

RF EXPOSURE TEST REPORT

Test Report No. 15512871H-A-R2

Customer	Nintendo Co., Ltd.
Description of EUT	Game controller
Model Number of EUT	BEE-014
FCC ID	BKEBEE014
Test Regulation	FCC47CFR 2.1093
Test Result	Complied
Issue Date	January 7, 2025
Remarks	NFC part The highest reported SAR Standalone: < 0.1 W/kg Simultaneous transmission: 0.34 W/kg

Approved by **Representative test engineer** T. Nakagawa Lakayuki Tomohisa Nakagawa Takayuki Shimada Engineer Leader ACCREDITED CERTIFICATE 5107.02 The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan, Inc. igtriangleq There is no testing item of "Non-accreditation". Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 24.0

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REVISION HISTORY

Original Test Report No. 15512871H-A

This report is a revised version of 15512871H-A-R1. 15512871H-A-R1 is replaced with this report.

Revision	Test report No.	Date	Page Revised Contents
- (Original)	15512871H-A	November 11, 2024	-
1	15512871H-A-R1	January 6, 2025	- Cover page
			1) Corrected Simultaneous transmission: 1.52 W/kg \rightarrow 0.34 W/kg 2) Deleted SPLSR and Total exposure ratio
			 Clause 2.2 Product description Clause 2.6.3 Simultaneous transmission combinations
			 Section 6 Location and data provision Clause 7.3 Simultaneous transmission SAR result
			Modified the contents.
			- Clause 4.3 Work Procedures
			Deselected checkbox of IEC 62209-1.
			 Appendix Dielectric Property result
			Modified Note of the table.
			- Appendix Simultaneous transmission
			Deleted the section.
			- Appendix Photo of setup and EUT
-			Modified the contents of Antenna location.
2	15512871H-A-R2	January 7, 2025	- Clause 2.6.2 Antenna location
			Corrected the value of Right and Left. Right: $12.8 \rightarrow 23.46$ Left: $23.46 \rightarrow 12.8$

AAN	Asymmetric Artificial Network	GPS	Global Positioning System
AAN	Asymmetric Artificial Network Alternating Current	GPS Hori.	Horizontal
AC	Amplitude Modulation	ICES	Interference-Causing Equipment Standard
AMN	Artificial Mains Network	1023	Input/Output
Amp, AMP	Amplifier	IEC	International Electrotechnical Commission
ANSI	American National Standards Institute	IEEE	Institute of Electrical and Electronics Engineers
Ant, ANT	Antenna	IF	Intermediate Frequency
AP	Access Point	ILAC	International Laboratory Accreditation Conference
	Access Folint		Innovation, Science and Economic Development
ASK	Amplitude Shift Keying	ISED	Canada
Atten., ATT	Attenuator	ISN	Impedance Stabilization Network
AV	Average	ISO	International Organization for Standardization
BPSK	Binary Phase-Shift Keying	JAB	Japan Accreditation Board
BR	Bluetooth Basic Rate	LAN	Local Area Network
BT	Bluetooth	LCL	Longitudinal Conversion Loss
BT LE	Bluetooth Low Energy	LIMS	Laboratory Information Management System
BW	BandWidth	LISN	Line Impedance Stabilization Network
C.F	Correction Factor	MRA	Mutual Recognition Arrangement
Cal Int	Calibration Interval	N/A	Not Applicable
CAV	CISPR AV	NIST	National Institute of Standards and Technology
CCK	Complementary Code Keying	NS	No signal detect.
CDN	Coupling Decoupling Network	NSA	Normalized Site Attenuation
Ch., CH	Channel	OBW	Occupied BandWidth
CISPR	Comite International Special des Perturbations Radioelectriques	OFDM	Orthogonal Frequency Division Multiplexing
Corr.	Correction	PER	Packet Error Rate
CPE	Customer premise equipment	PK	Peak
CW	Continuous Wave	P _{LT}	long-term flicker severity
DBPSK	Differential BPSK	POHC(A)	Partial Odd Harmonic Current
DC	Direct Current	Pol., Pola.	Polarization
DET	Detector	PR-ASK	Phase Reversal ASK
D-factor	Distance factor	P _{ST}	short-term flicker severity
Dmax	maximum absolute voltage change during an observation period	QAM	Quadrature Amplitude Modulation
DQPSK	Differential QPSK	QP	Quasi-Peak
DSSS	Direct Sequence Spread Spectrum	QPSK	Quadrature Phase Shift Keying
DUT	Device Under Test	r.m.s., RMS	Root Mean Square
EDR	Enhanced Data Rate	RBW	Resolution BandWidth
e.i.r.p., EIRP	Equivalent Isotropically Radiated Power	RE	Radio Equipment
EM clamp	Electromagnetic clamp	REV	Reverse
EMC	ElectroMagnetic Compatibility	RF	Radio Frequency
	5 - 1 - 7		
ÉMI	ElectroMagnetic Interference	RFID	
EMI	ElectroMagnetic Interference ElectroMagnetic Susceptibility	RFID RNSS	Radio Frequency Identifier
EMS	ElectroMagnetic Susceptibility	RNSS	Radio Frequency Identifier Radio Navigation Satellite Service
EMS EN	ElectroMagnetic Susceptibility European Norm	RNSS RSS	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications
EMS	ElectroMagnetic Susceptibility	RNSS	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications Receiving Ratio of (Signal + Noise + Distortion) to (Noise +
EMS EN e.r.p., ERP ETSI	ElectroMagnetic Susceptibility European Norm Effective Radiated Power European Telecommunications Standards Institute	RNSS RSS Rx SINAD	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications Receiving Ratio of (Signal + Noise + Distortion) to (Noise + Distortion)
EMS EN e.r.p., ERP ETSI EU	ElectroMagnetic Susceptibility European Norm Effective Radiated Power European Telecommunications Standards Institute European Union	RNSS RSS Rx SINAD S/N	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications Receiving Ratio of (Signal + Noise + Distortion) to (Noise + Distortion) Signal to Noise ratio
EMS EN e.r.p., ERP ETSI EU EUT	ElectroMagnetic Susceptibility European Norm Effective Radiated Power European Telecommunications Standards Institute European Union Equipment Under Test	RNSS RSS Rx SINAD S/N SA, S/A	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications Receiving Ratio of (Signal + Noise + Distortion) to (Noise + Distortion) Signal to Noise ratio Spectrum Analyzer
EMS EN e.r.p., ERP ETSI EU EUT Fac.	ElectroMagnetic Susceptibility European Norm Effective Radiated Power European Telecommunications Standards Institute European Union Equipment Under Test Factor	RNSS RSS Rx SINAD S/N SA, S/A SG	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications Receiving Ratio of (Signal + Noise + Distortion) to (Noise + Distortion) Signal to Noise ratio Spectrum Analyzer Signal Generator
EMS EN e.r.p., ERP ETSI EU EUT Fac. FCC	ElectroMagnetic Susceptibility European Norm Effective Radiated Power European Telecommunications Standards Institute European Union Equipment Under Test Factor Federal Communications Commission	RNSS RSS Rx SINAD S/N SA, S/A SG SVSWR	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications Receiving Ratio of (Signal + Noise + Distortion) to (Noise + Distortion) Signal to Noise ratio Spectrum Analyzer Signal Generator Site-Voltage Standing Wave Ratio
EMS EN e.r.p., ERP ETSI EU EUT Fac. FCC FHSS	ElectroMagnetic Susceptibility European Norm Effective Radiated Power European Telecommunications Standards Institute European Union Equipment Under Test Factor Federal Communications Commission Frequency Hopping Spread Spectrum	RNSS RSS Rx SINAD S/N SA, S/A SG SVSWR THC(A)	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications Receiving Ratio of (Signal + Noise + Distortion) to (Noise + Distortion) Signal to Noise ratio Spectrum Analyzer Signal Generator Site-Voltage Standing Wave Ratio Total Harmonic Current
EMS EN e.r.p., ERP ETSI EU EUT Fac. FAC FHSS FM	ElectroMagnetic Susceptibility European Norm Effective Radiated Power European Telecommunications Standards Institute European Union Equipment Under Test Factor Federal Communications Commission Frequency Hopping Spread Spectrum Frequency Modulation	RNSS RSS Rx SINAD S/N SA, S/A SG SVSWR THC(A) THD(%)	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications Receiving Ratio of (Signal + Noise + Distortion) to (Noise + Distortion) Signal to Noise ratio Spectrum Analyzer Signal Generator Site-Voltage Standing Wave Ratio Total Harmonic Current Total Harmonic Distortion
EMS EN e.r.p., ERP ETSI EU EUT Fac. FAC FHSS FM Freq.	ElectroMagnetic Susceptibility European Norm Effective Radiated Power European Telecommunications Standards Institute European Union Equipment Under Test Factor Federal Communications Commission Frequency Hopping Spread Spectrum Frequency Modulation Frequency	RNSS RSS Rx SINAD S/N SA, S/A SG SVSWR THC(A) THD(%) TR, T/R	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications Receiving Ratio of (Signal + Noise + Distortion) to (Noise + Distortion) Signal to Noise ratio Spectrum Analyzer Signal Generator Site-Voltage Standing Wave Ratio Total Harmonic Current Total Harmonic Distortion Test Receiver
EMS EN e.r.p., ERP ETSI EU EUT Fac. FAC FHSS FM Freq. FSK	ElectroMagnetic Susceptibility European Norm Effective Radiated Power European Telecommunications Standards Institute European Union Equipment Under Test Factor Federal Communications Commission Frequency Hopping Spread Spectrum Frequency Modulation Frequency Frequency Shift Keying	RNSS RSS Rx SINAD S/N SA, S/A SG SVSWR THC(A) THC(A) THD(%) TR, T/R	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications Receiving Ratio of (Signal + Noise + Distortion) to (Noise + Distortion) Signal to Noise ratio Spectrum Analyzer Signal Generator Site-Voltage Standing Wave Ratio Total Harmonic Current Total Harmonic Distortion Test Receiver Transmitting
EMS EN e.r.p., ERP ETSI EU EUT Fac. FAC FMS FM Freq. FSK Fund	ElectroMagnetic Susceptibility European Norm Effective Radiated Power European Telecommunications Standards Institute European Union Equipment Under Test Factor Federal Communications Commission Frequency Hopping Spread Spectrum Frequency Modulation Frequency Frequency Frequency Shift Keying Fundamental	RNSS RSS Rx SINAD S/N SA, S/A SG SVSWR THC(A) THC(A) THD(%) TR, T/R Tx VBW	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications Receiving Ratio of (Signal + Noise + Distortion) to (Noise + Distortion) Signal to Noise ratio Spectrum Analyzer Signal Generator Site-Voltage Standing Wave Ratio Total Harmonic Current Total Harmonic Distortion Test Receiver Transmitting Video BandWidth
EMS EN e.r.p., ERP ETSI EU EUT Fac. FAC FASS FM Freq. FSK Fund FWD	ElectroMagnetic Susceptibility European Norm Effective Radiated Power European Telecommunications Standards Institute European Union Equipment Under Test Factor Federal Communications Commission Frequency Hopping Spread Spectrum Frequency Modulation Frequency Modulation Frequency Shift Keying Fundamental Forward	RNSS RSS Rx SINAD S/N SA, S/A SG SVSWR THC(A) THC(A) THD(%) TR, T/R Tx VBW Vert.	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications Receiving Ratio of (Signal + Noise + Distortion) to (Noise + Distortion) Signal to Noise ratio Spectrum Analyzer Signal Generator Site-Voltage Standing Wave Ratio Total Harmonic Current Total Harmonic Distortion Test Receiver Transmitting Video BandWidth Vertical
EMS EN e.r.p., ERP ETSI EU EUT Fac. FAC FMS FM Freq. FSK Fund	ElectroMagnetic Susceptibility European Norm Effective Radiated Power European Telecommunications Standards Institute European Union Equipment Under Test Factor Federal Communications Commission Frequency Hopping Spread Spectrum Frequency Modulation Frequency Frequency Frequency Shift Keying Fundamental	RNSS RSS Rx SINAD S/N SA, S/A SG SVSWR THC(A) THC(A) THD(%) TR, T/R Tx VBW	Radio Frequency Identifier Radio Navigation Satellite Service Radio Standards Specifications Receiving Ratio of (Signal + Noise + Distortion) to (Noise + Distortion) Signal to Noise ratio Spectrum Analyzer Signal Generator Site-Voltage Standing Wave Ratio Total Harmonic Current Total Harmonic Distortion Test Receiver Transmitting Video BandWidth

Reference: Abbreviations (Including words undescribed in this report)

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Section 1 Customer information

Company Name	Nintendo Co., Ltd.
Address	11-1 Hokotate-cho, Kamitoba, Minami-ku, Kyoto 601-8501, Japan
Telephone Number	+81-75-662-9600
Contact Person	Yosuke Ishikawa

The information provided by the customer is as follows;

- Customer, Description of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer Information
- SECTION 2: Equipment Under Test (EUT) other than the Receipt Date and Test Date
- Appendix Antenna location

Section 2 Equipment under test (EUT)

2.1 Identification of EUT

Description	Game controller
Model Number	BEE-014
Serial Number	HCL01000090183
Condition	Engineering prototype
	(Not for Sale: This sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab
Receipt Date	October 3, 2024
Test Date	October 8, 2024

2.2 Product description

General Specification

Rating	DC 5 V (*.Supply voltage from connector) (*. DC 3.89 V from Re-chargeable Li-ion battery for the internal circuit)
Body-worn accessory	⊠ None □Belt clip □ earphone
Battery option	\boxtimes None \square ()

2.3 Radio Specification

Bluetooth (Low Energy)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	GFSK
Antenna Gain	1.93 dBi

Bluetooth (BR / EDR)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	FHSS (GFSK, π/4 DQPSK, 8 DPSK)
Antenna Gain	1.93 dBi

RFID

Equipment Type	Transceiver
Frequency of Operation	13.56 MHz
Type of Modulation	ASK

2.4 Software information

The power value of the EUT was set for testing as follows (setting value might be different from product specification value).

Software:	NfcCertification Version: 0.2	
Power settings:	Max power setting	

*This setting of software is the worst case.

Any conditions under the normal use do not exceed the condition of setting. In addition, end users cannot change the settings of the output power of the product.

2.5 Tune-up tolerance information

If not specified, listed values are maximum power level.

RFID: the test was performed with the maximum output sample, which is the worst condition considering massproduced. Therefore, SAR result correction by tune-up tolerance is not considered.

BT: 6.5 dBm (4.5 mW)

2.6 Antenna information

Antenna location information is shown in appendix.

2.6.1 Antenna configuration

Rat	BT antenna	RFID antenna
BT	Tx/Rx	-
RFID	-	Tx/Rx

2.6.2 Antenna location

Position	[mm]
Right	23.46
Front	1.84
Back	10.24
Left	12.8
Тор	42.3
Bottom	68.1

2.6.3 Simultaneous transmission combinations

Combinations of Standalone EUT: BT + RFID

Section 3 Definitions

This may contain the definitions which are not used in this report.

This may contain the deminitions which are not used in this report.					
Specific Absorption Rate (SAR)	The time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ), as shown in the following equation:				
	$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dV} \right)$				
Power density (PD) or Sav	The energy per unit time and unit area crossing a surface of area A characterized by the normal unit vector \mathbf{n}^{2} and averaging time.				
	$S_{av} = \frac{1}{AT} \iint (E \times H) \cdot \hat{n} dA dT$				
Absorbed power density (APD)	The APD (absorbed power density) shall be derived from the measured SAR values using the formulas in the Compliance Assessment of the Epithelial.				
	APD 1cm ² (W/m ²) = 10(kg/m ²) × SAR_1g(W/kg) APD 4cm ² (W/m ²) = 20(kg/m ²) ×SAR_8g(W/kg)				
Reported SAR / PD (IPD or APD)	Measured SAR / PD (IPD or APD) is scaled to the maximum tune-up tolerance limit and the maximum duty by the following formulas.				
	Reported SAR, PD = Measured SAR, or PD × scale factor for power × scaled factor for duty(if needed) × Compensatefactor(if needed)				
	Where:				
	Scaled factor for $duty = \frac{1}{Duty}$				
	Compensate factor = $10^{\frac{measurement uncert.[dB]}{10}} - 1 + 0.7$				
Maximum Tune-up tolerance limit, Tune up limit or Tune-up limit	Maximum power including tolerance power specified by customer.				

Symbol	Quantity	Unit	Dimensions
E	Electric field	volt per meter	V / m
f	Frequency	hertz	Hz
Н	Magnetic field	ampere per meter	A/m
λ	Wavelength	meter	m
S	Local power density	watt per square meter	W / m ²
PD	Spatial-average power density	watt per square meter	W / m ² or mW / cm ²
SAR	Specific Absorption Rate	watt per square meter	W / kg

Section 4 Test standard information

4.1 Test specification

⊠FCC47CFR 2.1093	RF Exposure Procedures and Equipment Authorization Policies for Portable Devices
□RSS-102 Issue 6	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
□RSS-102 Issue 5 Amendment 1	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

4.2 Published RF exposure KDB procedures and companion procedures

Name of documents	Title
□KDB 447498 D01(v06)	RF Exposure Procedures and Equipment Authorization Policies for Mobile and
	Portable Devices
KDB 447498 D04(v01)	Interim General RF Exposure Guidance
□KDB 447498 D02(v02r01)	SAR Measurement Procedures for USB Dongle Transmitters
□KDB 648474 D04(v01r04)	SAR Evaluation Considerations for Wireless Handsets
□KDB 941225 D01(v03r01)	3G SAR Measurement Procedures
□KDB 941225 D05(v02r05)	SAR Evaluation Considerations for LTE Devices
□KDB 941225 D06(v02r01)	SAR Evaluation Procedures for Portable Devices with Wireless Router
	Capabilities
□KDB 941225 D07(v01r02)	SAR Evaluation Procedures for UMPC Mini-Tablet Devices
□KDB 616217 D04(v01r02)	SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet
	Computers
⊠KDB 865664 D01(v01r04)	SAR Measurement Requirements for 100MHz to 6 GHz
□KDB 248227 D01(v02r02)	SAR Guidance for IEEE 802.11 (Wi-Fi) transmitters
□KDB 680106 D01(v04)	Equipment authorization of wireless power transfer device
SPR-APD Issue 1	Supplementary Procedure for Assessing Specific Absorption Rate (SAR) and
	Absorbed Power Density (APD) Compliance of Portable Devices in the 6 GHz
	Band (5925-7125 MHz)
□RSS-102.SAR.MEAS	Measurement Procedure for Assessing Specific Absorption Rate (SAR)
	Compliance in Accordance with RSS-102
□Authority inquiry response	Included in the submission document.

4.3 Work Procedures

Name of documents	Title or details
C/N: Work Instructions- ULID-003598	UL Japan, Inc.'s SAR Measurement Equipment Calibration and Inspection Work Procedure
⊠C/N: Work Instructions- ULID-003599	UL Japan, Inc.'s SAR Measurement Work Procedure
⊠IEEE Std 1528-2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.
⊠IEC/IEEE 62209-1528 Edition 1.0 2020-10	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 - Human models, instrumentation and procedures (Frequency range of 4 MHz to 10 GHz)
□IEC 62209-1	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz)
C/N: Work Instructions- ULID-003619	UL Japan, Inc.'s Power Density Measurement Procedure
□IEC/IEEE 63195-1:2021	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) - Part 1: Measurement procedure
□IEC/IEEE 63195-2:2021	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) - Part 2: Computational procedure

4.4 Addition to Standard

No addition, exclusion nor deviation has been made from the standard.

4.5 Reference

Schmid & Partner Engineering AG, DASY Manual TCB workshop slide decks.

Section 5 Limits

General Population / Uncontrolled Environments limit is applied.

5.1 Exposure limit for SAR (FCC)

(A) Limits for Occupational/Controlled Exposure (W/kg)

Spatial Average	Spatial Peak	Spatial Peak
(averaged over the whole body)	(averaged over any 1g of tissue)	(hands/wrists/feet/ankles averaged over 10g)
0.4	8.0	20.0

(B) Limits for General population/Uncontrolled Exposure (W/kg)						
Spatial Average Spatial Peak Spatial Peak						
(averaged over the whole body	(averaged over any 1g of tissue)	(hands/wrists/feet/ankles averaged over 10g)				
0.08	1.6	4.0				

Occupational/Controlled Environments: are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. because of employment or occupation).

General Population/Uncontrolled Environments: are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

5.2 Exposure limit for PD (FCC)

Frequency Range [MHz]	Power Density [mW/cm ²]	Average Time [Minutes]
(A) Limits For Occupational / Controlled Environments		
1,500 – 100,000	5	6
(B) Limits For General Population / Uncontrolled Environments		· · · · ·
1,500 – 100,000	1	30
Note: 1.0 mW/cm ² is 10 W/m ²	•	·

Note: 1.0 mW/cm^2 is 10 W/m^2

Section 6 Location and data provision

Test location: UL Japan, Inc. Ise EMC Lab. Shielded room for SAR testing. 4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN Telephone: +81-596-24-8999

A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919 ISED Lab Company Number: 2973C / CAB identifier: JP0002

EUT (BT) RF exposure data is quoted from below test report published by UL Japan Shonan lab:

	ID	Report Number
BT	Same as this EUT	15276241S-A-R2 (FCC)
		15276241S-B-R2 (ISED)

Section 7 Test result

7.1 Verdict

Complied Highest results are in next section.

7.2 Stand-alone SAR result

RF Exposure C	onditions	Highest Reported exposure value					
		WWAN	2.4 GHz	2.4 GHz	(5 to 6) GHz	(6 to 10) GHz	RFID
			(Including BT LE)	(BT BR/EDR)			
Standalone Tx	Head	N/A	N/A	N/A	N/A	N/A	N/A
(1-g SAR)	Body	N/A	N/A	N/A	N/A	N/A	0.049
(W/kg)	Hotspot	N/A	N/A	N/A	N/A	N/A	N/A
Standalone Tx (10-g SAR) (W/kg)	Limbs	N/A	N/A	N/A	N/A	N/A	N/A
Standalone Tx (Power density) (W/m ²)		N/A	N/A	N/A	N/A	N/A	N/A

All results are less than the limit: complied

Details are shown in appendix.

7.3 Simultaneous transmission SAR result

Simultaneous Transmission RFID + BT =0.049 W/kg + 0.292 W/kg = 0.341 W/kg

The result is less than the limit: complied

Section 8 Uncertainty

Table of uncertainties are listed for ISO/IEC 17025.

	U	ncert.		Prob.	Div.	(ci)	(ci)	Std. Unc.	Std.Unc.
Error Description	Va	alue		Dist.		1g	10g	(1g)	(10g)
Measurement System Errors									
Probe Calibration	±	13.30	%	Ν	2	1	1	±6.6%	±6.55%
Probe Calibration Drift	±	1.7	%	R	√3	1	1	±1.0%	±1.0%
Probe Linearity	±	4.7	%	R	√3	1	1	±2.7%	±2.7%
Broadband Signal	±	2.6	%	R	√3	1	1	±1.5%	±1.5%
Probe Isotropy	±	7.6	%	R	√3	1	1	±4.4%	±4.4%
Other Probe *Electronic	±	1.2	%	Ν	1	1	1	±1.2%	±1.2%
RF Ambient	±	1.8	%	Ν	1	1	1	±1.8%	±1.8%
Probe Positioning	±	0.005	mm	Ν	1	0.29	0.29	±0.2%	±0.2%
Data Processing	±	2.3	%	Ν	1	1	1	±2.3%	±2.3%
Phantom and Device Errors									
Conductivity (meas.)DAK	±	10.0	%	Ν	1	0.78	0.71	±7.8%	±7.1%
Conductivity (temp.) ^{BB}	±	10.0	%	R	√3	0.78	0.71	±4.5%	±4.1%
Phantom Permittivity	±	14.0	%	R	√3	0.25	0.25	±2.0%	±2.0%
Distance DUT - TSL	±	2.0	%	Ν	1	2	2	±4.0%	±4.0%
Device Positioning (+/- 0.5mm)	±	1.0	%	Ν	1	1	1	±1.0%	±1.0%
Device Holder	±	3.6	%	Ν	1	1	1	±3.6%	±3.6%
DUT Modulation ^m	±	2.4	%	R	√3	1	1	±1.4%	±1.4%
Time-average SAR	±	1.7	%	R	√3	1	1	±1.0%	±1.0%
DUT drift	±	2.5	%	Ν	1	1	1	±2.5%	±2.5%
Val Antenna Unc. ^{val}	±	0.0	%	Ν	1	1	1	±0.0%	±0.0%
Unc. Input Power ^{val}	±	0.0	%	Ν	1	1	1	±0.0%	±0.0%
Correction to the SAR results									
Deviation to Target	±	1.9	%	Ν	1	1	0.84	±1.9%	±1.6%
SAR scaling ^p	±	0.0	%	R	√3	1	1	±0.0%	±0.0%
Combined Std. Uncertainty								±14.5%	±14.0%
Expanded STD Uncertainty (x=2)					±29.1%	±28.0%			

Section 9 RF Exposure Conditions

9.1 Test position

Considering normal use case, all surfaces are tested. The test was conservatively performed with test distance 0 mm.

Table Test position

Position	Separation distance	RFID
Right	0 mm	\boxtimes
Front	0 mm	\boxtimes
Back	0 mm	\boxtimes
Left	0 mm	\boxtimes
Тор	0 mm	\boxtimes
Bottom	0 mm	\boxtimes

The test is conducted with Type B, which is the worst case of radio testing.

Section 10 Dielectric Property

10.1 Dielectric Property for SAR

The dielectric parameters were checked prior to assessment using the DAK dielectric probe kit.

+/- 5 % tolerances are required for εr and σ and below table is the target value of the simulated tissue liquid.

For SAR measurement systems that have implemented the SAR error compensation algorithms documented in IEEE Std 1528-2013 or IEC/IEEE 62209-1528, to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, the tolerance for ε r and σ may be relaxed to \pm 10%.

The dielectric parameters are linearly interpolated between the closest pair of target frequencies to determine the applicable dielectric parameters corresponding to the device test frequency.

Tissue dielectric parameters are typically re-measured every three to four days or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

Measured value is rounded off on the test plot data, so some differences might be observed. However, differences don't affect the result of SAR. Results are listed in appendix.

Table standard parameters on the IEC 62209-1 ¹						
Frequency	Relative	Conductivity				
MHz	permittivity ɛ r	S/m				
300	45.3	0.87				
450	43.5	0.87				
750	41.9	0.89				
835	41.5	0.90				
900	41.5	0.97				
1450	40.5	1.20				
1500	40.4	1.23				
1640	40.2	1.31				
1750	40.1	1.37				
1800	40.0	1.40				
1900	40.0	1.40				
2000	40.0	1.40				
2100	39.8	1.49				

Table standard parameters on the IEC 62209-1¹

Frequency MHz	Relative permittivity ɛ r	Conductivity S/m	
2300	39.5	1.67	
2450	39.2	1.80	
2600	39.0	1.96	
3000	38.5	2.40	
3500	37.9	2.91	
4000	37.4	3.43	
4500	36.8	3.94	
5000	36.2	4.45	
5200	36.0	4.66	
5400	35.8	4.86	
5600	35.5	5.07	
5800	35.3	5.27	
6000	35.1	5.48	

Table standard parameters on the IEC/IEEE 62209-1528²,

Frequency	Real part of the complex relative	Conductivity, σ
MHz	permittivity, <i>ɛ</i> r	S/m
6000	35.1	5.48
6500	34.5	6.07
7000	33.9	6.65
7500	33.3	7.24
8000	32.7	7.84
8500	32.1	8.46
9000	31.6	9.08
9500	31.0	9.71
10000	30.4	10.40

Frequency MHz	Real part of the complex relative permittivity, <i>ɛ</i> r	Conductivity, σ S/m
4	55.0	0.75
13	55.0	0.75
30	55.0	0.75

¹ TCB workshop April 2019, Tissue Simulating Liquids (TSL)

² TCB workshop October 2020, for U-NII 6-7GHz Measurement considerations.

Section 11 SAR Measurements

11.1 Measurement configuration for SAR

11.1.1 SAR evaluation procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the E-field at a fixed location above the ear point, central position of flat phantom or found highest point based on fast scan was used as a reference value for assessing the power drop.

Step 2: The SAR distribution at the exposed side of head or body position was measured at a distance of each device from the inner surface of the shell. The area covered the entire dimension of the antenna of EUT and the horizontal grid spacing was based on standard's grids size.

Step 3: Around this point found in the Step 2 (area scan), zoom scan is conducted based on the standard's grids size.

And for any secondary peaks found in the Step2 which are within 2 dB of maximum peak and not with this Step3 (Zoom scan) is repeated. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

Step 4: Re-measurement of the point of SAR at the same location as in Step 1.

Confirmation after SAR testing

It was checked that the power drift [W/kg] is within +/-5 %. The verification of power drift during the SAR test is that DASY system calculates the power drift by measuring the e-filed at the same location at beginning and the end of the scan measurement for each test position.

DASY system calculation power drift value [dB] = $10 \log \left(\frac{Wa}{Wh}\right)$

Before SAR testing	: Wb [W/kg]
After SAR testing	: Wa [W/kg]

Limit of power drift[W] = +/- 5 % X[dB] = $10\log[P] = 10\log(1.05/1) = 10\log(1.05) -10\log(1) = 0.212 \text{ dB}$

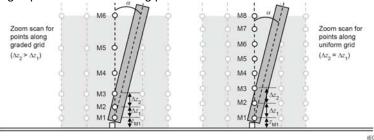
· · · · · · · · · · · · · · · · · · ·			≤ 3 GHz	> 3 GHz		
Maximum distance from closest measurement poin	t (geometric cente	er of probe sensors) to phantom surface	5 mm ± 1 mm	½·δ·ln(2) mm ± 0.5 mm		
Maximum probe angle from probe axis to phantom	surface normal at	the measurement location	30° ± 1°	20° ± 1°		
Maximum area scan spatial resolution: Δx _{Area} , Δy _{Area}	1		≤ 2 GHz: ≤ 15 mm	3 – 4 GHz: ≤ 12 mm		
			2 – 3 GHz: ≤ 12 mm	4 – 6 GHz: ≤ 10 mm		
			6 – 7 GHz: ≤ 8.57 mm			
			When the x or y dimension of the test device, in the measurement plane orientation is smaller than the above, the measurement resolution must be ≤ the correspondit or y dimension of the test device withat least one measurement point on the test device.			
Maximum zoom scan spatial resolution: Δx_{zoom} , Δy_{zi}	oom	≤ 2 GHz: ≤ 8 mm	3 – 4 GHz: ≤ 5 mm			
			2 – 3 GHz: ≤ 5 mm*	4 – 6 GHz: ≤ 4 mm		
				6 – 7 GHz: ≤ 3.4 mm		
Maximum zoom scan spatial resolution, normal to	uniform grid: Δz _{za}	_{iom} (n)	≤ 5 mm	3– 4 GHz: ≤ 4 mm		
phantom surface				4– 5 GHz: ≤ 3 mm		
				5– 6 GHz: ≤ 2 mm		
				6– 7 GHz: ≤ 1.6 mm		
	graded grid	∆z _{zoom} (1): between 1 st two points closestto phantom	≤ 4 mm	3 – 4 GHz: ≤ 3 mm		
		surface		4 – 5 GHz: ≤ 2.5 mm		
				5 – 6 GHz: ≤ 2 mm		
				6 – 7 GHz: ≤ 1.7 mm		
		Δz _{zoom} (n>1): between subsequentpoints	≤ 1.5·Δz _{zoom} (n-1) mm			
Minimum zoomscan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm		
				4 – 5 GHz: ≥ 25 mm		
			1	5 – 7 GHz: ≥ 22 mm		

Additional Requirements³

Unless the following criteria are met, zoom-scan measurement shall be successively repeated using smaller increments, at 2 mm or less from phantom surface

- maximum 1 g SAR < <u>0.1</u> W/kg, or
- both of the following are met:
 - shortest transverse distances d_x and d_y between SAR peak location and -3 dB points shall be larger than Δx_{Zoom} and Δy_{Zoom} , respectively.
 - at the SAR peak location, the ratio of SAR values from the first two z-axis, M1 to M2 points is \leq 30 %.

Fig explanation of measuring point for z direction



³ TCB workshop slide deck, November 2019

Section 12 SAR System check

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, for FCC typically every three to four days, for ISED every 24 h when the liquid parameters are remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 ± 0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.

The depth of tissue-equivalent liquid in a phantom must be \geq 15.0 cm ± 0.5 cm for SAR measurements

 \leq 3 GHz and \geq 10.0 cm ± 0.5 cm for measurements > 3 GHz.

The DASY system with an E-Field Probe was used for the measurements.

The reference transmitter was mounted on the small tripod so that the transmitter feed point was positioned below the center marking of the flat phantom section and the transmitter was oriented parallel to the body axis (the long side of the phantom).

Table: The standard measuring distance

Frequency range	Distance between dipole or CLA
13 MHz	0 mm
0.3 GHz to 1 GHz	15 mm
1 GHz to 6 GHz	10 mm
6 GHz to 10 GHz	5 mm

The scan step was conducted based on the previous section specified.

Distance between probe sensors and phantom surface was set to 1.4 mm.

The transmitter input power (forward power) measured value is listed in the table of SPC.

The results are normalized to 1 W input power other than 1 W input power.

The target(reference) SAR values can be obtained from the calibration certificate of system validation dipoles or CLA, refer to appendix. The target SAR values are quoted from "SAR for nominal Head TSL parameters" on calibration record.

The scaled SAR value shall not deviate from the targets by more than ±10 %. System check results are listed on appendix.

The 1W Scaled up value is rounded off on the test data, so some differences might be observed. However, differences don't affect the result. Results are listed in appendix.

Section 13 SAR requirement

13.1 Common

This procedure covers every condition, so some conditions are not applicable.

When reported SAR value is exceed 1.2 W/kg (if any), device holder perturbation verification is required; however, since distance between device holder and antenna of EUT is enough, it was not conducted.

The sample calculations are shown in definition.

Next section describes the general RF exposure evaluation requirements and serves as an entry point. If the more specific RF exposure guidance existed, it takes procced than this.

When 10-g extremity SAR applies, flowing SAR thresholds are considered by applying a factor of 2.5 to the SARbased exemption thresholds.

13.2 Channel Selection Requirement

This test reduction process provides for the use of test data for one specific channel, while referencing to those data for demonstrating compliance in other required channels for each test position of an exposure condition, within the operating mode of a frequency band. This is limited specifically to when the reported 1-g or 10-g SAR for the midband or highest output power channel meets any of the following conditions:

- 1. SAR ≤ 0.8 W/kg for 1-g, or SAR ≤ 2.0 W/kg for 10-g, when the transmission band span is ≤ 100 MHz
- 2. SAR ≤ 0.6 W/kg for 1-g, or SAR ≤ 1.5 W/kg for 10-g, when the transmission band span is between 100 MHz and 200 MHz
- 3. SAR \leq 0.4 W/kg for 1-g, or SAR \leq 1.0 W/kg for 10-g, when the transmission band span is \geq 200 MHz

SAR measurement standards such as IEEE Std 1528-2013 requires the middle channel to be tested first. This generally applies to wireless devices that are designed to operate in technologies with tight tolerances for maximum output power variations across channels in the band. When the maximum output power variation across the required test channels is > $\frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.

13.3 Repeated measurement

According to KDB 865664 D01.

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

2) When the original highest measured SAR is \geq 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10 % from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is

≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Repeat measurements are not required because of maximum measured SAR value is < 0.8 W/kg.

Section 14 Simultaneous transmission SAR test exclusion considerations

Data is shown in appendix of Simultaneous transmission

14.1 Sum and SPLSR

KDB 447498 D04 General RF Exposure Guidance provides two procedures for determining simultaneous transmission SAR test exclusion: Sum of SAR and SAR to Peak Location Ratio (SPLSR)

If DUT is an "accessories and peripherals", emissions due to other independently authorized transmitters (e.g., "accessories") do not need to be considered to account for possible cumulative effects with the emissions from the device under test⁴.

Sum of SAR

To qualify for simultaneous transmission SAR test exclusion based on sum of SAR, the sum of the reported standalone SARs for all simultaneously transmitting antennas shall be below the applicable standalone SAR limit. If the sum of the SARs is above the applicable limit, then simultaneous transmission SAR test exclusion may still apply if the requirements of the SAR to Peak Location Ratio (SPLSR) evaluation are met. When a pair of the summation is above 1.58 W/kg for 1g SAR, then SAR to Peak Location Ratio (SPLSR) is performed, as conservative even though applicable limit is 1.6 W/kg.

SAR to Peak Location Ratio (SPLSR)

General RF Exposure Guidance explains how to calculate the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR = (SAR_1 + SAR_2)^{1.5} / Ri$$

Where:

SAR¹ is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR₂ is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

Ri is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of

$$Ri = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

In order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

 $SPLSR \leq 0.04$

When an individual antenna transmits at on two bands simultaneously, the sum of the highest <u>reported</u> SAR for the frequency bands should be used to determine SAR₁.or SAR₂. When SPLSR is necessary, the smallest distance between the peak SAR locations for the antenna pair with respect to the peaks from each antenna should be used.

The antennas in all antenna pairs that do not qualify for simultaneous transmission SAR test exclusion must be tested for SAR compliance, according to the enlarged zoom scan and volume scan post-processing procedures in KDB Publication 865664 D01

Hybrid SAR to Peak Location Ratio (SPLSR)^{5 6}

For devices whose simultaneous SAR is > 1.6 W/kg and who do not meet the SPLSR criteria, enlarged zoom scan/volume scan procedure is available. Often needed only because one collocated antenna pair does not meet SPLSR.

Test Procedure

Perform enlarged zoom scan/volume scan on the co-located antenna pair to determine 1g/10g aggregate SAR
 Apply SPLSR procedure for the spatially separated antenna and aggregate SAR distribution of the collocated antenna pair.

⁴ 2024 April TCBW slide decks

⁵ 2019 November TCBW slide decks.

⁶ 2022 April TCBW slide decks.

Instead of doing a small volume scan over a co-located antenna pair, you may algebraically sum the SAR values of the co-located pair and use that value in SPLSR calculation.

– In the calculation you must use the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative

14.2 Total exposure ratio

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluated_k term) shall be used to determine exemption for simultaneous transmission according to Formula from 1.1307(b)(3)(ii)(B).

$$\sum_{i=1}^{a} \frac{Pi}{Pth, i} + \sum_{j=1}^{b} \frac{ERPj}{ERPth, j} + \sum_{k=1}^{c} \frac{Evaluatedk}{Exposure\ Limitk} \le 1$$

Where:

a: number of fixed, mobile, or portable RF sources claiming exemption using the § 1.1307(b)(3)(i)(B) formula for Pth, including existing exempt transmitters and those being added.

b: number of fixed, mobile, or portable RF sources claiming exemption using the applicable § 1.1307(b)(3)(i)(C) Table 1 formula for Threshold ERP, including existing exempt transmitters and those being added.

c: number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance.

Pi: the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

 $P_{th,i}$: the exemption threshold power (Pth) according to the § 1.1307(b)(3)(i)(B) formula for fixed, mobile, or portable RF source i. Also, The Pth is described at section "SAR Exposure Conditions"

ERP: the available maximum time-averaged power or the ERP, whichever is greater, of fixed, mobile, or portable RF source j.

*ERP*_{th,j}: exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$, according to the applicable § 1.1307(b)(3)(i)(C) Table 1 formula at the location in question.

*Evaluated*_k: the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation.

MPE calculation formula for potable RF source:

$$MPE = \frac{Power \times Gain}{4\pi r^2}$$

Where: *Power*: tune up limit in mW unit Gain: antenna gain in liner unit r: 20 cm

Exposure Limit_k: either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable sources, as applicable

LIMS ID	Description Manufacturer		Model	Serial	Last Cal Date	Interval
141598	Dosimetric E- Field Probe	Schmid & Partner Engineering AG	EX3DV4	3917	2024/05/21	12
141483	Data Acquisition Electronics	Schmid & Partner Engineering AG	DAE4	1369	2024/05/15	12
142247	SAR robot	Schmid & Partner Engineering AG	TX60 Lspeag	F10/5E3LA1/A /01	2024/04/30	12
142056	2mm Oval Flat Phantom	Schmid & Partner Engineering AG	QDOVA001BB	1045	2024/05/31	12
251513	Head Simulating Liquid	Schmid & Partner Engineering AG	HBBL4-250V3	SL AAH 005 AD	-	-
142489	Device holder	Schmid & Partner Engineering AG	Mounting device for transmitter	-	2023/11/17	12
226051	Confined Loop Antenna	Schmid & Partner Engineering AG	CLA13	1025	2024/07/02	12
226215	Pre Amplifier	R&K	AA300-RS	22064001	2023/11/21	12
250149	RF Device, Passive, Coupler	WERLATONE INC.	C5091-10	134091	-	-
141843	Power sensor	Anritsu Corporation	MA24106A	1026164	2024/03/15	12
141844	Power sensor	Anritsu Corporation	MA24106A	1031504	2024/03/15	12
141890	Signal Generator	Keysight Technologies Inc	N5181A	MY47421098	2023/11/10	12
141170	Attenuator(40dB)	Weinschel Corp	MODEL 1	BF1940	2023/12/06	12
221492	Power sensor	Keysight Technologies Inc	E9300H E4419B	MY62080002	2024/08/20	12
141808	Dual Power Meter	ual Power Keysight Technologies eter Inc		MY45102060	2024/08/20	12
244706	Thermo- Hygrometer	A & D	AD-5648A	1003	2024/01/25	12
141182	Dielectric assessment software	Schmid & Partner Engineering AG	DAK	-	-	-
250148	Probe	Schmid & Partner Engineering AG	DAK-12	1197	2024/06/12	12
251453	Analyzer, Network	Rohde & Schwarz	ZNL14	200030	2024/07/12	12
141574	Digital thermometer	LKM electronic	DTM3000	-	2024/08/24	12
142865	Water, distilled	distilled KISHIDA CHEMICAL 020-85566 K70244M Co.,Ltd.		K70244M	-	-
141903	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46186390	2024/01/26	12

Section 15 Test instrument

*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chain of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Appendix Dielectric Property result

Date	Tem	Humidity	Frequency	Permittivity			Conductivity			Note
				Measured Target Delta			Measured	Target	Delta	
	[deg. C]	[RH %]	[MHz]	٤'	٤'	[%]	σ [S/m]	σ [S/m]	[%]	
2024/10/8	21.2	62	13.00	53.72	55.00	-2.32	0.725	0.750	-3.40	SPC
2024/10/8	21.2	62	13.56	53.72	55.00	-2.32	0.725	0.750	-3.39	

Appendix System performance check result

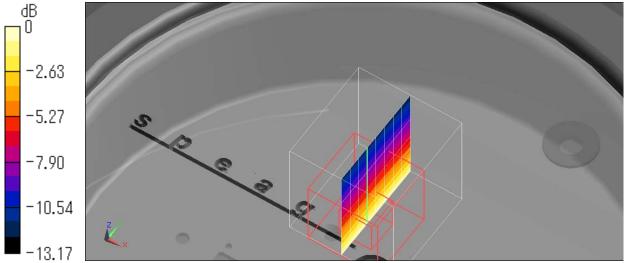
		Feed	Meas val	Meas val	Norm val	Norm val	Target val	Target val		
	Freq	pow er	1gSAR	10gSAR	1gSAR	10gSAR	1gSAR	10gSAR	1g	10g
Date	[MHz]	[mW]	[W/kg]	[W/kg]	[W/kg]	[W/kg]	[W/kg]	[W/kg]	dev	dev
2024/10/8	13	1000.00	0.497	0.309	0.497	0.309	0.520	0.324	-4.42%	-4.63%

Appendix System performance check Plot 13 MHz 2024-10-08 14:19 Communication System: UID 0, _CW (0); Communication System Band: FullSpan (0.0 - 6000.0 MHz); ; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 13 MHz; σ = 0.725 S/m; ϵ_r = 53.725; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration Probe: EX3DV4 - SN3917; ConvF(16.96, 16.96, 16.96) @ 13 MHz; Sensor-Surface: 1.4mm (Mechanical Surface Detection) Electronics: DAE4 Sn1369; Phantom: ELI v5.0 TP1045 (30deg probe tilt); Type: QDOVA001BB;Serial: TP:1045 Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

SPC/250mW/Zoom Scan (9x9x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 32.21 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 1.07 W/kg SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.309 W/kg Smallest distance from peaks to all points 3 dB below = 15.2 mm Ratio of SAR at M2 to SAR at M1 = 76.4%

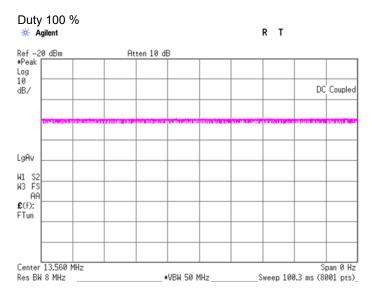
Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.746 W/kg

Liquid temp. is kept within the 2 degree.C. during the test. Date: 2024/10/08



0 dB = 0.746 W/kg = -1.27 dBW/kg

Appendix Duty measurement result



Appendix SAR measurement result

Test Position	Dist.	Mode	Freq.	Duty (%)	Duty Scaled	1g meas.	Reported	Plot No.
TestFosition	(mm)	Mode	(MHz)	Duty (78)	factor	SAR	SAR	FIOLINO.
Right	0	ТуреВ	13.56	100.0	1.00	0.016	0.016	
Front	0	ТуреВ	13.56	100.0	1.00	0.049	0.049	RFID
Back	0	ТуреВ	13.56	100.0	1.00	0.004	0.004	
Left	0	ТуреВ	13.56	100.0	1.00	0.007	0.007	
Тор	0	ТуреВ	13.56	100.0	1.00	0.001	0.001	
Bottom	0	ТуреВ	13.56	100.0	1.00	0.000	0.000	

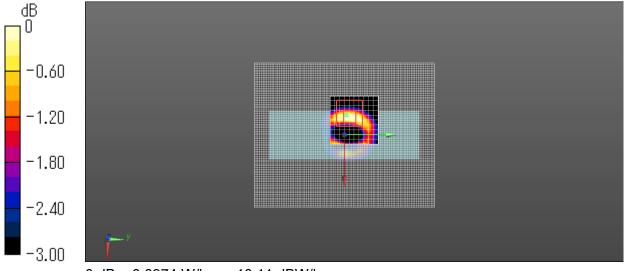
Appendix Measurement plot

Prot No. RFID Front 13 MHz 2024-10-08 15:56 Communication System: UID 0, _CW (0); Communication System Band: Full Span (0.0 - 6000.0 MHz); ; Duty Cycle: 1:1 Medium parameters used: f = 13.56 MHz; σ = 0.725 S/m; ε_r = 53.724; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration Probe: EX3DV4 - SN3917; ConvF(16.96, 16.96, 16.96) @ 13.56 MHz; Sensor-Surface: 1.4mm (Mechanical Surface Detection) Electronics: DAE4 Sn1369; Phantom: ELI v5.0 TP1045 (30deg probe tilt); Type: QDOVA001BB;Serial: TP:1045 Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

Front/Area Scan 2 (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.101 W/kg

Front/Zoom Scan (11x11x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 10.26 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.180 W/kg SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.021 W/kg Smallest distance from peaks to all points 3 dB below = 6.4 mm Ratio of SAR at M2 to SAR at M1 = 62.8% Maximum value of SAR (measured) = 0.0974 W/kg

Liquid temp. is kept within the 2 degree.C. during the test. Date: 2024/10/08



0 dB = 0.0974 W/kg = -10.11 dBW/kg

Appendix Probe calibration record EX3DV4 – SN:3917

	rich, Switzerland	HAC-MRA	S Schweizerischer Kalibrierdiens C Service suisse d'étalonnage Servizio svizzero di taratura S Swiss Calibration Service
credited by the Swiss Accre e Swiss Accreditation Se ultilateral Agreement for t		pries to the EA	Accreditation No.: SCS 0108
lent UL Japan H Ise, Japan	ead Office	Certificate No.	EX-3917_May24
CALIBRATION C	ERTIFICATE		
Object	EX3DV4 - SN:3	917	
Calibration procedure(s)	QA CAL-25.v8	, QA CAL-12.v10, QA CAL-14.v edure for dosimetric E-field prob	Charles I and the second second
Calibration date	May 21, 2024		
		atory facility: environment temperature (22	\pm 3)°C and humidity < 70%.
Calibration Equipment used	(M&TE critical for calibration	1)	
Calibration Equipment used	(M&TE critical for calibration	n) Cal Date (Certificate No.)	Scheduled Calibration
Calibration Equipment used Primary Standards Power meter NRP2	(M&TE critical for calibration	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037)	Scheduled Calibration Mar-25
Calibration Equipment used Primary Standards Power meter NRP2 Power sensor NRP-Z91	(M&TE critical for calibration	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036)	Scheduled Calibration Mar-25 Mar-25
Calibration Equipment used Primary Standards Power meter NRP2 Power sensor NRP-Z91 DCP DAK-3.5 (weighted)	(M&TE critical for calibration ID SN: 104778 SN: 103244	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037)	Scheduled Calibration Mar-25 Mar-25 3) Oct-24
Calibration Equipment used Primary Standards Power meter NRP2 Power sensor NRP-291 DCP DAK-3.5 (weighted) DCP DAK-12 Reference 20 dB Attenuator	(M&TE critical for calibration ID SN: 104778 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x)	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 05-Oct-23 (OCP-DAK3-5-1249_Oct2 05-Oct-23 (OCP-DAK12-1016_Oct22 26-Mar-24 (No. 217-04046)	Scheduled Calibration Mar-25 Mar-25 3) Oct-24 3) Oct-24 Mar-25
Calibration Equipment used Primary Standards Power meter NRP2 Power sensor NRP-291 DCP DAK-3.5 (weighted) DCP DAK-12 Heference 20 dB Attenuator DAE4	(M&TE critical for calibration ID SN: 104778 SN: 103244 SN: 1249 SN: 1016 SN: 1016 SN: C2552 (20x) SN: 660	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 05-0ct-23 (OCP-DAK3.5-1249_Oct2 05-Oct-23 (OCP-DAK12-1016_Oct2 26-Mar-24 (No. 217-04046) 23-Feb-24 (No. DAE4-660_Feb24)	Scheduled Calibration Mar-25 Mar-25 3) Oct-24) Oct-24 Mar-25 Feb-25
Calibration Equipment used Primary Standards 'ower meter NRP2 'ower sensor NRP-Z91 OCP DAK-3.5 (weighted) OCP DAK-12 teference 20 dB Attenuator DAE4	(M&TE critical for calibration ID SN: 104778 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x)	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 05-Oct-23 (OCP-DAK3-5-1249_Oct2 05-Oct-23 (OCP-DAK12-1016_Oct22 26-Mar-24 (No. 217-04046)	Scheduled Calibration Mar-25 Mar-25 3) Oct-24 3) Oct-24 Mar-25
Calibration Equipment used Primary Standards Power meter NRP2 Power sensor NRP-291 DCP DAK-3.5 (weighted) DCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe EX3DV4 Secondary Standards	(M&TE critical for calibration ID SN: 104778 SN: 103244 SN: 1249 SN: 1016 SN: 1016 SN: C2552 (20x) SN: 660	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 05-0ct-23 (OCP-DAK3.5-1249_Oct2 05-Oct-23 (OCP-DAK12-1016_Oct2 26-Mar-24 (No. 217-04046) 23-Feb-24 (No. DAE4-660_Feb24)	Scheduled Calibration Mar-25 Mar-25 3) Oct-24 Mar-25 Mar-25 Feb-25
Calibration Equipment used Primary Standards Power meter NRP2 Power sensor NRP-291 DCP DAK-3.5 (weighted) DCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe EX3DV4 Secondary Standards Power meter E4419B	(M&TE critical for calibration ID SN: 104778 SN: 103244 SN: 103244 SN: 1249 SN: 1016 SN: C2552 (20x) SN: 660 SN: 7349 ID SN: GB41293874	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 05-Oct-23 (OCP-DAK3.5-1249_Oct2 05-Oct-23 (OCP-DAK12-1016_Oct2) 26-Mar-24 (No. 217-04046) 23-Feb-24 (No. DAE4-660_Feb24) 03-Nov-23 (No. EX3-7349_Nov23) Check Date (in house) 06-Apr-16 (in house check Jun-22)	Scheduled Calibration Mar-25 Mar-25 3) Oct-24 Mar-25 Feb-25 Feb-25 Nov-24 Scheduled Check In house check: Jun-24
Calibration Equipment used Primary Standards Power meter NRP2 Power sensor NRP-Z91 DCP DAK-3.5 (weighted) DCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe EX3DV4 Becondary Standards Power meter E4419B Power sensor E4412A	(M&TE critical for calibration SN: 104778 SN: 103244 SN: 103244 SN: 1016 SN: 02552 (20x) SN: 660 SN: 7349 ID SN: GB41293874 SN: MY41498087	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 05-Oct-23 (OCP-DAK3.5-1249_Oct2 05-Oct-23 (OCP-DAK12-1016_Oct22 26-Mar-24 (No. 217-04046) 23-Feb-24 (No. DAE4-660_Feb24) 03-Nov-23 (No. EX3-7349_Nov23) Check Date (in house) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22)	Scheduled Calibration Mar-25 Mar-25 3) Oct-24 3) Oct-24 Mar-25 Feb-25 Nov-24 Scheduled Check In house check: Jun-24 In house check: Jun-24
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Calibration Equipment used Primary Standards Power meter NRP2 Power sensor NRP-291 DCP DAK-3.5 (weighted) DCP DAK-3.5 (weighted) DCP DAK-3.2 (we	(M&TE critical for calibration SN: 104778 SN: 103244 SN: 103244 SN: 1016 SN: 02552 (20x) SN: 660 SN: 7349 ID SN: GB41293874 SN: MY41498087	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 05-Oct-23 (OCP-DAK3.5-1249_Oct2 05-Oct-23 (OCP-DAK12-1016_Oct22 26-Mar-24 (No. 217-04046) 23-Feb-24 (No. DAE4-660_Feb24) 03-Nov-23 (No. EX3-7349_Nov23) Check Date (in house) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22)	Scheduled Calibration Mar-25 Mar-25 3) Oct-24 3) Oct-24 Mar-25 Feb-25 Nov-24 Scheduled Check In house check: Jun-24 In house check: Jun-24 In house check: Jun-24 In house check: Jun-24
Calibration Equipment used Primary Standards Power meter NRP2 Power sensor NRP-291 DCP DAK-3.5 (weighted) DCP DAK-3.5 (weighted) DCP DAK-3.2 (weighted) COP DAK-3.2 (weighted) DCP DAK-3.2 (we	(M&TE critical for calibration ID SN: 104778 SN: 103244 SN: 1249 SN: 1249 SN: 1016 SN: C2552 (20x) SN: 660 SN: 7349 ID SN: GB41293874 SN: MY4148087 SN: W14148087 SN: W14148087 SN: US3642L01700	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 05-Oct-23 (OCP-DAK3.5-1249_Oct2 05-Oct-23 (OCP-DAK12-1016_Oct2 26-Mar-24 (No. DAE4-660_Feb24) 03-Nov-23 (No. EX3-7349_Nov23) Check Date (in house) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 04-Aug-99 (in house check Jun-22)	Scheduled Calibration Mar-25 Mar-25 3) Oct-24 Mar-25 Feb-25 Feb-25 Nov-24 Scheduled Check In house check: Jun-24 In house check: Jun-24 In house check: Jun-24
Calibration Equipment used Primary Standards Power meter NRP2 Power sensor NRP-Z91 DCP DAK-3.5 (weighted) DCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe EX3DV4 Secondary Standards	(M&TE critical for calibration ID SN: 104778 SN: 103244 SN: 1249 SN: 1249 SN: 1016 SN: C2552 (20x) SN: 660 SN: 7349 ID SN: GB41293874 SN: MY4148087 SN: W14148087 SN: W14148087 SN: US3642L01700	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 05-Oct-23 (OCP-DAK3.5-1249_Oct2 05-Oct-23 (OCP-DAK12-1016_Oct22 26-Mar-24 (No. 217-04046) 23-Feb-24 (No. DAK12-1016_Oct22) 26-Mar-24 (No. 24.660_Feb24) 03-Nov-23 (No. EX3-7349_Nov23) Check Date (in house) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 04-Aug-99 (in house check Jun-22) 31-Mar-14 (in house check Oct-22)	Scheduled Calibration Mar-25 Mar-25 3) Oct-24 3) Oct-24 Mar-25 Feb-25 Nov-24 Scheduled Check In house check: Jun-24 In house check: Jun-24
Calibration Equipment used Primary Standards Power meter NRP2 Power sensor NRP-291 DCP DAK-3.5 (weighted) DCP DAK-12 Heference 20 dB Attenuator DAE4 Reference Probe EX3DV4 Secondary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A Power sensor E4412A Ref generator HP 8648C Hetwork Analyzer E8358A	(M&TE critical for calibration ID SN: 104778 SN: 103244 SN: 103244 SN: 1016 SN: C2552 (20x) SN: 660 SN: 7349 ID SN: GB41293874 SN: MY41498087 SN: 000110210 SN: US3642U01700 SN: US41080477 Name	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 05-Oct-23 (OCP-DAK3.5-1249_Oct2 05-Oct-23 (OCP-DAK12-1016_Oct22 26-Mar-24 (No. 217-04046) 23-Feb-24 (No. 217-04046) 23-Feb-24 (No. 217-04046) 23-Feb-24 (No. 217-04046) 03-Nov-23 (No. EX3-7349_Nov23) Check Date (in house) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 04-Aug-99 (in house check Jun-22) 31-Mar-14 (in house check Oct-22) Function	Scheduled Calibration Mar-25 Mar-25 3) Oct-24 3) Oct-24 Mar-25 Feb-25 Nov-24 Scheduled Check In house check: Jun-24 In house check: Jun-24 Signature
Calibration Equipment used Primary Standards Power meter NRP2 Power sensor NRP-291 DCP DAK-3.5 (weighted) DCP DAK-12 Heference 20 dB Attenuator DAE4 Reference Probe EX3DV4 Reference P	(M&TE critical for calibration SN: 104778 SN: 103244 SN: 103244 SN: 1016 SN: C22552 (20x) SN: 660 SN: 7349 ID SN: GB41293874 SN: MY41498087 SN: 000110210 SN: US3642L01700 SN: US3642L01700	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 05-Oct-23 (OCP-DAK3.5-1249_Oct2 05-Oct-23 (OCP-DAK12-1016_Oct22 26-Mar-24 (No. 217-04046) 23-Feb-24 (No. DAK12-1016_Oct22) 26-Mar-24 (No. 24.660_Feb24) 03-Nov-23 (No. EX3-7349_Nov23) Check Date (in house) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 04-Aug-99 (in house check Jun-22) 31-Mar-14 (in house check Oct-22)	Scheduled Calibration Mar-25 Mar-25 3) Oct-24 3) Oct-24 Mar-25 Feb-25 Nov-24 Scheduled Check In house check: Jun-24 In house check: Jun-24 Signature
Calibration Equipment used Primary Standards Power meter NRP2 Power sensor NRP-291 DCP DAK-3.5 (weighted) DCP DAK-3.5 (weighted) DCP DAK-3.2 (we	(M&TE critical for calibration ID SN: 104778 SN: 103244 SN: 103244 SN: 1016 SN: C2552 (20x) SN: 660 SN: 7349 ID SN: GB41293874 SN: MY41498087 SN: 000110210 SN: US3642U01700 SN: US41080477 Name	n) Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 05-Oct-23 (OCP-DAK3.5-1249_Oct2 05-Oct-23 (OCP-DAK12-1016_Oct22 26-Mar-24 (No. 217-04046) 23-Feb-24 (No. 217-04046) 23-Feb-24 (No. 217-04046) 23-Feb-24 (No. 217-04046) 03-Nov-23 (No. EX3-7349_Nov23) Check Date (in house) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 04-Aug-99 (in house check Jun-22) 31-Mar-14 (in house check Oct-22) Function	Scheduled Calibration Mar-25 Mar-25 3) Oct-24 3) Oct-24 Mar-25 Feb-25 Nov-24 Scheduled Check In house check: Jun-24 In house check: Jun-24 Signature

Calibration Laboratory of Schmid & Partner 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





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 Swiss Calibration Service

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Accreditation No.: SCS 0108

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 ∂ = 0 (f ≤ 900MHz in TEM-cell; f > 1800MHz: 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; VRx,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 ≤ 800MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty 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).

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Parameters of Probe: EX3DV4 - SN:3917

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm $(\mu V/(V/m)^2)^A$	0.53	0.42	0.45	±10.1%
DCP (mV) B	102.6	104.5	104.8	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B ďB√µV	C	D dB	VR ₽1V	Max dev.	Max Unc ^E k = 2
0	CW	x	0.00	0.00	1.00	0.00	120.6	±1.1%	±4.7%
		Y	0.00	0.00	1.00	1	134.8	1	
	a	Z	0.00	0.00	1.00	1	134.4	1	
10352	Pulse Waveform (200Hz, 10%)	X	20.00	94.86	23.79	10.00	60.0	±2.5%	±9.6%
		Y	20.00	93.34	22.51	1	60.0	1	
	****	Z	20.00	92.57	22.42	1	60.0	1	
10353	Pulse Waveform (200Hz, 20%)	X	20.00	95.33	22.86	6.99	80.0	±1.2%	±9.6%
		Y	20.00	94.64	22.15	1	80.0	1	Į
		Z	20.00	92.64	21.20	1	80.0	1	
10354	Pulse Waveform (200Hz, 40%)	X	20.00	97.94	22.67	3.98	95.0	±1.4%	±9.6%
		Y	20.00	99.07	23.03	1	95.0	1	
		Z	20.00	94.25	20.51	1	95.0	1	
10355	Pulse Waveform (200Hz, 60%)	X	20.00	102.35	23.40	2.22	120.0	±1.4%	±9.6%
		ĮΥ	20.00	106.26	25.16	1	120.0	1	
		Z	20.00	97.47	20.76	1	120.0	1	
10387	QPSK Waveform, 1 MHz	X	1.65	64.94	14.44	1.00	150.0	±1.8%	±9.6%
		Y.	1.73	66.41	15.21	1	150.0		
		Z	1.67	65.17	14.53		150.0		
10388	QPSK Waveform, 10 MHz	X	2.14	66.90	15.09	0.00	150.0	+1.0%	±9.6%
		Ϋ́.	2.28	68.30	15.88		150.0		
		Z	2.19	67.25	15.18	1	150.0		
10396	64-QAM Waveform, 100 kHz	X	2.90	69.43	18.15	3.01	150.0	±0.7%	±9.6%
		Y	2.96	71.09	18.95		150.0		
		Z	3.09	70.61	18.49	1	150.0	1	
10399	64-QAM Waveform, 40 MHz	X	3.48	66.73	15.49	0.00	150.0	±0.8%	1:9.6%
		Y	3.41	66.72	15.54	1	150.0		
		Z	3.52	66.98	15.56	1	150.0	1	
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.90	65.50	15.38	0.00	150.0	±1.8%	±9.6%
		Y	4.75	65.32	15.29	1	150.0	1	
		Z	4.74	65.00	15.08	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 tactor 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 attest the E²-field uncertainty inside TS£ (see Pages 5 and 6).
 ⁹ Linearization parameter uncertainty for maximum specified field strength.
 ^E Uncertainty is determined using the max. deviation from thear response applying rectangular distribution and is expressed for the square of the field value.

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Parameters of Probe: EX3DV4 - SN:3917

Sensor Model Parameters

	C1	C2	a	11	T2	Т3	T4	T5	75
	fF	ff -	V-1	ភាsV ^{−2}	msV ^{−1}	ms	V-2	V-1	5
x	50.0	369.28	34.80	20.50	0.69	5.08	0.98	0.33	1.01
y y	45.7	330.57	33.61	19.88	0.21	5.09	1.51	0.13	1.01
z	51.2	373.97	34.12	17.78	0.78	5.04	1.37	0.27	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	67.4°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	mm 9
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 กาก
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 m.m.
Recommended Measurement Distance from Surface	1.4 mm

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

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Parameters of Probe: EX3DV4 - SN:3917

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	CanvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
13	55.0	0.75	16.96	16.96	16.96	0.00	1.25	±13.3%
300	45.3	0.87	11.60	11.60	11.60	0.09	1.00	±13.3%
750	41.9	0.69	9.27	9.78	9.35	0.39	1.27	±11.0%
835	41.5	0.90	8.74	9.62	9.03	0.39	1.27	±11.0%
1450	40.5	1.20	7.79	8.29	8.10	0.36	1.27	±11.0%
1640	40.2	1.31	7.72	8.06	8.05	0.32	1.27	±11.0%
1750	40.1	1.37	7.61	7.99	7.93	0.27	1.27	±11.0%
1900	40.0	1.40	7.48	7.93	7.81	0.28	1.27	±11.0%
2300	39.5	1.67	7.29	7.74	7.60	0.31	1.27	±11.0%
2450	39.2	1.80	7.15	7.59	7.46	0.30	1.27	±11.0%
2600	39.0	1.96	7.02	7.46	7.34	0.30	1.27	:±11.0%
3500	37.9	2.91	6.35	6.82	6.67	0.35	1.27	±13.1%
3700	37.7	3.12	6.23	6.68	6.54	0.37	1.27	±13.1%
3900	37.5	3.32	6.17	6.62	6.50	0.36	1.27	±13.1%
4600	36.7	4.04	5.91	6.36	6.36	0.36	1.29	±13.1%
5250	35.9	4.71	5.10	5.51	5.34	0.38	1.53	±13.1%
5600	35.5	5.07	4.46	4.81	4.70	0.37	1.77	±13.1%
5800	35.3	5.27	4.31	4.66	4.61	0.37	1.87	±13.1%
5850	35.2	5.32	4.20	4.59	4.63	0.35	1.83	±13.1%

C Fraquency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), olso it is reatricied to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncortainty 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 15 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±100 MHz.
^C The probes are calibrated using Issue Simulating facility CFU; the leviate for *x* and *r* by less than ±5% from the target values (typically batter than ±3%) and are valid for TSL with deviations of up to ±10% if SAR correction is applied.
^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and blow ±2% for trequencies below a 3–6 GHz at any distance larger than half the probe up diameter from the target frequencies below 3 GHz and blow ±2% for trequencies below 3 –6 GHz.

boundary.

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Parameters of Probe: EX3DV4 - SN:3917

Calibration Parameter Determined in Head Tissue Simulating Media

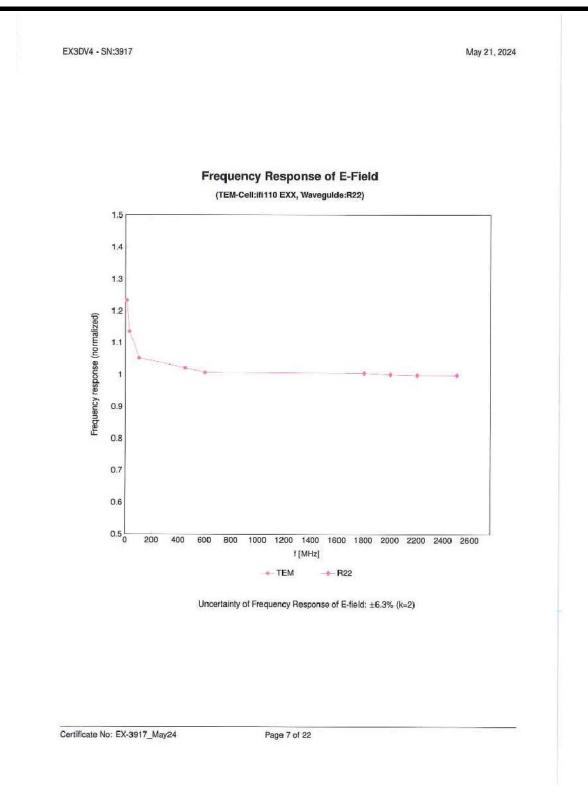
f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
6500	34.5	6.07	5.21	5.46	5.34	0.20	1.27	±18.6%

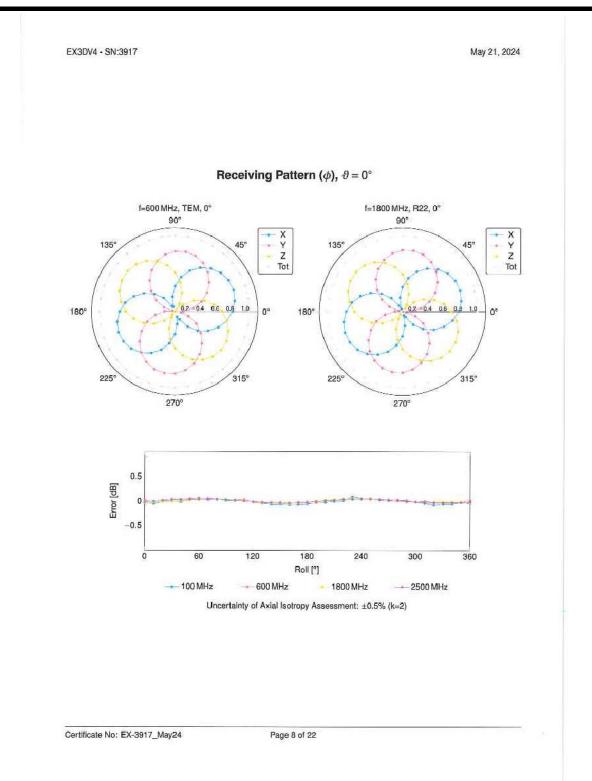
C Frequency validity at 6.5 GHz is ~600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.
⁷ The probes are calibrated using lissue simulating liguids (TSL) that deviate for *z* and *o* by lass than ±10% from the target values (typically better than ±6%) and are valid for TSL with deviations of up to ±10%.
⁶ 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; blow ±2% for frequencies between 6–10 GHz at any distance the termined during the termined during the second termined during the termined during termined during the second termined 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; blow ±2% for frequencies between 6–10 GHz at any distance termined during termined termined during t

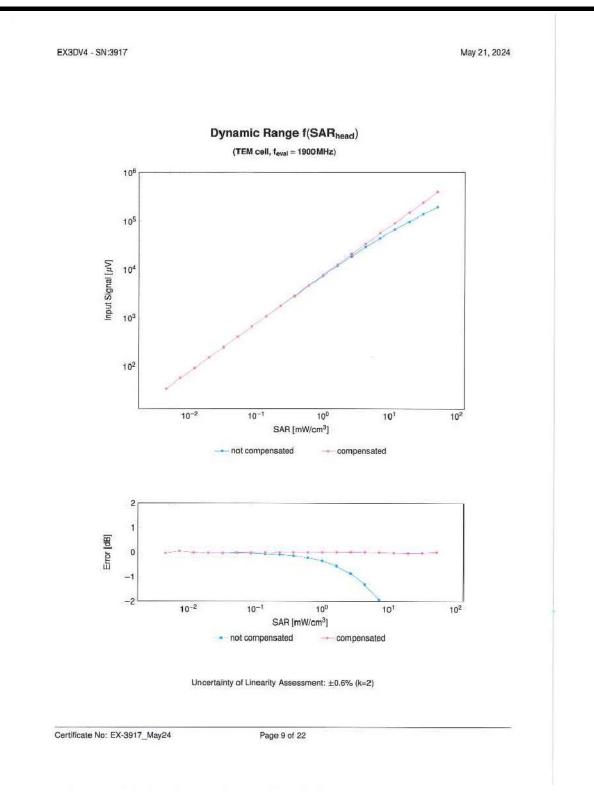
larger than half the probe tip diameter from the boundary.

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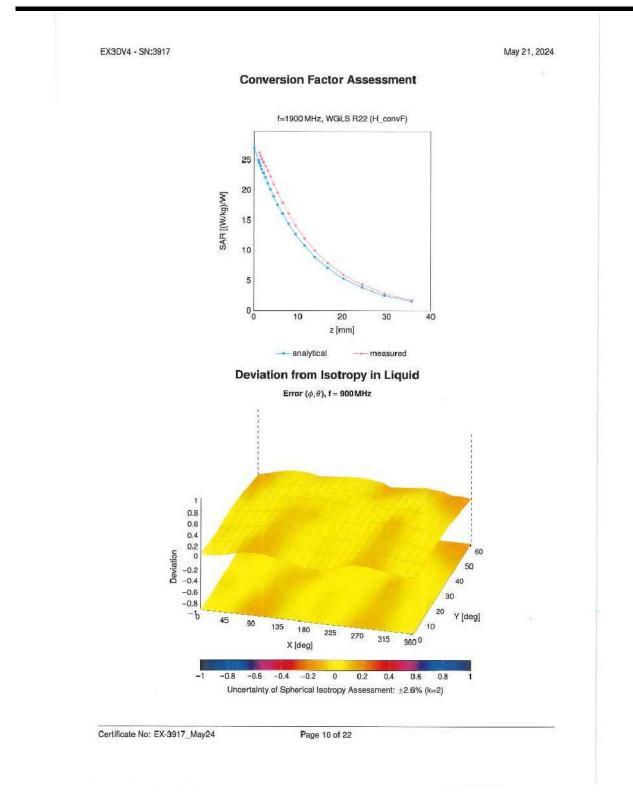
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Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 1
0		CW	CW	0.00	±4.7
söata	CAB	SAR Validation (Square, 100 ms, 10 ms)	Tost	10.00	±9.6
10011	CAG	UMTS-FDD (WCDMA)	WGDMA	2.91	±9.6
10012	CAB	IEEE 802.13b WiFi 2.4 GHz (DSSS, 1 Mbps)	WE AN	1.87	±9.8
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6Mbps)	WEAN	9.46	19.6
0021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10023	DAC	GPDS EDD (TENIA CMSK TN III)	GSM	9.57	±9.6
0020	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	±9.6
10025	DAC	EDGE-FDD (TOMA, 6PSK, TN 0)	GSM	12.62	±9.6
10025	DAC	EDGE-FDD (TOMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
10026	DAC	GPRS-FDD (TOMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6
			GSM		
10028	DAC	GPRS-FDD (TOMA, GMSK, TN 0-1-2-3)		3.55	19.6
10029	DAC	EDGE-FDD (TOMA, 8PSK, TN 0-1-2)	GSM		±9.6
0 0 3 0	ĊAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetaoth	5.30	±9.6
0031	GAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	19.6
6032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6
0.033	CAA	IEEE 802.15.1 Bluetooth (PV4-DQPSK, DH1)	Bluetoolin	7.74	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DOPSK, DH9)	Bluetaoth	4.53	<u>1</u> 9.6
0035	CAA	IEEE B02.15.1 Bluetooth (Pt/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
0036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluelooth	8.01	±9.6
0037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetaoth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
\$0.039	CAB	CDMA2000 (1xRTT, RC1)	CDM4A2000	4.57	±9.6
0042	CAB	IS-54 / IS-136 FOD (TDMA/FDM, PI/4-DQPSK, Heilrate)	AMPS	7.78	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	19.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.60	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10056	CAA	UMTS-TDD (TD-SGBMA, 1.28 Mops)	TD-SCEMA	11.01	:19.6
10.058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	19.6
10059	CAB	IEEE 802.1 tb WiFI 2.4 GHz (DSSS, 2 Mbps)	WEAN	2.12	±9.6
	CAB		WEAN	2.83	
10060	CAB	IEEE 802.11b WiFI 2.4 GHz (DSSS, 5.5 Mbps)		2.83	±9.6
10061		IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)			<u>19.6</u>
10062	CAE	IEEE 802.11a/h WiFi 5 GHz (QFDM, 6 Mbpa)	WEAN	8.68	19.6
10063	CAE	JEEE 802.11 a/h WIFI 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAE	IEEE 802.11 a/h WiFi 5 GHz (OFDM, 12 Mbps)	WEAN	9.09	:†9.6
10065	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WEAN	9.00	<u>1</u> 9.6
10.066	CAE	IEEE 802.11a/h WiFi 5 GHz (OFΩM, 24 Mbps)	WE.AN	9.58	±9.6
10067	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps)	WI.AN	10.12	±9.6
10068	CAE	IEEE 802.11 a/h WIFI 5 GHz (OFUM, 48 Mbps)	WEAN	10.24	±9.6
10069	CAE	IEEE 802.11 a/h WiFi 5 GHz (OFDM, 54 Mbps)	WEAN	10.56	Tð:6
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSS5/OFDM, 9 Mbps)	WE,AN	9.83	±9.6
0072	CAB	IEEE 802.11g WFi 2.4 QHz (DSSS/OFDM, 12 Mbps)	WEAN	9.62	±9.6
10073	CAB	IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 18 Mbps)	WEAN	9.94	±9.6
0074	CAB	IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	19.6
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mops)	WEAN	10.77	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mapa)	WEAN!	10.94	±9.6
0077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	+9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2060	3.97	19.6
0082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	19.6
10082	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6 ±9.6
0000	CAC	UMTS-FDD (HSDPA)	WCOMA	3.98	±9.6
	GAC				
0098		UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	19.6
0099	DAG	EDGE-FOD (TDMA, 8PSK, TN 0-4)	GSM	9.55	19.6
0100	CAF	LTE-FD0 (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDO	5.67	±9.6
0101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	ITE-FDO	6.42	±9.6
0102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-OAM)	LTE-FDD	6.60	±9.6
0103	CAH	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TOD	9.29	<u>+</u> 9.6
10104	CAH	LTE-TOD (SG-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TOD	9.97	±9.6
10105	ÇAH	LTE-TED (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TOD	30.01	±9.6
0108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
		LTE-FOD (SC-FDMA, 100% RB, 10 MHz, 10-QAM)	LTE-FOD	6.43	±9.6
	CAH				
10109	CAH GAH	LTE-FOD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k :
10112	CAR	LTE-FDD (SC-FDMA, 100% 8B, 10 MHz, 64-QAM)	LTE-FDD	6.59	.±9.6
10113	CAH	LTE-FDD (SC-FDMA, 100% FB, SMHz, 64-QAM)	LTE-FOD	6.62	±9.6
10114	ÇAE	IEEE 802.11h (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAE	EEE 802.11n (HT Greenfield, 81 Mbps, 18-QAM)	WLAN	8.46	19.6
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, 81 Mbps, 18-QAM)	WLAN	8.59	÷9.6
10119	CAE	IEEE 802.11n (HT Mixed, 135Mbps, 64-QAM)	WLAN	8.13	19.6
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-FOD	6.49	±9.6
10141	CAF	LTE-FDD (SC-FDMA. 100% RB, 15MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, OPSK)	LTE-FDD	5.73	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	19.6
10144	CAF	LTE FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	ÇAĢ	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	 19.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	19.6
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, 84 QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TOD (SC-FDMA. 50% RB, 20 MHz, QPSK)	LTE-TOD	9.28	±9.6
10152	CAH	LTE-TOD (SC-FDMA, 50% FB, 20 MHz, 16-QAM)	LTE-TOD	9.92	+9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TOD	10.05	19.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, OPSK)	LTE-FDO	6.76	±9.0
10155	CAH	ETE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LITE-FOD	6.43	±9.0
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, SMHz, QPSK)	LTE-FDD	5.79	19.0 19.0
10157	CAH	LTE-FDD (SC-FDMA, 50% AB, SMHz, 16-QAM)	LITE-FDD	6.49	±9.
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 84-QAM)	LITE FOD	6.62	±9.0
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)	LTE-FDD	6.56	±9.0
10160	CAF	TE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	- <u>-</u> 9.1
10181	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9,0
10162	CAF	LTE-FDD (SC-FDMA, 50% AB, 15 MHz, 64-QAM)	LTE-FDD	6.56	±9.0
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	<u></u>
10168	CAG.	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9,
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20MHz, QPSK)	LTE-FDD	5.73	±9.1
10170	CAF	LTE-FOD (SG-FDMA, 1 RB, 20MHz, 16-QAM)	LTE-FDD	6.52	19.1
10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20MHz, 64-QAM)	LTE-FDD	6.49	±9.0
10172	CAH	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.4
0173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20MHz, 16-QAM)	LIE TOD	9.48	+9.
10174	GAH	LTE-TED (SC-FDMA, 1 RB, 2DMHz, 64-QAM)	LTE-TDD	10.25	T.8'
10175	GAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.
10177	CAJ	LTE-FDD (SC-FDMA, 1 98, 5MHz, QPSK)	LIEFDD	5.73	+9.
10178	CAH	LTE-FOD (SC-FDMA, 1 HB, 51/HZ, 18-DAM)	LTE-FDD	6.52	19.4
10179	CAH	LTE-FDD (SC-FDMA, 1 88, 10 MHz, 64-QAM)	ITE-FDD	6.50	±9.4
10180	CAH	LTE-FDD (SC-FBMA, 1 98, 5MHz, 64-QAM)	LTE-FDD	6.60	±9.
10161	CAF	LTE-FDD (SC-FOMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	19.
10182	CÁF	LTE-FDD (SC-FDMA, 1 HB, 15 MHz, 16-QAM)	LTE-FDD	6.52	T.0'
10189	AAE	LTE-FDD (SC-F0MA, 1 R8, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.4
10184	CAF	LTE-FDD (SC-FOMA, 1 FR, 3MHz, QPSK)	LTE-FDD	5.73	±9.
10185	CAF	ITE-FDD (SC-FDMA, 1 98, 3MHz, 16-QAM)	LTEFDD	6.51	19.
10166	AAF	LTE-FDD (SC-FDMA, 1 RB, 31/Hz, 64-DAM)	LTE-FDD	6.50	19.4
10187	CAG	LTE-FDD (SC-F0MA, 1 R9, 1.4 MHz, QPSK)	LTE-FDD	5.79	±9.4
10188	CAG	LTE-FDD (SC-FOMA, 1 RB, 1.4 MHz, 36-QAM)	LTE-FDD	6.52	±9.
10189	AAG	ITE-FDD (SC-FDMA, 1 8B, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.1
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5Mbps, BPSK)	WLAN	8.09	±9.4
10194	CAE	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-OAM)	WLAN	8.12	±9.4
10195	CAE	IEEE 802.11n (HT Greenfield, 85 Mbps, 64 QAM)	WLAN	8.21	±9.4
10196	ÇAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.4
10197	CAE	IEEE 802.11n (HT Mixed, 39 Mbps, 36-QAM)	WLAN	8.13	±9.6
10198	CAE	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
	CAE	EEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.0
	CAE	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	6.13	±9.0
10219	ONE .	IEEE 802.111 (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.0
10220	CAE				
10220 10221	CAE :				
10220	CAE CAE CAE	IEEE 802.11n (HT Mixed, ISMbps, BPSK) IEEE 802.11n (HT Mixed, ISMbps, BPSK)	WLAN	8.0G 8.48	±9.0

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UID	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, 1.4MHz, 16-QAM)	LTE-TOD	9.49	:±9.6
10227	ÇAG	LTE-TED (SC-FOMA, 1 RB, 1.4MHz, 84 OAM)	LTE-TOD	10.26	±9.6
10228	CAC	LTE-TED (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LIFE TOD	9.22	±9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TOO	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 AB, 3 MHz, 64-OAM)	LTE-TOO	10.25	<u>1</u> 9.6
10291	CAE	LTE-TOD (SC-FOMA, 1 FIB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
10232	CAH	LTE-TDD (SC-FDMA, 1 R8, 5 MHz, 16-QAM)	LTE-TOD	9.48	±9.8
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-TOD	10.25	<u>+</u> 9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	ITE-TOD	9.21	<u>1</u> 9.6
10295	GAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 18-OAM)	LTE TOD	9.48	±9.6
10236	CAH	LTE-TDD (\$C-FDMA, 7 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	ITE-TOD	9.21	<u>×</u> 9.6
10238	GAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 18 QAM)	ETE/TOD	9.48	±9.6
10239	CAG	LTE-TOD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10240	CAG	LTE-TOD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	<u>4</u> 9.6
10241	CAG	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 16-OAM)	LTE-TDD	9.82	±9.6
10242	CAC	LFE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.66	±9.6
10243	GAC	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	÷9.6
10244	CAE	LTE-TOD (SC-FDMA, 50% RB, 3MHz, 16-QAM)	LITE-TOD	10.06	±9.6
10245	CAE	LTE-TOD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10246	CAE	LITE-TOD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	÷9.6
10247	CAH	LTE-TOD (SG-FDMA, 50% RB, 5MHz, 16-QAM)	LTE-TDD	9.91	<u>+</u> 9.6
10248	CAH	LTE-TOD (SC-FDMA, 50% RB, 5MHz, 64-QAM)	LTE-TDD	10.09	±9.6
10249	CAH	LTE-TOD (SC-FDMA, 50% RB, 5MHz, QPSK)	LTE-TOD	9.29	÷9.6
10250	CAH	LTE-TOD (SC-FDMA, 50% RB, 10 MHz, 16-DAM)	ETE-TDD	9.81	<u>÷</u> 9.6
10251	CAH	LTE-TOD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	ETE-TDD	10.17	±9.6
10252	CAH	LTE-TED (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	÷9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 18-OAM)	ETE-TDD	9.90	<u>k</u> 9.6
10254	CAG	LTE-TOD (SC-FDMA, 50% RB, 15 MHz, 64-OAM)	LTE-TDD	10.14	£9.6
10255	CAG	LTE-TED (SC-FDMA, 50% RB, 15 MHz, QPSK)	LITE-TDD	9.20	±9.6
10256	ÇAÇ	LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, 16-QAM)	LTE-TDD	9.96	÷9.6
f0:257	CAC	I.TE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 64-OAM)	LTE-TOD	10.08	<u>1</u> 9.6
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% FIB, 3 MHz, 16-QAM)	LTE-TOD	9.98	±9.8
10260	CAE	LTE-TDD (SC-FDMA, 100% R8, 3MHz, 64-QAM)	LTE-TOD	9.97	±9.6
10261	CAE	I.TE-TDD (SC-FOMA, 100% AB, 3MHz, QPSK)	LTE-TOD	9.24	19.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 18-QAM)	LTE-TOD	9.89	±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% FIB, 5 MHz, 64-QAM)	UTE-TOD	10.16	±9.6
10264	GAH	LTE-TDD (SC-FDMA, 100% RB, SMHz, QPSK)	LTE-TDD	9.23	±9.6
10265	ÇAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TD0	9.92	Tð:9
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TED	10.07	±9.6
10267	CAH	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TOD	9.30	±9.6
10268	CAG	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TOD	10.06	19.6
10269	ÇAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6
10270	CAG	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.6
10274	CAC	UMTS-FDD (HSUPA, Sublest 5, 3GPP Ret8.10)	WCDMA	4.87	±9.6
10275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	<u>1</u> 9.6
10277	CAA	PHS (QPSK)	PHS	11.81	<u>.</u> 49.6
10278	CAA	PHS (QPSK, BW 684MHz, Rolloff 0.5)	PHS	\$1.81	±9.6
10279	CAA	PHS (QPSK, BW 884MHz, Solloff 0.38)	PHS	12.18	±9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	<u>1</u> 9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rele	CDMA2000	3.46	_19.6
10292	AAB	CDMA2000, RC9, SO32, Full Rate	CDMA2000	3.39	±9.6
10293	AAB	CDMA2000, RC3, SO3, Full Pate	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	<u><</u> 9.6
10298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3MHz, QPSK)	LTE-FDD	5.72	±9.6
10299	AAE	LTE-FDD (SC-FOMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	AAE	1.TE-FDD (SC-FDMA, 50% RB, 3 MHz, 54-QAM)	LTE-FDD	6.60	±9.6
10301	AAA	IEEE 802.15g WIMAX (29:18, 5ms, 10 MHz, QPSK, PUSC)	WAX	12.03	÷9.6
10302	AAA	IEEE 802.16# WIMAX (29:18, 5ms, 10 MHz, QPSK, PUSC, 3 CTRI, symbols)	WiMAX	12.57	<u>÷</u> 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, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	±9.6
10305	AAA	IEEE 802.16: WMAX (31:15, 10 Ins, 10 MHz, 64QAM, PUSC, 15 symbols)	WiMAX	15.24	±9.6
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10307	AAA	EEE 602.16e WiMAX (29:18, 10 ma, 10 MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	_19.6
10308	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WIMAX	14.46	±9.6
10309	AAA	IEEE 802.166 WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WIMAX	14.58	±9.6
10910	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, AMG 2x3, 18 symbols)	WIMAX	14.57	±9.6
103f1	AAE	LTE-FDD (SC-FDMA, 100% RB, 15MHz, QPSK)	LTE-FDD	6.06	<u>±</u> 9.6
10313	AAA	IDEN 1:3	IDEN	\$0.51	±9.6
10914	AAA	IDEN 1:6	IDEN	\$3.4B	:±9.6
10915	AAB	IEEE 802.115 WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10318	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	Pulae Waveform (200Hz, 80%)	Generic	0.97	19.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10388	AAA	QPSK Wavetorm, 10 MHz	Generic	5.22	
	AAA		Generic	6.27	±9.6
10396		64-OAM Waveform, 100 kHz			<u>1</u> 9.6
10399	AAA	64-QAM Waveform, 40MHz	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	EEE 602.1 fac WiFI (40 MHz, 64-OAM, 99pc duty cycle)	WLAN	8.60	±9.6
10402	AAF	EEE 802.11ac WiFI (80 MHz, 64-OAM, 99pc duty cycle)	WLAN	8.53	19.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
10404	AAB	CDMA2000 (fxEV-DO, Rev. A)	CDMA2000	3.77	+9.6
10406	AAÐ	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	19.6
10410	AAH	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,9,4,7,8,9, Subframe Conf=4)	LTE-TOD	7.82	±9.6
10414	AAA	WLAN CODF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mops, 99pc duty cycle)	WLAN	1.54	<u>1</u> 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	(EEE 802.11 a/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, 1.ong 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	19.6
10422	AAD	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.52	+9.6
10423	AAD	IEEE 802.11n (HY Greenfield, 43.3Mbps, 16-QAM)	WLAN	8.47	±9.8
10424	AAD	EEE 802.11n (HT Greenfield, 72.2Mbps, 64-QAM)	WLAN	8.40	19.6
10425	AAD	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
10426	AAD	IEEE 802.11n (HT Greenfield, 90 Mbps, 18-OAM)	WLAN	8.45	±9.6
10427	AAD	IEEE 802.11n (HT Groonfield, 150 Mbps, 64-QAM)	WLAN	8.41	
10430	AAE	LTE-FDD (OFDMA, 5MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
10431	AAE				
		LTE-FOD (OFDMA, 10MHz, E-TM 3.1)	LTE-FDD	8.38	<u>+</u> 9.6
10492	AAD	LTE-FDD (OFDMA, 15MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10493	AAD	I.TE-FDD (OFDMA, 20MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10494	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10435	AAG	LTE-TED (SC-FEMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FOD	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FOO	7.53	+9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	<u>+</u> 9.6
10450	AAO	LTE-FDD (OFDMA, 20 MHz, E-TM \$.1, Clipping 44%)	LTE-FOD	7.48	±9.6
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10459	AAF;	Validation (Square, 10 ms, 1 ms)	Test	10.00	+9.6
0456	AAD	IEEE 802.11ac WIFi (160 MHz, 64 QAM, 99pc duty cycle)	WLAN	8.63	19.6
0457	AAB	UMTS-FDD (DC-HSDPA)	WCOMA	6.62	19.6
0458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
0459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA	2,39	19.6
0451	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, OPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	19.6
0462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sobirame=2,3,4,7,8,9)	LTE-TOD	8.30	19.6
10463	AAC	LTE-TOD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM, UI. Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	
0463	AAD	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD		±9.6
0465	AAD			7.82	±9.6
		LTE-TOD (SC-FDMA, 1 RB, 3 MHz, 16 OAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	1:9.6
0466	AAD	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9)	LTE TOD	8.57	19.6
0467	AAG	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe~2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
0468	AAG	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
0469	AAG	UTE-TOD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
0470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10MHz, OPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	<u>±</u> 9.6
0471	AAG	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subirame=2,3,4,7,8,9)	LTE-TDD	6.32	<u>4</u> 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)	LTE-TOD	8.57	<u>1</u> 9.6
10475	AAF	LTE-TDD (SC-FOMA, 1 RB, 15 MHz, QPSK, UL Subframe-2,3,4,7,8,9)	LITE-TOD	7.82	±9.6
10474	AAF	1.TE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-DAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	±9.6
10475	AAF	LTE-TDD (SC-FOMA, 1 RB, 15 MHz, 64-QAM, UL Subirame=2,3,4,7,8,9)	I.TE-TDD	8.57	±9.6
10477	AAG	LTE-TED (SC FOMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	6.32	<u>+</u> 9.6
10476	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-0AM, UL Subirame=2,3,4,7,8,9)	נדב-דסט	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% R8, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	I.TE-TDD	7.74	±9.6
10480	AAG	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subirame=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, UI. Subframe=2,3,4,7,8,9)	נדב-דטט	8.45	±9.6
10462	AAD	LTE-TDD (SC-FOMA, 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% R8, 3 MHz, 16-QAM, UE Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	±9.6
10484	AAD	LTE-TDD (SC-FDMA, 50% RB, 3MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10485	AAG	LTE-TDD (SC-FUMA, 50% RB, 5 MHz, QPSK, UI. Subframe=2,9,4,7,8,9)	LTE-TOU	7.59	±9.6
10486	AAG	1,TE-TDD (SC-FOMA, 50% R8, 5 MHz, 18-OAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.38	t:9.δ
10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	8.60	±9.6
10488	AAG	LTE-TOD (SC-FDMA, 50% #8, 10 MHz, QPSK, UL Subirame=2,3,4,7,8,9)	LTE-1100	7.70	±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UI. Subframe-2,3,4,7,8,9)	LTE-TOD	8.31	±9.8
10490	AAG	1TE-TDD (\$C-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subirame=2,3,4,7,8,9)	LTE-TOD	B.54	<u>±</u> 9.6
10491	AAF	1TE-TDD (SC-FDMA, 50% R8, 15 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TD0	7.74	19.6
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.41	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% AB, 15 MHz, 64-QAM, UI. Subframe=2,3,4,7,8,9)	LTE-TOD	8.55	±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RS, 20 MHz, OPSK, UL Subframe=2,3,4,7,8,9)	I,TE-TOD	7.74	<u>19.6</u>
10495	AAG	(TE-TDD (SC-FDMA, 50% HB, 20 MHz, 16-QAM, UL Subirame=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
10496	AAG	LTE TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UI. Subframe-2,3,4,7,8,9)	LTE-TOD	8.54	±9.6
10497	AAG	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	ETE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subikame=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 Subizame=2,3,4,7,8,9)	LTE TOD	8.68	±9.6
10500	AAD	LTE TDD (SC-FDMA, 100% RB, 3 MHz, OPSK, 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 Subtrame=2,9,4,7,8,9)	I,TE-TOD	8.44	19.6
10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 84-QAM, UL Subframe=2,3,4,7,8,5)	LTE TOD	8.52	±9.6
10503	AAG	I.TE-TOD (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-TOD	8.31	:±9.6
10505	AAG	LTE-TED (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8,54	±9.6
10506	AAG	LTE-TDD (SC-FOMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.74	±9.6
10507	AAQ	1.TE-TDD (SC-FOMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.36	+9.6
10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UI, Subtrame-2,3,4,7,8,9)	LTE-TOD	8.55	19.6
10509	AAF	LTE-TED (SC FOMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.49	±9.6
10510		LTE-TDD (SC-FOMA, 100% RB, 15MHz, 16-OAM, UL Subtrame=2,3,4,7,8,9)	LTE-TOD		±9.6
10511 10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOO LTE-TOO	8.51	+9.6 <u>+</u> 9.6
	AAG		1,75,700	8.42	±9.6
10513 10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20MHz, 16-0AM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20MHz, 64-0AM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.45	±9.6
10515	AAA	EEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 89pc duly cycle)	WEAN	1.58	. ±9.0 . ±9.8
10516	AAA	IEEE 802.110 WIFI 2.4 GHz (DSSS, 2 Mops, sept duty cycle)	WLAN	1.58	19.6
10517	AAA	IEEE 802.11b WiFI 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10518	AAD	HEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10518	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 5 Mibps, 5300 duty cycle)	WLAN	8.39	+9.6
10520	AAD	EEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	19.6
10520	AAD	IEEE 802. 11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	19.6 ±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, 30 Molss, 59c duty cycla)	WLAN	8.08	+9.6
10524	AAD	IEEE 802.11a/h WiFi 5 GHz (OFOM, 54 Mbps, 99pc duly cycle)	WLAN	8.27	19.6
10525	AAD	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.96	±9.6
10526	AAD	IEEE 802.11ac WiFr (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6
10527	AAD	IEEE 802.11ac WIFI (20MHz, MCS2, 99pc duty cycle)	WLAN	8.2t	±9.6
10528	AAD	IEEE 802.11ac WiF? (20MHz, MGS3, 99pc duty cycle)	WLAN	8.36	19.8
10529	AAD	IEEE 802.11ac WiFs (20MHz, MCS4, 99pc duty cycle)	WLAN	8.36	19.6
10531	AAD	IEEE 802.11ac WF3 (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.43	±9.6
10532	AAD	EEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.8
10593	AAD	IEEE 802.11ac WrFi (20MHz, MCS8, 99pc duty cycle)	WLAN	8.38	+9.6
10594	AAD	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycla)	WLAN	8.45	19.6
10595	AAD	EEE 802.11ac WFFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	19.6
10536	AAD	EEE 802.11 ac WFi (40 MHz, MCS2, 99pc duty cycle)	WEAN	8.32	±9.8
10537	AAD	IEEE 802.11ac WFI (40 MHz, MCS3, 99pc duty cycle)	WLAN	8,44	±9.6
			1.000	1 0.77	10.0
10537	AAD	IEEE 802.11 ac WiFi (40 MHz, MCS4, 99pc duly cycle)	WEAN	8.54	<u>1</u> 9.6

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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)	WI.AN	8.65	÷9.6
10543	AAD	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAD	IEEE 802.11ac W/Fi (60 MHz, MC50, 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 (80MHz, MCS2, 99pc duty cycle)	WEAN	8.35	<u>1</u> 9.6
10547	AAD	IEEE 802.11ac WiFi (60 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
10548	AAD	IEEE 802.1 fac WiFi (80MHz, MCS4, 99pc duty cycle)	WEAN	8.37	±9.6
10550	AAD	IEEE 802.11ac WiFi (800/Hz, MCS6, 99pc duty cycle)	WEAN	8.98	±9.6
10551	AAD	IEEE \$02.31ac WiF3 (80MHz, MGS7, 99pc duty cycle)	WEAN	8.50	19.6
10552	AAD	IEEE 602.11ac WiF? (80 MHz, MCS8, 99pc duty cycle)	WEAN	8.42	±9,6
10553	AAD	IEEE 802.11ac WiF: (80 MHz, MCS9, 99pc duty cycle)	WEAN	8.45	±9.6
10:554	AAE	IEEE 802.11ac WiFi (160 MHz, MCSO, 99pc duty cycle)	WEAN	8.48	<u>1</u> 9.6
10.565	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 WIF: (160 MHz, MCS3, 99pc duty cycle)	WI.AN	8.52	<u>19</u> .6
1055B	AAE	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6
10560	AAE	IEEE 802.11ac WiFr (160 MHz, MCS6, 99pc duty cycle)	WEAN	8.73	+9.6
10561	AAE	IEEE 602.11ac WiFr (160 MHz, MCS7, 99pc duty cycle)	WEAN	8.56	<u>+</u> 9.6
10562	AAE	IEEE 802.11ac WiFI (180 MHz, MCS8, 99pc duty cycle)	WEAN	8,69	±9.6
10563	AAE	IEEE 802.11ac WIFI (160 MHz, MCS9, 99pc duty cycle)	WEAN	8.77	±9.6
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFOM, 9Mbps, 99pc duty cycle)	WEAN	8.25	±9.6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WE.AN	8.45	Tð:6
10566	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 95pc duty cyclo)	WLAN	8.13	±9.8
10567	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	:±9.6
10568	AAA	EEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duly cycle)	WLAN	8.37	Tð'8
10569	AAA	EEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10570	AAA	EEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	EEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.09	Tð:9
10572	AAA	IEEE 802.115 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, 6.5 Mbps, 90pc duty cycle)	WLAN	1.98	β.θ±
10574	AAA	IEEE 802.1 tb WIFI 2.4 GHz (DSSS, 11 Mbps, 90pc 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	19.6
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	\$.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	EEE 802.1 fg WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	: <u>+</u> 9.6
10579	AAA	IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duly cycle)	WLAN	8.96	±9.6
10586	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 96 Mbps, 90pc duty cycle)	WLAN	6.76	±9.6
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	:±9.6
10583	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps. 90pc duty cycle)	WLAN	8.59	±9.6
10594	AAO	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 90pc duly cycle)	WLAN	8.60	±9.6
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10586	AAD	IEEE 802.11a/h WiFI 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	19.6
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 (OFOM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10589	AAD	IEEE 802.11a/h WiFi 5 GHz (OFOM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10590	AAD	IEFE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	<u>±</u> 9.6
10591	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WEAN	8.69	±9.6
10592	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WI.AN	8.79	±9.6
10593	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MGS2, 90pc duty cycle)	WEAN	8.64	÷9.6
10594	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS9, 90pc duty cycle)	WLAN	8.74	<u>.</u> Ŀ9.6
10595	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WEAN	8.74	±9.6
10596	AAD	IEEE 802.1 in (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WEAN	8.71	±9.6
10697	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WE AN	8.72	±9.6
10598	AAD	IEEE 802.1 In (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WEAN	8.50	+9.6
10599	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty sycle)	WEAN	8.79	<u>.</u> :9.6
10600	AAD	IEEE 802.1 1 (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WEAN	8.88	±9.6
10601	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WEAN	6.62	±9.6
10602	AAD	IEEE 802.11h (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6
10603	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MGS4, 90pc duty cycle)	WEAN	9.03	+9.6
10604	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WEAN	8.76	<u>1</u> 9.6
10605	AAD	IEEE 862.11n (HT Mixed, 40 MHz, MCSB, 90pc duty cycle)	WEAN	8.97	±9.6
10806	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WEAN	6.62	±9.6
10607	AAD	IEEE 802.11 ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WEAN	8.64	±9.6
10603		IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle)	WEAN	8.77	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10609	AAD	IEEE 802.11ac WiFI (20 MHz, MC52, 90pc duly cycle)	WLAN	8.57	±9.6
10610	AAD	IEEE 802.11ac WiFI (20 MHz, MCSS, 90pc duty cycle)	WLAN	8.78	<u>₹</u> 9.6
10811	AAD	IEEE 802 11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAD	EEE 802.11ac WFI (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9,6
10613	AAD	IEEE 802.11ac WIFI (20MHz, MC56, 90pc duty cycle)	WLAN	8.94	+9.6
10614	AAD	IEEE 802.11ac WIFI (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	19.6
10615	AAD	IEEE 802.11ac WiFi (20MHz, MGS8, 90pc duty cycle)	WLAN	B.82	±9.6
10616	AAD	IEEE 802.11ac WIFI (40 MHz, MCSD, 90pc duty cycle)	WI.AN	8.82	
10617	AAD	IEEE 802.11ac WIFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	19.6
10618	AAD	IEEE 802.11ac WIFI (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	AAD	IFEE 602.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.8
10620	AAD	IEEE 602.11ac WiF: (40 MHz, MGS4, 90pc duly cycle)	WI.AN	B.87	±9.6
10621	AAD	IEEE B02.11ac WIF (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10-622	AAD	IEEE \$02.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	B.68	±9.6
10623	AAD	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WI.AN	8.82	±9.6
10-624	AAD	IEEE 802.1 flac WIFi (40MHz, 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 802.11gc WiFi (80MHz, MGS0, 90pc duty cycle)	WLAN	8.83	::9.6
\$0627	AAD	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	<u>i</u> 9.6
10628	AAD	IEEE 802.1 Lac WiFI (80 MHz, MC52, 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 (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	<u>-9.6</u>
10631	AAD	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.61	<u>±9.6</u>
10632	AAD	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duly cycle)	WLAN	8.74	±9.6
10633	AAD	IEEE 802.11ac WIFI (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	£9.6
10634	AAD	IEEE 802.11ac WIFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	<u>⊧</u> 9.6
10635	AAD	IEEE 802.11ac WiFs (80 MHz, MCS9, 90pc duty cycle)	WLAN	B.S1	±9.6
10636	AAE	IEEE 802.f1ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10637	AAE	IEEE B02.11ac WIFT (160 MHz, MCS1, 90pc duty cycle)	WI.AN	8.79	18.6
10638	AAE	IEEE 602.11ac WIFi (160 MHz, MCS2. 90pc duty cyclo)	WLAN	6.86	±9.6
10639	AAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duly cycle)	WLAN	B.85	+9.6
10640	AVE	IEEE 602.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10641	AAE	IEEE 802.11ac WIFI (160 MHz, MCS5, 90pc duty cycle)	WI.AN	9.06	±9.6
10642	AAE	IEEE B02.11ac WIFr (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10649	AAE	IEEE 602.11ac WiFi (160 MHz, MCS7, 90pc duly cycle)	WLAN	B.89	+9.6
10644	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc daty cycle)	WLAN	9.05	<u>1</u> 9.6
10645	AAE	IEEE 802.11ac WIFt (160 MHz, MCS9, 90pc duty cycle)	WI.AN	9,11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, OPSK, UL Subframe=2,?)	LTE-TDD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20MHz, QPSK, UL Subframe=2,7)	LTE-TOD	11.96	<u>+</u> 9.6
10648	AAA	CDMA2000 (1x Advanced)	COMA2000	3.45	<u>1</u> 9.6
10652	AVE	LTE-TDD (OFDMA, 5MHz, 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-TED (OFDMA, 15 MHz. E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	* 9.6
10655	AAF	LTE-TED (OFEMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6
10:658	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	<u>i</u> 9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Tesi	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
1067t	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	EEE 802.1 Sax (20 MHz, MCS1, 90pc duty cycle)	WEAN	8.57	<u>1</u> 9.6
		IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	19.6
10673	AAG			0.74	
10673 10674	AAC	IEEE 802.11 ax (20 MHz, MC53, 90pc duty cycle)	WI, AN	8.74	±9.6
10673 10674 10675	AAC AAC	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)	WLAN WLAN	8.90	±9.6
10673 10674 10675 10676	AAC AAC AAC	IEEE 802.11 ax (20 MHz, MCS3, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS4, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS4, 90pc duty cycle)	WI,AN WLAN WLAN	8.90 8.77	±9.6 <u>1</u> 9.6
10673 10674 10675 10676 10677	AAC AAC AAC AAC	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)	WLAN WLAN WLAN WLAN	8.90 8.77 8.79	±9.6 <u>±9.6</u> <u>1</u> 9.6
10673 10674 10675 10676 10677 10678	AAC AAC AAC AAC AAC	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)	WI,AN WLAN WLAN WLAN WLAN	8.90 8.77 8.79 8.78	±9.6 <u>1</u> 9.6 <u>1</u> 9.6 ±9.6
10673 10674 10675 10676 10677 10678 10679	AAC AAC AAC AAC AAC AAC	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)	WEAN WEAN WEAN WEAN WEAN	8.90 8.77 8.79 8.78 8.78 8.89	±9.6 <u>19.6</u> ±9.6 ±9.6 ±9.8
10673 10674 10675 10676 10677 10678 10679 10580	AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11 ax (20 MHz, MCS3, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS3, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS4, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS5, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS7, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS9, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS9, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS9, 90pc duty cycle)	WLAN WLAN WLAN WEAN WEAN WEAN WEAN WEAN	8.90 8.77 8.73 8.78 8.89 8.89 8.80	±9.6 <u>19.6</u> ±9.6 ±9.6 ±9.6 ±9.8
10673 10674 10675 10676 10677 10678 10679 10680 10681	AAC AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)	WLAN WLAN WLAN WEAN WEAN WEAN WEAN	8.90 8.77 8.79 8.78 8.89 8.89 8.80 8.62	±9.8 <u>19.6</u> ±9.6 ±9.6 ±9.6 ±9.8 ±9.8 ±9.8
10673 10674 10675 10676 10677 10678 10679 10580 10681 10682	AAC AAC AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (20MHz, MCS1, 80pc duty cycle)	WLAN	8.90 8.77 8.79 8.78 8.89 8.89 8.80 8.62 8.62 8.89	±9.8 <u>19.6</u> ±9.6 ±9.6 ±9.6 ±9.6 <u>19.6</u> <u>19.6</u>
10673 10674 10675 10676 10677 10678 10679 10680 10681 10682 10693	AAC AAC AAC AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11 ax (20 MHz, MCS3, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS4, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS5, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS5, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS5, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS7, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS7, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS9, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS9, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS9, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS9, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS11, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS11, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS10, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS10, 90pc duty cycle)	WLAN WLAN	8.90 8.77 8.79 8.78 8.89 8.89 8.62 8.62 8.83 6.42	+9.8 <u>19.6</u> +9.6 +9.6 +9.6 +9.6 <u>19.6</u> <u>19.6</u> +9.6
10673 10674 10675 10675 10676 10677 10678 10679 10680 10681 10682 10683 10684	AAC AAC AAC AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11 ax (20 MHz, MCS3, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS4, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS6, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS7, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS7, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS7, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS7, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS7, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS9, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS1, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS1, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS1, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS1, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS1, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS1, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS1, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS1, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS1, 90pc duty cycle)	WLAN WLAN WLAN WEAN	8.90 8.77 8.73 8.78 8.89 8.80 8.62 8.89 0.42 8.25	+9.6 <u>19.6</u> +9.6 +9.6 +9.6 +9.6 <u>19.6</u> <u>19.6</u> +9.6 +9.6 +9.6
10673 10674 10675 10676 10677 10678 10679 10680 10681 10682 10693	AAC AAC AAC AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11 ax (20 MHz, MCS3, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS3, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS4, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS5, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS7, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS9, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS11, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS10, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS1, 90pc duty cycle) IEEE 802.11 ax (20 MHz, MCS1, 90pc duty cycle)	WLAN WLAN	8.90 8.77 8.79 8.78 8.89 8.89 8.62 8.62 8.83 8.42	+9.8 <u>19.6</u> +9.6 +9.6 +9.6 +9.6 <u>19.6</u> <u>19.6</u> +9.6

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	Marca a		0	PAR (dB)	Unc [£] k = 2
UID	Rev	Communication System Name	Group WLAN	8.45	<u>19.6</u>
10687	AAC	IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)	WLAN	8,29	<u>19.6</u> <u>19.6</u>
10688	AAC	IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6
10689	AAC	IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle) IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±3.0 ±9.6
10690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc obly cycle)	WLAN	8.25	±9.6
10691	AAC	IEEE 802.11 ax (20 MHz, MCSB, 99pc duty cycle)	WLAN	8.29	±9.6
10692	AAC	IEEE 802.118x (20 MHz, MCS10, 99pc duty cycle)	WI,AN	8.25	±9.6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 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	FEEE 802.11ex (48 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
10697	AAC	EEE 602.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	+9.6
10698	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.89	±9.6
10699	AAC	IEEE 302.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6
10700	AAC	FEEE 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	<u>≥</u> 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	<u>+9.6</u>
10705	AAĊ	IEEE 802.11 fax (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 802.11 fax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	<u>1</u> 9.6
10708	AAC	IEFE 802.11 ax (40 MHz, MCS1, 99pc duly cycle)	WLAN	8.55	±9.6
10709	AAC	IEEE 802.11 tax (40 MHz, MCS2, 99pc duly cycle)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	<u>+9.6</u>
10711	AAG	IEEE 802.11 ax (40 MHz, MCS4, 99pc duty cycle)	WI. AN	6.39	49.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6
10713	AAC	IEEE 802.1 fax (40 MHz, MCS6, 99pc duly cycle)	WLAN	8.33	±9.6
10714	AAC	IEEE 802.1 fax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	19.6
10715	AAÇ	IEEE 802.11 Fax (40 MHz, MCSB, 99pc duty cycle)	WLAN	8.45	±9.6
10716	AAC	IEEE 802.11 ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9.6
10717	AAC	IEEE 802.1 fax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8.48	+9.6
10718	AAC	EEE 602.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	<u>.</u> 9.6
10719	AAC	IEEE 802.11 Fax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6
10720	AAC	IEEE \$02.11ex (\$0 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 602.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	<u>÷</u> 9.6
10722	AAC	IEEE 802.11 ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.55	<u>∡</u> 9.6
10723	AAC	IEEE 602.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MC\$5, 90pc duty cycle)	WLAN	8.90	÷9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	29.6
10726	AAC	IEEE 802.11ax (60 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCSB, 90pc duly cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE B02.11 ax (B0 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10729	AAC	IEEE \$02.11ex (\$0 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	<u>-</u> 9.6
10730	AAC	IEEE 802.11ax (60 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 B02.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.4G	<u>-</u> 9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	<u></u>
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	IEEE B02.11ax (B0 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	<u>-</u> 9.6
10737	AAC	IEEE B02.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	<u>-</u> 9.6
10738	AAC	IEEE 802.11ex (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 BOD. 11ax (B0 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	÷9.6
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duly cycle)	WLAN	8.43	<u>_</u> 9.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6
10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pp 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	<u>.</u> ±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, MC\$5, 90pc duty cycle)	WLAN	8.93	±9.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WI.AN	8.90	±9.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WŁAN	8.79	±9.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	19.6
10752	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	<u>⊬</u> 9.6

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10753	AAC	IEEE 802.11 ax (160MHz, 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	AAG	FEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	19.6
10756	AAC	IEEE 802. I 1ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
10757	AAC	IEEE B02.11ax (160 MHz, MCS2, 99pc duty cycle)	WEAN	8.77	±9.6
10758	AAC	EEE BO2.11ax (160 MHz, MCS3, 99pc duty cycle)	WEAN	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 (160MHz, MCS6, 99pc duty cycle)	WLAN	6.5B	+9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	<u>1</u> 9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCSB, 99pc duty cycle)	WLAN	8.53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9. 99pc duly cycle)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duly cycle)	WEAN	8.54	±9.6
10766	AAC	IEEE 802.11 ax (160 MHz, MCS11, 99pc duty cycle)	WEAN	8.51	±9.6
10767	AAG	5G NR (CP-OFDM, 1 RB, 5 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAE	50 NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.01	:19.6
10769	AAD	5G NR (CP-OEDM, 1 RB, 15 MHz, QPSK, 15×Hz)	5G NR FR1 TDD	8.01	19.6
10770	AAE	5G NR (CP-OFDM, 1 R8, 20 MHz, QPSK, 15 kHz)	5G NR FRI TDD	8.02	±9.6
10771	AAD	5G NR (CP-OFDM, 1 98, 25 MHz, OPSK, 15 kHz)	5G NR FRI TDD	8.02	±9.6
10772	AAE;	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	50 NR FRI TDD	8.23	<u>1</u> 9.6
10773	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NA FA1 TOD	8.03	±9.6
10774	AAE	5G NR (GP-OFDM, 1 RB, 50 MHz, OPSK, 15 kHz)	5G NR FR1 7DD	8.02	±9.6
10775	AAF	5G NR (CP-OFDM, 50% AB, 5MHz, QPSK, 15 kHz)	5G NR FR1 TOD	8.31	±9.6
10776	AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TOD	8.30	±9.6
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TOD	8.30	±9.6
10778	AAE	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 T00	8.34	+9.6
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	<u>19.6</u>
10780	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TD0	8.98	±9.8
10781	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782	AAE	5G NH (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)	56 NR FRI TDD	8.31	±9.6
10784	AAE	5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 15 kHz)	50 NR FR1 TDD	8.29	±9.6
10785	AAD	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 TOD	8.40	±9.6
10786	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TOD	8,35	±9.6
10787 10788	AAD AAE	5G NR (CP-OFDM, 100% R8, 25 MHz, OPSK, 15kHz)	5G NR FR1 TDD	8.44	±9.6
10789	AAF	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15kHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.99	±9.6
10790	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR3 TDD	8.97	±9.6
10791	AAG	5G NR (CP-OFDM, 100% RB, 30 MHz, CPSK, 75 KHz)	5G NR FRI TOD	8.39	19.6
10792	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10793	AAD	5G NR (CP-OFDM. 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	7.92	±9.6
10794	AAE	5G NR (CP-OFDM, 1 RB, 20MHz, QFSK, 30 kHz)	5G NR FR1 TOD	7.95	±9.€
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	7.84	: <u>±9.6</u>
10796	AAE	50 NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)			±9.6
10797	AAF	50 NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TOD 5G NR FR1 TOD	7.82	±9.6
10798	AAE	5G NR (CP-OFDM, 1 R8, 50 MHz, QPSK, 30 KHz)	5G NR FRI TDD	7.89	÷9.6
10799	AAF	5G NR (GP-OFDM, 1 RB, 60 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10801	AAF	5G NR (CP-OFDM, 1 HB, 80 MHz, QPSK, 30 kHz)	5G NR FRI TDD	7.83	±9.6
10802	AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5GNR FRI TDD	7.87	±9.6
10803	AAF	5G NR (CP-OFDM, 3 RB, 100 MHz, QPSK, 30 KHz)	5G NR FRI TDD	7.93	19.6
10805	AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, OPSK, 30 kHz)	50 NR FRI TDD	8.34	±9.6
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30kHz)	5G NR FAI TOD	8.37	±9.6
10809	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FRI TOD	8.34	±9.6
10810	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.34	19.6
10812	AAF	SG NR (CP-OFDM, 50% RB, 60MHz, QPSK, 30kHz)	5G NR FR1 TOD	8.35	19.6
10817	AAG	5G NR (CP-OFOM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10818	AAE	5G N8 (CP-OFDM, 100% AB, 10 MHz, QPSK, 30 kHz)	50 NR FR1 100	8.94	±9.6
10819	AAD	50 NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
10820	AAS,	59 NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FRI TDD	8.30	+9.6
10821	AAD	5G NR (CP-OFDM, 100% RB, 25MHz, QPSK, 30kHz)	5G NR FRI TDD	8.41	19.6
10822	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, OPSK, 30 kHz)	50 NR FRI TDD	8.41	±9.5
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% R8, 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 TOD	8.41	19.6
10050					
10827	AAF	5G NR (GP-OF0M, 100% 98, 80 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.6

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10829	AAF	5G NR (CP-OFDM, 100% RB, 100 MHz, OPSK, 30 KHz)	5G NR FR1 TOD	8.40	19.6
10830	AAE	5G NR (CP-OFDM, # RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10831	AAD	5G NR (CP-OFDM, † RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TOD	7.73	±9.6
10832	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 KHz)	5G NR FR1 TOD	7.74	+9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 60kHz)	5G NR FR1 TOD	7.70	<u>.</u>
10834	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TOD	7.75	±9.6
10835	AAF	5G NR (CP OFDM, 1 RB, 40 MHz, OPSK, 60 kHz)	56 NR FR1 T00	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 TOD	7.68	±9.6
10839	AAF	50 NR (CP-OFDM, 1 R8, 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	±9.8
10841	AAF	5G NR (CP-OFOM, 1 RB, 100 MHz, QPSK, 60 KHz)	5G NR FR1 TDD	7.71	+9.6
10843	AAD	50 NR (CP-0F0M, 50% RB, 15MHz, QPSK, 60KHz)	5G NR FR1 TDD	8.49	±9.6
10844	AAE	5G NR (CP-OFDM, 50% RB, 20MHz, QPSK, 60kHz)	5G NR FRI TOU	8.34	±9.6
10846	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	+9.E
10854	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	8.34	19.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NA FRT TDD	8.36	±9.6
10856	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.8
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	50 NR FR1 TDD	8.35	19.6
10858	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 80kHz)	5G NA FRI TDD	8.36	±9.1
10859	AAE	5Q NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NA FRI TOD	8.34	±9.4
10860	AAE	5G NA (CP-OFDM, 100% RB, 50 MHz, QP5K, 60 kHz)	5G NR FR1 TDD	8.41	<u>1</u> 9.4
10861	AAF	5G NA (CP-OFDM, 100% RB, 50 MHz, QPSK, 50 kHz)	5G NR FRI TOD	8.40	T-8.4
10863	AAF	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60kHz)	5G NR FRI TDD	6.41	±9.1
10864	AAE	50 NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60kHz)	5G NR FRI TDD	8.37	±9.
10865	AAF	5G NA (CP. OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	50 NR FRI TOD	8.41	Ŧð.
10866	AAF	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.
10868	AAE	5G NR (DFT-s-OFDM, 100% R8, 100 MHz, QPSK, 30kHz)	5G NH FRI TOD	5.89	±9.
10689	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	<u>⊥</u> 9.
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	50 NR FR2 TOD	5.86	±9.
10871	AAE	5G NR (DFT-s-OFDM, 1 RB. 100 MHz, 160 AM, 120 kHz)	5G NR FR2 TOD	5.75	±9.
10872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 160AM, 120 kHz)	5G NR FR2 TDD	6.52	. ±9.
10873	AAE	50 NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	9.
10874	AAE	5G NR (DFT:s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	50 NR FR2 TOD	6.65	±9.
10875	AAE	5G NA (CP-OFDM, 1 AB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, OPSK, 120 RHz)	5G NA FA2 TOD	8.39	+9.
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.
10879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FA2 TOD	8.12	±9.
10880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 640AM, 120 kHz)	5G NR FR2 TDD	8.38	±9.
10881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9
10882	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.
10883	AVE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 160AM, 120 kHz)	5G NR FR2 TDD	6.57	±9.
10884	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 160AM, 120 kHz)	5G NR FR2 TDD	6.59	Tð.
10885	AAE	5G NR (DFT-6-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TOD	6.61	±9.
0886	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TOD	8.65	±9.
0887	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120×Hz)	5G NR FR2 TDD	7.78	÷9.
088B	AAE	5G NR (CP-OFDM, 100% AB, 50 MHz, OPSK, 120kHz)	5G NR FR2 TOD	8.35	19
0889	AAE	5G NR (CP-OFOM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TOD	8.02	±9.
0890	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TOD	8.40	±9.
(0891	AAE	50 NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TOD	8.13	±9.
10892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TOD	B.41	<u>1</u> 9.
10897	AAE	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.66	19
1089B	AAG	5G NR (DFT-E-OFDM, 1 RB, 10 MHz, QPSK, 90 kHz)	5G NR FR1 TDD	5.67	±9.
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 90 kHz)	5G NR FRI TOD	5.67	±9.
10900	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.68	: <u>+</u> 9.
10901	AAB	5G.NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.6B	<u>1</u> 9.
10902	AAG	5G NR (DFT-s-OFDM, 1 RB, 30MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.68	±9,
(0903	AAD	5G NR (DFT-s-OFDM, 7 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.68	±9.
10904	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FRI TOD	5.68	±9.
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60MHz, QPSK, 30kHz)	5G NR FR1 TOD	5.68	+9
10906	AAD	5G NR (DFT-s-OFDM, † RB, BOMHZ, QPSK, 30kHz)	5G NR FR1 TOD	5.68	±9.
0907	AAE	5G NR (DFT-s-OFDM, 50% AB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.78	±9.
10.908	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30%Hz)	5G NR FR1 TOD	5.93	±9.
0909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.
10,303					

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			C	040 (40)	$Unc^{E} k = 2$
UID	Rev	Communication System Name	Group	PAR (dB) 5.93	10nc* K = 2 ±9.6
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 30KHz)	5G NR FR1 TDD 5G NR FR1 TDD	5.84	±9.6
10912	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FRI TDD	5.84	19.6
10918	AAD AAC	SG NR (DFT-s-DFDM, 50% RB, 40MHz, QPSK, 30kHz) 5G NR (DFT-s-OFDM, 50% RB, 50MHz, QPSK, 30kHz)	5G NR FRI 100	5.85	19.6
	AAC AAD	5G NR (DF1-s-OFDM, 50% RB, 50MHZ, OPSK, 30KHZ)	5G NR FRI TDD	5.83	19.6 19.5
10915 10916	AAD	5G NR (DF1-s-OFDM, 50% RB, 80MHz, GPSK, 30KHz)	5G NR FRI TDD	5.87	±9.0 ±9.5
10910	AAD		5G NR FR1 TDD	5,94	1.0.0
10917	AAD	5G NR (DFTs-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) 5G NR (DFTs-OFDM, 100% RB, 5MHz, QPSK, 30 kHz)	5G NR FRI TOD	5.86	±9.6
10919	AAC	5G NR (DFT-s-OFDM, 100% FB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	+9.6
10920	AAB	5G NR (DFFs-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	19.6
10921	AAC	5G NR (DFT-S-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAB	5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 30×Hz)	5G NR FRI TOD	5.82	±9.6
10923	AAC	5G NR (DFF3-OFDM, 100% RB, 30 MHz, QPSK, 30 KHz)	5G NR FRI TDD	5.84	+9.6
10924	AAD	5G NR (DFT-S-OFDM, 100% RB, 40 MHz, QPSK, 308Hz)	5G NR FR1 TDD	5.84	19.6
10925	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FRI TDD	5.95	±9.6
10926	AAD	5G NR (DFT-s-OFDM, 100% PB, 60 MHz, QPSK, 30 kHz)	5G NR FRI TDD	5.B4	+9.5
10927	AAD	50 NR (DFT-8-OFDM, 100% RB, 80 MHz, QPSK, 30 KHz)	5G NR FRI TDD	5.94	<u>1</u> 9.6
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.62	±9.6
10929	AAD	5G NR (DET-s-OPDM, 1 98, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10990	AAC	5G NR (DFT-a-OF0M, 1 FB, 15 MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.52	<u>1</u> 9.6
10981	AAC	5G NR (DFT-8-OFDM, 1 FB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAC	5G NR (DFT's OFDM, 1 PB, 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
10994	AAC	5G NR (DFFs-OFDM, 1 HB, 40 MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.51	19.6
10995	AAD	5G NR (DFT-8-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, 15kHz)	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	<u>1</u> 9.6
10998	AAG	5G NR (DFT-s-OFDM, 50% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.90	±9.6
10939	AAC	5G NR (DFT-8-OFDM, 50% RB, 20MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.82	±9.6
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	<u>:</u> 9.6
10941	AAC	5G NR (DFTs-OFDM, 50% RB, 30MHz, QPSK, 15kHz)	5G NR FRI FDD	5.83	±9.6
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.85	±9.6
10943	AAD	5G NR (DFT-8-OFDM, S0% RB, 50 MHz, QPSK, 15 kHz)	5G NR FH1 FDD	5.95	±9.6
10944	AAD	5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.81	<u>1</u> 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 FRt FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MH2, QPSK, 15 kH2)	5G NR FR1 FDD	5.87	+9.6
10948	AAÇ	5G NR (DFT-9-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	<u>:</u> ±9.6
10949	AAC	5G NR (DFF-s-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, 15kHz)	5G NR FR1 FDD	5,94	±9.6
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, OPSK, 15kHz)	5G NR FA1 FDD	5.92	±9.6
10952	AAA	5G NR DL (GP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)	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, 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	SG NR DL (CP-OFOM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 F0D 5G NR FR1 F0D	8.14	<u>19.6</u>
10957	AAA	5G NR DL (CP-OFDM, TM 9.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FRI FDD	8.31	±9.6
	AAA	5G N9 DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)		8.61	±9.6
10959 10960	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD 5G NR FR1 TDD	8.33 9.32	±9.6
10960	AAE	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	19.6 ±9.6
10962	AAB	5G NR DE (CP-OFDM, 1M 3.1, 10 MHz, 64-QAM, 13 kHz) 5G NR DE (CP-OFDM, 1M 3.1, 15 MHz, 64-QAM, 15 kHz)	50 NR FRI TDD	9.30 9.40	
10962	AAC	5G NR DE (CP-OFDM, TM 3-1, 15 NIR4, 64-QAM, 15 KHz)	5G NR FRI TDD	9.40	±9.6 ±9.6
10963	AAE	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15MHz)	5G NR FR1 TDD	9.55	+9.6
10965	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MR2, 54 QAM, 30 KH2)	5G NR FR1 TDD	9.20	9.6 9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 Hz)	5G NR FR1 TDD	9.55	±9.6
10967	AAC	50 NR DE (CP-OFDM, TM 3-1, 13 MHz, 64-QAM, 30 KHz)	5G NR FRI TDD	9.33	±9.6
10968	AAD	5G NA DE (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FRI TDD	9.49	±9.6
10972	AAC	5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 15KHz)	5G NR FR1 TDD	11.59	±9.6
10973	AAD	5G NR (DFT-s-OFDM, 1 RB, 100MHz, QPSK, 30kHz)	5G NR FR1 TDD	9.06	19.6
10974	AAD	50 N9 (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
	AAA	ULLA BOR	ULEA	1.16	±9.8
			ULLA	8.58	+9.5
10978	AAA				
10978 10979	AAA AAA	ULLA HDP3			
10978	AAA AAA AAA	ULLA HDR9 ULLA HDR9	ULLA	10.32	19.6 19.6

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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 FRITTDD	9.91	19.6
10984	AAB	50 NR DL (CP-OFDM, TM 9.1, 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)	SG NR FR1 TDD	9.50	±9.6
10987	AAC	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-OAM, 30 kHz)	5G NR FR1 TDD	9.53	<u>19.6</u>
10986	AAB	5Q NR DL (CP-OFDM, TM 9.1, 70 MHz, 64-QAM, 30 kHz)	5G NA FA1 TDD	9.98	±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
11:003	AAA	5G NR DL (CP-OFDM, TM 9.1, 30 MHz, 64-0AM, 15 kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5Q NR DI. (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)	SG 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-DAM, 15 kHz)	5G NR FR1 FDD	ô.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 9.1, 25 MHz, 64-QAM, \$0 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 N9 FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-OAM, 30 kHz)	5G N9 FA1 FDD	6.96	±9.6
11012	AAA	5G NR DI. (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	29.6
11013	AAB	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WE AN	8.47	₹ð'ê
91014	AAB	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WEAN	8.45	±9.6
11015	AAB	IEEE 802.11be (320 MHz, MCS3, 99pc duity cycle)	WEAN	8.44	±9.6
†101 8	AAB	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WE.AN	8.44	19.6
11017	AAB	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WEAN	8.41	±9.6
11018	AAB	IEEE 802.11 be (320 MHz. MCS6, 99pc duty cycle)	WLAN	8.40	±9.б
11019	BAB	IEEE 802.11be (320 MHz, MCS7, 99pc duly cycle)	WLAN	8.29	<u></u> ±9.6
11020	AAB	IEEE 802.11he (920 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	<u>1</u> :9.8
11023	AAB	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6
11024	AAE	IEEE 802.11be (920 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.6
11025	AAB	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	t:9.6
11026	AAB	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	<u>⊦</u> 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.

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Appendix Dipole / Verification source calibration record

CLA13 - SN:1025

Schmid & Partner Engineering AG Jeughausstrasse 43, 8004 Zurich,	Of	SC S	Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service
Accredited by the Swiss Accreditation The Swiss Accreditation Service in Multilateral Agreement for the rec	is one of the signatorie		Accreditation No.: SCS 0108
Client UL Japan Head Of Ise, Japan	ffice	Certificate No.	CLA13-1025_Jul24
CALIBRATION C	ERTIFICATE		
Object	CLA13 - SN: 102	5	
Calibration procedure(s)	QA CAL-15.v11 Calibration Proce	dure for SAR Validation Sources	below 700 MHz
Calibration date:	July 02, 2024		
The measurements and the uncerta	ainties with confidence pr	onal standards, which realize the physical unit robability are given on the following pages and y facility: environment temperature (22 ± 3)°C	d are part of the certificate.
The measurements and the uncerta	ainties with confidence pr	robability are given on the following pages and	d are part of the certificate.
The measurements and the uncerta All calibrations have been conducte Calibration Equipment used (M&TE Primary Standards Power meter NRP2	ainties with confidence pr ad in the closed laborator E critical for calibration) ID # SN: 104778	robability are given on the following pages and y facility: environment temperature (22 ± 3)°C Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037)	d are part of the certificate. and humidity < 70%. Scheduled Calibration Mar-25
The measurements and the uncerta All calibrations have been conducte Calibration Equipment used (M&TE Primary Standards Power meter NRP2 Power sensor NRP-291	ainties with confidence pr ad in the closed laborator E critical for calibration) ID # SN: 104778 SN: 103244	Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036/0	d are part of the certificate. 2 and humidity < 70%. <u>Scheduled Calibration</u> Mar-25 Mar-25
The measurements and the uncerta All calibrations have been conducte Calibration Equipment used (M&TE Primary Standards Power meter NRP2 Power sensor NRP-Z91 Power sensor NRP-Z91	ainties with confidence pr ad in the closed laborator E critical for calibration) ID # SN: 104778 SN: 103244 SN: 103245	Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036) 26-Mar-24 (No. 217-04036) 26-Mar-24 (No. 217-04036)	d are part of the certificate. and humidity < 70%. Scheduled Calibration Mar-25 Mar-25 Mar-25
The measurements and the uncerta All calibrations have been conducte Calibration Equipment used (M&TE Primary Standards Power meter NRP2 Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator	ainties with confidence pr ad in the closed laborator critical for calibration) ID # SN: 104778 SN: 103245 SN: 103245 SN: CC2552 (20x)	Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036) 26-Mar-24 (No. 217-04036) 26-Mar-24 (No. 217-04036)	d are part of the certificate. 2 and humidity < 70%. Scheduled Calibration Mar-25 Mar-25 Mar-25 Mar-25
The measurements and the uncerta All calibrations have been conducte Calibration Equipment used (M&TE Primary Standards Power meter NRP2 Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator Type-N mismatch combination	ainties with confidence pr ad in the closed laborator E critical for calibration) ID # SN: 104778 SN: 103244 SN: 103245	Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 26-Mar-24 (No. 217-04036) 26-Mar-24 (No. 217-04036) 26-Mar-24 (No. 217-04037) 26-Mar-24 (No. 217-04037) 26-Mar-24 (No. 217-04037) 26-Mar-24 (No. 217-04046) 26-Mar-24 (No. 217-04047)	d are part of the certificate. and humidity < 70%. Scheduled Calibration Mar-25 Mar-25 Mar-25 Mar-25 Mar-25
The measurements and the uncerta All calibrations have been conducte Calibration Equipment used (M&TE Primary Standards Power meter NRP2 Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator	ainties with confidence pr ad in the closed laborator critical for calibration) ID # SN: 104778 SN: 103244 SN: 103245 SN: C2552 (20x) SN: 310982 / 06327	Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036) 26-Mar-24 (No. 217-04036) 26-Mar-24 (No. 217-04036)	d are part of the certificate. 2 and humidity < 70%. Scheduled Calibration Mar-25 Mar-25 Mar-25 Mar-25
The measurements and the uncerta All calibrations have been conducte Calibration Equipment used (M&TE Primary Standards Power meter NRP2 Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards	ainties with confidence pr ed in the closed laborator critical for calibration) ID # SN: 104778 SN: 103244 SN: 103245 SN: 103245 SN: CC2552 (20x) SN: 310982 / 06327 SN: 3877 SN: 654 ID #	Cal Date (Certificate No.) 26-Mar-24 (No. 217-04036/04037) 26-Mar-24 (No. 217-04036) 26-Mar-24 (No. 217-04037) 26-Mar-24 (No. 217-04037) 26-Mar-24 (No. 217-04037) 26-Mar-24 (No. 217-04047) 10-Jan-24 (No. 217-04047) 10-Jan-24 (No. 217-04047) 15-Jan-24 (No. DAE4-654_Jan24) Check Date (in house)	d are part of the certificate. 2 and humidity < 70%. Scheduled Calibration Mar-25 Mar-25 Mar-25 Mar-25 Jan-25 Jan-25 Jan-25 Scheduled Check
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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Schweizerischer Kalibrierdienst 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 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%.

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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	53.3 ± 6 %	0.73 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	0.512 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	0.520 W/kg ± 18.4 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	1 W input power	0.319 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	0.324 W/kg ± 18.0 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	48.4 Ω + 2.8 jΩ
Return Loss	- 29.7 dB

Additional EUT Data

Manufactured by	SPEAG

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Date: 02.07.2024

DASY5 Validation Report for Head TSL

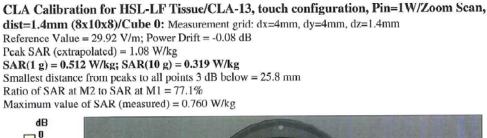
Test Laboratory: SPEAG, Zurich, Switzerland

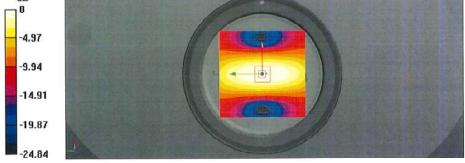
DUT: CLA13; Type: CLA13; Serial: CLA13 - SN: 1025

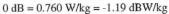
Communication System: UID 0 - CW; Frequency: 13 MHz Medium parameters used: f = 13 MHz; $\sigma = 0.73$ S/m; $\varepsilon_r = 53.3$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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: 15.01.2024
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2034
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

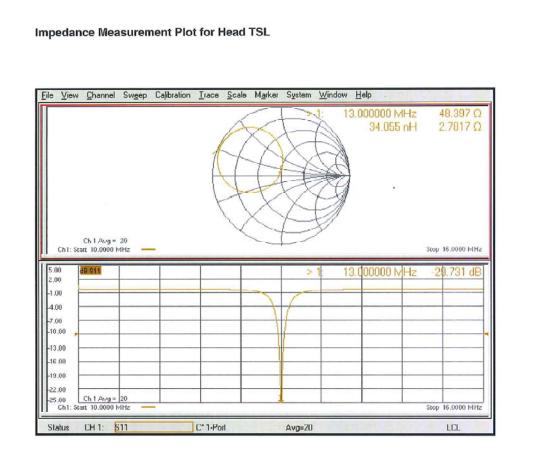






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