



Appendix F. – Probe Calibration Data



he Swis		ditation Service (SAS) vice is one of the signal ne recognition of calibration					0108
lient	HCT Gysonggl-do, R	epublic of Korea	C	ertificate No.	EX-7	7681_Nov23	
0.41		ERTIFICATE	হা		4	=1/A =1	1
CAL	IBRATION C	ERTIFICATE	Berl	123		A.	
Object		EX3DV4 - SN:7	681	56 /3= 2023.0.13	-	20201213	
Calbra	tion procedure(s)	QA CAL-25.v8	, QA CAL-12.v10 edure for dosime		0.152.00	CAL-23.v6,	
Caibra	tion date	November 27, 2	023				
The me All calit	asurements and the prations have been co	cuments the traceability to uncertainties with confidence inducted in the closed labor (M&TE critical for calibration	e probability are given atory facility: environme	on the following p	leges and	i are part of the cert	ficate
The me All calib Calibra Primary	asurements and the mations have been co tion Equipment used Standards	uncertainties with confidence inducted in the closed labor (M&TE critical for calibration	e probability are given atory facility: environme	on the following p ant temperature (2	leges and	i are part of the cert	Scate.
The me All calib Calibrat Primary Power n	assurements and the mations have been or tion Equipment used Standards neter NRP2	Incertainties with confidence inducted in the closed labor (M&TE critical for calibration ID SN: 104778	e probability are given atory facility: environment ) Cal Date (Certific 30-Mar-23 (No. 2	on the following p ent temperature (2 sate No.) 217-03804/03805)	eges and 22 ± 3) °C	I are part of the cert and humidity < 70% Scheduled Calibra Mar-24	Scate.
The me All calib Calibrat Primary Power n Power s	sourcements and the onations have been co tion Equipment used Standards neter NRP2 where NRP2	Incertainties with confidence inducted in the closed labor (M&TE critical for calibration ID SN: 104778 SN: 104244	e probability are given atory facility: environmen) Cal Date (Certilit 30-Mar-23 (No. 2 30-Mar-23 (No. 2	on the following p ant temperature (2 cate No.) 217-03804/03805) 117-03804)	ages and 22 ± 3) ℃	and humidity < 70% Scheduled Calibri Mar-24	Scate.
The me All calibra Calibrar Primary Power n Power s OCP DA	assurements and the mations have been or tion Equipment used Standards neter NRP2 emsor NRP-291 KK-3.5 (weighted)	uncertainties with confidence inducted in the closed labor (M&TE critical for calibration ID SN: 104778 SN: 103244 SN: 103244	e probability are given atory facility: environmen) Cal Date (Certific 30-Mar-23 (No. 2 30-Mar-23 (No. 2 05-Oct-23 (OCP-	on the following p ent temperature (2 2010 - 2010 - 2010 - 2010 217-03804/03805) 177-03804) DAK3.5-1249_Oc	ages and 22 ± 3) °C 123)	i are part of the cert and humidity < 70% Scheduled Calibra Mar-24 Mar-24 Oct-24	Scate.
The me All calibra Calibrat Primary Power n Power s OCP D/ OCP D/ Referen	assurements and the mations have been or tion Equipment used Standards neter NRP2 emsor NRP-291 KK-3.5 (weighted)	Incertainties with confidence inducted in the closed labor (M&TE critical for calibration ID SN: 104778 SN: 104244	e probability are given atory facility: environmen) Cal Date (Certific 30-Mar-23 (No. 2 30-Mar-23 (No. 2 05-Oct-23 (OCP-	an the following p ant temperature (2 atte No.) 17-03804/03805) 17-03804) DAK3.5-1249_Oc DAK12-1016_Oct	ages and 22 ± 3) °C 123)	and humidity < 70% Scheduled Calibri Mar-24	Scate.
The me All calib Calibrat Primary Power of Power s OCP D/ OCP D/ Reteran DAE4	assurements and the inations have been oc tion Equipment used Standards neter NRP2 ensor NRP-Z91 KK-3.5 (weighted) kK-12 cc 20 dB Attenuator	ID ID ID ID ID ID ID ID ID ID ID ID ID I	Cal Date (Certilic 30-Mar-23 (No. 2 30-Mar-23 (No. 2 06-Oct-23 (OCP- 06-Oct-23 (OCP- 06-Oct-23 (OCP- 06-Oct-23 (OCP- 16-Mar-23 (No. 2 16-Mar-23 (No. 2	on the following p ent temperature (2 217-03804/03805) 217-03804) DAK3.5-1249_Oc DAK12-1016_Oct 17-03809) XAE4-860_Mar23)	ages and 22 ± 3) °C (123) (123)	i are part of the cert and humidity < 70% Scheduled Calibra Mar-24 Oct-24 Oct-24 Oct-24 Mar-24 Mar-24 Mar-24	Scate.
The me All calib Calibrat Primary Power of Power s OCP D/ OCP D/ Reteran DAE4	assurements and the institutes have been oc- tion Equipment used Standards neter NRP2 enrisor NRP-291 UK-3.5 (weighted) UK-12	ID SN: 104778 SN: 104778 SN: 104244 SN: 1246 SN: 1018 SN: 1018 SN: CC2552 (20x)	ce probability are given atory facility: environment ) Cal Date (Certific 30-Mar-23 (No. 2 05-Oct-23 (OCP- 05-Oct-23 (OCP- 30-Mar-23 (No. 2 30-Mar-23 (No. 2	on the following p ent temperature (2 217-03804/03805) 217-03804) DAK3.5-1249_Oc DAK12-1016_Oct 17-03809) XAE4-860_Mar23)	ages and 22 ± 3) °C (123) (123)	i are part of the cert and humidity < 70% Scheduled Calibra Mar-24 Oct-24 Oct-24 Oct-24 Mar-24	Scate.
The me All calib Calibrat Primary Power s OCP D/ OCP D/ Reteran D/KE4 Referen	essurements and the institutes have been or tion Equipment used Standards inter NRP2 ensor NRP291 KK-35 (weighted) KK-12 ce 20 dB Attenuator ce Phobe ES3DV2 ary Standards	ID SN: 104778 SN: 104778 SN: 104778 SN: 104244 SN: 1046 SN: 1016 SN: CC2552 (20x) SN: 680 SN: 3013	Cal Date (Certilic 30-Mar-23 (No. 2 30-Mar-23 (No. 2 06-Oct-23 (OCP- 06-Oct-23 (OCP- 06-Oct-23 (OCP- 06-Oct-23 (OCP- 16-Mar-23 (No. 2 16-Mar-23 (No. 2	on the following p ent temperature (2 17-03804/03805) 17-03804) DAK3.5-1249_Oc DAK12-1016_Oct 17-03800] XE4-660_Mar23) S3-3013_Jan23)	ages and 22 ± 3) °C (123) (123)	i are part of the cert and humidity < 70% Scheduled Calibra Mar-24 Oct-24 Oct-24 Oct-24 Mar-24 Mar-24 Mar-24	ficate.
The me All calibra Calibral Primary Power s OCP DJ Roteman DAE4 Referen Secondi Power s	assurements and the inations have been or tion Equipment used Standards neter NRP2 ensor NRP-Z91 VK-3.5 (weighted) VK-12 ce 20 dB Attenuator ce Probe ES3DV2 ary Standards neter E4419B	ID SN: 104778 SN: 104778 SN: 104778 SN: 104778 SN: 10244 SN: 10244 SN: 1016 SN: 22552 (20x) SN: 660 SN: 3013	<ul> <li>Cal Date (Certilic 30-Mar-23 (No. 2 30-Mar-23 (No. 2 30-Mar-23 (No. 2 05-Oct 23 (OCP- 05-Oct 23 (OCP- 05-Oct 23 (OCP- 05-Oct 23 (OCP- 05-Oct 23 (No. 1 06-Jan-23 (No. 1 06-Jan-23 (No. 1 06-Jan-23 (No. 1 06-Jan-23 (No. 1)</li> </ul>	on the following p ent temperature (2 217-03804/03805) 217-03804) DAK12-1016-000 DAK12-0000 DAK12-0000 DAK12-0000 DAK12-0000 DAK12-0000 DAK12-0000 DAK12-000	eges and 22 ± 3) °C 123) 123)	i are part of the cert and humidity < 70% Mar-24 Mar-24 Oct-24 Oct-24 Oct-24 Mar-24 Mar-24 Jan-24 Scheduled Check In house check; J	dion
The me All calibra Calibra Primary Power n Power s OCP D/ OCP D/ OCP D/ OCP D/ Second Referen Second Power n Power s	assurements and the institutes have been oc- tion Equipment used standards inteer NRP2 enteer NRP2 enteer NRP-Z91 XK-12 co 20 dB Attenuator co Probe ES3DV2 ary Standards neter E44198 enter E4412A	ID ID ID ID ID SN: 104778 SN: 104778 SN: 104778 SN: 103244 SN: 1046 SN: 1016 SN: 02552 (20x) SN: 016 SN: 680 SN: 3013 ID SN: GB41293874 SN: MY41498087	Cal Date (Certilic 30-Mar-23 (No. 2 30-Mar-23 (No. 2 30-Mar-23 (No. 2 06-Oct-23 (OCP- 06-Oct-23 (OCP- 06-Oct-23 (OCP- 06-Mar-23 (No. 2 16-Mar-23 (No. 2 16-Mar-23 (No. 2 06-Jan-23 (No. 2 06-Jan-	on the following p ent temperature (2 217-03804/03805) 217-03804/03805) 217-03804) DAK3.5-1249_Oc DAK12-1016_Oct 217-03809) X8E4-660_Mar23) S3-3013_Jan23) Ouse) Jase check Jun-22) Jase check Jun-22)	ages and 22 ± 3) °C (123) (123) (1	i are part of the cert and humidity < 70% Scheduled Calibra Mar-24 Oct-24 Oct-24 Oct-24 Oct-24 Mar-24 Jan-24 Jan-24 Scheduled Check In house check: J In house check: J	dion un-24 un-24
The me All calib Calibrat Primary Power s OCP D/ OCP D/ Reteran DAE4 Referen Secondi Power s Power s Power s	Assuraments and the institutes have been oc- tion Equipment used Standards neter NRP-291 UK-3.5 (weighted) UK-12 (weighted) UK-12 (ce 20 dB Attenuator ce Probe ES3DV2 any Standards neter E44198 ensor E4412A ensor E4412A	ID ID SN: 104778 SN: 104778 SN: 104778 SN: 103244 SN: 1246 SN: 1246 SN: 1076 SN: CC2552 (20x) SN: 680 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: WY41498087 SN: OUT10210	cal Date (Certilic 30-Mar-23 (No. 2 30-Mar-23 (No. 2 30-Mar-23 (No. 2 05-Oct-23 (OCP- 05-Oct-23 (OCP- 05-Oct-23 (OCP- 05-Oct-23 (No. 2 16-Mar-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Jan-26 (In hot 06-Apr-16 (In hot 06-Apr-16 (In hot	an the following p ant temperature (2 2017-03804/03805) 117-03804/03805) 117-03804) DAK12-1046_Oct 2017-03809) XAE4-660_Mar23) S3-3013_Jan23) OUSE) Jase check Jun-22) Jase check Jun-22)	ages and 22 ± 3) °C (23) (23) (23)	i are part of the cert and humidity < 70% Mar-24 Mar-24 Oct-24 Oct-24 Oct-24 Mar-24 Mar-24 Jan-24 Scheduled Check In house check: J In house check: J In house check: J	rtion un-24 un-24 un-24
The me All calibra Calibrat Primary Power of Power s DCP DA Referen DAE4 Referen Second Power s Power s Referen Second Second Sec	assurements and the institutes have been oc- tion Equipment used standards inteer NRP2 enteer NRP2 enteer NRP-Z91 XK-12 co 20 dB Attenuator co Probe ES3DV2 ary Standards neter E44198 enter E4412A	ID ID ID ID ID SN: 104778 SN: 104778 SN: 104778 SN: 103244 SN: 1046 SN: 1016 SN: 02552 (20x) SN: 016 SN: 680 SN: 3013 ID SN: GB41293874 SN: MY41498087	ce probability are given atory facility: environment 30-Mar-23 (No. 2 30-Mar-23 (No. 2 30-Mar-23 (No. 2 06-Oct-23 (OCP- 06-Oct-23 (OCP- 06-Oct-23 (OCP- 06-Oct-23 (No. 2 16-Mar-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Apr-16 (in hot 06-Apr-16 (in hot 06-Apr-16 (in hot 06-Apr-16 (in hot 06-Apr-99 (in hot	on the following p ent temperature (2 217-03804/03805) 217-03804/03805) 217-03804) DAK3.5-1249_Oc DAK12-1016_Oct 217-03809) X8E4-660_Mar23) S3-3013_Jan23) Ouse) Jase check Jun-22) Jase check Jun-22)	eges and 22 ± 3) °C (23) (23) (23) (23) (23) (23) (23) (23)	i are part of the cert and humidity < 70% Scheduled Calibra Mar-24 Oct-24 Oct-24 Oct-24 Oct-24 Mar-24 Jan-24 Jan-24 Scheduled Check In house check: J In house check: J	dion un-24 un-24 un-24 un-24
The me All calib Calibrat Primary Power n Power s OCP D/ Referen DAE4 Referen Second Power s Power s Referens R	Assuraments and the inations have been co- tion Equipment used Standards inter NRP2 ensor NRP-291 KK-35 (weighted) UK-12 co 20 dB Attenuator co Probe ES3DV2 ary Standards neter E44198 ensor E4412A ensor E4412A ensor E4412A settor HP 8648C	Uncertainties with confidence inducted in the closed labor (M&TE critical for calibration SN: 104778 SN: 104778 SN: 1046 SN: 1046 SN: 1046 SN: 002552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41489087 SN: 000110210 SN: US3642U01700	ce probability are given atory facility: environment 30-Mar-23 (No. 2 30-Mar-23 (No. 2 30-Mar-23 (No. 2 06-Oct-23 (OCP- 06-Oct-23 (OCP- 06-Oct-23 (OCP- 06-Oct-23 (No. 2 16-Mar-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Apr-16 (in hot 06-Apr-16 (in hot 06-Apr-16 (in hot 06-Apr-16 (in hot 06-Apr-99 (in hot	on the following p ant temperature (2 22 217-03804/03805) 217-03804) DAK12-1016-000 DAK12-1016-000 DAK12-1016-000 JAE4-860_Mar23) S3-3013_Jan23) ouse) Jae check Jun-22) Jae check Jun-22 Jae check Jun-22	ages and 22 ± 3) °C (123) (123) (1 (1 (1) (1) (1) (1) (1) (1) (1) (1)	i are part of the cert and humidity < 70% Mar-24 Mar-24 Oct-24 Oct-24 Oct-24 Mar-24 Mar-24 Mar-24 Jan-24 Scheduled Check In house check: J In house check: J In house check: J In house check: J	dion un-24 un-24 un-24 un-24
The me All calib Calibrat Primary Power n Power s OCP D/ Referen DAE4 Referen Second Power s Power s Referens R	Assurements and the institons have been or tion Equipment used Standards neter NRP-2 enrsor NRP-291 XK-3.5 (weighted) XK-12 ce 20 dB Attenuator ce Probe ES3DV2 ary Standards neter E44198 ensor E4412A ensor E4412A	Uncertainties with confidence inducted in the closed labor (M&TE critical for calibration SN: 104778 SN: 104778 SN: 10244 SN: 10244 SN: 10244 SN: 1026 SN: 006 SN: 006 SN: 3013 SN: GB41293874 SN: 006110210 SN: 006110210 SN: US3642U01700 SN: US41060477	e probability are given atory facility: environment) Cal Date (Certilit 30-Mar-23 (No. 2 30-Mar-23 (No. 2 05-Oct-23 (OCP- 05-Oct-23 (OCP- 05-Oct-23 (OCP- 05-Oct-23 (OCP- 05-Oct-23 (OCP- 05-Oct-23 (No. 1 06-Oct-23 (No. 1 06-Apr-23 (No. 2 Check Date (in hor 06-Apr-16 (in hor 06-Apr-16 (in hor 06-Apr-16 (in hor 04-Aug-99 (in hor 31-Mar-14 (in hor Function	on the following p ant temperature (2 22 217-03804/03805) 217-03804) DAK12-1016-000 DAK12-1016-000 DAK12-1016-000 JAE4-860_Mar23) S3-3013_Jan23) ouse) Jae check Jun-22) Jae check Jun-22 Jae check Jun-22	eges and 22 ± 3) °C (123) (123	i are part of the cert and humidity < 70% Scheduled Calibra Mar-24 Oct-24 Oct-24 Oct-24 Mar-24 Jan-24 Scheduled Check In house check: J In house check: J In house check: J In house check: J	dion un-24 un-24 un-24 un-24
The me All calib Calibrat Primary Power n Power n Power n DAE4 Referen DAE4 Referen DAE4 Referen DAE4 Referen Secondi Rower n Referen Secondi Rower s RF gens Network	asurements and the inations have been or tion Equipment used Standards neter NRP2 ensor NRP-291 KK-35 (weighted) UK-12 co 20 dB Attenuator co 20 d	uncertainties with confidence inducted in the closed labor (M&TE critical for calibration SN: 104778 SN: 104244 SN: 104244 SN: 102444 SN: 102444 SN: 1026 SN: 0061 SN: 0061 SN: 0061 SN: 006110210 SN: 006110210 SN: US3642001700 SN: US3642001700 SN: US3642001700 SN: US3642001700 SN: US3642001700	e probability are given atory facility: environment) Cal Date (Certilit 30-Mar-23 (No. 2 30-Mar-23 (No. 2 05-Oct-23 (OCP- 05-Oct-23 (OCP- 05-Oct-23 (OCP- 05-Oct-23 (OCP- 05-Oct-23 (OCP- 05-Oct-23 (No. 1 06-Oct-23 (No. 1 06-Apr-23 (No. 2 Check Date (in hor 06-Apr-16 (in hor 06-Apr-16 (in hor 06-Apr-16 (in hor 04-Aug-99 (in hor 31-Mar-14 (in hor Function	on the following p ant temperature (2 22 22 22 22 22 22 22 22 22 22 22 22 2	eges and 22 ± 3) °C (123) (123	i are part of the cert and humidity < 70% Mar-24 Mar-24 Oct-24 Oct-24 Oct-24 Mar-24 Mar-24 Mar-24 Jan-24 Scheduled Check In house check: J In house check: J In house check: J In house check: J	dion un-24 un-24 un-24 un-24



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



s

C

ŝ

Schweizerischer Kallbrierdienst

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
NORMK,y.z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx v.z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization w	@ rotation around probe axis
Polarization $\vartheta$	O rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e.,      d = 0 is     normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

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

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

## Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization ∂ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz; R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- . PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C, D are numerical linearization parameters assessed based on the data of
  power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum
  calibration range expressed in RMS voltage across the diode.
- ConVF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800MHz) and inside waveguide using analytical field distributions based on power measurements for t > 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).

Contiliante klas EN 7004 klason

Base n -2 nn



#### November 27, 2023

# Parameters of Probe: EX3DV4 - SN:7681

# **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc $(k=2)$
Norm (µV/(V/m)2) A	0.68	0.66	0.69	±10.1%
DCP (mV) B	105.3	105.5	103.3	±4.7%

## **Calibration Results for Modulation Response**

UID	Communication System Name		A dB	B dBõV	c	D dB	WR mV	Max dev.	Max Unc <sup>E</sup> k = 2
Ð	CW	X	0.00	0.00	1.00	0.00	125.0	±2.4%	±4,7%
		Y	0.00	0.00	1.00		109.3		
		Z	0.00	0.00	1.00		123.9	1	
10352	Pulse Waveform (200Hz, 10%)	X	1.66	61.16	6.61	10.00	60.0	±2.9%	±9.6%
		Y	1,59	60.94	6.40		60.0		
	and the second sec	Z	1.68	61.33	6.71		60.0	1	
10353	Pulse Waveform (200Hz, 20%)	X	42.00	80.00	11.00	6.99	80.0	±2.5%	±9.6%
		Y	22.00	74.00	9.00		0.08		
	Street and the street of the	Z	42.00	80.00	11.00		80.0	1	
10354	Pulse Waveform (200Hz, 40%)	X	0.33	151.44	0.78	3.98	95.0	±2.8%	±9.6%
		Y	0.00	124.27	0.27		95.0		
	Contraction of the second second	Z	0.30	149,74	0.15		95.0	P	
10355	Pulse Waveform (200Hz, 60%)	X	8.74	159.33	25.26	2.22	120.0	±1.8%	±9.8%
		Y	4.70	159.99	3.61		120.0	and the second second	
		Z	8.68	159.46	25.68	1	120.0	1	
10387	QPSK Waveform, 1 MHz	X	0.64	63.96	12,25	1.00	150.0	±4.9%	±9.6%
		Y	0.66	63.24	11.65		150.0		
	Contraction of the second	Z	0.64	63.99	12,30		150.0	1	
10388	QPSK Waveform, 10 MHz	X	1.40	65.48	13.81	0.00	150.0	±1.3%	±9.6%
		Y	1.36	64.59	13.49	5	150.0		
	A DESCRIPTION OF THE OWNER OWNER	Z	1.40	65.56	13.84	Pierce and	150.0	1	
10396	64-QAM Waveform, 100 kHz	X	1.72	64.64	16.13	3.01	150.0	±1.0%	±9.6%
		Y	1.69	64.49	16.04		150.0		
		Z	1.68	64,24	15.84	Courses.	150.0	E.c.	
10399	64-QAM Waveform, 40 MHz	X	2.88	66.08	14.98	0.00	150.0	±2.3%	±9.6%
		Y	2.97	66.30	15.08	0	150.0	1	
and a		Z	2.89	66.12	15.02	-	150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	3.91	65.73	15.18	0.00	150.0	+4.2%	±9.6%
		Y	4.08	65.86	15.30		150.0	1	
		2	3.91	65.76	15.22	S	150.0		

# Note: For details on UID parameters see Appendix

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

A The unpertainties of Norm X,Y,Z do not affect the E<sup>E</sup>-field unpertainty inside TSL (see Pages 5 and 6). If Linearization parameter uncertainty for maximum specified field strength. If Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the aquare of the field value.

Cartificate No: EX-7881 Mec/99

Bana 6 =1.00



# November 27, 2023

# Parameters of Probe: EX3DV4 - SN:7681

## Sensor Model Parameters

	C1 fF	C2 fF	α V <sup>-1</sup>	T1 msV <sup>-2</sup>	T2 msV <sup>-1</sup>	T3 ms	T4 V-2	T5 V-1	T6
x	11.4	82.59	33.63	1.99	0.00	4.90	0.39	0.00	1.00
У	13.7	99.66	33.87	3.73	0.00	4.91	0.51	0.00	1.01
2	11.1	81.57	34.20	1.61	0.00	4.90	0.35	0.00	1.00

## Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	81.9*
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1.000
Recommended Measurement Distance from Surface	1.4 mm

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

Contilleste No: EY.7881 New59

Bass & st 10



November 27, 2023

# Parameters of Probe: EX3DV4 - SN:7681

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>6</sup>	Depth <sup>Q</sup> (mm)	Unc (k = 2)
750	41.9	98.0	9.34	9.29	9.81	0.54	1.27	±12.0%
835	41.5	0.90	9.17	9.37	9.66	0.53	1.27	±12.0%
900	41.5	0.97	8.36	10.16	9.29	0.53	1.27	±12.0%
1750	40.1	1.37	8.29	8.71	8.90	0.32	1.27	±12.0%
1900	40.0	1.40	7.94	8,33	8.49	0.33	1.27	±12.0%
2450	39.2	1.80	7,46	7.89	8.02	0.32	1.27	±12.0%
2600	39.0	1.96	7.38	7.79	7.89	0.32	1.27	±12.0%
3300	38.2	2.71	6.78	7.12	7.25	0.37	1.27	±14.0%
3500	37.9	2.91	6.63	6.98	7.10	0.38	1.27	±14.0%
3700	37.7	3.12	6.59	6.94	7.05	0.38	1.27	±14.0%
3900	37.5	3.32	6.52	6.87	6.98	0.40	1.27	±14.0%
4100	37.2	3.53	6.38	6.72	6.81	0.39	1.27	±14.0%
4400	36.9	3.84	6.31	6.62	6.72	0.40	1.27	±14.0%
4600	36.7	4.04	6.29	6.61	6.69	0.39	1.27	±14.0%
4800	36.4	4.25	6.28	6.56	6.67	0.38	1.27	±14.0%
4950	36.3	4.40	6.00	6.26	6.38	0.44	1.36	±14.0%
5250	35.9	4.71	5.64	5.97	6.05	0.39	1.66	±14.0%
5600	35.5	5.07	4.79	4,98	5.09	0.48	1.67	±14.0%
5750	35.4	5.22	4.94	5.22	5.21	0.46	1.75	±14.0%
5830	35.3	5.27	4.89	5,16	5.19	0.44	1.78	±14.0%

G Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Fage 2), else it is restricted to ±50 MHz. The uncertainty is the BSS of the ComF uncertainty at estimation frequency and the uncertainty for the indicated frequency tand. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ComF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ComF assessed at 8 MHz is 4–9 MHz, and ComF assessed at 13 MHz is 9–19 MHz. Above 5 GHz theousery wildity can be extended to ±10 MHz. The probes are calibrated using tissue simulating liquide (TSI), then deviate for a and by less than ±5% from the target values (typically befor than ±3%) and are wild for TBL with deviations of up to ±10%. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1% for 0.7 - 3 GHz and 1.1% for 3 - 6 GHz.

<sup>III</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining daviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3-8 GHz at any distance larger than half the probe 5p diameter from the boundary.

Continues Mar CV 7004 Mar 00

the first states



#### November 27, 2023

## Parameters of Probe: EX3DV4 - SN:7681

Calibration Parameter Determined in Head Tissue Simulating Media

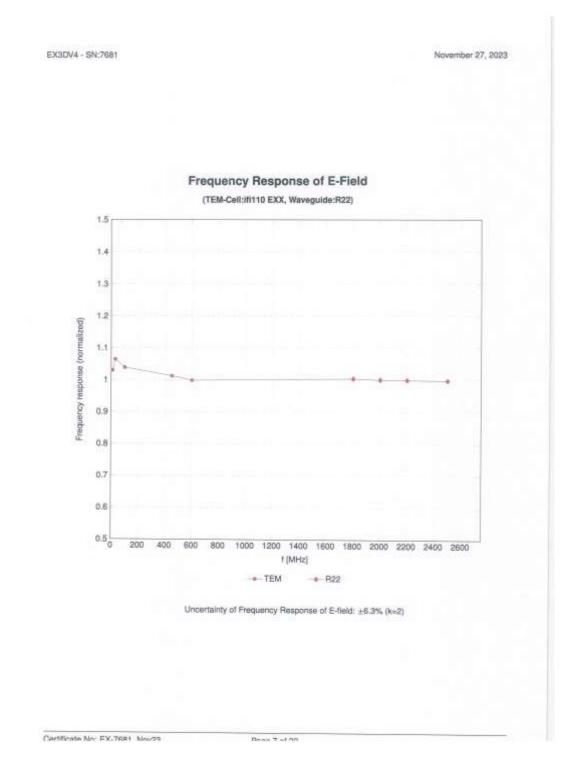
f (MHz) <sup>C</sup>	Relative Permittivity <sup>#</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
6500	34.5	6.07	5.56	5.72	5.93	0.20	2.00	±18.6%

<sup>C</sup> Frequency validity at 6.5 GHz is ~600/4700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration bequency and the uncertainty for the indicated frequency band.
<sup>T</sup> The problem are calibrated using fiscule imutating liquids (151L) that deviate for *c* and *o* by less than ±10% from the target values (typically before than ±6%), and are walk for TSL with ideviations of the second and the uncertainty at the second are second to the fisculated target values (typically before than ±6%).
<sup>Q</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary affect after compensation is always less than ±1% for frequencies below SGHz; below ±2% for frequencies between 6–10 GHz at any distance have the the model.

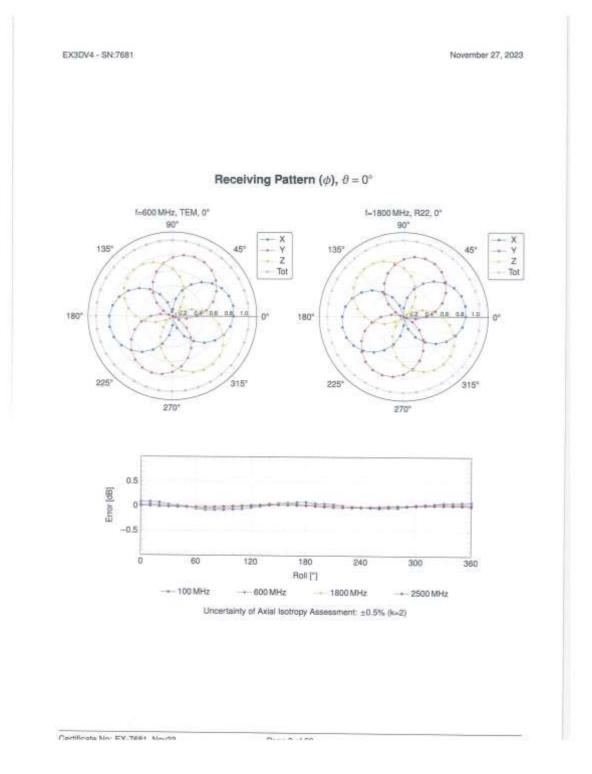
larger than half the probe tip diameter from the boundary.

Deas Cut 01

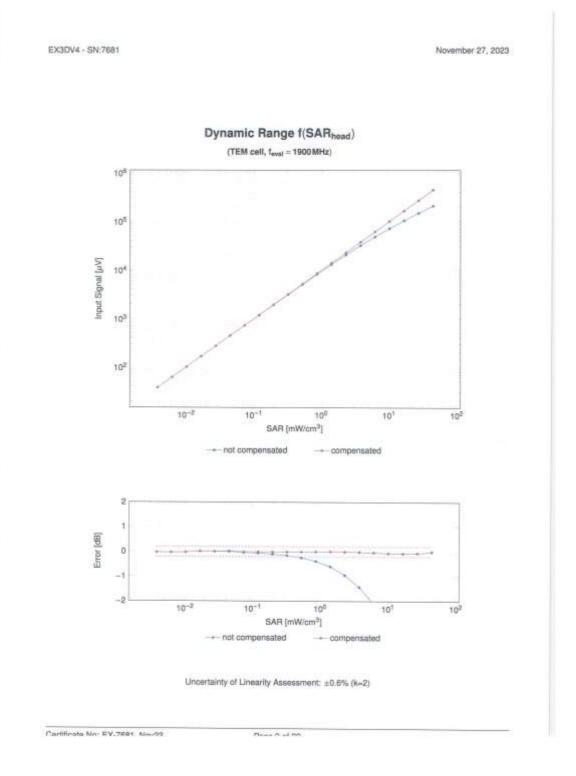




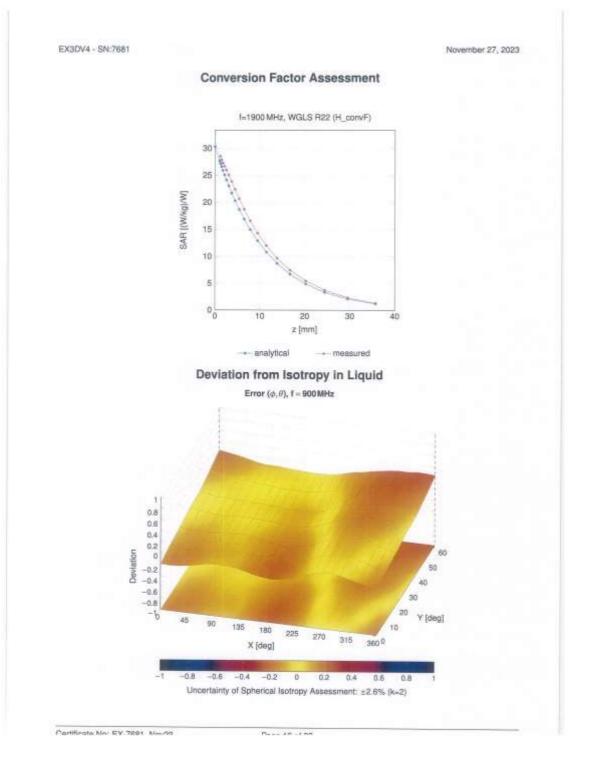














#### November 27, 2023

# Appendix: Modulation Calibration Parameters

10013         CAB           10021         DAC           10023         DAC           10024         DAC           10025         DAC           10026         DAC           10028         DAC           10028         DAC           10028         DAC           10029         DAC           10029         DAC           10029         DAC           10029         DAC           10029         DAC           10030         CAA           10031         CAA           10032         CAA           10033         CAA           10034         CAA           10035         CAA           10036         CAA           10037         CAA           10038         CAA           10049         CAA           10042         CAB           10043         CAA           10044         CAA           10045         CAB           10046         CAD           10047         CAB           10048         CAD           10049         CAB           100400<	CW			Unc <sup>E</sup> R = 2
10011         CAC           10012         CAB           10013         CAB           10021         CAB           10021         CAB           10022         DAC           10023         DAC           10024         DAC           10025         DAC           10026         DAC           10027         DAC           10028         DAC           10029         DAC           10029         DAC           10029         DAC           10029         DAC           10030         CAA           10031         CAA           10032         CAA           10033         CAA           10034         CAA           10035         CAA           10036         CAA           10037         CAB           10042         CAB           10043         CAA           10044         CAA           10045         CAA           10046         CAB           10047         CAB           10048         CAC           10049         CAD           100400<	211	CW	0.00	±4.7
10012         CAB           10012         CAB           10021         DAC           10021         DAC           10023         DAC           10024         DAC           10025         DAC           10026         DAC           10027         DAC           10028         DAC           10029         DAC           10029         DAC           10029         DAC           10020         CAA           10031         CAA           10032         CAA           10035         CAA           10036         CAA           10037         CAA           10038         CAA           10039         CAA           10039         CAA           10039         CAA           10040         CAA           10042         CAB           10043         CAA           10044         CAA           10045         CAD           10046         CAD           10048         CAA           10049         CAB           100400         CAD           10046<		Test	10,00	±9.6
10013         CAB           10021         DAC           10023         DAC           10024         DAC           10025         DAC           10026         DAC           10028         DAC           10028         DAC           10028         DAC           10029         DAC           10029         DAC           10029         DAC           10029         DAC           10029         DAC           10030         CAA           10031         CAA           10032         CAA           10033         CAA           10034         CAA           10035         CAA           10036         CAA           10037         CAA           10038         CAA           10049         CAA           10042         CAB           10043         CAA           10044         CAA           10045         CAB           10046         CAD           10047         CAB           10048         CAD           10049         CAB           100400<		WCDMA	2.91	±9.8
10021         DAC           10021         DAC           10024         DAC           10025         DAC           10025         DAC           10025         DAC           10025         DAC           10026         DAC           10027         DAC           10028         DAC           10029         DAC           10020         DAC           10021         DAC           10022         DAC           10032         CAA           10033         CAA           10034         CAA           10035         CAA           10036         CAA           10037         CAB           10044         CAA           10055         CAA           10056         CAC           10058         CAC           10059         CAC           10059         CAC           10050         CAB           10050         CAB           10050         CAD           10050         CAD           10050         CAB           10050         CAB           10050 </td <td></td> <td>WLAN</td> <td>1.87</td> <td>±9,6</td>		WLAN	1.87	±9,6
10023         DAC           10024         DAC           10025         DAC           10026         DAC           10027         DAC           10028         DAC           10029         DAC           10029         DAC           10029         DAC           10029         DAC           10030         CAA           10031         CAA           10032         CAA           10033         CAA           10035         CAA           10036         CAA           10037         CAA           10038         CAA           10039         CAA           10039         CAA           10042         CAB           10042         CAB           10044         CAA           10045         CAB           10046         CAD           10047         CAB           10048         CAD           10049         CAD           10040         CAD           10041         CAB           10042         CAB           10045         CAD           10046 </td <td></td> <td>WLAN</td> <td>9.46</td> <td>±9.5</td>		WLAN	9.46	±9.5
10024         DAC           10028         DAC           10028         DAC           10029         DAC           10027         DAC           10028         DAC           10029         DAC           10029         DAC           10029         DAC           10029         DAC           10029         DAC           10030         CAA           10031         CAA           10032         CAA           10033         CAA           10034         CAA           10035         CAA           10036         CAA           10037         CAA           10038         CAA           10039         CAA           10042         CAB           10043         CAA           10044         CAA           10045         CAB           10046         CAD           10047         CAB           10048         CAD           10049         CAD           10049         CAD           10049         CAD           100409         CAD           100409	DAC GSM-FDD (TDMA, GMSK)	GSM	B.38	±8.6
10025         DAC           10028         DAC           10027         DAC           10028         DAC           10029         DAC           10029         DAC           10029         DAC           10029         DAC           10029         DAC           10031         CAA           10032         CAA           10033         CAA           10034         CAA           10035         CAA           10036         CAA           10037         CAB           10038         CAA           10039         CAA           10030         CAB           10042         CAB           10043         CAA           10044         CAA           10045         CAA           10046         CAD           10047         CAB           10048         CAD           10049         CAD           10049         CAD           10049         CAD           10049         CAD           10049         CAD           10049         CAD           10049 </td <td>DAC GPRS-FDD (TDMA, GMSK, TN 0)</td> <td>GSM</td> <td>9.57</td> <td>±9.6</td>	DAC GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
10028         DAC           10029         DAC           10029         DAC           10029         DAC           10029         DAC           10029         DAC           10030         CAA           10031         CAA           10032         CAA           10033         CAA           10035         CAA           10035         CAA           10035         CAA           10035         CAA           10036         CAA           10037         CAA           10038         CAA           10039         CAB           10044         CAA           10045         CAA           10046         CAA           10058         CAB           10040         CAB           100410         CAB           10042         CAB           10043         CAB           10044         CAB           10045         CAD           10046         CAD           10047         CAB           10048         CAB           10049         CAB           10049<	DAC GPRS-FOD (TDMA, GMSK, TN 0-1)	GSM	6.86	±9.6
10027         DAC           10029         DAC           10029         DAC           10029         DAC           10029         DAC           10030         CAA           10032         CAA           10032         CAA           10032         CAA           10035         CAA           10036         CAA           10037         CAA           10038         CAA           10039         CAB           10039         CAB           10042         CAB           10042         CAB           10043         CAA           10044         CAA           10045         CAB           10046         CAD           10047         CAB           10048         CAD           10049         CAD           10040         CAD           10041         CAD           10042         CAD           10044         CAD           10045         CAD           10046         CAD           10047         CAB           10048         CAD           10049 </td <td>DAG EDGE-FDD (TDMA; 8PSK; TN 0)</td> <td>GSM</td> <td>12.62</td> <td>±9.8</td>	DAG EDGE-FDD (TDMA; 8PSK; TN 0)	GSM	12.62	±9.8
10086         DAC           10086         DAC           10081         CAA           10081         CAA           10082         CAA           10083         CAA           10084         CAA           10085         CAA           10086         CAA           10087         CAA           10088         CAA           10089         CAA           10080         CAA           10081         CAA           10082         CAA           10082         CAD           10082         CAD           10082         CAD           10082         CAD           10083         CAD           10084         CAD           10085         CAB           10086         CAD           10072 </td <td>DAG EDGE-FDD (TDMA, 6PSK, TN 0-1)</td> <td>GŚM</td> <td>9.65</td> <td>±8.6.</td>	DAG EDGE-FDD (TDMA, 6PSK, TN 0-1)	GŚM	9.65	±8.6.
10029         DAC           10030         CAA           10031         CAA           10032         CAA           10033         CAA           10034         CAA           10035         CAA           10036         CAA           10037         CAA           10038         CAA           10039         CAA           10030         CAA           10040         CAA           10040         CAA           10040         CAA           10050         CAB           10040         CAB           10040         CAD           10040         CAD           10040         CAD           10040         CAD           10040         CAB           10041         CAB           10042         CAB           10043         CAB           10044         CAB           10045 </td <td>DAC GPRS-FDD (TDMA, GMSK, TN 0-1-2)</td> <td>GSM</td> <td>4.80</td> <td>19.6</td>	DAC GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	19.6
10090         CAA           10091         CAA           10032         CAA           10033         CAA           10034         CAA           10035         CAA           10036         CAA           10035         CAA           10036         CAA           10037         CAA           10038         CAA           10039         CAA           10039         CAA           10039         CAA           10039         CAA           10039         CAA           10042         CAB           10042         CAA           10043         CAA           10044         CAA           10045         CAB           10050         LAC           10051         CAB           10062         CAD           10065         CAD           10066         CAD           10067         CAB           10072         CAB           10072         CAB           10072         CAB           10072         CAB           10074         CAB           10075 </td <td>DAC OPRS-FDD (TDMA, GMSK, TN 0-1-2-3)</td> <td>GSM</td> <td>3.68</td> <td>±9,8</td>	DAC OPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.68	±9,8
10031         CAA           10032         CAA           10033         CAA           10034         CAA           10035         CAA           10036         CAA           10037         CAA           10038         CAA           10039         CAA           10039         CAA           10039         CAA           10039         CAA           10039         CAA           10040         CAA           10040         CAA           10041         CAA           10042         CAB           10043         CAA           10044         CAA           10045         CAA           10046         CAD           10047         CAB           10048         CAD           10049         CAD           10049 </td <td></td> <td>0.5M</td> <td>7.78</td> <td>±9.6</td>		0.5M	7.78	±9.6
10032 CAA 10033 CAA 10034 CAA 10035 CAA 10035 CAA 10035 CAA 10037 CAA 10039 CAB 10039 CAB 10042 CAB 10042 CAB 10042 CAA 10048 CAA 10048 CAA 10058 CAA 10057 CAB 10075 CAB 10075 CAB 10077 CAB 10077 CAB 10077 CAB 10077 CAB 10077 CAB 10077 CAB 10077 CAB 10077 CAB	CAA IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10033         CAA           10034         CAA           10035         CAA           10035         CAA           10035         CAA           10035         CAA           10035         CAA           10036         CAA           10037         CAA           10038         CAA           10039         CAB           10042         CAB           10042         CAB           10045         CAA           10058         CAA           10050         CAB           10051         CAB           10052         CAD           10053         CAD           10054         CAD           10055         CAD           10056         CAD           10056         CAD           10056         CAD           10057         CAB           10057         CAB           10072         CAB           10072         CAB           10075         CAB           10076         CAB           10077         CAB           10078         CAB           10079 </td <td>CAA IEEE 802.15.1 Bluetooth (GFSK, DH3)</td> <td>Bluetooth.</td> <td>1.87</td> <td>±8.8</td>	CAA IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth.	1.87	±8.8
10034 CAA 10035 CAA 10035 CAA 10037 CAA 10037 CAA 10037 CAA 10039 CAA 10032 CAB 10042 CAB 10042 CAB 10042 CAB 10042 CAA 10045 CAA 10045 CAA 10059 CAB 10050 CAB 10060 CAB 10066 CAD 10066 CAD 10067 CAB 10072 CAB 10072 CAB 10075 CAB 10075 CAB 10075 CAB 10077 CAB		Bluetooth	1.16	19.8
10035         CAA           10038         CAA           10037         CAA           10038         CAA           10039         CAB           10042         CAB           10042         CAB           10042         CAB           10043         CAA           10044         CAA           10045         CAA           10046         CAA           10058         CAC           10049         CAA           10050         CAB           10040         CAB           10041         CAB           10042         CAD           10040         CAD           10041         CAD           10042         CAD           10045         CAD           10046         CAD           10046         CAD           10047         CAB           10047 </td <td>CAA IEEE 802.15.1 Bluetooth (PV4-DQPSK, DH1)</td> <td>Bluetooth</td> <td>7.74</td> <td>±8.6</td>	CAA IEEE 802.15.1 Bluetooth (PV4-DQPSK, DH1)	Bluetooth	7.74	±8.6
10036 CAA 10037 CAA 10039 CAA 10039 CAA 10039 CAB 10042 CAB 10044 CAA 10045 CAA 10045 CAA 10045 CAA 10059 CAB 10050 CAB 10050 CAB 10051 CAB 10061 CAB 10065 CAD 10066 CAD 10066 CAD 10066 CAD 10066 CAD 10066 CAD 10066 CAD 10066 CAD 10066 CAD 10066 CAD 10067 CAB 10072 CAB 10075 CAB	CAA IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetoath	4.53	±9.8
10137 GAA 10038 GAA 10039 GAB 10042 GAB 10042 GAB 10042 GAA 10045 GAA 10045 GAA 10045 GAA 10059 GAA 10059 GAB 10050 GAB 10052 GAB 10062 GAD 10065 GAD 10065 GAD 10065 GAD 10066 GAD 10066 GAD 10066 GAD 10066 GAD 10067 GAB 10072 GAB 10072 GAB 10072 GAB 10072 GAB 10072 GAB 10075 GAB	CAA IEEE 802.15.1 Bluetooth (Pl/4-DQPSK, DH5)	Bluetooth	3.63	±9.6
10038 CAA 10039 CAB 10042 CAB 10042 CAA 10042 CAA 10043 CAA 10045 CAA 10058 CAA 10058 CAA 10058 CAA 10058 CAB 10051 CAB 10052 CAB 10052 CAD 10058 CAD 10058 CAD 10058 CAD 10058 CAD 10058 CAD 10059 CAB 10057 CAB 10072 CAB 10072 CAB 10075 CAB 10075 CAB 10075 CAB 10075 CAB 10077 CAB 10078 CAB 10077 CAB 10078 CAB 10077 CAB 10078 CAB 10077 CAB	CAA IEEE 802.15.1 Biuelooth (8-DPSK, DH1)	Bluetooth	8.01	29.6
10030 CA8 10042 CA8 10044 CAA 10044 CAA 10048 CAA 10048 CAA 10058 CAA 10058 CAB 10058 CAB 10050 CAB 10060 CAB 10060 CAD 10066 CAD 10066 CAD 10066 CAD 10066 CAD 10066 CAD 10067 CAB 10077 CAB		Bluetooth	4.77	+9.6
10042         CAB           10044         CAA           10045         CAA           10046         CAA           10059         CAA           10058         CAA           10059         CAB           10059         CAB           10050         CAB           10051         CAB           10052         CAB           10054         CAB           10055         CAB           10061         CAB           10062         CAD           10065         CAD           10066         CAD           10067         CAB           10072         CAB           10072         CAB           10072         CAB           10072         CAB           10072         CAB           10075         CAB           10076         CAB           10077         CAB           10078         CAB           10079         CAC           10080         CAD           10081         CAB           10082         CAB           10083         CAB           1084 <td></td> <td>Bluetoath</td> <td>4.10</td> <td>3.9.1</td>		Bluetoath	4.10	3.9.1
10044 CAA 10048 CAA 10048 CAA 10056 CAA 10056 CAA 10058 CAA 10059 CAB 10059 CAB 10051 CAB 10060 CAO 10060 CAO 10066 CAO 10066 CAO 10066 CAO 10066 CAO 10066 CAO 10066 CAO 10067 CAB 10072 CAB 10072 CAB 10075 CAB 10075 CAB 10075 CAB 10075 CAB 10075 CAB 10075 CAB 10075 CAB 10076 CAB 10077 CAB		CDMA2000	4.87	29.6
10048 CAA 10048 CAA 10056 CAA 10056 CAA 10058 CAB 10050 CAB 10050 CAB 10060 CAB 10060 CAB 10061 CAD 10065 CAD 10065 CAD 10066 CAD 10066 CAD 10066 CAD 10067 CAB 10071 CAB 10072 CAB 10072 CAB 10072 CAB 10075 CAB 10075 CAB 10075 CAB 10077 CAB	The second s	AMPS	7.78	29.0
10049         CAA           10058         CAA           10058         CAA           10059         CAB           10059         CAB           10059         CAB           10050         CAB           10050         CAB           10061         CAB           10062         CAD           10063         CAD           10064         CAO           10065         CAD           10066         CAD           10067         CAB           10072         CAB           10072         CAB           10072         CAB           10072         CAB           10075         CAB           10076         CAB           10077         CAB           10078         CAB           10079         CAB           10080         CAD           10081         CAB           10082         CAB           10083         CAB           10084         CAB           10085         CAC           10086         CAC           10087         CAC           10088 </td <td>A CONTRACT OF A CONTRACT OF A</td> <td>AMPS</td> <td>0.00</td> <td>±9.6</td>	A CONTRACT OF A	AMPS	0.00	±9.6
10056 CAA 10058 CAC 10059 CAB 10060 CAB 10060 CAB 10061 CAB 10062 CAD 10064 CAD 10064 CAD 10066 CAD 10066 CAD 10066 CAD 10068 CAD 10068 CAD 10076 CAB 10072 CAB 10072 CAB 10076 CAB 10076 CAB 10077 CAB		DECT	13.80	±9.6
10058         DAC           10059         CAB           10060         CAB           10061         CAB           10062         CAO           10063         CAD           10064         CAO           10065         CAD           10066         CAD           10066         CAD           10067         CAB           10068         CAD           10069         CAD           10067         CAB           10072         CAB           10075         CAB           10076         CAB           10077         CAB           10078         CAB           10076         CAB           10077         CAB           10076         CAB           10077         CAB           10076         CAB           10077         CAB           10080         DAC           10081         CAB           10082         CAC           10084         CAC           10085         CAC           10086         CAC           10087         CAC           1088 <td></td> <td>DECT</td> <td>10.79</td> <td>±9.6</td>		DECT	10.79	±9.6
10059 CAB 10060 CAB 10061 CAB 10062 CAD 10062 CAD 10062 CAD 10065 CAD 10066 CAD 10066 CAD 10066 CAD 10067 CAB 10072 CAB 10072 CAB 10072 CAB 10072 CAB 10072 CAB 10072 CAB 10075 CAB	CAA UMTS-TDD (TD-SCDMA, 1.28 Mope)	TD-SCOMA	11.01	10.6
10080 CA8 10081 CA8 10082 CA0 10083 CA0 10083 CA0 10086 CA0 10086 CA0 10087 CA0 10087 CA0 10088 CA0 10087 CA8 10072 CA8 10072 CA8 10075 CA8 10075 CA8 10075 CA8 10076 CA8 10076 CA8 10076 CA8 10077 CA8 10077 CA8 10077 CA8 10077 CA8 10077 CA8 10077 CA8 10077 CA8 10088 CA0 10097 CAC	DAG EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.62	±9.6
10061 GAB 10062 GAO 10068 GAD 10068 GAD 10066 GAD 10066 GAD 10066 GAD 10067 GAB 10072 GAB 10072 GAB 10072 GAB 10075 GAB 10075 GAB 10075 GAB 10076 GAB 10077 GAB 10077 GAB 10077 GAB 10077 GAB 10077 GAB 10077 GAB 10077 GAB 10077 GAB 10086 GAD 10086 GAB	CAB IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	19.8
10062 CAD 10063 CAD 10064 CAD 10065 CAD 10065 CAD 10067 CAD 10067 CAD 10067 CAB 10072 CAB 10072 CAB 10072 CAB 10072 CAB 10075 CAB 10082 CAB 10082 CAB 10082 CAB	CA8 IEEE 802.11b WIFI 2.4 GHz (D6SS, 5.5 Mbps)	WLAN	2.83	±9.6
10068 GAD 10066 GAD 10066 CAD 10066 CAD 10068 CAD 10068 CAD 10068 CAD 10068 CAD 10068 CAD 10078 CAB 10073 CAB 10075 CAB 10075 CAB 10077 CAB 10077 CAB 10077 CAB 10077 CAB 10078 CAB 10078 CAB 10078 CAB 10082 CAB 10082 CAB 10082 CAB 10082 CAC 10088 DAC 10088 CAC 10088 CAC 10088 CAB 10081 CAC	CAB IEEE 402.11b WIFI 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.90	±9.6
10064 CAO 10065 CAD 10066 CAO 10067 CAD 10069 CAD 10069 CAD 10069 CAD 10070 CAB 10072 CAB 10072 CAB 10075 CAB 10075 CAB 10075 CAB 10076 CAB 10076 CAB 10077 CAB 10077 CAB 10077 CAB 10077 CAB 10077 CAB 10082 CAD 10082 CAD 10082 CAD 10082 CAC	CAD IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10065 CAD 10067 CAD 10067 CAD 10067 CAD 10067 CAD 10071 CAB 10072 CAB 10073 CAB 10073 CAB 10074 CAB 10075 CAB 10075 CAB 10075 CAB 10077 CAB 10077 CAB 10077 CAB 10075 CAB 10077 CAB 10075 CAB 10077 CAB 10075 CAB 10077 CAB 10075 CAB 10077 CAC 10077 CAC 10077 CAC 10077 CAC 10077 CAC	CAD IEEE 862.11a/s WFI 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	19.0
10066 CAD 10067 CAD 10068 CAD 10068 CAD 10068 CAD 10073 CAB 10073 CAB 10075 CAB 10075 CAB 10075 CAB 10075 CAB 10077 CAB 10075 CAC 10076 CAC 10076 CAC 10076 CAC 10076 CAC	CAO IEEE 802.11a/h WIFI 5 BHz (OFDM, 12 Mops)	WLAN	9.09	±9.6
10067 CAD 10068 CAD 10088 CAD 10088 CAD 10075 CAB 10075 CAB 10075 CAB 10076 CAB 10076 CAB 10076 CAB 10076 CAB 10077 CAB 10077 CAB 10087 CAC 10088 CAD 10089 CAC 10088 CAC 10088 CAC 10088 CAC	CAD IEEE 802.11a/t WIFI 5 GHz (OFOM, 18 Mbps)	WLAN	9.00	±9.8
10068 CAD 10098 CAD 10071 CAB 10072 CAB 10072 CAB 10073 CAB 10073 CAB 10074 CAB 10075 CAB 10075 CAB 10075 CAB 10077 CAB 10077 CAB 10081 CAB 10082 CAC 10088 CAC 10088 CAC 10088 CAC 10088 CAC		WLAN	9.36	19.6
10009 CAD 10071 CAB 10072 CAB 10073 CAB 10075 CAB 10075 CAB 10076 CAB 10076 CAB 10077 CAB 10077 CAB 10082 CAB 10082 CAB 10082 CAC 10088 DAC 10098 CAC 10098 CAC 10098 CAC		WLAN	10.12	±9.6
18071 CAB 10072 CAB 10073 CAB 10074 CAB 10075 CAB 10075 CAB 10075 CAB 10075 CAB 10081 CAB 10081 CAB 10080 DAC 10080 DAC 10088 CAC 10088 CAC 10088 CAC		WLAN	10.24	19.6
10072 CAB 10073 CAB 10075 CAB 10076 CAB 10076 CAB 10076 CAB 10077 CAB 10077 CAB 10087 CAB 10082 CAD 10088 CAD 10080 CAC 10088 CAC 10088 CAC 10088 CAC	CAD IEEE 802.11a/h WIFI 5 GHz (OFOM, 54 Mbps)	WLAN	10.56	±9.6
10073 CAB 10074 CAB 10075 CAB 10075 CAB 10075 CAB 10077 CAB 10087 CAB 10087 CAB 10080 CAC 10080 CAC 10080 CAC 10080 CAC		WLAN	9.83	19.6
10074 CAB 10075 CAB 10075 CAB 10077 CAB 10087 CAB 10082 CAB 10082 CAB 10080 DAC 10080 CAC 10080 CAC 10080 CAC 10080 CAC 10080 CAC		WLAN	9.62	±9.6
10074 CAB 10075 CAB 10076 CAB 10077 CAB 10077 CAB 10082 CAB 10082 CAB 10080 DAC 10080 CAC 10080 CAC 10080 CAC 10080 CAC 10080 CAC	CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WEAN	9.94	:9.6
10078 CAB 10077 CAB 10081 CAB 10082 CAB 10082 CAB 10090 DAC 10098 CAC 10098 CAC 10098 DAC 10098 DAC 10098 DAC	CAB IEEE 002.11g WIFI 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	69.0
10078 CAB 10077 CAB 10081 CAB 10082 CAB 10082 CAB 10090 DAC 10097 CAC 10098 CAC 10098 CAC 10098 DAC 10098 DAC 10098 DAC	the second s	WEAN	10.77	19.6
10081 CAB 10082 CAB 10090 DAC 10097 CAC 10098 CAC 10098 DAC 10098 DAC 10100 CAF 10101 CAF	DAB IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbp6)	WLAN	10.94	19.6
10081 CAB 10082 CAB 10090 DAC 10097 CAC 10098 CAC 10098 DAC 10098 DAC 10100 CAF 10101 CAF	B	WLAN	11.00	±0.6
10090 DAC 10097 CAC 10098 CAC 10098 DAC 10098 DAC 10100 CAF 10101 CAF	CAB CDMA2000 (1xHTT, RC3)	CDMA2000	3.97	±9.6
10097 CAC 10098 CAC 10098 DAC 10100 CAF 10101 CAF		AMPS	4.77	±9.6
10098 CAC 10098 DAC 10100 CAF 10101 CAF		GSM	6.96	19.6
10099 DAC 10100 CAF 10101 CAF	CAC UMTS-FOD (HSDBA)	WCDMA	3.98	±8.6
10100 CAF 10101 CAF		WCDMA	3.96	±9.6
t0101 CAF		GSM	9.55	+9.6
		LTE-FDD	5.67	19.6
10102 CAF		LTE FOD	6.42	±9.6
		LTE-FOD	5.60	19.6
	and the second	LTE-TDD	9.29	±8.6
	The second s	LTE-TDD	9.67	19.6
		LTE-TOD	10.01	±9.6
		LTE-FDD	5.80	19.6
10109 CAH	AH LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	8.43	±0.0
		LTE-FDD	6.75	#9.6
10111 CAH	AH LTE-FOD ISC-FDMA, 100% RB, 5MHz, 16-QAM	LTE-FOD	6.44	+9.6





November 27, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Line <sup>tt</sup> k = 2
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
10:113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)	LTE-FDD	0.62	±9.6
10114	CAD	IEEE 802.11n (HT Groonfield, 13.5 Mbps, BPSK)	WLAN	8.10	£9.6
10115	CAD	IEEE 802 11n (HT Greenfield, 81 Mtcs. 16-QAM)	WLAN	8.46	±9.6
10115	CAD	IEEE 602.11n (HT Greenfield, 135 Mbps, 64-QAM)	WEAN	8.15	±9.8
10117	CAD	IEEE 802.11n (HT Mixed, 13.5Mbps, 8PSK)	WEAN	8.07	±9.6
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-GAM)	WLAN	8.59	±0.8
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.8
10140	CAF	LTE-FDD (SC-FDMA, 100% R8, 15 MHz, 16-GAM)	LTE-FDD	6.49	10.0
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-GAM)	LTE-FDD	6.53	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RE, 3MHz, QPSK)	LTE-FDD	5.73	10.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	+9.6
10144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±0.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, OPSK)	LTE-FD0	5.76	and the second of the second second
10146	CAG	LTE-FDD (SC-FDMA, 100% R8, 1.4 MHz, 18-QAM)	LTE-FDD	6.41	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 54-QAM)	LTE-F00	and the second sec	±9,6
10148	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 18-QAM)		6.72	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDO	6.42	±9.6
10151	CAH	LTE TOD (SC FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	6.60	±8.6
10152	CAH	LTE-TOD (SC-FDMA, 50% HB, 20 MHz, QPSK)	LTE-TOD	9.28	38.6
10153	CAH		LTE-TOD	9.92	±9.6
10153	CAH	LTE TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10154	CAH	LTE-FOD (SC-FDMA, 50% RB, 10 MHz, OPSK) LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 15-QAM)	LTE-FDD	5.75	39.6
10156	CAH		LTE-FDD	6.43	±9.6
10156		LTE-FDD (SC-FDMA, 50% RB, 6 MHz, QPSK)	LTE-FDD	5.79	±0.6
	CAH	LTE-FOD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6,69	29.6
10158	CAH	LTE FOD (SC FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 84-QAM)	LTE-FDD	8.56	±9.6
10160	CAF	LTE-FDD (SC-FOMA, 50% RB, 15MHz, QPSK)	LTE-FDD	5.82	1.9.6
10161	CAF	LTE-FDD (SC-FOMA, 50% RB, 15 MHz, 16 QAM)	LTE-FDD	6.43	±9.6
10162	CAF	LTE-FOD (SC-FOMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10166	CAG	LTE FOD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5,46	±9.6
10167	CAG	LTE-FDD (SC-FOMA, 55% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6,21	±9.6
10 168	CAG	LTE-FDD (SC-FOMA, 50% HI), 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9,0
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20MHz, QPSK)	LTE-FDD	5.73	±9.8
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20MHz, 16-QAM)	LTE-FDD	6.52	±0.6
10171	AAF	LTE-FDD (SC-FDMA, 1 RB; 20MHz; 64-QAM)	LTE-FDD	6.49	:19.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20MHz, GPSK)	LTE-TOO	9.21	+9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDO	9.48	19.8
10174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20MHz, 64-QAM)	LTE-TDO	10.25	±9.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	29.6
10176	CAH	LTE-FDD (SC-FDIMA, 1 RB, 10 MHz, 16-QAM)	LTE-FOD	6.52	19.6
10177	CAJ	LTE-FDD (SC-FDMA, 1 R8, 5MHz, QPSK)	LTE-FDD	5,73	19.6
10178	CAH	LTE-F00 (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10179	CAH	LTE-FOD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	19.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	19.6
10181	CAF	LTE-FOD (SC-FDMA, 1 RB, 15 MHz, OPSK)	LTE-FDD	5.72	19.6
10182	CAF	LTE-FDD (SC-FOMA, 1 RB, 15 MHz, 16 QAM)	LTE-FDD	6.52	19.6
10183	AAE	LTE-FOD (SC-FOMA, 1 RB, 15MHz, 64-QAM)	LTE-FDD	6.50	19.8
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDO	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	19.5
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)	LTE-FDD	6.50	±0.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	19.6
10188	CAG	LTE FDD (SC-FDMA, 1 RB, 1.4 MHz, 16 QAM)	LTE-FDD	8.52	19.6
10189	AAG	LTE-FOD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.60	
10193	GAD	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WEAN	8.09	29.6
10194	CAD.	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.09	±9.6
10195	CAD	IEEE 802.11n (HT Greenfield, 65 Mbce, 64-QAM)	WLAN	8.21	19.6
10190	CAD	IEEE 802.11n (HT Mixed, 6.5 Moos, BPSK)	WLAN	8.21	
10197	CAD	IEEE 802.11n (HT Mixed, 39 Mbps, 18-QAM)	WLAN	and the second sec	±9.8
10198	CAD	IEEE 802 11n (HT Moved, 65 Mbps, 64-QAM)	WLAN	8.13	±9.6
10219	CAD	IEEE 802 11n (HT Mixed, 7.2 Mbps, BPSK)		8.97	±8.6
10220	CAD	IEEE 802 11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.03	±9.6
10221	CAD	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN .	8,13	±9.6
10222	CAD	IEEE 002.11n (HT Mixed, 15 Maps, BPSK)	WLAN	8,27	±9.6
10223	CAD	IEEE 802.11n (HT Mixed, 50 Mbps, 16-QAM)	WLAN	8.06	19.6
10224	CAD	IEEE 802.11n (HT Mixed, 50 Mbps, 16-QAM)	WLAN	8.48	±9.6
T OF BUILDING T	-	Here and the full mental iso welfer 04-79400	WLAN	8.08	0.02

Certificate No: EX.7681 Nov29

Been +D +F PD



November 27, 2023

UID	Rev	Communication System Name	Group	PAB (dB)	
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDO	8.49	±9,8
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.28	±9.6
10228	CAC	LTE TOD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6
10229	CAE	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±8.0
10230	CAL	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	:9.6
10231	CAE	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.0
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-TDD	9.48	19.6
10233	CAH	LTE-TOD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-TOD	10.25	±9.8
10234	CAH	LTE-TDD (SC-FDMA, † RB, 5MHz, QPSK)	LTE-TOD	9.21	29.6
10235	CAH	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TOD	9.48	19.6
10236	CAH	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TOD	10.25	:9.6
10237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	3.9.6
10238	CAG	LTE-TOD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TOD	9.48	19.6
10:239	CAG	LTE-TOD (SC-FDMA, 1 RB, 15 MHz, 64-CAM)	LTE-TDD	10.25	28.6
10240	CAG	LTE-TOD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TOD	9.21	±9.6
10241	CAC	LTE-TOD (SC-FDMA, 50% RB, 1 4 MHz, 16 QAM)	LTE-TOD	9.82	:9.6
10242	CAG	LTE-T00 (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	19.0
10243	CAC	LTE-TDD (SC-FDMA, 50% R8, 1.4 MHz, GPSK)	LTE-TDD	9.46	19.6
10244	CAE	LTE TOD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	20.0
10245	CAE	LTE-TOD (SC-FDMA, 50% RB, 3 MHz, 54-QAM)	LTE-TDD	10.06	±9.6
10246	CAE	LTE-TOD ISC-FDMA, 50% RB, 3 MHz, QPSKI	LTEITDD	9.30	20.0
10247	CAH	LTE-TOD ISC-FOMA, 50% RB, 5 MHz, 16-QAMI	LTE-TOD	9.91	±9.6
10248	CAH	LTE TOD (SC-FOMA, 50% RB, 5MHz, 64-QAM)	LTE-TDD	10.09	19.0
10249	CAH	LTE-TOD (SC-FOMA, S0% RB, 5 MHz, OPSK)	LTE-TDD	9.29	and the second se
10250	CAH	LTE-TOD (SC-FDMA, 50% RB, 10MHz, 16-QAM)	LTE-TOD	9.81	±9.6
16261	CAH	LTE-TOD (SC-FOMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	
10252	CAH	LTE-TOD (SC-FOMA, 50% RB, 10 MHz, QPSK)			±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 18-QAM)	LTE-TDD	9.24	±9.6
10254	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64 QAM)	LTE-TDD	8.90	±9.5
10285	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, GP GMB)		10.14	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 15 QAM)	LTE-TDD	9.20	\$9.8
10257	CAC	LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 19 CAM)	LTE-TOD	2.96	±9.5
10258	CAC	LTE-TDD (SC-FDMA, 100% HB, 1.4 MHz, DR-QAM)	LTE-TDO	10.08	±9.6
10250	CAE	LTE-TOD (SC-FDMA, 100% RB, 3MHz, 16-QAM)	LTE-TOD	9.34	±9.0
10260	CAF		LTE-TOD	9.98	±9.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TOD	9.97	土9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TOD	9.24	:10.6
10263	CAH	LTE-TOD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TOD	9.83	10.6
10264	CAH	LTE-TOD (SC-FDMA, 100% HB, 5MHz, 84-GAM)	LTE-TDD	10.18	±8.6
10265	CAH	LTE-TOD (SC-FDMA, 100% RB, 10MHz, 0F0A)	LTE-TDD	9,23	±9.6
10266	CAH		LTE-TDD	9:82	29.6
10267	CAH	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	<b>主型</b> 前
		LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.90	±9.6
10.268	GAG	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, 18-QAM)	LTE-TDD	10,06	±9.0
10270	CAG	LTE-TOD (SC-FDMA, 100% R8, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6
10270	CAG	LTE-TOD (SC-FOMA, 100% RB, 15 MHz, QPSK)	LTE-TDO	9.58	±9.0
A CONTRACTOR AND		UMTS FOD (HSUPA, Subtest 5, 30PP Reid, 10)	WCDMA	4.87	±0.6
10275	CAD	UMT5-F00 (HSUPA, Subtest 5, 3GPP Rai8.4)	WCDMA	3.96	±9.6
	CAA	PHS (GPSK)	PHS	11.81	±9.6
10278	CAA	PHS (QPSK, BW 864 MHz, Rolloff 0.5)	PHS	11.81	3.92
10279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rale	COMA2000	3.91	19.8
10291	AAB	COMA2000, RC3, SO55, Full Relie	CDMA2000	3.46	±8.6
10292	AAB	COMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	19.6
10293	AAB	CDMA2000, RC3, SO3, Full Rate	COMA2000	3.50	$\pm 8.0$
10295	AAB	COMA2000, RC1, SO3, 1/8th Rele 25 h.	CDMA2000	12.49	#9.8
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±0.0
10.298	AAE	LTE-FOD (SC FOMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	28.6
10.299	AAE	LTE-FDD (SC-FDMA, 50% AB, 3 MHz, 16 QAM)	LTE-FDD	6.39	19.6
10300	AAE	LTE-FOD (SC-FDMA, 55% RB, 3MHz, 84-QAM)	LTE-FDD	8.60	±9.6
10301	AAA.	IEEE 802.16# WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WIMAX	12.03	1.9.6
10302	AAA	IEEE 802 16e WIMAX (29:18, 5ms, 10 MHz, OPSK, PUSC, 3 CTRL symbols)	WIMAX	12.57	±0.6
10303	AAA .	IEEE 802.15p WIMAX (31:15, 5ms. 10 MHz, 64QAM, PUSC)	WMAX	12.52	19.8
10304	AAA.	IEEE 802.18e WIMAX (29:18, 5ms, 10 MHz, 64QAM, PUSC)	WIMAX	11.86	±9.0
10305	AAA	IEEE 802.16e WIMAX (31:15, 10 ms, 10 MHz, 64GAM, PUSC, 15 symbols)	WMAX	15.24	19.6
10306	AAA.	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WMAX	14.67	19.6

Certificate No. EX.7681 Nov.93

0nn=15=190



#### November 27, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10307	AAA.	IEEE 802 16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	±9.6
0308	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WIMAX	14,46	±9.6
10309	AAA:	IEEE 802 16e WIMAX (29:18, 10 ms, 10 MHz, 16GAM, AMC 2x3, 18 symbols)	WIMAX	14.58	19.6
10310	AAA	IEEE 802.16e WMAX (29:10, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WIMAX	14.57	±9,6
10011	AAE	LTE-FDD (SC-FDMA, 100% RB, 15MHz, QPSK)	LTE-FDD	6.06	±9.6.
10313	AAA	DEN 1:3	IDEN	10.51	±9.6
10314	AAA	IDEN 1:8	IDEN	13.48	3,9,6
10315	AAB	IEEE 802.11b WIFi 2.4 GHz (DSSS, 1 Mbps, 98pc duty cycle)	WLAN.	1.71	主9.0
10316	AAB	IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	B.36	3.85
10317	AAE	IEEE 802.11a WIFI 5 GHz (OFOM, 6 Mope, 96pc duty cycle)	WLAN	8.36	±9.6
10.352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	28.6
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	2.82	29.6
10355	AAA	Pulse Waveform (200Hz, 80%)	Generio	0.97	0.0
10387	AAA	QPSK Waveform, 1 MHz	Generic	5,10	19.6
10358	AAA	QPSK Waveform, 10 MHz	Generic	5.20	19.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic:	6.27	s9.6
10399	AAA	64-CAM Waveform, 40 MHz	Generic	5.27	10.6
10400	AAE	IEEE 802 11 ac WIF (20 MHz, 64-QAM, 95pc duty cycle)	WEAN	8,37	3.9.6
10401	AAE	IEEE 802.11ac WIFI (40 MHz, 64-QAM, 99pc duty cycle) IEEE 802.11ac WIFI (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	19.6
10.402	AAB	CDMA2000 (1=EV-DO, Rev. 0)	WLAN	8,50	6.9.6
10404	AAB	COMA2000 (18EV-DC, Hay, 0) COMA2000 (18EV-DC, Rey, A)	C0MA2000	3.76	10.0
10400	AAB	COMA2000 (TEC+DC, HeV, A) COMA2000, RC3, SC32, SCH0, Full Rate	CDMA2000	3.77	19.6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subhame-2,3,4,7,8,9, Subhame Confu-4)	CDMA2000 LTE-TOD	5.22	1.9.6
10414	AAA	WLAN CCDF, 54-QAM, 40 MHz	Generic Generic	7,82 8.54	±9.6
10415	AAA	IEEE 802.11b WFI 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.8
10.418	AAA	IEEE 802.11g WFI 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.21	±9.6 +9.6
10417	AAC	IEEE 802.11a/h WIFI 5 GHz (OFOM, 6 Mbps, 99po duty cycle)	WLAN	8.23	19.6
10418	AAA	IEEE 802 11g WFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	+9.6
10418	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 98pc duty cycle, Short preambule)	WLAN	8.19	±0/0 ±9.8
10422	AAC	IEEE 802.11n (HT Greenheld, 7.2 Mbps, BPSK)	WLAN	8.32	±9.6
10425	AAC	IEIEE 002.11n (HT Greenfield, 43.3Mbcs, 18-QAM)	WLAN	8.47	±9,0 ±9,8
10424	AAC	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6
10425	AAC	IEEE 802.11n (HT Greenfield, 15Mbps, BPSK)	WLAN	8.41	29.6
10426	AAC.	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	=9.6
10427	AAC.	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-GAM)	WLAN	8.41	:9.6
10430	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FOD	8.28	0.0
10431	AAE	LTE-FOD (OFDMA, 10MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
10432	AAD	LTE-FOD (OFDMA, 15MHz, E-TM 3.1)	LTE-FDD	8.34	8.0.6
10433	AAD	LTE-FOD (OFDMA, 20MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10.434	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	1.9.8
10435	AAG	LTE-TOD (SC-FDMA, 1 R8, 20 MHz, QPSK, UL Subhame=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5MHz, E-TM 3.1, Cloping 44%)	LTE-FDD	7.56	±9.8
10-448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.fi
10449	AAD	LTE-FDD (OFDMA, 16 MHz, E-TM 3.1, Cliphy 44%)	LTE-FDD	7.51	±9.8
10458	AAD	LTE-FDD (DFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9;8
10481	AAB	W-COMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9:8
10455	AAE	Validation (Square, 10ma, 1 ma)	Test	10.00	±9,6
10456	AAC	IEEE 802.11ac WFI (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.8
1045/	AAA	UMTS-FD0 (DC-HSDPA)	WCDMA	6.62	±8.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	COMA2000	6.65	±9.6
10459	AAA	COMA2000 (1xEV-DD, Rex. B, 3 gamera)	CDMA2000	8.25	±9.6
10460	AAC	UMTS-FDD (WCDMA, AMR)	WCDMA.	2.39	±9.6
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UI, Subtrame-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UI, Sobtrame-2,3,4,7,8,9)	LTE-TDD	7.82	±8.6
10463	AAC	LTE-TDD (SC-FDMA, 1 R8, 1.4 MHz, 14-GAM, UL Sobtame-2,3.4,7,8.9) LTE-TDD (SC-FDMA, 1 R8, 1.4 MHz, 54-GAM, UL Subteme-2,3.4,7,8.9)	LTE-TDD	8.30	±9.6
10464	AAD	LTE-TOD (SC-FDMA, 1 R8, 1 AMH2, Se GAM, UL Subtame-2,3,4,7,8,9) LTE-TOD (SC-FDMA, 1 R8, 3 MH2, QPSK, UL Subtame-2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10405	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.42	±9.6
10466	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subtramera2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10467	AAG	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9) LTE-TOD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDO	0.57	±9.6
10468	AAG	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 18-DAM, UL Subhame-2,3,4,7,8,9)	LTE-TOO	7.82	±9.6
10469	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16 GMA, UL Subtrame-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-GAM, UL Subtrame-2,3,4,7,8,9)	LTE-TOO	8.32	±9;6
10470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOO	8.66	±9.6
10471	AAG	LTE-TDD (SC-FDMA, 1 RB, 10MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TOD	7.82	±8.6
	111111	the second	LTE-TOD	8.32	3.6±

Certificate No. EV.7881 Mou/99

Dene 11 -Enn



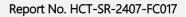


November 27, 2023

UID	Rev	Communication System Name	Group	the second se	Uno <sup>E</sup> k = 2
10472	AAG	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDO	8.57	±9.6
10.473	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.82	#8.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 18-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	3.8±
10475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.57	±8.8
10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	:19.6
10478	AAG	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.57	±9.6
10479	AAC	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe+2,3,4,7,0,9)	LTE-TOD	7.74	±9.6
10480	AAC	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Bublisme+2,3.4,7,8,9)	LTE-TOD	8.18	±9.8
10481	AAC	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 84-QAM, UL Subhame=2,3.4,7.8.9)	LTE-TOD	8.45	±9.6
10.482	AAD	LTE-TOD (SC-FOMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7,71	±9.6
10.483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subhame=2,3,4,7,8,9)	LTE-TDD	8.39	±9.6
10.484	AAD	LTE-TDD (SC-FOMA, 50% RB, 3 MHz, 64-QAM, UL Subframe+2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10485	AAG	LTE-TOD (SC-FOMA, 50% RB, 5MHz, OPSK, UL Subhame-2,3,4,7,8,8)	LTE-TDD	7,59	±9.6
10.486	AAG	LTE-TOD (SC-FOMA, 50% RB, 5 MHz, 19-QAM, UL Subhame+2,3,4,7,8,9)	LTE-TDD	8.38	±9.6
10.487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subkame=2,3,4,7,8,9)	LTE-TDD	8,60	±9.6
10488	AAG	LTE-TOD (SC-FOMA, 50% RB, 10 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	7:70	±9/6
10.489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10490	AAG	LTE-TOD (SC FOMA, 50% RB, 10MHz, 54-GAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10491	AAF	LTE-TOD (SC-FOMA, 50% RB, 15MHz, OPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.8
10492	AAF	LTE-TOD (SC-FOMA, 50% RB, 15 MHz, 16 GAM, UL Subtrame=2,8,4,7,8,9)	LTE-TDD	8.41	±9.8
10493	AAF	LTE-TOD (SC-FOMA 50% RB, 15 MHz, 64-QAM, UL Subirame=2,3,4,7,8,9)	LTE-TDD	8.55	19.6
10494	AAG	LTE-TOD (SC-FDMA, 50% RB, 20MHz, GPSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD	7,74	±9.6
10496	AAG	LTE TDD (SC-FDMA, 50% RB, 20MHz, 16-QAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 20MHz, 54-QAM, UL Subframe-2,3,4,7,8,9)	LTE-TDD	8.37	£9.8
10490	AAG	LTE-TOD (SC-FDMA, 30% HB, 20MHz, 54-GAM, UL Subhame=2,3,4,7,8,9) LTE-TOD (SC-FDMA, 100% HB, 1.4 MHz, QPSK, UL Subhame=2,3,4,7,6,9)	LTE-TDD	8.54	±9.8
10498	AAC	UTE-TOD (SC-FOMA, 100% RB, 1.4 MHz, GFSA, 0L Subtrama-2.3,4,7,8,9) UTE-TOD (SC-FOMA, 100% RB, 1.4 MHz, 16-OAM, UL Subtrama-2.3,4,7,8,9)	LTE-TDD LTE-TDD	8.40	±9.6 ±9.6
10499	AAC	LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 18-QAM, U. Subtrame-2.3.4,7.8.9)	LTE-TDD		
10.500	AAD	LTE-TDD (SC-FOMA, 100% PB, 3MHz, QPSK, UL Subframe=2.3,4,7,8.9)	LTE-TDD	8.68	±9.6
10501	AAD	LTE TDD (SC-FDMA, 100% RB, SMHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	175-700	7.57	±9.8 ±9.8
10502	AAD	LTE-TOD (SC-FOMA, 100% HB, 3MHz, 64-GAM, UL Subframe=2.3,4,7,8,9)	LTE-TOO	8.42	±9/0 ±9.6
10300	AAG	LTE-TDD (SC-FDMA, 100% FB, 5MHz, QPSK, UL Subhame=2.3.4.7.8.9)	LTE-TDD	7.72	±9.0 ±9.6
10604	AAG	LTE-TDD (SC-FDMA, 100% R8, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.0 ±9.5
10505	AAG	LTE-TOD (SC-FDMA, 100% RB, 5MHz, 64-GAM, UL Subframe=2.3,4,7,8.9)	LTE-TOD	8.54	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% R8, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.0 ±9.6
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 1DMHz, 16-QAM, UL Subframe-2,3,4,7,8,9)	LTE-TDD	8.36	19.6
10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subhame-2,3,4,7,8,9)	LTE-TOD	8.65	19.5
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, GPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.99	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM, UL Subframe+2,3,4,7,8,9)	LTE-TDD	8.49	19.6
10511	AAF	LTE-TDD (SC-FDMA, 100% R8, 15MHz, 64-QAM, UL Subhame=2,3,4,7,8,9)	LTE-TDD	8.91	±9.0
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subhame+2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10513	AAG	LTE-TED (SC-FDMA, 100% RB, 20 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	±9.8
10514	AAG	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UI, Subframe=2.3,4,7.8,9)	LTE-TDD	8.45	±9.6
10515	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mops, 99pc duty cycle)	WLAN	1.58	±9.6
10516	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10517	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	19.6
10:518	AAC	IEEE 802.11aft WIFI 5 GHz (OFDM, 9 Mbps, 99pc duty sycle)	WLAN	8.20	±9.6
10519	AAC	IEEE 802.11a/h WIFI 5 GHz (OFOM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	19.6
10.529	AAC	IEEE 802.11 wh WIFI 5 GHz (OFOM, 18 Mops, 99pc duty cycle)	WLAN	8.12	±9.6
10521	AAC	IEEE 602.11a/h WIFI 5 GHz (OFOM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
10522	AAC	IEEE 802.11eh WIFI 5 GHz (OFDM, 36 Mops, 99pc duty cycle)	WLAN	8.45	±9,6
10523	AAG	IEEE 802 116/h WIFI 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
10.524	AAC.	IEEE 802.11e/h WIFI 5 GHz (OFOM, 64 Mbps; 99pc duly cycle)	WLAN	8.27	3.8.6
10525	AAC	IEEE 802.11ac W/F) (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.36	19.6
10526	AAC	IEEE 802.11ac WIFI (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.9
10827	AAC	IEEE 802.11ac WFI (20 MHz, MCS2, 99pc duty cycle)	WLAN	B.21	:0.6
10528	AAG.	IFIEE 002.11ac WFI (20 MHz, MCS3, 99pc duty cycle)	WLAN	B-34)	29.6
10529	AAC AAC	IEEE 802 11ac WFI (20 MHz, MCS4, 95pc duty cycle)	WLAN	8.36	±8.6
10531	AAC	IEEE 802.1 tao WiFi (20 MHz, MCS8, 99pc duty cysle)	WLAN	8.43	±9.6
10532	AAC	IEEE 802.11 ac WIFI (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	+9.6
10533	AAG	EEE 802.11ac WiFI (20 MHz, MCS8, 99pc duty cycle)	WEAN	Ø.38	29.0
10534	AAC.	IEEE 802 11ac WIFI (40 MHz, MCS0, 99pc duty cycla)	WLAN	8.45	±9.6
10535	AAD	IEEE 802.11 ac WIFI (40 MHz, MCS1, 98pc duty cycle)	WLAN	8.45	±9.0
10538	AAC	IEEE 802.11ac WIFI (40 MHz, MCS2, 98pc duty cycle)	WLAN	8.32	±9.6
10538	AAC AAC	IEEE 802.11ac WiFi (40 MHz, MCIS3, 98pc duty cycle)	WLAN	8,44	19.6
		IEEE 802 11sc WF1 (40 MHz, MCS4, 99pc duty cycle)	WLAN.	8.54	±9.6
10540	AAC .	IEEE 802.11ac WIFi (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.39	±0.6

Cartificata No. EY.7881 No.00

Dens 12 al no.





November 27, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>#</sup> k = 2
10541	AAC	IEEE 802.11ac WIFI (40 MHz, MCS7, 99pc duty cycle)	WLAN	8,45	:0.6
10542	AAC	IEEE 802.11ac WIFi (40 MHz, MCS8, 98pc duty cycle)	WLAN	8.85	±9.6
10543	AAC	IEEE 802.11ap WIFI (40 MHz, MCS9, 99pc duty cycle)	WEAN	8.55	±9.6
10544	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 98pc duty cycle)	WLAN	8.47	10.6
10545	AAC	IEEE 602.11ac WIFI (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10546	AAG	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WEAN	8.85	±9.6
10547	AAC	IEEE 802.11ac WiFi (80 MHz, MCB3, 99pc duty cycle)	WLAN	8.49	±9.6
10548	A4C	IEEE 802.11ac WIFI (80 MHz, MCS4, 99pc duty cycle)	WEAN	8.37	19.8
10550	AAG	IEEE 802.11ac WIFI (80 MHz, WCS6, 99pc duty cycle)	WLAN	8.38	±9.6
10551	AAC	IEEE 802 11 ac WIFI (80 MHz, MCS7, 98pc duty cycle)	WLAN	8.50	±9.6
10562	AAC.	IEEE 802.11ac WIFI (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6
10.553	AAC	IEEE 802.11ac WIFI (80 MHz, MCS9, 99pc duty cycle)	WLAN.	8.45	±9,6
10054	AAD	IEEE 802.11ac WFI (160 MHz, MC80, (9pc duty cycle)	WLAN	8,48	19.6
10555	AAD.	IEEE 802.11ac WIFI (160 MHz, MCS1, 99pc duty cycle)	WLAN	0.47	±9.6
10565	AAD	IEEE 802.11ac WIFI (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10557	AAD	HEEE 802.11ac WIFI (160 MHz, MCS3, 66pc duty cycle)	WLAN	8.82	<b>非</b> 9,市
10558	AAD	IEEE 802.11ac WFI (160 MHz, MC84, 99pc duty cycle)	WLAN	8.61	±9.0
10580	AAD	IEEE 802.11ac WIFI (160 MHz, MC96, 99pc duty cycle)	WLAN	8.73	±9.8
10561	AAD .	IEEE 802.11ac WFI (160 MHz, MCS7, 00pc duty cycle)	WLAN	8.56	19.8
10562	AAD AAD	IEEE 802 11ac WIFI (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	主要の
10063	AAA	IEEE 802 11az WIFI (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.5
10565	AAA	IEEE 802 11g WIFI 2.4 GHz (DSSS-OFOM, 9Mbps, 99pc duty cycle)	WLAN	8.35	±9.6
10566	AAA	IEEE 902.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mope, 99pc duty cycle) IEEE 902.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN WLAN	8.45	49.0
10567	AAA	IEEE 802.11g WFI 2.4 GHz (DSSS-OF DM, 18 Mbps, 99pc duty cycle) IEEE 802.11g WFI 2.4 GHz (DSSS-OF DM, 24 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6 ±9.6
10568	AAA	IEEE 802.11g WIF 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	19.0 19.0
10569	AAA	IEEE 802.11g WIF 2.4 GHz (DBSS OFDM, 48 Mbps, 99pc duty cycle)	WEAN	8.10	19.6
10570	AAA	IEEE 802.11g WIFI 2.4 CHy (DSSS-OFOM, 64 Mbps, 99pc duty cycle)	WLAN	8.30	19.6
10571	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WEAN	1.90	29.6
10572	AAA	IEEE 802.11b WIFi 2.4 GHz (DS5S, 2 Mbps, 90pc duty cycle)	WEAN	1.99	20.0
10573	AAA	IEEE 602 116 WIF 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.95	29.6
10574	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.48	19.6
10575	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WEAN	8.59	29.0
10576	AAA	IEEE 802.11g WIFI 2.4 GHz (DBSS-OFDM, 9 Mbps, 90pc duty cycle)	WEAN	8.60	±9.6
10577	AAA	IEEE 802.11g WIFI 2.4 GHz (OSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.0
10578	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	19.6
10579	AAA.	IEEE 802 11g WIFI 2 4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10588	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10581	AAA,	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.8
10582	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	19.6
10583	AAC:	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.50	19.6
10684	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 80pc duty cycle)	WLAN	6.60	:19.6
10585	AAC	IEEE 802.11a/h W FI 5 GHz (OFDM, 12 Mbps, 80pc duty cycle)	WLAN	8.70	±9.0
10685	AAC.	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.48	±9.6
10587	AAG	IEEE 802 11a/h WIFI 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.38	29.6
10588	AAC	IEEE 802.11a/h WFI 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	2,9.6
10588	AAC AAC	IEEE 802 11a/h WIFI 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WEAN	8.35	注9.6
10590		IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 90pc duty cycla)	WLAN	8.67	±9.6
10592	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	£9.6
10592	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle) IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 20 no duty cycle)	WEAN	8.79	±9.6
10,594	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.0
10.595	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle) IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8,74	±9,6
10596	AAC	IEEE 802.111 (HT Mixed, 20 MHz, MCSA, 50pc duty cycle) IEEE 802.111 (HT Mixed, 20 MHz, MCSS, 90pc duty cycle)	WLAN	8.74	±9.6
10.596	AAC	IEEE 802 11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle) IEEE 802 11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8,71	±9.6
10598	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCSE, Sope duty cycle)	WLAN	8,72	19.6
10598	AAG	IEEE 802.11n (HT Mosed, 40 MHz, MCS0, 90pc duty cycle)	WLAN WLAN	8.50	±9.6
10600	MC	IEEE 802.11= (HT Mixed, 40 MHz, MCSJ, 90pc duty cycle)	WLAN	8.88	±9.6
10601	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	3.8±
10602	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.82	\$9.6
10603	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6 +9.6
10604	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	9.03	19.6
10-805	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS8, 90pc duty cycle)	WLAN	8.97	19.6
10/808	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	29.6
	AAC	IEEE 802 11ac WIFI (20 MHz, MCS0, 90pc duty type)	WLAN	8.84	29.6 ±9.6
10807					

Contilicate Nov EY,7881 Mex/29

N=== 10 =1 mm



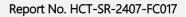


November 27, 2023

up	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10609	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8,57	±9.6
10610	AAC	IEEE 802 11 ac WIFI (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAC	IEEE 802.11ac WIFI (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	- NAC	IEEE 862.11ac WIFI (20MHz, MC65, 90pc duty cycle)	WLAN	8.77	±0.6
10613	AAC	IEEE 802 11ac WIFI (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±8.8
10614	AAC	IEEE 802.11ac WIFI (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
10615	AAG	IEEE 802.11ac WiFi (20 MHz, MCS8. 90pc duty cycle)	WLAN	8.82	±9.6
10616	AAC	IEEE 802 11ac WFI (40 MHz, MCS0, 90pc duly cycle)	WLAN	8.82	±9.6
18617	AAC	IEEE 802.11ac WFI (40 MHz, MCS1, 90pc duty cycla)	WLAN	8.81	±9.6
10618	AAC	IEEE 802.11ac WIFI (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.0
10619	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10620	AAC	IEEE 802.11ac WIFI (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAC	IEEE 802.11ac WIFI (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAC	IEEE 802.11ac WIFI (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.60	19.6
10623	AAC	IEEE 002.11ac WIFI (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10624	AAC	IEEE 802.11ac WIFI (40 MHz, MCS8, 90pc duty cycle)	WLAN	5.96	±9.6
10625	AAC	IEEE 802.11ac WFI (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.90	
10626	AAC	IEEE 802.11ac WIFI (80 MHz, MCS0, 90pc duty cycle)	WLAN		19.6
10627	AAC	IEEE 802,11ac WFI (80 MHz, MCS1, 90pc duty cycle)		8.83	±9.6
10828	AAC	IEEE 802.11ac WIFI (80 MHz, MCS1; supe duty cycle)	WLAN	8.88	3.9.6
10629	AAC	IEEE 802,1145 WH1(80 WH2, WCS2, 90pc duty byte) IEEE 802,114c WH1(80 WH2, MCS3, 90pc duty byte)	WLAN	8.71	29.6
10630	AAC	IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10630	AAC		WLAN	8.72	19.6
the second second second		IEEE 802.11ac WiFI (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	土9.8
10632	AAC	EEE 802.11ac WIFI (80 MHz, MCS6, 90pc duty cycle)	WLAN.	8.74	±9,8
10633	AAG	EEE 802.11ec WIFI (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	主9.8
10634	AAC	IEEE 802.11ac WIFI (80 MHz, MCS8, 90pc duty cycle)	WLAN	8,80	大爭.6
10.635	AAC	IEEE 802.11ac WIFI (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.81	±9.6
10636	AAD	IEEE 802.11ac WIFI (190 MHz, MCSC, 90pc duly cycle)	WLAN	8.83	±9.8
10637	AAD	IEEE 802.11ac WIFI (100 MHz, MCS1, 30pc duty cycle)	WLAN	8.79	±9.0
10638	AAD	IEEE 802.11ac WIFI (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
10639	AAD	IEEE 802.11ac WIFI (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10640	AAD	IEEE 802.11ac WIFI (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9,8
10:041	AAD	IEEE 802.11ac WIFI (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
10642	AAD	IEEE 802.11ac WIFI (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.06	±9.6
10643	AAD	IEEE 802.11ac WIFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAD	TEEE 802.11ac WIFI (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	19.5
10646	AAD	IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	+9.5
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,7)	LTE-TDD	11.96	19.6
10647	AAG	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subitarre=2.7)	LTE-TDD	11.96	±0.8
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10852	AAF	LTE-TDD (OFOMA, 5 MHz, E-TM 3.1, Clipping 64%)	LTE-TDD	6.91	±9.6
10853	AAF	LTE-TOD (OFDMA, 10MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7,42	±0.6
10854	AAE	LTE-TDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	8.96	19.6
10655	AAF	LTE-TOD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7,21	
10656	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10-659	AAB	Pulse Waveform (200Hz, 20%)	Text		±9.6
10460	AAB	Pulse Waveform (200Hz, 40%)	Test	6.99	19.6
10661	AAB	Pulse Waveform (200Hz, 60%)		3.98	±9.6
10062	AAB	Pulsa Waveform (200Hz, 60%)	Test	2.22	±9.6
10670	AAA	Bluetooth Low Energy	Test	0.97	±9.4
10871	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	Bluetooth	2,19	±9.6
10672	AAG		WLAN	9.09	±9.6
10672	AAC	IEEE 800, 11 ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	39.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
10875		IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
-	AAG	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	(B.90	±9.6
10876	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8,77	69.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8,73	29.6
10678	AAC	IEEE 802.114x (20 MHz, MCS7, 90pc duty cycle)	WLAN	8,78	北9.6
10.679	AAC	IEEE 802.11ax (20 MHz, MCSB, 90pc duty cycle)	WLAN	8.89	±9.6
10.680	AAC	IEEE 802 11 ax (20 MHz, MCS9, 90pc duty cycla)	WLAN	8.80	±9.6
10681	AAC	IEEE 802 11 mx (20 MHz, MCS10, 90pc duly cycle)	WLAN	8.62	±9.6
10:682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90ps duty cycle)	WLAN	8.83	19.6
10683	ANC .	IEEE 802.11 ax (20 MHz, MCSO, 99pc duty cycle)	WLAN	8.42	10.6
	AAC .	IEEE 802.11ax (20 MHz, MCB1, 99pc duty cycle)	WLAN	8.26	19.6
10884					2.0-11
	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle) IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.33	+9.6

Cartificate No: EY.7681 Meu09

Deat 17 ston





#### November 27, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
0687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
10688	AAG	IEEE 802.11ax (20 MHz, MCSS, 99pc duty cycle)	WLAN	8.29	±9.8
10689	AAC	IEEE 802.11ax (20 MHz, MC58, 99pc duty cycle)	WLAN	8.55	±9.0
10690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
10685	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	+9,5
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 98pc duty cycle)	WLAN	8.25	±9.6
10694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.87	±9.6
10605	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WEAN	8.78	±9.6
10095	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
10697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	5.61	±9.6
10698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	19.6
10600	AAG	IEEE 809.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	6.62	±8,6
10,700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duly cycle)	WLAN	8.73	主9.6
10701	AAC	IEEE 808:11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.66	±8.6
10702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6
10703	AAC	IEEE 802.11ax (40 MHz, MCSB, 90pc duty syste)	WLAN	8.82	±9.8
10704	AAC	IEEE 802.11ax (40 MHz. MCSB, 90pc duty cycle)	WLAN	8.56	±9.0
10705	AAC	IEEE 802 11ax (40 MHz, MCS10, 90pc duty cycle)	WEAN	8.69	#9.8
10706	AAC	EEE 802 11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8,86	29.8
10707	AAC	EEE 802 11ax (40 MHz, MCSD, 99pc duty cycle)	WCAN	8.32	±9.6
10708	AAC	EEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710	AAC AAC	EEE 802.11ax (40 MHz, MCS3, 98pc duty cycle)	WLAN	8.29	±9.0
	1.4.104	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±.9.6
10712	AAC AAC	IEEE 802.11ax (40 MHz, MCS5, 98pc duty cycle)	WLAN	8.67	±9.6
10714	AAG	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.33	\$9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	19.6
10717	AAC	IEEE 802.11ax (40MHz, MCSH, 99pc duty cycle)	WLAN	8.30	±9.6
10718	AAC	IEEE 802-11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.48	19.6
10719	AAG.	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.24	±9,6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	19.6
10721	AAC	IEEE 802.11ax (80 MHz, MC82, 90pc duty cycle)	WLAN	8.87	±9.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN.	8.76	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN WLAN	8.55	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MC85, 90pc duty cycle)	WLAN	8.90	±9.6 ±0.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	19.6
10726	AAC	HEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	
10727	AAC	IEEE 802 11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.00	±9.8 ±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCSII, 90pc duty cycle)	WLAN	8.65	19.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	19.6
10750	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10.731	AAD.	IEEE 802.11ax (80 MHz, MCS0, 89pc duty cycle)	WLAN	8.42	+9.6
10732	AAC	IEEE 802.11 ax (BD MHz, MCS1, 99pc duty cycle)	WLAN	8.48	1.0.0
10733	AAC	IEEE 802.11ax (BOMHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
10734	AAC	IEEE 602.11ax (60 MHz; MCS3, 99pc duty cycle)	WLAN	8.25	19.6
10735	AAC .	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	19.6
10736	AAC	IEEE 802 11sx (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	19.6
10737	AAC	IEIEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.36	±8.6
10738	ANC:	IEEE 802.11ax (80 MHz, MCS7, 99pc duby cycle)	WLAN	8.42	±9.6
10738	AAC	IEEE 002 11ax (80 MHz, MCS8, 99pt duty tycle)	WLAN	8.29	±8.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8,48	±9.6
10741	AAC.	IEEE 802.11ax (80 MHz, MCB10, 99pc duty cycle)	WLAN	8.40	±9.0
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 98pc duty cycle)	WLAN	8.43	::0.8
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	10.6
10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	:19.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	3.6
10748	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN.	9.11	±9.0
10747	AAC	IEEE 802.11a± (160 MHz, MCS4, 90pc duty cycle)	WLAN.	9,04	±9.0
10748	AAC	IEEE 802.11ax (150 MHz, MCS5, 90pc duty cycle)	WLAN	6.93	±9.6
10749	AAC.	IEEE 802.114x (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
10750	AAC	IEEE 802.31 ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	1.9.8
18752	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6

Certificate No: FX.7681 Nov.29

Done 10 =1:00



November 27, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Uno <sup>6</sup> k = 1
10753	AAC .	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.5
10754	AAC.	IEEE 882.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN.	8.94	1.9.6
10758	AAC	IEEE 802 11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6
10756	AAC	IEEE 882.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.8
10.757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6
10758	AAC.	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	125
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±8.f
10760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	B.49	19.6
10761	AAC.	IEEE 802.11ex (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.8
10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10768	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	19.6
10767	AAE	SG NR (CP-OFDM, 1 RB, SMHz, QPSK, 15 kHz)	5G NR FRI TDD	7.99	±9.8
10768	AAD	SG NR (CP-OFDM, 1 RB, 10MHz, QPSK, 15kHz)	5G NR FRT TDD	8.01	±9.8
10769	AAD	5G NR (CP-OFDM, 1 RB, 15MHz, OPSK, 15kHz)	5G NR FR1 TDD	8.01	1.9.8
10770	AAD	50 NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	SG NR FRI TDD	8.02	±9.6
10771	AAD	SG NH (CP-OFDM, 1 HB, S5 MHz, QPSK, 15 kHz)	56 NR FR1 TDD	6.02	19.6
10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	SG NR FRI TOD	B.23	1.9.5
10773	AAD	SG NR (CP-OFDM, 1 RB, 40MHz, QPSK, 15kHz)	50 NR FR1 TDD	8.03	1.9.8
10.774	AAD	50 NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15kHz)	5G NR FRI TDD	H.02	1.9.8
10,775	AAD	5G NR (CP-OFOM, 50% RB, 5MHz, QPSK, 15kHz)	50 NR FR1 TDD	8.31	±9.8
10776	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	SG NR FR1 TDD	8.30	±8.6
10777	AAC .	50 NR (CP-OFOM, 50% RB, 15 MHz, QPSK, 15 KHz)	5G NR FR1 TDD	8.30	±9.0
1077B	AAD	5G NR (CP-OFDM, S0% RB, 20 MHJ, QPSK, 15 HHJ)	5G NR FR1 TOD	8.34	19.6
10779	AAC	50 NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 KHz)	53 NR FR1 T00	8.42	±9.5
10780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10781	AAD.	50 NR (CP-OFDM, 50% RB, 40 MHz, CPSK, 15 KHz)	5G NR FR1 TOD	8.38	±9.6
10782	AAD	5G NR (CP-OFDM, 50% RB, 50 MHz, QPBK, 15 kHz)	5G NR FR1 TOD	8.43	±9.8
10783	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	SG NR FR1 TOD	8.31	±8.6
10,784	AAD.	50 NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15kHz)	5G NR FR1 TOD	8:29	:9.6
10785	AAD.	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.40	±9.6
10786	AAD	50 NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15kHz)	SQ NR FR1 TDD	8.35	±9.6
10787	AAD	5G NR (CP-OFDM, 100% RB, 25MHz, QPSK, 15kHz)	5G NR FR1 TOD	8.44	+0.6
10788	AAD	5B NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TOD	8.39	±9.6
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15kHz)	5G NR FR1 TOD	8.37	+9.6
10790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 T00	8.39	±9.6
10791	AAE	5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30kHz)	5G NR FR1 T00	7.83	±9.6
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 T00	7.92	±9.6
10793	AAD.	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
10794	AAD	5G NR (CP-OFDM, 1 R8, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	7.82	29.6
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	8.8
10797	(AAD)	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	±9.6
10798	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	6G NR FR1 TDD	7.89	±9.6
10799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, OPSK, 30 kHz)	SG NR FR1 TDD	7.95	±9.6
10.801	AAD .	5G NR (CP-OFDM, 1 RB, 80 MHz, QP5K, 30 kHz)	5G NR FR1 TDD	7.89	:9.6
10802	AAD	SG NR (CP-OFDM, 1 RB, 90 MHz, GPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10803	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	7.93	±9.6
10808	AAD	SG NR (CP-OFDM, 50% RB, 10 MHz, GPSK, 30 KHz)	SG NR FR1 TDD	8.34	±9.0
10806	AAD	50 NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	0.37	±9.6
10800	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.0
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	8.34	+9.6
10812	AAD	fiG NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TOO	8.35	±9.6
10817	AAE	5G NR (CP-OFDM, 100% AB, 5 MHz, QPSK, 30 kHz)	5G NE FE1 TOD	8.35	±9.6
10818	AAD	50 NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	8.34	±9.6
10819	AAD	9G NR (CP-OFDM, 100% R8, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
10820	AAD	5G NR (CP-OFOM, 100% RB, 20MHz, QPSK, 30NHz)	5G NR FR1 TDD	8.30	±9.6
10821.	AAD	DG NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.41	±9.6
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	8.8±
10823	AAD	SG NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.38	19.6±
10824	AAD	50 NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
10.825	AAD	SG NR (CP-OFDM, 100% RB, S0 MHz, QPSK, 30 kHz).	5G NR FRS TDD	8.41	±9.6
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FRI TOD	8.42	±9.6
10828	AAD	5G NR (CP-OFDM, 100% R8, 90 MHz, QPSK, 30 kHz)	SG NR FRI TDD	8.43	±9.6

Certificate No: EV.7681 Nev.99

Bean 10 at 05



November 27, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Uno <sup>R</sup> $k = 2$
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, OPSK, 30 kHz)	5G NR FR1 TOD	8.40	+9.6
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.83	19.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FRI TDD	7.73	:9.6
0.832	AAD	SG NR (CP-OFDM, 1 RB, 20MHz, CPSK, 60 kHz)	5G NR FR1 TOD	7.74	19.6
0833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, OPSK, 60 kHz)	SG NR FR1 TDD	7.70	29.6
0.634	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, GPSK, 60 RHz)	5G NR FR1 TDD	7,75	±9.6
0.835	AAD	SG NR (CP-OFDM, 1 RB, 40 MHz, CPSK, 60 kHz)	5G NR FR1 TDD	7.70	#9.6
0.836	AAD	SG NR (CP-OFDM, 1 RB, 50 MHz, GPSK, 60 kHz)	5G NR FR1 TDD	7.66	49.0
10.837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, OPSK, 60 kHz)	5G NR FR1 TOD	7.68	\$9.6
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, GPSK, 80 kHz)	50 NR FR1 TOD	7.20	3.9.6
10.640	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7,87	29.6
0841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TOD	7.71	±9.6
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8,49	6.9.6
0844	AAD	5G NR (CP-OFDM, 50% RB, 20MHz, QPSK, 80kHz)	5G NR FR1 TDD	8.34	29.6
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8,41	3.9.5
0.854	AAD	5G NR (CP-OFDM, 100% R9, 10 MHz, QPSK, 60 NHz)	56 NR FR1 TDD	8.34	大學是
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	6G NR FR1 TDD	8.36	±9.6
0856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FRI TDD	8.37	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 KHz)	5G NR FR1 TDD	8.35	:9.6
6680	AAD	SG NH (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 KHz)	56 NR FR1 TDD	8.36	19.6
0858	AAD	5G NR (CP-OFDM, 100% R8, 40 MHz, QPSK, 60 kHz)	53 NR FRI TOD	8.34	20.0
10.860	AAD	5G NR (CP-OFDM, 100% R8, 50 MHz, QPSK, 60 MHz)	SG NR FR1 TDD	9,41	1.9.8
10851	DAA	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8,40	±8.0
10.863	AAD	SG NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	50 NR FR1 TDD	B.41	±9.6
10.964	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, OPSX, 60 MHz)	5G NR FR1 TDD	8.37	±9.0
10 866	AAD	5G NR (CP-OFDM, 100% R8, 100 MHz, QPSK, 60 kHz) 5G NR (DFT-s-OFDM, 1 R8, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8,41	6.9.6
10.868	AAD	SG NR (DFT-S/OFDM, 1 HB, 100 MHz, QPSK, 30 kHz) SG NR (DFT-6-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	5.68	±9.6
10.868	AAF	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 KHz)		the second s	19.6
10.870	AAE	5G NR (DFTs-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD 5G NR FR2 TDD	5.75	±9.8
10/871	AAE	5G NR (DFTs-OFDM, 1 RB, 100 MHz, 15QAM, 120 HHz)	5G NR FR2 T00	5.75	19.8
0872	AAE	55 NR (DFT=OFDM, 100% R8, 100 MHz, 18QAM, 120 kHz)	5G NR FR2 TDD	6.52	19.6
10873	AAE	50 NR (DFT-s-OFDM, 1 RB, 100 MHz, 540AM, 120 KHz)	5G NR FR2 TDD	6.61	±9.6
0.874	AAE	5G NR (DFT=OFDM, 100% R8, 100 MHz, 54QAM, 120 kHz)	5G NR FR2 TDD	6.85	19.6
0.875	AAE	5G NR (CP-OFDM, 1 AB, 100 MHz, QPSK, 120 kHz)	SG NR FR2 TDD	7.78	±8.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	19.6
0877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 18QAM, 120 KHz)	5G NR FR2 TDO	7.96	+8.6
0.678	AAE	5G NR (CP-OFDM, 100% R8, 100 MHz, 16CAM, 120 kHz)	5G NR FR2 T00	8.41	+9.8
0879	AAE	5B NR (CP-OFDM, 1 RB, 100 MHz, 84GAM, 120 kHz)	5G NR FR2 TDD	8.12	-±9.6
0880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 54QAM, 120 kHz)	53 NR FR2 100	8.38	19,8
0881	AAE	5G NR (DFT+ OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 T00	5.75	±8.6
0882	AAE	SG NR (DFT-e-OFDM, 100% R8, 00 MHz, OPSK, 120 kHz)	5G NR FR2 TDO	5.96	19.6
0863	AAE	5G NR (DFTs-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	SG NR FR2 TDO	6.57	±9.5
0884	AAE	5G NR (DFT-e-OFDM, 100% AB, 50 MHz, 16QAM, 120 kHz)	SG NR FR2 TOD	6.53	±9.6
0885	AAE	5G NR (DFT+ OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	SG NR FR2 TOD	6.61	:+9.6
0686	AAE	5G NR (DFT+-OFDM, 100% RB, 50 MHz, 64QAM, 120 HHz)	5G NR FR2 TDD	8.65	19.6
0887	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, GPBK, 120 kHz)	5G NR FR2 TDO	7.78	±8.6
0888	AVE	SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 KHz)	50 NR FR2 T00	8.35	:19.6
0889	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	SG NR FR2 TOD	8.02	±9.0
0890	AAE	5G NR (CP-OFDM, 190% RB, 50 MHz, 16GAM, 120 kHz)	5G NR FR2 TOD	8,40	#9.6
0.991	AAE	5G NR (CP-OFDM, 1 R8, 50 MHz, 64QAM, 120kHz)	SG NR FR2 TDD	8.13	$\pm 9.0$
0.892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	SG NR FR2 TOD	B.41	19.8
0897	AAC	SG NR (DFTs-CFDM, 1 R8, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	±9.8
0.898	AAB	5G NR (DFT-s-OFDML 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FIN TOD	5.67	£.9.B
0899	AAB	SG NR (DFT4-OFDM, 1 RB, 18 MHz, OPSK, 30 kHz)	SG NR FR1 TDD	6.67	±9-8
	AAB	50 NR (DFT+-OFDM, 1 RB, 20 MHz, OPBK, 30 kHz)	50 NR FR1 TDD	5.68	±8,6
1080	AAB	SG NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.0
0902	AAB	50 NR (DFT+6-OFDM, 1 RB, 30 MHz, QPSK, 30 Hz)	5G NR FR1 TDD	5,68	±9.8
0903	AAB	50 NR (DFT-s OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	5.68	±9.5
0904	AAB	5G NR (DFT+-OFDM, 1 RB, 50MHz, QPSK, 30kHz) 5G NR (DFT+-OFDM, 1 RB, 60MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.68	±9.8
0905	AAB	5G NR (DF14-OFDM, 1 RB, 80MHz, QPSK, 30kHz) 5G NR (DFT4-OFDM, 1 RB, 80MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.68	±9.8
0900	AAC	50 NR (DFT= OFDM, 50% RB, 5MHz, GPSK, 30kHz)	SG NR FR1 TOD	5.68	±8.6
0907	AAB	BG NR (DFTs-OFDM, 50% RB, 5MHz, GPSK, 30kHz) BG NR (DFTs-OFDM, 50% RB, 10 MHz, GPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.8
0909	AAB	50 NR (OFTs-OFDM, 50% RB, 15 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	5.93	±9.6
0910	AAB	5G NR (DFT-6-OFDM, 50% RB, 20 MHz, QPSK, 30 KHz)	5G NR FR1 T00	5.96	19.8
-1 to 1 to 1	1.11.11.1	reaction of the sent of the reaction of the sent of th	5G NR FR1 TOD	5.83	±9.6

Cartificata No. EV.7881 Mai/09

Dean 00 -110





November 27, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 1
10911	AAB	5G NR (DFT-4-OFDM, 50% RB, 25 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.93	+9.5
10912	AAB	5G NR (DFTs-OFOM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.0
10913	AAB	50 NR (DFT-s-OFDM, 50% RB, 40 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.84	+9.8
10914	AAB	3G NR (DFTs-OFOM, 50% RB, 50 MHz, OPSK, 30 kHz)	50 NR FR1 TOD	6.85	::0.0
10015	AAB	50 NR (DFT++-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	SG NR FRI TDD	5.83	19.6
10916	AAB	5G NR (DFTs-OFDM, 50% RB, 80MHz, OPSK, 30NHz)	5G NR FR1 TDD	5.87	+9.6
10917	AAB	5G NR (DFTs-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	SG NR FRI TDD	5.94	19.6
10918	AAC	SG NR (DFTs-OFDM, 100% RB, 5MHz, QPSK, 30%Hz)	SQ NR FR1 TDD	5.96	±9.6
10919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.88	20,0
10920	AAB	SG NR (DFTs-OFDM, 100% RB, 15MHz, QPSK, 30 KHz)	SQ NR FRI TOD	5.87	±9.6
10921	AAE	5G NR (DFT+-OFDM, 100% RB, 20 MHz, QPSK, 30 KHz)	SG NR FR1 TDD	5.84	
10922	AAB	5G NR (DFT=-OFDM, 100% RB, 25 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	5.64	19.6
10023	AAB	5G NR (DFT+-OFDM, 100% RB, 20 MHz, GPSK, 30 H/s)	SG NR FR1 TDD	5.84	±9.6
10924	AAB	SG NR (DFT=-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	the second second second	19.6
10925	AAB	5G NR (DFTe-OFDM, 100% RB, 50 MHz, QPSK, 30 Hz)	5G NR FR1 TDD	5.84 5.95	±9.6
10926	AAB	SG NR (DFT # OFDM, 100% RB, 60 MHz, QPSK, 30 MHz) SG NR (DFT # OFDM, 100% RB, 60 MHz, QPSK, 30 MHz)	5G NR FRI TOD	5.95	19.8
10925	AAB				±9.6
10.928	AAD	SG NR (DFT+-OFDM, 100% R8, 80 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	5.94	±9.6
10.000		SG NR (DFT= OFDM, 1 RB, S MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	19.6
10.929	AAC	SG NR (DFT+-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	SG NR FR1 FD0	8.52	±9.0
10930	AAC	SG NR (DFTs-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	SG NR FR1 FDD	5.52	±/9.6
10931	14.00	SO NR (DFT+-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	SG NR FR1 FDD	5.51	±9.0
10832	AAC	SG NR (DFTs-OFDM, 1 R8, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFTs-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	8.51	±9.0
10934	AAC	SG NR (DFTs-OFDM, 1 R8, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	19.8
10.035	AAD	SB NR (DFT#-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.0
10.936	AAC	5G NR (DFTs-OFDM, 50% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.90	19.6
10987	AAC	SG NR (DFT-e-OFDM, 50% RII), 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.90	±9.8
10939	AAC.	5G NR (DFT+-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	50.NR FR1 FD0	5.82	±9,6
10940	AAC.	50 NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 KHz)	SG NR FR1 FDD	5.89	19.6
10941	AAC	5B NR (DFT+-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	50 NR FR1 F00	5.83	土田,6
10942	AAC	50 NR (DFTs-OFDM, 50% R8, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	19.6
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAC	5G NR (DFT+-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±0.6
10945	AAC:	5G NR (DFTs-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FOD	5.85	19.6
10946	AAC.	5B NR (OFF-e-OFOM, 100% RB, 15 MHz, OPSK, 15 kHz)	50 NR FR1 F0D	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10945	AAC	5G NR (DFT-a-OFDM, 100% R8, 25 MHz, GPSK, 15 kHz)	5G NR FR1 FDD	5.94	19.6
10949	AAC.	59 NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.0
10950	AAG.	5G NR (DFT/s-OFDM, 100% RB, 40 MHz, QPSK, 15kHz)	5G NR FR1 F0D	5.94	±9.6
10951	AAD	53 NR (DFT-6-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	土9.6
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	39.6
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.15	+9.6
10.854	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	6.23	:9.6
10955	AAA	5G NR DL (CP-DFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.0
10.958	AAA	5G NR DL (CP-DFDM, TM 3.1, 5MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	:9.6
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-DAM, 30 kHz)	5G NR FR1 FDD	8.31	19.6
10.958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FRI FDD	8.61	±9.6
10.959	AAA	5G NR DL (CP-OFDM, TM 3,1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	+9.8
10.980	AAC	5G NR DL (CP-DFDM, TM 3.1, 5MHz, 54-QAM, 15kHz)	5G NR FR1 TDD	9.32	19.6
10:901	AAB	5G NR DL (CP-DFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz)	5G NR FR1 TDD	8.38	£9.6
10962	AAB	SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	53 NR FR1 TDD	9.40	19.6
10.963	AAB	5G NH DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
10964	AAC	56 NFI DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	53 NR FR1 T00	9.29	19.6
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 84-QAM, 30 kHz)	5G NR FRI TDO	9.37	+9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	+9.6
10967	AAB	6G NR DL (CP OFDM, TM 3.1, 20MHz, 64-GAM, 30 kHz)	5G NR FR1 TOD	9.42	19.6
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	19.0
10972	AAB	50 NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	SG NR FR1 T00	11.58	19.6
10973	AAB	SG NR (DFT-a-OFDM, 1 RB, 100 MHz, OPSK, 30 kHz)	5G NR FR1 TOD	9.06	±9.6
10974	AAB	50 NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	SG NR FRI TDD	10.28	
10978	AAA	ULLA BDR			19.6
10979	AAA	ULLA HDR4	ULLA	1.10	±9.6
10980	AAA	ULLA HDRS		8.58	10.6
10981	AAA	ULLA HDRb4	ULLA	10.32	±9.6
10982	AAA	ULLA HDRos	ULLA	3.19	:9.6
IV IDE	000	Arra unite	ULLA	3.43	±9.0

Certificate No: EY-7681 Nov23

Dens Dé af DR



	20	2.1.	e	12.8	2.15	2.00	-	
亡不	ЗD	41	1.7	ъr	ч.,	10	α1	

November 27, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Uno <sup>E</sup> k = 2
10983	AAA.	53 NR DL (CP-OFDM, TM 3.1, 40 MHz, 64 QAM, 15 kHz)	50 NR FR1 TDD	9.31	±9.6
10984	AAA	5G NR DL (CP-OFOM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	8.42	土井.6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TD0	9.54	±9.6
10986	AAA	5G NFI DL (CP-OFOM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	50 NR FR1 TOD	9.50	±9.6
10887	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.63	19.6
10988	AAA	5G NR DL (CP-OFOM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	56 NR FR1 TDD	9.38	19.6
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 54-QAM, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
10990	AAA.	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 90 kHz)	5G NR FR1 TOD	9.52	20.6
11003	AAA	5G NR DL (CP-OFOM, TM 3.1, 30 MHz, 64-QAM, 15kHz)	5G NR FR1 TOD	10.24	±9.6
11004	AAA	59 NR DL (CP-OFDM, TM 3.1, 30MHz, 64-QAM, 30kHz)	50 NR FR1 TDD	10.73	±0.6
11005	AAA	5G NR DL (CP-OFOM; TM 3.1, 25MHz, 64-QAM, 15hHz)	5G NR FR1 FDD	8.70	±9.6
11005	AAA	5G NR DL (CP-OFOM, TM 3.1, 30 MHz, 54 QAM, 15 kHz)	50 NR FR1 FDD	8.55	19.6
11007	AAA	53 NR DL (CR-OFDM, TM 3.1, 40 MHz, 54-QAM, 15 kHz)	6G NR FR1 FDD	B.46	±9.0
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FOD	8.51	±9.8
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 54-QAM, 30 kHz)	SG NR FR1 FDD	B.85	太母.8
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40MHz, 64-QAM, 30RHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 54 QAM, 30 kHz)	5G NR FR1 F00	8.68	±9.6
11013	AAA.	IEEE 802 11be (320 MHz, MCS1, 99pc duty cycle)	WLAN.	8.47	2,9,6
11014	AAA.	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
11015	ΑΑΑ	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAA	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8.41	±9.6
11018	AAA:	IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAA.	IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.8
11020	AAA.	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8,27	±8.6
11021	AAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±9.6
11022	AAA	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAA.	IEEE 802.11ba (320 MHz, MCS11, 99pc duty cycle)	WLAN	6.09	8.62
11024	AAA	IEEE 802 11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±8.6
11025	AAA	IEEE 802.11bs (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.97	1.9.6
11028	AAA	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	+9.6

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

Cariffonia Ma- EV 7001 Mauro

Down 00 +1 00



	04 Zurich, Switzerland		S Swiss Calibration Service			
he Swiss Accreditation	Accreditation Service (SAS) on Service is one of the signa t for the recognition of calibra	atories to the EA ation certificates	Accreditation No.: SCS 0108			
lient HCT Gyeonggi	-do, Republic of Korea	Certificate No.	EX-7622_Nov23			
CALIBRATIO	N CERTIFICATE	· · · · · · · · · · · · · · · · · · ·	11 thi			
		21 19 -	12 /			
Object	EX3DV4 - SN:	7622 <u>9 4 2015</u>	12 49 (J / 8/22) 12 17 2028/7.13			
Calibration procedure	QA CAL-25.v8	0, QA CAL-12.v10, QA CAL-14.				
		November 24, 2023				
This calibration certific The measurements an All calibrations have be	ate documents the traceability to til the uncertainties with confider	o national standards, which realize the phys nos probability are given on the following pr oratory facility: environment temperature (2	ages and are part of the certificate.			
The measurements an All calibrations have be Calibration Equipment	ate documents the traceability to the uncertainties with confider een conducted in the closed labo	o netional standards, which realize the phys nos probability are given on the following pr orstory facility: environment temperature (2 on)	ages and are part of the certificate. $2\pm3$ %C and humidity < 70%L.			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Power mater NRP2	alle documents the trapeability to d the uncertainties with confider een conducted in the closed labor used (M&TE critical for calibrati	o national standards, which realize the phys nos probability are given on the following pr oratory facility: environment temperature (2	ages and are part of the certificate.			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Primary Standards Power sensor NRP2 Power sensor NRP2	este documents the trapeability to d the uncertainties with confider een conducted in the closed labor used (M&TE critical for calibrati 10 SN: 104778 1 SN: 104778	o national standards, which realize the phys nce probability are given on the following pa orstory facility: environment temperature (2 on) Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 36-Mar-23 (No. 217-03804)	ages and are part of the certificate. 2 ± 3) *C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Power sensor NRP-29: DCP DAK-3.5 (weight	ate documents the traceability to to the uncertainties with confider een conducted in the closed labor used (M&TE critical for calibrati D SN: 104778 1 SN: 104778 1 SN: 103244 kd] SN: 1249	o national standards, which realize the physics probability are given on the following paratory facility: environment temperature (2) ion)  Cal Date (Certificate No.)  20-Mar 23 (No. 217-03804/03805)  30-Mar 23 (No. 217-03804)  05-Oct-23 (OCP-DAK3.5-1248 Oct	ages and are part of the certificate. 2 ± 3) *C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 23) Oct-24			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Power sensor NRP2 Power sensor NRP-29 DOCP DAK-12	ale documents the traceability to id the uncertainties with confider een conducted in the closed labor used (M&TE critical for calibrati b SN: 104778 1 SN: 103244 id] SN: 1249 SN: 1016	o retional standards, which realize the phys nos probability are given on the following pa orstory facility: environment temperature (2 on) Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 05-Oct-23 (OCP-DAK35-1248 Oct 05-Oct-23 (OCP-DAK35-1248 Oct	ages and are part of the certificate. 2 ± 3) *C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 23) Oct-24 23) Oct-24			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Power sensor NRP-29 DCP DAK-3.5 (weighte DCP DAK-12 Reference 20 dB Atjan	Be documents the traceability to the uncertainties with confider een conducted in the closed labor used (M&TE critical for calibrati	netforeal standards, which realize the physics probability are given on the following processory facility: environment temperature (2) an)     Cal Date (Certificate No.)     30-Mar-23 (No. 217-03804/03805)     30-Mar-23 (No. 217-03804)     05-Oct-23 (OCP-DAK3.5-1248 Oct     05-Oct-23 (OCP-DAK3.5-1248 Oct     05-Oct-23 (OCP-DAK12-1016.00)     30-Mar-23 (No. 217-03809)	ages and are part of the certificate. 2 ± 3) *C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 23) Oct-24 23) Oct-24 Mar-24			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Power sensor NRP2 Power sensor NRP2 Power sensor NRP2 DCP DAK-12 Reference 20 dB Atten DAE4	este documents the traceability to d the uncertainties with confider een conducted in the closed labor used (M&TE critical for calibrati ID SN: 104778 SN: 1	o retional standards, which realize the phys nos probability are given on the following pa orstory facility: environment temperature (2 on) Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 05-Oct-23 (OCP-DAK35-1248 Oct 05-Oct-23 (OCP-DAK35-1248 Oct	ages and are part of the certificate. 2 ± 3) *C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 23) Oct-24 23) Oct-24			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Power sensor NRP-29 DOP DAK-12 DOP DAK-12 Reference 20 dB Atten DAE4 Reference Probe ES3D	Be documents the traceability to the uncertainties with confider een conducted in the closed labor used (M&TE critical for calibrati	o national standards, which realize the physics probability are given on the following parameters (2) and (2)	ages and are part of the certificate. 2 ± 3) *C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 23) Oct-24 23) Oct-24 23) Oct-24 Mar-24 Mar-24 Mar-24 Jan-24			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Power sensor NRP-29 DCP DAK-3.5 (weights DCP DAK-12 Reference 20 dB Atjan DAE4 Reference Probe ES3D Secondary Standards	este documents the traceability to d the uncertainties with confider een conducted in the closed labor used (M&TE critical for calibrati ID SN: 104778 SN: 1	netforeal standards, which realize the physics probability are given on the following parameter probability: environment temperature (2) an)     Cal Date (Certificate No.)     30-Mar-23 (No. 217-03804)     05-Oct-23 (OCP-DAK3.5-1249 Oct     05-Jan-23 (No. 217-03809)     16-Mar-23 (No. 253-3015_Jan23)     Ofe-Jan-23 (No. ES3-3015_Jan23)	ages and are part of the certificate. 2 ± 3) *C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 23) Oct-24 23) Oct-24 23) Oct-24 23) Oct-24 Mar-24 Mar-24 Jan-24 Scheduled Check			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Power meter NRP2 Power sensor NRP-29 DGP DAK-12 Power sensor NRP-29 DGP DAK-12 Reference 20 dB Atlant AE4 Reference 20 dB Atlant AE4 Reference Probe ES3D Secondary Standards Power meter E4419B Power meter E4412A	eate documents the traceability to ad the uncertainties with confider used (M&TE critical for calibrati ID SN: 104778 1 SN: 104778 1 SN: 104778 1 SN: 103244 ISN: 1016 uator SN: CC2552 (20x) SN: 660 W2 SN: 3013 ID SN: GB41293874 SN: MY41499087	o national standards, which realize the physics probability are given on the following parameters (2) and (2)	ages and are part of the certificate. 2 ± 3) *C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 23) Oct-24 23) Oct-24 23) Oct-24 Mar-24 Mar-24 Mar-24 Jan-24			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Power sensor NRP2 Power sensor NRP2 Power sensor NRP2 Power sensor Standards Power sensor E4412A Power sensor E4412A Power sensor E4412A	Alle documents the traceability to difference in the closed labor used (M&TE critical for calibrati SN: 104778 1 SN: 104778 1 SN: 103244 kd] SN: 1048 9 SN: 1016 ustor SN: CC2552 (20x) SN: 660 N/2 SN: 3013 10 SN: GB41293874 SN: 000110210	o reformal standards, which realize the phys nee probability are given on the following pa protory facility: environment temperature (2 an) Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 36-Mar-23 (No. 217-03804) 05-Oct-23 (OCP-DAK15-1018, Oct 05-Oct-23 (OCP-DAK15-1018, Oct 30-Mar-23 (No. 217-03809) 16-Mar-23 (No. 253-3013, Jan23) O6-Jan-23 (No. ES3-3013, Jan23) Check Date (in house) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22)	ages and are part of the certificate. 2 ± 3) *C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 23) Oct-24 Oct-24 Mar-24 Jan-24 Jan-24 Scheduled Check In house check: Jun-24			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Primary Standards Power sensor NRP2 Power sensor NRP2	Alle documents the trapeability to did the uncertainties with confider een conducted in the closed labor used (M&TE critical for calibrati SN: 104778 1 SN: 103244 dij SN: 103244 dij SN: 102844 dij SN: 102842 (20x) SN: 660 W2 SN: 3013 ID SN: GB41293874 SN: WY41499087 SN: W1496087 SN: 000110210 C SN: US8642001700	O reflored standards, which realize the physics probability are given on the following processory facility: environment temperature (2) an)     Cal Date (Certificate No.)     30-Mar-23 (No. 217-03804/03805)     30-Mar-23 (No. 217-03804)     05-Oct-23 (OCP-DAK3.5-1248 Oct     05-Oct-23 (OCP-DAK3.5-1248 Oct     05-Oct-23 (OCP-DAK3.5-1248 Oct     05-Mar-23 (No. 217-03809)     16-Mar-23 (No. 217-03809)     16-Mar-23 (No. 217-03809)     06-Jar-23 (No. 253-3013_Jan23)     Of-Jar-23 (No. ES3-3013_Jan23)     Of-Jar-23 (No. ES3-3013_Jan23)     Of-Apr-16 (In house check Jun-22)     06-Apr-16 (In house check Jun-22)     04-Aug-99 (In house check Jun-22)	ages and are part of the certificate. 2 ± 3)*C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 23) Oct-24 23) Oct-24 23) Oct-24 Mar-24 Mar-24 Mar-24 Mar-24 Mar-24 In house check: Jun-24 In house check: Jun-24 In house check: Jun-24 In house check: Jun-24 In house check: Jun-24			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Power sensor NRP-29 DOP DAK-35 (weighte OCP DAK-12 Reference 20 dB Atjan DAE4 Reference 20 dB Atjan DAE4 Reference Probe ES3D Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A TF generator HP 86480	Alle documents the trapeability to did the uncertainties with confider een conducted in the closed labor used (M&TE critical for calibrati SN: 104778 1 SN: 103244 dij SN: 103244 dij SN: 102844 dij SN: 102842 (20x) SN: 660 W2 SN: 3013 ID SN: GB41293874 SN: WY41499087 SN: W1496087 SN: 000110210 C SN: US8642001700	crational standards, which realize the physics probability are given on the following paratory facility: environment temperature (2) an)     Cal Date (Certificate No.)     30-Mar-23 (No. 217-03804/03805)     30-Mar-23 (No. 217-03804)     05-Oct-23 (OCP-DAK15-1018, Oct     30-Mar-23 (No. 217-03809)     16-Mar-23 (No. 253-3013_Jan23)     O6-Jan-23 (No. ES3-3013_Jan23)     Check Date (in house)     06-Apr-16 (in house check Jun-22)     06-Apr-16 (in house check Jun-22)	ages and are part of the certificate. 2 ± 3)*C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 23) Oct-24 23) Oct-24 Mar-24 Ma			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Power sensor NRP-29 DOP DAK-35 (weighte OCP DAK-12 Reference 20 dB Atjan DAE4 Reference 20 dB Atjan DAE4 Reference Probe ES3D Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A TF generator HP 86480	Alle documents the trapeability to did the uncertainties with confider used (M&TE critical for calibration SN: 104778 SN: 104778 SN: 103244 dij SN: 1249 SN: 1016 uator SN: CC2552 (20x) SN: 660 W2 SN: 3013 ID SN: GB41293874 SN: MY41499087 SN: 000110210 C SN: US3642U01700	O reflored standards, which realize the physics probability are given on the following processory facility: environment temperature (2) an)     Cal Date (Certificate No.)     30-Mar-23 (No. 217-03804/03805)     30-Mar-23 (No. 217-03804)     05-Oct-23 (OCP-DAK3.5-1248 Oct     05-Oct-23 (OCP-DAK3.5-1248 Oct     05-Oct-23 (OCP-DAK3.5-1248 Oct     05-Mar-23 (No. 217-03809)     16-Mar-23 (No. 217-03809)     16-Mar-23 (No. 217-03809)     06-Jar-23 (No. 253-3013_Jan23)     Of-Jar-23 (No. ES3-3013_Jan23)     Of-Jar-23 (No. ES3-3013_Jan23)     Of-Apr-16 (In house check Jun-22)     06-Apr-16 (In house check Jun-22)     04-Aug-99 (In house check Jun-22)	ages and are part of the certificate. 2 ± 3)*C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 23) Oct-24 23) Oct-24 23) Oct-24 Mar-24 Mar-24 Mar-24 Mar-24 Mar-24 In house check: Jun-24 In house check: Jun-24 In house check: Jun-24 In house check: Jun-24 In house check: Jun-24			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Power sensor NRP-29 DOP DAK-35 (weighte OCP DAK-12 Reference 20 dB Atjan DAE4 Reference 20 dB Atjan DAE4 Reference Probe ES3D Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A TF generator HP 86480	Be documents the traceability the uncertainties with confider     een conducted in the closed labor     used (M&TE critical for calibrati      SN: 104778     SN: 104778     SN: 102244     SN: 1016     ustor SN: CC2852 (20x)     SN: 660     W2     SN: 3013      ID     SN: GB41293874     SN: WY41499087     SN: WY41499087     SN: WY41499087     SN: US41080477	o reformal standards, which realize the phys nee probability are given on the following pa protory facility: environment temperature (2 an) Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 36-Mar-23 (No. 217-03804) 06-Oct-23 (OCP-DAK15-1016, Oct 30-Mar-23 (No. 217-03809) 16-Mar-23 (No. 217-03809) 16-Mar-23 (No. 253-3013_Jan23) O6-Jan-23 (No. ES3-3013_Jan23) 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-Avg-99 (in house check Jun-22) 31-Mar-14 (in house check Jun-22)	ages and are part of the certificate. 2 ± 3)*C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 23) Oct-24 23) Oct-24 23) Oct-24 23) Oct-24 23) Oct-24 24 24 24 23) Scheduled Check In house check: Jun-24 In house check: Jun-24			
This calibration certific The measurements an All calibrations have be Calibration Equipment Primary Standards Power sensor NRP2 Power sensor NRP2 Power sensor NRP2 DCP DAK-12 Reference 20 dB Atten DAE4 Reference 20 dB Atten DAE4 Reference Probe ES30 Secondary Standards Power meter E4419B Power sensor E4412A Reference HP 86480 Vetwork Analyzor E835	Alle documents the traceability the uncertainties with confider een conducted in the closed labor used (M&TE critical for calibrating SN: 104778 to SN: 104778 to SN: 103244 to SN: 102864 to SN: 1016 to SN: 660	De reational standards, which realize the physics probability are given on the following parameters probability are given on the following parameters (2) and (2)	ages and are part of the certificate. 2 ± 3) *C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 23) Oct-24 23) Oct-24 23) Oct-24 23) Oct-24 23) Oct-24 24 24 24 24 24 25 26 26 27 27 27 27 27 27 27 27 27 27			

The report shall not be (partly) reproduced except in full without approval of the laboratory.

# HCT

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



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

Accreditation No.: SCS 0108

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

#### Glossary

5 115 Perfection 2010	
TSL NORMx,y,z CanvF DCP CF	tissue simulating liquid sensitivity in TSL / NORMx,y,z diode compression point crest factor (3/duty, cycle) of the RF signal
A, B, C, D	
	modulation dependent linearization parameters
Polarization $\varphi$	
Polarization 0	$\theta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta = 0$ is normal to probe axis
Connector Angle	Information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

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

#### Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization ∂ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below *ConvF*).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
   Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z* \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angler: The angle is assessed using the Information gained by determining the NORMx (no uncertainty required).

Cartificate No. EX.7899 Mourse

Pear A +LAN



#### November 24, 2023

# Parameters of Probe: EX3DV4 - SN:7622

# **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc $(k=2)$
Norm (μV/(V/m) <sup>2</sup> ) <sup>A</sup>	0.62	0.67	0.58	±10.1%
DCP (mV) B	109.1	106.5	109.5	±4.7%

# Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	c	D dB	WR mV	Max dev.	Max Unc <sup>E</sup> k = 2
0	CW	X	0.00	0.00	1.00	0.00	120.4	±3.5%	±4.7%
		Y	0.00	0.00	1.00		111.0		
1000200	12400 100 - 20 - 00000 - 0000	Z	0.00	0.00	1.00	1	115.7		
10352	Pulse Waveform (200Hz, 10%)	X	1,52	60.64	6.40	10.00	60.0	±0.5%	±9.6%
		Y	1.75	61.69	7.06		60.0		
	and the second se	Z	1.47	60.00	6.12	-	60.0		
10353	Pulse Waveform (200Hz, 20%)	X	0.85	60.00	5.10	6.99	80.0	±0.4%	±9.6%
		Y	0.81	60.00	5.14	-	80.0		12000
2015-1-1		Z	0.94	60.00	5.15	-	80.0	1	
10354	Pulse Waveform (200Hz, 40%)	X	0.49	60.00	4.03	3.98	95.0	±0.6%	±9.6%
		Y	0.05	124.26	0.23		95.0		
20112-02		Z	0.53	60.00	4.18		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	10.29	156.83	3.22	2.22	120.0	±0.7%	+9.6%
		Y	8.08	158.75	26.21		120.0		
		Z	16.31	155.45	0.05		120.0		
10387	QPSK Waveform, 1 MHz	X	0.60	64.40	12.96	1.00	150.0 ±0.8%	±9.6%	
		Y	0.49	81.74	61.74 10.93 150.0				
		Z	0.58	63.79	12.13		150.0		
10388	QPSK Waveform, 10 MHz	X	1.39	66.26	14.25	0.00	150.0	±0.8%	±9.6%
		Y	1,22	64.27	13.01		150.0		2.0.0.10
-		Z	1.35	相5.73	13,74		150.0	-	
10396	64-QAM Waveform, 100 kHz	X	1.70	64.64	15.99	3.01	150.0	±0.7%	±9.6%
		Y	1,66	64.20	15.69		150.0	0.94-17.70	201010
		2	1.84	65.81	16.33		150.0		
10399	64-QAM Waveform, 40 MHz	X	2.84	66.35	15.11	0.00	150.0	±0.8%	±9.6%
		Y	2.84	66.23	14.94		150.0		
		Z	2.84	66.33	14.99	1	150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	3.97	66.58	15.54	0.00	150.0	±0.7%	±9.6%
		Y.	3.86	65.94	15.17		150.0	2	
		Z	3.83	65.95	15.15		150.0	8	

Note: For details on UID parameters see Appendix

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

A The uncertainties of Norm X,Y,Z de nut affect the E<sup>2</sup>-Seld uncertainty balds TBL (see Pages 5 and E). B Linearization parameter uncertainty for maximum specified field strength. E Uncertainty is detaimined using the max. deviation from linear response applying rectangular distribution and is expressed for the equare of the field value.

Certificate Nnº FX-7699 Nm/94

Doos 0 et 00



November 24, 2023

5

# Parameters of Probe: EX3DV4 - SN:7622

## Sensor Model Parameters

	C1 IF	C2 fF	α V <sup>-1</sup>	T1 msV <sup>-2</sup>	T2 msV <sup>-1</sup>	T3 ms	T4 V-2	T5 V-1	T6
X.	10,2	71.57	31.90	5.27	0.00	4.90	0.44	0:00	1.00
У	10.4	74.98	33.01	3.40	0.00	4.94	0.52	0.00	1.00
ž –	10.1	71.42	31.99	7.10	0.00	4.90	0.70	0.00	1.00

### Other Probe Parameters

Sensor Arrangement	Trianguiar
Connector Angle	48.4*
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	mm e
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1.mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	5:4 mm

Note: Messurement distance from aurface can be increased to 3-4 mm for an Aree Scan job.

Cartificate No: EY.7899 Neuros



#### November 24, 2023

# Parameters of Probe: EX3DV4 - SN:7622

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
750	41.9	0.89	10.02	9.37	10.06	0.54	1.27	±12.0%
835	41.5	0.90	9.46	9.41	9.45	0.51	1.27	±12.0%
900	41.5	0.97	9.85	8.90	9.20	0.51	1.27	±12.0%
1450	40.5	1.20	9.00	8,49	8.87	0.65	1.27	±12.0%
1750	40.1	1.37	8.89	8.35	8.72	0.32	1.27	±12.0%
1900	40.0	1.40	8.60	8.16	8.42	0.33	1.27	±12.0%
2000	40.0	1.40	8.43	7.97	8.27	0.34	1.27	±12.09
2450	39.2	1.80	7.99	7.60	7.82	0.32	1.27	±12.09
2600	39.0	1.96	7.89	7.52	7.77	0.31	1.27	±12.0%
3300	38,2	2.71	7:23	6.98	7.18	0.36	1.27	±14.0%
3500	37.9	2.91	7.12	6.89	7.07	0.36	1.27	±14.0%
3700	37.7	3.12	7.03	6.78	7.00	0.36	1.27	±14.09
3900	37.5	3.32	6.89	6.67	6.86	0.37	1,27	±14.0%
4100	37.2	3.53	6.60	6.40	6.59	0.38	1.27	±14.0%
4400	36.9	3.84	6.40	6,21	6.38	0.38	1.27	±14.0%
4600	36.7	4.04	6.37	6.22	6.36	0.38	1.27	±14.0%
4800	36.4	4.25	6.36	6.20	6.38	0.38	1.27	±14.0%
4950	36,3	4.40	5.95	5.85	5.97	0.46	1.36	±14.0%
5250	35.9	4.71	5.75	5.66	5.76	0.39	1.64	±14.0%
5600	35.5	5.07	5.02	4.99	5.05	0.45	1.67	±14.0%
5750	35.4	5.22	5.15	5.08	5.14	0.43	1.75	±14.0%
5800	35.3	5.27	5.05	4.95	5.05	0.44	1.78	±14.0%

C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the PISS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 90 and 70 MHz for ConvF assessments at 30, 94, 138, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is ±0.4 MHz, and ConvF assessed at 13 MHz is b-19 MHz. Above 50 GHz frequency validity can be extended to ±10 MHz. The protees are calibrated using tissue simulating liquids (TSL) that deviate for c and *x* by lises than ±5% from the larget values (kpically before than ±5%) and are valid for TSL with deviations of to ±10 %. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1% or 0, -3 GHz and 13,1% for 3 - 6 GHz.

B Alpha/Depth are determined during cellbration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±8% for frequencies between 3-6 GHz at any distance larger than half the probe fip diameter from the boundary.

Cortificate No: EV.7822 Minu22



November 24, 2023

# Parameters of Probe: EX3DV4 - SN:7622

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
6500	34.5	6.07	5.79	5.85	5.82	0.20	2.00	±18.6%

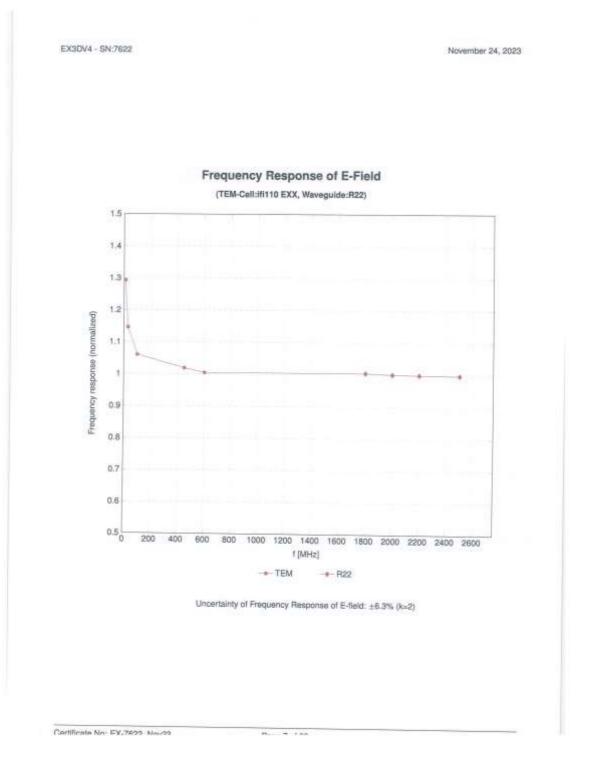
<sup>G</sup> Prequency weldly at 6.5 GHz is ~800/4700 MHz, and ±700 MHz, at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration prequency and the uncertainty for the indicated frequency band.
<sup>F</sup> The probes are calibrated using tissue nimulating liquids (TSL) that deviate for *e* and *o* by less than ±10% from the target values (typically better then ±0%) and are valid for TSL. With deviations of up to ±10%.
<sup>G</sup> Apha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect effer compensation is always less than ±1% for frequencies between 5–6 GHz; and below ±4% for frequencies between 5–10 GHz at any distance lamer than that the next text. larger than half the probe tip diameter from the boundary.

Cartificate No: FX.7602 Nov25

Barris a stan





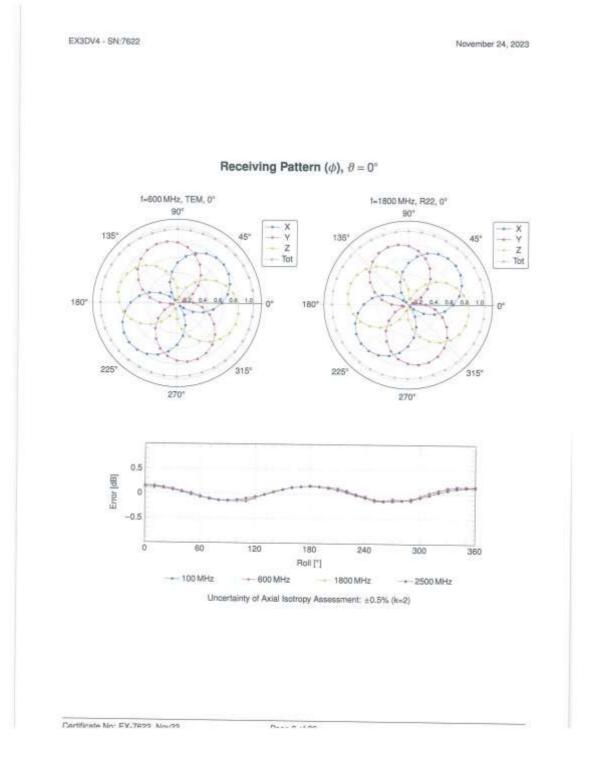


F-TP22-03 (Rev. 06)

The report shall not be (partly) reproduced except in full without approval of the laboratory.



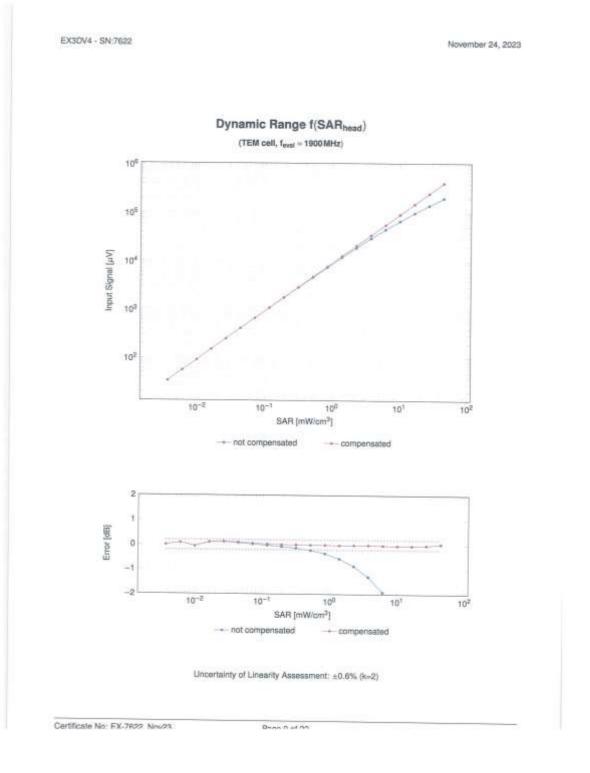




F-TP22-03 (Rev. 06)

Page 31 of 193

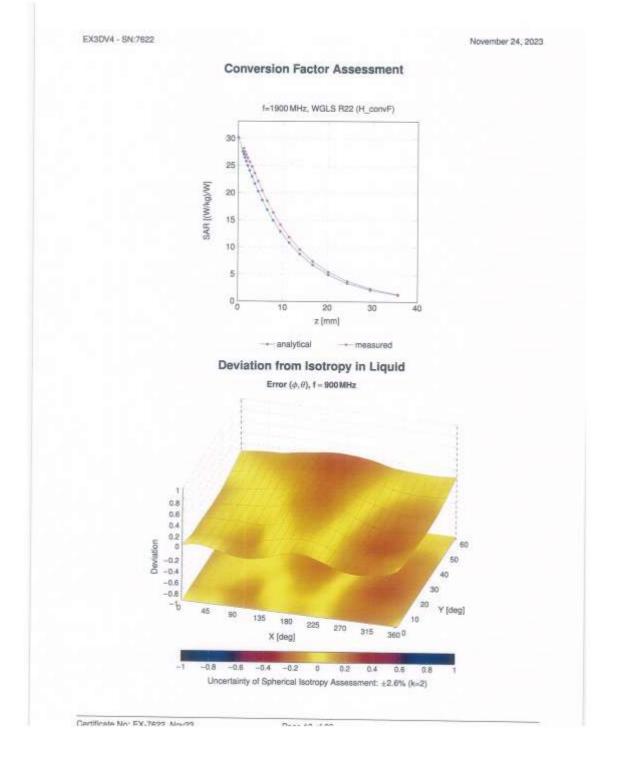




F-TP22-03 (Rev. 06)

The report shall not be (partly) reproduced except in full without approval of the laboratory.





The report shall not be (partly) reproduced except in full without approval of the laboratory.



## November 24, 2023

# Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Uno <sup>E</sup> # =
0		CW	CW	0.00	±4.7
10010	CAB	SAR Veldation (Square, 100 ms, 10 ms)	Terst	50:00	±9.8
10011	CAC	UMTS-FDO (WCDMA)	WCDMA	2,91	±9.6
10012	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10013	CA8	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10051	DWC	GSM-FDO (TDMA, GMSK)	GSM	9.39	19.6
10025	DAC	GPRS-FDD (TDMA, GMSK, TN d)	GSM	9.57	±9.6
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	8.56	29.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.82	±9.6
10.025	DAC	EDGE FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
10027	DAC	OPRS-FDD (TDMA, GMSK; TN 0-1-2)	GSM	4.80	19.6
10028	DAG	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	OSM	3.55	±9.6
10.029	DAC	EDGE-FDD (TDMA, BPSK, TN 0-1-2)	GSM	7.78	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, OH1)	Bluetooth	5.30	±9.6
10031	CAA	IEEE 802.15,1 Bluetooth (GFSK, CH3)	Bluetooth	1.87	±9.5
10032	CAA	IEEE 802.15.1 Biuetooth (GFSK, CH5)	Bluetpoth	1.18	±9.8
10033	CAA	IEEE 802.15.1 Bluetooth (PI4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (P14-DQPSK, DH3)	filuetooth	4.53	±9.6
10.035	CAA	IEEE 802-15-1 Bluetooth (P14-DQPSK, 0H5)	Bluetooth	3.83	19.6
10036	CAA	IEEE 802.15.1 Buetooth (8-OPSK, DH1)	Bluelpoth	8.01	19.6
18037	CAA	IEEE 602.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (B-DPSK, DH5)	Illuetooth	4.10	±9.6
10.039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2060	4.10	±9.6 ±9.6
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, Pt4-DQPSK, Halhate)	AMPS	4.8/	
10044	CAA	18-91/EIA/TIA-553 FDD (FOMA, FM)	AMPS	and the second se	29.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Stot, 24)	DECT	0.00	±9.6
10649	CAA	DECT (TDD, TDMA/FDM, GFSR, Double Stat, 12)	DEGT	13.80	±9.6
10.058	CAA	UMTS-TDD (TD-SCDMA, 1.26 Mops)		10,79	±9.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	TD-SCDMA	11.01	±9.6
10.059	CAB	IEEE 802.11b WFI 2.4 GHz (DSSS, 2 Mbps)	GSM	6.52	±9.6
10060	CAB	IEEE 802.11b WIF12.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.12	±8.8
0061	CAB	IEEE 802.11b WFI 2.4 GHz (D555, 11 Mbps)	WLAN	2.83	±9.6
0062	CAD	IEEE 802.11a/h WFI 5 GHz (OFDM, 6 Mbps)	WLAN	3.60	39.¢
0063	CAD	IEEE 802.11wh WFI 5 GHz (OFDM, 8 Mops)	WLAN	8.68	±9.6
0064	CAD	IEEE 802.11a/h WFI 5 GHz (OFDM, 12Mbps)	WLAN	8.63	±9.6
0065	CAD	IEEE 802.11a/h WFI 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	29.6
0066	CAD	IEEE 802.11a/h WFI 5 GHz (OFDM, 16 Mtgs)	WLAN	5.00	29.8
10067	CAD	IEEE 802.11a/r WFI 5 GHz (CFDM, 36 Mbps)	WLAN	9:38	±9.6
0066	CAD		WEAN	10.12	±9.6
0.069	CAD	EEE 802 11ah WEI 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	土田 旧
0071	CAB	IEEE 802.11a/h WFi 6 GHz (OFDM, 54 Mbps)	WLAN	10.56	£9.8
0072	CAB	IEEE 802.11g WFI 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	0.80	土田,后
0072	CAB	IEEE 802 11g WFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
0073	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	19.6
0074	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	29.0
		IEEE 802,11g WiFi 2,4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
0075	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	10.6
0077	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	10.0
0083	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
0.082	CAB	45-54 / IS-136 FOD (TOMA/FDM, PV4-DQPSK, Fullrate)	AMPS	4.77	±9.6
0096	DAC	GPRS-PDD (7DMA, GMSK, TN 0-4)	GSM	6.56	±9.6
0.097	CAG	UMTS-FOD (HSDPA)	WCDMA	3.98	±9.6
8800	CAC	UMTS-FD0 (HSUPA, Subwel 2)	WCDMA	3.96	10.0
	DAC.	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	28.6
	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	19.6
	CAF	LTE-FDD (SC FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	19.0
	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	19.6
	CAH	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	19.6
	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TOD	9.29	±9.6
	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TOD	10.01	
	CAH	LTE-FOD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	19.6
0109	CAH	LTE-FDD (SC-FDMA, 100% RE, 10 MHz, 15-QAM)	LTE-FDD	the second se	±9.6
	CALL!	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)		6,43	2.01
	CAH	CTUTTON (COPUNIE, TUTTE HILL, DIMPE, CIPER)	LTE-FOD	5.75	±9.6

Certificate No: FX-7699 Nm/99

Dens 14 at DO



November 24, 2023

UID	flev.	Communication System Name	Group	PAR (dB)	Uno <sup>n</sup> k =
10112	CAH	LTE-FOD (SC-FOMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±8.6
10115	CAH	LTE-FDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)	LTE-FDD	6.62	19.8
10114	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAD	IEEE 802.11n (HT Greenfield, 81 Mops, 18-QAM)	WLAN	8.46	19.6
10116	CAD	IEEE 802.11n (HT Greenfield, 135 Mbps, 54-QAM)	WLAN	8.15	±9.6
10117	CAD	IEEE 802.11n 047 Mixed, 13.5 Mbox, BPSK)	WLAN	8.07	19.6
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 15-QAM)	WLAN	8.59	+9.6
10119	CAD	IEEE 802.11n (HT Mixed, 135Mbps, 64-QAM)	WLAN	8.13	
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-FDD		19.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)	LTE-FDD	6.49	#B.6
10142	CAF	LTE-FOD (SC-FDMA, 100% RB, 3MHz, QPSK)			±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3MHz, 16-QAM)	LTE-FDD	8.73	:9.8
10144	CAF	LTE-FOD (SC-FOMA, 100% RB, 3MHz, 64-QAM)	LTE-FDD	6.35	±9.6
10145	CAG		LTE-FDD	6.65	±9.6
10146	CAG	LTE-FOD (SC-FOMA, 100% RB, 1.4 MHz, OPSK)	LTE-FDD	5,76	±9.6
	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147		LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.77	±9.6
10145	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 18-QAM)	LTE-FDD	5.42	\$9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDO	08.8	±9.6
10151	CAH	LTE-TOD (SC-FOMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TOD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDO	10.05	±9.8
10:154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FOO	5.75	±8.5
10165	CAH	LTE-FDD (SC-FDMA, 50% R8, 10 MHz, 16-DAM)	LTE-FDO	6.43	±8.8
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	L7E-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% R8, 5 MHz, 16-QAM)	LTE-FDD	6.49	19.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	
10159	CAH	LTE FDD (SC-FDMA, 50% PB, 5 MHz, 54-QAM)	LTE-FDD	6.55	±9.6
10180	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD		±9.6
10161	CAF	LTE FDD (SC-FDMA, 50% RB, 15 MHz, 15-QAM)		5.82	±9.6
10162	CAF	LTE-FOD (SC-FDMA, 50% R8, 15MHz, 84-QAM)	LTE-FOD	6.43	主导.章
10168	CAG	LTE-FOD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	6,58	±8.8
10167	CAG		LTE-FDD	5.46	±9.6
10168	GAG	LTE-FDD (SC-FCMA, 50% RB, 1.4 MHz, 18-QAM)	LTE-FDD	6.71	19.8
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FOD	8.79	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20MHz, QPSK)	LTE-FOD	5.70	±9.8
10171	AAF	LTE FDD (SC-FDMA, 1 BB, 20MHz, 16-GAM)	LTE-FDD	6.52	±9.6
		LTE-FDD (SC-FDMA, 1 RB, 20MHz, 64-QAM)	LTE-FOD	6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GPSK)	LTE-TOD	9.21	±9.6
10173	CAH	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 18-QAM)	LTE-TDD	9.48	±9.6
10134	CAH	LTE-TOD (SC-FDMA, 1 FIB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.0
10175	CAH	LTE-FOD (SC-FDMA, 1 BB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.0
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-GAM)	LTE-FDD	8.52	±9.6
10177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.78	±9.6
10178	CAH	LTE-FDD (BC-FDMA, 1 AB, 5 MHz, 16-QAM)	LTE-FDD	6.82	19.6
10179	CAH	LTE-FDD (SC-FOMA, 1 RB, 10 MHz, 84-QAM)	LTE-FCO	5.50	±9.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±8.0 ±8.6
10181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15MHz, GPSK)	LTE-FDD	5.72	±9.6
10182	CAF	LTE-FOD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	
10183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15MHz, 64-QAM)	LTE-FOD	6.90	±9.6
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, GPSK)	LTE-FOD		±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)		6.73	29.6
0185	AAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)	LTE-FOD	6.51	±9.6
10187	GAG	LTE FDD (SC-FOMA, 1 RB, 1.4 MHz, OPSK)	LTE-FDD	6.50	19.6
10188	CAG.	UTE-FOD (SC-FDMA, 1 RB, 1.4 MHz, 04-SK)	LTE-FDD	5.73	±9.6
10180	AAG	TTE EDD ISC FOMA 1 DD 1 AMUS 21 OMM	LTE-FDD	6.52	19.8
0193	CAD	LTE-FDD (BC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
0.194	CAD	IEEE 802 11n (HT Greenfield, 6.5 Mbps, 8PSK)	WLAN	8.09	±9,6
0194		IEEE 802.11n (HT Greenfeld, 39 Mbps, 15-QAM)	WLAN	8.12	±9.6
	CAD	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	38.6
	CAD	IEEE 802.11n (HT Mixed, 6.5 Mtgs, 8PSK)	WLAN	8.10	19.6
	CAD	IEEE 802.11/s (HT Mixed, 39Mbps, 18-QAM)	WLAN	8.13	49.6
	CAD	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	19.0
	CAD	IEEE 802.11n (HT Mixed, 7.2 Mops, BPSK)	WLAN	8.03	±9.6
	CAD	IEEE 802.11n (HT Mbod, 43.3 Mbps, 16-QAM)	WLAN	0.13	19.6
and the second se	GAD.	IEEE 802.51n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	
0.222		IEEE 802.11n (HT Mixed, 15 Mbps, 8PSK)	WLAN		±8.6
0229	CAD	IEEE 802.11/r (HT Mixed, 90 Mbps, 16-QAM)		8.06	19.6
statement and statement	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.48	±9.6
	1000	the first second s	WLAN	8.08	±0.0

Certificate No- EX-7822 New29

Dees 10.45 pp



## November 24, 2023

uip	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>h</sup> ii =
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10228	CAC	LTE-TOD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TOD	0.49	19.6
10227	CAC	LTE-TOD (SC-FDMA, 1 RB, 1.4 MHz, 54 QAM)	LTE-TOD	10100	
10228	CAC	LTE-TOD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)		10.26	±9.6
10229	CAF	LTE-TDD (SC-FDMA, 1 RE, 3MHz, 16-QAM)	LTE-TOO	9.22	±8.5
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3MHz, 54-QAM)	LTE-TDO	9.48	±9.6
10231	CAE		LTE-TOO	10.25	±9.6
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 3MHz, QPSK)	LTE-TOD	9.19	±0.6
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 15-QAM)	LTE-TDD	9.48	19.6
		LTE-TOD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10234	CAH	LTE-TOD (SC-FOMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6
10.235	CAH	LTE-TOD (SC-FOMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10236	CAH	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10.237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10MHz, QPSK)	LTE-TDO	9.21	±9.6
10238	CAG	LTE-TDD (SC-FOMA, 1 R8, 15MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM)	LTE-TOD	10.25	±8.6
10240	CAG	LTE-TDD (SC-FDMA, 1 BB, 15MHz, QPSK)	LTE-TDD	9.21	19.6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, 16-QAM)	LTE-TOO	9.82	±9.6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-DAM)	LTE-TDD	9.86	19.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TOD	9.46	
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD		±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3MHz, 64-QAM)		10.06	±9.6
10248	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	10.06	±9.6
10247	CAH	LTE-TIDO (SC-FDMA, SD% RB, SMHZ, 16-QAM)	LTE-TDD	8.30	+9.6
10248	CAH	LTE-TOD (SC-FDMA, 50% R8, 5 MHz, 19-QAM)	LTE-TDD	9.91	±9.6
10249	GAH		LTE-TDD	10.09	太9.6
	A service should be	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±8.6
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10MHz, 16-QAM)	LTE-TDD	9.81	±9.8
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 54-QAM)	LTE-TDD	10.17	±9.6
10.252	CAH	UTE-TOD (SC-FOMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±8.6
10,253	CAG	LTE-TDD (SC-FOMA, 50% RB, 1SMHz, 16-QAM)	LTE-TOD	9.90	±9.6
10:254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10.255	CAG	LTE-TDD (SC-FDMA, 50% AB, 15 MHz, QPSK)	LTE-TOD	9.20	+9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, 18-QAM)	175-700	9.96	19.6
10257	CAC	LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TOO	10.08	±9.6
0258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
10259	CAE	LTE-TOD (SC-FDMA, 100% RB, 3 MHz, 18-QAM)	LTE-TDD	9.98	
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM)	LTE-TDD		±9.6
10261	CAE	LTE-TOD (SC-FDMA, 100% RR, 3 MHz, QPSK)	LTE-TDD	9.97	±9.6
10262	CAH	LTE-TOD (SC-FDMA, 100% R8, 5MHz, 16-QAM)			±9.6
10.263	CAH	LTE-TOD (SC-FOMA, 100% RB, 5MHz, 64-QAM)	LTE-TDD	9.83	±9.6
10.264	CAH	LTE-TDD (SC-FOMA, 100% RB, 6MHz, GPSK)	LTE-TDO	10.18	±8.8
0.265	CAH	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, 18-QAM)	LTE-TDD	9.23	±9.6
0.266	CAH	LTE-TDD (SC-FDMA, 100% R8, 10 MHz, 64-QAM)	LTE-TDO	9.92	±8.8
0267	CAH		LTE-TOD	10.07	#9.6
0268	CAG	LTE-TDD (SC-FOMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.0
	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TOD	10.06	\$9.6
0269		LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)	LTE-TDD	10,13	19.6
0270	CAG	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, GPSK)	LTE-TOD	9.58	19.6
0274	CAC	UMTS FDD (HSUPA, Subtret 5, 3GPP Rel8.10)	WCDMA.	4.87	±9.6
0275	CAC	UMTS-FDD (HSUPA, Subtest 5, 33PP Rel8.4)	WCDMA	3.96	±9.6
0277	CAA	PHS (QPSK)	PHS	11.81	19.6
0.278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.5
0.279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	10.6
0290	AAB	CDMA2000, RC1, SO55, Full Rate	COMA2000	3.91	±9.5
0291	AAB	CDMA2000, RC3, SO55, Full Rate	COMA2000	3.46	±9.0
0292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	
0293	AAB	CDMA2000, RC3, SO3, Full Rate	COMA2000	100 C F	28.6
0295	AAB	COMA2000, RC1, SO3, 1/8th Rate 25 lt.	CDM42000	3.50	19.6
0297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)		12.49	£9.0
0298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5,81	±9.6
and the second se	AAE	LTE-FOO (SC-FOMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	5,72	±9.6
	AAE	LTE-FDD (SC-FDMA, 50% RB, 3MHz, 84-QAM)	LTE-FDD	8.39	±9.6
Contract of the local division of the local	AAA		LTE-FDD	5.60	±9.6
	AAA	IEEE 802 16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WIMAX	12.03	±8.6
	and so it is a little	IEEE 802.16e WIMAX (29.16, 5ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WMAX	12.67	±8.6
the second se	AAA	IEEE 802.16e WIMAX (31:15, 5ms. 10 MHz, 64QAM, PUSC)	WMAX	12.52	±9.6
	AAA	IEEE 802,15e WIMAX (20:10, 5ms, 10 MHz, 540AM, PUSC)	WIMAX	11.86	3.9.6
0005	AAA	IEEE 802.16e WIMAX (31:15, 10 ma, 10 MHz, 64QAM, PUSC, 15 avmocia)	WIMAX	15.24	1.9.6
3000		IEEE 802.16e WIMAX (29.18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)			

Certificate No: EX-7695 Mex-29

Pere 10 -1 P.T



### November 24, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>®</sup> k =
10307	AAA.	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	±9.6
10306	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WMAX	14.46	±9.6
10309	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WIMAX	14.58	19.6
10310	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WIMAX	14.57	g9.6
10311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15MHz, GPSK)	LTE-FOD	6.05	19.6
10313	AAA	(DEN 1.9	IDEN	10.51	±9.6
10314	AAA	IDEN 1:8	IDEN	13.48	19.6
10315	AAB	IEEE 882.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	19.6
10316	AAB	IEEE 802 11g WFI 2.4 GHz (ERP-OFDM, 6 Mops, 96pc duty cycle)	WLAN	8.30	19.0
10317	AAE	IEEE 802.11a WIFI 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic		±9.6
10358	AAA	Puise Waveform (200Hz, 20%)	Generic	10.00	±8.6
10364	AAA	Pulse Waveform (200Hz, 40%)			±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	3.98	±9.6
10356	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10387	AAA	OPSK Waveform, 1 MHz	Generic	0.97	29.6
10388	AAA		Generic	5.10	±9.6
10396	AAA	OPSK Waveform, 10 MHz	Generic	5.22	法免疫
		54-CAM Waveform, 100 kHz	Generic	6,27	±9.6
10.399	AAA	64-QAM Waveform, 46 MHz	Generic	6.27	±9.8
10400	AAE	IEEE 802.11 ac WIFI (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8,37	±8.8
10.401	AAE	IEEE 802.11ac WIFI (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10402	AAE	IEEE 802.11ac WIFI (80 MHz, 64-QAM, 98pc duty cycle)	WLAN	8.53	3.9,6
10:403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3,76	19.6
10404	AAB	COMA8000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.8
10406	AAB	CDMA2000, RC3, SC32, SCH0, Full Rate	CD64A2000	5.22	48.6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10MHz, GPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDO	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	+9.6
10415	AAA	IEEE 802 11b WIFI 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	+9.6
10416	AAA	IEEE 802.11g WFI 2.4 GHz (ERP-OFDM, 6 Mops, 99pc duty cycle)	WLAN	8.23	:18
10417	AAC:	IEEE 802 11a/h WiFi 5 GHz (OFDM, 6 Mbps, trips duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WIFL2.4 GHz (DSSS-OFOM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	5.14	±9.6
10419	AAA	IEEE 802.11g WFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle, Short preambule)	WLAN	8.19	+9.6
10422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mtps, BPSK)	WLAN	8.32	19.6
10423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	19.6
10424	AAC	IEEE 002.11n (HT Greenfield, 72.2 Mope, 64-QAM)	WLAN	8.40	19.6
10.425	AAC	IEEE 802.11n (HT Greentield, 15 Mbps, BPSK)	WEAN	8.41	
10426	AAC	IEEE 802.11n (HT Groenfield, 90 Mitce, 18-GAM)	WLAN	8.45	±9.8
10427	AAC	IEEE 802.11n (HT Greenfield, 160 Mbps, 64-QAM)	WLAN		19.6
10.430	AAE	LTE-FDD (OFDMA, 5MHz, E-TM 3.1)	LTE-FDD	8.41	±9/6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)		8.29	±9.6
10.432	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDO	8.38	土泉市
0433	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10434	AAR	W-CDMA (BS Test Model 1, 64 DPCH)	LTE-FD0	8.34	±9.6
10435	AAG	TETOTOTOTOTOTOTOTO	WCDMA	8.60	±9.6
0447	AAE	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subtrameric3,4,7,8,9) LTE-FOD (OFDMA, SMPtr, E-TM 3.1, Citipping 44%)	LTE-TDD	7.82	±9.0
0448	AAE	LTE-FDD (OFDMA, 19MHz, E-TM 3.1, Cippin 44%)	LTE-FOD	7.50	±9,6
10449	AAD	LTE-FOD (OFDMA, 10MHz, E-M 3.1, Cippin 44%) LTE-FOD (OFDMA, 15MHz, E-TM 3.1, Ciping 44%)	LTE-FDD	7.53	±9.0
0450	AAD	TTE FOD (OFDIMA 2014) - 5 TH 21, CIPIC 44%)	CTE-FDD	7.51	±8.6
0451	AAB	LTE-FDD (CFDMA, 20MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9,6
	- interaction	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
0.453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
0.456	AAC	IEEE 802.11ac WIFI (160 MHz, 64-QAM, 99pc duty cycla)	WLAN	B.63	19.6
0.457	AAB	UMTS-FOD (DC-H\$DIM)	WEDMA	5.62	10.6
0458	AAA.	CDMA2000 (1xEV-DO; Rev. B, 2 carriers)	COMA2000	6.55	+9.6
0.459	AAA	CDMA2000 (1xEV-00, Rev. B. 3 carriers)	COMA2000	8.25	19.6
0460	AAB	UMTS-FDD (WCDMA, AMR)	WCOMA	2.39	28.6
0461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subliame=2,3,4,7,8,9)	LTE-TOD	7,82	±9.6
0462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subtratiev2,3,4,7,8,9)	LTE-TOD	8.30	19.0
0.463	AAC.	LTE-T00 (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframes/2.3.4.7.8 St	LTE-TOD	8.58	19.6
0464	AAD	LTE-TDO (SC-FDMA, 1 R8, 3MHz, QPSK, LL Sutiframe=2.3.4.7.8.9)	LTE-TDD	7.82	19.6
0.495	AAD	LTE-TCO (SC-FDMA, 1 R8, 3 MHz, 16-QAM, UL Subframe=2.3, 4, 7, 8, 9)	LTE-TDD	8.32	19.6
0.466	AAD	LTE-TDD (SC-FOMA, 1 PB, 3 MHz, 64-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TDD	8.57	+9.6
0467	AAG	LTE-TDD (SC-FOMA, 1 RB, 5 MHz, OPSK, UL Subtrames2.3.4.7.8.9)	LTE-TOO	7.82	±8/0 ±8/6
0.468	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-DAM, UI, Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	
0469	MAG	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 64-QAM, UK, Subtama=2.3.4.7.8.9)	LTE-TOD	and the second se	±8.6
0470	AAG.	LTE-TDD (SC-FDMA, 1 RB, 10MHz, QPSK, UL Subirame-2,3,4,7,8,9)	the billion of the second second	8.50	±8.6
		LTE-TDD (SC-FDMA, 1 RB, 10MHz, 18-QAM, UL Subtrame-2.3,4,7,8,9)	LTE-TOD	7.82	19.6
		the start of the second s	LTE-TOD	8.32	±0.6

Certificate No: EX-7622 Nov23

Pons 14 al 95



### November 24, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> R = 3
10:472	AAG	LTE-TDD (SC-FOMA, 1 PB, 10 MHz, 64-QAM, UL Subhame-2.3,4,7,8,9)	LTE-TDD	8.57	19.6
10473	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UI, Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10474	AAF	LTE-TOD (SC-FDMA, 1 RB, 15 MHz, 15-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	+9.6
10475	AAF	LTE-TDD (SC-FDMA, 1 R8, 15MHz, 84-QAM, UL Subhame-2,3,4,7,8,9)	LTE-TDD	8.57	±0.6
10.477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20MHz, 16-QAM, UL Subhame+2,3,4,7,8,9)	LTE-TDO	8.32	19.6
10.478	ANG	LTE-TDD (SC-FDMA, 1 RB, 20MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subhame-2,3.4,7.8.9)	LTE-TOO	7.74	
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subltame=2,3,4,7,8,9)	LTE-TOD	17.57.5	+0.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4MHz, 64-QAM, IJ, Subhame-2,3,4,7,8,9)		8.18	±9.8
10482	AAD	LTE-TDD (SC-FDMA, 50% R8, 3 MHz, QPSK, UL Subtrane=2,3,4,7,8,9)	LTE-TOD	8.45	±0.6
10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7,71	::9.6
10484	AAD	LTE-TDD (SC-FDMA, 50% R8, 3 MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9)	the second se	8.99	3.9 €
10485	AAG	LTE-TOD (SC-FDMA, 50% RB, 5 MHz, QPSK, LL Subhamev2,3,4,7,8,9)	LTE-TOD	8.47	19.6
10486	AAG		LTE-TDD	7.59	±9.0
10487	AAG	LTE-TDD (SC-FDMA, 50% R8, 5 MHz, 16-GAM, UL Subframe+2.3,4,7,8,0)	LTE-TOD	8.38	19.6
0488	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UI, SubIrame=2,3,4,7,8,9)	LTE-TOD	8.60	±9.6
10.480	AAG	LTE-TOD (SC-FDMA, 50% RB, 10MHz, GPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7,70	±9.6
	and the second	LTE-TDO (SC FOMA, 50% RB, 10 MHz, 16-QAM, UL Subhame-2,3,4,7,8,9)	LTE-TDD	8.91	±9.6
0.490	AAB	LTE-TOD (SC-FDMA, 50% RB, 10 MHz, 54-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.8
10491	AAF	LTE-TOD (SC-FOMA, 50% RB, 15 MHz, QPSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD	2,74	±9.6
0.492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subhama=2,3,4,7,8,9)	LTE-TDD	8,41	±9.6
10-495	AAF	LTE-TOD (SC-FDMA, 50% HB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,8)	LTE-TDD	8.55	±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TDO	7.74	±9.6
0495	AA3	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-DAM, UL Subframe=2.0,4.7,8.9)	LTE-TDD	8.27	±9.5
10498	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subtrame=2,5,4,7,8,9)	LTE-TOD	8.54	19.6
10497	ANC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE/TDO	7.67	±9.6
0498	AAC	LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.40	±9.6
0499	AAC	LTE-TDD (8C-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
0500	AAD.	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subhame=2,3,4,7,8,9)	LTE-TOD	7.67	19.6
0501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-DAM, UL Subtrame-2,3,4,7,8,9)	LTE-TDD	8.44	19.6
0602	AAO -	LTE-TDD (SC-FDMA, 100% FIB, 3 MHz, 64-QAM, UI, Subtrame-23.4.7.8.9)	LTE-TOD	8.52	19.6
0500	AAG	LTE-TDD (SC-FDMA, 100% R8, 6 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	19.6
0504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 18-QAM, UI, Subkame=2,3,4,7,8,9)	LTE-TDD	8,91	29.6
0.905	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM, UL Subframe-2,3,4,7,8,9)	LIE-TOD	8.54	
10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, DPSK, UL Subiname=2.3,4,7,8,9)	LTE-TDD	7.74	±9.6 ±9.6
0.507	AAG	LTE-TOD (SC FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	and the second se
0508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 54 GAM, UL Subframe=2.3,4,7,8,9)	LTE-TDD		±9.6
0509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK, UL Subtrame=2.3,4,7,8,9)	LTE-TDD	8,55	±8.8
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	and the second se		+9.6
0531	AAF	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subtrame-2.3,4,7,8,9)	LTE-TDD	0.49	±9.8
0512	AAG	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subhame=2,3,4,7,8,9)	LTE-TDD	8.51	3.9±
0513	AAG	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, 18-DAM, UL Subtrame+2,3,4,7,8,9)	LTE-TDO	7,74	±9.8
0514	AAG	LTE-TDD (SC-FOMA, 100% RB, 20 MHz, 14-GAW, UL Subtame-2,3,4,7,8,9)	LTE-TDD	B.42	19.6
0515	AAA	IEEE 802.11b WiFI 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	LTE-TOO	8.45	±9.6
0516	AAA		WLAN	1.58	±9.6
0517	AAA	IEEE 802.11b WIF) 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
0518	AAC	IEEE 902.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN .	1.58	±9.8
the second second		IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
0519	AAC	EEE 802.11a/h WFI 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9,8
0.520	AAC	IEEE 802 11ah WIFI 5 GHz (OFDM, 18 Mops, 98pc duty cycle)	WLAN	8.12	29.6
		IEEE 802.11a/h WIFI 5 GHz (OFOM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.8
0.522	MC	IEEE 802 11wh Will's GHz (OFOM, 36 Mops, 99pc duty cycle)	WLAN	8.45	±9.6
0.523	AAC	IEEE 802.11a/h WIFI 5 GHz (OFOM, 48 Mops, 99pc duty cycle)	WI.AN	8.08	主9.6
0.524	AAC	IEEE 832.11a/h WiFi 5 GHz (OFOM, 54 Mbps, 90pc duty cycle)	WLAN	8.27	:9.6
0525	AAC	IEEE 802.1 fac WIFI (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.38	19.6
0.528	AAC	IEEE 802.11ac WIFI (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	:9.6
0527	AAC .	IEEE 802.11ac WIFI (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	19.0
0528	AAC	IFIEE 802.11ac WFI (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.38	+9.E
0529	AAG	IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)	WLAN	6.06	±9.6
0531	AAC	IEEE 002.11ac WIFI (20 MHz, MCS6, 99pc duty cycle)	WLAN.	8.43	±8.6
0532	AAC	IEEE 802.11ac WIFI (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	19.6
0533	AAC	IEEE 802 11ac WIFI (20 MHz, MCS8, 98pc duty cycle)	WLAN	8.38	±9.6
0554	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 98pc duty cycle)	WLAN	8.38	±9.6 ±9.6
0.535	AAC	IEEE 802.11 sc WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	
0536	AAC	IEEE 802.11ac WIFI (40 MHz, MCS2, 98pc duty cycle)	WLAN	the second se	±9.6
0537	AAC	IEEE 802.11ac WIF (40 MHz, MCS3, 99pc duty cycle)		0.52	19.6
0538	AAC	IEEE 002.11ad WF1 (40 MHz, MCS4, Style 000 cycle)	WLAN	B.44	±9.6
0540	ANG	IEEE 802.11ag WFI (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.54	±9.6
	10.04	and apply they have been unter and or water only cland	WLAN	B.39	±9.6

Cartificate No: EX-7899 Neu24

Drive 15 st 00

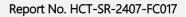


November 24, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	UngE R = 1
30.541	AAC	IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.46	±9.8
10:542	AAC	IEEE 802.11ac WIFI (40 MHz, MCS8, 98pc duty cycle)	WLAN	8.65	±9.8
10543	AAC.	IEEE 802.11ac WFI (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAC	IEEE 802.11ac Will (00 MHz, MCS0, 99pc duty cycle)	WLAN	8.00	19.6
10545	AAC	IEEE 802.11ac WIFI (80 MHz, MCS1, 89pc duty cycle)			the second state of the second
0546	AAC	IEEE BUL THE WITHOUNTL, MUST, SEED BUY GOD	WLAN	8.55	±9,6
And in case of		IEEE 802.11ac WIFI (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	19.6
10547	ANC	IEEE 802.11ac WIFI (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
10548	AAC.	IEEE 802 11ac WFI (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±0.6
10660	AAC	IEEE 802.11ac WIFI (80 MHz, MCS6, 99pc duty cycle)	WLAN	6.38	±9.6
10551	AAC	IEEE 802 t1ac WFI (80 MHz, MCS7, 99pc duty cycla)	WEAN	8.50	±9.6
10552	AAC	IEEE 802,11ac WIFL(80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±8.6
10553	AAG	IEEE 802.11ac WFI (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
10554	AAD	IEEE 902.11ao WIFI (160 MHz, MCS0, 98pc duty cycle)	WLAN	8.48	#9.6
10655	AAD.	IEEE 002.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
10556	AAD	IEEE 802.11ac WIFI (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10557	AAD	IEEE 802 11ac WFI (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	19.6
10558	AAD	IEEE 802.11ac WIFI (180 MHz, MCS4, 98pc duty cycle)	WLAN	8.61	
10580	AAD	IEEE 800 11ac WFI (160 MHz, MCSR, 99pc duty cycle)			±9.6
		IEEE OW THE WIT COUNTY, MUSE, MODE CUTY CYCIE)	WLAN	8.73	±9,8
10561	AAD	IEEE 802.11ac WIFI (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	19.6
10562	AAD	IEEE 802.11ac WIFI (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
10563	AAD	IEEE 802.11ac WIFI (160 MHz, MCS9, 96pc duty cycle)	WLAN	8.77	1.9.8
10.564	AAA.	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	0.25	±9.6
10.565	AAA	IEEE 802 11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 98pc duty cycle)	WLAN	8.45	±9.6
10566	444	IEEE 802.11g W/Fi 2.4 GHz (DSSS-OFDM, 18 Mope, 99pc duty cycle)	WLAN	0.13	±9.6
10567	AAA.	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 24 Mopt. 99pc duty cyclu)	WLAN	8.00	±9.6
0568	AAA	IEEE 802.11g WFI 2.4 GHz (DSSS-OFOM, 36 Mbps, 99oc duty cycle)	WLAN	8.37	±9.6
0568	AAA	IFEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mops, 99pc duty cycle)	WLAN	8.10	19.6
0570	AAA	IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	6.30	in the second se
0571	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN		29.6
0872	AAA	IEEE 802.11b WiFi 2.4 OHz (DSSS, 2.Mops, 90pc duty cycle)	11271215	1.90	±9.6
0573	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.99	29.8
0574	AAA	IEEE and The Wint 2 A Gran (DOSS, 5.5 MBps, supporting)	WLAN	1.98	±9.6
0875	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WEAN	1.98	±9.6
		IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mops, 90pc duty cycle)	WLAN	8.59	±9.6
0578	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mops, 90pc duty cycle)	WLAN	8.80	±9.8
0.677	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.8
0578	AAA	IEEE 802.11g Will 2.4 GHz (DBSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA	IEEE 802.11g WIFi 2.4 OHz (OSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
0580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.78	±9.6
10.581	AAA	IEEE 802.11g WIFI 2.4 GHz (OSSS-OFDM, 48Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
0.582	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.87	±9.0
0.583	AAC	IEEE 802.11a/h WIFI 5 GHz (OFOM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	10.0
0.584	AAC	IEEE 802.11wh WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN		
0585	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)		8.60	±9.6
0586	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 80pc duty cycle)	WLAN	8.70	19.6
0587	AAC	IEEE 802.11a/h WIFI 5 GHz (DFDM, 18 Addis, subc doty cycle)	WLAN	8.40	29.6
0588	AAC	IEEE and that we could have been and the second	WEAN	8.35	£9.6
0589	AAC	IEEE 802.11a/h WFI 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.8
		IEEE 802 11a/h Will I GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
0590	AAC	IEEE 802.11a/h WIF15 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
0.591	AAC	EEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
0.592	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN.	B.79	+8.5
0.593	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN.	8.64	±9.8
0.594	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.0
0.595	AAC	IEEE 802.11m (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	19.6
0096	AAC	IEEE 802 11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WEAN	8.71	
	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCSB, 90pc duty cycle)	WLAN		±9.0
0098	AAC.	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WEAN	8,72	±9.6
0699	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	110-24-14	8.50	主导,0
0600	AAC	IEEE 802.11n (HT Maed, 40 MHz, MCS0, 50pc duty cycle)	WLAN	8.70	±9.6
0601	AAC	IFEE BOO 11% INT Minute ADMAIN MICES PARTY CYCle)	WLAN	8.88	主9.8
0802	AAC	IEEE 802 11n (HT Mixed, 40 MHz, MC82, 90pc duty cycle)	WLAN	8.82	土明.6
internation of the local division of the loc		IEEE 882.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8,94	±9.0
	AAC	IEEE 602.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
C	AAC	EEE 882.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8.76	19.6
	AAC	IEEE 802.11n (HT Mood, 40 MHz, MCS8, POpc duty cycle)	WLAN	8.97	±9.0
0.906	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, S0pc duty cycle)	WLAN	8.82	19.6
0.607	ANC	IEEE 802.11ac WiFI (20 MHz, MC80, 90pc duty cycle)	WLAN	8.64	19.6
8080	AAC	IEEE 802.11ag WFI (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	
		the second second second second second	TEL /1/9	8.77	±9.6

Certificate No: EX.7899 Nov.09

Den IP - I PP



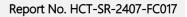


### November 24, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>e</sup> N =
10609	AAG	IEEE 802.11ao WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	19.8
10610	AAC	IEEE 802.11ac WIFI (20 MHz, MCSS, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAC	IEEE 802 11ac WIFI (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	19.6
10612			WLAN	8.77	11.1.1
10613	ANC	IEEE 802.11ac WFI (20 MHz, MCS6, 90pc duty cycle)		the second se	±9,6
10614	AAC	IEEE 802.11%: WIFI (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.94	±9.6
10615	AAC	TELE BOR LINE WIT (2010HZ, 80GS7, SUDD DUV CYCH)	WLAN	8.59	±9.6
		IEEE B02.11ac WIFI (20 MHz, MCS8, 90pc duty cycle)	WLAN	8,82	19.6
10618	AAC .	IEEE 802.11ac W/Fi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAC	IEIEE 802.11ac WIFI (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	8,65
10618	AAC	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WEAN	8.58	-±9.6
10619	AAC	IEEE 802.11ac WFI (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	#9.6
10620	AAC	IEEE 802.11ac WIFI (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAC	IEIEE 902,11ao WFI (40 MHz, MCSS, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAG	IEEE 802.11ac WFI (40 MHz, MCS6, 90pc duty ayda)	WLAN	8.68	±9.6
10623	AAC	IEEE 802.11ac WIFI (46 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10624	AAC	IEEE 802.11ac WFI (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.90	19.6
10625	AAC	IEEE 802.11ac WIFI (40 MHz, MC89, 90pc duty cycle)	WLAN	8.95	19.6
10626	AAC	IEEE 802.11ac WIFI (80 MHz, MCS0, 90pc duty cycle)	WLAN	6.00	±9.6
10627	AAC	IEEE 502 11ap WIFI (80 MHz. MCS1, 90pc duty cycle)	WLAN		
10628	AAC	IEEE 802.11ac WFI (80 MHz, MCS2, 90pc duty cycle)		8.88	19.8
10829	AAC	IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.71	±9.6
10630	AAC		WLAN	8.85	±9.6
10630	AAC	IEEE 802.11 ac WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	0.72	±9.6
	a landari da manana	EEE 802.11ac WIFI (80 MHz, MCSS, 90pc duty cycle)	WLAN	8.81	±9-8
10632	AND	IEEE 802 11ac WIFi (80 MHz, MCS6, 80pc duty cycle)	WLAN	8.74	±9.5
10633	A/C	IEEE 802 11ac WIFI (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	19,6
10634	AAC	IEEE 802.11ac WIFI (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±8.6
10635	AAG	IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle)	WEAN	8.81	±9.6
10636	AAD	IEEE 802.11an WIFI (160 MHz, MCS8, 90pc duty cycle)	WEAN	8.83	:9.6
12637	AAD	IEEE 802.11ac WIFI (160 MHz, MCS1, 90pc duty cycle)	WEAN	8,79	±9.6
10638	CAA	IEEE 802.11ac WFI (168 MHz, MCS2, 90pc duty cycle)	WLAN	8.88	29.6
0639	0AA	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	+9.6
10640	GAA	IEEE 802.11ac WIFI (160 MHz, MCS4, 90cc duty cycle)	WLAN	8.98	±9.6
10641	AAD	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WEAN	9.06	±9.8
10642	AAD	IEEE 802.11ac WIFI (150 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAD	IEEE 802.11ac WIFI (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
0644	AAD	IEEE 802.11ac Will (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	and the second se
10.645	AAD	IEEE 802.11ao WIFI (190 MHz, MCS9, 90pc duty cycle)	WLAN		±9,6
0.646	AAH	LTE-TDD (SC-FOMA, 1 R8, 5 MHz, QPSK, UL Subtrame=2,7)		8,31	±9.6
10647	AAG	LTE-TOD (SC-FOMA, 1 RB, 20 MHz, GPSK, UL Subhame=2,7)	LTE-TDO	T1.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	LTE-TDO	11.96	±8.6
0.652	AAF		CDMA2000	3.45	±9.0
0.659	AAF	LTE-TOD (OFOMA, 5MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	6.91	±0.6
	C	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Glipping 44%)	LTE-TDO	7.42	±9.6
0654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	5.96	10.6
0655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	7.21	±9.0
0658	AAB	Pulse Waveform (200Hz, 10%)	Teol	10.00	±9.6
0659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6
0660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
0661	AAB	Pulse Waveform (200Hz, 60%)	Tiest	2.22	19.6
0862	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
0.670	AAA	Bluetooth Low Energy	Bluetooth	2.19	19.6
0671	AAC	IEEE 802.11ax (20 MHz, MCSO, 90pc duty cycle)	WLAN	9.09	±9.6
0672	AAC:	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	
0673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±8.0
0674	AAC	IEEE 802 11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN		±9.6
	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.0
	AAC	IEEE 802.11ax (20 MHz, MC55, 90pc duty cycle)	TTAPET	8.90	±9.6
	AAG	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.77	±9.6
- C11 (	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.73	±0.6
	AAC	IEEE 802 11 av (20 MHz, MCSF, Stipp duty cycle) IEEE 802 11 av (20 MHz, MCSB, 90pc duty cycle)	WLAN	8,78	±9.6
	AAC	TEE 900 they (00 MM/s 60000 20m d d subb	WLAN	8.89	19.6
	AAC	#EE 802 11ax (20 MHz, MCSR, 90pc duty cycle)	WLAN	8.80	19.0
	2.00.000	IEEE 802.11 isx (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.0
the second s	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.80	±9.6
and the second s	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
	AAD	IEEE 802.11ax (20 MHz, MCS1, 98pc duty cycle)	WLAN	8.26	±9.5.
0686	AAC AAC	IEEE 802.11ax (20 MHz; MCS2; 99pc duty cycle) IEEE 802.11ax (20 MHz; MCS3; 99pc duty cycle)	WLAN	8.33	29.6

Certificate No: EX.7622 Nou05

Denn 17 - I DD





### November 24, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Une <sup>®</sup> k =
10687	AAG	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
10688	AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
10689	AAC	IEEE 802.11ax (20 MHz, MCS8, Ripp duty cycle)	WLAN	8.55	19.6
10890	AAG	IEEE 802.11mx (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10691	AAC	IEEE 802.11 ax (20 MHz, MCS8, Mpc duty sycie)	WLAN	8.25	±0.0 ±0.6
10682	AAC	IEEE 802.11ax (20 MHz, MCSB, 99pc duty cycle)	WLAN	8.29	±9.6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN		
10684	AAC	IEEE 802.11as (20 MHz, MCS11, Sept daty cycle)		8.25	±9.6
10695	AAC	IEEE 802,11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.57	±8-8
10696	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10697	AAC	(EEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)			±9.6
10695	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	5.61	#9.6
10699	AAC	IEEE BOZ 11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.89	±9.6
10700	AAC		WLAN	6.82	#9.6
10701	AAC	IEEE 802 11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.75	3.9.6
		IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.85	#9.6
10702	AAC	IEEE 602.11ax (40 MHz, MCS7, 90pc duty cycle)	WEAN	8.70	-±9.6
10703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	19.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty bycle)	WLAN	8.56	39.6
10705	AAC	IEEE 902.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.89	±9.6
10706	AAC	IEEE 802.11as (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
10707	AAC	IEEE 002.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
10708	AAC	IEEE 802.11 az (40 MHz, MCST, 89pc duty cycle)	WLAN	8.55	±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WEAN	8.29	±9.6
10711	AAC	IEEE 802.11 ps (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
10712	AAC	IEEE 802.11 as (40 MHz, MCS5, 99pc duty cycle)	WLAN	0.67	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WELAN	8.28	±9.5
10715	AAC	IEEE 802 11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	19.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8.49	±8.6
10718	AAC	IEEE 802.11ax (40 MHz, MC511, 99pc duty cycle)	WLAN	5.48	主9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 50pc duty cycle)	WLAN		±9.6
10720	AAC	IEEE 002.11ax (80 MHz, MCS1, 90pc duty cycle)		8.81	±9.0
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.87	±8.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8,78	±9.8
10723	AAC	IEEE 802.11ax (80 MHz, MCSA, 90pc duty cycle)	WEAN	8.55	土田,田
10724	AAC	TEE OUL THAN (BUNNEL, MUCH, BUCC BUTY BYCH)	WLAN	8,70	±9.8
10725	AAC	EEE 802.11ev (80 MHz, MCS5, 90pc duty cycle)	WLAN	9.90	±9.6
10726	AAC	EEE 802.11as (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	49.6
10727	AAC	EEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8,72	±0.8
	_	IEEE 802.11 ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	0.60	:±9.8
10729	AAC	IEEE 802.11ax (B0 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	<b>由9.6</b>
	AAC .	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	+9.6
0738	AAC	IEEE 602 11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	39.6
10.731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
0732	AAG	IEEE 102.11ax (S0 MHz, MCS1, 99pc duty cycle)	WLAN	8.48	8.9.6
0733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
0734	AAC	IEEE 902.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	19.6
0735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycla)	WLAN	8.33	±9.6
0736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	29.6
0737	AAC	IEEE 802.11ax (80 MHz, MCS6, 98pc duty cycle)	WLAN	8.38	±9.8
0738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	29.6
	AAC	IEEE 802.11 ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	19.8 19.8
0740	AAC	IEEE 602.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	
0741	AAC	IEEE 802 11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	19.6
0742	ANC.	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	and the second se	±9.8
0743	AAC .	IEEE 802.11ax (160 MHz, MCB0, 90pc duty cycle)	WEAN	5.43	8.01
and the second second	AAC	IEEE 802.11ax (180 MHz, MCS1, 90pc duty cycle)	(10)(10)	8.94	±9.6
and statements	AAC	IEEE 002.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	9,18	:9.6
	AAC	IEEE 802.11ax (160 MHz, MCS3, 80pc duty cycle)	WLAN	8.93	±9.6
	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.11	±9.6
	AAC	IEEE 802-11ax (190 MHz, MCS4, sope duty cycle) IEEE 802-11ax (190 MHz, MCS5, 90pc duty cycle)	WLAN	9.04	土泉.8
	AAC	SEEE SOO 11 to 1000 Mile MCCC Store day of the	WLAN	8.90	±9.6
	AAC	IEEE 802.11 ax (160 MHz, MCSS, 90pc duty cycle)	WLAN	8.90	£9.8
	AAC	IEEE 802 11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6
	AAC	IEEE 802 11ex (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
0706	MAP.	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	:8.6

Certilicate No: FX-7892 New29

Dann 18 af nn



### November 24, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Uno <sup>tt</sup> k =
10755	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLON	8.94	19.8
10755	AAC	IEEE 802.11ax (100 MHz, MCS0, 99pc duty cycle)	WLAN	0.64	+9.6
10756	ANC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	19.6
10757	AAC	IEEE IICR.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6
10758	AAC	(EEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	:0.6
10759	AAC	IEEE 802.11ax (100 MHz, MCS4, 99pc duty cycla)	WLAN	8.58	19.6
10760	AAC	IEEE 802.11ax (160 MHz, MCS5, Ripc duty cycle)	WLAN	8.40	1.9.1
10781	AAC	IEEE #02.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	+9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, (Spc duty cycle)	WLAN	8.49	±9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	19.6
10764	AAD	IEEE 802.11 ax (160 MHz, MCS9, 99 pc duty cycle)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ss (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10766	AAC.	IEEE 802.11ax (160 MHz, MCB11, 99pc duty cycle)	WLAN	8.51	±9.6
10767	AAE	50 NR (CP-OFOM, 1 RB, 5 MHz, GPSK, 15kHz)	5G NR FR1 TDD	7.95	±9.6
10768	AAD	5G NR (CP-OFOM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	19.6
10770	AAD	SG NR (CP-OFDM, 1 RB, 20MHz, QPSK, 15kHz)	50 NR FR1 TDD	8.02	±9.6
\$0771	AAD	SG NR (CP-OFOM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 T00	8.02	19.8
10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15kHz)	50 NR FR1 TD0	8.23	±9.6
10773	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, GPSK, 15 KHz)	5G NR FR1 TDO	8.03	±9.0
10774	AAD.	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	SG NR FR1 TDD	0.02	±9.5
10775	AAD	5G NR (CP-OFOM, 50% RB, SMHz, QPSK, 15 kHz)	50 NR FR1 TDD	8.31	19.6
10776	GAA.	50 NR (CP-OFOM, 50% RB, 10 MHz, QPSK, 15 kHz)	SG NR FR1 TDD	8.30	+8.6
10777	AAC	SG NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	50 NR FRI TOD	8.30	19.6
10778	AAD	5G NR (CP-OFOM, 50% RB, 20 MHz, GPSK, 15 kHz)	5G NR FR1 TDD	8.36	±8.6
10778	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
10780	AAD	50 NR (CP-OFOM, 50% RB, 30 MHz, OPSK, 15kHz)	50 NR FR1 TDD	8.38	:9.6
10761	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FRI TDD	8.38	±9.6
10782	AAD.	SB NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15kHz)	SG NR FR1 TDD	8.43	+9.6
10783	AAE	5G NR (CP-OFDM, 100% BB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.91	±9.6
10784	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FRI TDD	8.29	19.6
10.785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±0.6
10766	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10787	AAD	SG NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10788	AAD	50 NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.39	±9.6
10789	AAD	5G NR (CP-OFOM, 100% RB, 40 MHz, QPSK, 15kHz)	5G NR FRI TDD	8.37	19.6
10790	AAD	5G NR (CP-OFDM, 180% RB, 50 MHz, QP\$K, 15 kHz)	SG NB FR1 TDD	8.39	+9.6
10791	AAE	5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30kHz)	50 NR FR1 TDD	7.83	1.91
10792	AAD.	5G NR (CP-OFOM, 1 R8, 10 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	7.92	3.9.6
10793	AAD	5G NR (CP-OFDM, 1 R8, 15 MHz, QPSK, 38 KHz)	SG NR FR1 TDD	7.95	#0.6
10794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10795	AAD	5G NR (CP-OFDM, 1 R8, 25 MHz, QPSK, 30 kHz)	SG NR FR1 TOD	7,94	±9.6
10796	AAD.	5G NR (CP-DFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FRI TDD	7.82	±9.6
10797	AAD	50 NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 38 kHz)	SG NR FR1 TDD	8.01	±9.6
10798	AAD	SG NH (CP-OFDM, 1 AB, 50 MHz, GPSK, 30 kHz)	5G NR FR1 TDD	7.88	±9.6
10,799	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, GPSK; 30 kHz)	5G NR FR1 TDD	7.93	19.6
10 B01	AAD	SG NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30kHz)	5G NR FR1 TDD	7.89	±9.6
208.01	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 T00	7.67	±0.8
10-803	AAD	SG NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	50 NR FRI TOD	7.93	±8.6
0805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, OPSK, 30 KHz)	5G NR FR1 TDD	8.34	±9.8
0806	AAD	50 NR (CP-OFDM, 50% R8, 15 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.37	±8.6
0.809	AAD	5G NR (CP-OFDM, 60% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	6.34	+9.6
0810	AAD	5G NR (CP-CFDM, 50% RB, 40 MHz, GPSK, 30 kHz)	SG NR FR1 TDD	8,34	±8.0
0812	AAD	5G NR (CP-DFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	6G NR FR1 TDD	6.35	::9.8
	AAE	5G NR (CP-OFDM, 100% RB, 5MHz, GPSK, 30kHz)	SG NR FRI TOD	8.35	±9.6
	AAD	5G NR (CP-OFDM, 100% R8, 10 MHz, QPSK, 30 kHz)	6G NR FRI TDD	8.54	±9.6
	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	SG NR FRI TDD	8.33	±9.8
	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	±9.6
	AAD	SG NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	SQ NR FR1 TDD	8.41	19.6
and the second se	AAD	5G NR (CP-OFDM, 100% RB. 30 MHz, QPSK, 30 kHz)	50 NR FR1 TOD	8.41	±9.6
and the second s	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TD0	8.36	3.01
	AAD	5G NR (CP-CFDM, 100% RB, 50MHz, GPSK, 30kHz)	5G NR FRI TDD	8.3H	:9.5
	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, GPSK, 30 kHz)	5G NR FR1 TDD	8.41	29.6
	CAA	50 NR (CP-OFDM, 100% RB, 80 MHz, GPSK, 30 kHz)	5G NR FRI TDD	8.42	19.6
	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G/NR FR1 TOD	8.43	19.6

Cartificate No. EV.7899 Neuros



November 24, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>±</sup> k =
10.829	AAD	50 NR (CP-OFOM, 100% RB, 100MHz, QPSK, 30kHz)	5G MR FR1 TDD	8.40	±9.6
10830	AAD	SG NR (CP-OFOM, 1 RB, 10 MHz, QPSK, 60 kHz)	50 NR FR1 TDD	7.63	±9.6
10831	AAD.	50 NR (CP-OFOM, 1 RB, 15 MHz, QPSK, 60 kHz)	55 NR FR1 TDD	7.73	19.8
10832	AAD	SG NR (CP-OFOM, 1 RB, 20 MHz, QPSK, 60 kHz)	SG NR FR1 TDD	7.74	±9.5
10835	AAD	50 NR (CP-OFOM, 1 RB, 25 MHz, QPSK, 80 kHz)	5G NR FR1 TDO	7.70	±9.6
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9.6
10835	- AAD	5G NR (CP-OFOM, 1 RB, 40 MHz, QPSK, 66 kHz)	5G NR FR1 TOD	7.70	±9.5
10636	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	±9.6
1083T	AAD	50 NR (CP-OFOM, 1 RB, 60 MHz, QPSK, 60 KHz)	5G NR FR1 TOD	7.88	±9.6
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	+9.6
10840	AAD	50 NR (CP-OFOM, 1 R8, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.87	±9.6
10841	AAD	5G NR (CP-CFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	SG NR FR1 TDD	7.71	:9.6
10843	AAD	50 NR (CP-OFDM, 50% RB, 15 MHz, GPSK, 60 kHz)	ISG NR FR1 TDD	8.4B	±9.6
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, GPSK, 60 kHz)	50 NR FR1 TOD	8.34	19.6
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, GPSK, 60 kHz)	5G NR FRI TDD	8.41	±9.6
10854	CAA.	5G NR (CP-OFDM, 100% R8, 10 MHz, QPSK, 50 kHz)	5G NR FRY TOD	8.34	29.6
10855	GAA	50 NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	SG NR FR1 TDD	8.36	±9.6
10856	AAD	5G NR (CP-OFDM, 100% R8, 20 MHz, QPSK, 50 kHz)	5G NR FAT TOD	8.37	18.6
10857	DAA	5G NR (CP-OFDM, 100% R8, 25 MHz, QPSK, 60 kHz)	SG NR FR1 TDD	8.35	
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 80 kHz)	50 NR FRT TDD	8.36	±9.6
10.859	AAD	5G NR (CP-OFOM, 100% PB, 40 MHz, QPSK, 60 kHz)	SG NR FR1 TDO	8.36	and the second se
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, CP-SK, 60 kHz)	5G NR FR1 TDO	8.04	±9.6
10861	AAD	5G NR (CP-OFDM, 100% PB, 60 MHz, CPSK, 60 kHz)			±9.6
10883	AAD	SG NR (CP-OFOM, 100% RB, 80 MHz, QPSK, 80kHz)	SG NR FR1 T00	8.40	8.8
10.964	AAD	SG NR (CP-OFOM, 100% RB, 80 MHz, GPSK, 80 KHz)	5G NR FR1 TD0	8,41	±9.0
10885	AAD	SG NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	SG NR FR1 TD0	8.37	:±8.6
10866	AAD	5G NR (DFT4-OFDM, 186, 100 MHz, QFSK, 30 KHz)	5G NR FR1 TOD	8.41	±9.6
10868	AAD	50 NR (OFT-s-OFOM, 100% RB, 100 MHz, QPSK, 30 HHz)	5G NR FR1 TDD	5.61	38.6
10869	AAE	SG NR (DFT4-OFDM, 1 RB, 100 MHz, QPSK, 120 Hz)	50 NR FRI TOD	5.80	±9.0
10870	AAE	5G NR (DFT+-OFOM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
16871	AAE		SG NR FR2 TDD	6.88	10.6
10872	AAE	SG NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	6G NR FR2 TDD	5.75	±8.6
10873	AAE	5G NR (DFT-s-OFOM, 100% AB, 100 MHz, 180AM, 120 kHz)	56 NR FR2 TOD	6.52	±9.8
10874	AAE	50 NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120kHz)	5G NR FR2 TDD	6.61	±9,8
10875	AAE	5G NR (DFTs-OFDM, 100% RB, 100 MHz, 640 AM, 120 kHz)	50 NR FR2 TDD	6.85	<b>土日:日</b>
		5G NR (OP-OFDM, 1 RB, 100 MHz, QPSK, 120 KHz)	5G NR FRE TOD	7.78	±9.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 MHz)	50 NR FR2 TDD	7.95	±9,6
		50 NR (CP-OFDM, 100% RB, 100MHz, 16QAM, 120kHz)	5G NR FR2 TDO	8,41	±9.6
10.879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 NHz)	50 NR FR2 700	B.12	±9.6
10.880	AAE	5G NR (CP-OFDM, 100% RB, 100MHz, 64QAM, 120 MHz)	5G NR FR2 TDD	8.38	±9.8
10.681	AAE	5G NR (DFT+-OFDM, 1 RB, 50 MHz, GPSK, 120 KHz)	5G NR FR2 TDD	5.75	±8.6
289.0	AAE	50 NR (DFT+ OPDM, 100% RB, 50 MHz, QPSK, 120 kHz)	6G.NR FR2 TDD	5.96	19.6
0683	AAE	SG NR (DFTs-OFOM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
0884	AAE	5G NR (DFT-8-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	SG NR FR2 TDD	6.53	±9.6
0885	AAE	50 NR (0FT-8-0F0M, 1 RB, 50 MHz, 640AM, 120 kHz)	SG NR FRE TDD	6.61	±9.6
0886	AAE	5G NR (DFT-a-OFDM, 100% R8, 50 MHz, 64 GAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.8
0987	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, GPSK, 120 KHz)	50 NR FR2 TDD	7.78	±8.6
8880	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
0.888	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	SG NR FR2 TOO	8.02	±9.0
0890	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 18QAM, 120 kHz)	6G NR FR2 TDD	8.40	10.6
0881	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	56 NR FR2 T00	8.13	±0.0
0892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 KHz)	5G NR FR2 TDD	8.41	19.6
0897	AAC:	53 NR (DFT-e-OFDM, 1 RB, 5MHz, QPSK, 30kHz)	5G NR FRI TOD	5.65	±9.6
8680	AAB	5G NR (DFFs-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,67	±9.6
0899	AAB.	5G NR (DFT-a-DFDM, 1 R8, 16 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	19.6
0900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	50 NR FRI TDD	5.68	19.6
0.901	AAB	5G NR (DFTs-OFDM, 1 RB, 25 MHz, OPSK; 30 kHz)	AG NR FR1 TOD	5.68	19.6
908.0	AAB	5G NR (DFT-e-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	50 NR FR1 T00	5.68	Constant State
0903	AAB	5G NR (DFT & OFDM, 1 RB, 40 MHz, QRSK, 30 kHz)	SG NR FR1 TOD	5.68	±8.6 ±9.6
0904	AAB	5G NR (DFT+-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	
0905	AAB	5G NR (DFTs-OFDM, 1 RB, 60MHz, QPSK, 30kHz)	SG NR FR1 TDD	the second se	±9,6
0906	AAB	6B NR (DFT+e-OFDM, 1 RB, 80MHz, QPSK, 30kHz)		5.68	#8.6
0907	AAC	5G NR (DFT+ OFDM, 50% R8, 5 MHz, QPSK, 30kHz)	SG NR FR1 TDD	5.68	±9.6
0908	AAB	BG NR (DFT+ OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)		5,78	29.6
	AAB	5G NR (OFT=-OFDM, 50% RB, 15 MHz, OPSK, 30 KHz)	SG NR FR1 TDD	5.93	±9.6
the second s	AAB	5G NR (DFT-4-OFDM, 50% RB, 20 MHz, OPSK, 30 KHz)	50 NR FRI TDD	5,96	19.6
	10.000	and the second of a real subarts, CarSh, 30 KHZ)	5G NR FR1 TDD	5.83	±9.fi

Certificate Nn: FX-7822 Nov23

Dean 00 +1 00



November 24, 2023

UID	Rev	Communication System Name	Group	科共同 {d目}	Unc <sup>E</sup> k =
10911	AAB	5G NR (DFT-e-OFDM, 50% RB, 25MHz, QPSK, 30kHz)	5G NR FH1 TDD	5.93	19.8
10912	AAB	5G NR (DFT+-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAB	5G NR (DFT= OFDM, 50% R8, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDO	5.84	±9.6
10914	AAB	5G NR (DFT-a-OFDM, 50% RB, 50 MHz, QPSK, 30 KHz)	50 NR FR1 TDD	5.85	19:5
10915	AAB	5G NR (DFT++-OFDM, 50% R8, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDO	5.83	±9-6
10916	AAB	5G NR (DFT-I-OFDM, 50% R8, 60 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	5.87	+9.6
10917	AAB	5G NR (DFT+-OFDM, 50% R8, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.04	±9.6
10918	AAC	50 NR (DFT+-OFDM, 100% RB, 5 MHz, OPSK, 30 MHz)	5G NR FRI TCO	5.86	±8.6
10919	AAB	5G NR (OFT-2-OFDM, 100% R8, 10 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.86	19.6
10920	AAB	5G NR (OFT4-OFDM, 100% R8, 15 MHz, QPSK, 30 kHz)	50 NR FR1 TD0	5.87	+8.6
10921	AAH	50 NR (OFT-s-OFOM, 100% RB, 20 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.84	+9.6
10922	AAB	5G NR (DFT4-OFDM, 100% RB, 25MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.82	
10923	- AAB	50 NR (OFT-e-OFOM, 100% RB, 30 MHz, GPSK, 30 kHz)	SG NR FR1 TDD	5.84	±9.6 ±9.6
10924	AAB	5G NR (DFT4-OFDM, 100% RB, 40 MHz, OPSK, 30 kHz)	50 NR FR1 TDD	6.84	±9.6
10925	AAB	50 NR (DFT+ OFOM, 100% RB, 50MHz, QPSK, 30kHz)	SG NR FR1 TDD	5.95	
10926	AAB	5G NR (DFT+OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)			±9.6
10927	AAB	50 NR (DFT+OFOM, 100% RB, 80 MHz, QP3K, 30 KHz)	5G NR FR1 TDD	5.84	=9.6
10928	AAC	5G NR (DFT+ OFOM, 1 RB, 5MHz, QPSK, 15kHz)	5G NR FR1 TDD	5.94	±9.6
10929	AAC	5G NR (DFT+-OFOM, 1 RB, 10MHz, QPSK, 15KHz)	-50 NR FR1 FDD	6,62	±3.6
10830	AAC		5G NR FRI FDD	5.52	±9.6
10931	AAC	5G NR (DFTe-OFDM, 1 RB, 15MHz, QPSK, 15 MHz)	50 NR FRI FDD	6,52	±9,6
10931	AAC	5G NR (DFT-e-OFOM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	49,6
10833	AAC	5G NR (DFTs-OFDM, 1 RB, 25 MHz, QPSR, 15 kHz)	5G NR FR1 FDD	5.51	1.9.6
		5G NR (DFT-e-OFDM, 1 R8, 30 MHz, QPSK, 15 kHz)	5G NR FB1 FDD	8.51	±9,6
10.934	AAC	6G NR (DFT+ OFDM, 1 R8, 40 MHz, QPSK, 15 kHz)	50 NR FR1 FDD	6.51	±8.8
10935	AAD	5G NR (DFT+-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	土田.日
10936	AAC .	6G NR (DFT-6-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5,90	±9.6
10937	AND	5G NR (DFT=-OFDM, 50% RB, 10 MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.77	10.6L
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 HHz)	50 NR FR1 FDD	5.90	土0.中
10929	AAC .	5G NR (DFT-4-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	SG NR FR1 FDD	5.82	±9.6
10940	AAC	S0 NR (OFT-s-OFDM, S0% RB, 25 MHz, QPSK, 15 kHz)	5G NR FRI FDD	5.89	19.6
10941	AAC	5G NR (DFT-s-OFDM, 50% R8, 30 MHz, QPSK, 15-KHz)	6G NR FR1 FDD	5.83	29.6
10942	AAC	5G NR (OFT-e-OFOM, 50% R8, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	19.6
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	SG NB FR1 FDD	5.95	±9.6
10944	AAC	5G NR (DFT-a-OFDM, 100% AB, SIMHz, OPSK, 15xHz)	5G NR FR1 FDD	5.81	19.8
10945	AAC	5G NR (OFT-e-OFOM, 100% RB, 10 MHz, GPSK, 15 kHz)	5G NR FRI FDD	5.85	±9.0
10946	AAG	5G NR (DFTs-OFDM, 100% R8, 15 MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.83	19.6
10947	AAC	5G NR (DFT-8-OFOM, 100% RB, 20MHz, QPSK, 15kHz)	50 NR FR1 FDD	5.87	+9.6
10948	AAC	SG NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10949	AAC	5G NR (DFT-#-OFOM, 100% RB, 30 MHz, QPSK, 15 kHz)	50 NR FR1 FDD	5.87	±9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.8
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	50 NR FR1 FDD	5.92	±9.6
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FRI FDD	8.25	19.6
10.953	AAA	SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	50 NR FR1 F00	8.15	19.6
10954	AAA,	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.30	10.6
0.965	AAA.	5G NR OL (CP-OEDM, TM 3.1, 20 MHz, 64-OAM, 15 kHz)	5G NR FR1 FDD	8.42	19.0
10.956	AAA.	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	and a second second
0857	AAA	SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	SG NR FR1 F00	8.31	±9.6 ±9.6
10058	AAA	53 NR DL (CP-OFOM, TM 3.1, 16 MHz, 64 QAM, 30 kHz)	5G NR FR1 FDD	8.61	29.0
0959	AAA	SG NR DL (CP-OFOM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	SG NR FR1 FDD	8.33	19.6
0960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 54-QAM, 15kHz)	5G NR FR1 TDD	9.33	
10991	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 T00	9.36	±9.6
10.962	AAB	0G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64 GAM, 15 KHz)	SG NR FR1 TOD		±9.6
6963	AAB.	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 84-QAM, 15 KHz)	50 NR FR1 T00	9.40	29.5
0964	AAC	SG NR OL (CP.OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	SG NR FRI TDD	9.55	19.6
0965	AAB	SB NR OL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)		9.29	±9.6
0966	AAB	SG NR OL (CP-OFDM, TM 3.1, 15 MHz, 94-QAM, 30 KHz)	SG NR FR1 TDD	B.37	0.01
0967	AAB	BG NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 30kHz)	50 NR FRI TOD	9.55	28.8
8960	AAB	SO NR DL (CP OFDM, TM 3.1, 100 MHz, 64-DAM, 30 KHz)	5G NR FR1 TDD	9.42	£9.8
0972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15kHz)	50 NR FRI TOD	8.40	29.6
0973	AAB	5G NR (DFT-6-OFDM, 1 RB, 100 MHz, QPSK, 15 KHz)	5G NR FR1 TDD	11.59	±9.6
0974	AAB	NO NO ICO OCOVILI I NO. 100 MINZ (JPSR, 30 KHZ)	SG NR FR1 TDD	9.05	19.0
0978	AAA	5G NR (CP-OFDM, 100% R8, 100 MHz, 256-QAM, 30 kHz) ULLA BDR	5G NR FR1 TDD	10.28	±9.6
0979	AAA		ULLA	1,16	±9.0
0980		ULLA HDB4	UCCA	8.58	±9.6
0981	AAA	ULLA HDR8	ULLA	10.32	±9.6
	10070	ULLA HDRp4	ULLA	3.19	±9.6
0.882	AAA	ULLA HDRp8	ULLA	3.43	±0.6

Certificate No: EX-7899 New09

Onine the article



November 24, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> R = 2
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64 QAM, 15 KHz)	5G NR FR1 TDD	8.31	±9.6
10384	AAA	EG NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	SG MR FR1 TDD	9.42	±9.6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 54-QAM, 30 kHz)	5G NR FR1 TDD	9.64	±9.6
10686	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TD0	0.50	±9.0
10987	AAA .	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 54-QAM, 30 kHz)	5G NR FR1 TOD	9.63	±9.6
10988	AAA .	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 84-QAM, 30 kHz)	5G N8 FB1 T0D	9.38	+9.0
10988	- 4,4,4	5G NR DL (CP-OFDM, TM 3.1, B0MHz, 64-QAM, 30kHz)	5G NR FR1 TOD	9.33	+9.6
10990	AAA	5G NR DL (CP-OFEM, TM 3.1, 90 MHz, 64-GAM, 30 kHz)	5G NR FR1 TDD	0.52	±9.6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 54-QAM, 15 kHz)	5G NA FR1 TOD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	SG NR FRI TOD	10.73	8.8±
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 54-QAM, 15 RHz)	5G NR FR1 FDD	8.70	±9.6
11005	AAA.	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.55	8.9±
11007	AAA	59 NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FRI FDD	8.46	±9.6
11008	AAA.	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	SG NR FR1 FDD	8.51	±9.8
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64 QAM, 30 kHz)	5G NR FR1 FDD	8.76	:9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	SG NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-OAM, 90 kHz)	5G NR FR1 FDD	8.95	19.6
11012	AAA	5G NR DL (CP-OFOM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	+9.6
11013	AAA	IEEE 802.11be (320 MHz, MCB1, 99pc duty cycle)	WEAN	8.47	8.9.8
11014	AAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.8
11016	AAA	IEEE 802 11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAA	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WEAN	8.41	±9.8
11018	AAA	IEEE 802 11be (320 MHz, MCS8, 99cc duty cycle)	WLAN	11.40	±9.8
11019	AAA	IEEE 802.11te (320 MHz, MCS7, 98pc duty cycle)	WLAN	8.29	±9.6
11020	AAA	IEEE 802 11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	+9.6
11021	AAA	IEEE 802.11be (320 MHz, MCS9, 98pc duty cycle)	WLAN	8.46	+9.6
11022	AAA.	IEEE 802.11be (329 MHz, MCS10, 99pc duty cycle)	WLAN	0.30	+9.8
11023	AAA	IEEE 802.11be (220 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	10.6
11024	AAA.	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	19.6
11025	AAA	IEEE 802.11bo (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	19.6
11025	AAA.	IEEE 802.11be (920 MHz, MCS0, 98pc duty cycle)	WLAN	8.39	29.0

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

Cartificata No: EV.7899 Mer99

P----



Schmid & Partner Engineering AG Jeughausstrasse 43, 8004 Zur		ILAC-MRA		S Schweizerischer Kallbrierdie Service suisse d'étalonnage Servizio svizzero di taratura S Swiss Calibration Service
accredited by the Swiss Accre he Swiss Accreditation Ser fultilateral Agreement for th	rvice is one of the signat			Accreditation No.: SCS 0108
lient HCT Gyeonggi-do, Ri	epublic of Korea	c	ertificate No.	EX-3903_Jul23
CALIBRATION C	ERTIFICATE			
Object	EX3DV4 - SN:3	903		
Calibration procedure(s)	QA CAL-25.v8	, QA CAL-12.v10 edure for dosime		a characterization of
Calibration date	July 19, 2023			
Calibration Equipment used	(MAG) IS CRIDICAL FOR CALDRADO	(1)		
	10	Col Data (Contra	and the s	
Primary Standards	10 SN: 104778	Cal Date (Certific 30-Mar-23 (No. 2		Scheduled Calibration Mar-24
Primary Standards Power meter NRP2 Power sensor NRP-Z91	SN: 104778 SN: 103244	30-Mar-23 (No. 2 30-Mar-23 (No. 2	17-03804/03805)	Mar-24 Mar-24
Primary Standards Power meter NRP2 Power sensor NRP-291 OCP DAK-3.5 (weighted)	SN: 104778 SN: 103244 SN: 1249	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP-	17-03804/03805) 17-03804) DAK3.5-1249_Oct22	Mar-24 Mar-24 2) Oct-23
Primary Standards Power meter NRP2 Power sensor NRP-291 DCP DAK-3.5 (weighted) DCP DAK-12	SN: 104778 SN: 103244 SN: 1249 SN: 1016	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP- 20-Oct-22 (OCP-	17-03804/03805) 17-03804) DAK3.5-1249_Oct22 DAK12-1016_Oct22	Mar-24 Mar-24 21 Oct-23 ) Oct-23
Primary Standards Power meter NRP2 Power sensor NRP-291 OCP DAK-3.5 (weighted) OCP DAK-12 Reference 20 dB Attenuation	SN: 104778 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x)	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP- 20-Oct-22 (OCP- 30-Mar-23 (No. 2	17-03804/03805) 17-03804) DAK3.5-1249_Oct22 DAK12-1016_Oct22 17-03809)	Mar-24 Mar-24 2) Oct-23 ) Oct-23 Mar-24
Primary Standards Power meter NRP2 Power sensor NRP291 DCP DAK-3.5 (weighted) DCP DAK-12 Reference 20 dB Attenuator DAE4	SN: 104778 SN: 103244 SN: 1249 SN: 1016	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP- 20-Oct-22 (OCP- 30-Mar-23 (No. 2	17-03804/03805) 17-03804) DAK3.5-1249_Oct22 DAK12-1016_Oct22 17-03809) AE4-660_Mar23)	Mar-24 Mar-24 21 Oct-23 ) Oct-23
Primary Standards Power snach NRP2 Power sensor NRP.291 DCP DAK-35 (weighted) DCP DAK-12 Reference 20 dB Attenuation DAE4 Reference Probe ES30V2	SN: 104778 SN: 103244 SN: 1249 SN: 1249 SN: 1018 SN: 660 SN: 3013	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP- 20-Oct-22 (OCP- 30-Mar-23 (No. 2 18-Mar-23 (No. E 06-Jan-23 (No. E	17-03804/03805) 17-03804) DAK3.5-1249_Oct22 DAK12-1016_Oct22 DAK12-1016_Oct22 17-03809) A&E4-660_Mar23) S3-3013_Jan23)	Mar. 24 Mar. 24 2) Oct-23 ) Oct-23 Mar. 24 Mar. 24 Jan. 24
Primary Standards Power meter NRP2 Power sensor NRP.291 DCP DAK-3.5 (weighted) DCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards	SN: 104778 SN: 103244 SN: 103244 SN: 1018 SN: CC2552 (20x) SN: 660 SN: 660 SN: 3013	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP- 20-Oct-22 (OCP- 30-Mar-23 (No. 2 18-Mar-23 (No. 2 06-Jan-23 (No. E Check Date (In In	17-03804/03805) 17-03804) DAK3.5-1249_Oct22 DAK12-1016_Oct22 17-03809) DAE4-660_Mar23) S3-3013_Jan23) Duse)	Mar. 24 Mar. 24 Mar. 24 21 Oct-23 1 Oct-23 1 Oct-23 Mar. 24 Mar. 24 Mar. 24 Jan. 24 Scheduled Check
Primary Standards Power mater NRP-2 Power sensor NRP-291 OCP DAK-3.5 (weighted) OCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power sensor E44198 Power sensor E4412A	SN: 104778 SN: 103244 SN: 1249 SN: 1249 SN: 1018 SN: 660 SN: 3013	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP- 20-Oct-22 (OCP- 30-Mar-23 (No. 2 16-Mar-23 (No. 2 06-Jan-23 (No. E 06-Jan-23 (No. E Check Date (in ho 06-Apr-16 (in ho	17-03804/03805) 17-03804) DAK3.5-1249_Oct22 DAK12-1016_Oct22 DAK12-1016_Oct22 17-03809) A&E4-660_Mar23) S3-3013_Jan23)	Mar. 24 Mar. 24 2) Oct-23 ) Oct-23 Mar. 24 Mar. 24 Jan. 24
Primary Standards Power snacr NRP2 Power sensor NRP.291 DCP DAK-35 (weighted) DCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe ES30V2 Secondary Standards Power sensor E44198 Power sensor E4412A	SN: 104778 SN: 103244 SN: 1249 SN: 1249 SN: 022552 (20x) SN: 650 SN: 3013 ID SN: GB41293874 SN: 44486087 SN: 444486087	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCF- 20-Oct-22 (OCF- 30-Mar-23 (No. 2 16-Mar-23 (No. 2 06-Jan-23 (No. 2 Check Date (In No. 06-Apr-16 (In No. 06-Apr-16 (In No. 06-Apr-16 (In No.	117-03804/03805) 117-03804) DAK3-5-1249_Oct22 DAK12-1016_Oct22 DAK12-1016_Oct22 DAK12-1016_Oct22 S3-3013_Jan23) S3-3013_Jan23) S3-3013_Jan23) Duse) se check Jun-22) se check Jun-22) se check Jun-22)	Mar. 24 Mar. 24 2) Oct-23 0 Oct-23 Mar. 24 Mar. 24 Jan: 24 Scheduled Check In house check: Jun. 24 In house check: Jun. 24 In house check: Jun. 24
Primary Standards Power meter NRP2 Power sensor NRP291 OCP DAK-3,5 (weighted) OCP DAK-12 Paference 20 dB Attenuator DAE4 Reference Probe ES30V2 Secondary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A Power sensor E4412A Power sensor E4412A	SN: 104778 SN: 103244 SN: 1249 SN: 1249 SN: 022552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41486087	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP- 20-Oct-22 (OCP- 30-Mar-23 (No. 2 18-Mar-23 (No. 2 06-Jan-23 (No. E Check Date (In No. 06-Apr-16 (In No. 06-Apr-16 (In No. 06-Apr-16 (In No. 06-Apr-16 (In No.	117-03804/03805) 117-03804) DAK35-1249_Oct22 0AK12-1016_Oct22 17-03809) XAE4-660_Mar23) S3-3013_Jan23) Duse) se check Jun-22) se check Jun-22)	Mar. 24 Mar. 24 Mar. 24 Oct-23 Oct-23 Mar. 24 Mar. 24 Jan. 24 Scheduled Check In house check: Jun. 24 In house check: Jun. 24
Primary Standards Power meter NRP-291 OCP DAK-3.5 (weighted) OCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power sensor E4412A Ref generator HP 8648C	SN: 104778 SN: 103244 SN: 103244 SN: 1018 SN: CC2552 (20x) SN: 650 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: MY41498087 SN: 00110210 SN: US3642001700	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP- 20-Oct-22 (OCP- 30-Mar-23 (No. 2 18-Mar-23 (No. 2 06-Jan-23 (No. E Check Date (In No. 06-Apr-16 (In No. 06-Apr-16 (In No. 06-Apr-16 (In No. 06-Apr-16 (In No.	117-03804/03805) 117-03804/ DAK3.5-1249_Oct22 DAK3.5-1249_Oct22 17-03809/ DAK12-1016_Oct22 17-03809/ S3-3013_Jan23/ S3-3013_Jan23/ S3-3013_Jan23/ S3-60ck_Jan-22/ ssc check_Jan-22/ ssc check_J	Mar-24 Mar-24 Mar-24 ) Oct-23 ) Oct-23 Mar-24 Mar-24 Mar-24 Scheduled Check In house check: Jun-24 In house check: Jun-24 In house check: Jun-24 In house check: Jun-24 In house check: Jun-24
Primary Standards Power meter NRP-291 OCP DAK-3.5 (weighted) OCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power sensor E4412A Ref generator HP 8648C	SN: 104778 SN: 103244 SN: 103244 SN: 1018 SN: CC2552 (20x) SN: 650 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: MY41498087 SN: 00110210 SN: US3642001700	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP- 20-Oct-22 (OCP- 30-Mar-23 (No. 2 18-Mar-23 (No. 2 06-Jan-23 (No. E Check Date (In No. 06-Apr-16 (In No. 06-Apr-16 (In No. 06-Apr-16 (In No. 06-Apr-16 (In No.	117-03804/03805) 117-03804/ DAK3.5-1249_Oct22 DAK3.5-1249_Oct22 17-03809/ DAK12-1016_Oct22 17-03809/ S3-3013_Jan23/ S3-3013_Jan23/ S3-3013_Jan23/ S3-60ck_Jan-22/ ssc check_Jan-22/ ssc check_J	Mar-24 Mar-24 Mar-24 ) Oct-23 ) Oct-23 Mar-24 Mar-24 Mar-24 Scheduled Check In house check: Jun-24 In house check: Jun-24 In house check: Jun-24 In house check: Jun-24 In house check: Jun-24
Primary Standards Power meter NRP2 Power sensor NRP.291 OCP DAK-3.5 (weighted) OCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power sensor E44198 Power sensor E4412A RF generator HP 8648C Network Analyzer E8358A	SN: 104778 SN: 103244 SN: 1249 SN: 1249 SN: 02552 (20x) SN: 650 SN: 3013 ID SN: GB41293874 SN: 000110210 SN: 000110210 SN: US3642001700 SN: US3642001700	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCF- 20-Oct-22 (OCF- 30-Mar-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Apr-16 (in hou 06-Apr-16 (in hou	117-03804/03805) 117-03804/ DAK3.5-1249_Oct22 DAK3.5-1249_Oct22 17-03809/ DAK12-1016_Oct22 17-03809/ S3-3013_Jan23/ S3-3013_Jan23/ S3-3013_Jan23/ S3-60ck_Jan-22/ ssc check_Jan-22/ ssc check_J	Mar.24 Mar.24 Mar.24 Oct-23 Oct-23 Mar.24 Mar.24 Jan.24 Scheduled Check In house check: Jun.24 In house check: Jun.24
Primary Standards Power meter NRP-291 OCP DAK-3.5 (weighted) OCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power sensor E4412A RF generator HP 8648C	SN: 104778 SN: 103244 SN: 103244 SN: 1249 SN: 018 SN: 02552 (20x) SN: 050 SN: 3013 ID SN: 05841293874 SN: MY41498087 SN: 000110210 SN: US3642081700 SN: US3642081700 SN: US41080477	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCF- 20-Oct-22 (OCF- 30-Mar-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Jan-23 (No. 2 06-Apr-16 (in hou 06-Apr-16 (in hou	17-03904/03805) 17-03904/ DAK3.5-1249_Oct22 0AK12-1016_Oct22 17-03809) 3AE4-660_Mar23) 53-3013_Jan23} 53-3013_Jan23} 50480 se check Jun-22 se check Jun-22	Mar-24 Mar-24 Mar-24 Oct-23 Oct-23 Mar-24 Mar-24 Mar-24 Scheduled Check In house check: Jun-24 In house check: Jun-24
Primary Standards Power meter NRP-2 Power sensor NRP-291 OCP DAK-3.5 (weighted) OCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power sensor E44198 Power sensor E4412A Power sensor E4412A RF generator HP 8648C Network Analyzer E8358A	SN: 104778 SN: 103244 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x) SN: 650 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: 005110210 SN: US3642001700 SN: US3642001700 SN: US41080477 Name Jeitney Kataman	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP- 20-Oct-22 (OCP- 30-Mar-23 (No. 2 16-Mar-23 (No. 2 06-Jan-23 (No. E 06-Jan-23 (No. E 06-Apr-16 (in hot 06-Apr-16 (in hot 06-Apr-16 (in hot 06-Apr-16 (in hot 06-Apr-16 (in hot 06-Apr-16 (in hot 06-Apr-16 (in hot 131-Mar-14 (in hot 31-Mar-14 (in hot Laborator	17-03904/03805) 17-03904/ DAK3.5-1249_Oct22 0AK12-1016_Oct22 17-03809) 3AE4-660_Mar23) 53-3013_Jan23} 53-3013_Jan23} 50480 se check Jun-22 se check Jun-22	Mar-24 Mar-24 Mar-24 Oct-23 Oct-23 Oct-23 Mar-24 Mar-24 Mar-24 Scheduled Check In house check: Jun-24 In house check: Jun-24 Signature
Primary Standards Power meter NRP-2 Power sensor NRP-291 OCP DAK-3.5 (weighted) OCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power sensor E4412A Power sensor E4412A Power sensor E4412A RF generator HP 8648C Network Analyzer E8358A	SN: 104778 SN: 103244 SN: 103244 SN: 1036 SN: 660 SN: 660 SN: 3013 ID SN: 6841293874 SN: MY41496087 SN: 003110210 SN: US3642U01700 SN: US3642U01700 SN: US41080477 Name Jeffney Kataman Sven Kühn	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP- 30-Mar-23 (No. 2 16-Mar-23 (No. 2 06-Jan-23 (No. E 06-Jan-23 (No. E Check Date (In No. 06-Apr-16 (In No. 0	117-03804/03805) 117-03804) DAK3.5-1249_Oct22 DAK12-1016_Oct22 17-03809) X4E4-660_Mar23) S3-3013_Jan23) Duse) Ise check Jun-22) Ise check	Mar-24 Mar-24 Mar-24 Oct-23 Oct-23 Oct-23 Mar-24 Mar-24 Scheduled Check In house check: Jun-24 In house check J
Primary Standards Power meter NRP-2 Power sensor NRP-291 OCP DAK-3.5 (weighted) OCP DAK-3.5 (weighted) OCP DAK-12 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power sensor E4412A RF generator HP 8648C Network Analyzer E8358A Galibrated by Approved by	SN: 104778 SN: 103244 SN: 103244 SN: 1036 SN: 660 SN: 660 SN: 3013 ID SN: 6841293874 SN: MY41496087 SN: 003110210 SN: US3642U01700 SN: US3642U01700 SN: US41080477 Name Jeffney Kataman Sven Kühn	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP- 30-Mar-23 (No. 2 16-Mar-23 (No. 2 06-Jan-23 (No. E 06-Jan-23 (No. E Check Date (In No. 06-Apr-16 (In No. 0	117-03804/03805) 117-03804) DAK3.5-1249_Oct22 DAK12-1016_Oct22 17-03809) X4E4-660_Mar23) S3-3013_Jan23) Duse) Ise check Jun-22) Ise check	Mar-24 Mar-24 Mar-24 21 Oct-23 1 Oct-23 Mar-24 Mar-24 Mar-24 Scheduled Check In house check: Jun-24 In house check: Oct-24 Signature Signatur
Primary Standards Power meter NRP2 Power sensor NRP.291 OCP DAK-3.5 (weighted) OCP DAK-3.5 (weighted) OCP DAK-12 Reference 20 dB Abenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power sensor E4412A RF generator HP 8648C Network Analyzer E8358A Calibrated by Approved by	SN: 104778 SN: 103244 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41496087 SN: 0054108087 SN: US3642001700 SN: US364200 SN: US364200 SN: US364200 SN: US364200 SN: US364200 SN: US364200 SN: US364200 SN: US364200 SN: US364200 SN: US36420 SN: US364200 SN: US36420 SN: US3642	30-Mar-23 (No. 2 30-Mar-23 (No. 2 20-Oct-22 (OCP- 30-Mar-23 (No. 2 16-Mar-23 (No. 2 06-Jan-23 (No. E 06-Jan-23 (No. E Check Date (In No. 06-Apr-16 (In No. 0	17-03804/03805) 17-03804) DAK3.5-1249 Oct22 DAK12-1016 Oct22 17-03809) X4E-660 Mar23) S3-3013 Jan23) Du8e) Ise check Jun-22) Ise check Jun	Mar-24 Mar-24 Mar-24 21 Oct-23 1 Oct-23 1 Oct-23 Mar-24 Mar-24 Mar-24 Scheduled Check In house check: Jun-24 In house check: Oct-24 Signature Signature S. Ch S. Ch Issued: July 20, 2023 atory.

The report shall not be (partly) reproduced except in full without approval of the laboratory.



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



S

Schweizerischer Kalibrierdienst S Service suisse d'étalonnage C

Servizio svizzero di taratura

Swiss Calibration Service

Accreditation No.: SCS 0108

Glossary

TSL NORMx,y,z	tissue simulating liquid sensitivity in tree 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 w	w rotation around probe axis	
Polarization 8	If rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., 8 = 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 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NOFMx,y,z does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(I)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF
- · DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal, DCP does not depend on frequency nor media.
- · PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax, y,z; Bx, y,z; Cx, y,z; Dx, y,z; VRx, y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMX, y, z \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- · Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna
- · Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMs (no uncertainty required).

Certificate No: EX-3903 Jul23

Page 2 of 22



### July 19, 2023

# Parameters of Probe: EX3DV4 - SN:3903

### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm (µV/(V/m) <sup>2</sup> ) A	0.41	0.35	0.66	±10.1%
DCP (mV) B	101.0	106.8	104.4	±4.7%

### Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	c	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> k = 2	
0	CW	X	0.00	0.00	1.00	0.00	126.9	±1:3%	±4.7%	
		Y	0.00	0.00	1.00		138.4			
		Z	0.00	0,00	1.00		133.3			
10352	Pulse Waveform (200Hz, 10%)	X	20.00	89.94	20.25	10.00	60.0	±2.8%	±9.6%	
	19 - C - C	Y	10.00	80.00	17.00		60.0			
		2	1.40	60.00	5.88		60.0	1		
10353	Pulse Waveform (200Hz, 20%)	X	20.00	90.65	19.62	6.99	.80.0	±2.6%	±9.63	
	28 - 5 302	Y	2.80	68.39	11.38	(Conc.)	80.0	10000		
		Z	0.82	60.00	4.69		80.0	1		
10354	Pulse Waveform (200Hz, 40%)	X	20.00	93.04	19.51	3.98	95.0	+2.6%	±9.69	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y	1.42	65.81	8.99	100000	95.0	Contract-		
		Z	0.20	146.82	0.01		95.0	1		
10355	Pulse Waveform (200Hz, 60%)	X	20.00	95.53	19.39	2.22	120.0	±1.6%	±9.65	
	1	Y	0.41	60.55	5.52	1-21.0-2	120.0	23/10/1	= 00000	
		Z	6.52	160.00	12.54	1	120.0	1		
10387	QPSK Waveform, 1 MHz	X	1.62	65.67	14.63	1.00	150.0	±3.9%	±3.9%	+9.69
	2312200007222220000000000000000000000000	Y	1.41	65.09	13.77	Norden a	150.0	100.22		
		Z	0.46	62.17	11.34		150.0			
10388	QPSK Waveform, 10 MHz	X	2.16	67.69	15.39	0.00	150.0	±1.0%	±9.63	
		Y	1.90	66.55	14.67	00018053	150.0	22322001	952050	
		Z	1.23	65.05	13.30		150.0			
10396	64-QAM Waveform, 100 kHz	X	3.07	71.40	18.99	3.01	150.0	±1.0%	+9.69	
		Y	3.05	72.18	19.14	1.5548.110	150.0	1=19,81		
		Z	1.66	64.29	15.86	÷	150.0			
0399	64-QAM Waveform, 40 MHz	X	3.46	67.04	15.61	0.00	150.0	±2.5%	±9.6%	
		Y	3.25	66.47	15.19	0100364	150.0		AR 8400	
		Z	2.72	65.89	14.83		150.0			
0414	WLAN CCDF, 84-QAM, 40 MHz	X	4,84	65.82	15.42	0.00	150.0	±4.6%	+9.69	
	10 met war umwersteller eine materiale Austreau eine All	-Y-	4.60	65,33	15.17		150.0	125900/EL		
		Z	3.83	66.28	15.34		150.0			

Note: For details on UID parameters see Appendix

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

A The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6). Dinearization parameter uncertainty for maximum specified field strength. E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Certificate No: EX-3903\_Jul23

Page 3 of 22



### July 19, 2023

# Parameters of Probe: EX3DV4 - SN:3903

# Sensor Model Parameters

	C1 fF	C2 fF	ν <sup>α</sup> V <sup>-1</sup>	T1 msV <sup>-2</sup>	T2 ms V <sup>-1</sup>	T3 ms	T4 V-2	T5 V-1	T6
×	47.9	351,79	34.53	19.84	0.12	5.10	1.37	0.24	1.01
y.	39.3	284,46	33.61	9.56	0.89	5.00	1.83	0.12	1.01
2	9.3	66.97	33.34	3.28	0.00	4.90	0.36	0.02	1.00

### Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-83.6°
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 mm f
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 11111
Recommended Measurement Distance from Surface	1,4 mm

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

Certificate No: EX-3903\_Jul23

Page 4 of 22



### July 19, 2023

# Parameters of Probe: EX3DV4 - SN:3903

### Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>P</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
150	52.3	0.76	12.69	12.69	12,69	0.00	1.25	±13.3%
450	43.5	.0.87	11.17	11,17	11.17	0.16	1.30	±13.3%
750	41.9	0.89	10.32	10.28	9.48	0.40	1.27	±12.0%
835	41.5	0.90	9.79	8.99	8.89	0.40	1.27	±12.0%
900	41.5	0.97	9.88	9.13	9.26	0.40	1.27	±12.0%
1450	40.5	1.20	8.38	7.95	8.06	0.55	1.27	±12.0%
1750	40,1	1,37	8.93	8.41	8.50	0.30	1.27	±12.0%
1900	40.0	1,40	8.41	7.93	8.06	0.32	1.27	±12.0%
2300	39.5	1.67	8,06	7.61	7.76	0.34	1.27	±12.0%
2450	39.2	1.80	7.84	7:38	7.55	0.33	1.27	±12.0%
2600	39.0	1.96	7.87	7.41	7.60	0.32	1.27	±12.0%
3300	38,2	2.71	7.29	6.79	6.95	0.37	1.27	±14.0%
3500	37.9	2.91	7.12	6.66	6,81	0.37	1.27	±14.0%
3700	37.7	3.12	7.11	6.68	6.84	0.39	1.27	±14.0%
3900	37.5	3.32	7.16	6.69	6.89	0.39	1.27	±14.0%
4100	37.2	3.53	6.97	6.51	6.68	0.40	1.27	±14.0%
4400	36.9	3.84	6.66	6.22	6.39	0.41	1.27	±14.0%
4600	36.7	4.04	6.65	6.20	6.38	0.41	1.27	±14.0%
4800	36.4	4,25	6.70	6.26	6.44	0.40	1.27	±14.0%
5250	35.9	4.71	5.77	5.48	5,61	0.36	1.62	±14.0%
5600	35.5	5.07	5.03	4.68	4.80	0.41	1.67	±14.0%
5750	35.4	5.22	5.26	4,86	5.01	0.39	1.75	±14.0%
5800	35.3	5.27	5.17	4,79	4.92	0.39	1.78	±14.0%

<sup>C</sup> Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), etse it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity betwee 300 MHz is ±10, 25, 40, 50 and 70 MHz is 0.0 ConvF assessed at 51 MHz is 4–30 MHz, and ConvF assessed at 10 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±100 MHz. The whole strategies are calibrated uncertainty at calibration of the troppency validity can be extended to ±100 MHz. The value (typical) and the troppency validity can be extended to ±100 MHz. The value (typical) and the troppency validity can be extended to ±100 MHz. The value (typical) are used, the calibration uncertainties are 11.1% to 7.3 GHz and 10.1% to 2.4 GHz.

<sup>0</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after componisation is always less than ±1% for triquencies below 3 GHz and below ±2% for trequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

Certificate No: EX-3903\_Jul23

Page 5 of 22



### July 19, 2023

# Parameters of Probe: EX3DV4 - SN:3903

# Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
6500	34,5	6.07	5.44	5,12	5.29	0.20	2.00	±18.6%
7000	33.9	6.65	5,74	5.41	5.55	0.20	2.00	±18.6%
8000	32.7	7.84	5.55	5.22	5.35	0.44	1.41	±18.6%
9000	31.6	9.08	5.46	5.25	5.35	0.45	1,60	±18.6%

<sup>Cl</sup> Enquency validity at 6.5 GHz is -600<sup>1+</sup>700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at ostibuation triguency and the uncertainty for the indicated frequency band.
<sup>III</sup> The probes are calibrated using tissue simulating liquide (TSL) that deviate for z and or by less than ±10% from the target values (typically better than ±8%) and see which for TSL with deviations of up to ±10%.
<sup>III</sup> AphaDepth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±10% from the target values (1910±10%).
<sup>III</sup>

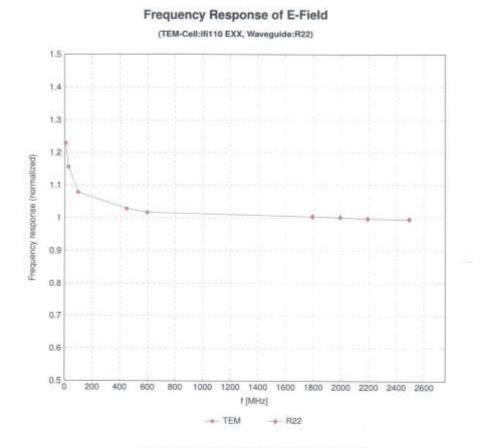
than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3–6 GHz; and below ±4% for frequencies between 8–10 GHz at any distance larger than half the probe tip diameter from the boundary.

Certificate No: EX-3903\_Jul23

Page 6 of 22



July 19, 2023



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

Certificate No: EX-3903\_Jul23

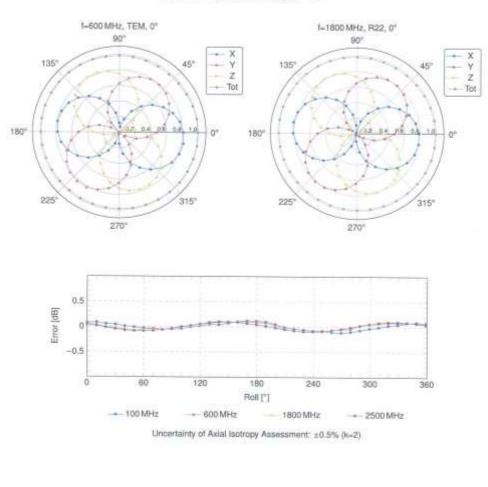
Page 7 of 22

The report shall not be (partly) reproduced except in full without approval of the laboratory.

July 19, 2023



EX30V4 - SN:3903



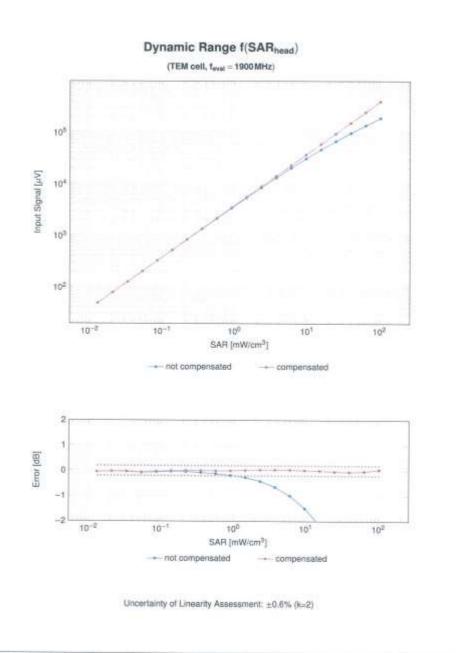
Receiving Pattern ( $\phi$ ),  $\vartheta = 0^{\circ}$ 

Certificate No: EX-3903\_Jul23

Page 8 of 22



July 19, 2023



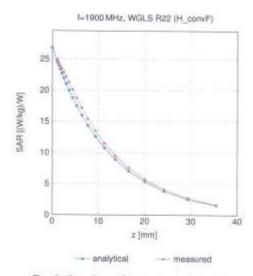
Certificate No: EX-3903\_Jul23

Page 9 of 22

The report shall not be (partly) reproduced except in full without approval of the laboratory.



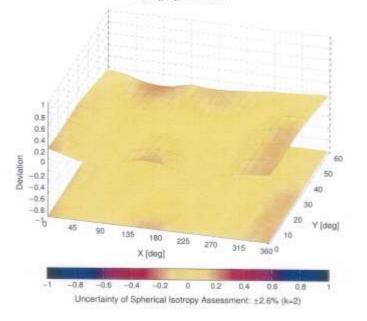
July 19, 2023



**Conversion Factor Assessment** 

# Deviation from Isotropy in Liquid

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



Certificate No: EX-3903\_Jul23

Page 10 of 22



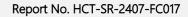
# July 19, 2023

# Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 1
0	in the	CW	CW	0.00	±4,7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802,11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9,6
10013	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFOM, 6 Mbps)	WLAN	9.46	±9.6
10021	DAG	GSM-FDD (TDMA, GMSK)	GSM	9,39	±9.6
10023	DAC	GPRS-FDO (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
10024	DAC:	GPRS-FDD (TDMA, GM5K, TN 0-1)	GSM	8.56	±9.6
10025	DAC	EDGE-FDD (TDMA, SPSK, TN-0)	GSM	12,62	±9.6
10026	DAC	EDGE-FOD (TDMA, SPSK, TN 0-1)	GSM	9.55	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4,90	19.6
10028	DAG	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	0.SM	3.55	19.6
10029	DAC	EDGE-FDD (TDMA, SPSK, TN 0-1-2)	GSM	7,78	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DHT)	Bluetooth	5.30	±9.6
10001	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	+9.6
10032	CAA	IEEE 902.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1,16	+9.6
10033	CAA	IEEE 802.15.1 Bluetooth (Pt/4-DQPSK, DH1)	Bluatooth	7.74	±9.6
10034	CAA	IEEE 802.15.1 8ketooth (Pt/4-DOPSK, DH3)	Bluetooth	4.53	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (Pt/4-DOPSK, DH5)	Bluetooth	3.83	19.8
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Elustooth	8,01	+9.6
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH2)	Bluetoath	4,77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	19.6
10039	CAB	COMA2000 (1x8TT, RC1)	CDMA2000	4,57	19.6
10042	CAB	IS-54 / IS-136 FDD (TDMA/FOM, PV4-DOPSK, Hafrate)	AMPS	7.78	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS.	0.00	+9.6
10048	CAA	DECT (TOD. TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	+9.6
10049	CAA	DECT (TDD, TDMA/FDM, GPSK, Double Slot, 12)	DECT	10,79	±9.6
10055	CAA	UMTS-TOD (TD-SCOMA, 1.28 Mops)	TD-SCOMA	11.01	19.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	+9.6
10058	CAB	IEEE 802.11b W/F) 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.15	+9.6
10060	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
10061	CAB	IEEE 802.11b WFi 2.4 GHz (DSSS, 11 Mbss)	WLAN	3.60	±8.6
10062	CAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	+8.6
10063	GAD	IEEE 882.11a/h WIFI 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10054	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps)	WLAN	6.03	#8.6
10.065	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	#9,6
10.006	CAD	IEEE 802.11a/h WIFI 5 CIHz (OFDM, 24 Mbps)	WLAN	9.38	19.5
10:067	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	19,0
10068	CAD	IEEE 802.11a/h WIFI S GHz (OFDM, 48 Mbps)	WLAN	10.12	
10.069	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps)	WLAN	10.24	19,6
10071	CAB	IEEE 802 11g WIFI 2.4 GHz (DSSS/OFDM, 9 Mbps)	WEAN	9.83	±9.6 ±9.6
10072	CAB	IEEE 802.11g WIFi 2.4 GHz (DSSS/OFDM, 12 Mbos)	WLAN	9,62	
10073	CAB	ELE 802.11g WIFi 2.4 GHu (DSSS/OFDM, 18 Mbps)	WLAN	9,02	19.6
10074	CAB	IEEE 802 11g WIFI 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
10075	CAE	IEEE 902 11g WIFI 2.4 GHz (DSSS/OFDM, 36 Mocs)	WLAN		19.6
10078	CAB:	EEE B02.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps)	Contraction of the local division of the loc	10,77	19.6
10077	CAB	EEE 902.11g WIFI 2.4 GHz (DSSS/OFDM, 46 Mbps)	WLAN WLAN	10,94	19.6
10081	CAB	COMA2000 (1xRTT, AC3)	CDMA2000	11.00	±9,6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FOM, Pv4-DOPSK, Fulrate)		3.97	19.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	AMPS	4,77	±9,6
10097	CAC.	UMTS-FDD (NSDPA)	GSM	8.56	±9.6
10098	GAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3,98	19.6
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	WCDMA.	3.98	±9.6
10100	CAF	LTE-FDD (SC-FOMA, 100% RB, 20 MHz, QPSK)	GSM	9.55	±9.8
10101	CAF	LTE-FDD (SC-FDMA, 100% HB, 20 MHz, GPSR)	LTE-FDD	5.67	±9.6
10102	CAF	LTE-FDD (SC-FOMA, 100% HB, 20 MHz, 16-CAM) LTE-FDD (SC-FOMA, 100% RB, 20 MHz, (4-CAM)	LTE-FDD	6.42	±9.6
10102	CAH		LTE-FOO	6.60	±9,6
10104	CAH	LTE-TOD (SC-FOMA, 100% AB, 20MHz, QPSK)	LTE-TOD	9.29	29.6
10104	CAH	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, 18-GAM)	LTE-TOD	9.97	±9.5
10105	CAH	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, 84-QAM)	LTE-TDD	10,01	±9.6
1010	1000	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, OPSK)	LTE-FDD	5.80	±9.6
10109	GAH.	LTE-FDD (SC-FDMA, 100% R8, 10 MHz, 16-QAM)	LTE-FDD	6,43	±9.6
10110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5MHz, QPSK)	LTE-FDD	5.75	+9.6
10111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-FDD	5.44	±9.6

Certificate No: EX-3903\_Jul23

Page 11 of 22



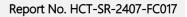


# July 19, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	UncE k =
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 54-QAM)	LTE-FDD	6.59	±.0.6
10113	CAH	LTE-FDD (SC-FDMA, 100% R8, 5 MHz, 64-GAM)	LTE-FDD	6.62	+0.6
10114	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	+9.0
10115	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	19.6
0115	CAD	IEEE 802.11n (HT Greenfield, 135 Mbps, 54-QAM)	WLAN	8,15	+9.6
0117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
0118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	
0119	CAD	IEEE 802.11n (HT Mixed, 135 Mops, 64-QAMI	WEAN		1.9,6
0140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	8.13	±8,6
0141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)		6.49	±9,6
0142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3MHz, QPSK)	LTE-FDD	6.53	±9.6
0143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3MHz, 15-QAM)	LTE-FDD	5.79	±9.6
0144	CAF		LTE-FDD	6.35	3,8±
	CAG	LTE-FDD (SC FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDO	6.65	±9.6
0145		LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5,76	29,6
0146	CAG	LTE-FDD (SC-FDMA, 100% R8, 1.4 MHz, 16-QAM)	LTE-FDO	.6.41	±9.6
0.147	CAG	LTE-FDD (SC-FDMA, 100% R8, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
0.149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6,42	. ±9.6
0150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDO	6.60	±9.6
0151	CAH	LTE-TOD (SC-FOMA, 50% AB, 20 MHz, GPSK)	LTE-TOD	.8.28	±9.6
0.152	CAH	LTE-TDD (SC-FDMA, 50% R8, 20 MHz, 15-QAM)	LTE-TDD	9.02	±9.6
0.150	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDO	10.05	10.6
0154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	+9.6
0155	CAH	LTE-FDD (SC-FDMA, 50% R8, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
0166	CAH	LTE-FDD (SC-FDMA, 50% B8, 5 MHz, OPSK)	LTE-FOD	5,79	19.6
0.157	CAH	LTE-FDD (SC-FDMA, 50% R8, 5 MHz, 16-QAM)	LTE-FDD	6,49	19.6
0158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64 QAM)	LTE-FDD	6.62	
0159	CAH	LTE-FDD (SC-FDWA, 50% R8, 5MHz, 64-QAM)	LTE-FDD		±9.6
0160	CAF	LTE-FDD (SC-FDMA, 50% R8, 15 MHz, OPSK)		6,56	±9.6
0161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	5,82	±9.6
0162	CAF		LTE-FDD	8,43	±9.6
	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
0166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, OPSK)	LTE-FDD	5,46	±9.6
	and the second second	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16 QAM)	LTE-FDD	8,21	±9.6
0168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
0169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6
0170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20MHz, 16-QAM)	LTE-FDD	8.52	±8.6
0171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-DAM)	LTE-FDD	6,49	±0.0
0172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	+9.6
0173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-DAM)	LTE-TDD	9,48	+9.6
0174	CAH	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 64-GAM)	LTE-TDD	10.25	±9.6
0175	CAH	LTE-FDD (SC-FOMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	6.72	+9.6
0176	GAH	LTE-FDD (SC-FDMA, 1 R8, 10 MHz, 16-QAM)	LTE-FDD	6.52	+8.6
0177	CAJ	LTE-FOD (SC-FDMA, 1 RB, 5 MHz, CPSK)	LTE-FDD	5.73	±9.6
0178	CAH	LTE-FOD (SC-FDMA, 1 R8, 5 MHz, 18-DAM)	LTE-FDD	6.62	±9.5
0179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±0.6
0180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	
0181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, GPSK)	LTE-FDD	all produces and	0.0±
0182	GAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	5.72	=9.6 ±9.6
0183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.52	
0184	CAF	LTE-FOD (SC-FDMA, 1 RB, 3 MHz, GPSK)	To Door 7.7	Contract in a second se	±9.6
1185	CAF	LTE-FDD (SC-FDMA, 1 HB, 3 MHz, 16 QAM)	LTE-FOD	5,73	±9.6
0186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-GAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-GAM)	LTE-FOD	4,51	±9.6
0187	CAG		UTE-FOD	6.50	±9.6
the second second	120.100	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
0188	C40	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6,52	±9.6
9810	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	8.50	±9.6
0.193	CAD	IEEE 802.11n (HT Greenfield, 6.5 Mope, BPSK)	WLAN	8.09	±9.6
0194	CAD	IEEE 002.11n (HT Greenfield, 38 Mbps, 16-QAM)	WLAN	0.12	±9.6
0195	CAD	IEEE 802.11n (HT Greenfield, 65 Mops, 64-QAM)	WLAN	8.25	±9.6
0196	CAD	IEEE 002.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
0197	CAD	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WEAN	8.13	±9.6
0198	CAD.	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
815.0	CAD	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	19.6
0220	CAD	IEEE 802.11n (HT Mixed, 43.3 Moon, 16-QAM)	WLAN	8.13	±9.6
0221	CAD	IEEE 802.11n (HT Mixed, 72.2 Mbox, 64-OAM)	WLAN	8.27	
0222	CAD	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN		±9.6
2223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-GAM)		8,06	±9.6
1224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 84-QAM)	WLAN	8,48	±9.8
- 6/6/T	200403	HOLE ONE, THE PTE WORD, 100 WEDD, 64-CAMM	WLAN.	8.08	=3.6

Certificate No: EX-3903 Jul23

Page 12 of 22



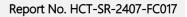


# July 19, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k =
10:225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	+9.5
10:226	GAC	LTE-TDD (SC-FDMA, 1 FIB, 1.4 MHz, 16-QAM)	LTE-TDO	9.49	±9.8
10,227	CAC	LTE-TDD (SC-FDMA, 1 R8, 1.4 MHz, 64-QAM)	LTE-TOO	10.26	±9.6
10.228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	:9.6
0.229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 18-QAM)	LTE-TDO	9,48	+9.8
0.230	CAE	LTE-TDD (SC-FDMA, 1 R8, 3 MHz, 64-QAM)	LTE-TDO	10,25	19.6
0.231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDO	9.19	±9.6
0.232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-TOO	9.48	±9.6
0233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TOD	10.25	19.6
0234	CAH	LTE-TDD (SC-FDMA, 1 R9, 5 MHz, QPSK)	LTE-TOD	9.21	19.6
0.235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0.236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TOD	10.25	
0237	CAH	LTE-TDD (SC-FDMA, 1 AB, 10MHz, QPSK)	LTE-TDD	9.21	19.6
0238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 18-QAM)	LTE-TOD	8,48	±9.6
0239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM)	LTE-TOD	77 61 3	19.6
0240	CAG	LTE-TOD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-TDD	10,25	±9.6
0241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)		9,21	±9.6
0242	CAC	LTE-TDD (SC-FDMA, 50% R8, 1.4 MHz, 64-QAM)	LTE-TDD	9,82	±9,6
0242	CAC		LTE-TDD	9.86	±9.6
	_	LTE-TD0 (SC-F0MA, 50% RB, 1,4 MHz, QPSK)	LTE-TDD	9.46	±9,0
9244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3MHz, 16-QAM)	LTE-TDD	10.06	19.6
0245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3MHz, 64-QAM)	LTE-TDD	10.06	±8.6
0246	CAE	LTE-TDD (SC-FDMA, 50% RB, 1 MHz, OPSK)	LTE-TDD	9.38	±8.8
0247	CAH	LTE-TOD (SC-FDMA, 50% RB, 5 MHz, 18-CAM)	LTE-TDD	9.91	±9.6
024B	CAH	LTE-TOD (SC-FOMA, 50% AB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6
0249	CAH	LTE-TOD (SC-FDMA, 50% RB, 5MHz, QPSK)	LTE-TDD	9.29	±9,6
0250	CAH	LTE-TOD (SC-FOMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9,6
0251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 54-QAM)	LTE-TDD	10.17	±9.6
0252	CAR	LTE-TOD (SC-FOMA, 50% RB, 10 MHz, GPSK)	LTE-TDD	9.24	±9.6
0253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	+9.6
0254	CAG	LTE-TOD (SC-FOMA, 50% RB, 15 MHz, 54-QAM)	LTE-TDD	10.14	+9.6
0255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
0.256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.06	±9.0
0.257	CAC	LTE-TD0 (SC-FOMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	+9.6
0258	GAC	LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, OPSK)	LTE-TDD	9.34	+9.5
0259	CAE	LTE-TOD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.8
0.260	CAE	LTE-TD0 (SC-FDMA, 100% HB, 3 MHz, 64-QAM)	LTE-TDD	9.97	+9.6
0201	CAE	LTE-TOD (SC-FOMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.0
0.262	CAH	LTE-TOD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-TDO	9.83	+9.0
0263	CAH	LTE-TOD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	+9.5
0264	CAH	LTE-TOD (SC-FDMA, 100% R8, 5MHz, QPSK)	LTE-TDO	9.23	±9.6
0.265	CAH	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDO	9.82	+9.6
0.266	CAH	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, 84-QAM)	LTE-TDD	10.07	=9.6
0267	CAH	LTE-TDD (SC-FDMA, 100% R8, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6
0.268	CAG	LTE-TOD (SC-FDMA, 100% RB, 15MHz, 18-OAM)	LTE-TDD	10.06	
1269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 84-QAM)	and the second sec		±9.6
0.270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	10.13	19.6
0274	CAG	UMTS-FDD (HSUPA, Sublest 5, 3GPP Rel8.10)		9,58	±9.6
0275	CAC	UMTS-FUD (HSUPA; Subtest 5, 3GPP Rel8.4)	WCOMA	4,87	±9.6
3275	CAA	PHS (QPSK)	WCOMA	3,96	±9.6
0278	CAA	PHS (QPSK, EW 884 MHz, Rolloff 0.5)	PHS	11,81	±9.6
0279	CAA	PHS (QPSK, BW 884 MHz, Holion 0.5) PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	11,81	±9.6
0290	AAB		PHS	12.18	±9,6
0200	AAB	COMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	土田,石
3292	AAB	COMA2000, RC3, SO55, Full Rate	CDMA2000	3,46	±9.6
description of	and the second second	CDMA2000, RC3, SO32, Full Rate	CEMA2000	3.39	19.6
3293	AAB	COMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	+9.6
295	AAB	COMA2000, RC1, SO3, 1/8th Rate 25 h.	CDMA2000	12.49	$\pm 9.6$
0297	AAE	LTE-FDD (SC-FOMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	19.6
298	AAE	LTE-FDD (SC-FOMA, 50% RB, 3 MHz, GPSK)	LTE-FDD	5,72	±9,6
5299	AAE	LTE-F00 (SC-F0MA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6,39	±9.6
1900	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 54-DAM)	LTE-FDD	6.60	±9,6
0.301	AAA	IEEE 802.166 WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUBC)	WMAX	12.03	±9.6
3005	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WMAX	12.57	=9.6
0.303	AAA.	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 84QAM, PUSC)	WINAX	12.52	=9.6
2304	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, 540AM, PUSC)	WMAX	11.86	=9.6
0.305	АДА	IEEE 802.16¢ WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WMAX	15.24	19.6
306	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WMAX	14.67	19.6

Certificate No: EX-3903\_Jul23

Page 13 of 22



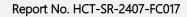


# July 19, 2023

UID	Hev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k =
10307	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, GPSK, 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 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WIMAX	14.58	+9.6
10310	AAA	IEEE 802.16e WIMAX (29.18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	XAMIW	14.57	+9.6
10311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	8.06	±0.6
10313	AAA	IDEN 13	IDEN.	10.51	10.0
10314	AAA	IDEN 1:6	IDEN	13.48	19.6
10315	AAB	IEEE 802.116 WIFI 2.4 GHz (DSSS, 1 Mbps. 96pc duty cycle)	WLAN	13,40	and the second se
10316	AAB	IEEE 802.11g WFI 2.4 GHz (ERP-OFOM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9,8
10317	AAD	IEEE 802.11a WIFI 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.8
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic		±9.6
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	10.00	±9.6
10.354	AAA	Pulse Waveform (200Hz, 40%)	and the set of the set		±9,6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	3.96	±9.0
10355	AAA	Putae Waveform (200Hz, 80%)	Contraction of the second s	2.22	±9.6
10387	AAA	OPSK Wawtorm, 1 MHz	Generic	0.97	±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.10	±9.6
10:395	AAA		Generic	5.22	±9,6
10399	and the second	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
10.400	AAA,	B4-QAM Waveform, 40 MHz	Generic	8.27	±9.8
	AAE	IEEE 802.11ac WIFI (20 MHz, 64-GAM, 98pc duty cycle)	WLAN	8.37	±9.6
0401	AAE	IFEE 802.11 ac WIFI (40 MHz, 64-GAM, 99pc duty cycle)	WLAN	8.60	±9.8
0.402	AAE	IEEE 802.11ac WIFi (80 MHz, 64-GAM, 99pc duty cycle)	WLAN	8.53	±9.8
0403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
6404	AAB	CDMA2000 (1xEV-DO, Rex. A)	CDMA2000	3,77	±9.6
10406	AAB	CDMA2000, RC3, SC32, SCH0, Full Rate	CDMA2000	5.22	±9.6
0410	AAH	LTE-TOD (SC-FDMA, 1 R8, 10 MHz, QPSK, UL Subtrame=2.3,4,7.8,8, Subtrame Cont=4)	LTE-TOD	7.82	±9.6
0.414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9,6
0415	AAA,	IEEE 802.11b WFI 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WEAN	1.54	±9.6
0416	AAA.	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycla)	WLAN	6.23	±9.6
10.417	AAC	IEEE 802.11a/h WIFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	+8.6
0418	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambole)	WLAN	8.14	±9.6
0.419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFOM, 6 Mbps, 99pc duty cycle, Short presembule)	WLAN	8.19	±9.6
10.422	AAC	IEEE 802.11n (HT Groonfield, 7.2 Mbps, BPSK)	WLAN	8.32	+9.6
0.423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.67	±9.6
0424	AAC	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	+9.6
10425	AAC	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
0426	AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-GAM)	WLAN	0.45	±9.6
0.427	AAC	EEE 802.11n (HT Greenfield, 160 Mbps, 64-QAM)	WLAN	8.41	+9.6
10430	AAE	LTE-FOD (CFDMA, 6MHz, E-TM 3.1)	LTE-FDD	8.28	+9.6
0431	AAE	LTE-FDD (OFDMA, 10MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
0432	AAD	LTE-FDD (OFDMA, 15MHz, E-TM 0.1)	LTE-FDD	8.34	±9.6
0.433	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
0434	AAB	W-CDMA (BS Test Model 1, 54 DPCH)	WCOMA	8,50	
0435	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subhame-2,3,4,7,8,9)			±9.6
0447	AAE	LTE-FDD (OFDMA, 5MHz, E-TM 3.1, Capping 44%)	LTE-TDD	7.82	±9.6
0448	AAF	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7,56	19.6
0449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cloing 44%)	LTE-FDD	7,53	±9.8
0.450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	±9.6
0451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	LTE-FDD	7,48	19,8
0453	AAE.	Validation (Bostest Model 1, 64 DPCH, Cipping 44%)	WEDMA	7.59	±9,6
0455	AAC		Test	10.00	±9.8
0450	AAB	IEEE 802.11ac WIFI (160 MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA)	WLAN	8.63	19.6
0457	AAA		WCDMA	6.62	±9.5
		CDMA2000 (1xEV-DC. Rev. 6. 2 carriers)	CDMA2600	6.55	±8.6
0.459	AAA	CDMA2000 (1xEV-DO, Rev. B. 3 carriers)	CDMA2000	8.25	±9.6
0.450	AAD	UMTS-FDD (WCDMA, AMR)	WEDMA	2.39	+8.6
0.461		LTE-TOD (SC-FOMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±8.8
0462	AAC.	LTE-100 (SC-FDMA, 1 RB, 1,4 MHz, 16-QAM, UL Subframe+2,3,4,7,8,9)	LTE-TDD	8.30	±9.6
0.483	AAC	LTE-TOD (SC-FDMA, 1 RB, 1.4 MHz, 54-QAM, UL Subhame+2,3,4,7,8,9)	LTE-TDD	8.56	=9.6
0.454	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2.3.4,7.8.9)	LTE TOO	7.82	±9.5
0465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-GAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
0.466	AAD	LTE-TOD (SC-FDMA, 1 FIB, 3 MHz, 64-QAM, UL Subhame=2,3,4,7,0,9)	LTE-TOO	8.57	±9.6
0.467	AAG	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD	7,82	±9.6
0468	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-GAM, UL Subtrame+2,3,4,7,8,9)	LTE-TDO	8.32	±9.6
0.469	AAG	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDO	8.55	19.6
0470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, GPSK, UL Subframe=2,3,4,7,8,8)	LTE-TDD	7.82	±9.6
0471	AAG.	LTE-TDD (SC-FDMA, 1 R8, 10 MHz, 16-QAM, UL Subtraria+2,3,4,7,8,9)	LTE-TDD	8.32	19.6

Certificate No: EX-3903\_Jut23

Page 14 of 22



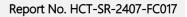


# July 19, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>e</sup> k =
0472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-GAM, UL Subtrame+2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10.473	AAF	LTE-TOD (SC-FDMA, 1 R8, 15 MHz, QPSK, UL Subframe=2.3,4,7 8,9)	LTE-TDD	7.82	=9.6
0474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subhame-2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
0475	AAF	LTE-TDD (SC-FDMA, 1 FB, 15 MHz, 54-QAM, UL Subtranse 2.3.4,7,8.9)	LTE-TDO	8.57	±8.6
0477	AAG	LTE-TDD (SC-FDMA, 1 R8, 20 MHz, 16-QAM, UL Subtrame=2.3.4,7.8.9)	LTE-TDO	8.32	=9.6
0.478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±8.6
0.479	AAC	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDO	7.74	±9.6
0480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subhame-2.3.4,7.8.9)	LTE-TOO		
0481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subhame=2.3.4,7.8.9)	LTE-TDD	8,18 8.45	±9.6
0.482	AAD	LTE-TOD (SC-FDMA, 50% RB, 3 MHz, OPSK, UL Subframe-23.4,7 & 9)	LTE-TOD	7.71	±9,6
0483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subhamele,2,3,4,7,6,9)	the second se		±9.6
0484	AAD		LTE-TOD	8.39	±9.6
0.485	AAG	LTE-TDD (SC-FDMA, 50% RB, 3MHz, 64-QAM, UL Subtrame=2.3.4.7,8.9)	LTE-TDO	8.47	±9.6
0486	AAG	LTIL-TDD (SC-FDMA, 50% RB, SMHz, QPSK, UL Subframe=2.3.4.7.8.9)	LTE-TOO	7.59	±9.8
	100 C	LTE-TDD (SC-FDMA, 60% RB, 5MHz, 16-QAM, UL SubVame-2.3.4,7.8.9)	UTE-TDD	8.38	$\pm 0.6$
0487	AAG	LTE-TDD (SC-FDMA, 50% R8, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDO	8.60	±9.6
0.488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDO	7,70	土泉,后
0.489	AAG	LTE-TOD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UK Subtrame=2,3,4,7,8,9)	LTE-TDD	0.31	±9.6
0.490	AAG	LTE-TOD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subhame=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
0491	AAF:	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Bubliame=2,3,4,7,8,9)	LTE-TOO	7.76	±9.6
0.492	AAF-	LTE-TOD (SC-FDMA, 50% RR, 15MHz, 16-QAM, UL Sub/rame+2.3,4,7,8,9)	LTE-TDD	8.41	±9.6
0493	AAF	LTE-TOD (SC-FDMA, 50% R8, 15MHz, 64-QAM, UL Subhame+2.1.4,7.8.9)	LTE-TD0	8.55	±9.6
0.494	AAG	LTE-TDD (SC-FDMA, 50% R8, 20MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDO	7,74	±9.6
0.495	AAG	LTE-TDD (SC-FDMA, 50% R8, 20 MHz, 18-GAM, UL Subframe-2,3,4,7,8,8)	LTE-TDD	8.37	±9.6
0.496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20MHz, 64-QAM, UL Subframe=2.0.4,7.8.9)	LTE-TOD	8.54	±9.6
0.497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe+2.3.4.7.8.9)	LTE-TDD	7.67	19.6
0498	AAC	LTE-TDD (SC-FDMA, 100% R8, 1.4 MHz, 16-QAM, UL Subframe-2,3,4,7,8,9)	LTE-TDD	8,40	12.0
0.499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subtrame-2.3,4,7.8,9)	LTE-TDD	8,68	±9.6
0500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3MHz, OPSK, UL Subtrame-2,3.4,7,8,9)	LTE-TDD		
0.501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subframe-2.3,4,7,8,9)		7.57	±9,6
0502	AAD		LTE-TDD	8,44	±9.6
_		LTE-TDD (SC-FDMA, 100% FIB, 3MHz, 64-QAM, UL, Subframe=2.3,4,7 8.9)	LTE-TDD	8.52	±9.6
0503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7,72	±9.6
0504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
0.508	AAG	LTE-TDD (SC-FDMA, 100% RB, SMHz, 64-QAM, UL, Subframe=2.3,4,7,8,9)	LTE-TDD	8.54	±9.6
0506	AAG	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, GPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7,74	±9.6
0507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 10-GAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6
0508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe-2,3,4,7,8,9)	LTE-TOD	8.55	±9.6
0509	AAF	LTE-TDD (SC-FDMA, 100% AB, 16 MHz, QPSK, UL Subhama 2,3,4,7,8,9)	LTE-TDO	.7.99	±9.8
0510	AAE	LTE-TDD (SC-FDMA, 100% R8, 15MHz, 16-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	0.49	±9.6
05tt	AAF	LTE-TDD (SC-FDMA, 100% FIB, 15 MHz, 84-QAM, UI, Subframe=2,3,4,7,8,9)	LTE-TDD	0.51	±9.6
0512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subtrane=2,3,4,7,6,9)	LTE-TDD	7,74	+9.6
8513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9)	1TE-TDD	8.42	+9.6
8514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)	1TE-TDD	8.45	±9.6
0515	AAA	IEEE 002 11tr WIFI 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycla)	WLAN	1.58	19.6
0510	AAA.	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	+9.6
0517	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WI AN	1.58	±9.6
0518	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	
0618	AAC	IEEE 802.11a/h WIFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	19.6 ±9.6
0520	AAC	IEEE 802.11a/n WFI 5 GHz (OFDM, 18 Mbps, 99c duty cycle)	WLAN	8.39	
0521	AAC	IEEE 802.11ah WFI 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN		±9.6
0622	AAC	IEEE 802.11ah WFI 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)		7.97	±9,6
0522	AAC		WLAN	8,45	±9.6
		IEEE 802.11a/h WFI 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
0524	AAC	IEEE 800,11ah WFI 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	19.6
0525	AAG	IEEE 802.11ac WIFI (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.36	±9.6
0526	AAC	IEEE 802.11ac WIFI (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	+9,6
0.627	AAG	IEEE 808.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
0528	AAD.	IEEE 802.11ac WIFI (20 MHz, MGS3, 99pc duty cycle)	WLAN	8.36	±9.5
0529	AAC	IEEE 802,11ac WIFI (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	±9.6
0531	AAC	IEEE 802.11ac WiFi (20 MHz, MC56, 99pc duty cycle)	WLAN	8.43	±9.6
0532	AAC	IEEE 802.11ac WIFI (20 MHz, MC57, 99pc duty cycle)	WLAN	8.29	+9.5
0533	AAC	IEEE 802.11ac WiFI (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.5
0534	AAD	IEEE 802,11ac WIFI (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±8.6
0.535	AAC.	IEEE 802.11ac WIFI (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±8.6
0536	AAC.	IEEE 802.11ac Will (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	and the second se
0.537	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)	WLAN	0.32	=8,6
		IEEE 802.11ac WFI (40 MHz, MCS4, 99pc mity cycle)	WLAN	8.54	±9.6 ±9.6
0538	AAC.				

Certificate No: EX-3903\_Jul23

Page 15 of 22





# July 19, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	UncE k =
10:543	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.46	+9.6
10:542	AAC-	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pt duty cycle)	WSAN	1.65	:9.6
10543	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WEAN	8.65	±9.6
10544	AAC	IEEE 802,11ac WFI (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.0
10545	AAC	IEEE 802,11 tec WIF) (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	19.6
10546	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
10547	AAC	IEEE 802,11ac WIFI (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	19.8
10/548	AAC	IEEE 802,11ac WFI (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	19.6
10550	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)	WLAN	0.38	19.6
10551	AAC	IEEE 902.11ac WIFI (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	1.9.6
10552	AAC	IEEE 802.11ac WiFi (50 MHz, MCS5. 99pc duty cycle)	WLAN	8.42	
10553	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 98pc duty cycle)	WLAN	8.45	±9.8 ±9.6
10554	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	the second se	
10555	AAD	IEEE 902,11ac WiFi (160 MHz, MCS1, 99pc duty cycle)		8.48	±9.0
10556	AAD	IEEE 802.11ac WIFI (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.47	±9.6
10557	AAD	IEEE 802.11ac WiFi (100 MHz, MCS3, 99pc duty cycle)	WLAN	8.50	±9.6
10558	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.52	±9.6
10560	AAD	IEEE BOOLT AN WITH CIRCUMPTER MILLION, SEPTEMBER OF THE STORE AND A STORE AND	WLAN	8.61	±9.6
10561	AAD	IEEE 802.11ac WiFi (160 MHz, MC56, 99pc duty cycle)	WLAN	8.73	±9.6
		IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8,56	±9.6
10562	DAA	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8,69	±9.6
0563	AAD	IEEE 802.11ac WIFI (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10564	A,A,A	IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	19.6
10565	AAA	IEEE 802.11g WIFI 2.4 GHz (OSSS-OFDM, 12 Mbps, 99pc duty sycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8,13	$\pm 9.6$
10567	AAA	IEEE 802,11g WIFI 2.4 GHz (DSSS-OFDM, 24 Mbpe; 99pc duty cycle)	WLAN	8.00	±9.6
10558	AAA.	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 35 Mbps, 99pc duty cycle)	WEAN	8.37	±9.5
10.569	AAA	IEEE 902.11g WIFI 2.4 GHz (DSSS-OFOM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±0.6
10,570	AAA.	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFEM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	=9.6
0.571	AAA	EEE 802.11b WIFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	:8.6
0.572	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	+9.6
0573	AAA	IEEE 802.11b WIFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±0.6
0574	AAA	IEEE 602.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.95	+9.6
10875	AAA	EEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	+9.6
0576	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9Mbps, 90pc duty cycle)	WLAN	8,60	+9.6
0577	AAA	IEEE 802.11g WIFi 2.4 GHz (DSS5 OFDM, 12 Mbm, 90pc duty cycle)	WLAN	8,70	and the second se
10678	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	1211/2	±9.6
0570	AAA	IEEE (K02,11g WIFI 2.4 GHz (DSSS-OFDM, 24 Mtps, 90pc outy cycle)		8,49	±9.6
0580	AAA	IEEE 802.11g WIF 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8,36	土9.0
0581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSS5-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
0582	AAA	IEEE 800, 11g WF1 2.4 GHz (DSS5-OFDM, 54 Mbps, 90pc duty cycle)		10,000	±9.6
0583	AAC	IEEE 802.11a/b WiFI 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
0584	AAC	TEEE 802 11-2 WELCON CODM, ENDOR, SOC duty cycle)	WLAN	8.89	±9,8
0585	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
0586	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 90ps duty cycle)	WLAN	8.70	±9.6
		IEEE 802.11a/t WIFi S GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	₽;₽±
0587	AAG	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mope, 90pc duty cycle)	WLAN	8.36	±9.8
0588	AAC	IEEE 802.11wh WiFi fi GHz (OFDM, 38 Mbps, 90pc duty cycle)	WLAN	8.76	±0.0
	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 98pc duty cycle)	WLAN	6.35	±9.6
0590	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
0.591	ANC	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.63	±9.6
0.592	AAC.	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8,79	±9.6
0.593	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6
0594	AAC	EEE 802,11n (HT Mixed, 23 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
0695	AAC	IEEE 802.11n (HT Mixed, 29 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
0596	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MGS5, 90pc duty cycle)	WLAN	8,71	+9.6
0587	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS8, 90pc duty cycle)	WLAN	8.72	+9.6
0699	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MOS7, 90pc duty cycle)	WLAN	8.50	19.6
0599	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	19.6
0600	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	5.88	+9.6
0601	AAC	IEEE 802.11n (HT Mised, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6
0602	AAC	IEEE 602.11n OHT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	
0603	AAD	IEEE 802,11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)			#9,8
0604	AAC.	IEEE 802,11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	9.03	±9.6
0.805	AAC.	IEEE 802.11n (HT Mood, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.76	出现;后
0.505	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.97	±9.6
0608	AAC	IEEE 802.111 (H1 Moseo, 40 MH2, MCS7, stopc duty cycle) IEEE 802.11ac WIFi (20 MHz, MCS0, 90pc duty cycle)	WEAN	8.82	±9.6
0608	AAC	EEE 802 The INCLOSED AND AREA AND A ADD CUTY OVER	WLAN	8.64	19.6
UCUD	PAPER .	IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.77	19.6

Certificate No: EX-3903\_Jul23

Page 16 of 22



# July 19, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k =
10609	AAG	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	=9.6
10610	AAC	IEEE 802.11ac WIFI (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAC	IEEE 802.11an WIFI (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
18612	AAC	IEEE 902.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8,77	8.6±
10613	AAC	IEEE 802.11ac WIFI (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
10614	AAC	IEEE 802.11ac WIFI (20 MHz, MCS7, 90pc duty cycle)	WLAN	8,59	±9.6
10615	AAC	IEEE 802.11ac WIFI (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	19.6
10616	AAC	IEEE 802.11ac Willi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	AAC	IEEE 802.11ac WIFI (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10610	AAG	IEEE 802.11ac WiFI (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10620	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAC	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAC	IEEE 802.11ac WIFI (40 MHz, MC58, 90pc duty cycle)	WLAN	8.68	<b>未9.6</b>
10623	AAC	IEEE 602.11ac WIFI (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±5.6
10624	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN	8,96	±9.6
10625	AAC	IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle)	WLAN.	8,96	+9.6
10626	AAC	IEEE 802.11ac WIFI (80 MHz, MCS0, 90pc duty cycle)	WI.AN	8.83	±9.6
10627	AAC	IEEE 802,11ac WIFI (80 MHz, MCS1, 90pc duty cycle)	WLAN	8,88	±9.6
10628	AAC	IEEE 802.11ac WIFI (80 MHz, MCS2, 90pc duty cycle)	WLAN	8,71	±9,6
10629	AAC	IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10630	AAC	IEEE 802.11ac WiFi (S0 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.8
10631	AAC	IEEE 802.11ac WIFi (80 MHz, MCSS, 90pc duty cycle)	WLAN	8.81	19,6
10632	AAC.	IEEE 802.11ac WIFI (80 MHz, MC56, 90pc duty cycle)	WLAN	8.74	±9.6
10633	AAG	IEEE 802,11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	6.83	±9.6
10634	AAC	IEEE 802.11ac WIFI (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.8
10635	AAC	IEEE 802.11ac WIFI (80 MHz, MC59, 90pc duty cycle)	WLAN	8.81	19.6
10638	AAD	IEEE 802.11ac WIFI (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.5
10637	AAD	IEEE 802.11ac WIFI (160 MHz, MCS1, 90pc duty cycle)	WLAN	8,79	±9.6
10638	AAD	IEEE 802.11ac WIFI (160 MHz, MC52, 90pc duty cycle)	WLAN	8.86	±9,6
10639	AAD	IEEE 802.11an WIFI (160 MHz, MCS3, 90pc duty cycle)	WLAN.	8.85	#9.6
10640	AAD	IEEE 802.11ac WIFI (160 MHz, MCS4. 90pc duty cycle)	WLAN	8.98	#8,8
10641	AAD	IEEE 602.11ac WIF (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	$\pm 9.6$
10:642	AAD	IEEE 802.11ac WIFI (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	=9.6
10:543	AAD	IEEE 802.11ac WFI (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9,6
10.011	AAD	IEEE 802.11ac WFI (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	=0.6
10645	AAD	IEEE 802,11ac WFI (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.11	±9.6
10646	AAH AAG	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe-2,7)	LTE-TOD	11,96	±9,8
10:648	AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe+2.7)	LTE-TDO	11.96	±9.6
and the second second	and the local data in the loca	CDMA2000 (1x Advanced)	CDM42000	2,45	+9.6
10652	AAF	LTE-TDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	6,91	±9,6
10663	AAE	LTE-TDD (CFDMA, 10 MHz, E-TM 3.1, Ctopping 44%)	LTE-TDD	7,42	±9.6
10655	AAF	LTE-TOD (OFOMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDO	6,95	±9.6
10658	AAB	LTE-TOD (OFOMA, 20 MHz, E-TM 3.1, Clipping 44%) Pulse Waveform (200Hz, 10%)	LTE-TOD	7,21	±9.6
10659	BAA	Pulse Waveform (200Hz, 10%) Pulse Waveform (200Hz, 20%)	Tent	10,00	19.6
10660	AAB		Test	6,99	±9.6
	AAB	Pulse Waveform (200Hz, 40%)	Test	3.08	主急后
10661	BAA	Pulse Waveform (200Hz, 60%)	Test	2.22	±9,6
10670	AAA	Pulse Waveform (200Hz, 60%) Bisativeth Low Energy	Test	0.97	±9.6
10671	AAC	Bluetooth Low Energy IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	Bluetooth	2,19	+9,6
10672	AAC	IEEE Soc. 11ax (20 MHz, MCS0, sope duty cycle) IEEE Soc.11ax (20 MHz, MCS1, Sope duty cycle)	WLAN	9.09	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WEAN.	8.57	19.6
0674	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle) IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8,78	±9.5
0675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN:	8.74	±9.6
0575	AAC	IEEE 802.11ax (20 MHz, MCSS, 90pc duty cycle)	WLAN	8.90	19.6
0677	AAC	IEEE 802.11ax (20 MHz, MCSS, 90pc duty cycle)	WLAN	8.77	±9.8
0678	AAC.	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN		±9;6
0679	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)		8.78	#9.6
0680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.89	#9.5
0.681	AAC		WLAN	8.80	±9.6
0.682	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9,6
0.683	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8,83	±9.6
0683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8,42	土9.6
	100 C	EEE 802.11ax (20 MHz, MCB1, 95pc duty cycle)	WLAN	8.25	主9.6
0686	AAC	EEE 802 11 as (20 MHz, MCS2, 99pc duty cycle)	WLAN	8,33	±9.6
	AAC.	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6

Certificate No: EX-3903\_Jul23

Page 17 of 22



# July 19, 2023

UND	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k =
0687	AAC	IEEE 802.11ax (20 MHz, MC54, 99pc duty cycle)	WLAN	8.45	±9.5
10-088	AAC	IEEE 802.11ax (20 MHz, MCS5, 89pc duty cycle)	WLAN	8.29	0.0
10:689	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.55	=9.6
18690	AAC	IEEE 002.11 ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.29	+9.6
10691	AAC	IEEE 002,11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	19.6
10692	AAC	IEEE 882.11ax (20 MHz, MCS9, 98pc duty cycle)	WLAN	8,29	+9.6
10693	AAC	IEEE 802.11ax (20 MHz, MC510, 99pc duty cycle)	WLAN	8.25	±9.6
10694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	19.6
10695	AAC	IEEE 802,11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	0.78	19.6
10696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN		
10697	AAC	IEEE 802:11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
10698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
10699	AAC	IEEE 802.11ex (40 MHz, MCS4, 90pc duty cycle)			±9.6
10700	AAC	IEEE 902.11ai (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.82	±9.6
10701	AAC	IEEE boo it as (40 white words, expediate cycle)	WLAN	6,73	±9.6
10702	AAC	IEEE B02.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.86	±9,6
10702	AAC	HEEE 602.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	19.6
and the second second	and the local data	IEEE 802,11 ax (40 MHz, MCS8, 90pc duty cycle)	WLAN.	8.82	±9.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.8
10705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8,69	±9,6
10708	AAC	IEEE 602,11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
10708	AAC	IEEE 802.11ax (40 MHz; MCS1, 99pc duty cycle)	WLAN	8.55	19.6
10709	AAC	IEEE 802,11ax (40 MHz, MCS2, 99pc duty cycla)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.8
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN:	8.39	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	19.5
10714	AAC.	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	+9.6
10715	AAC	IEEE 602.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8,45	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	+9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8.48	+9.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	19.6
10719	AAC	IEEE 802,11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	10.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	+9.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	the second se
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10724	AAC	IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)	WLAN	8.90	19.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	100 100 100
10725	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN		±9.6
10727	AAC	IEEE 902.11ax (80 MHz, MCS8, 90pc duty cycle)		8.72	±9,8
10728	AAC	EEE 802.11ax (80 MHz, MCS8, 80pc duty cycle)	WLAN	8.66	8,8
THE R. P. LEWIS CO., LANSING MICH.	and the second		WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	≣₿;8
	1.	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	<b>世</b> 第.6
10731	AAG	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	三9,6
10732	AAC.	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	<b>≣</b> 9,6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.40	±9.6
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WEAN	6,25	±9.6
10735	AAC.	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	3.9.6
10736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8,27	±9.6
10737	AAC.	IEEE 802.11ax (80 MHz, MCSS, 99pc duty cycle)	WEAN	8,36	±9.6
10738	AAC.	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8,42	±9.6
10739	AAC	#EEE 802.11 ax (80 MHz, MC58, 99pc duty cycle)	WLAN	8.29	19.6
10740	AAC	IEEE 802 11ax (80 MHz, MC59, 89pc duty cycle)	WLAN	8,48	±9.6
0.741	AAC.	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	19.6
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN.	8,43	±9.6
0743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	19.6
10744	AAC	IEEE 902.11ax (16D/MHz, MCS1, 90pc duty cycle)	WLAN	9.16	19.6
0745	AAC	IEEE 802.11av (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	19.6
10748	AAC	IEEE 802.11av (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	19.6
10747	AAC.	IEEE 802.11ax (150 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	
10748	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6
10749	AAC.	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	the second se	19.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	100 million 100	8.90	±9.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.79	±9.6
10752	AAC		WLAN	8.82	±9.6
	PARTS	IEEE 802.11 ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	19.6

Certificate No: EX-3903\_Jul23

Page 18 of 22



# July 19, 2023

	·Rev-	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k =
10753	AAG	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.0
0.754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	.8.94	+9.6
10755	AAG	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
10757	AAC .	IEEE 802.11ax (160 MHz, MCS2, 99pc duly cycle)	WLAN	8.77	1.9.6
10,758	AAG	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	+9.6
10759	AAG	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	$\pm 9.6$
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6
10762	AAG	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.8
0763	AAC .	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
0764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	$\pm 9.6$
0765	AAC	IEEE 002.11ax (160 MHz, MCS10, 99pc outy cycle)	WLAN	8.54	±9,6
0766	AAC	EEE 802,11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN:	8.51	±9.6
0.767	AAE	5G NR (CP-OFDM, 1 R8, 5 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9,6
0768	AAD	SG NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.01	±9.6
0769	AAD	5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.01	±9.6
0770	AAD	SG NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 15kHz)	5G NR FR1 TDD	8.02	±9.6
0771	AAD	5G NH (CP-OFDM, 1 RB, 25 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
0772	AAD	SG NR (CP-OFDM, 1 RB, 30 MHz, OPSK, 15kHz)	5G NR FR1 TDD	H.23	±9.6
0773	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, OPSK, 15kHz)	5G NR FR1 TDD	8,03	±9.6
0774	AAD	SG NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 15kHz)	5G NR FR1 TDD	8,02	±9.6
0775	AAD	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
0776	(JAA)	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FRI TDD	8.30	±9.6
10 1 0 C	AAC	6G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,30	±9.6
0778	2120.000	5G NR (CP OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	50 NR FR1 TDD	8,34	±9.6
0779	AAC	5G NR (CP-OFDM, 50% HB: 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,42	±9.6
0780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G-NR FR1 TDD	8.38	土9,6
0781	AAD	SG NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FRI TDD	8.38	±9,6
0782	AAD	5G NR (CP-OFDM, 50% R8, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	0.43	±9.6
0783	AAE	5G/NR (CP-OFDM, 100% R8, 5 MHz, QPSK, 15 kHz)	5G-NR FR1 TDD	8.31	±9.6
0785	AAD	5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.29	±9.6
		5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.40	±9.6
0786	AAD	5G NR (CP-OFDM, 100% R8, 20MHz, OPSK, 15kHz)	5G-NR FR1 TDD	8.35	$\pm 0.6$
0788	AAD	5G NR (CP-OFDM, 100% RB, 25MHz, OPSK, 15kHz)	5G NR FR1 TDD	8.44	±9.6
0789	AAD	5B NR (CP-OFDM, 100% RB, 30 MHz, OPSK, 15kHz)	5G NR FR1 TDD	8.39	+9.6
0700	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15hHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15kHz)	SG NR FRI TOD	8,37	±9.6
0791	AAE	5G NR (CP-OFOM, 1005 HB, 50 MHz, CP5K, 15 kHz) 5G NR (CP-OFOM, 1 RB, 50 MHz, CP5K, 30 kHz)	6G NR FR1 TD0	8.39	±9,6
0792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 30 kHz)	SG NR FR1 TOD	7,83	±9.6
0793	AAD	5G NR (CP-OFDM, 1 RB, 15MHz, OPSK, 30xHz)	5G NR FR1 TDD	7.92	±9.6
0.794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, OFSK, 30 kHz)	SG NA FAI TOO	7.95	±9.6
0795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, OPSK, 30 kHz)	50 NR FR1 TDD	7.82	19.6
0796	AAD	5G NR (OP-OFDM, FRB, 38 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	7,84	±9.6
0797	AAD	SG NR (CP-OFDM, 1 HB, 40 MHz, CPSK, 30 kHz)	5G NR FRI TDD	7.B2	±9.6
0.798	AAD.	SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	8.01	19.6
0.799	AAD	SG NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	7,89	±9.6
0801	AAD	SG NR (CP-OFDM, 1 R8, 88 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	7.93	19.6
0862	AAD	SG NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	19.6
0603	AAD	SG NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	7,87	+9.6
0805	AAD	SG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	7,93	±9,6
0006	AAD	SG NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 Hz)	3G NR FR1 T00	8.34	±9.8 +9.6
0809	AAD	SG NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 MHz)	SG NR FR1 TDD	8.34	
0810	AAD	SG NR (CP-OFOM, 50% RB, 40 MHz, QPSK, 30 KHz)	50 NR FR1 TDD	8.34	±9.6
0612	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	8.34	19.6
0817	AAE.	5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.35	±9.6
0018	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30kHz)	5G NR FR1 TDD	8.35	19.5
0819	AAD	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 30kHz)	5G NR FR1 TDD	8.34	+9.6
0820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QP5K, 30 kHz)	5G NR FR1 TDD	8.30	+9.6
0.821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.41	
0.822	AAD	50 NR (CP-OFDM, 100% RB. 30 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	and the second s	±9.6
0.823	AAD	SG NR (CP-OFDM, 100% RB, 40 MHz, QP5K, 30 KHz)	5G NR FR1 TDD	8.36	±9.6
	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)			±9.6
0874			5G NR FR1 TDD	8.39	±9.6
0.824	640	5G NR /CF-OFDM, 100% RR, 6548-4 /OPEK 304444			
0.824 0.825 0.827	AAD AAD	6G NR (CP-OFDM, 100% RB, 80 MHz, GPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 80 MHz, GPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.41 8.42	19.6

Certificate No: EX-3903\_Jul23

Page 19 of 22



# July 19, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> A = 1
10.829	AAD	5G NH (CP-OFDM, 100% R8, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8,40	19.6
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7,63	+9.6
10831	AAD	5G NR (CP-OFDM, 1 RE, 15 MHz, GPSK, 60 kHz)	SG NR FR1 TDD	7.73	+9.6
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, GPSK, 50 kHz)	5G NR FRI TDD	7.74	±8.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	19.6
10834	AAD	6G NR (CP-OPDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.25	+9.6
0895	AAD	50 NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
0836	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	7.66	1.9.6
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9.8
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QP5K, 60 kHz)	5G NR FRI TDD	7.70	19.6
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, OPSK, 60 kHz)	SG NR FR1 TDD	7.67	19.6
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	7.71	19.6
0843	AAD	5G NR (CP-OFDM, 50% RB, 15MHz, QPSK, 60 kHz)	SG NR FR1 TDD	8.49	19.6
10844	AAD:	SG NR (CP-OFDM, 50% R8, 20MHz, CPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.5
0846	AAD	5G NR ICP-OFOM, 50% RB, 30 MHz, QPSK, 60 kHzi	5G NR FR1 TDD	8.41	+9.6
0854	AAD	5G NR (CP-OFOM, 100% RB, 10 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
0855	AAD	5G NR (CP-OFOM, 100% RB, 15 MHz, QPSK, 60 kHz)	SG NR FR1 TDD	8.36	
0856	AAD	50 NR (CP-OFOM, 100% RB, 20 MHz, QPSK, 60 kHz)	SG NR FR1 TDD		±8,6
0857	AAD	5G NR (CP-CFOM, 100% RB, 25 MHz, QP-SH, 50 kHz)	the first in the provide the local data and	8.37	±9/6
0.055	AAD	5G NR (CP-CFCM, 100% RB, 36 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6
0859	AAD	5G NR (CP-CFDM, 100% RB, 40 MHz, QP SK, 60 kHz)	SG NR FR1 TDD	8.36	±9.6
0990	AAD	5G NR (CP-CFDM, 100% RB, 50 MHz, CP-SA, 50 kHz)	SG NR FR1 TDD	8.94	±9.6
0.861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, CPSR, 60 HHz)	5G NR FR1 TDD	8,41	±9.6
0.863	AAD		SG NR FR1 TDD	8.40	±9.6
0.854	AAD	SG.NR (CP-GFDM, 100% RB, 80 MHz, GPSK, 60kHz)	5G NR FR1 TD0	8.41	±9.8
10.865	AAD	50 NR (CP-OFOM, 100% RB, 90 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10.866	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.8
	AAD	5G NR (DFTa-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.66	主見,后
0.968	the second s	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.89	±9.6
0.669	AAE	SG NR (DFTa-OFDM, 1 RB, 100 MHz, QPSK, 120 MHz)	5G NR FR2 TDD	5,75	±9.6
10.870	AAE	5G NR (DFT-e-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	SG NR FR2 TDD	5.86	±9,6
0871	AAE	5G NR (DFT-e-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G-NR-FR2 TDD	5.75	±9,6
10.872	AAE	5G NR (DFT-0-OFDM, 100% R8, 100 MHz, 16GAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
0.873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64GAM, 120 kHz)	56 NR FR2 TD0	6.61	±9.6
0.074	AAE	5G NR (DFT-e-OFDM, 100% RB, 100 MHz, 64DAM, 120 kHz)	BG NR FR2 TDD	6.65	主9,6
10.675	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, GPSK, 120 kHz)	5G NR FR2 TDD	7,78	±9.6
10876	AAE	50 NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8,39	±9.6
8877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 126 kHz)	16 NR FR2 TDD	7.95	±9.6
16878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.8
10879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8,12	±9.6
06601	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64GAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
0881	AAE	SG NR (DFTs-OFDM, 1 R8, S0MHz, QPSK, 120kHz)	50 NR FR2 TDD	5,75	19.6
0882	AAE	5G NR (OFT-s-OFDM, 100% RB, 58 MHz, QPSK, 120 kHz)	50-NR FR2 TDD	5,96	±9.6
0883	AAE	50 NR (DFT-s-OFDM, 1 R8, 50 MHz, 180AM, 120 kHz)	5G NR FR2 TDD	0.57	±5.6
0884	AAE	5G NR (DFT-s-DFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	$\pm 9.6$
0885	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 84QAM, 120 kHz)	5G NR FR2 TDO	6.61	19.6
0885	AVE	5G NR (DFT-I-OFDM, 100% RB, 50 MHz, 54QAM, 120 kHz)	5G NR FR2 TD0	8.65	+9.8
0887	AAE	5G NR (CP-DFDM, 1 R8, 50 MHz, QPSK, 120 kHz)	6G NR FR2 TDD	7.78	±9.6
0858	AAE	50 NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	50 NR FR2 TDD	8.35	B.B±
0889	AAE	5G NR (CP-OFDM, 1 R8, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	+9.6
0.890	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	±9.6
0.891	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	SG NR FR2 TDD	8.13	±9.6
0.892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 54QAM, 120 kHz)	6G NR FR2 TDD	8.41	±9.6
0.897	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, OPSK, 30 kHz)	5G NR FRI TDD	5.66	±9.6
0.898	AAB	5G NR (DFT-e-OFDM, 1 RB, 10 MHz, QP5K, 30 kHz)	5G NR FR1 TDD	5.67	=9.6
0.899	AAB.	SG NR (DFT-4-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	+9.6
0.906	AAB	5G NR (DFT-a-OFDM, 1 RB, 20 MHz, QPSK, 30 HHz)	5G NR FR1 TDD	5.68	±9.6
0.901	AAB	5G NR (DFT-8-OFDM, 1 R0, 25 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	5.68	19.6
2080	AAB	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,68	+9.6
0903	AAB	5G NR (DFT-s-OFDM, 1 RB; 40 MHz; QPSK; 30 MHz)	5G NR FR1 TDD	5.68	19.6
0904	AAB	5G NR (DFT-e-OFOM, 1 RB, 50 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	5,68	19.6
0905	AAB	5G NR (DFT-6-OFDM, 1 RB, 60 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.68	19.6
0.908	AAB	5G NR (DFTs-OFDM, 1 RB, 80 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.68	19.6
0907	AAC	SG NR (CFT-6-OFDM, 50% RB, 5MHz, QPSK, 30 kHz)	5G NR FRI TDD	5.78	
0908	AAB	SG NR (DFT-e-OFDM, 50% RB, 10 MHz, QPSK, 30kHz)	5G NR FR1 TDD	and the second s	±9.6
0909	AAB	SG NR (DFT=-OFDM, 50% RB, 15 MHz, OPSK, 30 kHz)	SG NR FR1 TDD	5,98	19.6
0910	AAB	SG NR (DFTs-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)		5.96	±9.6
	10.00	and the present terms are mented to the arean, authority	5G NR FR1 TDD	5.83	+9.6

Certificate No: EX-3903\_Jul23

Page 20 of 22





July 19, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Uno <sup>tt</sup> k =
0911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.93	±8.0
0912	AAB	50 NR (DFT-II-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
8913	AAB	5G NR (DFT+-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FRI TDD	5.84	±9.6
10914	AAB	5G NR (DFT s-OFDM, 50% R8, 50 MHz, GPSK, 30 kHz)	50 NR FR1 TDD	5.85	+9.5
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.8
0916	AAB	5G NR (DFT-a-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.83	Statements in the local sectors of the local sector
10917	AAB	5G NR (DFT4-OFDM, 50% RB, 100 MHz, QPSK, 30 MHz)		the second se	±9.6
10918	AAC		5G NR FR1 TDD	5.94	±9,6
10919	AAB	5G NR (DFTs-OFDM, 100% RB, 5MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
the second second		5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.88	$\pm 9.6$
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 30kHz)	5G NR FR1 TDD	5,87	=9.6
10927	AAB	5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10.922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	6.82	±8.6
0.923	AAB	5G NR (DFT e-OFDM, 100% R8, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	29,8
10924	AAB	5G NR (DFT4-OFDM, 100% R8, 49 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	0.84	±9.6
10.925	AAB	5G NR (DFT-6-OFDM, 100% RB, 50MHz, QPSK, 38 kHz)	5G NR FR1 TDD	5,95	±9.6
10926	AAB	5G NR (DFT-II-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
18.927	AAB	5G NR (DFT-6-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9,6
10.928	AAG	5G NR (DFTs-OFDM, 1 RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	±9.5
10.058	AAG	5G NR (DFT-a-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5,52	±9.6
10930	AAC	50 NR (DFT-II-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	.≘9.5
10931	AAC.	5G NR (DFT4-OFDM, 1 RE, 20 MHz, OPSK, 15 kHz)	5G NR FR1 FD0	5.51	:9.6
10.832	AAC	5G NR (DFT+-OFDM, 1 RB, 25 MHz, QPSK; 15 kHz)	50 NR FR1 FDD	6.51	±9.6
10833	AAC.	5G NR (DFT-8-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FB1 FDD	5.51	$\pm 9.6$
10934	AAC	5G NR (DFT-6-OFDM, 1 RB, 40 MHz, GPSK, 15 kHz)	5G NR FR1 FDD	5.51	=9.6
10.835	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	+9.5
10.936	AAC	5G NR (DFT-8-OFDM, 50% RB, 5 MHz, GPSK, 15 kHz)	50 NR FR1 FDD	5.90	±9.6
10937	AAC	5G NR (DFTs-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	6.77	±9.6
10938	AAC	5G NR (DFT-s OFDM, 58% RB, 15MHz, GPSK, 15kHz)	5G NR FR1 FDD	0.90	±9.6
10.039	AAC	50 NR (DFT-e-OFDM, 59% RB, 20 MHz, GPSK, 15 kHz)	SG NR FR1 FDD	5.82	±9.6
0940	AAC	5G NR (DFT+-OFDM, 50% RB, 25MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.89	=9.6
10.941	AAC	5G NR (DFT+0-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10942	AAC	5G NR (DFT-e-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	SG NR FR1 FDD	5,65	and the second se
10943	AAD	3G NR (DFTs-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz)		10.00	±8.8
10044	AAC	50 NR (DFT-6-OFDM, 100% RB, 5MHz, GPSK, 15kHz)	SG NR FR1 FDD	5.95	=9.6
10945	AAC	5G NR (DFT-6-OFDM, 100% R8, 10MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10946	AAC	5G NR (DFT=OFDM, 100% RB, 15MHz, QPSK, 15MHz)	5G NR FR1 FDD	5.85	±9.6
10940	AAC	5G NR (DFT-6-OFDM, 100% RB, 20MHz, QPSK, 15 MHz) 5G NR (DFT-6-OFDM, 100% RB, 20MHz, QPSK, 15 KHz)	5G NR FR1 FDD	5.83	±9.6
10948	AAC		50 NR FR1 FDD	6.87	±9.6
		5G NR (DFT-4-OFDM, 100% RB, 25MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5,94	=9.6
10949	AAC	SG NR (DFT-0-OFDM, 100% R8, 30MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.87	≘9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% R8, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 NHz)	5G NR FR1 FDD	5.92	±9,6
10952	AAA.	5G NR OL (CP-OFDM, TM 3.1, SMHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.25	$\pm 9.6$
10.063	AAA	SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-GAM, 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)	50 NR FR1 FDD	8.23	±9.6
18965	AAA.	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 MHz)	5G NR FR1 FDD	8.42	$\pm 0.6$
10056	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	19.6
10967	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
10958	AAA	5G NR OL (CP OFOM, TM 3.1, 15 MHz, 84-QAM, 30 kHz)	5G NR FR1 FDD	8,61	±9.6
10.959	AAA	5G NE DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	53 NR FR1 TDD	9.32	+9.6
10961	AAB	5G NR DL (CP-OFOM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9,36	±9.6
10962	AAB	5G NR DL (CP-OFOM, TM 3.1, 15MHz, 64-QAM, 15RHz)	5G NR FR1 TDD	9.40	19.8
10963	AAB	5G NR DL (CP-OFOM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FRI TDD	9.55	+9.6
10964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30kHz)	5G NR FR1 TDD	9.29	±9.6
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FRI TDD	9.37	
10966	AAB	5G NR DL (CP-CFDM, TM 3.1, 15MHz, 64-QAM, 308Hz)	5G NR FR1 TDD	9.57	±9.5 +9.6
10967	AAB	SG NF DL (CP-OFDM, TM 3.1, 20MHz, 64-GAM, 30NHz)	5G NR FR1 TDD	9.05	
0968	AAB	5G NR DL ICP-OFDM, TM 3.1, 2018Hz, 64-GAM, 3018Hz)			±9.6
10965	AAB	5G NR (CP-OFOM, 18.2) 100 MHz, 64-QAM, 30 KHz) 5G NR (CP-OFOM, 1 RB, 20 MHz, QPSK, 15 KHz)	SG NR FRI TDD	9,49	±9.6
1.000	1.4.9		SG NR FR1 TDD	11.68	±9.5
10973	AAB.	SG NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	+9.8
10974	AAB	5G NR (CP-OFDM, 100% R8, 100 MHz, 255-GAM, 30 kHz)	5G NR FR1 TDD	10,28	- 土9;6
10978	AAA	ULLA BDR	ULLA	1,16	19.6
10979	AAA	ULLA HDR4	ULLA	8,58	±9.6
0980	AAA	ULLA HDRB	ULLA	10.32	±9.6
10981	AAA	ULLA HDRp4	ULLA	3.19	19.5
10982	AAA	ULLA HDRps	ULLA	3.43	±9.6

Certificate No: EX-3903\_Jul23

Page 21 of 22





### July 19, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> R = 2	
10883	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TOD	9.31	+9.6	
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50MHz, 64-QAM, 15kHz)	SG NR FR1 TDD	9.42	+9.6	
10.985	AAA	5G NR DL (OP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FRI TDO	9.54	±9.6	
10986	AAA.	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	SG NR FR1 TDD	8.50	19.6	
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 KHz)	5G NR FR1 TDD	0.63	±0.5	
10.988	AAA.	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 84-QAM, 30 kHz)	5G NR FR: TDD	9.36	+8.6	
10.989	AAA.	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	#9.6	
10,990	AAA.	50 NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 KHz)	5G NR FR1 TDD	9.52	6.63	
11003	AAA	SG NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	:9.6	
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-DAM, 30 KHz)	5G NR FR1 TDD	10.73	19.5	
11005	AAA	5G NR DL (CP-OEDM, TM 3.1, 25 MHz, 64-QAM, 15 KHz)	5G NH FR1 FDD	8.70	+9.5	
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	196	
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 54-GAM, 15 NHz)	50 NR FR1 FD0	8.46	19.6	
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	SG NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NH FR1 FDD	8.76	19.6	
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 KHz)	5G NR FR1 FDD	8.95	19.6	
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 54-QAM, 30 kHz)	53 NR FR1 FDD	8.95	19.6	
11012	AAA	5G NR DL (CP-DEDM, TM 3.1, 50 MHz, 64-GAM, 30 kHz)	5G NR FR1 FDD	8.68	19.6	
11013	AAA	IEEE 802.11be (320 MHz, MCS1, 99bc duty cycle)	WLAN	8.47	10.0	
11014	AAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	19.6	
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	19.6	
11016	AAA	IEEE 802.11be (320 MHz, MC54, 99pc duty cycle)	WLAN	8.44	+0.6	
11017	AAA	IEEE 802.11be (320 MHz, MCSS, 99pc duty cycle)	WLAN	8.41	19.6	
11018	AAA	IEEE 802.11be (320 MHz, MC56, 99pc duty cycle)	WLAN	8.40	+9.8	
11019	AAA	IEEE 802.11be (320 MHz, MOS7, 99pc duty cycle)	WLAN	8.29	10.6	
11020	AAA	IEEE 802,11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	+9.6	
11021	AAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±0.6	
11022	AAA	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	+9.6	
11023	AAA	IEIEE 802,11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6	
11024	AAA	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.5	
11025	AAA	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.17	+9.6	
11028	AAA	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	+9.6	

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

Certificate No: EX-3903\_Jut23

Page 22 of 22



child & Partner ngineering AG		Nac-MRA	C C	ichweizerlscher Kalibrierdiens iervice suisse d'étalonnage iervizio svizzero di taratura swiss Calibration Service
eughausstrasse 43, 8004 Zuri coredited by the Swiss Accre he Swiss Accreditation Ser- luitilateral Agreement for th	ditation Service (SAS) vice is one of the signator		Accre	ditation No.: SCS 0108
llent HCT Gysonggi-do, Re		Certifica	te No. ES	-3076_Jul23
CALIBRATION C	ERTIFICATE		9 82	
Object	ES3DV3 - SN:30	076		
Calibration procedure(s)		QA CAL-12.v10, QA edure for dosimetric E-		A CAL-25.v8
Calibration date	July 18, 2023			
	nducted in the closed labor	e probability are given on the atory facility: environment tem 1)		
Primary Standards	ID	Cal Date (Certificate No	23	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-036	804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244 SN: 1249	30-Mar-23 (No. 217-038 20-Oct-22 (OCP-DAK3)		Mar-24 Oct-23
OCP DAK-3.5 (weighted) OCP DAK-12	SN: 1016	20-Oct-22 (OCF-DAK12		Oct-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	30-Mar-23 (No. 217-038		Mar-24
DAE4	SN: 660	16-Mar-23 (No. DAE4-6		Mar-24
Reference Probe ES30V2	SN: 3013	06-Jan-23 (No. ES3-30)	13_Jan23)	Jan-24
Secondary Standards	ID	Check Date (in house)		Scheduled Check
Power meter E44198	SN: GB41293874	06-Apr-16 (in house che	eck Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-18 (in house che	eck Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	08-Apr-16 (in house che		In house check: Jun-24
RF generator HP 8648C Network Anslyzer E8356A	SN: US3642U01700 SN: US41060477	04-Aug-99 (in house chi 31-Mar-14 (in house chi		In house check: Jun-24 In house check: Oct-24
	Name	Function		Signature
Calibrated by	Jeffrey Katzman	Laboratory Tech	nician	AL
			C	1.7
Approved by	Sven Kühn	Technical Manag	ger C	5.22
This calibration certificate sh	all not be reproduced excep	at in full without written approv		lssued: July 18, 2023 y.
		Г	결 탄 ·	지식 파/기 자
			70	H M
Certificate No: ES-3076 Ju	123	Page 1 of 21	- U	11120h 1112
			TRUE DL	山口湾 (丁) 制造
		1	1 4 2013	08,23 2023 / 08,2

The report shall not be (partly) reproduced except in full without approval of the laboratory.



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



S Sch C Ser S Switch

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 NORMx,y,z ConvF DCP	tissue simulating liquid sensitivity in free space sensitivity in TSL / NORMx,y,z diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization w	w rotation around probe axis
Polarization 0	the order of the order
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-ceil; f > 1800MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(I)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- · PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C, D are numerical linearization parameters assessed based on the data of
  power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum
  calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY4 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).

Certificate No: ES-3076\_Jul23

Page 2 of 21



#### ES3DV3 - SN:3076

### July 18, 2023

### Parameters of Probe: ES3DV3 - SN:3076

#### **Basic Calibration Parameters**

D 82.77	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm (µV/(V/m) <sup>2</sup> ) A	1.21	1.24	1.18	±10.1%
DCP (mV) B	106.0	105.0	104.0	±4.7%

### **Calibration Results for Modulation Response**

UID	Communication System Name		A dB	B dBõV	c	D dB	WR mV	Max dev.	Max Unc <sup>E</sup> k = 2
0	CW	X	0.00	0.00	1.00	0.00	209.5	±3.0%	±4.7%
			0.00	0.00	1.00		208.5		
		Z	0.00	0.00	1.00		199.2		
10352	Pulse Waveform (200Hz, 10%)	X	12.55	85.70	23.45	10.00	60.0	±1.8%	±9.6%
	AL	Y	12.36	85.52	23.29		60.0		
		Z	14.22	87.77	23.67	-	60.0		
10353	Pulse Waveform (200Hz, 20%)	X	20.00	94.07	24.61	6.99	80.0	±2.5%	±9.6%
		Y	20.00	94.11	24.55		80.0	1	
		Z	20.00	93.40	23.84		80.0	1	
10354	Pulse Waveform (200Hz, 40%)	X	20.00	95.82	23.46	3.98	95.0	±3.7%	±9.6%
02220	Charles of the second second second second	Y	20.00	96.10	23.57	0.00	95.0	1.000001	
		Z	20.00	94.83	22.58	1	95.0	1	
10355	Pulse Waveform (200Hz, 60%)	X	20.00	99.55	23.57	2.22	120.0	±3.9%	+9.69
		Y	20.00	100.53	24.06		120.0	Contraction of the	
		Z	20.00	97.63	22.25		120.0	1	
10387	QPSK Waveform, 1 MHz	X	1.96	67.22	16.17	1.00	150.0	±2.5%	±9.6%
		Y	2.02	68.40	16.83		150.0		
		Z	1.76	66.00	15.20		150.0		
10388	QPSK Waveform, 10 MHz	X	2.71	70.78	17.03	0.00	150.0	±1.0%	±9.6%
	AND SHOLD AND AND AND AND AND AND AND AND AND AN	Y	2.87	72.05	17.80		150.0	1.155(2)(2)	
		Z	2.37	68.73	15.94	I	150.0	1	
10396	64-QAM Waveform, 100 kHz	X	4.51	75.83	21.27	3.01	150.0	±0.6%	±9.6%
	SPECIAL MANAGERS CONTRACTOR	Y	4.70	77.67	22.25	1909-0	150.0	2008.68	
		Z	3.75	72.58	19.73		150.0	1	
10399	54-QAM Waveform, 40 MHz	X	3.67	67.81	16.18	0.00	150.0	±1.8%	±9.6%
	NGCINARCH INTERNATION OF SAUDICITY.	Y	3.74	68.30	16.53	10000	150.0	100000	1000000
		Z	3.60	67.47	15.91		150.0	and and	
10414	WLAN CCDF, 64-QAM, 40 MHz	X	5.05	65.79	15.64	0.00	150.0	±3.8%	±9.6%
	CONTRACTOR OF A	Y	5.07	66.04	15.84		150.0	10000	1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
		Z	5.02	65.86	15.63	1	150.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage 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 effect the E<sup>2</sup>-field uncertainty inside TSL (see Page 5).
<sup>B</sup> Lincertainty is determined using the maximum specified field strength.
<sup>E</sup> Lincertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Certificate No: ES-3076\_Jul23

Page 3 of 21



### ES3DV3 - SN:3076

### July 18, 2023

# Parameters of Probe: ES3DV3 - SN:3076

### Sensor Model Parameters

	C1 IF	C2 fF	ν <sup>α</sup> V <sup>-1</sup>	T1 msV <sup>-2</sup>	T2 msV <sup>-1</sup>	T3 ms	T4 V <sup>-2</sup>	T5 V <sup>-1</sup>	T6
×	69.3	493.88	35.07	29.81	3.34	5.10	0.66	0.66	1.01
y.	63.3	451.09	35.12	29.79	3.18	5.10	1.05	0.51	1.01
z	60.7	436.50	35.52	29.40	2.83	5,10	0.34	0.69	1.01

### Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	145.0°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Dlameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

Certificate No: ES-3076\_Jul23

Page 4 of 21



#### ES3DV3 - SN:3076

#### July 18, 2023

# Parameters of Probe: ES3DV3 - SN:3076

### Calibration Parameter Determined In Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
6	55.0	0.75	5.33	5.33	5.33	0.00	1.00	±13.3%
13	55.0	0.75	5.80	5.80	5,80	0.00	1.00	±13.3%
750	41.9	0.89	6.37	6.37	6.37	0.40	1.64	±12.0%
835	41.5	0.90	6.11	6.11	6.11	0.62	1.28	±12.0%
900	41.5	0.97	5.98	5.98	5.98	0.66	1.25	±12.0%
1450	40.5	1.20	5.53	5.53	5.53	0.34	1.71	±12.0%
1750	40.1	1.37	5.35	5.35	5.35	0.74	1,11	±12.0%
1900	40.0	1.40	5.05	5.05	5.05	0.80	1.13	±12.0%
2300	39.5	1.67	5.00	5.00	5.00	0.53	1.47	±12.0%
2450	39.2	1.80	4.81	4.81	4.81	0.73	1.31	±12.0%
2600	39.0	1.96	4.59	4.59	4.59	0.80	1.27	±12.0%

<sup>C</sup> Frequency validity above S00 MHz of ±100 MHz only applies for DASY W4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration bequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessments at 44.4 MHz, and ConvF assessed at 50 MHz is 4–10 MHz. The uncertainty to the indicated to ±10 MHz.
<sup>T</sup> The probes are calibrated using tissue simulating tiguids (TSL) that deviate for *x* and *x* by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10%. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1% for 3 - 8 GHz.

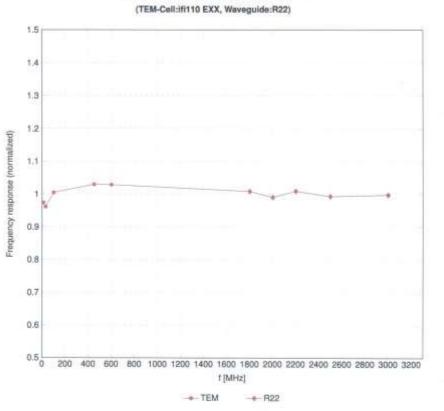
<sup>0</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Certificate No: ES-3076\_Jul23

Page 5 of 21



July 18, 2023



# Frequency Response of E-Field

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

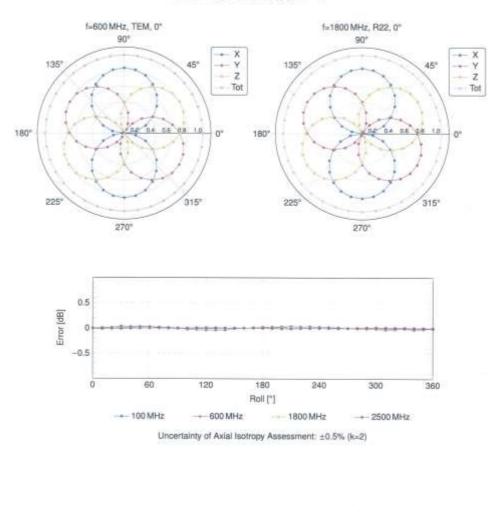
Certificate No: ES-3076\_Jul23

Page 6 of 21

July 18, 2023



ES3DV3 - SN:3076



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

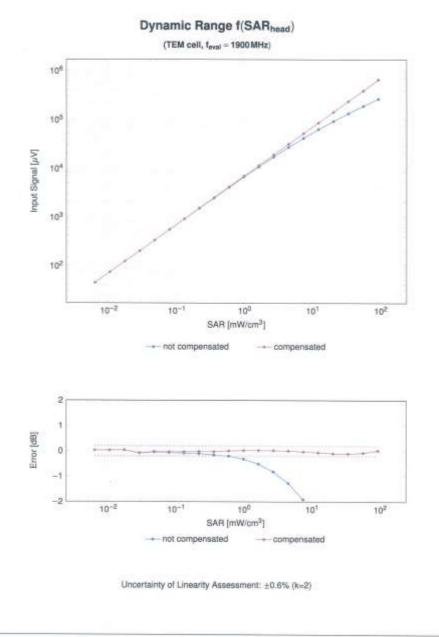
Certificate No: ES-3076\_Jul23

Page 7 of 21

The report shall not be (partly) reproduced except in full without approval of the laboratory.



July 18, 2023



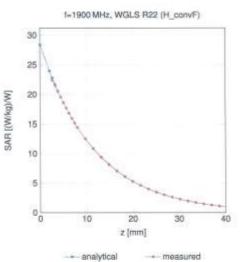
Certificate No: ES-3076\_Jul23

Page 8 of 21

The report shall not be (partly) reproduced except in full without approval of the laboratory.



July 18, 2023

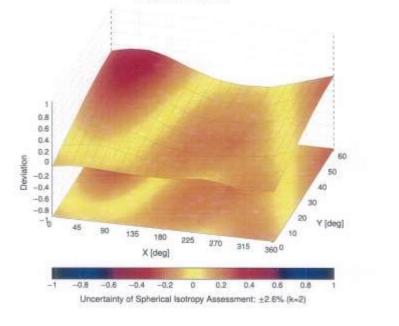


**Conversion Factor Assessment** 

and the second second

Deviation from Isotropy in Liquid

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



Certificate No: ES-3076\_Jul23

Page 9 of 21



# July 18, 2023

# Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Ung <sup>E</sup> k =
U		CW	CW	0.00	14.7
00010	CAB	SAR Validation (Square, 100ms, 10ms)	Test	10.00	19.6
0011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
0012	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.97	±9.6
0013	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	19.6
0021	DAC	GSM-FDD (TDMA, GMSK)	GSM	8.39	19.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
0024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	19.6
0.025	DAC	EDGE-FOD (TDMA, BPSK, TN 0)	GSM	12.62	29.6
	DAC		GSM	9.55	20.0
10026		EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	4.80	29.6
10:027	DAG	GPRS-FDD (TDMA, GMSK, TN 0-1-2)			
10.028	DAG	GPR8-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	2.55	±9.6
10029	DAG	EDGE-FDD (TOMA, BPSK, TN 0-1-2)	GSM	7,78	±9.0
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10031	CAA	IEEE 802.15.1 Bluelooth (GFSK, DH3)	Elustooth	1.87	±9.8
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Stuetooth	1,16	±9.6
10.033	CAA	IEEE 802.15.1 Bluetooth (PW4-DQPSK, DH1)	Bluetoath	7,74	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	主导 6
10035	CAA	IEEE 802.15.1 Bluelooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	:9.6
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetcoth	4.10	±9.6
10039	CAB	CDMA2000 (1±RTT, RC1)	CDM42000	4.57	±9.6
10042	CAB	IS-54 / IS-138 FDD (TDMA/FDM, PI/4-DQPSK, Halhata)	AMPS	7.78	19.6
10044	CAA	IS-91/EIA/TIA-553 FOD (FDMA, FM)	AMPS	0.00	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Stat, 24)	DECT	13.80	19.6
	CAA	DECT (TDD, TDMA/FDM, GFSK, Pull Sut, 24)	DECT	10.79	
10049			the local data and the second s	the second se	59.8
10056	CAA	UMTS-TOD (TD-SCOMA, 1.28 Mops)	TD-SCDMA	11.01	19.6
10.058	DAC	EDGE-FOD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6,52	±9.6
10050	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	19.6
10060	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2,83	19.6
10081	CAB	IEEE 002.11b WIFI 2.4 GHz (DSSS, 11 Mops)	WLAN	3.60	±9.6
10,062	CAD	IEEE 802.11 wh WIFI 5 GHz (CFOM, 6 Mbps)	WLAN	8.68	29.6
10063	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mops)	WLAN	8.63	19.6
10054	CAD	IEIEE 802.11 wh WIFI 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.5
10065	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAD	IEEE 802.11 wh WIFI 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAD	IEEE 802 11µ/h WIFI 5 GHz (OFDM, 36 Mbos)	WLAN	10.12	3.9.6
10058	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbos)	WLAN	10.24	19.5
10.089	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WFI 2.4 GHz (DSSS/OFDM, 9Mbps)	WLAN	9.83	±8.6
10072	CAB	IEEE 802.11g WFI 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	19.6
10073	CAB		WLAN	9.94	
10073	CAB	IEEE 802.11g WFI 2.4 GHz (DSSS/OFDM, 18 Mbps)		the second s	±9.6
100 000 000	in the second	IEEE 802.11g WFI 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	19.6
10075	CAB	IEEE 802.11g WFI 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10:076	CAB	IEEE 802.11g WFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.8
10077	CAB	IEEE 802.11g WFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.8
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9,6
10082	CAB	IS-54 / IS-136 FDD (TOMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090	DAG	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.58	±9.8
10097	CAC	UMT5-FDD (HSOPA)	WCDMA	3.98	±9.6
10098	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.96	±9.0
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20MHz, QPSK)	LTE-FOD	5.67	±8.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20MHz, 18-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FOD (SC-FOMA, 100% RB, 20MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% R8, 20MHz, QPSK)	LTE-TDD	9.29	19.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TOD	9.29	19.6
10105	CAH	LTE-TOD (SC-FDMA, 100% R8, 20 MHz, 64-QAM)	LTE-TOD	10.01	±9,6 ±9,6
	CAH				
10108		LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10110	CAH	LTE-FDD (SC-FDMA, 100% R8, 5MHz, QPSK)	LTE-F00	5.75	±9.6
10111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-POD	6,44	±B.6

Certificate No: ES-3076\_Jul23

Page 10 of 21





# July 18, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k =
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
0113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
0114	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	B 10	±9.6
0115	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.40	±9.6
0116	CAD	IEEE 802.11n (HT Greenfeld, 135Mbps, 84-QAM)	WLAN	8.15	+9.6
0117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
0118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	19.6
0119	CAD	IEEE 802 11n (HT Mixed, 135 Mixes, 64-QAM)	WLAN	8.13	+9.6
0140	CAF	LTE-FOD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
0141	CAF	LTE-FOD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	19.6
0142	CAF	LTE-FOD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	19.6
0143	CAF	LTE-FOD (SC-FOMA, 100% RB, 3 MHz, 16-QAM)	LTE-FOD	6.35	±9.6
0144	CAF	LTE-FOD (SC-FOMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
0145	CAG	LTE-FOD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.78	19.6
0148	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	19.6
0140	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 19-QAM)			
0149	CAF		LTE-FDD	6.72	:9.6
0150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 18-QAM)	LTE-FDD	6,42	±9.6
		LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
0151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20MHz, QP5K)	LTE-TOD	9.28	19.6
0152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 18-QAM)	LTE-TDD	9.82	19.6
10153	CAH	LTE-TDD (SC-FDMA, 50% R8, 20 MHz, 84-QAM)	LTE-TDO	10.05	±9.6
0154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDO	5.75	±9.6
0155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16 QAM)	LTE-FOD	6.43	19.8
10156	CAH	LTE-FDD (SC-FDMA, 50% R8, 5 MHz, QPSK)	LTE-FOO	5.79	19.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)	LTE-FDO	6.48	±9,5
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDO	6.62	±9.6
10169	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FOD	6.58	29.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FOD	6.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, S0% RB, 15MHz, 16-QAM)	LTE-FOD	6.43	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)	LTE-FOD	6.58	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
10167	CAB	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FOD	5.73	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FOD	6.52	±9.6
10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FOD	6.49	±9.6
10172	CAH	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TOD	9.21	±8.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TOD	9.48	±9.6
10174	CAH	LTE-TDD (SC-FDMA, 1 RB; 20 MHz; 64-QAM)	LTE-TOO	10.25	19.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	6.72	±9.6
10176	CAH	LTE-FOD (SC-FDMA, T RB, 10 MHz, 16-QAM)	LTE-FOD	6.62	±8.6
10177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FOD	5.73	±9.6
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-FOO	6.52	+9.6
10176	CAH	LTE FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FOD	6.50	±9.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-FOD	5.72	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-FOD	6.62	19.8
10180	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-F00	6.50	19.6
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDO	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FOD	6.51	29.8
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-GAM)	LTE-FOD	6.50	19.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FOD	6.73	:9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 18-QAM)	LTE-FDD	6.52	39.6
10189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	19.6
10.193	CAD	IEEE 802.11n (HT Greenfield, 6.5 Mtps, BPSK)	WLAN	8.09	19.6
10194	CAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	:9.6
10195	CAD	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	19.6
10 196	CAD	IEEE 802.11n (HT Mord, 6.5 Mbps, BPSK)	WLAN	8.10	19.6
10197	CAD	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	18.0
10198	CAD	IEEE 802 110 (HT Mixed, 85 Mbps, 64-QAM)	WLAN		and the second se
10218	CAD	IEEE 802.11n (HT Mode, 05 webps, 64-GAW)	WLAN	8.03	±9.6
10220	CAD	IEEE 602.11n (HT Mode, 7.2 Mola, BPSN) IEEE 602.11n (HT Mode, 43.3 Mbps, 16-QAM)			±9.8
10221	CAD	IEEE 802.11n (HT Moled, 43.3 Mbps, 16-GAM) IEEE 802.11n (HT Moled, 72.2 Mbps, 64-GAM)	WLAN	8.13	19.6
10222	CAD	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
	CAD		WLAN	8.06	±9.6
10223		IEEE 802.11n (HT Mixed, 90 Mbps, 16-DAM)	WLAN	8.48	±9.6
	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	19.6

Certificate No: ES-3076\_Jul23

Page 11 of 21





# July 18, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>#</sup> k =
0.225	CAC	UMTS-FDD (HSPA+)	WCDMA	6.97	3.6±
0.226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TOD	9.48	±8.6
0.227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TOD	10.26	±9.6
855.0	CAC	LTE-TDD (SC-FDMA, 1 RE, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6
0.229	CAE	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TOD	9.48	+9.6
0.230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TOD	10.25	19.8
0.231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TOD	9.19	+9.6
0232	CAH	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, 16-GAM)	LTE-TOD	9.48	±9.6
0.233	CAH	LTE-TOD (SC-FOMA, 1 RB, 5 MHz, 64-GAM)	LTE-TOD		
0.234	CAH			10,25	±9.6
		LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TOD	9.21	±9.6
0.235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TOO	9.48	±9.6
0.236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TOD	10.25	±9.6
0.237	CAH	LTE-TOD (SC-FDMA, 1 RB, 10 MRz, QPSK)	LTE-TDD	9.21	±9.8
10.238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	11月1日
0.239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TOD	10.25	±9.8
0.240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TOD	9.21	±9.8
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9,6
10.242	CAC	LTE-TDO (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
0243	CAC	LTE-TOD (SC-FOMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6
10244	CAE	LTE-TOD (SC-FOMA, 50% RB, 3MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE TOD (SC FOMA, 50% RB. 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10246	CAE	LTE-TOD (SC-FOMA, 50% RB, 3 MHz, OPSK)	LTE-TDD	9.30	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.30	19.0
10248	CAH	LTE-TOD (SC-FOMA, 50% RB, 5MHz, 64-QAM)	LTE-TOD	10.06	±0.6
10249	CAH	LTE-TOD (SC-FDMA, 50% RB, 5 MHz, OPSK)	LTE-TDD	9.29	10.0
10250	CAH	LTE-TOD (SC-FOMA, 50% RB, 10 MHz, GFOK)	LTE-TDD	212171	
	CAH		and the second second	9,81	±9,8
10251		LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 84-QAM)	LTE-TDD	10.17	±9.6
10252	CAH	LTE-TCO (SC-FDMA, 50% RB, 10 MHz, OPSK)	LTE-TDD	9.24	±9.6
10253	GAG	LTE-TOD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TOD	9.90	±9.6
10254	CAG	LTE-TOD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255	GAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, OPSK)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 15-QAM)	LTE-TDD	9,96	±9.6
10257	CAC	LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.8
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TOO	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 18-QAM)	LTE-TDD	9.98	±9.6
10260	CAE	LTE-TOD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	19.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TOD	9.24	±9.6
10282	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 18-QAM)	LTE-TDD	9.83	19.6
10263	CAH	LTE-TOD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TOD	10.16	±9.6
10264	CAH	LTE-TOD (SC-FDMA, 100% RB, 5MHz, OPSK)	LTE-TOD	9.23	19.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10266	CAH	LTE-TOD (SC-FOMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	19.0
10267	GAH	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TOD	9.30	19.6
10268	CAG	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, 16 GAM)	LTE-TDD		1000
10269	CAG	LTE-TOD (SC-FOMA, 100% RB, 15 MHz, 64-QAM)		10.06	±9.6
			LTE-TDD	10.19	±9.6
10270	CAG	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	19.6
10274	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rol8 10)	WCDMA	4.87	±9.6
10275	CAC	UMTS-FDD (HSUPA, Suttest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
10277	CAA	PHS (QPSK)	PHS	11.81	19.6
10278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
10279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
10290	AAB	CDMA2000, RC1, SQ55, Full Rate	CDMA2000	3.91	±9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10585	AAB	COMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.8
10295	BAA	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.40	±9.6
10297	AAE	LTE-FOD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	+9.8
10298	AAE	LTE-FOD (SC-FDMA, 50% RB, 3MHz, QPSK)	LTE-FDD	5.72	+6.8
10299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	+9.6
10300	AAE	LTE FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	
10301	AAA	IEEE 802.15e WMAX (29:18, 5ms, 10 MHz, QPSK, PUSC)	and the second sec	the second se	±9.6
10301	AAA	IEEE 802 16e WMAX (2918, 5ms, 10 MHz, QPSK, PUSC) IEEE 802 16e WMAX (2918, 5ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.03	±9.8
	and the second second		WIMAX	12.57	±9.8
10303	AAA	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WIMAX	12.52	±9,6
10304	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WIMAX	11.86	<b>注9.6</b>
10305	AAA	IEEE 802.16e WIMAX (31.15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WIMAX	15.24	±9.6
10305	AAA	IEEE 802,16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WIMAX	14.67	±9.6

Certificate No: ES-3076\_Jul23

Page 12 of 21

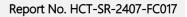


# July 18, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k=2
10307	AAA	IEEE 802.15e WMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	±9.6
10308	AAA	IEEE 802.16e WMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WIMAX	14.46	19.6
10309	AAA	IEEE 802.16e WMAX (29:18, 10 ms, 10 MHz, 18QAM, AMC 2x3, 18 symbols)	WIMAX	14.58	19.6
10310	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WIMAX	14.57	±9.6
10311	AAE	LTE FOD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6
10313	AAA	IDEN 1:3	IDEN	10.51	±9.6
10314	AAA	IDEN 1.6	IDEN .	13,48	:9.6
10315	AAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10316	AAS	IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.96	±9.6
10317	AAD	IEEE 802.11a WIFI 5 GHz (OFOM, 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	19.6
10364	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	19.6
10356	AAA	Puise Waveform (200Hz, 80%)	Generic	0.97	:19.5
10387	AAA	QPSK Waveform, 1 MHz	Generic	6.10	±9.6
10388	AAA	QPSK Waveform, 10 MRz	Generic	5.22	±9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
10399	AAA	64-QAM Wavelorm, 40 MHz	Genario	6.27	±9.6
10400	AAE	IEEE 802.11ac WFI (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
10401	AAE	IEEE 802.11ac WFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10.402	AAE	IEEE 802.11ac WFI (80 MHz, 54-QAM, 99pc duty cycle)	WLAN	8.53	±9.8
10.403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	COMA2000	3.76	19.8
10404	AAB	CDMA2000 (1xEV-DO: Rev. A)	CDMA2000	3.77	+9.5
10.406	AAB	CDMA2000, RC3, SC32, SCH0, Full Rate	COMA2000	5.22	±9.6
10410	AAH	LTE-TOD (SC-FOMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, 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 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WFI 2.4 GHz (ERP-OFOM, 6 Mbps, 99pc duty cycle)	WLAN	8.73	±9.6
10417	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	+9.6
10.419	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WEAN.	8,19	±9.6
10422	AAC	IEEE 802,11n (HT Greenfield, 7,2Mbps, BPSK)	WLAN	8.32	±9.6
10423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	+9.6
10.424	AAC	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8,40	±9.6
10425	AAC	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WEAN	8.41	±9.6
10.426	AAC	IEEE 802.11n (HT Greenfield, 90 Mops, 16-QAM)	WLAN	8.45	±9.6
10.427	AAC	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6
10430	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
10432	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10433	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FOD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10435	AAG	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7,56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FOD	7,53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FOD	7,51	±9.6
10450	AAD	LTE-PDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	土炭坊
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
10456	AAC	IEEE 802.11ac WIFI (160 MHz, 64 QAM, 96pc duty cycle)	WLAN	8.63	±9.6
10457	AAB	UMTS-FDD (DC-HSDPA)	WCOMA	6.62	±9.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. 8, 2 carriers)	CDMA2000	8.55	主9.6
10459	AAA	CDMA2000 (1xEV-DD, Rev. B, 3 certiers)	CDMA2000	8.25	±9.6
10460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA	2,39	±9.6
10461	AAC	LTE-TOD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UI, Subframe-2,3,4,7,8,9)	LTE-TOD	8.30	±9.6
10463	AAC	LTE-TOD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframei/2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10464	AAD	LTE-TOD (SC-FDMA, 1 RB, 3MHz, QPSK, UL Subtrame+2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
10465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10466	AAD	LTE-TOD (SC-FDMA, 1 RB, 3MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10467	AAG	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±8.6
10468	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10469	AAG	LTE-TOD (SC-FDMA, 1 RB, 5MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10.470	AAG	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, OPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	7.82	:±9.6
10471	AAG	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TDD	8.32	±0.6

Certificate No: ES-3076\_Jul23

Page 13 of 21



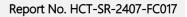


## July 18, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k =
0472	AAG	LTE-TDD (SC-FDMA, 1 R8, 10 MHz, 64-QAM, UL Subframe+2,3,4,7,8,9)	LTE-TDD	0.57	±9.6
0473	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDO	7.82	±9.6
10474	AAF	LTE-TOD (SC-FDMA, 1 HB, 15MHz, 16-DAM, UL Subframe=2,3,4,7,8,9)	LTE-TD0	8.32	±9.6
0475	AAF	LTE-TDD (SC-FDMA, 1 769, 15 MHz, 64-QAM, UL Subframe+2.3,4,7,8,9)	LTE-TOD	8.57	19.6
0477	AAG	LTE-TDD (SC-FDMA, 1 FB, 20 MHz, 16-QAM, UL Subframe+2.3,4,7,8,9)	LTE-TDD	8.32	±9.6
0478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TOD	8.57	19.6
0479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframew2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
0480	AAC	LTE-TDD (SC-FDMA, 50% R8, 1.4 MHz, 15-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8,18	±9.0
0481	AAG	LTE-TOD (SC-FDMA, 50% RB. 1.4 MHz, 64-QAM, UL Subframe-2.3.4.7.8.9)	LTE-TDD	8.45	19.6
10482	AAO	LTE-TOD (SC-FDMA, 50% RB, 3MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	2.71	19.6
0483	AAD	LTE-TOD (SC-FDMA, 50% RB, 3MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TDD	8.39	19.6
0484	AAD	LTE-TOD (SC-FDMA, 50% RB, 3MHz, 64 QAM, UL Subframe=2.3.4,7.8.9)	LTE-TDD	8.47	
0.485	AAG	LTE-TDD (SC-FDMA, 50% RB, 5MHz, QPSK, UL Subframe-2,3,4,7,8,9)	LTE-TDD	7.59	19.6
0488	AAG	LTE-TOD (SC-FDMA, 50% RB, 5MHz, 16-QAM, UL, Subframe=23,4,7,8,9)	2 1 1 1 2 - 3 2 3		±9.6
0487	AAG	LTE-TOD (SC-FDMA, 50% RB, 5MHz, 64-QAM, UL, Subframe-2.3,4,7,8,9)	LTE-TDD	8.38	±9.6
0488	AAG		LTE-TOD	8.60	±9.8
and the second		LTE-TDO (SC-FDMA, 50% RB, 10 MHz, GPSK, UL Subtrame=2,9,4,7,8,9)	LTE-TDD	7.70	±9.8
0489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 15-DAM, UL Subframe=2.3,4,7,8.9)	LTE-TDD	8.31	±9.6
0.490	AAG	LTE TOD (SC-FDMA, 50% RB, 10 MHz, 64-GAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
0491	AAF	LTE-TOD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subhame=2,3,4,7,8,9)	LTE-TOD	7.74	±9.6
0492	AAF	LTE-TDD (SC-FOMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TDD	8,41	±9.6
0483	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8;9)	LTE-TDD	8.55	±9.6
0494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subhame=2,3,4,7,8,9)	LTE-TDD	7.74	±9.8
0495	AAG	LTE-TOD (SC-FDMA, 60% RB, 20 MHz, 15-GAM, UL Subhame+2,3,4,7,8,9)	LTE-TOD	8.37	±9.8
0496	AAG	LTE-TOD (SC-FDMA, 50% AB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	19.6
0.497	AAC	LTE-TOD (SC-FOMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
0498	AAC	LTE-TOD (SC-FOMA, 100% RB, 1.4 MHz, 16-QAM, UL Subleme=2,2,4,7,8,9)	LTE-TDD	8.40	+9.6
0499	AAC	LTE-TDD (SC-FOMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
0,500	AAD.	LTE-TOD (SC-FOMA, 100% RB, 3 MHz, OPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	19.6
0501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	8.44	19.6
0.502	AAD	LTE-TOD (SC-FOMA, 100% RB, 3 MHz, 84-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	8.52	±9.6
0503	AAG	LTE-TOD (SC-FOMA, 100% RB, 5MHz, QPSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD	7.72	±9.6
0504	AAG	LTE-TOD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	8.31	19.6
0.505	AAG.	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	18.6
0.508	AAG	LTE-TOD (SC-FDMA, 100% RB, 10MHz, QPSK, UL Subiname=2,3,4,7,8,9)	LTE-TDD	7.74	18.5
0.507	AAG	LTE-TDD (SC-FDMA, 100% R8, 10 MHz, 16-QAM, UL Sublyame=2,3,4,7,8,9)	UTE-TDD	8.36	±9.6
0.508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM, UL Subframe=2,3,4,7,8.9)	LTE-TDD	8.55	±9.6 ±9.6
0.509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	
0510	AAF	LTE-TDD (SC-FDMA, 100% FB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	19,6
0511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM, UL Subtrama=2.3,4,7,8,9)	LTE-TDD		±9,8
0512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	and the second sec	8.51	±9.6
0513	AAG	LTE-TDD (SC-FDMA, 100% R8, 20 MHz, 16-QAM, UL Subframe-2.3,4,7,8,9)	LTE-TOD	7,74	±9.6
0514	AAG	LTE-TDD (SC-FDMA, 100% RB, 2014Hz, 14-GAM, UL Subframe-2,3,4,7,8,9)	LTE-TOD	8.42	±9.6
0515	AAA	LEEE BOO 415 WIELD 4 DOW HD. 2010H2, 64 GAM, GL. SUDITAMINEZ, 3, 6, 7, 8, 9	LTE-TDD	8,45	±9.6
0518	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mope, 99pc duty cycle)	WLAN	1.58	19.6
0517	AAA	IEEE 802 11b WIF 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	19.6
0518	AAC	IEEE 802.11b WIFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1,58	±9.6
0518	AAC	IEEE 802 11a/h WFI 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
and the Actual	1.4.446	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 09pc duty cycle)	WLAN	8.39	±9.6
0520	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
0521	AAC	IEEE 802.11a/h WFI 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	19.6
0522	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mops, 99pc duty cycle)	WLAN	8.45	±9:6
0.523	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.8
0524	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6
0525	ANC	IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.36	±9.8
0.526	AAC	IEEE 802.11ac WIFI (20 MHz, MCS1, 99pc duty cycle)	WLAN.	8.42	±9.6
0.527	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
0528	AAC	IEEE 802.11ac WIFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6
0.529	AAC	IEEE 802:11ac WIFI (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.30	±9.6
0.531	AAC	IEEE 802.11ac WIFI (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.43	±9.6
0.532	AAC	IEEE 802.11ac WIFi (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
0.533	AAC	IEEE 802.11ac WIFI (20 MHz, MCS8, 99pc duty cycle)	WLAN	6.38	19.6
0534	AAC	IEEE 802 11 ac WIFI (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	
0.635	AAC	IEEE 802.11ac W/Fi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6
0638	AAC	IEEE 802.11ac WFI (40 MHz, MCS2, 99pc duty cycle)	WLAN	and the second se	±9.6
0.537	AAC	IEEE 902.11ac WIFI (40 MHz, MCS3, 99pc duty cycle)		8.32	±9.6
0538	AAC	IEEE 802.11ac WFI (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
0548	AAC	IEEE 802.11ac WFI (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.54	±9.6
+ UPPLI	herer.	ministerio and anna second and anna and and and and and and and	WLAN	8.39	±9.6

Certificate No: ES-3076\_Jul23

Page 14 of 21



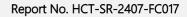


## July 18, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>B</sup> k = 2
10541	AAC	IEEE 802.11ac WIFI (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.45	29.6
0542	AAC	IEEE 802.11ac WFI (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	:9.6
0543	AAC	IEEE 802.11ac WIFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
0544	AAC	IEEE 802.11ac WIFI (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	19.6
0.548	AAC	IEEE 802 11ac WIFI (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
0.546	AAC	IEEE 802.11ec W/Fi (80 MHz, MCS2, 99pc duty cycle)	WLAN	6.35	±9.5
0547	AAC	IEEE 802 11ac WFT (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.48	±9.0
10548	AAC	IEEE 802 11ac WIFI (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	10.0
10.550	AAC	IEEE 802,11ac WPI (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	10.6
10551	AAC	IEEE 802 11ac WFI (80 MHz, MCS8, 99c duty cycle)	WLAN	8.50	10.6
10552	AAC	IEEE 802.11ac WFF (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.8
10553	AAG	IEEE 802 11ac WIF1 (80 MHz, MC59, 99pc duty cycle)	WLAN	8.45	19.6
10554	AAD		WEAN	8.49	
		IEEE 802.11ac WiF) (160 MHz, MCS0, 99pc duty cycle)	the function of the second sec		19.6
10555	AAD	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
10556	AAD.	IEEE 802.11ac WIFI (160 MHz, MCS2, 99pc duty cycle)	WLAN	B.50	±9.6
10557	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.0
10558	AAD	IEEE 802.11ac WIFI (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.61	29.8
10560	AAD	IEEE 802.11ac WIFI (160 MHz, MCS6, 89pc duty cycle)	WLAN	8.73	19.6
10561	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.5G	±9,6
10562	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9,8
10563	AAD	IEEE 802.11ac WIFI (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	19.6
10664	AAA	IEEE 802.11g WFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10585	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps; 99pc duty cycle)	WLAN	8.45	土母,母
10566	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10557	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	19.6
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10570	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-QFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	IEEE 802.11b WIR 2.4 GHz (DSSS, 1 Mops, 90pc duty cycle)	WLAN	1.99	19.6
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mops, 90pc duty cycle)	WLAN	1.99	19.6
10573	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1,98	±9.6
10574	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.08	±9.6
10575	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10578	AAA	IEEE 802 11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10577	AAA	IEEE 802 11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10578	AAA	IEEE 802 11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10570	AAA	IEEE 802.11g WIFI 2.4 GHz (DBSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	19.6
10580	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 38 Mbps, 90pc duty cycle)	WLAN	8.76	19.6
10581	AAA	IEEE 802 11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8:35	19.0
10582	AAA	IEEE 802 11g WIFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	19.6
10583	AAC	IEEE 802.11a/h WIFI 5 GHz (OFOM, 6 Mops, 90pc duty cycle)	WLAN	8.59	19.6
10584	AAC	IEEE 802.11a/h WIFI 5 GHz (OFOM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	19.6
10585	AAC	IEEE 802.11a/h WIR S GHz (OFDM, 5 Albas, 90pc duty cycle)	WLAN	8.70	
10586	AAC	IEEE 802 11wh WIF 5 GHz (OFOM, 12 Mbps, 90pc duty cycle)			19.6
10587	AAC		WLAN	8.49	±9.6
	AAC	IEEE 802.11a/h WIFI 5 GHz (CFCM, 24 Mbps, 90pc duty cycle)	WLAN	8.96	±9.6
10588		IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8,76	±9.6
10580	AAC	IEEE 802.11 M/r WIFI 5 GHz (OFDM, 48 Mbps, 80pc duty cycle)	WLAN	8.35	±9.6
10590	AAG	IEEE 802.11a/h WIFI 5 GH2 (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10591	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duly cycle)	WLAN	8.63	19.6
10592	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10583	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN.	8.64	±9.6
10584	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.8
10595	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN.	8.74	<b>土豆.6</b>
10596	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
10597	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6
0598	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
0599	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
0600	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10601	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6
10602	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 98pc duty cycle)	WLAN	8.94	±9.6
10603	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 80pc duty cycle)	WLAN	9.03	±9.6
10604	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MC55, 90pc duty cycle)	WLAN	8.76	±9.0
10605	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MC56, 90pc duty cycle)	WLAN	8.97	19.6
10606	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.8
	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	10.6
10607					

Certificate No: ES-3076\_Jul23

Page 15 of 21





July 18, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k=2
10609	AAC	IEEE 802.11ac WFI (20 MHz, MCS2, 90pc duty cycle)	WLAN	6.57	±9.0
10610	AAC	IEEE 802.11ac WIFI (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	£9.6
10611	AAC	IEEE 802.11ac WIFI (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAC	IEEE 802.11ac WiFi (20 MHz, WCS5, 90pc duty cycle)	WLAN	8.77	<b>法</b> 9.6
10613	AAC	IEEE 802,11ac WIFI (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.94	29.6
10614	AAC	IEEE 802.11ac WFI (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	29.8
10615	AAC .	IEEE 802.11ac WIFI (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10816	AAC	IEEE 802.11ac WIFI (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAC	IEEE 802.11ac WIFI (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	AAC	IEEE 802.11ac WFI (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	ANC	IEEE 802.11ac WIFI (40 MHz, MCS3, 90pc duty cycle)	WLAN	6.86	法律法
10:620	AAG	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	+9.6
10:621	AAC	IEEE 802.11ac WIFI (40 MHz, MC85, 90pc duty cycle)	WLAN	#.77	±9.8
10822	AAG	IEEE 802.11ac WIFI (40 MHz, MC56, 90pc duty cycle)	WLAN	8.68	±9.0
10.623	AAC	IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	19.6
10624	AAG	IEEE 802,11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	土田,石
10625	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6
10626	AAC	IEEE 802.11ac WIFI (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
10627	AAC	IEEE 802.11ac WIFI (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	19.6
10628	AAG	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8,71	±9.6
10629	AAG	IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10630	AAC	IEEE 802.11ac WIFI (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	0.9±
10631	AAC	IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	1.9.6
10632	AAC	IEEE 802.11ac WIFI (80 MHz, MCS6, 90pc duty cycle)	WLAN	B.74	±9.6
10633	AAC	IEEE 802.11ac WIFI (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
10634	AAC	IEEE 802.11ac WIFI (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
10635	AAC	IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	19.6
10636	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	B.83	±9.6
10637	AAD	IEEE 802.11ac WIFI (160 MHz, MCS1, 90pc duty cycle)	WLAN	8,79	±9.6
10638	AAD	IEEE 802.11ac WIFI (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.85	±9.6
10639	AAD	IEEE 802.11ac WiFi (100 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10640	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10641	AAD	IEEE 802.11ac WFI (160 MHz, MCBS, 90pc duty cycle)	WLAN	9,05	±9.6
10642	AAD	IEEE 802,11ac WIFI (100 MHz, MCSB, 90pc duty cycle)	WLAN	9.05	±9.6
10643	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAD	IEEE 802.11ac WIFI (150 MHz, MCS8, 90pc duty cycle) IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.05	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK, UL Subtrame=2.7)	WLAN	8.11	19.6
10647	AAG	LTE-TOD (SC-FDMA, 1 R8, 20MHz, QPSK, UL Subframe-2,7)	LTE-TOD	11.98	19.8
10648	AAA	CDMA2000 (1x Advanced)		11.96	19.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	CDMA2000 LTE-TDD	3,45	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Oldpring 44%)	LTE-TOD	6.91 7.42	±9.0
10854	AAE	LTE-TOD (OFDMA, 15 MHz, E-TM 3.1, Gipping 44%)	LTE-TOD	6.96	19.6
10655	AAF	LTE-TOD (OFDMA, 20 MHz, E-TM 3.1, Glipping 44%)	LTE-TDD	7.21	±9.6 ±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Tast	10.00	±9.6 ±9.6
10659	AAB	Pulse Wavaform (200Hz, 20%)	Test	6.99	±9.0 ±9.0
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±0.0 ±9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Tast	0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.10	19.6
10671	AAC	IEEE 802 11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	19.6
10672	AAC	IEEE 802.11ex (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	19.6
10674	AAC	IEEE 802 11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	19.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
10678	AAG	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	19.0
10878.	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	19.8
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680	AAC	IEEE 802,11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	19.5
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8,83	19.6
10883	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.5
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10.004		LINE IN AND A CONTRACTOR OF A DESCRIPTION OF A DESCRIPANTO OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTIO	1000 000	TO BADDONE	
10685	AAC	IEEE 802.11ax (20 MHz, MCS2, 98pc duty cycle) IEEE 802.11ax (20 MHz, MCS3, 98pc duty cycle)	WLAN	8.33	19.6

Certificate No: ES-3076\_Jul23

Page 16 of 21



## July 18, 2023

CIID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k =
10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	29.6
10688	AAC	IEEE 802.11ax (20 MHz, MCSS, 99pc duty cycle)	WLAN	8.29	19.6
0689	AAC	IEEE 802.11ax (20 MHz, MC58, 99pc duty cycle)	WLAN	8.55	29.8
0690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	:8.6
0.691	AAC	IEEE 802,11 ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	29.6
0.692	AAC	IEEE 802.11 ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	28.6
0.693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)		8.25	and the second sec
	AAC		WLAN		±9.6
0.694	AAC	IEEE 802.11ax (20 MHz, MCB11, 99pc duty cycle)	WLAN	8,57	±9,6
0.695		IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	16.78	±9.6
0.696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	3.9.6
0.697	AAG	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	法母,每
0.698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
0.699	AAC	IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	6.82	±9.6
0700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	主9.8
0701	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	19.6
10702	DAA	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	2.8.8
0703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	10.6±
0704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
0705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.69	19.6
0706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	19.6
0707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
0708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	19.6
0710	MAC	IEEE 802.11ax (40 MHz, MC83, 99pc duty cycle)	WLAN	8.29	19.0
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 98pc duty cycle)	WLAN		
10712	AAG	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)		8.39	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCSS, 99pc duty cycle)	WLAN	8,67	±9.6
0714	AAG		WLAN	8.33	19.6
10715	AAC	IEEE 602.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
	1.000	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9,6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 98pc duty cycle)	WLAN	B.48	±9.6
10718	AAC	IEEE 802,11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	1.9.8
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	5.81	±9.6
10720	ANC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.8
10722	AAC .	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±8.6
10723	ANC.	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	6.70	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.8
10725	AAC	IEEE 802.11ax (00 MHz, MCS5, 90pc duty cycle)	WLAN	8.74	+9.8
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802,11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	19.6
10729	AAC	IEEE 802 11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	10.0 注意,后
10730	AND	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 98pc duty cycle)	WLAN		±9.5
10732	AAC	IEEE 802.11ax (SOMHz, MCS1, 99pc duty cycle)	WEAN	8.42	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 98pc duty cycle)	WLAN	8.48	±9.6
10734	ANC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	TTATT	8.40	29.8
10735	AAC		WLAN	8,25	<b>π9.6</b>
	de la la companya de	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.27	±9.8
0737	AAC	IEEE 802.11ax (80 MHz, MCS6, 98pc duty cycle)	WLAN	8.35	±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 98pc duty cycle)	WLAN	8.42	29.6
0739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	±9.6
0740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WI.AN	8.48	19.6
0741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	B.40	±9.6
0742	AAC	IEEE 802.11 ax (88 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
0743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6
0744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	19.6
0745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	19.6
10746	AAC	IEEE 802.11ex (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	10.0
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	19.6
10768	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.93	
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	and the second se	19.6
0750	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	Total Advancement	8.90	±9.fi
10751	AAD	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.79	±9.6
10752			WLAN	8.82	±9.6
1107708	AAD	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	≥9.6

Certificate No: ES-3076\_Jui23

Page 17 of 21

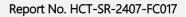


## July 18, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k =
10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6
10755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
0757	AAG	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WEAN	8.77	19.8
10758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.65	19.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
10.760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6
10781	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WEAN	8.58	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	19.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 89pc duty cycle)	WLAN	8.53	±0.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WEAN	8.54	+9.6
0766	AAG	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WEAN	8.51	±9.5
10767	AAE	5G NR (CP-OFOM, 1 R8, 5MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	19.6
10768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
0769	AAD	5G NR (CP-OFOM, 1 RB, 15MHz, QPSK, 15kHz)	SG NR FR1 TDO	8.01	
0770	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
0771	AAD	5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 15kHz)	ISG NR FR1 TDD	8.02	±9.6 ±9.6
0.772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FRI TDD	8.23	
0773	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15kHz)	5G NR FRT TDD	8.23	±9.6
0774	AAD	SG NR (CP-OFDM, 1 R8, 50 MHz, OPSK, 15kHz)	SG NR FR1 TDD	8.03	±9.6
0775	AAD	SG NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FRI TDD	8.31	±9.6
0776	AAD	50 NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FRI TDD	2 1 M	±9.6
0777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)		8.30	±9.6
0778	AAD	SG NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15kHz)	SG NR FR1 TOD	8.30	±9.6
0779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34	±9.6
0780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15kHz)		8.42	±9.6
0781	AAD	SG NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	19.6
0.782	AAD	SG NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz)	5G NR FR1 TOD	8.38	±9.6
0.783	AAE	5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15 kHz)	5G NR FRI TDD	8.43	±9,6
0784	AAD	5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 15MHz)	5G NR FR1 TDD	8.31	±9.6
0785	AAD.	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 15kHz)	SG NR FR1 TOD	8,29	19.6
0786	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	3G NR FR1 TOD	8,40	±9.6
0787	AAD	5G NR (CP-OFOM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,35	±9.6
0788	AAD	5G NR (CP-OFOM, 100% RB, 30 MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.44	±9.6
0789	AAD	SG NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15kHz)	56 NR FR1 TD0 56 NR FR1 TD0	8.39	±9.6
0790	AAD	5G NR (CP-OFEM, 100% RB, 50 MHz, QPSK, 15kHz)	1777501515C13677538495	8.37	±9.6
0791	AAE	5G NR (CP-OFOM, 1 HB, 5 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	8.39	±9.6
0792	AAD	5G NR (CP-OFDM, 1 R8, 10MHz, QPSK, 30kHz)	5G NR FR1 T00 5G NR FR1 T00	7.83	±9.8
0793	AAD	SG NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)		7.92	±9.6
0794	AAD	5G NR (CP-OFDM, 1 HB, 20MHz, QPSK, 30kHz)	5G NR FR1 TDD	7.95	±9.6
0795	AAD	SG NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 NHz)	5G NR FRI TOD	7.82	±9.6
0796	AAD	SG NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 KHz)	50 NR FR1 TDD	7.84	±9,6
0797	AAD	SG NR (CP-OFDM, 1 RB, 40 MHz, GPSK, 30 kHz)	56 NR FR1 TDD	7.82	±9.6
0798	AAD	5G NR (CP-OFDM, 1 HB, 50 MHz, GP SK, 30 kHz)	SG NR FR1 TDD	8.01	±9.6
0799	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7,89	±9.6
0801	AAO	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	53 NR FR1 TDD	7,93	±9.6
0802	AAD	SG NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7,89	±9.6
0803	AAD	5G NR (CP-OFDM, 1 AB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
0805	AAD	5G NR (CP-OFDM, 50% R8, 10 MHz, GPSK, 30 KHz)	5G NR FR1 TDD	7.93	±9.6
0808	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.34	±9.6
0809	AAD	56 NR (CP-OFDM, 50% RB, 30MHz, QPSK, 30 MHz)	5G NR FR1 TOD	0.37	±9.6
0810	AAD	SG NR (CP-OFDM, 50% RB, 30 MHz, GPSK, 30 KHz)	SG NR FRI TOD	8.34	±9,6
0812	AAD	SG NR (CP-OFDM, 50% RB, 60MHz, CPSK, 30kHz)	5G NR FR1 TDD	8.34	±9.6
0817	AAE	5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30kHz)	5G NR FR1 TDO	8.35	±8.8
1818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	8,35	±9.6
0619	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, CPSK, 30 kHz)	5G NR FRI TDD	8.34	±9.8
1820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, GPSK, 30 KHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, GPSK, 30 KHz)	5G NR FR1 TDD	8.33	±9.6
0821	AAD	SO NE CEDA 100% DE 25 MEZ COER 2014	5G NR FR1 TDD	8.30	#9.6
0822	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 KHz) 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	8.41	±9.6
0822	AAD	SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	8.41	±9.6
0824	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	58 NR FR1 TDD	8.36	19.6
0824	AAD	50 NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
0825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
0827	1.	5G NR (CP-OFDM, 100% RB, 80 MHz, GPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
0.000	AAD	50 NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.43	29.6

Certificate No: ES-3076\_Jul23

Page 18 of 21



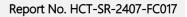


#### July 18, 2023

UID	Hev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k =
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8,40	±9.6
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10831	AAD.	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.8
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, GPSK, 60 kHz)	5G NR FR1 TDD	7,74	±9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	7,70	±9.6
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, (0 kHz)	5G NR FR1 TDD	7,75	±9.6
10855	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7,70	±9.6
10836	AAD	5G NR (CP-OFOM, 1 RB, 50 MHz, OPSK, 60 kHz)	5G NR FRI TDD	7,66	±9.6
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, GPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9.6
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	±9.6
10841	AAD	5G NR (CP-OFOM, 1 RB, 100 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	7.71	±9.6
10843	AAD	5G NR (CP-OFDM, 50% R8, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
10844	AAD	5G NR (CP-OFDM, 59% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10855	AAD	53 NR (CP-DFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	50 NR FR1 TDD	8.37	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±8.6
10858	AAD	50 NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.38	±9.6
10859	AAD	50 NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.8
10.880	AAD	5G NR (CP-DFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	SG NR FR1 TDD	8,41	±9.6
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	±9.6
10863	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±8.6
10854	AAD	5G NR (CP-OFDM, 100% R8, 90 MHz, QPSK, 60 kHz)	5G NR FRI TOD	8.37	±9.6
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QP5K, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 KHz)	5G NR FRI TDD	5.89	±9.8
10863	AAE	5G NR (DFT's OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
10871	AAE	5G NR (DFT-II-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9:8
10872	AAE	5G NR (DFT-4-OFDM, 100% RB, 100MHz, 16QAM, 120KHz)	5G NR FR2 TDD	6.52	±9.8
10.873	AAE	5G NR (DFT s-OFDM, 1 RB, 100 MHz, 84QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10.874	AAE	5G NR (DFTs-OFDM, 100% RB, 100MHz, 64QAM, 120kHz)	SG NR FR2 TOD	6.65	±8.6
	101.000	5G NR (CP-OFCM, 1 RB, 100 MHz, OPSK, 120 HHz)	5G NR FR2 T00	7.78	±9.6
10.876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9:8
10878	AAE	SG NR (CP-OFDM, 1 RB, 100 MHz, 160 AM, 120 kHz)	5G NR FR2 T00	7.95	±9.6
10879	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TD0	8.41	±9,6
10880	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8,12	±9.6
10881	AAE	SG NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) SG NR (DFT-6-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
10882	AAE	SG NR (DFT-6-OFDM, 1995 RB, 30MHz, QPSK, 120kHz)	SG NR FR2 TDD	6,75	±9,6
10883	AAE	SG NR (DFTs-OFDM, 188, 50 MHz, 0PSR, 120 Hz)	SG NR FR2 TDD	5.96	±9,6
0864	AAF	5G NR (DFTs-OFDM, 10% RB, 50 MHz, 16QAM, 120 MHz)	5G NR FR2 TDD	8.57	.≘9.6
0885	AAE	5G NR (DFT-6-OFOM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD 5G NR FR2 TDD	6.53	#9.8
10886	AAE	5G NR (DFT+-OFDM, 100% RB, 50 MHz, 64QAM, 120 MHz)	and and and the state of the design of the state of the state of the	6.61	±9.6
10887	AAE	SG NR (CP-OFDM, 1 RB, S0 MHz, OPSK, 120 KHz)	5G NR FR2 TDD 5G NR FR2 TDD	6.65	±9.6
0888	AAE	SG NR (CP-OFDM, 100% RB, 50 MHz, CP 5K, 120 MHz)	5G NR FR2 TDD	7.78	19.6
0689	AAE	SG NR (CP-OFDM, 1 RB, S0 MHz, 16QAM, 120 kHz)	SG NR FR2 TDD	8.35	±9.6
0880	AAF	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	19.6
0891	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 54QAM, 120 kHz)	5G NR FR2 TDD	8,13	±9.6
0892	AAE	50 NR (CP-OFDM, 100% RB, 50MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	±9.6 ±9.6
0897	AAC	5G NR (DFT-e-OFDM, 1 RB, 5MHz, OPSK, 30kHz)	5G NR FR1 TDD	5.86	±9.6 ±9.6
0898	AAB	SG NR (DFTs-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.67	
0999	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30kHz)	5G NR FR1 TOD	5.67	±9.6 ±9.6
0990	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30kHz)	5G NR FR1 TOD	5.68	19.6
0901	AAB	5G NR (DFT+-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.68	±9.6
0902	AAB	5G NR (DFTs-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	5.68	±9.6 ±9.8
0903	AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0904	AAB	5G NR (DFT-4-OFDM, 1 RB, 50 MHz, QPSK, 30kHz)	5G NR FR1 T00	5.68	±9.6 ±9.6
0905	AAB	SG NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	
8060	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 T00	5.68	±9.6
0907	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 Hz)	5G NR FR1 TDD	5.08	±9.6
0908	AAB	SG NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
0900	AAB	SG NR (DFT-8-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	56 NR FR1 TDD	5.93	±9.6
		and the second se	and the rest LUD.	10,000	±9.6

Certificate No: ES-3076\_Jul23

Page 19 of 21





July 18, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k =
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.93	±9.6
10912	AAB	50 NR (DFT-6-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAB	5G NR (DFT-e-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	+9.6
10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	AAB	5G NR (DFT-s-OFOM, 50% R8, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAB	5G NR (DFT-s-OFDM, 50% R8, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918	AAC	5G NR (OFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30%Hz)	5G NR FR1 TDD	5.86	19.6
10919	AAB	5G NR (OFT-s-OFOM, 100% RB, 10 MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.86	±9.6
10920	AAB	56 NR (DFT-8-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	SG NR FRI TDD	5.87	±9.6
10921	AAB	5G NR (DFT-6-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAR	5G NR (OFT a-OFDM, 100% RB, 25 MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAB	5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	53 NR FR1 TDD	5.84	19.6
10924	AAB	50 NR (DFTs-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)			
10925	AAB	50 NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	5.84	19.6
Contract Contractor	AAB		the state of the s	5.95	±9.6
10926	a second state of the seco	5G NR (DFTs-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,84	±9.6
10927	AAB	5G NR (OFTs-OFOM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAC	5G NR (OFT-8-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9,6
10929	AAC	5G NR (DFT-8-OFOM, 1 R8, 10 MHz, QPSK, 15 WHz)	5G NR FRI FDD	5.52	±9.6
10930	AAC	5G NR (OFT-6-OFOM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAC	5G NR (DFTs-OFOM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAC	5G NR (DFTs-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAO	5G NR (DFT-8-OFDM, 1 RB, 30 MHz, QPSK, 15 MHz)	5G NR FR1 FDD	5.51	±9.8
10534	AAC	5G NR (DFTs-OFDM, 1 RB, 49 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAD	5G NR (DFTe-OFOM, 1 RB, 50 MHz, QPSK, 15 KHz)	50 NR FR1 FDD	5.51	+9.6
10936	AAC	5G NR (DFT-e-OFDM, 50% R8, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10907	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	:9.6
10938	AAC	SG NR (DFT-s-OFOM, 50% RB, 15 MHz, QPSK, 15 kHz)	SG NR FR1 FDD	5.90	±9.6
10939	AAC	5G NR (DFT-6-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
10.940	AAC.	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10941	AAC	5G NR (DFT+-OFDM, 50% RB, 30 MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.83	#9.6
10942	AAC.	5G NR (DFT-6-OFDM, 50% RB, 40 MHz, QP3K, 15 kHz)	5G NR FR1 FDD	5.85	±9.5
10943	AAD	5G NR (DFT-e-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.81	±9.8
10948	AAC	6G NR (DFTs-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10946	AAC	5G NR (DFTs-OFDM, 100% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10948	AAC	5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	19.6
10949	AAC	5G NR (DFT's OFOM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% R8, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10901	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10.952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-DAM, 15kHz)	5G NR FRI FDD	8.25	±9.6
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 54-QAM, 15 kHz)	5G NR FR1 FDD	0.20	19.6
10964	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	
10965	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	the second se		±9.6
10.958	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.42	19.6
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 KHz)	5G NR FR1 FDD	8.14	:9.6
10958	AAA		5G NR FR1 FD0	8.31	±9.6
10958	AAA	SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	29.6
		5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	29.8
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	19.6
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.96	±8.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
10964	AAC	5G NR DL (CP-OFOM, TM 3.1, 5 MHz, 64-GAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
10965	AAB	5G NR DL (CP-OFOM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.6
10967	AAB	5G NR DL (CP-OFOM, TM 3.1, 29 MHz, 64-GAM, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 105 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9,49	±9.6
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.50	±9.6
10973	AAB	5G NR (DFT-s-OFDM, 1 R8, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	19.8
10974	AAB	5B NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
10978	AAA	ULLA BDR	ULLA	1.16	±9.6
10979	AAA	ULLA HORA	ULLA	8.58	±9.6
10980	AAA	ULLA HORE	ULLA	10.32	19.6
10981	AAA	ULLA HORp4	ULLA	3.19	±9.6
10882	AAA	ULLA HDRp8	ULLA	3.43	±9.6

Certificate No: ES-3076\_Jul23

Page 20 of 21



## July 18, 2023

UID	Bev	Communication System Name	Group	PAR (dB)	Unc <sup>®</sup> k = 3
10983	AAA	5G NR DL (CP-OFDM, TM S.1, 40 MHz, 64-QAM, 15 kHz)	SG NR FR1 TDD	9.91	±9.6
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FRI TOD	9.50	±9.6
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TOD	9.63	±8.8
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 50 kHz)	5G NR FR1 TOD	9.38	±9.8
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	±9.8
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.62	±9,6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TOD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.70	±9.6
11006	AAA	8G 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-OFOM, TM 3.1, 40 MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.46	±9.6
11008	AAA	5G NR DL (CP-OFOM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 54-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAA	IEEE 802 11be (\$20 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	19.6
11014	AAA	IEEE 802 11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	B.44	±9.6
11016	AAA	IEEE 802.11be (320 MHz, MC54, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAA	IEEE 802 11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8.41	±9.6
11018	AAA	IEEE 802 11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAA	IEEE 882,11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
11020	AAA	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.6
11021	AAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±9.8
11022	AAA	IEEE 802 11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAA	IEEE 802 11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6
11024	AAA	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN .	8.42	±9.6
11025	AAA	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	±9.6
11026	AAA	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	19.6

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

3

Certificate No: ES-3076\_Jul23

Page 21 of 21



ichmid inginee	Ition Laborato & Partner ering AG strasse 43, 8004 Zu			C S	chweizerischer Kalibrierdien ervice suisse d'étalonnage ervizio svizzero di taratura wiss Calibration Service			
he Swis	a Accreditation Se	editation Service (SAS) rvice is one of the signa he recognition of calibra		Accred	ditation No.: SCS 0108			
lient	HCT Gyeonggi-do, R	lepublic of Korea	Certificate No.	EUn	nm-9464_Feb24			
CAL	IBRATION C	ERTIFICATE						
Object		EUmmWV4 - S	SN:9464					
Calibrati	ion procedure(s)		, QA CAL-25.v8, QA CAL-42.v cedure for E-field probes optin air		r close near field			
Calibrati	ion date	February 19, 2024						
The mea	asurements and the	uncertainties with confider	o national standards, which realize the p nee probability are given on the following pratory facility: environment temperature	pages and	d are part of the certificate.			
The mea All calibr Calibrati	asurements and the rations have been or ion Equipment used	uncertainties with confider	nce probability are given on the following pratory facility: environment temperature on)	pages and	d are part of the certificate. and humidity < 70%.			
The mea All calibr Calibrati Primary : Power se	asurements and the rations have been or ion Equipment used Standards ensor NRP110T	uncertainties with confider onducted in the closed labo (M&TE critical for calibration IID SN: 101244	Cel Date (Certificate No.) Cel Date (Certificate No.) 12:Apr-23 (No. 0001A30069217)	) pages and (22 ± 3) °C	d are part of the certificate.			
The mee All calibratic Calibratic Primary : Power so Spectrum	asurements and the rations have been or ion Equipment used Standards ensor NRP1107 m analyzer FSV40	uncertainties with confider anducted in the closed labo (M&TE critical for calibratis IID SIN: 101244 SIN: 101832	Cal Date (Certificate No.) 12-Apr-23 (No. 0001A30069217 25-Jan-24 (No. 4030-315007551	) pages an (22±3)*C (22 ()	d are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-24 Jan-25			
The mea All calibration Calibration Primary Power se Spectrum Ref. Prol	asurements and the rations have been or ion Equipment used Standards ensor NRP110T	uncertainties with confider onducted in the closed labo (M&TE critical for calibration IID SN: 101244	Cel Date (Certificate No.) Cel Date (Certificate No.) 12:Apr-23 (No. 0001A30069217)	) pages an ((22±3)*C () () () ec23)	d are part of the certificate. and humidity < 70%. Scheduled Galibration Apr-24			
The mer All calibra Calibras Primary : Power se Spectrum Ref. Prol DAE4ip	asurements and the rations have been or ion Equipment used Standards ensor NRP110T m analyzer FSV40 be EUmmWV3	IID SN: 101244 SN: 101244 SN: 101244 SN: 101832 SN: 8374 SN: 1662	Cel Date (Certificate No.) Cel Date (Certificate No.) 12-Apr-23 (No. 0001A30069217 25-Jan-24 (No. 4030-315007551 04-Dec-23 (No. EUmm-9374_De 08-Nov-23 (No. DAE4ip-1662_N	) pages an ((22±3)*C () () () ec23)	d are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-24 Jan-25 Dec-24 Nov-24			
The mee All calibr Calibrati Primary P Power se Spectrum Ref. Proi DAE4ip Seconda	asurements and the rations have been or ion Equipment used Standards ensor NRP1107 m analyzer FSV40	uncertainties with confider anducted in the closed labo (M&TE critical for calibratis) ID SN: 101244 SN: 101832 SN: 9374	Cel Date (Certificate No.) Cel Date (Certificate No.) 12: Apr-23 (No. 0001A30069217 25-Jan-24 (No. 4030-315007551 04-Dec-23 (No. EUmm-9374_De 08-Nov-23 (No. ELEmm-9374_De 08-Nov-23 (No. DAE4ip-1682_N) Check Date (in house)	8) (22±3)*C (22±3)*C (22±3)*C (22±3)*C (22±3)*C (22±3)*C (22±3)*C (22±3)*C (22±3)*C (22±3)*C (22±3)*C (22±3)*C	d are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-24 Jan-25 Dec-24 Nov-24 Scheduled Check			
The mer All calibr Calibrati Primary 9 Power se Spectrum Ref. Prol DAE4ip Seconda Generate	asurements and the rations have been or ion Equipment used Standards ensor NRP110T manalyzer FSV40 be EUmmWV3 ery Standards	Uncertainties with confider anducted in the closed labo (M&TE critical for calibratis) SN: 101244 SN: 101832 SN: 101832 SN: 1062	Cel Date (Certificate No.) Cel Date (Certificate No.) 12-Apr-23 (No. 0001A30069217 25-Jan-24 (No. 4030-315007551 04-Dec-23 (No. EUmm-9374_De 08-Nov-23 (No. DAE4ip-1662_N	8) (22±3)*C	d are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-24 Jan-25 Dec-24 Nov-24			
The mer All calibr Calibrati Primary 9 Power se Spectrum Ref. Prol DAE4ip Seconda Generate	asurements and the rations have been or ion Equipment used Standards ensor NRP110T in analyzer FSV40 be EUmmWV3 ery Standards or APSIN26G	Uncertainties with confider anducted in the closed labo (M&TE critical for calibratis SIN: 101244 SIN: 101832 SIN: 101832 SIN: 9374 SIN: 1662 ID SIN: 669	Ce probability are given on the following pratory facility: environment temperature on) Cal Date (Certificate No.) 12-Apr-23 (No. 0001A30068217 25-Jan-24 (No. 4030-315007551 04-Dec-23 (No. EUmm-9374_De 08-Nov-23 (No. EUmm-9374_De 08-Nov-23 (No. DAE-lip-1662_N Check Date (in house) 28-Mar-17 (in house check May-	8) (22±3)*C 8) () ec23) (ov23) 23) 23)	d are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-24 Jan-25 Dec-24 Nov-24 Scheduled Check In house check: May-24 In house check: May-24			
The mer All calibrati Calibrati Primary 1 Power se Spectrum Ref. Prol DAE4ip Seconda Generate Generate	asurements and the rations have been or ion Equipment used Standards ensor NRP110T manalyzer FSV40 be EUmmWV3 ery Standards or APSIN26G or Aglient E8251A	Uncertainties with confider onducted in the closed labo (M&TE critical for calibratis SN: 101244 SN: 101832 SN: 9374 SN: 9374 SN: 9376 SN: 9376 SN: 9376 SN: 9376 SN: 9376 SN: 9376	Cei Date (Certificate No.) Cai Date (Certificate No.) 12:Apr-23 (No. 0001A30069217) 25.Jan-24 (No. 4030-315007551 04-Deo-23 (No. EUmm-6374_De 08-Nov-23 (No. ELimm-6374_De 08-Nov-23 (No. DAE4ip-1662_N) Check Date (in house) 28-Mar-17 (in house check May- 28-Mar-17 (in house check May-	8) (22±3)*C 8) () ec23) (ov23) 23) 23)	d are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-24 Jan-25 Dec-24 Nov-24 Scheduled Check In house check: May-24			
The mer All calibri Calibrati Primary : Power sz Spectrun Ref. Prol DAE4ip Seconda Generati	asurements and the rations have been or ion Equipment used Standards ensor NRP110T in analyzer FSV40 be EUmmWV3 ery Standards or Aglient E8251A ad by	uncertainties with confider anducted in the closed labo (M&TE ontical for calibratis SN: 101244 SN: 101832 SN: 101832 SN: 1062 ID SN: 669 SN: 0541140111 Name	Ince probability are given on the following pratory facility: environment temperature on) Cal Date (Certificate No.) 12-Apr-23 (No. 0001A300682177 25-Jan-24 (No. 4030-315007551 04-Dec-23 (No. 4030-315007551 04-Dec-23 (No. EUmm-9374_Dec- 08-Nov-23 (No. ELEMM-9374_Dec- 08-Nov-23 (No. DAE4ip-1862_N Check Date (in house) 28-Mar-17 (in house check May- 28-Mar-17 (in house check May- Function	8) (22±3)*C 8) () ec23) (ov23) 23) 23)	d are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-24 Jan-25 Dec-24 Nov-24 Scheduled Check In house check: May-24 In house check: May-24			
The mer All calibra Calibra Primary Power se Spectrum Ref. Prol DAE4ip Seconda Generats Generats Generats Generats	asurements and the rations have been or ion Equipment used Standards ensor NRP110T in analyzer FSV40 be EUmmWV3 ery Standards or APSIN26G or Agilent E8251A ad by	uncertainties with confider onducted in the closed labo (M&TE critical for calibratis SN: 101244 SN: 101832 SN: 101832 SN: 8374 SN: 1062 ID SN: 669 SN: 669 SN: 669 SN: US411401111 Name Leff Klysner Svert Kühn	Ce probability are given on the following pratory facility: environment temperature on) Cal Date (Certificate No.) 12-Apr-23 (No. 0001A30069217) 25-Jan-24 (No. 4030-315007551 04-Dec-23 (No. ELImm-9374_De 06-Nov-23 (No. ELImm-9374_De 06-Nov-23 (No. DAE-dip-1662_N) Check Date (in house) 28-Mar-17 (in house check May- 28-Mar-17 (in house check May- Function Laboratory Technician	8) (22±3)*0 (22±3)*0 (1) ec23) (0v23) 23) 23) 23) 23) 23)	d are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-24 Jan-25 Dec-24 Nov-24 Scheduled Check In house check: May-24 In house check: May-24			
The mer All calibra Calibra Primary Power se Spectrum Ref. Prol DAE4ip Seconda Generats Generats Generats Generats	asurements and the rations have been or ion Equipment used Standards ensor NRP110T in analyzer FSV40 be EUmmWV3 ery Standards or APSIN26G or Agilent E8251A ad by	uncertainties with confider onducted in the closed labo (M&TE critical for calibratis SN: 101244 SN: 101832 SN: 101832 SN: 8374 SN: 1062 ID SN: 669 SN: 669 SN: 669 SN: US411401111 Name Leff Klysner Svert Kühn	Ince probability are given on the following pretory facility: environment temperature on) Cal Date (Certificate No.) 12: Apr-23 (No. 0001A30069217) 25: Jan-24 (No. 4030-315007551 04: Dec-23 (No. ELImm-6374_De 08: Nov-23 (No. ELImm-6374_De 08: Nov-23 (No. DAE4ip-1662_N) Check Date (in house) 28:-Mar-17 (in house check May- Elimotion Laboratory Technician Technical Manager	8) (22±3)*C (22±3)*C (22±3)*C (1) (223) (23) (23) (23) (23) (23) (23) (2	d are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-24 Jan-25 Dec-24 Nov-24 Scheduled Check In house check: May-24 In house check: May-24			
The mer All calibra Calibra Primary Power se Spectrum Ref. Prol DAE4ip Seconda Generats Generats Generats Generats	asurements and the rations have been or ion Equipment used Standards ensor NRP110T in analyzer FSV40 be EUmmWV3 ery Standards or APSIN26G or Agilent E8251A ad by	uncertainties with confider onducted in the closed labo (M&TE critical for calibratis SN: 101244 SN: 101832 SN: 101832 SN: 8374 SN: 1062 ID SN: 669 SN: 669 SN: 669 SN: US411401111 Name Leff Klysner Svert Kühn	Ince probability are given on the following pretory facility: environment temperature on) Cal Date (Certificate No.) 12: Apr-23 (No. 0001A30069217) 25: Jan-24 (No. 4030-315007551 04: Dec-23 (No. ELImm-6374_De 08: Nov-23 (No. ELImm-6374_De 08: Nov-23 (No. DAE4ip-1662_N) Check Date (in house) 28:-Mar-17 (in house check May- Elimotion Laboratory Technician Technical Manager	8) (22±3)*C (22±3)*C (22±3)*C (1) (223) (23) (23) (23) (23) (23) (23) (2	d are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-24 Jan-25 Dec-24 Nov-24 Scheduled Check In house check: May-24 In house check: May-24 Scheduled Check In house check: May-24 Scheduled Check Scheduled Check			
The mer All calibra Calibra Primary Power se Spectrum Ref. Prol DAE 41p Seconda Generats Generats Generats Generats	asurements and the rations have been or ion Equipment used Standards ensor NRP110T in analyzer FSV40 be EUmmWV3 ery Standards or APSIN26G or Agilent E8251A ad by	uncertainties with confider onducted in the closed labo (M&TE critical for calibratis SN: 101244 SN: 101832 SN: 101832 SN: 8374 SN: 1062 ID SN: 669 SN: 669 SN: 669 SN: US411401111 Name Leff Klysner Svert Kühn	Ince probability are given on the following pretory facility: environment temperature on)  Cal Date (Certificate No.)  12:Apr-23 (No. 0001A30069217)  25-Jan-24 (No. 4030-315007551  04-Dec-23 (No. ELImm-9374_Dec- 08-Nov-23 (No. DAE-dip-1682_N)  08-Nov-23 (No. DAE-dip-1682_N)  Check Date (in house)  28-Mar-17 (in house check May- 28-Mar-17	8) (22±3)*C (22±3)*C (22±3)*C (22±3)*C (22) (23) (23) (23) (23) (23) (23) (24) (24) (24) (24) (24) (24) (24) (24	d are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-24 Jan-25 Dec-24 Nov-24 Scheduled Check In house check: May-24 In house check: Jake Jake Jake Jake Jake Jake Jake Jake			

Certificate No: EUmm-9464\_Feb24

Page 1 of 18



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



S Schweizerischer Kallbrierdienst

Service suisse d'étalonnage

С

S

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

NORMx,y	sensitivity in free space
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization $\psi$	φ rotation around probe axis
Polarization $\vartheta$	$\vartheta$ 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
Sensor Angles	sensor deviation from the probe axis, used to calculate the field orientation and polarization is the wave propagation direction

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

 IEEE Std 1309-2005, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005

#### Methods Applied and Interpretation of Parameters:

- NORMx,y: Assessed for E-field polarization θ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz; R22 waveguide). For frequencies > 6 GHz, the far field in front of waveguide horn antennas is measured for a set of frequencies in various waveguide bands up to 110 GHz.
- DCPx, y: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- Note: As the field is measured with a diode detector sensor, it is warrantied that the probe response is linear (E<sup>2</sup>) below the documented lowest calibrated value.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
   The frequency sensor model parameters are determined prior to calibration based on a frequency sweep (sensor model involving resistors R, R<sub>p</sub>, inductance L and capacitors C, C<sub>p</sub>).
- Ax, y; Bx, y; Cx, y; Dx, y; VRx, y; 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.
- 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).
- Equivalent Sensor Angle: The two probe sensors are mounted in the same plane at different angles. The angles are
  assessed using the information gained by determining the NORMx (no uncertainty required).
- Spherical isotropy (3D deviation from isotropy): in a locally homogeneous field realized using an open waveguide / hom setup.

Certificate No: EUmm-9464\_Feb24

Page 2 of 18



#### EUmmWV4 - SN:9464

# February 19, 2024

## Parameters of Probe: EUmmWV4 - SN:9464

## **Basic Calibration Parameters**

	Sensor X	Sensor Y	Unc (k = 2)
Norm $(\mu V/(V/m)^2)$	0.02247	0.02366	±10.1%
DCP (mV) B	105.0	104.0	±4.7%
Equivalent Sensor Angle	-59.2	36.4	

# Calibration Results for Frequency Response (750 MHz - 110 GHz)

Frequency GHz			Deviation Sensor Y dB	vr Y Unc (k = 2 dB		
0.75	77.2	-0.03	0.05	±0.43		
1.8	140.4	0.01	0.05	±0.43		
2.0	133.0	0.14	0.18	±0.43		
2.2	124.8	-0.06	-0.04	±0.43		
2.5	123.0	0.07	0.07	±0.43		
3.5	256.2	-0.22	-0.28	±0.43		
3.7	249.8	-0.08	-0.17	±0.43		
6.6	74.7	0.04	-0.28	±0.98		
8.0	67.2	-0.03	-0.09	±0.98		
10,0	66.2	-0.01	0.05	±0.98		
15.0	51.2	-0.03	0,13	±0.98		
26.6	112.6	0.22	0.16	±0.98		
30.0	121.9	0.03	-0.00	±0.98		
35.0	121,3	-0.17	-0.12	±0.98		
40.0	102.3	-0.31	-0.21	±0.98		
50.0	61.5	-0.03	-0.04	+0.98		
55.0	75.9	0.04	0.03	±0.98		
60.0	80.5	0.00	0.01	±0.98		
65.0	77.1	0.09	0.06	±0.98		
70.0	74.3	0.15	0.08	±0.98		
75.0	74.8	80.0	0.01	±0.98		
75.0	96.6	0.07	0.03	±0.98		
80.0	95.4	-0.05	-0.07	±0.98		
85.0	58.0	-0.09	-0.10	±0.98		
90.0	84.0	-0.03	-0.01	±0.98		
92.0	83.9	0.03	0.03	±0.98		
95.0	76.2	0.08	0.03	±0.98		
97.0	69.1	0.10	0.06	±0.98		
100.0	66.9	0.19	0.14	±0.98		
105.0	67.2	-0.02	-0.07	±0.98		
110.0	78.1	-0.14	-0.07	±0.98		

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%.

<sup>8</sup> Linearization parameter uncertainty for maximum specified field strength.

Certificate No: EUmm-9464\_Feb24

Page 3 of 18



## EUmmWV4 - SN:9464

# February 19, 2024

# Parameters of Probe: EUmmWV4 - SN:9464

# Calibration Results for Modulation Response

UID	Communication System Name		A dB	$dB\sqrt{\mu V}$	с	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> k=2
0	CW	X	0.00	0.00	1.00	0.00	121.2	±3.0%	±4.7%
		Y	0.00	0.00	1.00		96.2		
10352	Pulse Waveform (200Hz, 10%)	X	1.55	60.00	13.08	10.00	6.0	±1.3%	±9.6%
		Y	1.36	60.00	13.96		6.0		
10353	Pulse Waveform (200Hz, 20%)	X	1.00	60.00	12.17	6.99	12.0	±0.7%	±9.6%
	Contraction and the second	Y	0.89	60.00	13.10		12.0		
10354	Pulse Waveform (200Hz, 40%)	X	0.58	60.00	11.15	3.98	23.0	±0.9%	±9.6%
		Y	0.52	60.00	12.11		23.0		
10355	Pulse Waveform (200Hz, 60%)	X	0.36	60.00	10.58		27.0	±0.6%	±9.6%
	and the second	Y	0.35	60.00	11.34		27.0		
10387	QPSK Waveform, 1 MHz	X	0.81	60.00	11.26	1.00	22.0	±1.6%	±9.6%
		Y	0.85	60.00	11.40		22.0		
10388	QPSK Waveform, 10 MHz	X	1,17	60.00	11.84	0.00	22.0	±0.7%	±9.69
	A STATE AND A STORE OF A STATE	Y	1.21	60.00	11.91	10.02.00	22.0	SHEET	129-31513
10396	64-QAM Waveform, 100 kHz	X	1.63	60.00	13.82	3.01	17.0	±0.8%	±9.6%
	0.0010000000000000000000000000000000000	Y	1.69	60.00	13.86		17.0	1220234	112943355
10399	64-QAM Waveform, 40 MHz	X	2.01	60.00	12.37	0.00	19.0	±0.7%	±9.6%
		Y	2.03	60.00	12.46		19.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	2.96	60.00	12.80	0.00	12.0	±0.8%	±9.69
	Contraction and the second sec	Y	2.97	60.00	12.88		12.0	1.000	

Note: For details on UID parameters see Appendix

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

Certificate No: EUmm-9464\_Feb24

Page 4 of 18