MHz, OPSK, 15Hz) 56 NR FR1 TDD 8.32 ±9.6 10786 AAE 56 NR (CP-OFDM, 100% RB, 20MHz, OPSK, 15Hz) 56 NR FR1 TDD 8.32 ±9.6 10786 AAE 56 NR (CP-OFDM, 100% RB, 20MHz, OPSK, 15Hz) 56 NR FR1 TDD 8.32 ±9.6		-				
10777 AAE 6 GN R (CP-OFDM, 50%, RB, 10 MHz, OPSK, 15 KHz) 56 NN FFR1 TDD 8.30 ±9.6 10777 AAE 5G NN FR1 TDD 6.30 ±9.6 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
10777 AAC 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.30 19.6 10778 AAC 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.34 19.6 10778 AAC 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.38 19.6 10781 AAE 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.38 19.6 10782 AAE 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.43 19.6 10783 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.43 19.6 10784 AAE 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.40 19.6 10786 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.40 19.6 10787 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.44 19.6 10788 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.49 19.6 10790 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
10779 AAE 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.34 +9.6 10780 AAE 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.38 +9.6 10780 AAE 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.38 +9.6 10781 AAF 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.38 +9.6 10782 AAG 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.31 +9.6 10783 AAG 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.40 +9.6 10786 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 +9.6 10786 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 +9.6 10787 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 +9.6 10789 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 +9.6 10780 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD						
10779 AAC 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.42 19.6 10780 AAE 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.38 +9.6 10781 AAE 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.43 +9.6 10782 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.43 +9.6 10784 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.29 +4.9.6 10784 AAE 5G NR (CP-OFDM, 100% RB, 10 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 8.44 +9.6 10787 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 +9.6 10789 AAF 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 +9.6 10789 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.39 +9.6 10789 AAE 5G NR (CP-OFDM, 118, 8, 00 MHz, QPSK, 30 KHz) 5G NR FR1 TDD </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
10760 AAE 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.38 +9.6 10781 AAE 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.38 ±9.6 10782 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.31 ±9.6 10783 AAG 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.29 ±9.6 10784 AAE 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.49 ±9.6 10785 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.49 ±9.6 10786 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 ±9.6 10780 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 ±9.6 10780 AAE 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 ±9.6 10781 AAG 5G NR (CP-OFDM, 108%, RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ±9.6 10783 AAD 5G NR (CP-OFDM, 188, 5MHz, QPSK, 30 KHz) 5G NR FR1 TDD		<u> </u>				
10781 AAE 5G NR (CP-OFDM, 50%, RB, 40 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.38 ±9.6 10782 AAE 5G NR (CP-OFDM, 50%, RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.31 ±9.6 10784 AAE 5G NR (CP-OFDM, 100%, RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.32 ±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, 15 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.43 ±9.6 10787 AAD 5G NR (CP-OFDM, 100%, RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.33 ±9.6 10788 AAE 5G NR (CP-OFDM, 100%, RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 ±9.6 10789 AAE 5G NR (CP-OFDM, 100%, RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 ±9.6 10780 AAE 5G NR (CP-OFDM, 100%, RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ±9.6 10781 AAE 5G NR (CP-OFDM, 11 RB, 5MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ±9.6 10782 AAE 5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30 KHz) 5G NR FR1 TDD </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
10782 AAE 5G NR (CP-OFDM, 50%, RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.43 19.6 10783 AAG 5G NR (CP-OFDM, 100%, RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.21 49.6 10784 AAE 5G NR (CP-OFDM, 100%, RB, 10 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.20 49.6 10785 AAD 5G NR (CP-OFDM, 100%, RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.44 49.6 10786 AAD 5G NR (CP-OFDM, 100%, RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.44 49.6 10780 AAE 5G NR (CP-OFDM, 100%, RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 49.6 10780 AAE 5G NR (CP-OFDM, 100%, RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 49.6 10780 AAE 5G NR (CP-OFDM, 108%, RB, 40 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 49.6 10781 AAG 5G NR (CP-OFDM, 108%, RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 49.6 10783 AAO 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 49.6 10784 AAE 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 T						
10783 AAG FG NR (CP-OFDM, 100%, RB, 50H4z, OPSK, 15kHz) 5G NR FFH TDD 8.31 ±9.6 10784 AAE 5G NR (CP-OFDM, 100%, RB, 10 MHz, OPSK, 15kHz) 5G NR FR1 TDD 8.29 ±9.6 10786 AAE 5G NR (CP-OFDM, 100%, RB, 15 MHz, OPSK, 15 kHz) 5G NR FR1 TDD 8.35 ±9.6 10787 AAD 5G NR (CP-OFDM, 100%, RB, 20 MHz, OPSK, 15 kHz) 5G NR FR1 TDD 8.34 ±9.6 10788 AAE 5G NR (CP-OFDM, 100%, RB, 20 MHz, OPSK, 15 kHz) 5G NR FR1 TDD 8.39 ±9.6 10780 AAE 5G NR (CP-OFDM, 100%, RB, 30 MHz, OPSK, 15 kHz) 5G NR FR1 TDD 8.39 ±9.6 10790 AAE 5G NR (CP-OFDM, 100%, RB, 30 MHz, OPSK, 15 kHz) 5G NR FR1 TDD 8.39 ±9.6 10791 AAG 5G NR (CP-OFDM, 100%, RB, 30 MHz, OPSK, 30 kHz) 5G NR FR1 TDD 7.83 ±9.6 10793 AAE 5G NR (CP-OFDM, 178, 5MHz, OPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10794 AAE 5G NR (CP-OFDM, 178, 20 Hz, OPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10795 AAD 5G NR (CP-OFDM, 178, 20 Hz, OPSK, 30 kHz) 5G NR FR1 TDD						
10784 AAE 5G NR (CP-OFDM, 100%, RB, 10 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.29 ±9.6 10786 AAD 5G NR (CP-OFDM, 100%, RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.40 ±9.6 10787 AAD 5G NR (CP-OFDM, 100%, RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.44 ±9.6 10787 AAD 5G NR (CP-OFDM, 100%, RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ±9.6 10788 AAE 5G NR (CP-OFDM, 100%, RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ±9.6 10789 AAE 5G NR (CP-OFDM, 100%, RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ±9.6 10781 AAG 5G NR (CP-OFDM, 118, 5MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ±9.6 10782 AAE 5G NR (CP-OFDM, 1 RB, 16 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10783 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10784 AAE 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10785						
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 8.44 ±9.6 10787 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ±9.6 10788 AAE 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ±9.6 10789 AAE 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ±9.6 10790 AAE 5G NR (CP-OFDM, 108% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 7.33 ±9.6 10791 AAG 5G NR (CP-OFDM, 18R, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 ±9.6 10793 AAE 5G NR (CP-OFDM, 18R, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10794 AAE 5G NR (CP-OFDM, 18R, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10794 AAE 5G NR (CP-OFDM, 18R, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10796 AAE 5G NR (CP-OFDM, 18R, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82						
10786 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, OPSK, 15 KHz) 5G NR FR1 TDD 8.45 ±9.6 10787 AAD 6G NR (CP-OFDM, 100% RB, 20 MHz, OPSK, 15 KHz) 5G NR FR1 TDD 8.44 ±9.6 10788 AAF 5G NR (CP-OFDM, 100% RB, 30 MHz, OPSK, 15 KHz) 5G NR FR1 TDD 8.39 ±9.6 10789 AAF 5G NR (CP-OFDM, 100% RB, 30 MHz, OPSK, 15 KHz) 5G NR FR1 TDD 8.39 ±9.6 10791 AAG 5G NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.33 ±9.6 10792 AAE 5G NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.92 ±9.6 10793 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.92 ±9.6 10793 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.82 ±9.6 10794 AAE 5G NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.82 ±9.6 10796 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.82 ±9.6 10798 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.						
10787 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, OPSK, 15 KHz) 5G NR FR1 TDD 8.44 ±9.6 10788 AAE 5G NR (CP-OFDM, 100% RB, 30 MHz, OPSK, 15 KHz) 5G NR FR1 TDD 8.39 ±9.6 10790 AAE 5G NR (CP-OFDM, 100% RB, 30 MHz, OPSK, 15 KHz) 5G NR FR1 TDD 8.39 ±9.6 10790 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 15 KHz) 5G NR FR1 TDD 7.83 ±9.6 10791 AAG 5G NR (CP-OFDM, 18B, 10 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.92 ±9.6 10793 AAD 5G NR (CP-OFDM, 18B, 10 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.92 ±9.6 10793 AAD 5G NR (CP-OFDM, 18B, 10 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.82 ±9.6 10794 AAE 5G NR (CP-OFDM, 18B, 20 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.84 ±9.6 10795 AAE 5G NR (CP-OFDM, 18B, 20 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.84 ±9.6 10797 AAF 5G NR (CP-OFDM, 18B, 50 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.83 ±9.6 10797 AAF 5G NR (CP-OFDM, 18B, 50 MHz, OPSK, 30 KHz) 5G NR FR1 TDD 7.89						
10788 AAE 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 ±9.6 10789 AAF 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 ±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, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.95 ±9.6 10793 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10795 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10795 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 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, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ±9.6 10798 AAE 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93						
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, 10 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 10794 AAE 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10795 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10796 AAE 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ±9.6 10797 AAF 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ±9.6 10797 AAF 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ±9.6 10798 AAE 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ±9.6 10801 AAF 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ±9.6 10802 AAE 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83	10788	AAE				
10791 AAG 5G NR (CP-OFDM, 1 RB, 5 MHz, OPSK, 30 kHz) 5G NR FR1 TDD 7.83 ±9.6 10792 AAE 5G NR (CP-OFDM, 1 RB, 15 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 7.92 ±9.6 10794 AAE 5G NR (CP-OFDM, 1 RB, 20 Hz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10795 AAD 5G NR (CP-OFDM, 1 RB, 20 Hz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 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, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10798 AAF 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10799 AAF 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10801 AAF 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10802 AAF 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89	10789	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±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 10794 AAE 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ±9.6 10795 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ±9.6 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, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ±9.6 10798 AAE 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ±9.6 10799 AAF 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ±9.6 10801 AAF 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ±9.6 10802 AAE 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.87 ±9.6 10803 AAF 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.93	10790	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10793 AAD 5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.95 ±9.6 10794 AAE 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.82 ±9.6 10795 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.82 ±9.6 10796 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.82 ±9.6 10797 AAF 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.82 ±9.6 10798 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.89 ±9.6 10799 AAF 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10801 AAF 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10802 AAE 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10803 AAF 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ±9.6 10803 AAE 5G NR (CP-OFDM, 50% RB, 10MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.37 ±	10791	AAG	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10794 AAE 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10795 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ±9.6 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, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.01 ±9.6 10798 AAE 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10799 AAF 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9.6 10801 AAF 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10802 AAE 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9.6 10803 AAE 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9.6 10804 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9.6 10805 AAE 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34	10792	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10795 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ±9.6 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 10799 AAF 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10799 AAF 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10801 AAF 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9.6 10802 AAE 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9.6 10803 AAF 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ±9.6 10805 AAE 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10806 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34	10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
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 10799 AAF 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9.6 10801 AAF 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10802 AAE 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10803 AAF 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9.6 10805 AAE 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10808 AAF 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10809 AAE 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34		AAE	5G NR (CP-OFDM, 1 RB, 20 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 10799 AAF 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10801 AAF 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10802 AAF 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9.6 10803 AAF 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9.6 10804 AAF 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10805 AAE 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10806 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10808 AAE 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10810 AAF 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 </td <td>10795</td> <td>AAD</td> <td></td> <td>5G NR FR1 TDD</td> <td>7.84</td> <td>±9.6</td>	10795	AAD		5G NR FR1 TDD	7.84	±9.6
10799 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10799 AAF 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9.6 10801 AAF 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10802 AAE 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9.6 10803 AAF 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9.6 10805 AAE 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.37 ±9.6 10806 AAE 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10809 AAE 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10810 AAF 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10812 AAF 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35<						±9.6
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10817 AAG 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9.6 10818 AAE 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10819 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ±9.6 10820 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ±9.6 10821 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9.6 10822 AAE 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9.6 10822 AAE 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9.6 10823 AAF 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9.6 10824 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 ±9.6 10825 AAF 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9.6 10825 AAF 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD </td <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>					-	
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10819 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ±9.6 10820 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.30 ±9.6 10820 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9.6 10821 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9.6 10822 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9.6 10822 AAE 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9.6 10823 AAF 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 ±9.6 10824 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 ±9.6 10825 AAF 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9.6 10827 AAF 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9.6	_					
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10825 AAF 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9.6 10827 AAF 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9.6						
10827 AAF 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9.6						
	10827	AAF				
	10828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.6

Jung Box SCH IT CORE NUMBER (SOLUT) SOL NE FRAIT TOD 8.0 Ref 10051 AAE SOL NE (PC PORTM, LER 100MHz, OPEK, 60Hz) SOL NE FRAIT TOD 7.03 19.5 10521 AAE SOL NE (PC PORTM, LER 100MHz, OPEK, 60Hz) SOL NE FRAIT TOD 7.74 49.6 10522 AAE SOL NE (PC PORTM, LER 20MHz, OPEK, 60Hz) SOL NE FRAIT TOD 7.74 49.6 10523 AAE SOL NE (PC PORTM, LER 20MHz, OPEK, 60Hz) SOL NE FRAIT TOD 7.74 49.6 10584 AAE SOL NE (PC PORTM, LER 20MHz, OPEK, 60Hz) SOL NE FRAIT TOD 7.75 49.6 10585 AAE SOL NE (PC PORTM, LER, 20MHz, OPEK, 60Hz) SOL NE FRAIT TOD 7.76 49.6 10587 AAF SOL NE (PC PORTM, LER, 20MHz, OPEK, 60Hz) SOL NE FRAIT TOD 7.77 49.6 10587 AAF SOL NE (PC PORTM, LER, 20MHz, OPEK, 60Hz) SOL NE FRAIT TOD 7.71 49.6 10584 AAE SOL NE (PC PORTM, LER, 20MHz, OPEK, 60Hz) SOL NE FRAIT TOD 7.84 49.8 10584 AAE		0	Occurrent autom Name		PAR (dB)	Unc ^E $k = 2$
TOBD AME DS NR (CP-OPM, IRB, 10MHz, OPEK, 60H4) So NR RFIT TOD 7.73 49.6 10831 AAD SO NR (CP-OPM, IRB, 10MHz, OPEK, 60H4) SO NR RFIT TOD 7.73 49.6 10832 AAD SO NR (CP-OPM, IRB, 20MHz, OPEK, 60H4) SO NR RFIT TOD 7.73 49.6 10834 AAD SO NR (CP-OPM, IRB, 20MHz, OPEK, 60H4) SO NR RFIT TOD 7.70 49.6 10845 AAT SO NR (CP-OPM, IRB, 20MHz, OPEK, 60H4) SO NR RFIT TOD 7.70 49.6 10856 AAT SO NR (CP-OPM, IRB, 20MHz, OPEK, 60H4) SO NR RFIT TOD 7.70 49.6 10867 AAT SO RR (CP-OPM, IRB, 20MHz, OPEK, 60H4) SO NR FIT TOD 7.77 49.6 10864 AAT SO RR (CP-OPM, IRB, 20MHz, OPEK, 60H4) SO NR FIT TOD 7.77 49.6 10864 AAT SO RR (CP-OPM, IRB, 20MHz, OPEK, 60H4) SO NR FIT TOD 7.77 49.6 10864 AAT SO RR (CP-OPM, IRB, 20MHz, OPEK, 60H4) SO NR FIT TOD 8.4 4.4 4.55.0 10864 AAT SO RR (CP-OP	UID	Rev	Communication System Name	Group		
Linest AD GS ARI (CP OPDM, I RB, 16ML, OPEK, 60H4) So NR FIT TDD 7.74 4:96 10821 ALE So NR FIT TDD 7.74 4:96 10824 ALE So NR FIT TDD 7.74 4:96 10824 ALE So NR FIT TDD 7.74 4:86 10824 ALE SO NR (CP OPDM, 1 RB, 20ML; QPEK, 60H4) SO NR FIT TDD 7.74 4:86 10824 ALE SO NR (CP OPDM, 1 RB, 20ML; QPEK, 60H4) SO NR FIT TDD 7.78 4:86 10824 ALE SO NR (CP OPDM, 1 RB, 20ML; QPEK, 60H4) SO NR FIT TDD 7.78 1:86 10835 ALE SO NR (CP OPDM, 1 RB, 20ML; QPEK, 60H4) SO NR FIT TDD 7.71 1:85 10844 ALE SO NR (CP OPDM, SO'R, BL, 20ML; QPEK, 60H4) SO NR FIT TDD 7.71 1:85 10845 ALE SO NR (CP OPDM, SO'R, BL, 20ML; QPEK, 60H4) SO NR FIT TDD 5.94 1:86 10846 ALE SO NR (CP OPDM, SO'R, BL, 20ML; QPEK, 60H4) SO NR FIT TDD 5.94 1:86 10847 ALE						
Tobas AAE SG NN FPH TOD T74 4:9.6 TOBAS AAD SG NN FPH TOD T74 4:9.6 TOBAS AAD SG NN FPH TOD T75 4:9.6 TOBAS AAD SG NN FPH TOD T75 4:9.6 TOBAS AAE SG NN FPH TOD T76 4:9.6 TOBAS AAE SG NN FPH TOD T76 4:9.6 TOBAS AAE SG NN FPH TOD T70 4:9.6 TOBAS AAE SG NN FPH TOD T00 7.7 4:9.6 TOBAS AAD SG NN FPH TOD T00 7.7 4:9.6 TOBAS AAD SG NN FPH TOD SG NN FPH TOD 3.4 4:9.6 TOBAS					_	
10835 AAD 5G NR FPT TDD 770 949 10836 AAZ 5G NR (PC) PCPM, FB, 30 MHz, OPSK, 60 HJ; 5G NR FPT TDD 775 949 10836 AAZ 5G NR (PC) PCPM, FB, 30 MHz, OPSK, 60 HJ; 5G NR FPT TDD 776 949 10836 AAZ 5G NR (PC) PCPM, FB, 50 MHz, OPSK, 60 HJ; 5G NR FPT TDD 776 196 10837 AAZ 5G NR (PC) PCPM, FB, 50 MHz, OPSK, 60 HJ; 5G NR FPT TDD 770 196 10848 AAZ 5G NR (PC) PCPM, FB, 100 MHz, OPSK, 60 HJ; 5G NR FPT TDD 770 196 10844 AAZ 5G NR (PC) PCPM, 50 KF, 80 HHz, OPSK, 60 HJ; 5G NR FPT TDD 194 98 10844 AAZ 5G NR (PC) PCPM, 50 KF, 80 HHz, OPSK, 60 HHz) 5G NR FPT TDD 844 9.6 10846 AAZ 5G NR (PC) PCPM, 50 KF, 80 HHz, OPSK, 60 HHz) 5G NR FPT TDD 844 9.6 10846 AAZ 5G NR (PC) PCPM, 50 KF, 80 HHz, OPSK, 60 HHz) 5G NR FPT TDD 8.4 9.6 10846 AAZ 5G NR (PC) PCPM, 100 KF, 81, 00 MHz, OPSK, 60 HHz) 5G NR						
Dass AAE SG NR (PC)-OPGM, FB, 30HHz, OPSK, 60H-h2) SG NR FF1 TDD 775 99.6 Doss AAE SG NR (PC)-OPGM, FB, 30HHz, OPSK, 60H-h2) SG NR FF1 TDD 7.88 4.96 Doss AAE SG NR (PC)-OPGM, FB, 30HHz, OPSK, 80H-h2) SG NR FF1 TDD 7.88 4.96 Doss AAE SG NR (PC)-OPGM, FB, 30HHz, OPSK, 80H-h2) SG NR FF1 TDD 7.70 4.96 Doss AAE SG NR (PC)-OPGM, FB, 30HHz, OPSK, 80H-h2) SG NR FF1 TDD 7.71 4.96 Doss AAE SG NR (PC)-OPGM, SSR B1, 55HHz, OPSK, 60H-h2) SG NR FF1 TDD 8.44 4.96 Dose AAE SG NR (PC)-OPGM, SSR B1, 55HHz, OPSK, 60H-h2) SG NR FF1 TDD 8.44 4.96 Dose AAE SG NR (PC)-OPGN, 40%, FB, 30HHz, OPSK, 60H+12 SG NR FF1 TDD 8.44 4.96 Dose AAE SG NR (PC)-OPGN, 40%, FB, 30HHz, OPSK, 60H+12 SG NR FF1 TDD 8.44 4.96 Dose AAD SG NR (PC)-OPGN, 40%, FB, 30HHz, OPSK, 60H+12 SG NR FF1 TDD 8.36 4.96 Dose AAD S						
10855 AAP SQ NR (DO PORM, 1 RB, JOHL), OPSK, 60H4) ISG NR AP FH TDD 770 19.0 10857 AAP SG NR (DO PORM, 1 RB, SOHL), OPSK, 60H4) ISG NR FH TDD 770 19.0 10837 AAP SG NR (DO PORM, 1 RB, SOHL), OPSK, 60H4) ISG NR FH TDD 770 19.0 10849 AAP SG NR (DO PORM, 1 RB, JOHL), OPSK, 60H4) ISG NR FH TDD 7.71 19.6 10841 AAP SG NR (DO PORM, 1 RB, JOHL), OPSK, 60H4) ISG NR FH TDD 8.49 19.6 10844 AAP SG NR (DO PORM, SOFR RB, JOHL), OPSK, 60H4) ISG NR FH TDD 8.44 19.6 10844 AAP SG NR (DO PORM, SOFR RB, JOHL), OPSK, 60H4) ISG NR FH TDD 8.44 19.6 10854 AAP SG NR (DO PORM, 100% RB, JOHLA, OPSK, 60H4) ISG NR FH TDD 8.44 19.6 10854 AAP SG NR (DO PORM, 100% RB, JOHLA, OPSK, 60H4) ISG NR FH TDD 8.34 19.6 10854 AAP SG NR (DO PORM, 100% RB, JOHLA, OPSK, 60H4) ISG NR FH TDD 8.34 19.6 10856 AAP SO N			· · · · · · · · · · · · · · · · · · ·			
TOASE ALE 5G NN FFT TDD 766 19.9 TOAST AAF 5G NN (PC)-OFDM, 118, 50 MHz, OPSK, 60 Hz) 5G NN FFT TDD 7.70 19.6 TOASA AAF 5G NN (PC)-OFDM, 118, 50 MHz, OPSK, 60 Hz) 5G NN FFT TDD 7.70 19.6 TOASA AAF 5G NN (PC)-OFDM, 118, 100 MHz, OPSK, 60 Hz) 5G NN FFT TDD 7.71 19.6 TOASA AAF 5G NN (PC)-OFDM, 56% FB, 15 MHz, OPSK, 60 Hz) 5G NN FFT TDD 8.44 19.6 TOASA AAF 5G NN (PC)-OFDM, 56% FB, 20 Hz, OPSK, 50 Hz) 5G NN FFT TDD 8.44 19.6 TOASA AAF 5G NN (PC)-OFDM, 50% FB, 20 Hz, OPSK, 50 Hz) 5G NN FFT TDD 8.34 19.6 TOASA AAF 5G NN (PC)-OFDM, 100% FB, 20 MHz, OPSK, 50 Hz) 5G NN FFT TDD 8.34 19.6 TOASA AAF 5G NN (PC)-OFDM, 100% FB, 20 MHz, OPSK, 50 Hz) 5G NN FFT TDD 8.34 19.6 TOASA AAF 5G NN (PC)-OFDM, 100% FB, 20 MHz, OPSK, 50 Hz) 5G NN FFT TDD 8.34 19.6 TOASA AAF 5G NN (PC)-OFDM, 100% FB, 20 MHz, OPSK,					-	
10827 AAP 5G NR (CPOPTM, 1 BB, 30HL; CPSK, 60H-b) 5G NR FFT TDD 7.86 9.95 10860 AAP 5G NR (CPOPTM, 1 BB, 30HL; CPSK, 60H-b) 5G NR FFT TDD 7.87 1.96 10841 AAP 5G NR (CPOPTM, 1 BB, 30HL; CPSK, 60H-b) 5G NR FFT TDD 8.49 1.96 10841 AAP 5G NR (CPOPTM, 1 BB, 30HL; CPSK, 60H-b) 5G NR FFT TDD 8.44 1.96 10844 AAP 5G NR (CPOPTM, 50%, FB, 20HL; CPSK, 60H-b) 5G NR FFT TDD 8.44 1.96 10844 AAP 5G NR (CPOPTM, 50%, FB, 20HL; CPSK, 60H-b) 5G NR FFT TDD 8.44 1.96 10854 AAP 5G NR (CPOPTM, 100%, FB, 20HL; CPSK, 60H-b) 5G NR FFT TDD 8.34 1.96 10856 AAP 5G NR (CPOPTM, 100%, FB, 20HL; CPSK, 60H+b) 5G NR FFT TDD 8.34 1.96 10856 AAP 5G NR (CPOPTM, 100%, FB, 20HL; CPSK, 60H+b) 5G NR FFT TDD 8.34 1.96 10856 AAP 5G NR (CPOPTM, 100%, FB, 20HL; CPSK, 60H+b) 5G NR FFT TDD 8.44 1.96 10856 AAP 5G NR (-					
Tensor ARF TO IN THE SO HAL (OPER) (Solve) SO IN R FRF1 TOD 7.70 ±9.8 Togeta ARF SO IN R (OP-DEPM, 1 RB, TOMUL, OPEK, GOH4) SO IN R FRF1 TOD 7.71 ±9.8 Togeta ARF SO IN R (OP-DEPM, 1 RB, TOMUL, OPEK, GOH4) SO IN R FRF1 TOD 8.34 ±9.8 Togeta ARF SO IN R (OP-DEPM, 50% RB, TSM-K, OPEK, GOH4) SO IN R FRF1 TOD 8.34 ±9.8 Togeta ARF SO IN (OP-DEPM, 50% RB, 20 MH2, OPEK, GOH4) SO IN R FRF1 TOD 8.34 ±9.8 Togeta ARF SO IN (OP-DEPM, 100% RB, 20 MH2, OPEK, GOH4) SO IN R FRF1 TOD 8.34 ±9.8 Togeta ARF SO IN (OP-DEPM, 100% RB, 20 MH2, OPEK, GOH4) SO IN R FRF1 TOD 8.35 ±9.8 Togeta ARF SO IN (OP-DEPM, 100% RB, 20 MH2, OPEK, GOH4) SO IN R FRF1 TOD 8.34 ±9.8 Togeta ARF SO IN (OP-DEPM, 100% RB, 20 MH2, OPEK, GOH4) SO IN R FRF1 TOD 8.34 ±9.8 Togeta ARF SO IN (OP-DEPM, 100% RB, 20 MH2, OPEK, GOH4) SO IN R FRF1 TOD 8.41 ±9.8 T						
10640 ARE 5C NR (CP-DFDM, 1 FB, 20 MHz, CPSK, 60 MHz) 5C NR FR1 TOD 7.77 149.6 10641 AAF 5C NR (CP-DFDM, 50% RB, 15 MHz, CPSK, 60 MHz) 5C NR FR1 TOD 8.49 149.6 10644 AAE 5C NR (CP-DFDM, 50% RB, 20 MHz, CPSK, 60 MHz) 5C NR FR1 TOD 8.41 149.6 10644 AAE 5C NR (CP-DFDM, 50% RB, 20 MHz, CPSK, 60 HHz) 5C NR FR1 TOD 8.41 149.8 10645 AAE 5C NR (CP-DFDM, 100% RB, 10 MHz, CPSK, 60 HHz) 5C NR FR1 TOD 8.34 149.8 10655 AAE 5C NR (CP-DFDM, 100% RB, 20 MHz, CPSK, 60 HHz) 5C NR FR1 TOD 8.35 49.6 10655 AAE 5C NR (CP-DFDM, 100% RB, 20 MHz, CPSK, 60 HHz) 5C NR FR1 TOD 8.36 49.8 10655 AAE 5C NR (CP-DFDM, 100% RB, 20 MHz, CPSK, 60 HHz) 5C NR FR1 TOD 8.44 49.8 10656 AAE 5C NR (CP-DFDM, 100% RB, 20 MHz, CPSK, 60 HHz) 5C NR FR1 TOD 8.44 49.8 10657 AAF 5C NR (CP-DFDM, 100% RB, 20 MHz, CPSK, 60 HHz) 5C NR FR1 TOD 8.44 49.8 1065					7.70	±9.6
TOBUL APE SO NR (CP-DEDK, TRE, TOUMHZ, CPSK, GONH2) SO NR FEIT TOD 8.49 49.61 10444 AAE SO NR (CP-DEDK, 50% RE, TSM-K, CPSK, GONH2) SO NR FEIT TOD 8.34 49.61 10344 AAE SO NR (CP-DEDK, 50% RE, SOMH2, CPSK, GONH2) SO NR FEIT TOD 8.34 49.61 10345 AAE SO NR (CP-DEDK, 100% RE, SOMH2, CPSK, GONH2) SO NR FEIT TOD 8.34 49.61 10355 AAE SO NR (CP-DEDK, 100% RE, SOMH2, CPSK, GONH2) SO NR FEIT TOD 8.34 49.6 10355 AAE SO NR (CP-DEDK, 100% RE, SOMH2, CPSK, GONH2) SO NR FEIT TOD 8.35 49.6 10356 AAE SO NR (CP-DEDK, 100% RE, SOMH4, CPSK, GONH2) SO NR FEIT TOD 8.34 49.6 10356 AAE SO NR (CP-DEDK, 100% RE, SOMH4, CPSK, GONH2) SO NR FEIT TOD 8.34 49.6 10356 AAE SO NR (CP-DEDK, 100% RE, SOMH4, CPSK, GONH2) SO NR FEIT TOD 8.34 49.6 10356 AAE SO NR (CP-DEDK, 100% RE, SOMH4, CPSK, GONH2) SO NR FEIT TOD 8.34 49.6 10365				5G NR FR1 TDD	7.67	±9.6
Tobada AAD SO NR (CP-DENK, 50% RE, 20MHz, OPSK, GOMHz) SO NR FR1 TOD 8.49 ±9.6 TOBADA AAE SO NR (CP-DENK, 50%, RE, 20MHz, OPSK, GOMHz) SO NR FR1 TOD 8.41 ±9.6 TOBADA AAE SO NR (CP-DENK, 50%, RE, 20MHz) SO NR FR1 TOD 8.34 ±9.6 TOBADA AAE SO NR (CP-DENK, 100% RE, 10MHz, OPSK, GOHHz) SO NR FR1 TOD 8.36 ±9.6 TOBADA SO NR (CP-DENK, 100% RE, 20MHz, OPSK, GOHHz) SO NR FR1 TOD 8.35 ±9.6 TOBADA SO NR (CP-DENK, 100% RE, 20MHz, OPSK, GOHHz) SO NR FR1 TOD 8.35 ±9.6 TOBADA SO NR (CP-DENK, 100% RE, 20MHz, OPSK, GOHHz) SO NR FR1 TOD 8.34 ±9.6 TOBADA AAF SO NR (CP-DENK, 100% RE, 20MHz, OPSK, GOHHz) SO NR FR1 TOD 8.34 ±9.6 TOBADA AAF SO NR (CP-DENK, 100% RE, 20MHz, OPSK, GOHHz) SO NR FR1 TOD 8.34 ±9.6 TOBADA AAF SO NR (CP-DENK, 100% RE, 20MHz, OPSK, GOHHz) SO NR FR1 TOD 8.34 ±9.6 TOBADA AAF SO NR (CP-DENK, 100% RE, 20MHz, OPSK, GOHHz)<				5G NR FR1 TDD	7.71	±9.6
10844 AAE 5G NH (CP-OFDM, 50% BB, 20 MHz, OPSK, 60 HHz) 5G NH FRI TDD 8.41 9.6 10865 AAE 5G NH (CP-OFDM, 100% BB, 10 MHz, OPSK, 60 HHz) 5G NH FRI TDD 8.41 9.6 10855 AAD 5G NH (CP-OFDM, 100% BB, 10 MHz, OPSK, 60 HHz) 5G NH FRI TDD 8.34 9.86 10857 AAD 5G NH (CP-OFDM, 100% BB, 20 MHz, OPSK, 60 HHz) 5G NH FRI TDD 8.37 4.96 10857 AAD 5G NH (CP-OFDM, 100% BB, 20 MHz, OPSK, 60 HHz) 5G NH FRI TDD 8.36 4.96 10858 AAF 5G NH (CP-OFDM, 100% BB, 20 MHz, OPSK, 60 HHz) 5G NH FRI TDD 8.34 4.96 10858 AAF 5G NH (CP-OFDM, 100% BB, 20 MHz, OPSK, 60 HHz) 5G NH FRI TDD 8.41 4.96 10851 AAF 5G NH (CP-OFDM, 100% BB, 20 MHz, OPSK, 60 HHz) 5G NH FRI TDD 8.41 4.96 10851 AAF 5G NH (CP-OFDM, 100% BB, 20 MHz, OPSK, 60 Hz) 5G NH FRI TDD 8.41 4.96 10861 AAF 5G NH (CP-OFDM, 100% BB, 20 MHz, OPSK, 60 Hz) 5G NH FRI TDD 8.41 4.96 10865 <td></td> <td>AAD</td> <td></td> <td>5G NR FR1 TDD</td> <td>8.49</td> <td>±9.6</td>		AAD		5G NR FR1 TDD	8.49	±9.6
10646 AAE 5G NH (CP-OPEM, 100% RB, 100Hk2, OPSK, 60Hk2) 5G NN FPH TDD 8.41 +9.6 10655 AAD 5G NH (CP-OPEM, 100% RB, 100Hk2, OPSK, 60Hk2) 5G NN FPH TDD 8.34 +9.6 10855 AAD 5G NH (CP-OPEM, 100% RB, 20Hk2, OPSK, 60Hk2) 5G NN FPH TDD 8.35 +9.6 10855 AAD 5G NH (CP-OPEM, 100% RB, 20Hk2, OPSK, 60Hk2) 5G NN FPH TDD 8.35 +9.6 10856 AAF 5G NH (CP-OPEM, 100% RB, 20 Mk2, OPSK, 60Hk2) 5G NN FPH TDD 8.34 +9.6 10856 AAF 5G NH (CP-OPEM, 100% RB, 20 Mk2, OPSK, 60Hk2) 5G NH FPH TDD 8.41 +9.6 10861 AAF 5G NH (CP-OPEM, 100% RB, 20 Mk2, OPSK, 60 kH2) 5G NH FPH TDD 8.41 +9.6 10862 AAF 5G NH (CP-OPEM, 100% RB, 20 Mk2, OPSK, 60 kH2) 5G NH FPH TDD 8.41 +9.6 10864 AAF 5G NH (CP-OPEM, 100% RB, 100 Mk4, OPSK, 60 kH2) 5G NH FPH TDD 8.41 +9.6 10864 SG NH (CP-OPEM, 100% RB, 100 Mk4, OPSK, 60 kH2) 5G NH FPH TDD 8.41 +9.6 10868 AAF <td></td> <td></td> <td></td> <td>5G NR FR1 TDD</td> <td>8.34</td> <td>±9.6</td>				5G NR FR1 TDD	8.34	±9.6
10655 AAE 5G NH (CP-OPEM, 100% RB, 10MHz, OPSK, 60Hz) 5G NN FRH TDD 8.34 9.96 10655 AAE 5G NH (CP-OPEM, 100% RB, 10MHz, OPSK, 60Hz) 5G NN FRH TDD 8.37 4.96 10655 AAE 5G NR (CP-OPEM, 100% RB, 20MHz, OPSK, 60Hz) 5G NN FRH TDD 8.35 4.96 10655 AAE 5G NR (CP-OPEM, 100%, RB, 30 MHz, OPSK, 60 Hz) 5G NN FRH TDD 8.34 4.96 10650 AAE 5G NR (CP-OPEM, 100%, RB, 50 MHz, OPSK, 60 Hz) 5G NN FRH TDD 8.44 4.96 10660 AAE 5G NR (CP-OPEM, 100%, RB, 50 MHz, OPSK, 60 Hz) 5G NN FRH TDD 8.44 4.96 10661 AAF 5G NR (CP-OPEM, 100%, RB, 50 MHz, OPSK, 60 Hz) 5G NN FRH TDD 8.41 4.96 10665 AAF 5G NR (CP-OPEM, 100%, RB, 50 MHz, OPSK, 50 Hz) 5G NN FRH TDD 8.41 4.96 10666 AAF 5G NR (CP-OPEM, 100%, RB, 100 MHz, OPSK, 50 Hz) 5G NR FRH TDD 5.68 4.96 10668 AAF 5G NR (CP-OPEM, 100%, RB, 100 MHz, OPSK, 50 Hz) 5G NR FRH TDD 5.68 4.96 10668	10846	AAE		5G NR FR1 TDD	8.41	±9.6
TOBSE AAE SC NR ICP-OFDM, 100% RB, 20 MHz, OPSK, 06 MHz) SC NN FINI TOD 8.37 4.96 TOBST AAD SG NN FICP-OFDM, 100% RB, 20 MHz, OPSK, 06 MHz) SG NN FFN TDD 8.36 4.96 TOBST AAD SG NN FICP-OFDM, 100% RB, 20 MHz, OPSK, 06 MHz) SG NN FFN TDD 8.34 ±9.6 TOBSG AAF SG NN FICP-OFDM, 100% RB, 20 MHz, OPSK, 06 MHz) SG NN FFN TDD 8.41 ±9.6 TOBSG AAF SG NN FICP-OFDM, 100% RB, 20 MHz, OPSK, 06 MHz) SG NN FFN TDD 8.41 ±9.6 TOBSG AAF SG NN FICP-OFDM, 100% RB, 20 MHz, OPSK, 06 MHz) SG NN FFN TDD 8.41 ±9.6 TOBSG AAF SG NN FICP-OFDM, 100% RB, 100 MHz, OPSK, 06 MHz) SG NN FFN TDD 8.41 ±9.6 TOBSG AAF SG NN FICP-OFDM, 100% RB, 100 MHz, OPSK, 06 MHz) SG NN FFN TDD 8.41 ±9.6 TOBSG AAF SG NN FICP-OFDM, 100% RB, 100 MHz, OPSK, 08 MHz) SG NN FFN TDD 5.84 ±9.6 TOBSG AAF SG NN FICP-OFDM, 100% RB, 100 MHz, OPSK, 120 HHz) SG NN FFN TDD 5.57 ±9.6		AAE		5G NR FR1 TDD	8.34	±9.6
TOBSE TAD SG NR (CP-CPUX, 100%, RB, 20 MHz, OPSK, 60 MHz) SG NN FR1 TDD 8.35 19.8 TOBSE AAE SG NN FCP-CPUX, 100%, RB, 20 MHz, OPSK, 60 MHz) SG NN FR1 TDD 8.34 19.6 TOBSE AAF SG NN FCP-CPUX, 100%, RB, 20 MHz, OPSK, 60 Hz) SG NN FR1 TDD 8.41 4.9.6 TOBSE AAF SG NN FCP-CPUX, 100%, RB, 50 MHz, OPSK, 60 Hz) SG NN FR1 TDD 8.41 4.9.6 TOBSE AAF SG NN FCP-CPUN, 100%, RB, 50 MHz, OPSK, 60 Hz) SG NN FR1 TDD 8.41 4.9.6 TOBSE AAF SG NN FCP-CPUN, 100%, RB, 50 MHz, OPSK, 60 Hz) SG NN FR1 TDD 8.41 4.9.6 TOBSE AAF SG NN FCP-CPUN, 100%, RB, 100 MHz, OPSK, 50 Hz) SG NN FR1 TDD 5.41 4.9.6 TOBSE AAF SG NN FCP-CPUN, 100%, RB, 100 MHz, OPSK, 50 Hz) SG NN FR1 TDD 5.58 4.9.6 TOBSE AAF SG NN FCP-CPUN, 100%, RB, 100 MHz, OPSK, 120 Hz) SG NN FR1 TDD 5.56 4.9.6 TOBSE AAF SG NN FCP-CPUN, 100%, RB, 100 MHz, OPSK, 120 Hz) SG NN FR2 TDD 5.56 4.9.6	10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
TOBSE AAE STATU S	10856	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
TOBSO AAF SG NR ICP-DEDM, 100%, RB, 40 MHz, OPSK, 60 HHz) SG NR FRI TDD 8.34 1.96 TOBSO AAF SG NR ICP-DEDM, 100%, RB, 50 MHz, OPSK, 60 HHz) SG NR FRI TDD 8.44 1.96 TOBSO AAF SG NR ICP-DEDM, 100%, RB, 60 MHz, OPSK, 60 HHz) SG NR FRI TDD 8.44 1.96 TOBSO AAF SG NR ICP-DEDM, 100%, RB, 60 MHz, OPSK, 60 HHz) SG NR FRI TDD 8.41 4.9.8 TOBSO AAF SG NR ICP-COEM, 100%, RB, 100 MHz, OPSK, 60 HHz) SG NR FRI TDD 8.41 4.9.8 TOBSO AAF SG NR ICP-SCPEM, 100%, RB, 100 MHz, OPSK, 60 HHz) SG NR FRI TDD 5.84 9.8.9 TOBSO AAF SG NR ICPT-SCPEM, 100 MHz, OPSK, 120 HHz) SG NR FRI TDD 5.58 4.9.6 TOBSO AAE SG NR ICPT-SCPEM, 100 MHz, OPSK, 120 HHz) SG NR FRE TDD 5.56 4.9.6 TOBSO AAE SG NR ICPT-SCPEM, 100 MHz, OPSK, 120 HHz) SG NR FRE TDD 5.56 4.9.6 TOBSO AAE SG NR ICPT-SCPEM, 100 MHz, OPSK, 120 HHz) SG NR FRE TDD 5.54 4.9.6 TOBSO </td <td>10857</td> <td>AAD</td> <td>5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)</td> <td>5G NR FR1 TDD</td> <td>8.35</td> <td>±9.6</td>	10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6
10655 AAF SG NR (CP-CFDM, 100% RB, 60 MHz, CPSK, 60 MHz) SG NR (FH TOD 8.44 49.6 10868 AAF SG NR (CP-CFDM, 100% RB, 60 MHz, CPSK, 60 MHz) SG NR FR1 TOD 8.41 49.6 10881 AAF SG NR (CP-CFDM, 100% RB, 60 MHz, CPSK, 60 MHz) SG NR FR1 TOD 8.41 49.6 10884 AAF SG NR (CP-CFDM, 100% RB, 100 MHz, CPSK, 60 MHz) SG NR FR1 TDD 8.41 49.6 10885 AAF SG NR (CP-CFDM, 100% RB, 100 MHz, QPSK, 60 MHz) SG NR FR1 TDD 8.41 49.6 10886 AAF SG NR (DFT-CFDM, 100% RB, 100 MHz, QPSK, 50 MHz) SG NR FR1 TDD 5.68 49.6 10886 AAF SG NR (DFT-CFDM, 100% RB, 100 MHz, QPSK, 120 HHz) SG NR FR1 TDD 5.86 49.6 10871 AAE SG NR (DFT-CFDM, 100% RB, 100 MHz, QPSK, 120 HHz) SG NR FR1 TDD 5.86 49.6 10872 AAE SG NR (DFT-CFDM, 100% RB, 100 MHz, QPSK, 120 HHz) SG NR FR2 TDD 5.58 49.6 10873 AAE SG NR (DFT-CFDM, 100% RB, 100 MHz, QPSK, 120 HHz) SG NR FR2 TDD 5.55 49.6	·	AAE		5G NR FR1 TDD	8.36	±9.6
10881 AAF 5G NR [CP-OFDM, 100% RB, 50 MHz, OPSK, 50 MHz) 5G NR FR1 TDD 8.41 ±9.6 10883 AAF 5G NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 60 Hz) 5G NR FR1 TDD 8.41 ±9.6 10884 AAF 5G NR (CP-OFDM, 100% RB, 100 MHz, OPSK, 60 Hz) 5G NR FR1 TDD 8.41 ±9.6 10886 AAF 5G NR (DFTs-OFDM, 100% RB, 100 MHz, OPSK, 60 Hz) 5G NR FR1 TDD 5.68 ±9.6 10886 AAF 5G NR (DFTs-OFDM, 100% RB, 100 MHz, OPSK, 30 Hz) 5G NR FR1 TDD 5.58 ±9.6 10887 AAE 5G NR (DFTs-OFDM, 100, 100% RB, 100 MHz, OPSK, 120 Hz) 5G NR FR2 TDD 5.75 ±9.6 10871 AAE 5G NR (DFTs-OFDM, 108, 100 MHz, OPSK, 120 Hz) 5G NR FR2 TDD 5.75 ±9.6 10872 AAE 5G NR (DFTs-OFDM, 100% RB, 100 MHz, OPSK, 120 Hz) 5G NR FR2 TDD 5.75 ±9.6 10872 AAE 5G NR (DFTs-OFDM, 100% RB, 100 MHz, OPSK, 120 Hz) 5G NR FR2 TDD 5.75 ±9.6 10872 AAE 5G NR (DFTs-OFDM, 108, RB, 100 MHz, OPSK, 120 Hz) 5G NR FR2 TDD 5.75 ±9.6 <	10859	AAF		5G NR FR1 TDD	8.34	±9.6
10853 AAF 50 NR [CP-OFDM, 100% RB, 80 MHz, OPSK, 60 KHz] 5G NN FR1 TDD 8.37 ±9.6 10864 AAE 5G NR [CP-OFDM, 100% RB, 80 MHz, OPSK, 60 KHz] 5G NN FR1 TDD 8.37 ±9.6 10868 AAF 5G NR [CP-OFDM, 100% RB, 100 MHz, OPSK, 30 KHz] 5G NN FR1 TDD 8.41 ±9.6 10868 AAF 5G NR [CP-SOFDM, 100% RB, 100 MHz, OPSK, 30 KHz] 5G NN FR1 TDD 5.68 ±9.6 10880 AAE 5G NN [CP-SOFDM, 100% RB, 100 MHz, OPSK, 120 KHz] 5G NN FR2 TDD 5.66 ±9.6 10872 AAE 5G NN [CP-SOFDM, 107% RB, 100 MHz, 160 AM, 120 KHz] 5G NN FR2 TDD 5.65 ±9.6 10872 AAE 5G NN [CP-SOFDM, 118, 100 MHz, 160 AM, 120 KHz] 5G NN FR2 TDD 5.66 ±9.6 10872 AAE 5G NN [CP-SOFDM, 118, 100 MHz, 160 AM, 120 KHz] 5G NN FR2 TDD 7.78 ±9.6 10874 AAE 5G NN [CP-FOPM, 118, 100 MHz, 02 KK, 120 KHz] 5G NN FR2 TDD 7.78 ±9.6 10875 AAE 5G NN [CP-FOPM, 118, 100 MHz, 02 KK, 120 KHz] 5G NN FR2 TDD 7.78 ±9.6	10860	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10864 AAE SG NR (CP-OFDM, 100% RB, 00 MHz, OPSK, 60 KHz) SG NR FR1 TDD 8.37 ±9.6 10865 AAF SG NR (CP-OFDM, 100% RB, 100 MHz, OPSK, 80 KHz) SG NR FR1 TDD 5.68 ±9.6 10868 AAF SG NR (DFTs-OFDM, 18R, 100 MHz, OPSK, 30 KHz) SG NR FR1 TDD 5.68 ±9.6 10868 AAF SG NR (DFTs-OFDM, 18R, 100 MHz, OPSK, 120 Hz) SG NR FR1 TDD 5.68 ±9.6 10870 AAE SG NR (DFTs-OFDM, 18R, 100 MHz, CPSK, 120 Hz) SG NR FR2 TDD 5.86 ±9.6 10872 AAE SG NR (DFTs-OFDM, 108, RB, 100 MHz, 102 KHz) SG NR FR2 TDD 5.86 ±9.6 10872 AAE SG NR (DFTs-OFDM, 100% RB, 100 MHz, 102 KHz) SG NR FR2 TDD 6.61 ±9.6 10873 AAE SG NR (DFTs-OFDM, 100% RB, 100 MHz, 040 AM, 120 KHz) SG NR FR2 TDD 6.61 ±9.6 10874 AAE SG NR (DFTs-OFDM, 100% RB, 100 MHz, 040 AM, 120 KHz) SG NR FR2 TDD 7.78 ±9.6 10874 AAE SG NR (CP-OFDM, 100% RB, 100 MHz, 040 AM, 120 KHz) SG NR FR2 TDD 7.95 ±9.6	10861	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	±9.6
10885 AF 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 KHz) 5G NR [FR1 TDD 8.41 ±9.6 10866 AF 5G NR (DFT-6-OFDM, 100% RB, 100 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 5.68 ±9.6 10888 AAF 5G NR (DFT-6-OFDM, 100% RB, 100 MHz, QPSK, 120 KHz) 5G NR FR1 TDD 5.75 ±9.6 10870 AAE 5G NR (DFT-6-OFDM, 100% RB, 100 MHz, QPSK, 120 KHz) 5G NR FR2 TDD 5.75 ±9.6 10871 AAE 5G NR (DFT-6-OFDM, 178, 100 MHz, QPSK, 120 KHz) 5G NR FR2 TDD 5.75 ±9.6 10872 AAE 5G NR (DFT-6-OFDM, 178, 100 MHz, 160 AM, 120 KHz) 5G NR FR2 TDD 6.61 ±9.6 10873 AAE 5G NR (DFT-6-OFDM, 178, 100 MHz, QPSK, 120 KHz) 5G NR FR2 TDD 6.62 ±9.6 10876 AAE 5G NR (CF-0FDM, 100%, RB, 100 MHz, QPSK, 120 KHz) 5G NR FR2 TDD 6.82 ±9.6 10876 AAE 5G NR (CP-OFDM, 100%, RB, 100 MHz, QPSK, 120 KHz) 5G NR FR2 TDD 8.39 ±9.6 10876 AAE 5G NR (CP-OFDM, 100%, RB, 100 MHz, QPSK, 120 KHz) 5G NR FR2 TDD 8.49.6 10881	10863	AAF	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10886 AAF 5G NR (DFTs-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, QPSK, 120 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, QPSK, 120 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, QPSK, 120 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, QPSK, 120 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, QPSK, 120 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 105 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 105 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 105 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 102 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 102 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 102 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 102 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 102 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 20 PSK, 120 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 0PSK, 120 Hz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 0PSK, 120 Hz) 5G NR (DFTS TDD 7.78 ±9.6 10875 AAE 5G NR (CP-OFDM, 100% RB, 100 MHz, 0PSK, 120 Hz) 5G NR (DFTS TDD 7.78 ±9.6 10877 AAE 5G NR (CP-OFDM, 100% RB, 100 MHz, 0PSK, 120 Hz) 5G NR (DFTS TDD 8.41 ±9.6 10878 AAE 5G NR (CP-OFDM, 100% RB, 100 MHz, 40 AAM, 120 Hz) 5G NR (DFTS TDD 8.41 ±9.6 10879 AAE 5G NR (DFTS OFDM, 118, 50 MHz, 20 Kz) 5G NR (DTS	10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10888 AAF SG NR (DFTs-OFDM, 100% FB, 100 MHz, QFSK, 30 KHz) SG NR FR1 TDD 5.89 ±9.6 10889 AAE SG NR (DFTs-OFDM, 100% FB, 100 MHz, QFSK, 120 KHz) SG NR FR2 TDD 5.75 ±9.6 10870 AAE SG NR (DFTs-OFDM, 100% RB, 100 MHz, QFSK, 120 KHz) SG NR FR2 TDD 5.75 ±9.6 10871 AAE SG NR (DFTs-OFDM, 100% RB, 100 MHz, QFSK, 120 KHz) SG NR FR2 TDD 5.75 ±9.6 10873 AAE SG NR (DFTs-OFDM, 100% RB, 100 MHz, 160 AM, 120 KHz) SG NR FR2 TDD 6.61 ±9.8 10873 AAE SG NR (DFTs-OFDM, 118, 100 MHz, QFSK, 120 KHz) SG NR FR2 TDD 6.65 ±9.6 10875 AAE SG NR (CP-OFDM, 118, 100 MHz, QFSK, 120 KHz) SG NR FR2 TDD 8.39 ±9.6 10876 AAE SG NR (CP-OFDM, 118, 100 MHz, QFSK, 120 KHz) SG NR FR2 TDD 8.41 ±9.6 10878 AAE SG NR (CP-OFDM, 108% RB, 100 MHz, QFSK, 120 KHz) SG NR FR2 TDD 8.41 ±9.6 10879 AAE SG NR (CP-OFDM, 108% RB, 100 MHz, QFSK, 120 KHz) SG NR FR2 TDD 8.41 ±9.6	10865	AAF	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10869 AAE 5G NR (DFTs-OFDM, 1 BE, 100 MHz, QPSK, 120 HHz) 5G NR FR2 TDD 5.75 ±9.6 10870 AAE 5G NR (DFTs-OFDM, 1BR, 100 MHz, QPSK, 120 KHz) 5G NR FR2 TDD 5.86 ±9.6 10871 AAE 5G NR (DFTs-OFDM, 1BR, 100 MHz, 100 AM, 120 KHz) 5G NR FR2 TDD 6.575 ±9.6 10872 AAE 5G NR (DFTs-OFDM, 1BR, 100 MHz, 0AM, 120 KHz) 5G NR FR2 TDD 6.61 ±9.6 10873 AAE 5G NR (DFTs-OFDM, 1BR, 100 MHz, 0AM, 120 KHz) 5G NR FR2 TDD 6.61 ±9.6 10874 AAE 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 040AM, 120 KHz) 5G NR FR2 TDD 6.85 ±9.6 10875 AAE 5G NR (CP-OFDM, 108% RB, 100 MHz, 040AM, 120 KHz) 5G NR FR2 TDD 7.95 ±9.6 10876 AAE 5G NR (CP-OFDM, 108% RB, 100 MHz, 102 KHz) 5G NR FR2 TDD 8.41 ±9.6 10877 AAE 5G NR (CP-OFDM, 108% RB, 100 MHz, 640AM, 120 KHz) 5G NR FR2 TDD 8.41 ±9.6 10878 AAE 5G NR (CP-OFDM, 108% RB, 50 MHz, CPSK, 120 KHz) 5G NR FR2 TDD 5.75 ±9.6	10866	AAF	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10870 AAE 5G NR (DFT-s-OFDM, 100%, RB, 100MHz, (DFSK, 120KHz) 5G NR FR2 TDD 5.86 ±9.6 10871 AAE 5G NR (DFT-s-OFDM, 100%, RB, 100MHz, 16QAM, 120KHz) 5G NR FR2 TDD 5.75 ±9.6 10873 AAE 5G NR (DFT-s-OFDM, 100% RB, 100MHz, 4GAM, 120KHz) 5G NR FR2 TDD 6.61 ±9.8 10873 AAE 5G NR (DFT-s-OFDM, 100% RB, 100MHz, 4GAM, 120KHz) 5G NR FR2 TDD 6.61 ±9.8 10874 AAE 5G NR (DFT-s-OFDM, 100% RB, 100MHz, 6GAM, 120KHz) 5G NR FR2 TDD 8.95 ±9.6 10875 AAE 5G NR (CP-OFDM, 118, 100MHz, 102KHz) 5G NR FR2 TDD 7.35 ±9.6 10876 AAE 5G NR (CP-OFDM, 118, 100MHz, 102KHz) 5G NR FR2 TDD 8.39 ±9.6 10877 AAE 5G NR (CP-OFDM, 118, 100MHz, 40AM, 120KHz) 5G NR FR2 TDD 8.34 ±9.6 10878 AAE 5G NR (CP-OFDM, 118, 100MHz, 40AM, 120KHz) 5G NR FR2 TDD 8.32 ±9.6 10880 AAE 5G NR (DFT-s-OFDM, 100% RB, 50MHz, 40AM, 120KHz) 5G NR FR2 TDD 5.75 ±9.6 10880	10868	AAF	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10871 AAE SG NR (DFT-s-OFDM, 10% RB, 100MHz, 160AM, 120KHz) SG NR F12 TDD 5.75 ±9.6 10872 AAE SG NR (DFT-s-OFDM, 10% RB, 100MHz, 40AM, 120KHz) SG NR RP2 TDD 6.52 ±9.6 10873 AAE SG NR (DFT-s-OFDM, 10% RB, 100MHz, 40AM, 120KHz) SG NR FR2 TDD 6.65 ±9.6 10874 AAE SG NR (CP-OFDM, 10% RB, 100MHz, QPSK, 120KHz) SG NR FR2 TDD 6.65 ±9.6 10875 AAE SG NR (CP-OFDM, 10% RB, 100MHz, QPSK, 120KHz) SG NR FR2 TDD 7.78 ±9.6 10876 AAE SG NR (CP-OFDM, 10% RB, 100MHz, GAM, 120KHz) SG NR FR2 TDD 8.39 ±9.6 10877 AAE SG NR (CP-OFDM, 10% RB, 100MHz, 16AM, 120KHz) SG NR FR2 TDD 8.41 ±9.6 10879 AAE SG NR (CP-OFDM, 10% RB, 100MHz, 64AM, 120KHz) SG NR FR2 TDD 8.12 ±9.6 10880 AAE SG NR (CP-OFDM, 10% RB, 50MHz, 120KHz) SG NR FR2 TDD 5.75 ±9.6 10882 AAE SG NR (DFT-oCPDM, 100% RB, 50MHz, 16AM, 120KHz) SG NR FR2 TDD 5.58 ±9.6 10886 <td>10869</td> <td>AAE</td> <td>5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)</td> <td>5G NR FR2 TDD</td> <td>5.75</td> <td></td>	10869	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	
10872 AAE 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 16QAM, 120 KHz) 5G NR FR2 TDD 6.52 ±9.6 10873 AAE 5G NR (DFTs-OFDM, 1 RB, 100 MHz, 64QAM, 120 KHz) 5G NR FR2 TDD 6.61 ±9.8 10875 AAE 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 64QAM, 120 KHz) 5G NR FR2 TDD 7.78 ±9.6 10875 AAE 5G NR (CP-OFDM, 1RB, 100 MHz, QPSK, 120 KHz) 5G NR FR2 TDD 7.78 ±9.6 10876 AAE 5G NR (CP-OFDM, 1RB, 100 MHz, CPSK, 120 KHz) 5G NR FR2 TDD 8.39 ±9.6 10877 AAE 5G NR (CP-OFDM, 1RB, 100 MHz, 40AM, 120 KHz) 5G NR FR2 TDD 8.41 ±9.6 10878 AAE 5G NR (CP-OFDM, 1RB, 100 MHz, 64QAM, 120 KHz) 5G NR FR2 TDD 8.41 ±9.6 10880 AAE 5G NR (CP-OFDM, 10% RB, 100 MHz, 64QAM, 120 KHz) 5G NR FR2 TDD 8.38 ±9.6 10881 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 KHz) 5G NR FR2 TDD 5.75 ±9.6 10882 AAE 5G NR (CP-FS-OFDM, 100% RB, 50 MHz, QPSK, 120 KHz) 5G NR FR2 TDD 5.65 ±9.8	10870	AAE				±9.6
10873 AAE 5G NR (DFTs-OFDM, 1 RB, 100 MHz, 64QAM, 120 KHz) 5G NR FR2 TDD 6.61 ±9.6 10874 AAE 5G NR (DFTs-OFDM, 100% RB, 100 MHz, 64QAM, 120 KHz) 5G NR FR2 TDD 6.65 ±9.6 10875 AAE 5G NR (CP-OFDM, 18, 100 MHz, 0FSK, 120 KHz) 5G NR FR2 TDD 8.39 ±9.6 10876 AAE 5G NR (CP-OFDM, 18, 100 MHz, 0FSK, 120 KHz) 5G NR FR2 TDD 8.39 ±9.6 10877 AAE 5G NR (CP-OFDM, 18, 100 MHz, 160AM, 120 KHz) 5G NR FR2 TDD 8.14 ±9.6 10878 AAE 5G NR (CP-OFDM, 100% RB, 100 MHz, 640AM, 120 KHz) 5G NR FR2 TDD 8.12 ±9.6 10879 AAE 5G NR (CP-OFDM, 100% RB, 100 MHz, 640AM, 120 KHz) 5G NR FR2 TDD 8.12 ±9.6 10881 AAE 5G NR (DFTs-OFDM, 100% RB, 50 MHz, 640AM, 120 KHz) 5G NR FR2 TDD 5.75 ±9.6 10882 AAE 5G NR (DFTs-OFDM, 100% RB, 50 MHz, 102 KHz) 5G NR FR2 TDD 5.96 ±9.6 10884 AAE 5G NR (DFTs-OFDM, 100% RB, 50 MHz, 102 KHz) 5G NR FR2 TDD 6.61 ±9.8	10871	AAE				
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10875 AAE 5G NR (CP-OFDM, 10% RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 7.78 ±9.6 10876 AAE 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 8.39 ±9.6 10877 AAE 5G NR (CP-OFDM, 118, 100 MHz, GAGM, 120 kHz) 5G NR FR2 TDD 8.41 ±9.6 10878 AAE 5G NR (CP-OFDM, 118, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.41 ±9.6 10879 AAE 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.12 ±9.6 10880 AAE 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.75 ±9.6 10881 AAE 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.96 ±9.6 10882 AAE 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 100 AHz) 5G NR FR2 TDD 6.57 ±9.6 10883 AAE 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 40 AM, 120 kHz) 5G NR FR2 TDD 6.61 ±9.6 10886 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, 40 AM, 120 kHz) 5G NR FR2 TDD 6.61 ±9.6				<u></u> .		
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			· · · · · · · · · · · · · · · · · · ·	5G NR FR1 TDD	5.96	±9.6
		AAC		5G NR FR1 TDD	5.83	±9.6

	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10911	AAB		5G NR FR1 TDD	5.93	±9.6
10912	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10914		5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAD		5G NR FR1 TDD	5.83	±9.6
10916	<u> </u>	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917		5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918 10919	AAE AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10919	AAB	5G NR (DFT-S-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	5.86 5.87	±9.6
10921	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6 ±9.6
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	ĀAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAD AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25MHz, QPSK, 15kHz)	5G NR FR1 FDD 5G NR FR1 FDD	5.51 5.51	±9.6
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.90	±9.6
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 KHz)	5G NR FR1 FDD	5.83	±9.6
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15kHz)	5G NR FR1 FDD 5G NR FR1 FDD	5.85 5.95	±9.6
10944	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.95	±9.6
10945	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10952	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD 5G NR FR1 FDD	8.25	±9.6
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.15 8.23	±9.6 ±9.6
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.6
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
10960 10961	AAE	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)	5G NR FR1 TDD	9.32	±9.6
10961	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
10963	AAC	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	9.40	±9.6
10964	AAE	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55 9.29	±9.6 ±9.6
10965	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.6
10967	AAC	5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 30kHz)	5G NR FR1 TDD	9.42	±9.6
10968	AAD	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	±9.6
10972	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	±9.6
10973 10974	AAD AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
10974	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) ULLA BDR	5G NR FR1 TDD	10.28	±9.6
10979	AAA		ULLA	1.16 8.58	±9.6
10980	AAA	ULLA HDR8		10.32	±9.6 ±9.6
10981	AAA	ULLA HDRp4	ULLA	3.19	±9.6
10982	AAA	ULLA HDRp8	ULLA	3.43	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
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	±9.6
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	±9.6
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	<u>±9.</u> 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	±9.6
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
11 023	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

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

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



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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	Element Morgan Hill, USA		Certificate No.	EX-7668_Sep24
CAL	IBRATION CEF	RTIFICATE		
Object		EX3DV4 - SN:7668		ATM
Calibrat	tion procedure(s)	QA CAL-01.v10, QA CAL- QA CAL-25.v8 Calibration procedure for c		alia 1211
Calibrat	tion date	September 04, 2024		
The me	asurements and the unc	nents the traceability to national stand ertainties with confidence probability a ucted in the closed laboratory facility:	are given on the following	pages and are part of the certificate.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	1D	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
OCP DAK-3.5 (weighted)	SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Oct23)	Oct-24
OCP DAK-12	SN: 1016	05-Oct-23 (OCP-DAK12-1016_Oct23)	Oct-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	26-Mar-24 (No. 217-04046)	Mar-25
DAE4	SN: 660	23-Feb-24 (No. DAE4-660_Feb24)	Feb-25
Reference Probe EX3DV4	SN: 7349	03-Jun-24 (No. EX3-7349_Jun24)	Jun-25

Secondary Standards	ID ·	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-24)	In house check: Jun-26
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

	Name	Function	Signature
Calibrated by	Joanna Lleshaj	Laboratory Technician	Apples
Approved by	Sven Kühn	Technical Manager 5.	
This calibration certificate shall r	not be reproduced except in full wit	c nout written approval of the laborat	Issued: September 04, 2024 ory.

Calibration Laboratory of

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





S

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Accreditation No.: SCS 0108

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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	φ rotation around probe axis
Polarization $\hat{\vartheta}$	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Callbration 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 $\vartheta = 0$ ($f \le 900$ 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 $f \le 800 \text{ MHz}$) 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).

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm (μV/(V/m) ²) A	0.62	0.59	0.63	±10.1%
DCP (mV) ^B	104.2	104.9	102.6	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A	В	C	D	VR	Max	Max
			dB	dBõV		dB	mV	dev.	Unc ^E
									k = 2
0		X	0.00	0.00	1.00	0.00	132.7	±2.1%	±4.7%
-		Y	0.00	0.00	1.00		142.4		
		Z	0.00	0.00	1.00	_	132.8		
10352	Pulse Waveform (200Hz, 10%)	X	1.56	60.94	6.70	10.00	60.0	±3.3%	±9.6%
		Y	1.49	60.42	6.13		60.0		
		Z	1.53	60.68	6.43		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	0.78	60.00	5.13	6.99	80.0	±2.2%	±9.6%
		Y	0.82	60.00	4.78	1	80.0		
		Z	20.00	74.00	9.00	1	80.0		
10354	Pulse Waveform (200Hz, 40%)	<u> </u>	0.27	151.69	2.13	3.98	95.0	±2.9%	±9.6%
		Y	78.00	74.00	7.00	1	95.0		
		Z	0.03	129.30	0.78	1	95.0]	
10355	Pulse Waveform (200Hz, 60%)	- X	0.28	60.00	3.18	2.22	120.0	±1.5%	±9.6%
		Y	9.53	157.10	18.54		120.0		
		Z	6.31	159.94	18.57		120.0		
10387	QPSK Waveform, 1 MHz	. X	1.02	72.84	17.93	1.00	150.0	±3.6%	±9.6%
		Y	0.48	62.04	11.07	1	150.0]	
		Z	0.50	62.18	11.54		150.0		
10388	QPSK Waveform, 10 MHz		1.76	70.03	16.64	0.00	150.0	±1.1%	±9.6%
		Y	1.22	64.64	12.93	1	150.0]	
		Z	1.26	64.87	13.28		150.0		
10396	64-QAM Waveform, 100 kHz	<u> </u>	1.67	64.45	16.61	3.01	150.0	±1.3%	±9.6%
		Y	1.65	64.10	15.54	1	150.0]	
		Z	1.52	62.79	15.23	1	150.0]	
10399	64-QAM Waveform, 40 MHz	X	3.04	67.40	16.01	0.00	150.0	±1.8%	±9.6%
		Y	2.74	65.88	14.73	1	150.0]	
		Z	2.77	65.82	14.85	1	150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	3.99	66.55	15.85	0.00	150.0	±3.2%	±9.6%
		Y	3.70	65.68	14.96	1	150.0]	
		Z	3.91	66.38	15.44	1	150.0]	

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%.

 ^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 5).
 ^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.

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ∣msV ⁻²	T2 ms V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	T6
x	10.5	75.91	33.81	2.42	0.00	4.90	0.00	0.03	1.00
y -	9.1	66.02	33.24	3.43	0.00	4.90	0.42	0.00	1.00
z	9.3	68.79	34.39	0.92	0.00	4.90	0.00	0.00	1.00

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-76.5°
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 Callbration 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.

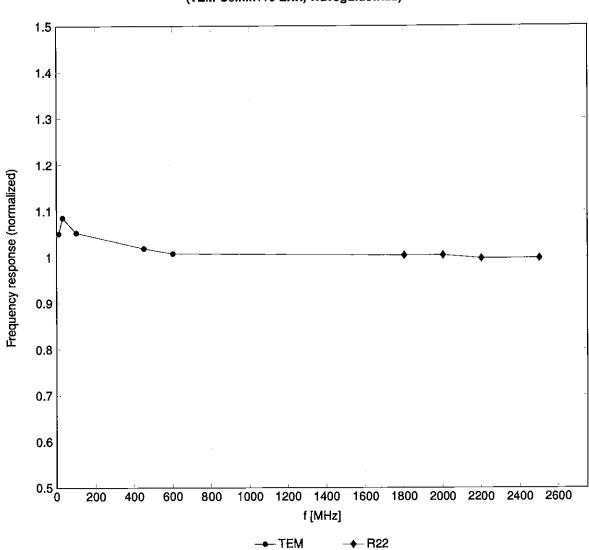
Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc ^H (<i>k</i> = 2)
750	41.9	0.89	8.79	9.18	8.81	0.31	1.27	±11.0%
835	41.5	0.90	8.53	8.90	8.54	0.31	1.27	±11.0%
1750	40.1	1.37	7.55	7.88	7.56	0.32	1.27	±11.0%
1900	40.0	1.40	7.27	7.60	7.29	0.32	1.27	±11.0%
2300	39.5	1.67	7.01	7.32	7.02	0.32	1.27	±11.0%
2450	39.2	1.80	6.88	7.18	6.89	0.33	1.27	±11.0%
2600	39.0	1.96	6.80	7.10	6.81	0.33	1.27	±11.0%
3300	38.2	2.71	6.25	6.52	6.26	0.34	1.27	±13.1%
3500	37.9	2.91	6.14	6.41	6.15	0.34	1.27	±13.1%
3700	37.7	3.12	6.06	6.33	6.07	0.34	1.27	±13.1%
3900	37.5	3.32	5.96	6.23	5.97	0.34	1.27	±13.1%
4100	37.2	3.53	5.83	6.09	5.84	0.34	1.27	±13.1%
4400	36.9	3.84	5.69	5.94	5.70	0.35	1.27	±13.1%
4600	36.7	4.04	5.65	5.90	5.65	0.35	1.27	±13.1%
4800	36.4	4.25	5.59	5.84	5.60	0.35	1.27	±13.1%
4950	36.3	4.40	5.51	5.75	5.52	0.34	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 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 $\pm 5\%$ from the target values (typically better than $\pm 3\%$)

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 boundary.

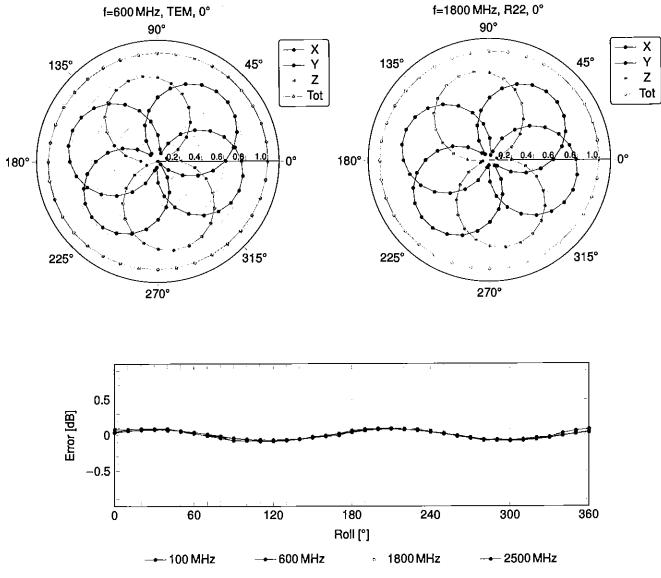
^H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. This is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.



Frequency Response of E-Field

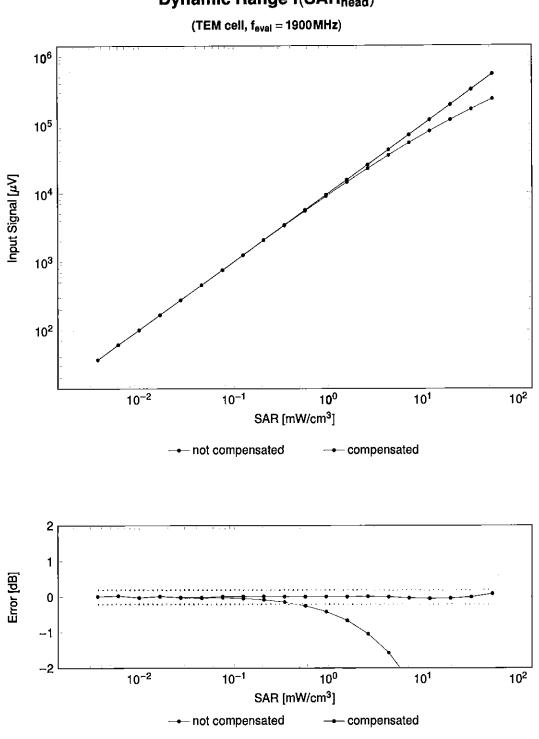
(TEM-Cell:ifi110 EXX, Wavegulde:R22)

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



Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

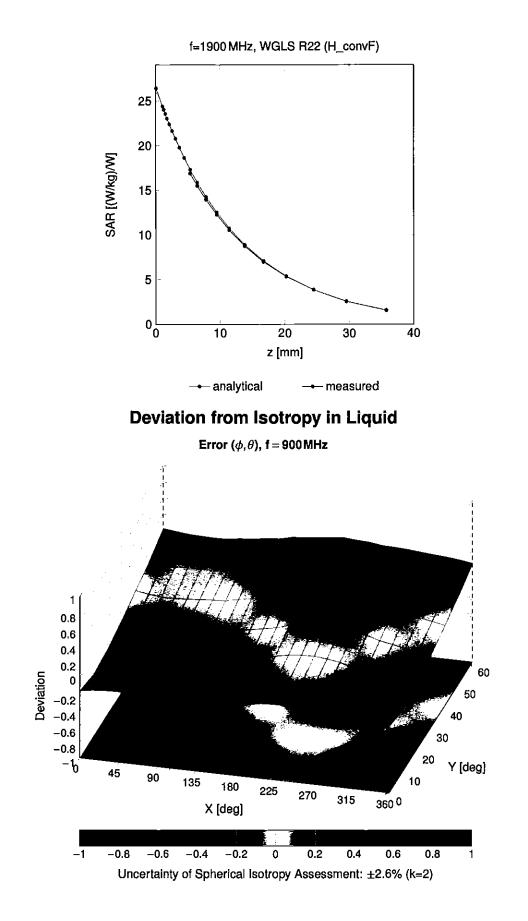
Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)



Dynamic Range f(SAR_{head})

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

Conversion Factor Assessment



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
0.0	nev	CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10010	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10012	CAB	IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10010	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	±9.6
10 024	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
10020	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6
10028	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7,78	±9.6
10029	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	<u>±9.6</u>
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	4.53	±9.6
			Bluetooth	3.83	±9.6
10035 10036		IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	8.01	±9.6
			Bluetooth	4.77	±9.6
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.10	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	CDMA2000	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1)		7.78	<u>±9.6</u>
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	0.00	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS		±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)		6.52	±9.6
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
10062	CAE	IEEE 802.11a/h WiFI 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAE	IEEE 802.11a/h WiFI 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAE	JEEE 602.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WIFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB		WLAN	9.62	±9.6
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PV4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10098	CAC	UMTS-FDD (HSUPA, Sublest 2)	WCDMA	3.98	±9.6
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
10105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10400	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.60	±9.6
10108					100
10108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
	CAH CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD LTE-FDD	<u>6.43</u> 5.75	±9.6 ±9.6

					$Unc^{E} k = 2$
UID	Rev	Communication System Name	Group	PAR (dB) 6.59	$\frac{Unc^{-} k = 2}{\pm 9.6}$
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	WLAN	8.10	±9.6
10114	CAE	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.46	<u>+9.6</u>
10115	CAE	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.15	±9.6
10116	CAE	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.07	±9.6
10117	CAE	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.59	±9.6
10118	CAE	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM) IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
10119	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16 QAM)		6.49	±9.6
10140	CAF CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 3MHz, QPSK)		5.73	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6 ±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79 5.73	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	6.52	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)		9.21	±9.6
10172 10173	CAH CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)		9.48	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10MHz, QPSK)	LTE-FDD	5.72	±9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10177		LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6
10182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
10194	CAE	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
10195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN WLAN	8.21	±9.6
10196		IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
10197	CAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
10198	CAE	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6
10219	CAE	IEEE 802.11n (HT Mixed, 7.2 Mops, BFSN)	WLAN	8.13	±9.6
10220	CAE	IEEE 802.11n (HT Mixed, 43.5 Mbps, 10-QAM)	WLAN	8.27	±9.6
10221	CAE	IEEE 802.11n (HT Mixed, 12/2 Mbps, BPSK)	WLAN	8.06	±9.6
10222	CAE	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6
10223	CAE	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6
L. V.L.4	1.400				<u> </u>

	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10225	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TOD	9.22	±9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16 QAM)	LTE-TDD	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6
10235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16 QAM)	LTE-TDD	9.48	±9.6
10236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6
10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-TDD	9.21	±9.6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	<u>±</u> 9.6
10246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6
10257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TOD	10.08	±9.6
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6 ±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM)	LTE-TDD	9.97	±9.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK)		9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	10.16	±9.6
10263 10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6
10264	CAH CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10265	CAH		LTE-TDD	10.07	±9.6
10200	CAH			9.30	±9.6
10267	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)		10.06	±9.6
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)		10.13	±9.6
10209	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)		9.58	±9.6
10276	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6
10275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
10277	CAA	PHS (QPSK)	PHS	11.81	±9.6
10278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
10279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6
10298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
10299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10301	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WIMAX	12.03	±9.6
10302	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.57	±9.6
10303	AAA	IEEE 802.16e WiMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WIMAX	12.52	±9.6
10304	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WIMAX	11.86	±9.6
10305	AAA	IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WIMAX	15.24	±9.6
10306	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WIMAX	14.67	±9.6

		Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
UID 10307	Rev	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	±9.6
10308	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WIMAX	14.46	±9.6
10309	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WIMAX	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	±9.6
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)	WLAN		±9.6
10316	AAB	IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10317	AAE	IEEE 802.11a WIFI 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6 ±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic Generic	6.27	±9.6
10399		64-QAM Waveform, 40 MHz	WLAN	8.37	±9.6
10400	AAF	IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10401	AAF	IEEE 802.11ac WIFI (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
10402		CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
10404	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subirame=2,3,4,7,8,9, Subirame Coni=4)	LTE-TDD	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WiFI 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±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	8.14	±9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	±9.6
10422	AAD	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)		8.32	±9.6
10423	AAD	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	
10424	AAD	IEEE 802.11n (HT Greenlield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6
10425	AAD	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
10426	AAD	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	±9.6
10427	AAD	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6 ±9.6
10430	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10432 10433	AAD AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10433	AAD	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10434	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
10400	AAE	LTE-FDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9.6
10450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
10456	AAD	IEEE 802.11ac WiFI (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.6
10457	AAB	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.30	±9.6
10463	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.56	±9.6
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10465 10466	AAD AAD	LTE-10D (SC-FDMA, 1 RB, 3 MHz, 10-QAM, 0L Subframe=2,3,4,7,6,9)	LTE-TDD	8.57	±9.6
10466	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subirane=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10467	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
10469	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subirame=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10471	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
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10472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)		8.57	±9.6
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.18	±9.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	±9.6
10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	±9.6
10484	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10485	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
10486	AÁG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	±9.6
10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8,60	±9.6
10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.31	±9.6
10490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10492	AĂF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10495	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6
10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	±9.6
10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subirame=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6
10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	±9.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	±9.6
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10518	AAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10519	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	<u>±9.6</u>
10520	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
10521	AAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	<u>+9.6</u>
10522	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10523	AAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	<u>±9.6</u>
10524	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6
10525	AAD	IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.36	
10526	AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)		8.42	±9.6
10527	AAD	IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
10528	AAD	IEEE 802.11ac WiFI (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6
10529	AAD	IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duly cycle)	WLAN	8.36	±9.6
10531	AAD	IEEE 802.11ac WIFI (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.43	±9.6
10532	AAD	IEEE 802.11ac WiFI (20 MHz, MCS7, 99pc duty cycle)		8.29	±9.6
10533	AAD	IEEE 802.11ac WiFI (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6
10534	AAD	IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±9.6
10535	AAD	IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	<u>+9.6</u>
10536	AAD	IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6
10537	AAD	IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)	WLAN WLAN	8.44	±9.6
10538	AAD	IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle)			±9.6
10540	AAD	IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.39	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	
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	
10544	AAD	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duly cycle)	WLAN	8.55	±9.6
10545	AAD	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN WLAN	8,35	<u>±9.6</u>
10546	AAD	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)			±9.6
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		±9.0 ±9.6
10550	AAD	IEEE 802.11ac WiFI (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	<u>±9.0</u>
10551	AAD	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10552	AAD	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN WLAN	8.42	±9.6
10553	AAD	IEEE 802.11ac WiFl (80 MHz, MCS9, 99pc duty cycle)		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)		8.50	±9.6
10556	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN WLAN	8.52	<u>±9.6</u>
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)		8.73	±9.6
10560	AAE	IEEE 802.11ac WiFI (160 MHz, MCS6, 99pc duty cycle)	WLAN		
10561	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	<u>±9.6</u> ±9.6
10562	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	<u>±9.6</u>
10563	AAE	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.25	±9.6
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN WLAN	8.25	<u></u>
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)			<u>±9.0</u>
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN WLAN	8.13	±9.6
10567	AAA	IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568			WLAN	8.10	±9.6
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	1.99	±9.6
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	<u></u>
10572	AAA	IEEE 802.11b 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, 90pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10575 10576	AAA AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10576			WLAN	8.70	<u>±9.6</u>
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10578	AAA 	IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 16 Mbps, 500 duty cycle)	WLAN	8.36	
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, solid outy cycle)	WLAN	8.76	±9.6
10580	AAA	IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 38 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 44 Mbps, solid duty cycle)	WLAN	8.67	±9.6
10582	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8,59	±9.6
10584	AAD		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	<u>±9.6</u>
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10587	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	±9.6
10591	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
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	±9.6
10594	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 5005 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	±9.6
	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6
10602	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
			WLAN	8.76	±9.6
10603	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90oc duty cycle)	110-11		
10603 10604		IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6
10603	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)			±9.6
10603 10604 10605	AAD AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duly cycle)	WLAN	8.97	

		Occurrent and an Name	Group	PAR (dB)	$Unc^E k = 2$
UID 10609	Rev	Communication System Name IEEE 802.11ac WiFI (20 MHz, MCS2, 90pc duty cycle)	Group WLAN	8.57	±9.6
10609	AAD AAD	IEEE 802.11ac WiFI (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	<u>±9.6</u>
10610	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	±9.6
10612	AAD	IEEE 802.11ac WiFI (20 MHz, MCS6, 90pc duty cycle)	WLAN	8,94	±9.6
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 duty cycle)	WLAN	8.82	±9.6
10616	AAD	IEEE 802.11ac WiFI (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	 ±9.6
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	±9.6
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	IEEE 802.11ac WiFI (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
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	±9.6
10630	AAD	IEEE 802.11ac WiFI (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±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	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
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	±9.6
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	AAE	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10641	AAE	IEEE 802.11ac WiFI (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
10642	AAE	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAE	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subirame=2,7)	LTE-TDD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF		LTE-TDD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
10676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN MI AN	8.26	±9.6
10685	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN WLAN	8.33	±9.6
10686	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)		8.28	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
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	±9.6
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	±9.6
10692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
10694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLÂN	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	±9.6
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 duly 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	±9.6
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	<u>+9.6</u>
10706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
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)		8.55	±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
10711	AAC	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	AAC	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 ±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	
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
10720	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
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)		8.70 8.90	±9.6 ±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8,74	± 9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8,66	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.65	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)			
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	<u>±9.6</u> ±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)		8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN WLAN	8.42	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46 8.40	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.33	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.33	±9.6
10736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.36	±9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.30	±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)		8.42	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.48	±9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)		8.40	±9.6
10741	AAC AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
10742	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc doly cycle)	WLAN	9.16	±9.6
10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.93	±9.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	9.11	±9.6
10746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.04	±9.6
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.93	±9.6
		IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
10749	AAC AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
10750		IEEE 802.11ax (160 MHz, MCS7, 90pc duly cycle)	WLAN	8.82	±9.6
10751	AAC AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
10702	1 MAG		TIGNIT	0.01	1 10.0

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)		9.00	±9.6 ±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN		±9.6
10755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN WLAN	8.64 8.77	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
10757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.69	<u>±9.6</u>
10758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.58	
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6
10760	AAC AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6
10761 10762	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.49	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10766	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
10767	AAG	5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 15kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	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, 25 MHz, QPSK, 15 kHz)	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
10773	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	±9.6
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	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	<u>±9.6</u>
10780	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	<u>±9.6</u>
10781	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782	AAE	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10783	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10784	AAE	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, 15MHz, QPSK, 15kHz)	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 8.39	±9.6 ±9.6
10788	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.39	±9.6
10789	AAF AAE	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10790 10791	AAG	5G NR (CP-OFDM, 100% NB, 50 MHz, QPSK, 13 KHz)	5G NR FR1 TDD	7.83	±9.6
10791	AAG	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10792	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
10794	AAE		5G NR FR1 TDD	7.82	±9.6
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
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
10799	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10801	AAF	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10802	AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10803	AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10805	AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
10809	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	
10810	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10812	AAF	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10817	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10818	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
10820	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	±9.6
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10822	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10823	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	±9.6
10824	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
10825	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.41 8.42	±9.6 ±9.6
10827 10828	AAF AAE	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
10020	AAE			0.43	10.0

	Base	Communication Statem Nome	Group	PAR (dB)	$Unc^{E} k = 2$
UID 10829	Rev AAF	Communication System Name 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6
10829	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	7.74	±9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
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	±9.6
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
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
10844	AAE	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10846	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10854	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10856	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6
10858	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6 ±9.6
10859	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	<u> </u>	±9.6
10860	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FRI TDD	8.40	±9.6
10861	AAF AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40 8.41	±9.6
10863	AAF	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10865	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10865	AAF	5G NR (DFT-s-OFDM, 100% RB, 100MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.68	±9.6
10868	AAF	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
10869	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
10871	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
10873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10874	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
10880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
10881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10882	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
10883	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
10884	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
10885	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61 6.65	±9.6 ±9.6
10886	AAE	5G NH (DFI-S-OFDM, 100% HB, 50 MHz, 64 QAM, 120 HHz)	5G NR FR2 TDD	7.78	±9.6
10887		5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
10888	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16 QAM, 120 KHz)	5G NR FR2 TDD	8.02	±9.6
10890	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	±9.6
10891	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	±9.6
10892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10897	AAE	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	±9.6
10898	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10900	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10902	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10904	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10907	AAE	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
10908	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
10910	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6

UID Rev Communication system Name URODE URODE <thurode< th=""> <thurode< th=""> <thurode< th="" th<=""><th></th><th></th><th></th><th></th><th></th><th></th></thurode<></thurode<></thurode<>						
TOBSE TAC Light PLAC	UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
10913 AAD CAR IN CIT-COPENA SYS - BLAMING, CPRK, 3091-19 SCA INF FFF TOD 5.45 1.80 10914 AAD SCA INF CIT-COPENA SYS - BLAMING, CPRK, 3091-19 ISO INF FFF TOD 5.45 1.80 10915 AAD SCA INF CIT-COPENA SYS - BLAMING, CPRK, 3091-19 ISO INF FFF TOD 5.47 1.80 10917 AAD SCA INF CIT-COPENA SYS - BLAMING, CPRK, 3091-19 ISO INF FFF TOD 5.87 1.80 10917 AAD SCA INF CIT-COPENA SYS - BLAMING, CPRK, 3091-19 ISO INF FFF TOD 5.84 4.80 10917 AAC SCA INF CIT-COPENA SYS - BLAMING, CPRK, 3091-19 ISO INF FFF TOD 5.84 4.80 10920 AAS SCA INF CIT-COPENA SYS - SONHA, CPRK, 3091-19 ISO INF FFT TOD 5.84 4.80 10921 AAC SCA INF CIT-COPENA SYS - SONHA, CPRK, 3091-19 ISO INF FFT TOD 5.84 4.80 10922 AAS SCA INF CIT-COPENA SYS - SONHA, CPRK, 3091-19 ISO INF FFT TOD 5.84 4.80 10924 AAC SCA INF CPT - COPA ICORE AND ISO INF FFT TOD 5.84 4.80						
10314 AAC 20 MR (DFF-GPDK, 207K), 207K (3) SU14) 50 MR FRI TOD 563 14.9. 10316 AAD 63 MR (DFF-GPDK, 597K), 80 MIL, 207K, 30 H4) 50 MR FRI TOD 543 4.9.8. 10316 AAD 63 MR (DFF-GPDK, 597K), 80 MIL, 207K, 30 H4) 50 MR FRI TOD 5.44 4.9.8. 10317 AAD 63 MR (DFF-GPDK, 597K), 80 MIL, 207K, 30 H4) 50 MR FRI TOD 5.84 4.9.8. 10318 AAE 50 MR (DFF-SOFDK, 1007K, RE) (104K, PSK, 30 H4) 50 MR FRI TOD 5.84 4.9.8. 10324 AAE 50 MR (DFF-SOFDK, 1007K, RE) (104K, PSK, 30 H4) 50 MR FRI TOD 5.84 4.9.8. 10323 AAS 50 MR (DFF-SOFDK, 1007K, RE) 204K, DFSK, 30 H4) 50 MR FRI TOD 5.84 4.9.8. 10324 AAB 50 MR (DFF-SOFDK, 1007K, RE) 204K, DSKK, 30 H41) 50 MR FRI TOD 5.84 4.9.8. 10324 AAB 50 MR (DFF-SOFDK, 1007K, RE) 204K, DSKK, 30 H41) 50 MR FRI TOD 5.84 4.9.8. 10324 AAD 50 MR (DFF-SOFDK, 1007K, RE) 204K, DSKK, 100KH2) 50 MR FRI TOD 5.84 4.9.8.						
10957 ADD 55 NR (DFF-CPTM, 597, 88, 60 HHz, OPSK, 500 HHz) 56 NR FFH TOD 543 289 10917 ADD 56 NR (DFF-CPTM, 597, 89, 100 HHz, OPSK, 500 HHz) 55 NR FFH TOD 544 289 10917 ADD 56 NR (DFF-CPTM, 507, 89, 100 HHz, OPSK, 500 Hz) 55 NR FFH TOD 5.88 28.9 10918 AED 56 NR (DFF-CPTM, 1007, 89, 100 HHz, OPSK, 500 Hz) 56 NR FFH TOD 5.88 4.96 10928 AED 56 NR (DFF-CPTM, 1007, 89, 100 HHz, OPSK, 300 Hz) 56 NR FFH TOD 5.84 4.96 10922 AAD 56 NR (DFF-CPTM, 1007, 89, 100 HHz, OPSK, 300 Hz) 56 NR FFH TOD 5.84 4.96 10922 AAD 56 NR (DFF-CPTM, 1007, 89, 200 Hz), CPSK, 300 Hz) 56 NR FFH TOD 5.84 4.95 10928 AAD 56 NR (DFF-CPTM, 1007, 89, 200 Hz), CPSK, 300 Hz) 56 NR FFH TOD 5.84 4.95 10928 AAD 56 NR (DFF-CPTM, 1007, 89, 200 Hz), CPSK, 30 Hz) 56 NR FFH TOD 5.84 4.95 10928 AAD 56 NR (DFF-CPTM, 1007, 89, 200 Hz), CPSK, 30 Hz) 50 NR FFH TOD 5.84 4.95						
10957 ADD EGN NR (DFF-CPENK, S95K RB, 100HKL, CPEK, 20H4) EGN NR (DFF-CPENK, S95K RB, 100HKL, CPEK, 20H4) EGN NR (DFF-CPENK, S95K RB, 100HKL, CPEK, 20H4) EGN NR (DFF-CPENK, 100K, NB, SMHL, CPEK, 20H4) EGN NR (DFF-CPENK, 100K, NB, SMHL, CPEK, 20H4) EGN NR (DFF-CPENK, 100K, NB, SMHL, CPEK, 20H4) EGN NR (DFF-CPENK, 100K, NB, 20H4), CPEK, 20H4) EGN NR (DFF-CPENK, 100K, NB, 20H4), CPEK, 20H4) EGN NR (DFF-CPENK, 100K, NB, 20H4), CPEK, 20H4) EGN NR (DFF-CPENK, 100K, ND, 20H4), CPEK, 20H4) EGN NR (DFF-CPENK, 100K, ND, 20H4), CPEK, 20H4) EGN NR (PFF-CPENK, 100K, NB, 20H4), CPEK, 15H4) EGN NR (PFF CPENK, 10H4), CPEK, 15H4) EGN NR (PFF CPENK						
10937 ADD EGN R1 (DFT=CPTM, 695K, 881, 100HFZ, CPERK, 30HFZ) EGN R1 (DFT=CPTM, 1005K, 88, 30HFZ) EGN R1 (DFT=CPTM, 1005K, 88, 100HFZ, CPEKK, 30HFZ) EGN R1 (DFT=CPTM, 1005K, 88, 20MFZ, CPEKK, 30HFZ) EGN R1 (DTT=CPTM, 1005K, 88, 20MFZ, CPEKK, 30HFZ) EGN R1 (DTT=CPTM, 1005K, 88, 20MFZ, CPEKK, 30HFZ) EGN R1 (DTD=CPTM, 1005K, 88, 20MFZ, CPEKK, 30HFZ) EGN R1 (DTD=CPTM, 1005K, 88, 20MFZ, CPEKK, 30HFZ) EGN R1 (PTT=CPTM, 1005K, 88, 20MFZ, CPEKK, 15HFZ) EGN R1 (PTT=CPTM, 1005K, 88, 20MFZ, CPEKK, 15HFZ) EGN R1 (PTT=CPTM, 100KK, 88, 20MFZ, CPEKK, 1	I					
10019 AAC 50 NR (DFF-ACPEN, 1007, MB, 5MHz, QPSK, 30H4) 50 NR PFH TOD 5.86 4.96 10019 AAC 50 NR (DFF-ACPEN, 1007, MB, 15MHz, QPSK, 30H4) 50 NR PFH TOD 5.87 4.96 10021 AAC 50 NR (DFF-ACPEN, 1007, MB, 15MHz, QPSK, 30H4) 50 NR PFH TOD 5.84 4.96 10022 AAD 50 NR (DFF-ACPEN, 1007, MB, 25MHz, QPSK, 30H4) 50 NR PFH TOD 5.84 4.96 10023 AAC 50 NR (DFF-ACPEN, 1007, MB, 25MHz, QPSK, 30H4) 50 NR PFH TOD 5.84 4.96 10028 AAC 50 NR (DFF-ACPEN, 1007, MB, 80 MHz, QPSK, 30H4) 50 NR PFH TOD 5.84 4.96 10028 AAD 50 NR (DFF-ACPEN, 1007, MB, 80 MHz, QPSK, 30H4) 50 NR PFH TOD 5.84 4.96 10028 AAD 50 NR (DFF-ACPEN, 1007, MB, 80 MHz, QPSK, 30H4) 50 NR PFH TOD 5.84 4.96 10028 AAD 50 NR (DFF-ACPEN, 1007, MB, 80 MHz, QPSK, 30H4) 50 NR PFH TOD 5.84 4.96 10028 AAD 50 NR (DFF-ACPEN, 176, 24H4) 50 NR PFH TOD 5.82 4.96 1.99 1.99						
10357 ACC 55 NR (DFF-CPEN, 1095K BE, 10MHz, CPEK, 30Hz) 50 NR PFH TOD 5.46 ±8.6 10352 AAB 50 NR (DFF-CPEN, 1095K BE, 20MHz, CPEK, 30Hz) 50 NR PFH TOD 5.44 ±8.6 10352 AAB 50 NR (DFF-CPEN, 1095K BE, 20MHz, CPEK, 30Hz) 50 NR PFH TOD 5.44 ±8.6 10352 AAB 50 NR (DFF-CPEN, 1097K BB, 20MHz, CPEK, 30Hz) 50 NR PFH TOD 5.44 ±8.6 10352 AAD 50 NR (DFF-CPEN, 1097K BB, 20MHz, CPEK, 30Hz) 50 NR PFH TOD 5.44 ±8.6 10382 AAD 50 NR (DFF-CPEN, 1097K BB, 20MHz, CPEK, 30Hz) 50 NR PFH TOD 5.44 ±8.6 10382 AAD 50 NR (DFF-CPEN, 1097K, 18.8, 20MHz, CPEK, 30Hz) 50 NR PFH TOD 5.54 ±8.6 10382 AAD 50 NR (DFF-CPEN, 17.8, 15MHz, CPEK, 30Hz) 50 NR PFH TOD 5.52 ±8.6 10382 AAD 50 NR (DFF-CPEN, 17.8, 15MHz, CPEK, 15MHz) 50 NR PFH TOD 5.52 ±8.6 10382 AAC 50 NR (DFF-CPEN, 17.8, 3MHz, CPEK, 15MHz) 50 NR PFH TOD 5.52 ±8.6 10382 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
TORGE ARE TORE SEA T						
Construct Construction Sol Number 100 Sol Number 1000 Sol Number 100 Sol Number 10				· · ·		
TORDE ARD FOR HER SEA MER OFFE						
Construct Construction Con						±9.6
10025 AAD EG NR IDFT=0FDM, 100% RB, 20MHz, 0PSK, 30Hz) EG NR IPR ITDD 5.84 4265 10025 AAC EG NR IDFT=0FDM, 100% RB, 20MHz, 0PSK, 30Hz) EG NR IPR ITDD 5.94 4206 10025 AAC EG NR IDFT=0FDM, 100% RB, 20MHz, 0PSK, 15Hk2) EG NR IPR ITDD 5.94 4206 10025 AAD EG NR IDFT=0FDM, 100% RB, 20Hk2, 0PSK, 15Hk2) EG NR IPR IPDD 5.52 ±9.6 10032 AAD EG NR IDFT=0FDM, 1788, 15Mk2, 0PSK, 15Hk2) EG NR IPR IPDD 5.52 ±9.6 10032 AAC EG NR IDFT=0FDM, 1788, 15Mk2, 0PSK, 15Hk2) EG NR IPR IPDD 5.51 ±9.5 10032 AAC EG NR IDFT=0FDM, 1788, 20Hk2, 0PSK, 15Hk2) EG NR IPR IFDD 5.51 ±9.5 10032 AAC EG NR IDFT=0FDM, 1788, 20Hk12, 0PSK, 15Hk2) EG NR IPR IFDD 5.51 ±9.5 10033 AAC EG NR IPT=0FDM, 1788, 40Hk12, 0PSK, 15Hk12) EG NR IPR IFDD 5.51 ±9.5 10034 AAC EG NR IPR IFDD 5.51 ±9.6 19.5 ±9.5 ±9.5 100354						±9.6
TOBES AAC SG NR IPCF-6-OPDM, 100% RG, SOMH2, OPSK, SOHH2) SG NR IPR ITOD 5.94 49.8 TOBES AAD SG NR IPCF-6-OPDM, 100% RG, SOHH2, OPSK, SOHH2) SG NR IPR ITOD 5.94 49.8 TOBES AAD SG NR IPCF-6-OPDM, 100% RG, SOHH2, OPSK, 154H2) SG NR IPR ITOD 5.52 49.8 TOBES AAD SG NR IPCF-6-OPDM, 178, 20PSK, 154H2) SG NR IPR IFDO 5.52 49.8 TOBES AAC SG NR IPCF-6-OPDM, 178, 20PSK, 154H2) SG NR IPR IFDO 5.51 49.8 TOBES AAC SG NR IPCF-6-OPDM, 178, 20PSK, 154H2) SG NR IPR IFDO 5.51 49.8 TOBES AAC SG NR IPCF-6-OPDM, 178, 20PK, 154H2 SG NR IPR IFDO 5.51 49.8 TOBES AAC SG NR IPCF-6-OPDM, 178, 20PK, 154H2 SG NR IPR IFDO 5.51 49.8 TOBES AAD SG NR IPCF-6-OPDM, 178, 20PK, 154H2 SG NR IPR IFDO 5.51 49.8 TOBES AAD SG NR IPCF-6-OPDM, 178, 20PK, 154H2 SG NR IPR IFDO 5.90 4.80 TOBES SG NR IPCF-6-OPDM, 178, 20PK, 154H2, O						±9.6
10025 AAD SG AR IDFT=-OFDM_100% RE_GOMHL-OPSK, 30H/b) 5G NR FRI TOD 5.84 ±9.8 10027 AAD SG NR IDFT=-OFDM_100% RE_GOMHL-OPSK, 30H/b) SG NR FRI TOD 5.92 ±9.8 10028 AAD SG NR [DFT=-OFDM, 1 RE, SMHz, OPSK, 15kHz) SG NR FRI TOD 5.22 ±9.8 100280 AAC SG NR [DFT=-OFDM, 1 RE, 15MHz, OPSK, 15kHz) SG NR FRI TOD 5.22 ±9.8 100380 AAC SG NR [DFT=-OFDM, 1 RE, 25MHz, OPSK, 15MHz) SG NR FRI TOD 5.51 ±9.8 103821 AAC SG NR [DFT=-OFDM, 1 RE, 25MHz, OPSK, 15MHz) SG NR FRI FDD 5.51 ±9.8 103834 AAC SG NR [DFT=-OFDM, 1 RE, 20MHz, OPSK, 15MHz) SG NR FRI FDD 5.51 ±9.8 103834 AAD SG NR [DFT=-OFDM, 57% RE, 10MHz, OPSK, 15MHz) SG NR FRI FDD 5.91 ±9.8 103834 AAD SG NR [DFT=-OFDM, 57% RE, 10MHz, OPSK, 15MHz) SG NR FRI FDD 5.90 ±9.8 103834 AAD SG NR [DFT=-OFDM, 57% RE, 10MHz, OPSK, 15MHz) SG NR FRI FDD 5.80 ±9.8 ±9.8 ±9.8					5.95	±9.6
10027 AAD EG NR IDFT=-OFDM_100% R8_00HHz_0PSK_350HHz) EG NR PRI FDD 5.94 4.96 10028 AAD EG NR IDFT=-OFDM_118_S.MHZ_0PSK_15HHz) EG NR PRI FDD 5.52 ±9.6 10028 AAD EG NR (DFT=-OFDM, 18B, 10MHz, 0PSK, 15HHz) EG NR PRI FDD 5.52 ±9.6 100381 AAC EG NR (DFT=-OFDM, 18B, 20MHz, 0PSK, 15HHz) EG NR PRI FDD 5.51 ±9.6 100382 AAC EG NR (DFT=-OFDM, 18B, 20MHz, 0PSK, 15HHz) EG NR PRI FDD 5.51 ±9.6 100383 AAC EG NR (DFT=-OFDM, 18B, 20MHz, 0PSK, 15HHz) EG NR PRI FDD 5.51 ±9.6 100383 AAC EG NR (DFT=-OFDM, 18B, 20MHz, 0PSK, 15HHz) EG NR PRI FDD 5.51 ±9.6 100383 AAC EG NR (DFT=-OFDM, 15K, 20MHz, 0PSK, 15HHz) EG NR PRI FDD 5.51 ±9.6 100383 AAC EG NR (DFT=-OFDM, 55K, 8B, 5MHz, 0PSK, 15HHz) EG NR PRI FDD 5.50 ±9.6 100383 AAC EG NR (DFT=-OFDM, 55K, 8B, 5MHz, 0PSK, 15HHz) EG NR PRI FDD 5.80 ±9.6 100383 AAC					5.84	±9.6
10929 AD GO NR IDFT=OFDM, 1R8, GMH2, OPSK, 15H4p) SG NR PFN FDD 55.82 19.8 10929 AD GO NR IDFT=OFDM, 1R8, ISMH2, OPSK, 15H4p) SG NR PFN FDD 55.2 19.8 10921 AAC SG NR (DFT=OFDM, 1R8, ISMH2, OPSK, 15H4p) SG NR PFN FDD 55.51 ±9.8 10921 AAC SG NR (DFT=OFDM, 1R8, 25MH2, OPSK, 15H4p) SG NR PFN FDD 5.51 ±9.8 10932 AAC SG NR (DFT=OFDM, 1R8, 25MH2, OPSK, 15H4p) SG NR PFN FDD 5.51 ±9.8 10932 AAC SG NR (DFT=OFDM, 1R8, 40MH2, OPSK, 15H4p) SG NR PFN FDD 5.51 ±9.8 10933 AAC SG NR (DFT=OFDM, 1SR, 80MH2, CPSK, 15H4p) SG NR PFN FDD 5.51 ±9.8 10935 AAD SG NR (DFT=OFDM, 50% RB, 20MH2, CPSK, 15H4p) SG NR PFN FDD 5.52 ±9.8 10938 AAD SG NR (DFT=OFDM, 50% RB, 20MH2, CPSK, 15H4p) SG NR PFN FDD 5.52 ±9.8 10944 AAC SG NR (DFT=OFDM, 50% RB, 20MH2, CPSK, 15H4p) SG NR PFN FDD 5.58 ±9.8 10944 AAC S		-			5.94	±9.6
19252 AAD 6G NR IDFT-SOFDM, 188, 10MHz, OPSK, 15KHz) 5G NR PR1 FDD 5.522 49.6 19303 AAC 6G NR IDFT-SOFDM, 188, 20MHz, OPSK, 15KHz) 5G NR PR1 FDD 5.551 49.6 1932 AAC 5G NR IDFT-SOFDM, 188, 20MHz, OPSK, 15KHz) 5G NR PR1 FDD 5.551 49.8 1933 AAC 5G NR IDFT-SOFDM, 188, 20MHz, OPSK, 15KHz) 5G NR PR1 FDD 5.51 49.8 19383 AAC 5G NR IDFT-SOFDM, 188, 20MHz, OPSK, 15KHz) 5G NR PR1 FDD 5.51 49.8 19383 AAC 5G NR IDFT-SOFDM, 188, 50MHz, OPSK, 15KHz) 5G NR PR1 FDD 5.51 49.8 19383 AAD 5G NR IDFT-SOFDM, 50% RB, 5MHz, OPSK, 15KHz) 5G NR PR1 FDD 5.50 49.8 19393 AAC 5G NR IDFT-SOFDM, 50% RB, 25MHz, OPSK, 15KHz) 5G NR PR1 FDD 5.50 49.8 19394 AAC 5G NR IDFT-SOFDM, 50% RB, 25MHz, OPSK, 15KHz) 5G NR PR1 FDD 5.89 49.8 19394 AAC 5G NR IDFT-SOFDM, 50% RB, 25MHz, OPSK, 15KHz) 5G NR PR1 FDD 5.86 49.8 19.8 19394 <td></td> <td></td> <td></td> <td></td> <td>5.52</td> <td>±9.6</td>					5.52	±9.6
10930 AAC G G NI, IDFE-OFDM, 1 RB, 15MHz, OPSK, 15KHz) 5G N R FR1 FDD 5.52 42.6 10931 AAC G G NR [DFE-OFDM, 1 RB, 20MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.51 43.8 10932 AAC G G NR [DFE-OFDM, 1 RB, 20MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.51 43.8 10934 AAC G G NR [DFE-OFDM, 1 RB, 40MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.51 43.8 10935 AAD G G NR [DFE-OFDM, 1 RB, 40MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.51 43.6 10936 AAD G G NR [DFE-OFDM, 50% RB, 20MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.77 43.6 10937 AAC G G NR [DFE-OFDM, 50% RB, 20MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.82 49.8 10938 AAC G G NR [DFE-OFDM, 50% RB, 20MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.82 49.8 10940 AAC G G NR [DFE-OFDM, 50% RB, 20MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.82 49.6 10944 AAC G G NR [DFE-OFDM, 50% RB, 20MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.83 49.6 10.94 AAC	·					±9.6
19931 AAC 6G NR IDFF=OFDM, 1RB, 20HHz, QPSK, 15HHz) 5G NR FR1 PDD 5.51 49.8 10932 AAC 6G NR IDFF=OFDM, 1RB, 30HHz, QPSK, 15HHz) 5G NR FR1 PDD 5.51 49.8 10933 AAC 5G NR IDFF=OFDM, 1RB, 30HHz, QPSK, 15HHz) 5G NR FR1 PDD 5.51 49.8 10934 AAC 5G NR IDFF=OFDM, 1RB, 30HHz, QPSK, 15HHz) 5G NR FR1 PDD 5.51 49.8 10935 AAD 5G NR IDFF=OFDM, 50K BR, 5MHz, QPSK, 15HHz) 5G NR FR1 PDD 5.50 49.8 10937 AAD 5G NR IDFF=OFDM, 50K BR, 5MHz, QPSK, 15HHz) 5G NR FR1 PDD 5.80 49.8 10939 AAC 5G NR IDFF=OFDM, 50K BR, 5MHz, QPSK, 15HHz) 5G NR FR1 PDD 5.80 49.8 10941 AAC 5G NR IDFF=OFDM, 50K BR, 5MHz, QPSK, 15HHz) 5G NR FR1 PDD 5.89 49.8 10942 AAC 5G NR IDFF=OFDM, 50K BR, 5MHz, QPSK, 15HHz) 5G NR FR1 PDD 5.89 49.8 10944 AAC 5G NR IDFF=OFDM, 50K BR, 5MHz, QPSK, 15HHz) 5G NR FR1 PDD 5.89 49.8 10944 AAC <	1			5G NR FR1 FDD	5.52	±9.6
10922 AAC 6 ON R (DFT=OFDM, 11 RB, 20 MHz, OPSK, 15 MHz) 6 G NN R FRI FDD 5.51 19.8 10933 AAC 5G NN R (DFT=OFDM, 11 RB, 40 MHz, QPSK, 15 MHz) 5G NN R FRI FDD 5.51 19.8 10934 AAC 5G NN R (DFT=OFDM, 11 RB, 50 MHz, QPSK, 15 MHz) 5G NN R FRI FDD 5.51 19.8 10935 AAD 5G NN R (DFT=OFDM, 50 % RB, 50 MHz, QPSK, 15 MHz) 5G NN R FRI FDD 5.90 19.6 10937 AAD 5G NN R (DFT=OFDM, 50 % RB, 10 MHz, QPSK, 15 MHz) 5G NN R FRI FDD 5.90 19.6 10938 AAC 5G NN R (DFT=OFDM, 50 % RB, 20 MHz, QPSK, 15 MHz) 5G NN R FRI FDD 5.82 19.6 10940 AAC 5G NN R (DFT=OFDM, 50 % RB, 20 MHz, QPSK, 15 MHz) 5G NN R FRI FDD 5.83 19.6 10940 AAC 5G NN R (DFT=OFDM, 50 % RB, 20 MHz, QPSK, 15 MHz) 5G NN R FRI FDD 5.83 19.6 10944 AAC 5G NN R (DFT=OFDM, 50 % RB, 50 MHz, QPSK, 15 MHz) 5G NN R FRI FDD 5.84 19.6 10944 AAD 5G NN R (DFT=OFDM, 100 % RB, 50 MHz, QPSK, 15 MHz) 5G NN R FRI FDD 5.84 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>±9.6</td></td<>						±9.6
10333 AAC 55 NR [PF1-CPGM, 1 BB, 30 MHz, QPSK, 15 KHz] 56 NR PF1 FDD 5.51 19.8 10381 AAC 56 NR (DFT-s-OFDM, 1 BB, 30 MHz, QPSK, 15 KHz) 56 NR PF1 FDD 5.51 19.8 10381 AAD 56 NR (DFT-s-OFDM, 1 BB, 50 MHz, QPSK, 15 KHz) 56 NN FF1 FDD 5.77 19.8 10393 AAD 56 NR (DFT-s-OFDM, 50%, BB, 5 MHz, QPSK, 15 KHz) 56 NN FF1 FDD 5.77 19.8 10393 AAC 56 NR (DFT-s-OFDM, 50%, BB, 15 MHz, QPSK, 15 KHz) 56 NN FF1 FDD 5.80 19.8 10393 AAC 56 NR (DFT-s-OFDM, 50%, BB, 15 MHz, QPSK, 15 KHz) 56 NN FF1 FDD 5.80 19.8 10394 AAC 56 NR (DFT-s-OFDM, 50%, BB, 20 MHz, QPSK, 15 KHz) 56 NN FF1 FDD 5.83 19.6 10394 AAC 56 NR (DFT-s-OFDM, 50%, BB, 20 MHz, QPSK, 15 KHz) 56 NN FF1 FDD 5.85 19.6 10394 AAD 56 NR (DFT-s-OFDM, 50%, RB, 50 MHz, QPSK, 15 KHz) 56 NN FF1 FDD 5.85 19.6 10344 AAD 56 NR (DFT-s-OFDM, 100%, RB, 10 MHz, QPSK, 15 KHz) 56 NN FF1 FDD 5.85 19.8 <						±9.6
1033 AAC SG NR [PET-OPDM, 1RB, 40 MHz, OPSK, 15 MHz] SG NR PERI FDD 5.51 19.6 10385 AAD SG NR (PET-OPDM, 1BG, SG MHz, OPSK, 15 MHz) SG NR PERI FDD 5.51 19.6 10386 AAD SG NR (PET-OPDM, 50% RB, 5MHz, OPSK, 15 MHz) SG NR PERI FDD 5.50 19.6 10387 AAD SG NR (PET-OFDM, 50% RB, 10 MHz, OPSK, 15 MHz) SG NR PERI FDD 5.80 19.6 10393 AAC SG NR (PET-OFDM, 50% RB, 20 MHz, OPSK, 15 MHz) SG NR PERI FDD 5.82 19.6 10940 AAC SG NR (PET-OFDM, 50% RB, 20 MHz, OPSK, 15 MHz) SG NR PERI FDD 5.83 19.6 10941 AAC SG NR (PET-OFDM, 50% RB, 20 MHz, OPSK, 15 MHz) SG NR PERI FDD 5.83 19.6 10942 AAC SG NR (PET-OFDM, 50% RB, 30 MHz, OPSK, 15 MHz) SG NR PERI FDD 5.85 19.6 10944 AAD SG NR (PET-OFDM, 100% RB, 50 MHz, QPSK, 15 MHz) SG NR PERI FDD 5.85 19.6 10946 AAD SG NR (DET-OFDM, 100% RB, 20 MHz, QPSK, 15 MHz) SG NR PERI FDD 5.83 19.6				5G NR FR1 FDD	5.51	±9.6
10935 AD 5G NR (DFT=0-OPDM, 5FB, 5G MHz, QPSK, 15KHz) 5G NR FRI FDD 5.51 49.6 10936 AAD 5G NR (DFT=0-OPDM, 55% RB, 5MHz, QPSK, 15KHz) 5G NR FRI FDD 5.77 4.9.6 10937 AAD 5G NR (DFT=0-OPDM, 55% RB, 10MHz, QPSK, 15KHz) 5G NR FRI FDD 5.90 4.9.6 10938 AAC 5G NR (DFT=0-OPDM, 55% RB, 10MHz, QPSK, 15KHz) 5G NR FRI FDD 5.82 49.6 10941 AAC 5G NR (DFT=0-OPDM, 55% RB, 20MHz, QPSK, 15KHz) 5G NR FRI FDD 5.83 49.6 10942 AAC 5G NR (DFT=0-OPDM, 55% RB, 30MHz, QPSK, 15KHz) 5G NR FRI FDD 5.83 49.6 10944 AAD 5G NR (DFT=0-OPDM, 55% RB, 50MHz, QPSK, 15KHz) 5G NR FRI FDD 5.81 49.6 10944 AAD 5G NR (DFT=0-OPDM, 105% RB, 15MHz, QPSK, 15KHz) 5G NR FRI FDD 5.81 49.6 10944 AAD 5G NR (DFT=0-OPDM, 105% RB, 15MHz, QPSK, 15KHz) 5G NR FRI FDD 5.81 49.6 10944 AAC 5G NR (DFT=0-OPDM, 105% RB, 20MHz, QPSK, 15KHz) 5G NR FRI FDD 5.81 49.6 10				5G NR FRI FDD	5.51	±9.6
10337 AAD 5G NR [DFTs-OFDM, 50% RB, 10 MHz, QPSK, 15KHz] 5G NR FR1 FDD 5.77 19.6 10383 AAC 5G NR (DFTs-OFDM, 50% RB, 10 MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.82 19.6 10393 AAC 5G NR (DFTs-OFDM, 50% RB, 20 MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.82 19.6 10401 AAC 5G NR (DFTs-OFDM, 50% RB, 20 MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.83 19.6 10942 AAC 5G NR (DFTs-OFDM, 50% RB, 30 MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.85 19.6 10944 AAC 5G NR (DFTs-OFDM, 50% RB, 50 MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.81 19.6 10944 AAD 5G NR (DFTs-OFDM, 100% RB, 5MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.81 19.6 10944 AAC 5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.82 19.6 10944 AAC 5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.87 19.6 10944 AAC 5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.87 19.6 10944 AAC 5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15KHz) 5G NR FR1				5G NR FR1 FDD	5.51	±9.6
10338 AAC SG NR (DFTs-OFDM, 50%, RB, 10H/z, OPSK, 15KHz) 5G NR FR1 FDD 5.82 ±9.6 10339 AAC SG NR (DFTs-OFDM, 50%, RB, 20H/z, OPSK, 15KHz) SG NR FR1 FDD 5.82 ±9.6 10340 AAC SG NR (DFTs-OFDM, 50%, RB, 25MHz, OPSK, 15KHz) SG NR FR1 FDD 5.83 ±9.6 10341 AAC SG NR (DFTs-OFDM, 50%, RB, 20H/z, OPSK, 15KHz) SG NR FR1 FDD 5.83 ±9.6 10342 AAD SG NR (DFTs-OFDM, 105%, RB, 40H/z, OPSK, 15KHz) SG NR FR1 FDD 5.85 ±9.6 10343 AAD SG NR (DFTs-OFDM, 105%, RB, 10H/z, OPSK, 15KHz) SG NR FR1 FDD 5.81 ±9.6 10344 AAD SG NR (DFTs-OFDM, 105%, RB, 10H/z, OPSK, 15KHz) SG NR FR1 FDD 5.84 ±9.6 10344 AAC SG NR (DFTs-OFDM, 105%, RB, 10H/z, OPSK, 15KHz) SG NR FR1 FDD 5.84 ±9.6 10344 AAC SG NR (DFTs-OFDM, 105%, RB, 20H/z, OPSK, 15KHz) SG NR FR1 FDD 5.84 ±9.6 10347 AAC SG NR (DTTs-OFDM, 105%, RB, 20H/z, OPSK, 15KHz) SG NR FR1 FDD 5.94 ±9.6 <		AAD		5G NR FR1 FDD	5.90	±9.6
10333 AAC 5G NR (DFT ₈ -OFDM, 50%, RB, 20 MHz, QPSK, 15 KHz) 5G NR FRI FDD 5.82 ±9.6 10494 AAC 5G NR (DFT ₈ -OFDM, 50%, RB, 20 MHz, QPSK, 15 KHz) 5G NR FRI FDD 5.83 ±9.6 10494 AAC 5G NR (DFT ₈ -OFDM, 50%, RB, 30 MHz, QPSK, 15 KHz) 5G NR FRI FDD 5.83 ±9.6 10942 AAC 5G NR (DFT ₈ -OFDM, 50%, RB, 30 MHz, QPSK, 15 KHz) 5G NR FRI FDD 5.85 ±9.6 10943 AAD 5G NR (DFT ₈ -OFDM, 100% RB, 5MHz, QPSK, 15 KHz) 5G NR FRI FDD 5.85 ±9.6 10944 AAD 5G NR (DFT ₈ -OFDM, 100% RB, 5MHz, QPSK, 15 KHz) 5G NR FRI FDD 5.81 ±9.6 10944 AAC 5G NR (DFT ₈ -OFDM, 100% RB, 5MHz, QPSK, 15 KHz) 5G NR FRI FDD 5.84 ±9.6 10944 AAC 5G NR (DFT ₈ -OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FRI FDD 5.87 ±9.6 10944 AAC 5G NR (DFT ₈ -OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FRI FDD 5.87 ±9.6 10945 AAC 5G NR (DFT ₈ -OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FRI FDD 5.87 ±9.6 10945 AAC 5G NR (DFT ₈ -OFDM, 100% RB, 20 MHz, QPSK				5G NR FR1 FDD	5.77	±9.6
10380 AAC GS NR (DFT=-OFDM, 50% RB, 20MHz, OPSK, 15kHz) SG NR (FR1 FDD 5.82 19.6 10940 AAC SG NR (DFT=-OFDM, 50% RB, 20MHz, QPSK, 15kHz) SG NR (FR1 FDD 5.83 19.6 10941 AAC SG NR (DFT=-OFDM, 50% RB, 30MHz, QPSK, 15kHz) SG NR FR1 FDD 5.83 19.6 10942 AAC SG NR (DFT=-OFDM, 50% RB, 30MHz, QPSK, 15kHz) SG NR FR1 FDD 5.83 19.6 10944 AAD SG NR (DFT=-OFDM, 50% RB, 50MHz, QPSK, 15kHz) SG NR FR1 FDD 5.81 19.6 10944 AAD SG NR (DFT=-OFDM, 100% RB, 50MHz, QPSK, 15kHz) SG NR FR1 FDD 5.81 19.6 10944 AAD SG NR (DFT=-OFDM, 100% RB, 10MHz, QPSK, 15kHz) SG NR FR1 FDD 5.81 19.6 10944 AAD SG NR (DFT=-OFDM, 100% RB, 20MHz, QPSK, 15kHz) SG NR FR1 FDD 5.84 19.6 10944 AAC SG NR (DFT=-OFDM, 100% RB, 20MHz, QPSK, 15kHz) SG NR FR1 FDD 5.87 19.6 10944 AAC SG NR (DFT=-OFDM, 100% RB, 20MHz, QPSK, 15kHz) SG NR FR1 FDD 5.87 19.6 10945<	10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10941 AAC SG NR (DFT=-OFDM, 50% RB, 30MHz, QPSK, 15 KHz) 5G NR FN1 FDD 5.83 ±9.6 10942 AAC SG NR (DFT=-OFDM, 50% RB, 30MHz, QPSK, 15 KHz) SG NR RFN1 FDD 5.85 ±9.6 10943 AAD SG NR (DFT=-OFDM, 100% RB, 50MHz, QPSK, 15 KHz) SG NR FN1 FDD 5.81 ±9.6 10944 AAD SG NR (DFT=-OFDM, 100% RB, 50MHz, QPSK, 15 kHz) SG NR FN1 FDD 5.84 ±9.6 10946 AAC SG NR (DFT=-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) SG NR FN1 FDD 5.84 ±9.6 10947 AAC SG NR (DFT=-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) SG NR FN1 FDD 5.87 ±9.6 10948 AAC SG NR (DFT=-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) SG NR FN1 FDD 5.87 ±9.6 10949 AAC SG NR (DFT=-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) SG NR FN1 FDD 5.82 ±9.6 10949 AAC SG NR (DFT=-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) SG NR FN1 FDD 5.82 ±9.6 10951 AAD SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) SG NR FN1 FDD 5.82 ±9.6 <tr< td=""><td>10939</td><td>AAC</td><td></td><td>5G NR FR1 FDD</td><td>5.82</td><td>±9.6</td></tr<>	10939	AAC		5G NR FR1 FDD	5.82	±9.6
10942 AAC SG NR (DFT-s-OFDM, 50% RB, 40MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.85 ±9.6 10943 AAD SG NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 15 kHz) SG NR FR1 FDD 5.81 ±9.6 10944 AAD SG NR (DFT-s-OFDM, 100% RB, 10MHz, QPSK, 15 kHz) SG NR FR1 FDD 5.85 ±9.6 10946 AAC SG NR (DFT-s-OFDM, 100% RB, 110MHz, QPSK, 15 kHz) SG NR FR1 FDD 5.83 ±9.6 10947 AAC SG NR (DFT-s-OFDM, 100% RB, 20 Hz, QPSK, 15 kHz) SG NR FR1 FDD 5.87 ±9.6 10948 AAC SG NR (DFT-s-OFDM, 100% RB, 20 Hz, QPSK, 15 kHz) SG NR FR1 FDD 5.94 ±9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 20 Hz, QPSK, 15 kHz) SG NR FR1 FDD 5.97 ±9.6 10950 AAC SG NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) SG NR FR1 FDD 5.92 ±9.6 10952 AAA SG NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-OAM, 15 kHz) SG NR FR1 FDD 8.25 ±9.6 10952 AAA SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-OAM, 30 kHz) SG NR FR1 FDD 8.23 ±9.6	10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10943 AAD 5G NR (DFTs-OFDM, 50% RB, 50MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.95 19.6 10944 AAD 5G NR (DFTs-OFDM, 100% RB, 5MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.61 ±9.6 10945 AAC 5G NR (DFTs-OFDM, 100% RB, 15MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.85 ±9.6 10946 AAC 5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.83 ±9.6 10947 AAC 5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.87 ±9.6 10948 AAC 5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.94 ±9.6 10949 AAC 5G NR (DFTs-OFDM, 100% RB, 30MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.94 ±9.6 10951 AAD 5G NR (DFTs-OFDM, 100% RB, 30MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.92 ±9.6 10952 AAA 5G NR CPTs-OFDM, 100% RB, 30MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.92 ±9.6 10952 AAA 5G NR CPTs-OFDM, 100% RB, 30MHz, QPSK, 15KHz) 5G NR FR1 FDD 8.22 ±9.6 10956 AAA 5G NR TR1 FDD 5.92 ±9.6 10956	10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10944 AAD 5G NR (DFTa-OFDM, 100% RB, 5MHz, OPSK, 15kHz) 5G NR FR1 FDD 5.81 ±9.6 10945 AAD 5G NR (DFTa-OFDM, 100% RB, 10MHz, OPSK, 15kHz) 5G NR FR1 FDD 5.85 ±9.6 10946 AAC 5G NR (DFTa-OFDM, 100% RB, 20MHz, OPSK, 15kHz) 5G NR FR1 FDD 5.83 ±9.6 10947 AAC 5G NR (DFTa-OFDM, 100% RB, 20MHz, OPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10948 AAC 5G NR (DFTa-OFDM, 100% RB, 20MHz, OPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10949 AAC 5G NR (DFTa-OFDM, 100% RB, 30MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10959 AAC 5G NR (DFTa-OFDM, 100% RB, 30MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.92 ±9.6 10952 AAA 5G NR DL (OP-OFDM, TM 3.1, 104Kz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.42 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.42 ±9.6 <t< td=""><td>10942</td><td>AAC</td><td>5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 FDD</td><td>5.85</td><td>±9.6</td></t<>	10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10945 AAD 5G NR (DFT=OFDM, 100% RB, 10MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.85 ±9.6 10946 AAC 5G NR (DFT=OFDM, 100% RB, 15MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10947 AAC 5G NR (DFT=OFDM, 100% RB, 20MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10948 AAC 5G NR (DFT=OFDM, 100% RB, 20MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10949 AAC 5G NR (DFT=OFDM, 100% RB, 20MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10950 AAC 5G NR (DFT=OFDM, 100% RB, 40MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.92 ±9.6 10951 AAD 5G NR RD (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.15 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.15 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.14 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.14 ±9.6 10956	10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10946 AAC 5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 15kHz) 5G NR FRI FDD 5.83 ±9.6 10947 AAC 5G NR (DFT-s-OFDM, 100% RB, 20MHz, QPSK, 15kHz) 5G NR FRI FDD 5.87 ±9.6 10948 AAC 5G NR (DFT-s-OFDM, 100% RB, 20MHz, QPSK, 15kHz) 5G NR FRI FDD 5.94 ±9.6 10949 AAC 5G NR (DFT-s-OFDM, 100% RB, 30MHz, QPSK, 15kHz) 5G NR FRI FDD 5.94 ±9.6 10950 AAC 5G NR (DFT-s-OFDM, 100% RB, 30MHz, QPSK, 15kHz) 5G NR FRI FDD 5.92 ±9.6 10951 AAD 5G NR (DFT-s-OFDM, 100% RB, 50MHz, QPSK, 15kHz) 5G NR FRI FDD 5.92 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 10KHz, 64-QAM, 15kHz) 5G NR FRI FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10KHz, 64-QAM, 15kHz) 5G NR FRI FDD 8.42 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 10KHz, 64-QAM, 30kHz) 5G NR FRI FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 10KHz, 64-QAM, 30kHz) 5G NR FRI FDD 8.31 ±9.6	10944	AAD	5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.81	±9.6
10947 AAC 5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10948 AAC 5G NR (DFTs-OFDM, 100% RB, 25MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10949 AAC 5G NR (DFTs-OFDM, 100% RB, 30MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10950 AAC 5G NR (DFTs-OFDM, 100% RB, 40MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.92 ±9.6 10951 AAD 5G NR (DFTs-OFDM, 100% RB, 50MHz, QPSK, 15kHz) 5G NR FR1 FDD 8.25 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.25 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.31 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.31 ±9.6	10945	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		±9.6
10948 AAC SG NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.94 ±9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.87 ±9.6 10950 AAC SG NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.92 ±9.6 10951 AAD SG NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 KHz) SG NR FR1 FDD 8.25 ±9.6 10952 AAA SG NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 KHz) SG NR FR1 FDD 8.23 ±9.6 10955 AAA SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) SG NR FR1 FDD 8.42 ±9.6 10955 AAA SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz) SG NR FR1 FDD 8.42 ±9.6 10956 AAA SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz) SG NR FR1 FDD 8.41 ±9.6 10957 AAA SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz) SG NR FR1 FDD 8.41 ±9.6 10957 AAA SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz) SG NR FR1 FDD 8.61 ±9.6	10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	1 9.6
10949 AC 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.87 ±9.6 10950 AAC 5G NR (DFTs-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ±9.6 10951 AAD 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.92 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-OAM, 15 kHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-OAM, 15 kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-OAM, 15 kHz) 5G NR FR1 FDD 8.14 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-OAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-OAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-OAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-OAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 <	10947	AAC				
10950 AAC 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ±9.6 10951 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.92 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10960 AAE 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-		AAC				
10951 AAD 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.92 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.15 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.42 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 Hz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.33 ±9.6 10950 AAE 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAC 5G NR DL (CP-OFDM, TM 3.1, 20 Hz, 64-QA						
10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.15 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.42 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.32 ±9.6 10960 AAE 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAC 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.32 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64						
10953 AAA 5G NR PL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.15 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.61 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.33 ±9.6 10960 AAE 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 KHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAC 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 TDD 9.32 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz) 5G NR FR1 TDD 9.32 ±9.6 10964 AAE 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-					ſ	
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10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDR94 ULLA 3.19 ±9.6						
10981 AAA ULLA HDRp4 ULLA 3.19 ±9.6				ULLA	10.32	±9.6
10982 AAA ULLA HDRp8 ULLA 3.43 ±9.6	10981	AAA	ULLA HDRp4	ULLA	3.19	±9.6
	10982	AAA	ULLA HDRp8	ULLA	3.43	±9.6

UD	Rev	Communication System Name	Group	PAR (dB)	Unc ^E <i>k</i> = 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	±9.6
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	±9.6
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	±9.6
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	6.40	±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

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

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





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Accreditation No.: SCS 0108

Client	Element Morgan Hill, USA		Certificate No.	EX-3949_Sep24
CAL	IBRATION C	ERTIFICATE		
Object		EX3DV4 - SN:3949		9/1712024
Calibral	ion procedure(s)	QA CAL-01.v10, QA CAL-1 QA CAL-25.v8 Calibration procedure for de		
Calibrat	ion date	September 09, 2024		
		cuments the traceability to national standa incertainties with confidence probability ar	•	, , , , , , , , , , , , , , , , , , , ,
All calib	rations have been co	nducted in the closed laboratory facility: er	wironment temperature ((22 ± 3) °C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	D D	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
OCP DAK-3.5 (weighted)	SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Ocl23)	Ocl-24
OCP DAK-12	SN: 1016	05-Oct-23 (OCP-DAK12-1016_Oct23)	Oct-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	26-Mar-24 (No. 217-04046)	Mar-25
DAE4	SN: 660	23-Feb-24 (No. DAE4-660_Feb24)	Feb-25
Reference Probe EX3DV4	SN: 7349	03-Jun-24 (No. EX3-7349_Jun24)	Jun-25

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
Power sensor E4412A	SN: 000110210	06-Apr-16 (In house check Jun-24)	In house check: Jun-26
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-24)	in house check: Jun-26
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Ocl-22)	In house check: Oct-24

	Name	Function	Signature
Calibrated by	Joanna Lleshaj	Laboratory Technician	thaller
Approved by	Sven Kühn	Technical Manager	Sila
This calibration certific	ate shall not be reproduced except in ful	without written approval of the lab	Issued: September 09, 2024 oratory.

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



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Glossarv

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	arphi rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ 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 $\vartheta = 0$ ($f \le 900$ 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 $f \le 800$ 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).

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (<i>k</i> = 2)
Norm $(\mu V/(V/m)^2)^A$	0.65	0.42	0.50	±10,1%
DCP (mV) ^B	105.5	102.0	101.6	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		Α	B	С	D	VR	Max	Max
			dB	dBõV		dB	mV	dev.	UncE
					L				<i>k</i> = 2
0	cw	X	0.00	0.00	1.00	0.00	137,9	±0.9%	±4.7%
		Y	0.00	0.00	1.00		144.8		
		_ Z	0.00	0.00	1.00		147,5		
10352	Pulse Waveform (200Hz, 10%)	Х	1.65	61.18	6.84	10.00	60.0	±2.9%	±9.6%
		Y	96.00	112.00	27.00		60.0		
		Z	20.00	93.47	22.57		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	0.78	60.00	5.08	6.99	80.0	±2.1%	±9.6%
		Ý	20.00	93.19	21.15		80.0		
		Z	20.00	94.04	22.00		80,0		
10354	Pulse Waveform (200Hz, 40%)	X	0.13	133.92	0.62	3.98	95.0	±2.6%	±9.6%
		Y	20.00	95.87	21.01		95.0	1	
		Z	20.00	98.01	22.78		95.0	1	
10355	Pulse Waveform (200Hz, 60%)	X	0.34	60.00	2.73	2.22	120.0	±1.4%	±9.6%
		Y	20.00	100.45	21.90		120.0		
		Z	20.00	104.79	24.7 9		120.0		
10387	QPSK Waveform, 1 MHz	X	0.64	64.22	12.85	1.00	150.0	±3.5%	±9.6%
		Y	1.74	65.00	14.69		150.0		
		Z	1.78	66.43	15.43		150.0		
10388	QPSK Waveform, 10 MHz	X	1.42	65.87	14.14	0.00	150.0	±1.3%	±9.6%
		Y	2.25	67.39	15.31		150.0		
		Z	2.36	68.57	16.11		150.0		
10396	64-QAM Waveform, 100 kHz	X	1.59	63.29	15.41	3.01	150.0	±1.2%	±9.6%
		Y	3.03	70.21	18.45		150.0		
		Z	3.10	71.27	19.27		150.0		
10399	64-QAM Waveform, 40 MHz	X	2.88	66.20	15.09	0.00	150.0	±1.5%	±9.6%
		Y	3.56	66.98	15.61		150.0		
		Ζ	3.62	67.46	16.00		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	3.88	65.79	15.22	0.00	150.0	±3.0%	±9.6%
		Y	4.81	64.95	15.10	-	150.0		
		Z	4.80	65.21	15.34		150.0		

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%.

^A The uncertainties of Norm X,Y,Z do not affect the E^2 -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.

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 msV ^{⊸2}	T2 msV ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	T6
x	10.8	77.55	33.07	1.18	0.00	4.90	0.03	0.02	1.00
У	58.4	430.42	34.69	14.76	0.59	5.04	1.27	0.27	1.01
Z	49.5	365.91	34.94	25.99	0.12	5.10	1.28	0.24	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-83.0°
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.

Conductivity^F Alpha^G Depth^G Unc^H f (MHz)^C ConvF Z ConvF X ConvF Y Relative Permittivity^F (mm) (k = 2)(S/m) 750 41.9 0.89 9.46 10.31 10.51 0.39 1.27 ±11.0% ±11.0% 835 41.5 0.90 9.06 9.88 10.07 0.39 1.27 1750 1.37 7.90 8.60 0.34 ±11.0% 40.1 8.41 1.27 0.34 1.27 1900 40.0 1.40 7,64 8.33 8.14 ±11.0% 1.67 7,47 2300 39,5 8.14 7.96 0.33 1,27 ±11.0% 2450 39.2 1.80 7.19 7.84 7.66 0.33 1.27 ±11.0% 2600 39.0 1.96 7.25 7.90 7.72 0.33 1.27 ±11.0%

Calibration Parameter Determined in Head Tissue Simulating Media

^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 $\pm 10, 25, 40, 50$ 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 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.

and are valid for TSL with deviations of up to $\pm 10\%$ 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 $\pm 1\%$ for frequencies below 3 GHz and below $\pm 2\%$ for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

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

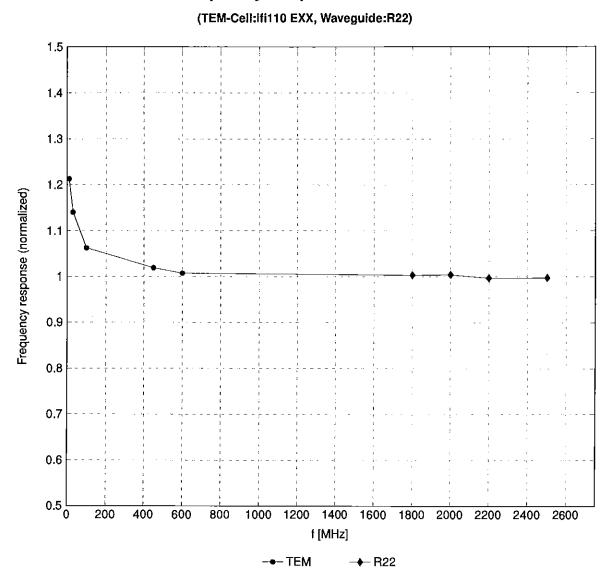
Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc ^H (<i>k</i> = 2)
6500	34.5	6.07	5.23	5.70	5.57	0.20	1.27	±18.6%
8000	32.7	7.84	5.56	6.06	5.92	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 frequency and the uncertainty for the indicated frequency band. ^F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than $\pm 10\%$ from the target values (typically better than $\pm 6\%$)

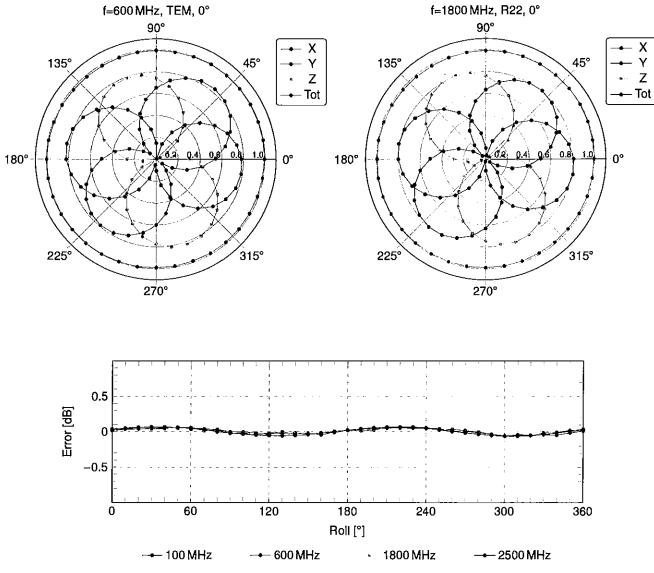
and are valid for TSL with deviations of up to $\pm 10\%$. ^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than $\pm 1\%$ for frequencies below 3 GHz; below $\pm 2\%$ for frequencies between 3–6 GHz; and below $\pm 4\%$ 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.



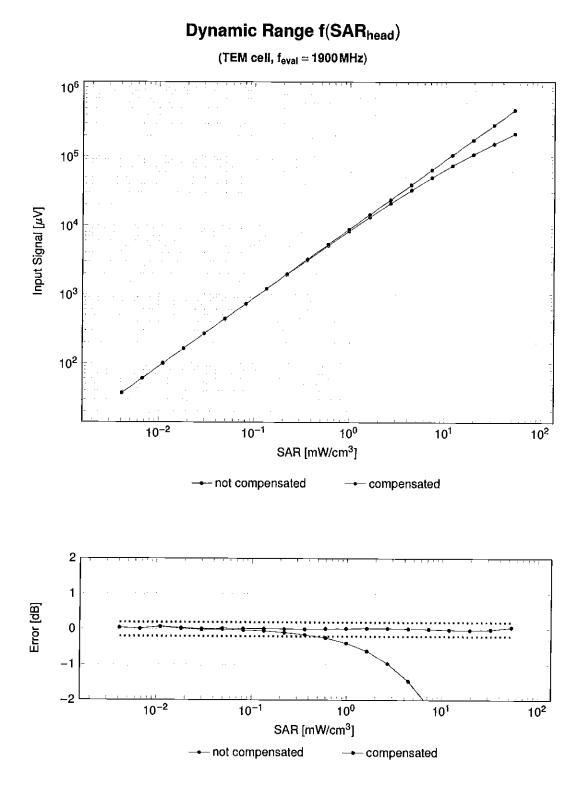
Frequency Response of E-Field

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



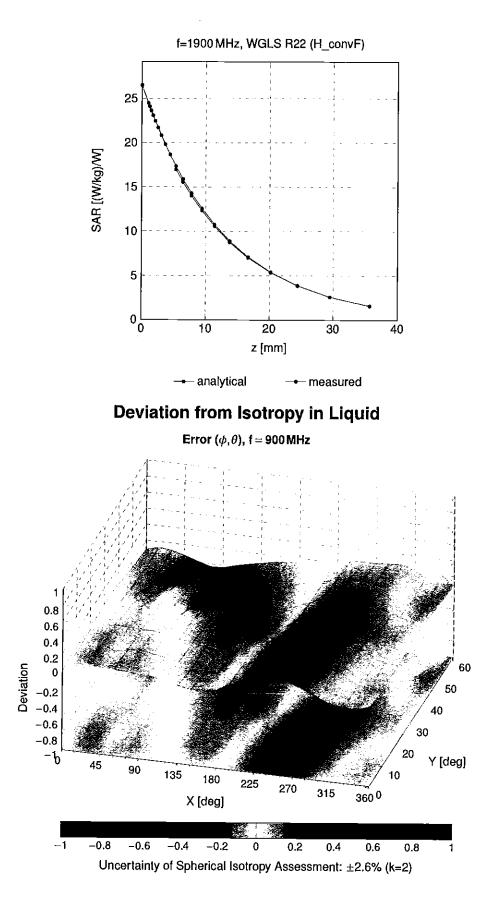
Receiving Pattern (ϕ **),** $\vartheta = 0^{\circ}$

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



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





Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
0		CW	CW	0.00	±4.7
10010	_	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012		IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
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	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
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	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.18	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PV4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (Pl/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
10037	CAA	IEEE 802.15.1 Bluelooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000		
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)		4.57	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	7.78	±9.6
10044	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	AMPS	0.00	±9.6
10048	CAA		DECT	13.80	±9.6
10049		DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10058	DAC	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
		EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2,12	±9.6
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	<u>±9.6</u>
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
10062	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAE		WLAN	9.09	±9.6
10065	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAE	IEEE 802,11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10073	CAB	IEEE 802 11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10,30	±9.6
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10076	CAB	IEEE 802,11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9,6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10098	CAC	UMTS-FDD (HSUPA, Sublest 2)	WCDMA	3.98	±9.6
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TOD	9.29	±9.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
10105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10109			1 1 1 1 1 1 1 1 1 1 1	n a.t	TH D
10109 10110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10112	CAH		LTE-FDD	6.59	±9.6
10113	CAH		LTE-FDD	6.62	±9.6
10114	CAE	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAE	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8,46	±9.6
10116	CAE	IEEE 802,11n (HT Greenlield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10117	CAE	IEEE 802.11n (HT Mixed, 13,5 Mbps, BPSK)	WLAN	8.07	±9.6
10118	CAE	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6
10119	CAE	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8,13	±9.6
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	 ±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6,35	±9.6
10144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5,75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5,79	±9,6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6,56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	<u>+9.6</u>
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.21	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	6.79	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	5.73	±9.6
10170	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD LTE-FDD	6.52 6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TOD	9,21	±9.6 ±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9,48	±9.6
10174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-FDD	5.73	±9.6
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6
10182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9,6
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10187	ĊAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5,73	±9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
10194	CAE	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
10195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
10197	CAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
10198	CAE	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
10219	CAE	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6
10220	CAE	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
10221	CAE CAE	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.27	±9.6
10222	CAE	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
10223	CAE	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6
			WLAN	8.08	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10225	_	UMTS-FDD (HSPA+)	WCDMA	5,97	± 9.6
10226		LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6
10227	_	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)		10.26	±9.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9,22	±9.6
10229		LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.22	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	9.40	±9.6
10231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)		9,19	±9.6
10232		LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.19	±9.6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)		10.25	±9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9,21	±9.6
10235	CAH		LTE-TDD	9.48	±9.6
10236	CAH		LTE-TDD	10.25	±9.6
10237	CAH			9.21	±9.6
10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-TDD	9,21	±9,6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)		9.86	±9.6 ±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)		9.46	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.30	±9.6
10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6 ±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.29	±9.6 ±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)		9.24	±9.6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9,20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.20	±9.6
10257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)		10.08	<u>±9.6</u>
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TOD	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TOD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)		9.97	±9.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-TDD	9.83	±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9,6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK)	LTE-TDD	9.23	±9,6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6
10267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TOD	9.30	±9.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6
10270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.6
10274	CAC	UMTS-FDD (HSUPA, Sublest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6
10275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
10277	CAA	PHS (QPSK)	PHS	11.81	±9.6
10278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11,81	±9.6
10279	CÂA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12,18	±9,6
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3,39	±9.6
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6
10298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
10299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10301	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WIMAX	12.03	±9.6
					±9,6
10302	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WiMAX	12.57	79'0 I
10303	AAA	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)		12.57	±9.6
10303 10304	AAA AAA	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC) IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)		_	
10303	AAA AAA AAA	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WIMAX	12.52	±9.6

UID	Dev	Communication Duration Name			
	Rev	Communication System Name	Group	PAR (dB)	Unc ^E <i>k</i> = 2
10307		IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	±9.6
10308		IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WiMAX	14.46	±9.6
10309		IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	±9.6
10310	_	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		IDEN 1:3	IDEN	10.51	±9.6
10314		iDEN 1:6	iDEN	13.48	±9.6
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10317	AAE	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9,6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0,97	±9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	
10396		64-QAM Wavelorm, 100 kHz			±9.6
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10333			Generic	6.27	±9.6
		IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
10401	AAF	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10402	AAF	IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5,22	±9.6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9,6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±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	8.14	±9.6
10419	AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	<u>±9.6</u>
10422	AAD	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	±9.6
10423	AAD	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN		
10424	AAD	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)		8.47	±9.6
10425	AAD	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)		8.40	±9.6
10426	AAD	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.41	±9.6
10427	AAD		WLAN	8,45	±9.6
10427	AAE	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6
		LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	<u>±9.6</u>
10432	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	±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	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9.6
10450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453		Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
	AAE				±0.0
10456	AAE AAD			++	+0 F
10456 10457	_	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA)	WLAN	8.63	±9.6
10457	AAD	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA)	WLAN WCDMA	8.63 6.62	±9.6
10457 10458	AAD AAB AAA	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	WLAN WCDMA CDMA2000	8.63 6.62 6.55	±9.6 ±9.6
10457 10458 10459	AAD AAB AAA AAA	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	WLAN WCDMA CDMA2000 CDMA2000	8.63 6.62 6.55 8.25	+9.6 +9.6 +9.6
10457 10458 10459 10460	AAD AAB AAA AAA AAB	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR)	WLAN WCDMA CDMA2000 CDMA2000 WCDMA	8.63 6.62 6.55 8.25 2.39	+9.6 +9.6 +9.6 +9.6
10457 10458 10459 10460 10461	AAD AAB AAA AAA AAB AAC	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	WLAN WCDMA CDMA2000 CDMA2000 WCDMA LTE-TDD	8,63 6,62 6,55 8,25 2,39 7,82	+9.6 +9.6 +9.6 +9.6 +9.6
10457 10458 10459 10460 10461 10462	AAD AAB AAA AAA AAB AAC AAC	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	WLAN WCDMA CDMA2000 CDMA2000 WCDMA LTE-TDD LTE-TDD	8.63 6.62 6.55 8.25 2.39 7.82 8.30	+9.6 +9.6 +9.6 +9.6 +9.6 +9.6 +9.6
10457 10458 10459 10460 10461 10462 10463	AAD AAB AAA AAA AAB AAC AAC AAC	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	WLAN WCDMA CDMA2000 CDMA2000 WCDMA LTE-TDD LTE-TDD LTE-TDD	8.63 6.62 6.55 8.25 2.39 7.82 8.30 8.56	$ \begin{array}{r} \pm 9.6 \\ \end{array} $
10457 10458 10459 10460 10461 10462 10463 10464	AAD AAB AAA AAA AAB AAC AAC AAC AAD	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	WLAN WCDMA CDMA2000 CDMA2000 WCDMA LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	8.63 6.62 6.55 8.25 2.39 7.82 8.30	+9.6 +9.6 +9.6 +9.6 +9.6 +9.6 +9.6
10457 10458 10459 10460 10461 10462 10463 10464 10465	AAD AAB AAA AAA AAB AAC AAC AAC AAD AAD	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	WLAN WCDMA CDMA2000 CDMA2000 WCDMA LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	8.63 6.62 6.55 8.25 2.39 7.82 8.30 8.56	$ \begin{array}{r} \pm 9.6 \\ \end{array} $
10457 10458 10459 10460 10461 10462 10463 10464 10465 10466	AAD AAB AAA AAA AAA AAC AAC AAC AAD AAD AAD	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	WLAN WCDMA CDMA2000 CDMA2000 WCDMA LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	8.63 6.62 6.55 8.25 2.39 7.82 8.30 8.56 7.82	$ \begin{array}{r} \pm 9.6 \\ \end{array} $
10457 10458 10459 10460 10461 10462 10463 10464 10465 10466 10467	AAD AAB AAA AAA AAA AAC AAC AAC AAD AAD AAD AAD	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	WLAN WCDMA CDMA2000 CDMA2000 WCDMA LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	8.63 6.62 6.55 8.25 2.39 7.82 8.30 8.56 7.82 8.32	$ \begin{array}{r} \pm 9.6 \\ \end{array} $
10457 10458 10459 10460 10461 10462 10463 10464 10465 10466 10467 10468	AAD AAB AAA AAA AAA AAC AAC AAC AAC AAD AAD AAD	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)	WLAN WCDMA CDMA2000 CDMA2000 WCDMA LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	8.63 6.62 6.55 8.25 2.39 7.82 8.30 8.56 7.82 8.32 8.57	$ \begin{array}{r} \pm 9.6 \\ \end{array} $
10457 10458 10459 10460 10461 10462 10463 10464 10465 10466 10467 10468 10469	AAD AAB AAA AAA AAA AAC AAC AAC AAC AAD AAD AAD	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	WLAN WCDMA CDMA2000 CDMA2000 WCDMA LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	8.63 6.62 6.55 8.25 2.39 7.82 8.30 8.56 7.82 8.32 8.57 7.82	$ \begin{array}{r} \pm 9.6 \\ \end{array} $
10457 10458 10459 10460 10461 10462 10463 10464 10465 10466 10467 10468	AAD AAB AAA AAA AAA AAC AAC AAC AAC AAD AAD AAD	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA) CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)	WLAN WCDMA CDMA2000 CDMA2000 WCDMA LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	8.63 6.62 6.55 8.25 2.39 7.82 8.30 8.56 7.82 8.32 8.57 7.82 8.32	+9.6 +9.6 +9.6 +9.6 +9.6 +9.6 +9.6 +9.6

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10472				8.57	±9.6
10473	AAF	LTE-TDD (SC-FDMA, 1 RB, 15MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8,32	±9.6
10478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	±9.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.45	±9.6
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	±9.6
10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	±9.6
10484	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10485	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
10486	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	±9.6
10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	±9.6
10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7,70	±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8,31	±9.6
10490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub(rame=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10495	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6
10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	±9.6
10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.72	±9.6
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subirame=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub(rame=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6
10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subírame=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7,99	±9,6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	±9.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub(rame=2,3,4,7,8,9)	LTE-TDD	8.42	±9.6
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10518	AAD	IEEE 802.11a/n WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10519	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6
10520	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
10521	AAD	IEEE 802.11a/n WiFI 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
10522	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8,45	±9.6
10523	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
10524	AAD	IEEE 802.11a/h WiFI 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9,6
10525	AAD	IEEE 802.11ac WiFI (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.36	±9,6
			T T T T T T T T T T T T T T T T T T T	0.00	
10526	AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6
10526 10527	AAD AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)			±9.6 ±9.6
10526 10527 10528	AAD AAD AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.42	
10526 10527 10528 10529	AAD AAD AAD AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)	WLAN WLAN	8.42 8.21	±9.6
10526 10527 10528 10529 10531	AAD AAD AAD AAD AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)	WLAN WLAN WLAN	8.42 8.21 8.36	±9.6 ±9.6
10526 10527 10528 10529 10531 10532	AAD AAD AAD AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)	WLAN WLAN WLAN WLAN	8.42 8.21 8.36 8.36	±9.6 ±9.6 ±9.6
10526 10527 10528 10529 10531 10532 10533	AAD AAD AAD AAD AAD AAD AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle)	WLAN WLAN WLAN WLAN WLAN	8.42 8.21 8.36 8.36 8.43	+9.6 +9.6 +9.6 +9.6
10526 10527 10528 10529 10531 10532 10533 10534	AAD AAD AAD AAD AAD AAD AAD AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN	8.42 8.21 8.36 8.36 8.43 8.29	+9.6 +9.6 +9.6 +9.6 +9.6
10526 10527 10528 10529 10531 10532 10533 10534 10535	AAD AAD AAD AAD AAD AAD AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.42 8.21 8.36 8.36 8.43 8.29 8.38	$ \begin{array}{r} \pm 9.6 \\ \end{array} $
10526 10527 10528 10529 10531 10532 10533 10533 10534 10535 10536	AAD AAD AAD AAD AAD AAD AAD AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.42 8.21 8.36 8.36 8.43 8.29 8.38 8.45	$ \begin{array}{r} \pm 9.6 \\ \end{array} $
10526 10527 10528 10529 10531 10532 10533 10534 10535 10536 10537	AAD AAD AAD AAD AAD AAD AAD AAD AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.42 8.21 8.36 8.36 8.43 8.29 8.38 8.45 8.45	$ \begin{array}{r} \pm 9.6 \\ \end{array} $
10526 10527 10528 10529 10531 10532 10533 10533 10534 10535 10536	AAD AAD AAD AAD AAD AAD AAD AAD AAD AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.42 8.21 8.36 8.36 8.43 8.29 8.38 8.45 8.45 8.32	$ \begin{array}{r} \pm 9.6 \\ \end{array} $

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UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
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 AAD	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAD	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN WLAN	8.47	±9.6 ±9.6
10546	AAD	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.55 8.35	±9.6
10547	AAD	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.49	±9.6
10548	AAD	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)	WLAN	8,37	±9.6
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	±9.6
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	±9.6
10554	AAE	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
10555	AAE	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8,47	±9.6
10556	AAE	IEEE 802,11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10557	ÁAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8,52	±9.6
10558	AAE	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8,61	±9,6
10560	AAE	IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6
10561	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.6
10562	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
10563	AAE	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8,13	±9.6
10567	AAA	IEEE 802,11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1,99	±9.6
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)		1.98	±9.6
10575	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	±9.6
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10578 10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10580	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 40 Mops, 90pc duty cycle)	WLAN	8.35	±9.6
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN WLAN	8,59	±9.6
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.60 8.70	±9.6
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6 ±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 duly 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	±9,6
10591	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
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	±9.6
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	±9.6
10602	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6
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	±9.6
10605	AAD 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) IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10607	AAD	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6
			WLAN	8.77	±9.6

UID	Rev	Communication System Name			UnoE / - 0
10609	_	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	Group	PAR (dB) 8.57	Unc ^E <i>k</i> = 2 ±9.6
10610	<u> </u>	IEEE 802.11ac WiFi (20 MHz, MCS2, Sope duty cycle)	WLAN	8.57	±9.6 ±9.6
10611		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	±9.6
10613	AAD	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
10614	AAD	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
10615		IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10616		IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	_	IEEE 802.11ac WiFI (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	_	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	_	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10620	AAD AAD	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10622		IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAD	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.68	±9.6
10624		IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN WLAN	8.82	±9.6 ±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	IEEE 802.11ac WiFI (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
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	±9.6
10630	AAD	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±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 (60 MHz, MCS6, 90pc duty cycle)	WLAN	8,74	±9.6
10633	AAD	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
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) IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.83	±9.6
10638	AAE	IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8,79	±9.6
10639	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN WLAN	8.86	±9.6
10640	AAE	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.85 8.98	±9.6 ±9.6
10641	AAE	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN -	9.06	±9.6
10642	AAE	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAE	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subirame=2,7)	LTE-TDD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9,6
10648		CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10654	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) LTE-TDD (OFDMA, 15 MHz, 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%)		6.96	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	LTE-TDD	7.21	±9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	10.00	±9.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	6.99 3.98	±9.6 ±9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2,19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duly cycle)	WLAN	8.74	±9.6
10675 10676	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLÂN	8.90	±9.6
10676	AAC AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle) IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN WLAN	8.89	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN WLAN	8.80	<u>+9.6</u>
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.62	±9.6 ±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10685	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10686	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6

Descrit ACC EEE Box 1116 (00HHz, MCSS, Bipp duty cycle) WLAN RAS RAS 1988 ACC EEE Box 1116 (00Hz, MCSS, Bipp duty cycle) WLAN 8.29 4.90 1988 ACC EEE Box 1116 (00Hz, MCSS, Bipp duty cycle) WLAN 8.29 4.90 1998 ACC EEE Box 1116 (00Hz, MCSS, Bipp duty cycle) WLAN 8.29 4.90 1998 ACC EEE Box 1116 (00Hz, MCSS, Bipp duty cycle) WLAN 8.29 4.90 1998 ACC EEE Box 1116 (00Hz, MCSS, Bipp duty cycle) WLAN 8.25 4.90 1998 ACC EEE Box 1116 (00Hz, MCSS, Bipp duty cycle) WLAN 8.57 4.98 1998 ACC EEE Box 1116 (00Hz, MCSS, Bipp duty cycle) WLAN 8.01 4.80 1998 ACC EEE Box 1116 (00Hz, MCSS, Bipp duty cycle) WLAN 8.01 4.80 1999 ACC EEE Box 1116 (00Hz, MCSS, Bipp duty cycle) WLAN 8.01 4.80 1999 ACC EEE Box 1116 (00Hz, MCSS, Bipp duty cycle) WLAN 8.29	UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
Indem ACC IEEE 80.21 is (20MHz, MCSS, 89p oduly cycle) WLANI 8.55 4.90 10689 ACC IEEE 80.21 is (20MHz, MCSS, 99p oduly cycle) WLANI 8.25 4.90 10681 ACC IEEE 80.21 is (20MHz, MCSS, 99p oduly cycle) WLANI 8.25 4.90 10682 ACC IEEE 80.21 is (20MHz, MCSS, 99p oduly cycle) WLANI 8.25 4.90 10682 ACC IEEE 80.21 is (20MHz, MCSS, 99p oduly cycle) WLANI 8.27 4.90 10683 ACC IEEE 80.21 is (20MHz, MCSS, 99p oduly cycle) WLANI 8.27 4.90 10684 ACC IEEE 80.21 is (20MHz, MCSS, 99p oduly cycle) WLANI 8.21 4.90 10684 ACC IEEE 80.21 is (20MHz, MCSS, 99p oduly cycle) WLANI 8.25 4.95 10790 ACC IEEE 80.21 is (20MHz, MCSS, 99p oduly cycle) WLANI 8.26 4.95 10791 ACC IEEE 80.21 is (20MHz, MCSS, 99p oduly cycle) WLANI 8.95 4.95 10791 ACC IEEE 80.21 is (20MHz, MCSS, 99p oduly cycle) <	10687					
1968 ACC EEE 80.21 in (20MHz, MCSS, 80p duty cycle) WLANI 8.20 4.90 10691 ACC EEE 80.21 in (20MHz, MCSS, 80p duty cycle) WLANI 8.23 4.90 10691 ACC EEE 80.21 in (20MHz, MCSS, 80p duty cycle) WLANI 8.23 4.90 10691 ACC EEE 80.21 in (20MHz, MCSS, 80p duty cycle) WLANI 8.25 4.90 10691 ACC EEE 80.21 in (20MHz, MCSS, 80p duty cycle) WLANI 8.77 4.90 10682 ACC EEE 80.21 in (20MHz, MCSS, 80p duty cycle) WLANI 8.77 4.90 10683 ACC EEE 80.21 in (20MHz, MCSS, 80p duty cycle) WLANI 8.49 4.80 10684 ACC EEE 80.21 in (20MHz, MCSS, 80p duty cycle) WLANI 8.49 4.80 10782 ACC EEE 80.21 in (20MHz, MCSS, 80p duty cycle) WLANI 8.69 4.80 10791 ACC EEE 80.21 in (20MHz, MCSS, 80p duty cycle) WLANI 8.69 4.80 10792 ACC EEE 80.21 in (20MHz, MCSS, 80p duty cycle) WLANI <	10688	AAC				
1989 AAC LEEE R0.11 at (20 MHz, MCS8, 99pc duty cycle) WLAN 8.25 45.8 1988 AAC EEEE R0.21 at (20 MHz, MCS8, 99pc duty cycle) WLAN 8.27 45.8 1988 AAC IEEE R0.21 at (20 MHz, MCS1, 99pc duty cycle) WLAN 8.77 45.8 1985 AAC IEEE R0.21 at (20 MHz, MCS1, 99pc duty cycle) WLAN 8.77 45.9 1985 AAC IEEE R0.21 at (20 MHz, MCS3, 99pc duty cycle) WLAN 8.91 45.8 1986 AAC IEEE R0.21 at (40 MHz, MCS3, 99pc duty cycle) WLAN 8.91 45.8 1997 AAC IEEE R0.21 at (40 MHz, MCS3, 99pc duty cycle) WLAN 8.73 45.8 1997 AAC IEEE R0.21 at (40 MHz, MCS3, 99pc duty cycle) WLAN 8.74 45.8 1997 AAC IEEE R0.21 at (40 MHz, MCS3, 99pc duty cycle) WLAN 8.74 45.8 1997 AAC IEEE R0.21 at (40 MHz, MCS3, 99pc duty cycle) WLAN 8.67 45.6 1997 AAC IEEE R0.21 tat (40 MHz, MCS3, 99pc duty cycle) WLAN </td <td></td> <td>_</td> <td></td> <td>WLAN</td> <td></td> <td></td>		_		WLAN		
B0682 AAC EEE 80.11x (20MHz, MCSB, 98pc duty cycle) WLAN 8.29 4.9.5 B0688 AAC EEE 80.211x (20MHz, MCSB, 98pc duty cycle) WLAN 8.72 4.9.5 B0698 AAC EEE 80.211x (20MHz, MCSB, 99pc duty cycle) WLAN 8.72 4.9.5 B0698 AAC EEE 80.211x (20MHz, MCSB, 99pc duty cycle) WLAN 8.61 4.9.5 B0698 AAC EEE 80.211x (20MHz, MCSB, 99pc duty cycle) WLAN 8.62 4.9.5 B0698 AAC EEE 80.211x (20MHz, MCSB, 90pc duty cycle) WLAN 8.82 4.9.5 B0700 AAC EEE 80.211x (40MHz, MCSB, 90pc duty cycle) WLAN 8.82 4.9.5 B0701 AAC EEE 80.211x (40MHz, MCSB, 80pc duty cycle) WLAN 8.82 4.9.6 B0702 AAC EEE 80.211x (40MHz, MCSB, 80pc duty cycle) WLAN 8.62 4.9.6 B0702 AAC EEE 80.211x (40MHz, MCSB, 80pc duty cycle) WLAN 8.62 4.9.6 B0703 AAC EEE 80.211x (40MHz, MCSB, 80pc duty cycle) WLAN <t< td=""><td></td><td></td><td></td><td></td><td>8.29</td><td>±9.6</td></t<>					8.29	±9.6
10084 AAC IEEE 80.11 av (20 MHz, MCS1, 98pc duby gele) WLAN 8.25 4.36 10084 AAC IEEE 80.21 av (20 MHz, MCS1, 98pc duby gele) WLAN 8.76 4.90 10086 AAC IEEE 80.21 av (20 MHz, MCS1, 98pc duby gele) WLAN 8.91 4.95 10086 AAC IEEE 80.21 av (20 MHz, MCS3, 99c duby gele) WLAN 8.61 4.95 10088 AAC IEEE 80.21 av (20 MHz, MCS3, 99c duby gele) WLAN 8.64 4.95 10088 AAC IEEE 80.21 av (40 MHz, MCS3, 99c duby gele) WLAN 8.72 4.95 10700 AAC IEEE 80.21 av (40 MHz, MCS5, 99c duby gele) WLAN 8.72 4.95 10701 AAC IEEE 80.21 av (40 MHz, MCS5, 99c duby gele) WLAN 8.72 4.96 10702 AAC IEEE 80.21 av (40 MHz, MCS5, 99c duby gele) WLAN 8.82 4.96 10704 AAC IEEE 80.21 av (40 MHz, MCS5, 99c duby gele) WLAN 8.82 4.95 10704 AAC IEEE 80.21 av (40 MHz, MCS5, 99c duby gele) WLAN				WLAN	8.25	±9.6
1044 ACC IEEE 802.1114 (20MHz, MCSD, 90pc duty cycle) WLAN 8,67 36.6 10485 AAC IEEE 802.1114 (40MHz, MCSD, 90pc duty cycle) WLAN 8,61 35.6 10486 AAC IEEE 802.1114 (40MHz, MCSD, 90pc duty cycle) WLAN 8,61 35.6 10486 AAC IEEE 802.1114 (40MHz, MCSD, 90pc duty cycle) WLAN 8,62 35.5 10498 AAC IEEE 802.1114 (40MHz, MCSD, 90pc duty cycle) WLAN 8,68 35.5 10701 AAC IEEE 802.1114 (40MHz, MCSD, 90pc duty cycle) WLAN 8,68 35.5 10702 AAC IEEE 802.1114 (40MHz, MCSD, 90pc duty cycle) WLAN 8,68 45.6 10703 AAC IEEE 802.1114 (40MHz, MCSD, 90pc duty cycle) WLAN 8,68 45.6 10704 AAC IEEE 802.1114 (40MHz, MCSD, 90pc duty cycle) WLAN 8,68 45.6 10705 AAC IEEE 802.1114 (40MHz, MCSD, 90pc duty cycle) WLAN 8,68 45.6 10706 AAC IEEE 802.1114 (40MHz, MCSD, 90pc duty cycle) WLAN <td></td> <td></td> <td></td> <td>WLAN</td> <td>8.29</td> <td>±9.6</td>				WLAN	8.29	±9.6
19085 ACC IEEE 802.11x (40MHz, MCS0, 90p-cluby cycle) WLAN 8.76 4.9.8 19088 ACC EEE 802.11x (40MHz, MCS0, 90p-cluby cycle) WLAN 8.61 3.9.8 19088 ACC EEE 802.11x (40MHz, MCS0, 90p-cluby cycle) WLAN 8.89 4.9.6 19089 ACC EEE 802.11x (40MHz, MCS0, 90p-cluby cycle) WLAN 8.72 4.9.6 19070 ACC EEE 802.11x (40MHz, MCS0, 90p-cluby cycle) WLAN 8.72 4.9.6 10701 ACC EEE 802.11x (40MHz, MCS0, 90p-cluby cycle) WLAN 8.72 4.9.6 10702 ACC IEEE 802.11x (40MHz, MCS0, 90p-cluby cycle) WLAN 8.78 4.9.6 10703 ACC IEEE 802.11x (40MHz, MCS0, 90p-cluby cycle) WLAN 8.82 4.9.6 10703 ACC IEEE 802.11x (40MHz, MCS1, 90p-cluby cycle) WLAN 8.62 4.9.6 10704 ACC IEEE 802.11x (40MHz, MCS1, 90p-cluby cycle) WLAN 8.23 4.9.6 10707 ACC IEEE 802.11x (40MHz, MCS1, 90p-cluby cycle) WLAN	<u> </u>					±9.6
10688 AAC LEEE 80.11 at (40 MHz, MCS3, 00pc duly cycle) WLAN 8.91 9.95 10699 AAC LEEE 80.11 at (40 MHz, MCS3, 00pc duly cycle) WLAN 8.89 9.96 10699 AAC LEEE 80.11 at (40 MHz, MCS3, 00pc duly cycle) WLAN 8.89 9.96 10700 AAC LEEE 80.11 at (40 MHz, MCS3, 00pc duly cycle) WLAN 8.73 4.96 10701 AAC LEEE 80.11 at (40 MHz, MCS3, 00pc duly cycle) WLAN 8.78 9.96 10701 AAC LEEE 80.11 at (40 MHz, MCS3, 00pc duly cycle) WLAN 8.78 9.96 10701 AAC LEEE 80.21 at (40 MHz, MCS3, 00pc duly cycle) WLAN 8.56 9.96 10701 AAC LEEE 80.21 at (40 MHz, MCS3, 00pc duly cycle) WLAN 8.56 9.96 10702 AAC LEEE 80.21 at (40 MHz, MCS3, 00pc duly cycle) WLAN 8.56 9.96 10708 AAC LEEE 80.21 at (40 MHz, MCS3, 90pc duly cycle) WLAN 8.56 9.96 10709 AAC LEEE 80.21 at (40 MHz, MCS3, 90pc duly cycle)						
10697 AAC IEEE 80.11 as (40 MHz, MCS2, 000 cuty cycle) WLAN 8.81 9.96 10698 AAC IEEE 80.21 1as (40 MHz, MCS2, 000 cuty cycle) WLAN 8.82 3.96 10700 AAC IEEE 80.21 1as (40 MHz, MCS3, 000 cuty cycle) WLAN 8.73 3.95 10701 AAC IEEE 80.21 1as (40 MHz, MCS3, 000 cuty cycle) WLAN 8.70 4.86 10702 AAC IEEE 80.21 1as (40 MHz, MCS3, 000 cuty cycle) WLAN 8.86 4.96 10702 AAC IEEE 80.21 1as (40 MHz, MCS3, 000 cuty cycle) WLAN 8.82 4.96 10704 AAC IEEE 80.21 1as (40 MHz, MCS3, 000 cuty cycle) WLAN 8.82 4.95 10705 AAC IEEE 80.21 1as (40 MHz, MCS3, 000 cuty cycle) WLAN 8.82 4.95 10707 AAC IEEE 80.21 1as (40 MHz, MCS3, 000 cuty cycle) WLAN 8.82 4.95 10708 AAC IEEE 80.21 1as (40 MHz, MCS3, 900 cuty cycle) WLAN 8.32 4.95 10709 AAC IEEE 80.21 1as (40 MHz, MCS3, 900 cuty cycle) <						
10689 AAC LEEE 80.21 ray (40 MHz, MCS3, 90pc duty cycle) VLAN 8.89 10.50 10709 AAC LEEE 80.21 ray (40 MHz, MCS3, 90pc duty cycle) VLAN 6.87 1.9.50 10701 AAC LEEE 80.21 ray (40 MHz, MCS3, 90pc duty cycle) VLAN 6.73 1.9.50 10701 AAC LEEE 80.21 ray (40 MHz, MCS3, 90pc duty cycle) VLAN 6.70 1.8.6 10703 AAC LEEE 80.21 ray (40 MHz, MCS3, 90pc duty cycle) WLAN 6.86 1.9.6 10704 AAC LEEE 80.21 ray (40 MHz, MCS3, 90pc duty cycle) WLAN 6.86 1.9.6 10705 AAC LEEE 80.21 ray (40 MHz, MCS3, 90pc duty cycle) WLAN 6.86 1.9.5 10706 AAC LEEE 80.21 ray (40 MHz, MCS3, 90pc duty cycle) WLAN 8.35 1.9.6 10707 AAC LEEE 80.21 ray (40 MHz, MCS3, 90pc duty cycle) WLAN 8.35 1.9.6 10708 AAC LEEE 80.21 ray (40 MHz, MCS3, 90pc duty cycle) WLAN 8.35 1.9.6 10709 AAC LEEE 80.21 ray (40 MHz, MCS3, 90pc du						
10689 AAC IEEE Boz Tas (40 MHz, MCS4, 60 pc dily cycle) VILAN 6.82 10.35 10700 AAC IEEE Boz Tas (40 MHz, MCS4, 60 pc dily cycle) VILAN 8.86 12.85 10701 AAC IEEE Boz Tas (40 MHz, MCS4, 60 pc dily cycle) VILAN 8.86 12.85 10702 AAC IEEE Boz Tas (40 MHz, MCS4, 60 pc dily cycle) VILAN 8.82 12.65 10704 AAC IEEE Boz Tas (40 MHz, MCS4, 60 pc dily cycle) VILAN 8.82 12.65 10705 AAC IEEE Boz Tas (40 MHz, MCS4, 60 pc dily cycle) VILAN 8.68 12.65 10706 AAC IEEE Boz Tas (40 MHz, MCS5, 98 pc dily cycle) VILAN 6.69 12.65 10707 AAC IEEE Boz Tas (40 MHz, MCS5, 98 pc dily cycle) VILAN 6.32 12.65 10708 AAC IEEE Boz Tas (40 MHz, MCS5, 98 pc dily cycle) VILAN 6.32 12.65 10710 AAC IEEE Boz Tas (40 MHz, MCS5, 98 pc dily cycle) VILAN 6.33 12.65 10711 AAC IEEE Boz Tas (40 MHz, MCS5, 98 pc dily						
19700 AAC IEEE 80.11 ac (40 MHz, MCSS, 90pc duty cycle) WLAN 8.73 ± 9.86 19701 AAC IEEE 80.21 1ac (40 MHz, MCSS, 90pc duty cycle) WLAN 8.70 ± 8.6 19702 AAC IEEE 80.21 1ac (40 MHz, MCSS, 90pc duty cycle) WLAN 8.86 ± 9.6 19703 AAC IEEE 80.21 1ac (40 MHz, MCSS, 90pc duty cycle) WLAN 8.86 ± 9.6 19704 AAC IEEE 80.21 1ac (40 MHz, MCSS, 90pc duty cycle) WLAN 8.66 ± 9.5 19707 AAC IEEE 80.21 1ac (40 MHz, MCSS, 90pc duty cycle) WLAN 6.66 ± 9.5 19708 AAC IEEE 80.21 1ac (40 MHz, MCSS, 90pc duty cycle) WLAN 6.35 ± 9.5 19709 AAC IEEE 80.21 1ac (40 MHz, MCSS, 90pc duty cycle) WLAN 6.36 ± 9.5 19709 AAC IEEE 80.21 1ac (40 MHz, MCSS, 90pc duty cycle) WLAN 6.37 ± 9.6 19711 AAC IEEE 80.21 1ac (40 MHz, MCSS, 90pc duty cycle) WLAN 8.38 ± 9.6 19711 AAC IEEE 80.21 1ac (40 MHz, MCSS, 90pc duty		_			-	
19701 AAC IEEE 802.11 tax (400 MHz, MCSS, 500 duty grole) WLAN 8.86 ±9.6 10702 AAC IEEE 802.11 tax (400 MHz, MCSS, 500 duty grole) WLAN 8.52 ±9.6 10704 AAC IEEE 802.11 tax (400 MHz, MCSS, 600 duty grole) WLAN 8.56 ±9.6 10705 AAC IEEE 802.11 tax (400 MHz, MCSI, 600 duty grole) WLAN 6.66 ±9.6 10706 AAC IEEE 802.11 tax (400 MHz, MCSI, 600 duty grole) WLAN 6.68 ±9.6 10707 AAC IEEE 802.11 tax (400 MHz, MCSI, 800 duty grole) WLAN 8.58 ±9.6 10708 AAC IEEE 802.11 tax (400 MHz, MCSI, 800 duty grole) WLAN 8.33 ±8.6 10709 AAC IEEE 802.11 tax (400 MHz, MCSI, 800 duty grole) WLAN 8.33 ±8.6 10711 AAC IEEE 802.11 tax (400 MHz, MCSI, 800 duty grole) WLAN 8.33 ±8.6 10712 AAC IEEE 802.11 tax (400 MHz, MCSI, 900 duty grole) WLAN 8.6 ±9.6 10714 AAC IEEE 802.1 tax (400 MHz, MCSI, 900 duty					_	
10702 AAC IEEE 802.11 tox 460 MHz, MCSS, 900p duty cycle) WLAN 9.70 10703 AAC IEEE 802.11 tox 460 MHz, MCSS, 900p duty cycle) WLAN 9.56 ±9.66 10704 AAC IEEE 802.11 tox 460 MHz, MCSS, 900p duty cycle) WLAN 6.56 ±9.66 10705 AAC IEEE 802.11 tox 460 MHz, MCS1, 900p duty cycle) WLAN 6.56 ±9.66 10706 AAC IEEE 802.11 tox 460 MHz, MCS1, 800p duty cycle) WLAN 8.32 ±9.66 10707 AAC IEEE 802.11 tox 460 MHz, MCS1, 800p duty cycle) WLAN 8.33 ±9.66 10708 AAC IEEE 802.11 tox 460 MHz, MCS1, 800p duty cycle) WLAN 8.33 ±9.6 10710 AAC IEEE 802.11 tox 460 MHz, MCS3, 800p duty cycle) WLAN 8.33 ±9.6 10711 AAC IEEE 802.11 tox 460 MHz, MCS3, 800p duty cycle) WLAN 8.38 ±9.6 10711 AAC IEEE 802.11 tox 460 MHz, MCS3, 900p duty cycle) WLAN 8.37 ±9.6 10711 AAC IEEE 802.11 tox 460 MHz, MCS3, 900p duty cycle)	10701	AAC			_	
10703 AAC IEEE 802.11 ax (40 MHz, MCS8, 80 pc duty cycle) WLAN 8.86 9.96 10704 AAC IEEE 802.11 ax (40 MHz, MCS61, 90 pc duty cycle) WLAN 8.59 9.96 10705 AAC IEEE 802.11 ax (40 MHz, MCS1, 90 pc duty cycle) WLAN 8.59 9.95 10705 AAC IEEE 802.11 ax (40 MHz, MCS1, 90 pc duty cycle) WLAN 8.52 1.95 10706 AAC IEEE 802.11 ax (40 MHz, MCS1, 90 pc duty cycle) WLAN 8.52 1.95 10707 AAC IEEE 802.11 ax (40 MHz, MCS1, 90 pc duty cycle) WLAN 8.23 1.96 10710 AAC IEEE 802.11 ax (40 MHz, MCS3, 90 pc duty cycle) WLAN 8.23 1.96 10711 AAC IEEE 802.11 ax (40 MHz, MCS3, 90 pc duty cycle) WLAN 8.63 1.96 10712 AAC IEEE 802.11 ax (40 MHz, MCS3, 90 pc duty cycle) WLAN 8.64 1.96 10714 AAC IEEE 802.11 ax (40 MHz, MCS3, 90 pc duty cycle) WLAN 8.48 1.96 10714 AAC IEEE 802.11 ax (40 MHz, MCS3, 90 pc du	10702	AAC				
10704 AAC IEEE 802:11ax (40MHz, MCS1, 90pc duty cycle) WLAN 8.56 4.96 10705 AAC IEEE 802:11ax (40MHz, MCS1, 90pc duty cycle) WLAN 8.66 +9.65 10706 AAC IEEE 802:11ax (40MHz, MCS1, 90pc duty cycle) WLAN 8.52 +9.56 10707 AAC IEEE 802:11ax (40MHz, MCS1, 90pc duty cycle) WLAN 8.32 +9.56 10708 AAC IEEE 802:11ax (40MHz, MCS1, 90pc duty cycle) WLAN 8.33 +45.6 10711 AAC IEEE 802:11ax (40MHz, MCS1, 90pc duty cycle) WLAN 8.33 +19.6 10711 AAC IEEE 802:11ax (40MHz, MCS3, 90pc duty cycle) WLAN 8.33 +9.6 10712 AAC IEEE 802:11ax (40MHz, MCS3, 90pc duty cycle) WLAN 8.33 +9.6 10713 AAC IEEE 802:11ax (40MHz, MCS3, 90pc duty cycle) WLAN 8.45 +9.6 10714 AAC IEEE 802:11ax (40MHz, MCS3, 90pc duty cycle) WLAN 8.45 +9.6 10714 AAC IEEE 802:11ax (40MHz, MCS3, 90pc duty cycle) WL	10703	AAC	IEEE 802,11ax (40 MHz, MCS8, 90pc duty cycle)			
10705 AAC IEEE 002.11ax (40 MHz, MCS1), 90pc duty cycle) WLAN 8.69 4.98 10708 AAC IEEE 002.11ax (40 MHz, MCS1, 90pc duty cycle) WLAN 8.62 4.98 10708 AAC IEEE 002.11ax (40 MHz, MCS1, 80pc duty cycle) WLAN 8.52 4.98 10708 AAC IEEE 002.11ax (40 MHz, MCS2, 80pc duty cycle) WLAN 8.53 1.98 10701 AAC IEEE 002.11ax (40 MHz, MCS3, 80pc duty cycle) WLAN 8.29 4.96 10711 AAC IEEE 002.11ax (40 MHz, MCS3, 80pc duty cycle) WLAN 8.27 4.95 10712 AAC IEEE 002.11ax (40 MHz, MCS3, 80pc duty cycle) WLAN 8.28 4.96 10714 AAC IEEE 002.11ax (40 MHz, MCS3, 80pc duty cycle) WLAN 8.28 4.96 10715 AAC IEEE 002.11ax (40 MHz, MCS3, 80pc duty cycle) WLAN 8.30 4.96 10716 AAC IEEE 002.11ax (40 MHz, MCS1, 90pc duty cycle) WLAN 8.30 4.96 10717 AAC IEEE 002.11ax (40 MHz, MCS1, 90pc duty cycle)		AAC				
10707 AAC LEEE 802.11sx (40 MHz, MCS1, Sppc duty cycle) MLAN 8.52 1.938 10708 AAC LEEE 802.11sx (40 MHz, MCS1, Sppc duty cycle) WLAN 8.55 4.96 10709 AAC LEEE 802.11sx (40 MHz, MCS1, Sppc duty cycle) WLAN 8.23 1.96 10711 AAC LEEE 802.11sx (40 MHz, MCS3, Sppc duty cycle) WLAN 8.23 1.96 10711 AAC LEEE 802.11sx (40 MHz, MCS3, Sppc duty cycle) WLAN 8.23 1.95 10712 AAC LEEE 802.11sx (40 MHz, MCS5, Sppc duty cycle) WLAN 8.28 1.95 10714 AAC LEEE 802.11sx (40 MHz, MCS5, Sppc duty cycle) WLAN 8.28 1.96 10715 AAC LEEE 802.11sx (40 MHz, MCS5, Sppc duty cycle) WLAN 8.43 1.96 10717 AAC LEEE 802.11sx (40 MHz, MCS1, Sppc duty cycle) WLAN 8.43 1.96 10718 AAC LEEE 802.11sx (40 MHz, MCS1, Sppc duty cycle) WLAN 8.24 1.96 10719 AAC LEEE 802.11sx (60 MHz, MCS1, Sppc duty cycle)				WLAN	8.69	±9.6
10708 AAC LEEE 802.11ax (40 MHz, MCS2, 96p. duly cycle) WLAN 8.35 19.30 10709 AAC LEEE 802.11ax (40 MHz, MCS2, 96p. duly cycle) WLAN 8.33 19.6 10710 AAC LEEE 802.11ax (40 MHz, MCS3, 89p. duly cycle) WLAN 8.33 19.6 10711 AAC LEEE 802.11ax (40 MHz, MCS3, 89p. duly cycle) WLAN 8.33 19.6 10711 AAC LEEE 802.11ax (40 MHz, MCS3, 99p. duly cycle) WLAN 8.33 19.6 10714 AAC LEEE 802.11ax (40 MHz, MCS3, 99p. duly cycle) WLAN 8.43 19.6 10715 AAC LEEE 802.11ax (40 MHz, MCS1, 99p. duly cycle) WLAN 8.44 19.6 10716 AAC LEEE 802.11ax (40 MHz, MCS1, 99p. duly cycle) WLAN 8.44 19.6 10717 AAC LEEE 802.11ax (40 MHz, MCS1, 99p. duly cycle) WLAN 8.46 19.6 10717 AAC LEEE 802.11ax (40 MHz, MCS1, 99p. duly cycle) WLAN 8.76 19.6 10721 AAC LEEE 802.11ax (40 MHz, MCS3, 90p. duly cycle)				WLAN	8.66	±9.6
10700 AAC LEEE 802.11ax (40 MHz, MCS2, 95p. duly cycle) WLAN 8.23 19.30 10710 AAC IEEE 802.11ax (40 MHz, MCS3, 85p. duly cycle) WLAN 8.29 19.6 10711 AAC IEEE 802.11ax (40 MHz, MCS3, 85p. duly cycle) WLAN 8.33 19.6 10712 AAC IEEE 802.11ax (40 MHz, MCS3, 95p. duly cycle) WLAN 8.33 19.6 10713 AAC IEEE 802.11ax (40 MHz, MCS3, 95p. duly cycle) WLAN 8.28 19.6 10714 AAC IEEE 802.11ax (40 MHz, MCS3, 95p. duly cycle) WLAN 8.26 19.6 10715 AAC IEEE 802.11ax (40 MHz, MCS3, 95p. duly cycle) WLAN 8.48 19.6 10716 AAC IEEE 802.11ax (40 MHz, MCS1, 95p. duly cycle) WLAN 8.44 19.6 10717 AAC IEEE 802.11ax (40 MHz, MCS3, 90p. duly cycle) WLAN 8.43 19.6 10721 AAC IEEE 802.11ax (40 MHz, MCS3, 90p. duly cycle) WLAN 8.41 19.6 10721 AAC IEEE 802.11ax (80 MHz, MCS3, 90p. duly cycle)					8.32	±9.6
19710 AAC IEEE 802.11ax (40 MHz, MCS3, 99p. duly cycle) WLAN 8.39 19.6 10711 AAC IEEE 802.11ax (40 MHz, MCS3, 89p. duly cycle) WLAN 8.39 19.6 10712 AAC IEEE 802.11ax (40 MHz, MCS5, 89p. duly cycle) WLAN 8.33 19.6 10714 AAC IEEE 802.11ax (40 MHz, MCS5, 99p. duly cycle) WLAN 8.33 19.6 10715 AAC IEEE 802.11ax (40 MHz, MCS5, 99p. duly cycle) WLAN 8.43 19.6 10716 AAC IEEE 802.11ax (40 MHz, MCS1, 99p. duly cycle) WLAN 8.44 19.6 10716 AAC IEEE 802.11ax (40 MHz, MCS1, 99p. duly cycle) WLAN 8.43 19.6 10717 AAC IEEE 802.11ax (40 MHz, MCS1, 99p. duly cycle) WLAN 8.41 19.6 10718 AAC IEEE 802.11ax (40 MHz, MCS1, 99p. duly cycle) WLAN 8.41 19.6 10721 AAC IEEE 802.11ax (40 MHz, MCS3, 90p. duly cycle) WLAN 8.71 9.6 10722 AAC IEEE 802.11ax (40 MHz, MCS3, 90p. duly cycle) <						±9.6
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10735 AAC IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle) WLAN 8.33 19.6 10736 AAC IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle) WLAN 8.27 19.6 10737 AAC IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle) WLAN 8.36 19.6 10737 AAC IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle) WLAN 8.36 19.6 10738 AAC IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle) WLAN 8.42 19.6 10739 AAC IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) WLAN 8.42 19.6 10740 AAC IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle) WLAN 8.48 19.6 10741 AAC IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle) WLAN 8.43 19.6 10742 AAC IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle) WLAN 8.43 19.6 10743 AAC IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) WLAN 8.94 19.6 10744 AAC IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) WLAN 8.93 19.6 10745 AAC			IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	<u> </u>		
10736 AAC IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle) WLAN 8.27 ±9.6 10737 AAC IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle) WLAN 8.36 ±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 8.42 ±9.6 10740 AAC IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) WLAN 8.48 ±9.6 10741 AAC IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle) WLAN 8.48 ±9.6 10742 AAC IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle) WLAN 8.44 ±9.6 10743 AAC IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle) WLAN 8.43 ±9.6 10744 AAC IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) WLAN 8.43 ±9.6 10744 AAC IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) WLAN 8.93 ±9.6 10745 AAC IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) WLAN 8.93 ±9.6 10746 AAC		_	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)			
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 10741 AAC IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle) WLAN 8.48 ±9.6 10741 AAC IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle) WLAN 8.44 ±9.6 10742 AAC IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle) WLAN 8.43 ±9.6 10743 AAC IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle) WLAN 8.43 ±9.6 10744 AAC IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) WLAN 8.94 ±9.6 10745 AAC IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) WLAN 8.93 ±9.6 10746 AAC IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) WLAN 8.93 ±9.6 10747 AAC IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle) WLAN 9.04 ±9.6 10748 AAC				WLAN		
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 10741 AAC IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) WLAN 8.48 ±9.6 10741 AAC IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) WLAN 8.40 ±9.6 10742 AAC IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) WLAN 8.43 ±9.6 10743 AAC IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) WLAN 8.43 ±9.6 10744 AAC IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) WLAN 8.94 ±9.6 10745 AAC IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) WLAN 8.93 ±9.6 10746 AAC IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) WLAN 8.93 ±9.6 10747 AAC IEEE 802.11ax (160 MHz, MCS3, 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 </td <td></td> <td></td> <td>IEEE 802,11ax (80 MHz, MCS6, 99pc duty cycle)</td> <td></td> <td>8,36</td> <td>±9.6</td>			IEEE 802,11ax (80 MHz, MCS6, 99pc duty cycle)		8,36	±9.6
10740 AAC IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) WLAN 8.48 ±9.6 10741 AAC IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) WLAN 8.40 ±9.6 10742 AAC IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) WLAN 8.43 ±9.6 10742 AAC IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) WLAN 8.43 ±9.6 10743 AAC IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) WLAN 8.43 ±9.6 10744 AAC IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) WLAN 8.94 ±9.6 10745 AAC IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) WLAN 8.93 ±9.6 10746 AAC IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) WLAN 8.93 ±9.6 10747 AAC IEEE 802.11ax (160 MHz, MCS3, 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 10749 AAC			IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)		8.42	±9.6
10741 AAC IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) WLAN 8.40 ±9.6 10742 AAC IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) WLAN 8.43 ±9.6 10743 AAC IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) WLAN 8.43 ±9.6 10744 AAC IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) WLAN 8.94 ±9.6 10744 AAC IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) WLAN 8.93 ±9.6 10745 AAC IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) WLAN 8.93 ±9.6 10746 AAC IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) WLAN 8.93 ±9.6 10747 AAC IEEE 802.11ax (160 MHz, MCS3, 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 8.93 ±9.6 10749 AAC IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle) WLAN 8.90 ±9.6 10750 AAC			IEEE 002.110X (80 MHz, MCS8, 99pc duly cycle)			
10742 AAC IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) WLAN 8.43 ±9.6 10743 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 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 10746 AAC IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) WLAN 8.93 ±9.6 10747 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						
10743 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 9.16 ±9.6 10745 AAC IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) WLAN 8.93 ±9.6 10746 AAC IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) WLAN 9.11 ±9.6 10747 AAC IEEE 802.11ax (160 MHz, MCS3, 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 8.93 ±9.6 10750 AAC IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle) WLAN 8.90 ±9.6 10751 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) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
10744 AAC IEEE 802.11ax (160 MHz, MCS1, 90pc duly cycle) WLAN 9.16 ±9.6 10745 AAC IEEE 802.11ax (160 MHz, MCS2, 90pc duly cycle) WLAN 9.16 ±9.6 10746 AAC IEEE 802.11ax (160 MHz, MCS2, 90pc duly cycle) WLAN 8.93 ±9.6 10746 AAC IEEE 802.11ax (160 MHz, MCS3, 90pc duly cycle) WLAN 9.11 ±9.6 10747 AAC IEEE 802.11ax (160 MHz, MCS4, 90pc duly cycle) WLAN 9.04 ±9.6 10748 AAC IEEE 802.11ax (160 MHz, MCS5, 90pc duly cycle) WLAN 8.93 ±9.6 10749 AAC IEEE 802.11ax (160 MHz, MCS6, 90pc duly cycle) WLAN 8.93 ±9.6 10750 AAC IEEE 802.11ax (160 MHz, MCS7, 90pc duly cycle) WLAN 8.79 ±9.6 10751 AAC IEEE 802.11ax (160 MHz, MCS8, 90pc duly cycle) WLAN 8.79 ±9.6 10751 AAC IEEE 802.11ax (160 MHz, MCS8, 90pc duly cycle) WLAN 8.82 ±9.6						
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10746 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 9.04 ±9.6 10749 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			IEEE 802.11ax (160 MHz, MCS2, 90oc duty cycle)			
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10751 AAC IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle) WLAN 8.82 ±9.6			IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)			
		_	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN		
	10752	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	

DIU	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10753			Group WLAN	9.00	$\frac{010^{-} \text{ K} = 2}{\pm 9.6}$
10754			WLAN	8.94	±9.6
10755	AAC		WLAN	8.64	±9.6
10756	AAC		WLAN	8,77	±9.6
10757	AAC		WLAN	8.77	±9.6
10758	AAC		WLAN	8.69	±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
10760	AAC		WLAN	8.49	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	 ±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
10765		IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10766		IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
10767	AAG	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, OPSK, 15 kHz)	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, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10772		5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
10773 10774		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 AAE	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10776		5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,30	±9.6
10778	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 KHz)	5G NR FR1 TDD	8,34	±9.6
10780	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,42	±9.6
10781	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782	AAE	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.38	±9.6
10783	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43 8.31	<u>±9.6</u>
10784	AAE	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 ±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	±9.6
10788	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,39	±9.6
10789	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	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
10794	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
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
10799	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10801	AAF	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10802	AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10805	AAF	5G NR (CP-OFDM, 1 HB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10805	AAE	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10809	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
10803	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10812	AAF	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10817	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.35	±9.6
10818	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35 8.34	±9.6 ±9.6
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6 ±9.6
10820	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	±9.6
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10822	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10823	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	±9.6
10824	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8,39	±9.6
10825	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10827	AAF	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
10828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.6

UID	Rev	Communication System Name		DAD (dD)	$Unc^E k = 2$
10829		5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	Group 5G NR FR1 TDD	PAR (dB) 8.40	t=2 ± 9.6
10830		5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	0.40 7,63	±9.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.0
10832	-		5G NR FR1 TDD	7.74	±9.6
10833		5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	±9.6
10834		5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9.6
10835		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	±9.6
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
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
10844	AAE	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10846	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10854	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10856	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9,6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6
10858	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10859	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10860	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10861	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	±9.6
10863	AAF	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8,37	±9.6
10865	AAF	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8,41	±9.6
10866	AAF	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10868	AAF	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
10869	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5,75	±9.6
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
10871	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
10873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10874	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10876		5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16OAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10880	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
10881	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 KHz)	5G NR FR2 TDD	8.38	<u>±9.6</u>
10882	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5,75	±9.6
10883	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
10884	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
10885	AAE	5G NR (DF1-S-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
10886	AAE	5G NR (DF1-S-OFDM, 1 RB, 50 MHz, 64QAM, 120 KHz)	5G NR FR2 TDD	6.61	±9.6
10887	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10888	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10889	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
10890	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD 5G NR FR2 TDD	8.02	±9.6
10891	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)		8.40	±9.6
10892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	±9.6
10897	AAE	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR2 TDD 5G NR FR1 TDD	8.41	±9,6
10898	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	<u>±9.6</u>
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10900	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10902	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68 5.68	±9.6
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10904	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68 5.68	±9.6
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6 ±9.6
10907	AAE	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	
10908	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6 ±9.6
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10910	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
				0.00	19.0

Um Nev Communication System Name Group PARA (0) Use 5.4 1011 A33 Son IN (CPT+COPM, SOV, RE), 20NHs, CPSK, 30NHs) Sol NI (CPT+COPM, 100K, RE), 80NHs, CPSK, 50NHs) Sol NI (CPT+COPM, 100K, RE), 80NH	UID	Rev	Communication System Name	-		
Lebit P. ACC SG NR (DFI-SOFDM, SDN: RB, 30MHz, OPSK, 30HHz) SG NR (PTI-SOFDM, SDN: RB, 30MHz, OPSK, 30HHz) SG NR (PTI-TOD) S544 456 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 15	1			· ·	+	
19913 ADD 5 GAN (CF) - OPDAL SOVE RE) - SOMULE OPEK, 3014/1) 16 GAN RFR TTOD 5 S48 4 S46 19914 ADD 5 GAN (CF) - OPDAL, 50%, RE) SOMULE, OPEK, 3014/1) 16 GAN RFR TTOD 5 S48 4 S46 19916 ADD 5 GAN (CF) - OPDAL, 50%, RE) SOMULE, OPEK, 3014/1) 16 GAN RFR TTOD 5 S47 4 S56 19916 ADD 5 GAN (CF) - OPDAL, 50%, RE) SOMULE, OPEK, 3014/1 16 GAN RFR TTOD 5 S48 4 S56 19917 ADD 5 GAN (CF) - OPDAL, 50%, RE) SOMULE, OPEK, 3014/1 16 GAN RFR TTOD 5 S48 4 S56 19927 ADD 5 GAN (CF) - OPDAL, 100%, RE IS, MANL, OPEK, 3014/1 16 GAN RFR TTOD 5 S48 4 S56 19927 ADD 5 GAN (CF) - OPDAL, 100%, RE IS, MANL, OPEK, 3014/1 16 GAN RFR TTOD 5 S48 4 S56 19927 ADD 5 GAN (CF) - OPDAL, 100%, RE IS, S044/2, OPEK, 3014/1 16 GAN RFR TTOD 5 S48 4 S56 19927 ADD 5 GAN (CF) - OPDAL, 100%, RE IS, S044/2, OPEK, 3014/1 16 GAN RFR TTOD 5 S48 4 S56 19928 ADD 5 GAN (CF) - OPDAL, 100%, RE IS, S044/2, OPEK, 3014/1 16 GAN RFR T						
19981 ADD SCI NR (DF S-OFDX, 20% RS 50MHz, CPK, 30HHz) EGN RF FRT TOD 5.83 4.85 19915 ADD SCN RIO (FT-S-OFDX, 50% RB, 80MHz, CPK, 30HHz) GGN RF FIT TOD 5.83 4.85 19915 ADD SCN RIO (FT-S-OFDX, 50% RB, 80MHz, CPK, 30HHz) GGN RF FIT TOD 5.84 4.86 19917 ADD SCN RIO (FT-S-OFDX, 100% RB, 10MHz, CPK, 30HHz) SCN RF FIT TOD 5.84 4.86 19918 ACD SCN RIO (FT-S-OFDX, 100% RB, 15MHz, CPK, 30HHz) SCN RF FIT TOD 5.84 4.85 19921 ACD SCN RIO (FT-S-OFDX, 100% RB, 15MHz, CPK, 30HHz) SCN RF FIT TOD 5.84 4.85 19921 ACD SCN RIO (FT-S-OFDX, 100% RB, 30MHz, CPK, 30HHz) SCN RF FIT TOD 5.84 4.86 19922 AAD SCN RIO (FT-S-OFDX, 100% RB, 30MHz, CPK, 30HHz) SCN RF FIT TOD 5.84 4.86 19924 AAD SCN RIO (FT-S-OFDX, 100% RB, 30MHz, CPK, 30HHz) SCN RF FIT TOD 5.84 4.84 19924 AAD SCN RIO (FT-S-OFDX, 100% RB, 30MHz, CPK, 15HHz) SCN RIF RT TOD 5.84 4.84						
Tents ADD Son N(DFE-OFEM, Stork BB, DOMLE, OPEX, GONLE) SON NET FIT TOD Set #SS 19917 AAD SON N(DFE-OFEM, Stork BB, DOMLE, OPEX, GONLE) SON N(DFE-OFEM, Stork BB, TOMLE, OPEX, GONLE) SON N(DFE-OFEM, Stork BB, TOMLE, OPEX, GONLE) SON N(DFE-OFEM, Stork BB, TOMLE, OPEX, GONLE) SON N(DFE-OFEM, 100%, BB, GONLE, OPEX, GONLE) SON N(DFE-OFEM		_				
IDentify AND So NR (PF1+OPDM, Sore RB, 20MHz, OPSK, 30Hz) SO NR PH1 TDD 5.87 93.63 10917 AAD SO NR (OFF-A-OPDM, 100Y, RB, 10MHz, OPSK, 30Hz) SO NR PH1 TDD 5.66 ±3.66 10918 AAE SO NR (OFF-A-OPDM, 100Y, RB, 10MHz, OPSK, 30Hz) SO NR PH1 TDD 5.87 ±3.66 10928 AAD SO NR (OFF-A-OPDM, 100Y, RB, 10MHz, OPSK, 30Hz) SO NR PH1 TDD 5.84 ±3.86 10928 AAD SO NR (OFF-A-OPDM, 100Y, RB, 20MHz, OPSK, 30Htz) SO NR PH1 TDD 5.84 ±3.86 10928 AAD SO NR (OFF-A-OPDM, 100Y, RB, 20MHz, OPSK, 30Htz) SO NR PH1 TDD 5.84 ±3.86 10928 AAD SO NR (OFF-A-OPDM, 100Y, RB, 20MHz, OPSK, 30Htz) SO NR PH1 TDD 5.84 ±4.86 10928 AAD SO NR (OFF-A-OPDM, 100Y, RB, 20MHz, OPSK, 30Htz) SO NR PH1 TDD 5.84 ±4.86 10928 AAD SO NR (OFF-A-OPDM, 100K, RB, 20MHz, OPSK, 30Htz) SO NR PH1 TDD 5.84 ±4.86 10928 AAD SO NR (OFF-A-OPDM, 100K, RB, 20MHz, OPSK, 10Hz) SO NR PH1 TDD 5.84 ±4.86		_				
19917 AAD 55 NA (DF1+0FDA, 50% RB, 100MHz, OPSK, 300Hz) 55 NA (DF1+0FDA, 100% RB, 10MHz, OPSK, 300Hz) 55 NA (DF1+0FDA, 100% RB, 10MHz, OPSK, 300Hz) 55 NA (PF1+10D) 5.66 ±9.96 19920 AAB 55 NA (DF1+0FDA, 100% RB, 10MHz, OPSK, 300Hz) 55 NA (PF1+10D) 5.67 ±9.86 19922 AAB 55 NA (DF1+0FDA, 100% RB, 10MHz, OPSK, 300Hz) 55 NA (PF1+0DD) 5.64 ±9.86 19922 AAB 55 NA (DF1+0FDM, 100% RB, 20MHz, OPSK, 300Hz) 55 NA (PF1+0DD) 5.64 ±9.86 19922 AAB 55 NA (DF1+0FDM, 100% RB, 20MHz, OPSK, 30Hz) 55 NA (PF1+0DD) 5.64 ±9.86 19924 AAD 55 NA (PF1+0FDM, 100% RB, 20MHz, OPSK, 30Hz) 55 NA (PF1+0DD) 5.64 ±9.86 19928 AAD 55 NA (PF1+0FDM, 100% RB, 20MHz, OPSK, 30Hz) 55 NA (PF1+0DD) 5.84 ±9.86 19928 AAD 56 NA (PF1+0FDM, 100% RB, 20MHz, OPSK, 30Hz) 50 NA (PF1+0DD) 5.84 ±9.86 19938 AAD 56 NA (PF1+0FDM, 100%, RB, 20MHz, OPSK, 15Hz) 50 NA (PF1+0DD) 5.84 ±9.86 19938 AAD 56 NA (PF1+0FDM, 17B,	10916					
19918 ARE 50 NR (DF+20FM, 1990; NB; 50H; CPSK, 50H; P) 50 NR (PF+20FM, 1996; NB; 50H; CPSK, 50H; P) 50 NR (PF+10FD) 566 436 19921 AAE 50 NR (DF+20FM, 1996; NB; 19MH; CPSK, 50H; P) 50 NR (PF+10FD) 547 456 19921 AAE 50 NR (DF+20FM, 1996; NB; 19MH; CPSK, 50H; P) 50 NR (PF+10FD) 547 456 19922 AAE 50 NR (DF+20FM, 1996; NB; 29MH; CPSK, 50H; P) 50 NR (PF+10FD) 544 456 19924 AAD 50 NR (DF+20FM, 1996; NB; 29MH; CPSK, 50H; P) 50 NR (PF+10FD) 544 456 19924 AAD 50 NR (DF+20FM, 1996; NB; 20MH; CPSK, 50H; P) 50 NR (PF+10FD) 544 456 19926 AAD 50 NR (DF+20FM, 1986; MH; CPSK, 50H; P) 50 NR (PF+10FD) 542 456 19928 AAD 50 NR (DF+20FM, 178, 10MH; CPSK, 50H; P) 50 NR (PF+10FD) 542 456 19928 AAD 50 NR (DF+20FM, 178, 30H; CPSK, 51H; P) 50 NR (PF+10FD) 542 456 19928 AAD 50 NR (DF+20FM, 178, 30H; CPSK, 15H; P) 50 NR (PF+10FD) 542 560 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
19999 AKD 50 NR (PFL+0FDM, 100% RB, 10MHL, 0PSK, 300Hz) 50 NR PH TOD 5.87 +386 1982 AKD 50 NR (DFL+0FDM, 100% RB, 20MHz, 0PSK, 300Hz) 50 NR PH TOD 5.84 ±56 1982 AKD 50 NR (DFL+0FDM, 100% RB, 20MHz, 0PSK, 300Hz) 50 NR PH TOD 5.84 ±56 1982 AKD 50 NR (DFL+0FDM, 100% RB, 20MHz, 0PSK, 300Hz) 50 NR PH TOD 5.84 ±56 1982 AKD 50 NR (DFL+0FDM, 100% RB, 20MHz, 0PSK, 300Hz) 50 NR PH TOD 5.84 ±56 1982 AKD 50 NR (DFL+0FDM, 100% RB, 20MHz, 0PSK, 30MHz) 50 NR PH TOD 5.84 ±56 1982 AKD 50 NR (DFL+0FDM, 100% RB, 20MHz, 0PSK, 30MHz) 50 NR PH TOD 5.84 ±58 1982 AAD 50 NR (DFL+0FDM, 100% RB, 20MHz, 0PSK, 30MHz) 50 NR PH TDD 5.84 ±58 1982 AAD 50 NR (DFL+0FDM, 17B, MHL-0PSK, 15NHz) 50 NR PH TDD 5.84 ±58 1988 AAD 50 NR (DFL+0FDM, 17B, MHL-0PSK, 15NHz) 50 NR PH TDD 5.84 ±58 1988 AAD 50 NR (DFL+0						
19820 AAB 6A NR (DPT+o-CRM, 1009, RB, 2014;, QPSK, 3034H2) SG NR (PF1+OTDD 5.6.7 9.9.6 19821 AAS IS ON NR (DPT+o-CRM, 1009, RB, 2014;, QPSK, 3034H2) SG NR (PF1+OTDD 5.6.4 9.9.6 19822 AAS IS ON NR (DPT+o-CRM, 1009, RB, 2014;, QPSK, 3034H2) SG NR (PF1+OTDD 5.6.4 9.9.6 19824 AAO IS ON NR (DPT+o-CRM, 1009, RB, 2014;, QPSK, 3034H2) SG NR (PF1+OTDD 5.6.4 9.9.6 19825 AAO IS ON NR (DPT+o-CRM, 1009, RB, 2014;, QPSK, 3034H2) SG NR (PF1+OTDD 5.6.4 9.9.6 19826 AAO IS ON NR (DPT+o-CRM, 1007, RB, 2014;, QPSK, 154H2) SG NR (PF1+OTDD 5.5.2 9.9.6 19828 AAO IS ON NR (DPT+O-CRM, 11, RB, 10MH2, QPSK, 154H2) SG NR (PF1+OTD) 5.5.2 9.9.6 19839 AAC IS ON NR (DPT+O-CRM, 11, RB, 10MH2, QPSK, 154H2) SG NR (PF1+OTD) 5.5.1 9.9.6 19839 AAC IS ON RDF1+OTDM, 11, RB, 20MH2, QPSK, 154H2) SG NR (PF1+OTD) 5.5.1 9.9.6 19839 AAC IS ON RDF1+OTDM, 11, RB, 20MH2, QPSK, 154H2) SG NR (PF1+OTD) 5.	10919	AAC				
10821 AAC 6 AM RDTF-DFDM, 100K RD, 200K, 300Hz) SG AM RFH TOD 5.6.4 ±9.8 10922 AAC 5 AM (DFT-DFDM, 100K, RD, 200Hz, 200K, 300Hz) SG AM RFH TOD 5.6.4 ±9.8 10924 AAD 5 AM (DFT-DFDM, 100K, RD, 200Hz, 200K, 300Hz) SG AM RFH TOD 5.6.4 ±9.8 10924 AAD 5 AM (DFT-DFDM, 100K, RD, 200Hz, 200K, 300Hz) SG AM RFH TOD 5.6.4 ±9.8 10926 AAD 5 AM (DFT-DFDM, 100K, RD, 200Hz, 200K, 300Hz) SG AM RFH TOD 5.6.4 ±9.8 10926 AAD 5 AM (DFT-SOFDM, 100K, RD, 200Hz, 200K, 300Hz) SG AM RFH TOD 5.6.4 ±9.6 10928 AAD 5 AM (DFT-SOFDM, 100K, RD, 200Hz, 200K, 300Hz) SG AM RFH TOD 5.5.4 ±9.6 10928 AAD 5 CM (DFT-SOFDM, 118, 810Hz) SG AM RFH TOD 5.5.2 ±9.6 10928 AAD 5 CM (DFT-SOFDM, 118, 810Hz) SG AM RFH TOD 5.5.1 ±9.6 10939 AAC 5 CM (DFT-SOFDM, 118, 810Hz) SG AM RFH TOD 5.5.1 ±9.6 10938 AAD	10920	AAB				
19822 AAB 50 NM (DFT-sOFDM, 1000 R, B) 25 MHz, (DFK, 30 MHz) S0 NM (FT TOD) 5.82 1.9.8 19824 AAC 56 NM (DFT-sOFDM, 1000 R, B) 20 MHz, (DFK, 30 MHz) S0 AM (FT TOD) 5.84 4.98 19925 AAC 56 NM (DFT-sOFDM, 1000 R, B) 20 MHz, (DFK, 30 MHz) S0 AM (FT TOD) 5.84 4.98 19925 AAC 56 NM (DFT-sOFDM, 1000 R, B) 20 MHz, (DFK, 30 MHz) S0 MM FT TOD) 5.84 4.95 19926 AAC 56 NM (DFT-sOFDM, 1000 R, B) 20 MHz, (DFK, 40 MHz) S0 MM FT TOD) 5.82 4.96 19927 AAD 50 NM (DFT-sOFDM, 1 BB, 6 MHz, (DFK, 15 Hz) S0 NM FT TOD) 5.82 4.96 19928 AAD 50 NM (DFT-sOFDM, 1 BB, 16 MHz, (DFK, 15 Hz) S0 NM FT IF TDD) 5.52 4.96 19931 AAC 50 NM (DFT-sOFDM, 1 BB, 20 MHz, OFSK, 15 Hz) 50 NM FR I FDD) 5.51 4.96 19932 AAC 50 NM (DFT-sOFDM, 1 BB, 20 MHz, OFSK, 15 Hz) 50 NM FR I FDD) 5.51 4.96 19933 AAC 50 NM (DFT-sOFDM, 1 BB, 20 MHz, OFSK, 15 Hz) 50 NM FR I FDD) 5.51 4.96	10921	AAC				
1982 AAC 50 AM (DFFs-OFDM, 100K PB, 30MH2, OPSK, 30MH2) S6 AM FFH TOD 5.84 9.95 1982 AAC 50 AM (DFFs-OFDM, 100K PB, 30MH2, OPSK, 30HH2) S6 AM FFH TOD 5.85 9.96 1982 AAC 50 AM (DFFs-OFDM, 100K PB, 50MH2, OPSK, 30HH2) S6 AM FFH TOD 5.84 9.96 1982 AAD 50 AM (DFFs-OFDM, 100K PB, 50MH2, OPSK, 30HH2) S6 AM FFH TOD 5.84 9.95 1982 AAD 50 AM (DFFs-OFDM, 176K, 91KH2) S6 AM FFH TOD 5.52 9.95 1982 AAD 50 AM (DFFs-OFDM, 176K, 95K, 15HH2) S6 AM FFH TOD 5.52 9.95 19939 AAC 50 AM (DFFs-OFDM, 176K, 97K, 15HH2) S6 AM FFH TOD 5.51 9.85 19931 AAC 50 AM (DFFs-OFDM, 176K, 97K, 15HH2) S6 AM FFH TOD 5.51 9.86 19932 AAC 50 AM (DFFs-OFDM, 176K, 97K, 15HH2) S6 AM FFH TOD 5.51 9.86 19933 AAC 50 AM (DFFs-OFDM, 176K, 97K, 15HH2) S6 AM FFH TOD 5.51 9.86 19934 AAC 50 AM (DFFs-OFDM, 176K, 97K, 15HH2)<	10922	AAB				
19982 AAD 6G NR PICT-SOFDM, 100%, RD, 40 MHz, OPSK, 30 HHz) 5G NR PICT TOD 5,84 49.6 19982 AAD SG NR IDT-SOFDM, 100%, RD, 60 MHz, OPSK, 30 HHz) SG NR PICT TOD 5,84 49.6 19982 AAD SG NR IDT-SOFDM, 100%, RD, 60 MHz, OPSK, 30 HHz) SG NR PIT TOD 5,84 49.6 19982 AAD SG NR IDT-SOFDM, 100%, RD, 60 MHz, OPSK, 15 HHz) SG NR PIT FDD 5,52 49.8 19989 AAC SG NR IDT-SOFDM, 118, 15 MHz, OPSK, 15 HHz) SG NR PIT FDD 5,51 49.6 19939 AAC SG NR IDT-SOFDM, 118, 20 MHz, OPSK, 15 HHz) SG NR PIT FDD 5,51 49.6 19939 AAC SG NR IDT-SOFDM, 118, 20 MHz, OPSK, 15 HHz) SG NR PIT FDD 5,51 49.6 19939 AAC SG NR IDT-SOFDM, 118, 20 MHz, OPSK, 15 HHz) SG NR PIT FDD 5,51 49.6 19939 AAD SG NR IDT-SOFDM, 118, 20 MHz, OPSK, 15 HHz) SG NR PIT FDD 5,51 49.6 19939 AAD SG NR IDT-SOFDM, 50% RB, 50 HHz, OPSK, 15 HHz) SG NR PIT FDD 5,51 49.6 19939 </td <td>10923</td> <td>AAC</td> <td>5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)</td> <td></td> <td></td> <td></td>	10923	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)			
19928 AAC 54 NH (DFT=-0CPM, 100% RB, 50 MHz, DPSK, 30 HHz) 56 NH FRI TDD 5.84 49.8 19828 AAD 56 NH (DFT=-0CPM, 100% RB, 50 MHz, OPSK, 150 HHz) 56 NH FRI TDD 5.94 49.8 19828 AAD 56 NH (DFT=-0CPM, 100% RB, 50 MHz, OPSK, 154 Hz) 56 NH FRI TDD 5.52 49.6 19829 AAD 56 NH (DFT=-0CPM, 148, 154 Hz) 56 NH FRI FDD 5.52 49.6 19839 AAC 56 NH (DFT=-0CPM, 148, 154 Hz) 56 NH FRI FDD 5.51 49.8 19839 AAC 56 NH (DFT=-0CPM, 148, 20 HKz, OPSK, 154 Hz) 56 NH FRI FDD 5.51 49.8 19839 AAC 56 NH (DFT=-0CPM, 148, 20 HKz, OPSK, 154 Hz) 56 NH FRI FDD 5.51 49.6 19839 AAC 56 NH (DFT=-0CPM, 148, 20 HKz, OPSK, 154 Hz) 56 NH FRI FDD 5.51 49.6 19839 AAC 56 NH (DFT=-0CPM, 148, 20 HKz, OPSK, 154 Hz) 56 NH FRI FDD 5.51 49.6 1984 AAC 56 NH (DFT=-0CPM, 56 KR, 51 Hz) 56 NH FRI FDD 5.51 49.6 1984 AAD 56 NH (DF	10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)			
19928 AND Sol NR (DFT-6-OFDM, 100% RB, 60 MHz, OPSK, 30 Hz) Sol NR (FT TDD 5.84 49.6 19927 AND SG NR (DFT-6-OFDM, 100% RB, 60 MHz, OPSK, 15 Hz) SG NR FRI FDD 5.52 4.9.6 19928 AND SG NR (DFT-6-OFDM, 18B, 15 MHz, OPSK, 15 Hz) SG NR FRI FDD 5.52 4.9.6 19938 AAC SG NR (DFT-6-OFDM, 18B, 15 MHz, OPSK, 15 Hz) SG NR FRI FDD 5.52 4.9.6 19938 AAC SG NR (DFT-6-OFDM, 18B, 20 MHz, OPSK, 15 Hz) SG NR FRI FDD 5.51 4.9.6 19938 AAC SG NR (DFT-6-OFDM, 18B, 20 MHz, OPSK, 15 Hz) SG NR FRI FDD 5.51 1.9.6 19938 AAC SG NR (DFT-6-OFDM, 18B, 20 MHz, OPSK, 15 Hz) SG NR FRI FDD 5.51 1.9.6 19938 AAD SG NR (DFT-6-OFDM, SFR, 80 MHz, OPSK, 15 Hz) SG NR FRI FDD 5.90 4.9.6 19938 AAD SG NR (DFT-6-OFDM, SFR, 80 MHz, OPSK, 15 Hz) SG NR FRI FDD 5.90 4.9.6 19938 AAC SG NR (DFT-6-OFDM, SFR, 80 MHz, OPSK, 15 Hz) SG NR FRI FDD 5.90 4.9.6 1994	10925	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	+		
1982 AD SG NR (DT=-OFDM, 100; RB, 80 MHz, OPSK, 154Hz) SG NR FRI FDD 5.54 49.6 1982 AD SG NR (DT=-SOFDM, 1R 8, 114Hz, OPSK, 154Hz) SG NR FRI FDD 5.52 49.6 19830 AAC SG NR (DT=-SOFDM, 1R 8, 114Hz, OPSK, 154Hz) SG NR FRI FDD 5.52 49.6 19830 AAC SG NR (DT=-SOFDM, 1R 8, 154Hz, OPSK, 154Hz) SG NR FRI FDD 5.51 49.6 19832 AAC SG NR (DT=-SOFDM, 1R 8, 20 MHz, OPSK, 154Hz) SG NR FRI FDD 5.51 49.6 19933 AAC SG NR (DT=-SOFDM, 1R 8, 20 MHz, OPSK, 154Hz) SG NR FRI FDD 5.51 49.6 19934 AAC SG NR (DT=-SOFDM, 1R 8, 20 MHz, OPSK, 154Hz) SG NR FRI FDD 5.51 49.6 19935 AAD SG NR (DT=-SOFDM, 189, 20 MHz, OPSK, 154Hz) SG NR FRI FDD 5.51 49.6 19936 AAD SG NR (DT=-SOFDM, 50% RB, 30 MHz, OPSK, 154Hz) SG NR FRI FDD 5.51 49.6 19937 AAD SG NR (DT=-SOFDM, 50% RB, 30 MHz, OPSK, 154Hz) SG NR FRI FDD 5.82 49.6 19938 AA	10926	AAD		·		
19928 AAD SG NR (DFT=OFDM, 1R8, SMHz, OPSK, 15 HzH) SG NR FR1 FDD 5.52 49.6 19928 AAC SG NR (DFT=OFDM, 1R8, 15 MHz, OPSK, 15 HzHz) SG NR FR1 FDD 5.52 49.6 19931 AAC SG NR (DFT=OFDM, 1R8, 15 MHz, OPSK, 15 HzHz) SG NR FR1 FDD 5.51 49.6 19933 AAC SG NR (DFT=OFDM, 1R8, 20 MHz, OPSK, 15 HzHz) SG NR FR1 FDD 5.51 49.6 19933 AAC SG NR (DFT=OFDM, 1R8, 20 MHz, OPSK, 15 HzHz) SG NR FR1 FDD 5.51 49.6 19933 AAC SG NR (DFT=OFDM, 1R8, 20 MHz, OPSK, 15 HzHz) SG NR FR1 FDD 5.51 49.6 19933 AAC SG NR (DFT=OFDM, 578, 80 KHz, OPSK, 15 HzHz) SG NR FR1 FDD 5.51 49.6 19934 AAC SG NR (DFT=OFDM, 578, 81 KHz, OPSK, 15 HzHz) SG NR FR1 FDD 5.52 49.8 19838 AAC SG NR (DFT=OFDM, 578, 81 KHz, OPSK, 15 HzHz) SG NR FR1 FDD 5.52 49.8 19849 AAC SG NR (DFT=OFDM, 578, 81 KHz, OPSK, 15 HzHz) SG NR FR1 FDD 5.52 49.6 19849 AAC	10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)			
19929 AAD G NR (DFT=-OFDM, 188, 10AHz, OPSK, 15KHz) 50 NR FR1 FDD 5.52 49.6 19930 AAC G NR (DFT=-OFDM, 188, 20HHz, OPSK, 15KHz) 50 NR FR1 FDD 5.51 49.6 19932 AAC G NR (DFT=-OFDM, 188, 20HHz, OPSK, 15KHz) 50 NR FR1 FDD 5.51 49.6 19933 AAC G NR (DFT=-OFDM, 188, 20HHz, OPSK, 15KHz) 50 NR FR1 FDD 5.51 49.6 19934 AAC G NR (DFT=-OFDM, 188, 20HHz, OPSK, 15KHz) 50 NR FR1 FDD 5.51 49.6 19935 AAD G NR (DFT=-OFDM, 1788, 50HHz, OPSK, 15KHz) 50 NR FR1 FDD 5.51 49.6 19938 AAC G NR (DFT=-OFDM, 50% RB, 50HHz, OPSK, 15KHz) 50 NR FR1 FDD 5.50 49.6 19939 AAC G NR (DFT=-OFDM, 50% RB, 50HHz, OPSK, 15KHz) 50 NR FR1 FDD 5.80 49.6 19944 AAC G NR (DFT=-OFDM, 50% RB, 20HHz, OPSK, 15KHz) 50 NR FR1 FDD 5.88 49.6 19944 AAC G NR (DFT=-OFDM, 50% RB, 20HHz, OPSK, 15KHz) 50 NR FR1 FDD 5.88 49.6 19944 AAC	10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5,52	
10831 AAC 56 N RIOFF-OFDM, 188, 20MHz, OPSK, 15MHz) 56 N R FIT FDD 5.51 4.96 10932 AAC 56 N R (DFF-SOFDM, 188, 20MHz, OPSK, 15MHz) 56 N R FIT FDD 5.51 4.96 10933 AAC 56 N R (DFF-SOFDM, 188, 20MHz, OPSK, 15MHz) 56 N R FIT FDD 5.51 4.96 10934 AAC 56 N R (DFF-SOFDM, 188, 50MHz, OPSK, 15KHz) 56 N R FIT FDD 5.51 4.96 10935 AAD 56 N R (DFF-SOFDM, 578, 86, 50MHz, OPSK, 15KHz) 56 N R FIT FDD 5.50 4.96 10936 AAC 56 N R (DFF-SOFDM, 50% R B, 50MHz, OPSK, 15KHz) 56 N R FIT FDD 5.80 4.96 10938 AAC 56 N R (DFF-SOFDM, 50% R B, 50MHz, OPSK, 15KHz) 56 N R FIT FDD 5.80 4.96 10941 AAC 56 N R (DFF-SOFDM, 50% R B, 20MHz, OPSK, 15KHz) 56 N R FIT FDD 5.88 4.96 10944 AAC 56 N R (DFF-SOFDM, 50% R B, 20MHz, OPSK, 15KHz) 56 N R FIT FDD 5.88 4.96 10944 AAC 56 N R (DFF-SOFDM, 50% R B, 20MHz, OPSK, 15KHz) 56 N R FIT FDD 5.85 4.96 1	10929	AAD		5G NR FR1 FDD	5.52	
10922 AAC 5G NR (DFF=OFDM, 1 RB, 25MHz, OPSK, 15 Hz) 5G NR PRI FDD 5.51 4.9.6 10933 AAC 5G NR (DFF=OFDM, 1 RB, 30MHz, OPSK, 15 Hz) 5G NR FRI FDD 5.51 4.9.6 10938 AAC 5G NR (DFF=OFDM, 1 RB, 40MHz, OPSK, 15 Hz) 5G NR FRI FDD 5.51 4.9.6 10938 AAD 5G NR (DFF=OFDM, 50%, RS, 5MHz, OPSK, 15 Hz) 5G NR FRI FDD 5.90 4.9.6 10938 AAC 5G NR (DFF=OFDM, 50%, RS, 15 Hz) 5G NR FRI FDD 5.9.6 4.9.6 10938 AAC 5G NR (DFF=OFDM, 50%, RS, 15 Hz) 5G NR FRI FDD 5.8.2 4.9.6 10940 AAC 5G NR (DFF=OFDM, 50%, RS, 25 MHz, OPSK, 15 Hz) 5G NR FRI FDD 5.8.3 4.9.6 10941 AAC 5G NR (DFF=OFDM, 50%, RS, 30 MHz, OPSK, 15 Hz) 5G NR FRI FDD 5.8.3 4.9.6 10942 AAC 5G NR (DFF=OFDM, 50%, RS, 50 MHZ, OPSK, 15 Hz) 5G NR FRI FDD 5.8.3 4.9.6 10944 AAC 5G NR (DFF=OFDM, 50%, RS, 50 MHZ, OPSK, 15 Hz) 5G NR (DFF=OFDM, 50%, RS, 50 MHZ, OPSK, 15 Hz) 5G NR (DFF=OFDM, 100%, RS, 50 MHZ, OPSK, 15 Hz)	10930	AAC		5G NR FR1 FDD	5,52	±9.6
10933 AAC 5G NR (DFT=OFDM, 1RB, 30MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.51 49.6 10934 AAC 5G NR (DFT=OFDM, 1RB, 50MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.51 49.6 10936 AAD 5G NR (DFT=OFDM, 1RB, 50MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.71 49.6 10937 AAD 5G NR (DFT=OFDM, 50%, RB, 15MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.30 49.6 10939 AAC 5G NR (DFT=OFDM, 50%, RB, 15MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.82 49.6 10939 AAC 5G NR (DFT=OFDM, 50%, RB, 20MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.83 49.6 10941 AAC 5G NR (DFT=OFDM, 50%, RB, 20MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.83 49.6 10942 AAC 5G NR (DFT=OFDM, 50%, RB, 20MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.83 49.6 10944 AAC 5G NR (DFT=OFDM, 50%, RB, 20MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.84 49.6 10944 AAC 5G NR (DFT=OFDM, 100%, RB, 50MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.84 49.6 10944 A		_		5G NR FR1 FDD	5.51	±9.6
10383 AAC 56 NR (DFT=OFDM, 1BR, 40MHz, OPSK, 15Hz) 56 NR FR1 FDD 5.51 1.9.6 10383 AAD 56 NR (DFT=OFDM, 1BS, 5MHz, OPSK, 15Hz) 5G NR FR1 FDD 5.51 1.9.6 10383 AAD 56 NR (DFT=OFDM, 50%, RB, 5MHz, OPSK, 15Hz) 5G NR FR1 FDD 5.90 1.9.6 10383 AAC 5G NR (DFT=OFDM, 50%, RB, 15MHz, OPSK, 15Hz) 5G NR FR1 FDD 5.80 4.9.6 10383 AAC 5G NR (DFT=OFDM, 50%, RB, 20MHz, OPSK, 15Hz) 5G NR FR1 FDD 5.80 4.9.6 10494 AAC 5G NR (DFT=OFDM, 50%, RB, 20MHz, OPSK, 15Hz) 5G NR FR1 FDD 5.83 4.9.6 10441 AAC 5G NR (DFT=OFDM, 50%, RB, 20MHz, OPSK, 15Hz) 5G NR FR1 FDD 5.85 4.9.6 10441 AAD 5G NR (DFT=OFDM, 100%, RB, 5MHz, OPSK, 15Hz) 5G NR FR1 FDD 5.85 4.9.6 10444 AAD 5G NR (DFT=OFDM, 100%, RB, 5MHz, OPSK, 15Hz) 5G NR FR1 FDD 5.81 4.9.6 10444 AAD 5G NR (DFT=OFDM, 100%, RB, 5MHz, OPSK, 15Hz) 5G NR FR1 FDD 5.81 4.9.6 10444		-		5G NR FR1 FDD	5.51	±9.6
10393 ADD 5G NR (DFL=OFDM, 1 RB, 50MHz, OPSK, 15KHz) 5G NR FRI FDD 5.61 1.96 10393 AAD 5G NR (DFL=OFDM, 50% RB, 10MHz, OPSK, 15KHz) 5G NR FRI FDD 5.90 ±9.6 10393 AAD 5G NR (DFL=OFDM, 50% RB, 10MHz, OPSK, 15KHz) 5G NR FRI FDD 5.90 ±9.6 10393 AAC 5G NR (DFL=OFDM, 50% RB, 20MHz, OPSK, 15KHz) 5G NR FRI FDD 5.82 ±9.8 10494 AAC 5G NR (DFL=OFDM, 50% RB, 20MHz, OPSK, 15KHz) 5G NR FRI FDD 5.88 ±9.6 10494 AAC 5G NR (DFL=OFDM, 50% RB, 20MHz, OPSK, 15KHz) 5G NR FRI FDD 5.88 ±9.6 10494 AAD 5G NR (DFL=OFDM, 50% RB, 30MHz, OPSK, 15KHz) 5G NR FRI FDD 5.85 ±9.6 10494 AAD 5G NR (DFL=OFDM, 100% RB, 50MHz, OPSK, 15KHz) 5G NR FRI FDD 5.85 ±9.6 10494 AAD 5G NR (DFL=OFDM, 100% RB, 50MHz, OPSK, 15KHz) 5G NR FRI FDD 5.85 ±9.6 10494 AAC 5G NR (DFL=OFDM, 100% RB, 50MHz, OPSK, 15KHz) 5G NR FRI FDD 5.85 ±9.6 10494 <td< td=""><td></td><td></td><td></td><td>5G NR FR1 FDD</td><td>5.51</td><td>±9.6</td></td<>				5G NR FR1 FDD	5.51	±9.6
10389 AAD 5G NR (DFF-6-DFM), 59%, RB, 10 MHz, QPSK, 15 KHz) 5G NR (FR1 FDD) 5,77 49.6 10397 AAC 5G NR (DFT-6-OFDM), 59%, RB, 10 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5,80 49.6 10398 AAC 5G NR (DFT-6-OFDM), 59%, RB, 10 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5,82 49.6 10390 AAC 5G NR (DFT-6-OFDM), 59%, RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5,89 49.6 10441 AAC 5G NR (DFT-6-OFDM), 59%, RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5,89 49.6 10442 AAC 5G NR (DFT-6-OFDM), 59%, RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5,81 49.6 10444 AAD 5G NR (DFT-6-OFDM), 100%, RB, 5MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5,81 49.6 10444 AAD 5G NR (DFT-6-OFDM), 100%, RB, 10 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5,81 49.6 10444 AAD 5G NR (DFT-6-OFDM), 100%, RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5,81 49.6 10444 AAC 5G NR (DFT-6-OFDM), 100%, RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5,82 4	_	-		5G NR FR1 FDD	5.51	±9.6
10937 ADD 5G NR (DFTs-0FDM, 59% RB, 15 MHz, QPSK, 15 KHz) 5G NR R1 FDD 5.77 ±9.6 10938 AAC 5G NR (DFTs-0FDM, 59% RB, 15 MHz, QPSK, 15 KHz) 5G NR R1 FDD 5.82 ±9.6 10941 AAC 5G NR (DFTs-0FDM, 59% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5.88 ±9.6 10941 AAC 5G NR (DFTs-0FDM, 59% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5.88 ±9.6 10942 AAC 5G NR (DFTs-0FDM, 59% RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5.85 ±9.6 10943 AAD 5G NR (DFTs-0FDM, 109% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5.85 ±9.6 10944 AAD 5G NR (DFTs-0FDM, 100% RB, 5MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5.81 ±9.6 10945 AAD 5G NR (DFTs-0FDM, 100% RB, 5MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5.82 ±9.6 10946 AAC 5G NR (DFTs-0FDM, 100% RB, 5MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5.87 ±9.6 10946 AAC 5G NR (DFTs-0FDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5.87 ±9.6	1			5G NR FR1 FDD	5.51	±9.6
10939 AAC SG NR (DFT-s-OFDM, 50%, RB, 20 MHz, OPSK, 15 KHz) SG NR FR1 FDD 5.80 ± 9.6 10939 AAC SG NR (DFT-s-OFDM, 50%, RB, 20 MHz, OPSK, 15 KHz) SG NR FR1 FDD 5.82 ± 9.6 10940 AAC SG NR (DFT-s-OFDM, 50%, RB, 20 MHz, OPSK, 15 KHz) SG NR FR1 FDD 5.83 ± 9.6 10941 AAC SG NR (DFT-s-OFDM, 50%, RB, 20 MHz, OPSK, 15 KHz) SG NR FR1 FDD 5.85 ± 9.6 10942 AAD SG NR (DFT-s-OFDM, 50%, RB, 30 MHz, OPSK, 15 KHz) SG NR FR1 FDD 5.85 ± 9.6 10944 AAD SG NR (DFT-s-OFDM, 100%, RB, 10 MHz, OPSK, 15 KHz) SG NR FR1 FDD 5.83 ± 9.6 10945 AAD SG NR (DFT-s-OFDM, 100%, RB, 10 MHz, OPSK, 15 KHz) SG NR FR1 FDD 5.83 ± 9.6 10946 AAC SG NR (DFT-s-OFDM, 100%, RB, 20 MHz, OPSK, 15 KHz) SG NR FR1 FDD 5.87 ± 9.6 10949 AAC SG NR (DFT-s-OFDM, 100%, RB, 20 MHz, OPSK, 15 KHz) SG NR FR1 FDD 5.87 ± 9.6 10949 AAC SG NR (DFT-s-OFDM, 100%, RB, 30 MHz, OPSK, 15 KHz) SG NR FR1 FDD 5.87				5G NR FR1 FDD	5.90	±9.6
10393 AAC SG NR (DFT=-OFDM, 50% RB, 20 MHz, OPSK, 15 Hz) SG NR FRI FDD 5.82 ±9.6 10340 AAC SG NR (DFT=-OFDM, 50% RB, 20 MHz, QPSK, 15 Hz) SG NR FRI FDD 5.83 ±9.6 10341 AAC SG NR (DFT=-OFDM, 50% RB, 20 MHz, QPSK, 15 Hz) SG NR FRI FDD 5.83 ±9.6 10342 AAC SG NR (DFT=-OFDM, 50% RB, 20 MHz, QPSK, 15 Hz) SG NR FRI FDD 5.85 ±9.6 10344 AAD SG NR (DFT=-OFDM, 50% RB, 50 MHz, QPSK, 15 Hz) SG NR FRI FDD 5.85 ±9.6 10344 AAD SG NR (DFT=-OFDM, 100% RB, 50 MHz, QPSK, 15 Hz) SG NR FRI FDD 5.85 ±9.6 10345 AAD SG NR (DFT=-OFDM, 100% RB, 15 MHz, QPSK, 15 Hz) SG NR FRI FDD 5.83 ±9.6 10346 AAC SG NR (DFT=-OFDM, 100% RB, 20 MHz, QPSK, 15 Hz) SG NR FRI FDD 5.87 ±9.6 10346 AAC SG NR (DFT=-OFDM, 100% RB, 20 MHz, QPSK, 15 Hz) SG NR FRI FDD 5.87 ±9.6 10346 AAC SG NR (DFT=-OFDM, 100% RB, 20 MHz, QPSK, 15 Hz) SG NR FRI FDD 5.87 ±9.6 <t< td=""><td></td><td></td><td></td><td>5G NR FR1 FDD</td><td>5.77</td><td>±9.6</td></t<>				5G NR FR1 FDD	5.77	±9.6
10940 AAC SG NR (DFT=0CPDM, 50% RB, 20MHz, QPSK, 15KHz) SG NR R1 FDD 5.83 ±9.6 10941 AAC SG NR (DFT=0CPDM, 50% RB, 30MHz, QPSK, 15KHz) SG NR R1 FDD 5.83 ±9.6 10942 AAC SG NR (DFT=0CPDM, 50% RB, 40MHz, QPSK, 15KHz) SG NR R1 FDD 5.85 ±9.6 10943 AAD SG NR (DFT=0CPDM, 50% RB, 40MHz, QPSK, 15KHz) SG NR FR1 FDD 5.85 ±9.6 10944 AAD SG NR (DFT=0CPDM, 100% RB, 10MHz, QPSK, 15KHz) SG NR FR1 FDD 5.83 ±9.6 10945 AAD SG NR (DFT=0CPDM, 100% RB, 10MHz, QPSK, 15KHz) SG NR FR1 FDD 5.83 ±9.6 10946 AAC SG NR (DFT=0CPDM, 100% RB, 28MHz, QPSK, 15KHz) SG NR FR1 FDD 5.87 ±9.6 10948 AAC SG NR (DFT=0CPDM, 100% RB, 30MHz, QPSK, 15KHz) SG NR FR1 FDD 5.87 ±9.6 10954 AAC SG NR (DFT=0CPDM, 100% RB, 30MHz, QPSK, 15KHz) SG NR FR1 FDD 5.92 ±9.6 10955 AAA SG NR (DFT=0CPDM, 100%, RB, 30MHz, QPSK, 15KHz) SG NR FR1 FDD 5.92 ±9.6 10955 <td></td> <td></td> <td></td> <td>5G NR FR1 FDD</td> <td>5.90</td> <td>±9.6</td>				5G NR FR1 FDD	5.90	±9.6
10941 AAC SG NR (DFT=OFDM, 50% RB, 30MHz, OPSK, 15KHz) SG NR FR1 FDD 5.83 ±9.6 10942 AAC SG NR (DFT=OFDM, 50% RB, 30MHz, OPSK, 15KHz) SG NR R1 FDD 5.85 ±9.6 10943 AAD SG NR (DFT=OFDM, 100% RB, 50MHz, OPSK, 15KHz) SG NR FR1 FDD 5.81 ±9.6 10944 AAD SG NR (DFT=OFDM, 100% RB, 50MHz, OPSK, 15KHz) SG NR FR1 FDD 5.81 ±9.6 10945 AAC SG NR (DFT=OFDM, 100% RB, 15MHz, OPSK, 15KHz) SG NR FR1 FDD 5.83 ±9.6 10946 AAC SG NR (DFT=OFDM, 100% RB, 20MHz, OPSK, 15KHz) SG NR FR1 FDD 5.83 ±9.6 10947 AAC SG NR (DFT=OFDM, 100% RB, 20MHz, QPSK, 15KHz) SG NR FR1 FDD 5.87 ±9.6 10949 AAC SG NR (DFT=OFDM, 100% RB, 20MHz, QPSK, 15KHz) SG NR FR1 FDD 5.94 ±9.6 10951 AAD SG NR (DFT=OFDM, 100% RB, 30MHz, QPSK, 15KHz) SG NR FR1 FDD 5.92 ±9.6 10954 AAA SG NR OL (CP-OFDM, TM 3.1, 15KHz) SG NR FR1 FDD 5.94 ±9.6 10955 AAA </td <td></td> <td>+</td> <td></td> <td>5G NR FR1 FDD</td> <td>5.82</td> <td>±9.6</td>		+		5G NR FR1 FDD	5.82	±9.6
10942 AAC 5G NR (DFT=-OFDM, 50% RB, 40MHz, QPSK, 15KHz) 5G NR RP1 FDD 5.85 ±9.6 10943 AAD 5G NR (DFT=-OFDM, 50% RB, 50MHz, QPSK, 15KHz) 5G NR RP1 FDD 5.85 ±9.6 10944 AAD 5G NR (DFT=-OFDM, 100% RB, 10MHz, QPSK, 15KHz) 5G NR RP1 FDD 5.81 ±9.6 10945 AAD 5G NR (DFT=-OFDM, 100% RB, 10MHz, QPSK, 15KHz) 5G NR RP1 FDD 5.83 ±9.6 10947 AAC 5G NR (DFT=-OFDM, 100% RB, 10MHz, QPSK, 15KHz) 5G NR RP1 FDD 5.83 ±9.6 10948 AAC 5G NR (DFT=-OFDM, 100% RB, 20MHz, QPSK, 15KHz) 5G NR RP1 FDD 5.84 ±9.6 10949 AAC 5G NR (DFT=-OFDM, 100% RB, 20MHz, QPSK, 15KHz) 5G NR FP1 FDD 5.87 ±9.6 10950 AAC 5G NR (DFT=-OFDM, 100% RB, 50MHz, QPSK, 15KHz) 5G NR FP1 FDD 5.82 ±9.6 10951 AAD 5G NR (DFT=-OFDM, 100% RB, 50MHz, QPSK, 15KHz) 5G NR FP1 FDD 5.82 ±9.6 10953 AAA 5G NR ND L(CP-OFDM, TM 3.1, 5MHz, 40-AM, 15KHz) 5G NR FP1 FDD 5.82 ±9.6 1095					5.89	±9.6
10943 AAD 5G NR (DFTs-OFDM, 50% RB, 50MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.95 ±9.6 10944 AAD 5G NR (DFTs-OFDM, 100% RB, 50MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.81 ±9.6 10945 AAC 5G NR (DFTs-OFDM, 100% RB, 15MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.83 ±9.6 10946 AAC 5G NR (DFTs-OFDM, 100% RB, 15MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.83 ±9.6 10947 AAC 5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.87 ±9.6 10948 AAC 5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.94 ±9.6 10949 AAC 5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.92 ±9.6 10950 AAC 5G NR (DT-s-OFDM, 100% RB, 20MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.92 ±9.6 10951 AAD 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 40-AM, 15KHz) 5G NR FR1 FDD 8.22 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-OAM, 15KHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-OAM, 30KHz) 5G NR FR1	<u></u>				5.83	±9.6
10944 AD 5G NR (DFFs-OFDM, 100% RB, 5MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.81 ±8.6 10945 AAD 5G NR (DFFs-OFDM, 100% RB, 10MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.83 ±9.6 10946 AAC 5G NR (DFFs-OFDM, 100% RB, 15MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.83 ±9.6 10947 AAC 5G NR (DFFs-OFDM, 100% RB, 20MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10948 AAC 5G NR (DFFs-OFDM, 100% RB, 20MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10949 AAC 5G NR (DFFs-OFDM, 100% RB, 20MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10950 AAC 5G NR (DFFs-OFDM, 100% RB, 50MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.92 ±9.6 10951 AAD 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.15 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.15 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.13 ±9.6 10		_	5G NR (DF I-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10945 AAD 5G NR (DFT=-OFDM, 100%, RB, 10MHz, OPSK, 15 KHz) 5G NR FR1 FDD 5.85 19.8 10946 AAC 5G NR (DFT=-OFDM, 100%, RB, 20MHz, OPSK, 15 KHz) 5G NR FR1 FDD 5.83 19.6 10947 AAC 5G NR (DFT=-OFDM, 100%, RB, 20MHz, OPSK, 15 KHz) 5G NR FR1 FDD 5.87 19.6 10949 AAC 5G NR (DFT=-OFDM, 100%, RB, 20MHz, OPSK, 15 KHz) 5G NR FR1 FDD 5.87 19.6 10949 AAC 5G NR (DFT=-OFDM, 100%, RB, 20MHz, OPSK, 15 KHz) 5G NR FR1 FDD 5.94 19.6 10950 AAC 5G NR (DFT=-OFDM, 100%, RB, 40MHz, OPSK, 15 KHz) 5G NR FR1 FDD 5.92 19.6 10951 AAD 5G NR (DFT=-OFDM, 100%, RB, 40MHz, OPSK, 15 KHz) 5G NR FR1 FDD 5.92 19.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.15 19.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.14 19.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.14 19.6 <td></td> <td></td> <td></td> <td></td> <td>5.95</td> <td>±9.6</td>					5.95	±9.6
10946 AAC 5G NR (DFT=OFDM, 100%, BB, 15MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.83 19.6 10947 AAC 5G NR (DFT=OFDM, 100%, BB, 20MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.87 19.6 10948 AAC 5G NR (DFT=OFDM, 100%, BB, 20MHz, OPSK, 15KHz) 5G NR FR1 FDD 5.84 19.8 10949 AAC 5G NR (DFT=OFDM, 100%, BB, 30 MHz, OPSK, 15 KHz) 5G NR FR1 FDD 5.94 19.6 10951 AAD 5G NR (DFT=OFDM, 100%, BB, 30 MHz, OPSK, 15 KHz) 5G NR FR1 FDD 5.92 19.6 10952 AAA 5G NR FDT=OFDM, 100%, BB, 30 MHz, OPSK, 15 KHz) 5G NR FR1 FDD 5.92 19.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.15 19.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.42 19.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.42 19.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.41 19.6	1					
10947 AAC 5G NR [DFFs-OFDM, 100% RB, 20MHz, QPSK, 15 kHz] 5G NR FR1 FDD 5.87 49.6 10948 AAC 5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 19.6 10949 AAC 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 49.6 10950 AAC 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.92 49.6 10951 AAD 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 8.25 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.15 49.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ±9.6						
10948 AAC 5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15 Hz) 5G NR FR1 FDD 5.94 ±9.6 10949 AAC 5G NR (DFTs-OFDM, 100% RB, 30 Htz, QPSK, 15 Htz) 5G NR FR1 FDD 5.94 ±9.6 10950 AAC 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15 Htz) 5G NR FR1 FDD 5.94 ±9.6 10951 AAD 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15 Htz) 5G NR FR1 FDD 8.25 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.25 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.41 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 16 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.14 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 16 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 16 MHz, 64-QAM, 30			5G NR (DFT-S-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)			
10949 AAC 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5.87 ±9.6 10950 AAC 5G NR (DFTs-OFDM, 100% RB, 40 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5.92 ±9.6 10951 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.25 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.23 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.24 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.31 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM,			5G NR (DFT-S-OFDM, 100% RB, 20 MHZ, QPSK, 15 KHZ)			
10950 AAC SG NR (DFT-s-OFDM, 100%, RB, 40 MHz, QPSK, 15 KHz) SG NR FRI FDD 5.87 19.6 10951 AAD SG NR (DFT-s-OFDM, 100%, RB, 50 MHz, QPSK, 15 KHz) SG NR FRI FDD 5.92 ±9.6 10952 AAA SG NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 KHz) SG NR FRI FDD 8.25 ±9.6 10953 AAA SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) SG NR FRI FDD 8.25 ±9.6 10954 AAA SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) SG NR FRI FDD 8.23 ±9.6 10955 AAA SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz) SG NR FRI FDD 8.42 ±9.6 10956 AAA SG NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 KHz) SG NR FRI FDD 8.14 ±9.6 10957 AAA SG NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 KHz) SG NR FRI FDD 8.14 ±9.6 10958 AAA SG NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 KHz) SG NR FRI FDD 8.61 ±9.6 10959 AAA SG NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 KHz) SG NR FRI TDD 9.33 ±9.6<					_	
10951 AAD 5G NR (0FT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 FDD 5.92 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.15 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.42 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.31 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.33 ±9.6 10960 AAE 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-		-				
10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.15 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.42 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.61 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.61 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.61 ±9.6 10960 AAE 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAC 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 TDD 9.36 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-						
10953 AAA SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.15 ±9.6 10954 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 KHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA SG NR DL (CP-OFDM, TM 3.1, 16 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.61 ±9.6 10958 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.61 ±9.6 10959 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 KHz) 5G NR FR1 FDD 8.33 ±9.6 10950 AAA SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAC SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz) 5G NR FR1 TDD 9.40 ±9.6 10962 AAB SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz) 5G NR FR1 TDD 9.40 ±9.6 10964 AAC SG NR DL (CP-OFDM, TM 3.1, 10 MHz,	<u> </u>		5G NR DI /CP-OEDM TM 3.1 5 MHz 64 OAM 15 HU-1	·		
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10964 AAE 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.29 ±9.6 10965 AAC 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ±9.6 10967 AAC 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10968 AAD 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10972 AAC 5G NR (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.49 ±9.6 10972 AAC 5G NR (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 11.59 ±9.6 10973 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 11.59 ±9.6 10974 AAD 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6	10963	AAC	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)			
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10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ±9.6 10967 AAC 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10968 AAD 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.49 ±9.6 10972 AAC 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.49 ±9.6 10972 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 11.59 ±9.6 10973 AAD 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10974 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10974 AAA ULLA BDR ULLA 1.16 ±9.6 10979 AAA ULLA HDR4 ULLA 8.58 ±9.6 10980 AAA ULLA HDR8 ULLA<	10965	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)			
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10968 AAD 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.49 ±9.6 10972 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 11.59 ±9.6 10973 AAD 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAD 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10978 AAA ULLA BDR ULLA 1.16 ±9.6 10979 AAA ULLA HDR4 1.16 ±9.6 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDR4 10.32 ±9.6			5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)			
10972 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 11.59 ±9.6 10973 AAD 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAD 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10974 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10978 AAA ULLA BDR ULLA 1.16 ±9.6 10979 AAA ULLA HDR4 8.58 ±9.6 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDR94 10.32 ±9.6			5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)			
10973 AAD 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10978 AAA ULLA BDR ULLA 1.16 ±9.6 10979 AAA ULLA HDR4 0.32 ±9.6 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDR94 ULLA 3.19 ±9.6						
10974 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TOD 10.28 ±9.6 10978 AAA ULLA BDR ULLA 1.16 ±9.6 10979 AAA ULLA HDR4 1.16 ±9.6 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDR94 ULLA 10.32 ±9.6 10982 AAA ULLA HDR94 ULLA 3.19 ±9.6						
10978 AAA ULLA BDR ULLA 1.16 ±9.6 10979 AAA ULLA HDR4 ULLA 8.58 ±9.6 10980 AAA ULLA HDR6 ULLA 10.32 ±9.6 10981 AAA ULLA HDRp4 ULLA 3.19 ±9.6					10.28	
10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDR94 ULLA 3.19 ±9.6				ULLA	1.16	±9.6
10981 AAA ULLA HDRp4 ULLA 3.19 ±9.6				ULLA	8,58	±9,6
				ULLA	10.32	±9.6
ULLA HDRp8 ULLA HDRp8 ULLA HDRp8					3.19	±9.6
	10.992	AAAA		ULLA	3.43	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E 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	±9.6
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 FRI TDD	9.38	±9.6
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	ĀĀĀ	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	±9.6
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
11 026	AAB	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	±9.6

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