

November 27, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10911	AAB	5G NR (DFT-s-OFDM, 50% R8, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	6.93	±9.6
10912	AAB	5G NR (DFT-8-OFDM, 50% RB, 30 MHJ, QPSK, 30 kHJ)	5G NR FR1 TDD	5.84	±9.6
10913	AAB	5G NR (OFT-s-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	±0.6
10915	AAB.	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	50 NR FRH TOD	5.83	±9.6
10918	AAB	5G NR (DFTs-OFDM, 50% RB, 80 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.87	+9.6
0917	AAB	5G NR (DFTs-OFDM, 50% RB, 100 MHz, OPSK, 30 kHz)	SG NR FR1 TDD	5.94	±9.6
0918	AAG	5G NR (DFT-s-OFDM, 100% RB, 5MHz, OPSK, 30kHz)	5G NR FR1 TDD	5.86	±9.6
0919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	19.6
0920	AAB	5G NR (DFT-9-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
0.921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
0922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	19.6
0.923	AAB	50 NR (DFT-e-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.84	19.6
10.924	AAB	5G NR (DFT-e-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.8
10.926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, GPSK, 30 kHz)	50 NR FR1 TOD	5.84	±9.6
0927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, GPSK, 30 kHz)	50 NR FR1 TDD	5.94	±9.6
0928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	6.52	±9.6
10929	AAC	5G NR (DFT's OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	19.6
0930	AAC	SG NR (DFT-s-OFDM, 1 RB, 15MHz, QPSK, 15kHz)	SG NR FR1 FDD	5.52	19.6
0931	AAC	SG NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FRI FDD	5.51	19.6
10932	AAC	SG NR (DFT-e-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFT-e-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10.934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	50 NR FRI FDD	5.51	±9.6
10995	AAD	5G NR (DFT-8-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10.937	AAC	5G NR (DFT-s-OFDM, 50% R8, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FOD	5.77	±9.6
10.938	AAC	5G NR (DFTs-OFDM, 50% AB, 15 MHz, GPSK, 15 kHz)	50 NR FR1 FDD	5.90	19.6
10939	AAC	5G NR (DFT-6-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	19.6
10940	AAC	50 NR (DFT-p-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	19.6
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 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 (DFFs-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAC	5G NR (DFTs-OFOM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.0
10946	AAC	5G NR (DFFs-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFOM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10948	AAC	5G NR (DFT-s-OFDM, 100% R8, 25 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.94	±8.6
10549	AAC	5G NR (OFTs-OFOM, 100% RB, 30 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.87	±9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.94	±9.6
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10952	AAA	5G NR DL (CP-OFDM, TM S.1, 5MHz, 84-QAM, 15kHz)	5G NR FR1 FDD	8.25	±9.6
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9.6
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.5
10955	AAA .	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	19.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30kHz)	5G NR FR1 FDD	8.14	±9.8
10957	AAA	5G NR DL (CP-OFCM, TM 3.1, 10 MHz, 64-GAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
0958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30kHz)	5G NR FR1 FDD	8.61	±9.6
0.959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
0.960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	SG NR FR1 TDD	9.32	±8.6
0.981	AAB	BG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	SG NR FR1 TDD	9.36	19.6
0.982	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	SG NR FR1 TDD	9.40	±9.6
0953	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDO	9.55	±8.6
0964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TOD	9.29	±9.6
0995	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	±9.6
0966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.6
0.967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	+9,6
8960	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	±9.6
0972	AAB	5G NR (CP-OFDM, 1 R8, 20 MHz, GPSK, 15 kHz)	5G NR FR1 TOD	11.59	±9.6
0973	AAB	5G NR (DFT-8-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	9.05	±9.6
0974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TOD	10.28	±9.6
0978	AAA	ULLA BDR	CILLA	1.16	19.6
0979	AAA.	ULLA HDR4	ULLA	8.58	±9.6
0880	AAA	ULLA HDR8	ULLA	10.32	19.6
0981	AAA	ULLA HDRp4	ULLA	3.19	19.6
0982	AAA	ULLA HDRp8	ULLA	3.43	±0.0 ±9.0

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc [®] k = 2
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	SG NR FR1 TDD	9.31	±9.8
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 FR1 TDD	9.50	±9.6
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	50 NR FR1 TDD	9.53	±9.6
10568	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	53 NR FR1 TDD	9.38	±9.6
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	±9,6
10990	AAA .	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-DAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64 QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9.8
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10,73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8,70	±9.6
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	±9.8
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8,46	±9.0
11008	AAA	SG NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	50 NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 54-QAM, 30 kHz)	53 NR FR1 FDD	8.96	±9.8
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 (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
11014	AAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.0
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
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)	WLAN	8.41	19.6
11018	AAA	IEEE 802.11be (320 MHz, MCS8, 90pc duty cycle)	WLAN	8.40	±9.8
11019	AAA	IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	19.6
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	19.0
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	Адд	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.6
11025	AAA	IEEE 802.11be (320 MHz, MCS13, 98pc duty cycle)	WLAN	8.37	±9.6
11.026	AAA	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WEAN	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.

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	2001		Accreditation No.: SCS 0108
HCT Gyeonggi-do, R	epublic of Korea	Certificate No.	EX-7751_Sep24
CALIBRATION C	ERTIFICATE	결 <u>제 1</u> 안 제 7/217	 祖親 名 토 승 인
Object	EX3DV4 - SN:7751	19/1/19 5 12/34 21 28 24 16 03	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Calibration procedure(s)	QA CAL-01.v10, QA CA QA CAL-25.v8 Calibration procedure fo		
Calibration date	September 19, 2024		
The measurements and the	ocuments the traceability to national sta uncertainties with confidence probabili	ty are given on the following	pages and are part of the certificate.
All calibrations have been or	onducted in the closed laboratory facilit	y: environment temperature ((22 ± 3)℃ and humidity < 70%.

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
OCP DAK-3.5 (weighted)	SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Oct23)	Oct-24
OCP DAK-12	SN: 1016	05-Oct-23 (OCP-DAK12-1016 Oct23)	Oct-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	26-Mar-24 (No. 217-04046)	Mar-25
DAE4	SN: 660	23-Feb-24 (No. DAE4-860 Feb24)	Feb-25
Reference Probe EX3DV4	SN: 7349	03-Jun-24 (No. EX3-7349_Jun24)	Jun-25
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-24)	In house check: Jun-26
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (In house check Oct-22)	In house check: Oct-24

	Name	Function	Signature
Calibrated by	Joanna Lleshaj	Laboratory Technician	Affeller
Approved by	Sven Kühn	Technical Manager	3.6
This calibration certifica	te shall not be reproduced except in	full without written approval of the lab	Issued: September 20, 2024 oratory.

Certificate No: EX-7751_Sep24

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



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

Accreditation No.: SCS 0108

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

Glossary

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diade compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization @	@ rotation around probe axis
Polarization 8	θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta = 0$ is normal to probe axis

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization ∂ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(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 ≤ 800MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx, y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- · Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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Parameters of Probe: EX3DV4 - SN:7751

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm (µV/(V/m)2) A	0.54	0.58	0.61	±10.1%
DCP (mV) B	106.6	106.2	106.2	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	c	D dB	VR mV	Max dev.	Max Unc ^{ill} k = 2
0	CW	X	0.00	0.00	1.00	0.00	136.6	±2.0%	±4.7%
	57271-11	Y	0.00	0.00	1.00		129.7		
		Z	0.00	0.00	1.00		145.7		
10352	Pulse Waveform (200Hz, 10%)	X	1.70	61.40	6.74	10.00	60.0	±2.8%	±9.6%
		Y	1.38	60.00	6.09		60.0	1	
		Z	1.60	61.09	6.63		60.0	1	
10353	Pulse Waveform (200Hz, 20%)	X	0.80	60.00	4.92	6.99	80.0	±2.4%	±9.6%
		Y	10.00	72.00	9.00		80.0	0.5135.527	
	THE REPORT OF TH	Z	10.00	72.00	9.00		0.08		
10354	Pulse Waveform (200Hz, 40%)	X	0.02	123.03	0.27	3.98	95.0	±2.8%	±9.6%
		Y	0.43	60.00	3.84	- and the second	95.0		
		Z	0.00	119.46	0.66		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	0.43	60.00	2.53	2.22	120.0	±1.6%	±9.69
		Y	11.79	132.73	1.23		120.0		
		Z	11.32	154.86	10.01		120.0		
10387	QPSK Waveform, 1 MHz	X	0.48	62.75	12.13	1.00	150.0	+3.4%	±9.6%
	122-022-000-022-2000-022-01-02	Y 0.56 64.66 13.13	 4924G3 	150.0	12/25/070				
	a beta at a second second second second	Z	0.59	63.88	12.39	1	150.0	1	
10388	QPSK Waveform, 10 MHz	X	1.26	65.62	13.60	0.00	150.0	±1.0%	±9.69
	An other and a straight of the	Y	1.37	66.76	14.21		150.0		
		Z	1.37	65.74	13.84		150.0	1	
10396	64-QAM Waveform, 100 kHz	X	1.55	63.28	15.32	3.01	150.0	±1.1%	±9.6%
		Y	1.75	65.15	16.10		150.0		
		Z	1.69	64.37	15.78		150.0		
10399	64-QAM Waveform, 40 MHz	X	2.75	66.18	15.01	0.00	150.0	±1.4%	±9.6%
		Y	2.85	66.75	15.31	10-60708	150.0		1.21003
	to over the product states in the second states and	Z	2.88	66.31	15.09		150.0	1	
10414	WLAN CCDF, 64-QAM, 40 MHz	X	3.66	65.87	15.12	0.00	150.0	+2.4%	±9.6%
		Y	3.79	66.39	15.40		150.0	0	
		Z	3.87	65.98	15.27		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%,

The uncertainties of Norm X, r,c do not about the E - state and uncertainty in the rest of the second state of th

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A The uncertainties of Norm X,Y,Z do not affect the E^{II}-field uncertainty inside TSL (see Pages 5 and 6).



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Parameters of Probe: EX3DV4 - SN:7751

Sensor Model Parameters

	C1 fF	C2 fF	и V ⁻¹	T1 ms V ⁻²	T2 msV ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	Т6
x	8.5	60.79	33.09	2.77	0.00	4.90	0.17	0.00	1.00
y I	8.6	61.89	33.02	3.70	0.00	4.90	0.53	0.00	1.00
Z	10.1	73.37	33.69	3.40	0.00	4.90	0.41	0.00	1.00

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-80.5*
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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

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Parameters of Probe: EX3DV4 - SN:7751

Calibration Parameter Determined in Head Tissue Simulating Media

t (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^Q (mm)	Unc ^H (k = 2)
750	41.9	0.89	8.91	8.11	8.99	0.40	1.27	±11.0%
835	41.5	0.90	8.75	7.96	8.83	0.40	1.27	±11.0%
900	41.5	0.97	8.64	7.85	8.71	0.40	1.27	±11.0%
1750	40.1	1.37	7.55	7.98	7.66	0.37	1.27	±11.0%
1900	40.0	1.40	7.35	7.78	7.46	0.37	1.27	±11.0%
2300	39.5	1.67	7.02	7.42	7.12	0.37	1.27	±11.0%
2450	39.2	1.80	6.75	7.14	6.85	0.37	1.27	±11.0%
2600	39.0	1.96	6.64	7.03	6.74	0.37	1.27	±11.0%
3300	38.2	2.71	6.49	6.86	6.58	0.37	1.27	±13.1%
3500	37.9	2.91	6.44	6.82	6.54	0.37	1.27	±13.1%
3700	37.7	3.12	6.33	6.70	6.43	0.37	1.27	±13.1%
3900	37.5	3.32	6.25	6.62	6.35	0.36	1.27	±13,1%
4100	37.2	3.53	5.85	6.19	5.93	0.36	1.27	±13.1%
5250	35.9	4.71	5.17	5.47	5.25	0.32	1.27	±13.1%
5600	35.5	5.07	4.71	4.98	4.78	0.29	1.27	±13.1%
5750	35.4	5.22	4.71	4.98	4.78	0.27	1.27	±13.1%
5800	35.3	5.27	4.77	5.05	4.84	0.27	1.27	±13.1%

^O Prequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–6 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz trequency validity can be extended to ±110 MHz.¹ The probes are calibrated using fissue simulating liquids (TSL) that deviate for z and or by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10% ¥ SAR convection is applied.⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for the uncertainty deviation larger than half the probe to disense from the boundary.¹ The probes the disense below 10 MHz, and below ±2% for the uncertainty deviation larger than half the probe to disense from the boundary.¹ The probes the disense of the probe to disense from the boundary.¹ The probes the disense below 10 MHz, and below ±2% for the uncertainty deviation due to the boundary of the probe to disense from the boundary.¹ The probes the distribution due to the boundary of the probe to disense from the boundary.¹ The probe the disense from the boundary.¹ The probes the distribution due to the boundary of the probe to disense from the boundary.¹ The probes the distribution due to the boundary of the probe to disense from the boundary.¹ The probes the disense from the boundary.¹ The probes the disense from the boundary.¹ The probes the distribution due to the boundary.¹ The probes the disense from the boundary.¹ The probes the distribution due to the boundary.¹ The probes the disense of the tabove

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

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Parameters of Probe: EX3DV4 - SN:7751

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc ^H (k = 2)
6500	34.5	6.07	5.33	5.64	5.41	0.20	1,27	±18.6%
7000	33.9	6.65	5.11	5.41	5.19	0.20	1.27	±18.6%
8000	32.7	7.84	5.36	5.67	5.44	0.20	1.27	±18.6%
9000	31.6	9.08	5.61	5.94	5.70	0.20	1.27	±18.6%

^C Frequency validity at 6.5 GHz is -600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the CorwF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.
^T The probes are calibrated using tissue simulating liquids (TSL) that deviate for *z* and *σ* by less than ±10% from the target values (typically better than ±6%) and are valid for TSL with deviations of up to ±10%.
^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3–6 GHz; and below ±4% for frequencies between 5–10 GHz at any distance larget than half the probe tip diameter from the boundary.

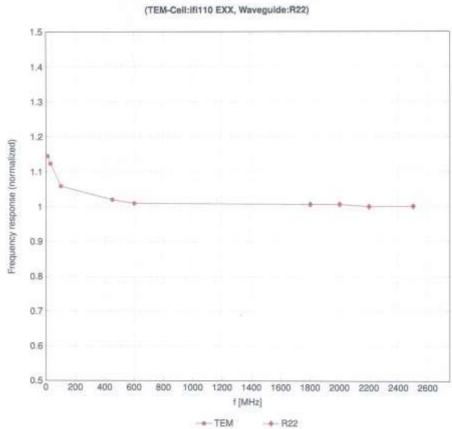
H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. This is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.

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Frequency Response of E-Field

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

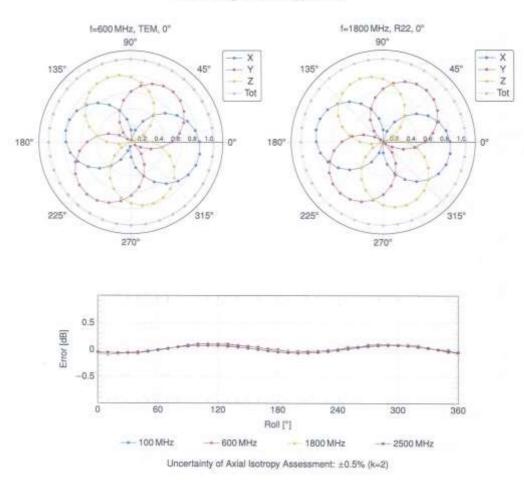
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EX3DV4 - SN:7751



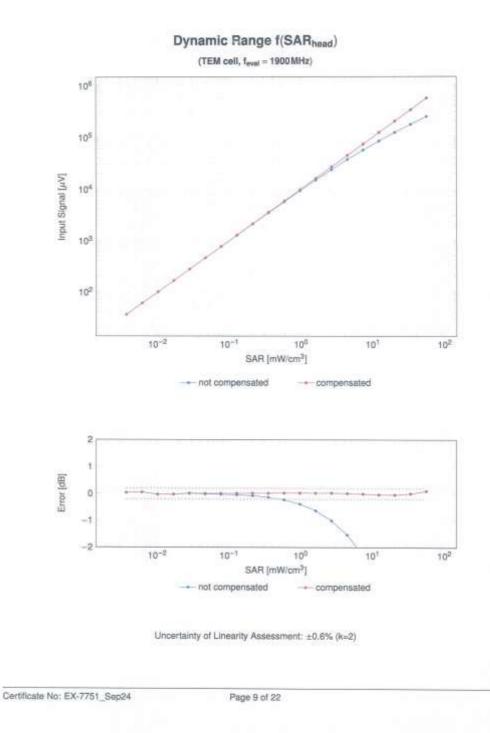
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

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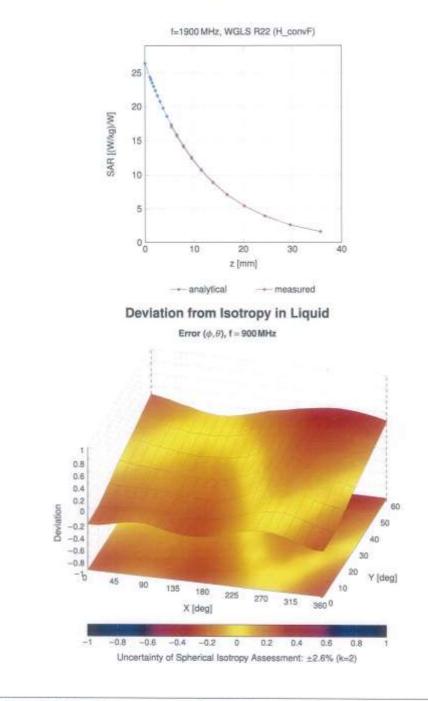
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Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Neme	Group	PAR (dB)	Unc ^E k =
0		ĊŴ	CW	0.00	±4.7
0010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10,00	±9.6
0011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
0012	CAB	IEEE 802.11b WFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
and the second s	and the second second	the second se	WLAN	9.46	±9.6
10013	CAB	IEEE 802 11g WFI 2.4 GHz (DSSS-OFDM, 6 Mbps)	GSM	9.39	19.6
10021	DAC	G5M-FDD (TDMA, GMSK)		9.57	±9.6
10.023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	and the later of t	
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	±9.6
10.025	DAC	EDGE-FDD (TDMA, BPSK, TN 0)	GSM	12.62	±9.6
10028	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
10027	DAG	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	太早.6
10.028	DAG	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6
10.029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.5
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	19.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.0
10032	CAA	IEEE 802.15.1 Bluetpoth (GFSK, DH5)	Buetooth	1.16	19.6
10033	CAA	IEEE 802 15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
and the local division of the			Bluetooth	4.53	±9.6
10034	CAA	IEEE 802.15.1 Bluelooth (PW-DQPSK, DH3)		3.83	19/0
10035	CAA	IEEE 802 15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth		
10036	CAA	IEEE 802 15 1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.5
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Buetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9,6
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Hafrate)	AMPS	7.78	±0.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Stat, 24)	DECT	13,80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot. 12)	DECT	10.79	±9.6
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
10058	DAG	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
10059	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps)	WEAN	2.12	±9.6
10060	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	19.6
	and the second second		WLAN	3.60	194
10061	CAB	IEEE 802.116 WIFI 2.4 GHz (DSSS, 11 Mbps)	WLAN	8.68	19.0
10062	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps)	and a state of the		
10.063	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	注泉点
10064	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAE	IEEE 802.11a/h WIFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.98	±9.8
10067	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAE	IEEE 802.11wh WIFI 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.8
10071	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.4
10073	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.0
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	19.6
10075	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.30	19.6
10076	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 36 Nops)	WLAN	10.94	19.0
10078	CAB	 If you have an experimental process in the second se Second second se Second second sec	and the second se	and the second s	the second s
	and the second s	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mops)	WLAN	11.00	±9.4
10081	CAB	GDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fulkate)	AMPS	4,77	1.9±
10090	DAC	GPRS-FDO (TOMA, GMSK, TN 0-4)	GSM	6.56	主見.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.4
10098	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.4
10099	DAG	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% AB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	=9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% FIB, 20 MHz, 64-QAM)	LTE-FDD	5.60	±9.6
10103	CAH	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TOD	9,29	±9.6
10104	CAH	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	=9.6
10105	CAH	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TOD	10.01	±0.0 ±9.0
10108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	-
10109	CAH				±9.6
		LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-GAM)	LTE-FDD	6.43	±9,6
10110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6
10111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-FDD	6.44	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k =:
0112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 54-QAM)	LTE-FOD	6.59	±9.6
0113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FOD	6.62	±9.6
0114	CAE	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
0115	CAE	IEEE 802,11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.45	±9.6
0116	CAE	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8,15	±9.8
0117	CAE	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.8
0118	CAE	IEEE 802.11n (HT Mixed, 81 Mbps, 16-GAM)	WLAN	8.59	±9.6
0119	CAE	IEEE 802.11n (HT Mixed, 136 Mbps, 64-QAM)	WLAN	8.13	± 9.6
0140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 18-QAM)	LTE-FDD	6.49	±9.6
0141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9,6
0142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
0143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
0144	GAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
0145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
0146	CAG	LTE-FDD (SC-FDMA, 100% R8, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.8
0147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
0149	CAF	LTE-FDD (SC-FDMA, 50% R8, 20 MHz, 16-QAM)	LTE-FDD	6.42	+9.6
0150	CAF	LTE-FDD (SC-FDMA, 50% R8, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
0151	CAH	LTE-TOD (SC-FDMA, 50% R8, 20 MHz, QPSK)	LTE-TDD	0.28	±9.8
0152	CAH	LTE-TDD (SC-FDMA, 50% R8, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
0153	CAH	LTE-TDD (SC-FDMA, 50% HB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
0154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
0155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
0156	CAH	LTE-FDD (SC-FDMA, 50% RE, 5 MHz, QPSK)	LTE-FDD	5:79	±9.6
0157	CAH	LTE-FDD (SC-FDMA, 50% R8, 5 MHz, 16-QAM)	LTE-FDD	6,49	±9,6
0158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDO	6.62	±9.6
0159	CAH	LTE-FDD (SC-FDMA, 50% R8, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
0160	CAF	LTE-FDD (SC-FDMA, 50% RB; 15 MHz, GPSK)	LTE-FDD	5.82	±9.6
0161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.8
0162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	19.6
0166	CAG	LTE-FDD (SC-FDMA, 60% RB, 1.4 MHz, QPSK)	LTE-FOD	5.46	±9.6
0167	CAG	LTE-FDO (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
0168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.8
0169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FOD	5.73	±9.6
0170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.8
0171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.8
0172	CAH	LTE-TOD (SC-FDMA, 1 RB, 20MHz, QPSK)	LTE-TDD	9.21	± 9.6
0173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
0175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10MHz, QPSK)	LTE-FDD	5.72	±9.6
0176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10MHz, 16-QAM)	LTE-FDD	6,52	±9.6
0177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-FDD	5.73	±9.6
0178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9,6
0179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FOD	6.50	±9.8
0180	ÇAH	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-FDD	6.50	±9.6
0181	CAF	LTE-FDD (SC-FDMA, 1 RB, 16MHz, QPSK)	LTE-FDD	5.72	±9.8
0182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-FDD	6.52	±9.6
0183	AAE	LTE-FDD (SC-FDMA, T RB, 15MHz, 64-QAM)	LTE-FDD	6.50	±9.fi
0184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK)	LTE-FDD	5.73	±9.6
0185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)	LTE-FOD	6.51	±9.6
0186	AAF	LTE-FDD (SC-FDMA, 1 FIB, 3MHz, 64-QAM)	LTE-FOD	6.50	±9.6
0187	CAG	LTE-FDO (SC-FDMA, 1 RB, 1.4MHz, QPSK)	LTE-FDD	5.73	±9.8
0188	CAG	LTE-FDO (SC-FDMA, 1 RB, 1 4MHz, 16-QAM)	LTE-FDD	6.52	±9.8
0189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FOD	6.50	±9.6
0198	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mops, BPSK)	WLAN	8.09	±9.6
0194	CAE	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.8
and the second second	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.21	±9.6
0196	CAE		WLAN	8.10	±9.6
0197	CAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.8
0198	CAE	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
and shares and	CAE	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.8
0220	CAE	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
0221	CAE	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
0222	CAE	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
0223	CAE	IEEE 802.11n (HT Mixed, 90 Mbps, 10-QAM)	WLAN	8.48	:9.6
0224	CAE	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9:6

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UID	Rev	Communication System Name	Group	PAR (dB)	Uno [±] k =
0.225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	19.5
0226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-GAM)	LTE-TOO	9.49	3.6±
0.227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6
0228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.8
0229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0230	CAE	LTE-TOD (SC-FDMA, 1 RB, 3MHz, 64-QAM)	LTE-TOD	10.25	±9.6
0231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TOD	9.19	±9.6
0232	CAH	LTE-TOD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-TOD	9.48	£9.8
and the second second	CAH	LTE-TOD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-TDD	10.25	29.6
0233	CAH	LTE-TOD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-TDD	9.21	±9.6
Carlot A. artis	CAH	LTE-TOD (SC-FOMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	+9.6
0235		LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	19.6
0236	CAH	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TOD	9.21	±9.6
0237	CAH		LTE-TDD	9.48	±9.5
0.539	CAG	LTE-TOD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-TDD	10.25	±9.8
0.239	CAG	LTE-TOD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	9.21	±9.5
0240	CAG	LTE-TDD (SC-FDMA, 1 R8, 15MHz, QPSK)	LTE-TOD	9.82	±9.5
0.2,41	CAC	LTE-TDD (SC FDMA, 50% RB, 1.4 MHz, 16-QAM)		9.85	19.6
0242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TOD	9.46	
0243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4MHz, QPSK)	LTE-TOD		±9.8
0244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 18-QAM)	LTE-TOD	10.05	±9.6
0245	CAE	LTE-TOD (SC-FDMA, 50% RB, 3 MHz, 84-QAM)	LTE-TDD	10.06	29.6
0246	CAE	LTE-TDD (SC-FDMA, 50% R8, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
0247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
0248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5MHz, 54-QAM)	LTE-TDD	10.09	±9,6
0249	CAH	LTE-TOD (SC-FDMA, 50% RB, 5MHz, QPSK)	LTE-TOD	9.29	±9.6
0250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	19.6
0251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10,17	±9.6
0.252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TOD	9.24	19.6
0.253	CAG	LTE-TOD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.8
0254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDO	10.14	±9.6
0255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15MHz, QP6K)	LTE-TDO	9.20	±9.6
0256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TOD	9.96	±9.6
0.257	CAC	LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDO	10.08	±9.6
0258	CAC	LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	:19.6
0259	CAE	LTE-TOD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6
0260	CAE	LTE-TOD (SC-FOMA, 100% RB, 3MHz, 64-QAM)	LTE-TDD	9.97	±9.6
0261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK)	LTE-TDD	9.24	±9.6
0262	CAH	LTE-TOD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6
0263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6
0264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK)	LTE-TDD	9.23	±9.6
0265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
0266	CAH	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	19.6
0.267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6
0268	CAG	LTE-TOD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-TDD	10.06	±8.6
0.269	CAG	LTE-TDD (SC-FDMA, 100% R8, 15MHz, 64-QAM)	LTE-TDD	10.13	19.6
0270	CAG	LTE-TDD (SC-FDMA, 100% P8, 15MHz, QPSK)	LTE-TDD	9.58	±8.6
0274		UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	+9.6
0275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	19.6
0275	CAA		PHS	11.81	19.6
this he plants		PHS (QPSK)	PHS	the second se	
0278	GAA	PHS (QPSK, BW 884 MHz, Roloft 0.5)		11.81	±9.6
0279		PHS (OPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	19.6
0,290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
0291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
0.585	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
0.293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
0295		CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12,49	:19.6
0.297		LTE-FDD (SC-FDMA, 50% RB, 20MHz, QPSK)	LTE-FDD	5.81	19,6
0298		LTE-FDD (SC-FDMA, 50% RB, 3MHz, QPSK)	LTE-FDD	5,72	±9.6
0,299	and the second se	LTE-FDD (SC-FDMA, 90% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
0.300		LTE-FDD (SC-FDMA, 50% RB, 3MHz, 64-QAM)	LTE-FDD	6.60	±9.8
0301	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	XAMW	12.03	±9.6
0302	and and makes in the	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTPL symbols)	XAMW	12.57	±9.6
0 3 0 3	AAA	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	XAMIW	12.52	±9.6
0304		IEEE 802.16e WIMAX (29.18, 5 ms, 10 MHz, 64QAM, PUSC)	XAMIW	11,86	±9.6
0305	AAA	IEEE 802.16e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WIMAX	15.24	±9.6
0306		IEEE 802 16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	XAMIW	14.67	±9.6

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10307	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WIMAX	14,49	±9.6
0308	AAA	EEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	XAMW	14.46	±9,6
0000	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WMAX	14.58	±9.6
0310	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	XAMIW	14.57	±9.6
0.311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6
0313	AAA	IDEN 13	IDEN	10.51	±9.8
0314	AAA	IDEN 1:6	IDEN	13.48	±9.6
0915	AAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10316	AAB	IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10317	AAE	IEEE 802.11a WIFI 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
0352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.5
0353	AAA	Pulse Waveform (200Hz, 20%)	Generic.	6.99	±9.6
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.8
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±9.6
10396	AAA	64-GAM Waveform, 100 kHz	Generic	6.27	±9.6
10399	AAA	64-QAM Wavelorm, 40 MHz	Ganario	6.27	±9,8
10400	AAF	IEEE 802.11ac WIFi (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
0401	AAF	IEEE 802.11ac WIFI (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8,60	±8.6
10402	AAF	IEEE 802.11ac WiFI (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
10403	AAB	CDMA2000 (1xEV-DO, Flev. 0)	CDMA2000	3.75	±9.6
10404	AAB	COMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
10408	AAB	COMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6
10410	AAH	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,8, Subframe Cont=4)	LTE-TOD	7.82	±9.8
0414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WIFi 2.4 GHz (DBSS, 1 Mope, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mops, 99pc duty cycle)	WLAN	8.23	±9.6
10417	AAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9,6
10418	AAA	IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	±9.6
10419	A,A,A	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	±9.6
10422	DAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	±9.6
10423	AAD	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8,47	±9.6
10.424	,A,AD	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6
0.425	AAD	IEEE 802.11n (HT Greenfield, 15 Mbps, 8PSK)	WLAN	8.41	±9.6
10426	CAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 18-QAM)	WLAN	8.45	±9.6
10427	AAD	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
0433	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
0.434	AAG	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10435	AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QFSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	19.6
The statements	and all store have	LTE-FDD (OFDMA, 5MHz, E-TM 3.1, Glipping 44%)	LTE-FDD	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15MHz, E-TM 3.1, Clipting 44%)	LTE-FDD	7.51	±9.6
10450	AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) W-CDMA (BS Test Model 1, 64 DPCH, Olipping 44%)	LTE-FDD	7,48	±9.6
0.453	AAE	Validation (Spuare, 10 ms, 1 ms)	WCDMA	7.59	±9.6
10456	AAD	Validation (Square, 10 mil, 1 ms) IEEE 802.11ac WiFi (160 MHz, 64-QAM, 98pc duty cycle)	Test	10.00	19.6
0457	AAB	UMTS-FDD (DC-HSDPA)	WLAN	8.63	±9.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 camers)	CDMA2000	6,62	±9.6
0459	AAA	COMA2000 (TKEV-DO, Flex, B, 2 carriers)	CDMA2000	6.55	±9.6 ±9.6
0460	AAB	UMTS-FDD (WCDMA, AMR)	WCOMA	2.39	Contraction in the local data
0461	AAC	LTE-TOD (SC-FDMA, 1 BB, 1.4 MHz, QPSK, UL Subtrame=2.3,4,7,8,9)		10000	±9.6
0462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 15-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
0463	AAC	LTE-TDO (SC-FDMA, 1 RB, 1.4MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.56	±9.6
0464	AAD	LTE-TDD (SC-FDMA, 1 R8, 3MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
0465	AAD	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subtramew2.3.4,7,8.9)	LTE-TOD		±9.8
0.466	AAD	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subhameix2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subhameix2,3,4,7,8,9)	LTE-TOD	8.32	±9.6
0467	AAG	LTE-TOD (SC-FDMA, 1 RB, 5MHz, 0P-2044, 0L Subframe=2.3,4,7,8,9)	and the second se	8.57	8.6±
0468	AAG	LTE-TOD (SC-FDMA, 1 R8, 5MHz, 16-QAM, UL Subhame=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
0468	AAG	LTE-TDD (SC-FDMA, 1 R8, 5MHz, 15-QAM, UL Subtramex2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 R8, 5MHz, 64-QAM, UL Subtramex2,3,4,7,8,9)	LTE-TOD	8.32	±9.8
0408	AAG	LTE-TDD (SC-FDMA, 1 R8, 5MPZ, 64-QAW, U. Subrame+2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 R8, 10 MHz, QPSK, UL Subrame+2,3,4,7,8,9)	LTE-TOD	8.56	±9.6
0470	AAG		LTE-TOD	7.82	±9.6
	1.6669	LTE-TDO (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	±9.6

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10472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subtrame=2.3,4,7,8,9)	LTE-TDD	8.57	±9.6
10473	AAF	LTE-TOD (SC-FDMA, 1 RB, 15MHz, GPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TDD	8.32	±9.6
10475	AAF	LTE-TOD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL SubInime=2.3,4,7,8,9)	LTE-TOD	8.57	±9.6
10477	AAG	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
10478	AAG	LTE-TOD (SC-FDMA, 1 RB, 20MHz, 64-QAM, UL Subtrame=2.3.4.7.8.9)	LTE-TOD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,6,9)	LTE-TDD	7.74	±9.6
10480	AAC	LTE-TDD ISC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	±9.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.45	±9.6
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.71	±9.6
0483	AAD	LTE-TDD (SC-FDMA, S0% RB, 3MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TDD	8.39	±9.6
	AAD	LTE-TOD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.47	±9.6
0484	AAG	LTE-TDD (SC-FDMA, 50% RB, 5MHz, OPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.59	±9.6
	AAG	LTE-TOD (SC-FDMA, 50% RB, 5MHz, 16-OAM, UL Subfame=2,3,4,7,8,9)	LTE-TOD	8.38	±9.6
10486	-	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	±9.6
1000000	AAG	LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-GMM, 0L Subframe=2.3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10MHz, 0PSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD	7.70	±9.6
0488	AAG				
0489	AAG	LTE-TDD (SC-FDMA, 50% R8, 10 MHz, 16-QAM, UL Subframe=2.3,4,7,8.9)	LTE-TDD	8.31	±9.6
10.490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UE Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
0.491	AAF	LTE-TDD (SC-FDMA, 50% R8, 15 MHz, QPSK, UL Subtrame=2,3,4,7,8.9)	LTE-TDD	7,74	19.6
0.492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subhame=2,3,4,7,8,9)	LTE-TOD	8.41	±9.6
10.493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM, UL Subitame-2,3,4,7,8,9)	LTE-TDO	8.55	±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD	7.74	±9.6
10495	AAG	LTE TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TBD	8.37	±9.8
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 54-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.54	±9.5
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	7.67	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.40	土9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOO	8.68	±9.8
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.67	±9.6
10:501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.44	±9.8
10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subiname+2,3,4,7,8,9)	LTE-TOD	8.52	19.6
10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, GPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOO	7.72	±9.6
10504	AAG	LTE-TDO (SC-FDMA, 100% RB, 5 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOO	8.31	+9.6
10505	AAG	LTE-TDO (SC-FDMA, 100% RB, 5 MHz, 54-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TOO	8.54	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOO	7.74	±9.5
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDO	8.36	±8.8
10508	AAG	LTE-TDD (SC-FDMA, 100% R8, 10 MHz, 64-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TOD	8.55	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDO	7.99	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM, UL Subtrame=2.3.4.7.8.9)	LTE-TDD	8.49	+9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% PB, 15 MHz, 64-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TDO	8.51	19.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD	7.74	10.0
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2.3.4,7.8.9)	LTE-TDD	8.42	19.6
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	2007	and the second se
10515	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	8.45	±0.6
10516	AAA		WLAN		2.9.5
10517	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	and the second se	1.57	±9.5
	2004.6		WLAN	1.58	±9.8
10518	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
interior taxable	and and a strength of	IEEE 802 11a/h WIF 5 GHz (OFDM, 12 Mops, 99pc duty cycle)	WLAN	8.39	19.6
10520	AAD	IEEE 802.11a/h WFI 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
10521	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7,97	±9.6
10522	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10523	AAD	IEEE 802.11a/h WFI 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
10524	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6
10525	AAD	IEEE 802.11ac WIFI (20 MHz, MCSO, 99pc duty cycle)	WLAN	8.36	±9.6
10526	AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8,42	±9.6
0527	AAD	IEEE 802.11ac WFI (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
10528		IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8,36	±9.6
0.529	AAD	IEEE 802.11ac WIFI (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	±9.6
10531	AAD	IEEE 802.11ac WIFI (20 MHz, MCS6, 99pc duty cycle)	WLAN	8,43	±9.6
10532	AAD	IEEE 802.11ec WIFi (20 MHz, MCS7, 99pc duty cycle)	WEAN	8.29	±0.6
10,533	AAD	IEEE 802.11ac WIFI (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6
10534	AAD	IEEE 802.11ac WFi (40 MHz, MCS0, 99pc duty cycle)	WLAN	8,45	±9.6
0535	AAD	IEEE 802 11ac WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	19.6
10536	AAD.	IEEE 802.11ac WIFI (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±0.6
10537	AAD	IEEE 802.11ac WFi (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
10538	AAD	IEEE 802.11ac WFi (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.54	±9.6
10540	AAD	IEEE 802.11ac WIFI (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.39	±9.6

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UID	Hev	Communication System Name	Group	PAR (dB)	Unc ^E k =
10541	AAD	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	B.46	±9.6
10542	AAD	IEEE 802 11ac WIFI (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	19.6
10543	AAD	IEEE 802,11ac WFI (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAD	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
10545	AAD	IEEE 602.11ac WIFI (80 MHz, MCS1, 99bc duty cycle)	WLAN	8.85	±9.6
0546	AAD	IEEE 802 11ac WIFI (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
10547	AAD	IEEE 802.11ac WIFI (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.5
10548	AAD	IEEE 802.11ac WIFI (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
10550	AAD	IEEE 802 That WiFI (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
	AAD	IEEE 802 11ac WIFI (80 MHz, MCS6, aspc buty cycle)	WLAN	B.50	±9.6
10.551	AAD	IEEE 802.11ac WiF (80 MHz, MCS7, 550 duty cycle)	WLAN	8.42	±9.5
0552	and all successives		WLAN	8.45	19.6
0553	AAD	IEEE 802.11ac WIFI (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
10554	AAE	IEEE 802.11ac WiFI (160 MHz, MCS0, 99pc duty cycle)		B.40 B.47	and the second s
10555	AAE	IEEE 802.11ac WIFI (160 MHz, MCS1, 99pc duty cycle)	WLAN	and the second se	±9.6
10558	AAE	IEEE 802.11ec WIFI (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
0557	AAE	IEEE 802.11ac WIFI (160 MHz, MCSS, 99pc duty cycle)	WLAN	8.52	±9.6
0558	AAE	IEEE 802.11ac WIFI (16D MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6
10560	AAE	IEEE 802.11ac WIFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.73	±9.6
0561	AAE	IEEE 802.11ac WIFI (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	土甲,日
0562	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
0563	AAE	IEEE 802.11ac WIFI (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10564	AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	19.6
10567	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10559	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	19.6
10570	AAA	IEEE 882.11g WIFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	9.30	±9.6
10571	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.96	19.6
10572	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps, 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	19.6
10574	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	19.6
10575	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	19.6
10578	AAA	IEEE 802.11g WIF12.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WIF12.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WEAN	8.60	
10577	AAA	IEEE 802.11g WH12.4 GH2 (DSSS-OFDM, 9 Mbbs, 90pc duty cycle)	and the second sec	and the second se	+9.6
	and the second second		WLAN	8.70	19.6
10578	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8,49	±9.6
10579	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	19.6
10580	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mops, 90pc duty cycle)	WLAN	8,76	±9.6
10581	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mops, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 54 Mops, 90pc duty cycle)	WLAN	8.57	±9.6
10583	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mops, 90pc duty cycle)	WLAN	8,59	±9.6
10584	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10.585	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 50pc duty cycle)	WLAN	8.70	±9.6
10586	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10587	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10588	(AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.78	±9.6
10589	AAD	IEEE 802.11 a/h WIFI 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10590	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10591	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
10.592	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10593	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6
10594	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10595	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
10596	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
0597	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	19.6
0.598	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	18.6
10599	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	Contraction of the last of the
10600	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.68	19.6
10601	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN		±9,6
10602	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)		8.82	±9.6
10603	AAD		WLAN	8.94	±9.6
	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
10604	and the second second	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9.6
10605	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6
10606	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10607	AAD	IEEE 802 11ac WIFI (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6
0608	DAA	IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.6

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0609	AAD	IEEE 802.11ap WIFI (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
0610	AAD	IEEE 802.11ac WIFI (20 MHz, WCS3, 90pc duty cycle)	WLAN	8.78	±9.6
0611	AAD.	IEEE 802.11ac WIFI (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	19.6
0612	AAD	IEEE 802 11ac WIFI (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
0613	AAD	IEEE 802.11ac WFI (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
			WLAN		
0614	AAD	IEEE 802.11ac WIFI (20 MHz, MCS7, 90pc duty cycle)		8.59	19.6
0615	AAD	IEEE 802.11ac WIFI (20 MHz, MCS8, 90pt duty cycle)	WLAN	8.82	±9.6
0616	CIA,A,	IEEE 802.11ac WFI (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
0617	AAD	IEEE 802,11ac WIFI (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
0618	AAD	IEEE 832.11ac WIFI (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
0619	(AAD	IEEE 802.11ac WiFi (40 MHz, MCB3, 90pc duty cycle)	WLAN	8.86	主身.存
0620	CAA	IEEE 802.11ac WIFI (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
0621	AAD	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
0622	AAD	IEEE 802.11ac WIFI (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
0623	AAD	IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle)	WILAN	8.82	±9.6
0624	AAD	IEEE 802.11ac WIFI (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.0
and the lot of the second	AAD	Card of Party and Card Card and Annual Annual Annual Annual Annual Party and Annual Party and Annual Annual Party	WLAN	8.96	in a second s
0625		IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle)			±9.6
0626	AAD	IEEE 802.11ac WIFI (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
0627	DAA,	IEEE 802.11ac WIFI (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
0628	AAD	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.0
0629	A,AD	IEEE 802.11ao WiFi (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
0630	AAD	IEEE 802.11ac WIFI (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
0631	AAD.	IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6
0632	AAD	IEEE 802.11ac WFI (80 MHz, MCS6, 90pc duty cycle)	WEAN .	8.74	±9.6
0633	AAD	IEEE 802.11ac WIFI (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
0634	AAD	IEEE 802.11ac WIFI (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
0635	AAD	IEEE 802.11ac WFI (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	19.6
10636	AAE		TIME I CHARLES		
	and the second second	IEEE 802.11ac WFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
0637	AAE	IEEE 802.11ac WIFI (160 MHz, MCS1, 90pc duly cycle)	WEAN	8.79	±8.6
0638	AAE	IEEE 802.11ac WIFI (180 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
0639	AAE	IEEE 802.11ac WFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	但,86	±9.6
0.640	AAE.	IEEE 802.11ac WFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10:641	AAE	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
0.642	AAE	IEEE 802.11ac WFI (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
0643	AAE	IEEE 802.11ac WIFI (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	19.6
0644	AAE	IEEE 802.11ac WFI (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	19.6
10645	AAE	IEEE 802.11ac WFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TOD (SC-FOMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11,96	
10647	AAG	LTE-TOD (SC-FOMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TOD	and the second s	19.6
10648	AAA		and the second se	11,96	±9.6
		CDMA2000 (1x Advanced)	CDMA2000	3,45	±9.6
0652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF	LTE-TOD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
0654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
0655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	7.21	±9.6
0658	AAB.	Pulse Waveform (200Hz, 10%)	Test	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	Pulsa Waveform (200Hz, 60%)	Test	2.22	±9.6
0662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	19.6
0670	AAA	Bluetooth Low Energy	Bluedooth	2.19	±9.6
0671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)			
0672	AAC		WLAN	9.09	±9.6
0673		IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
0674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
0675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.8
0676		IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
0677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
0878	AAC	IEEE 862.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
0679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
0680	AAG	IEEE 802.11 ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
0.681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
0682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	in the second
0683	AAG	IEEE 802.11ax (20 MHz, MCS0, 99pa duty cycle)			±9.8
0.684	AAC		WLAN	8.42	±9.6
		IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
0.685	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
0.695	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6

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10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duly cycle)	WLAN	8.45	±9.5
	AAC	IEEE 802 11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
88301	a subscription of the second		WLAN	8.55	±8.6
0689	AAC	IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.29	±9.6
0690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)		and the second sec	
0691	AAC	IEEE 802.11ax (20 MHz, MC58, 99pc duty cycle)	WLAN.	8,25	19.6
0692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
0693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WEAN	8.25	±9.6
0.694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WEAN	8.57	:19.6
0.695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WEAN	8.78	±9.6
0.696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
0.697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WEAN	8.61	±9.6
0698	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	8.82	±9.6
0700	AAC	IEEE 802,11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
0701	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	19.6
0702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	B.70	±9.6
0709	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	B.82	±9.6
0704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
		and the second	WLAN	B.69	±9.6
0705	AAC	IEEE 802 11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.66	±9.6
0706	AAC.	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.32	±9.6
0707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.55	
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	Contraction of the second		±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.8
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.57	±9.6
10713	AAG	IEEE 802.11ax (40 MHz, MC56, 99pc duty cycle)	WLAN	8.33	±9.6
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	B.26	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8,30	.±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8,48	±9,6
10718	AAC	IEEE 802,11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	19.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	19.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	19.8
10723	AAG	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	B.70	19.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	19.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	19.8
10726	AAC		WLAN	8.72	
and the second		IEEE 802.11 ax (80 MHz, MCS7, 90pc duty cycle)			±9.6
10.727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10729	AAG	IEEE 802.11ax (80 MHz, MCS10, 80pc duty cycle)	WLAN	8.64	±9.8
10730	AAG	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	B.42	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	19.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	B.25	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±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, MCS6, 99pc duty cycle)	WLAN	8.36	19.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	19.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	19.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	B.48	19.8
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	19,8
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	6.43	±9.8
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	19.6
10744	AAC	IEEE 802, 11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	and the second se	
10745	AAC.			9.16	±9,6
the second s	internal designation of	IEEE 802.11ax (160 MHz, MCG2, 80pc duty cycle)	WLAN	8.93	±9.8
10746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9,6
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	±9.6
10748	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6
10748	AAC	IEEE 802.11gx (160 MHz, MCS6, 90pc duty cycle)	WLAN	B.90	±9.8
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS8, 80pc duty cycle)	WLAN	8.82	±9.6
10752	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.8

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0753	AAG	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6
0754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8,94	± 9.6
0.755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	1,9.6
0756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
0757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8,77	±9.8
0758	AAG	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.6
0759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
0760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	太 登.日
0761	AAC	IEEE 802.11ax (190 MHz, MCS6, 99pc duly cycle)	WLAN	8.58	±9.6
0762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8,49	±9.6
0763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	主9.6
0764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
0.765	AAG	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8,54	±9.6
0766	AAC	IEEE 802.11ex (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
0767	AAG	5G NR (CP-OFDM, 1 RB, 5 MHz, OPSK, 15 kHz)	5G NR FR1 TOD	7,99	±9.6
0788	AAE	5B NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
0769	(JAA)	5G NR (CP-OFDM, 1 RB, 15 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8,01	±9.6
0770	AAE.	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, 25 MHz, QPSK, 15 kHz)	5G NR FRI TDD	8.02	±9.6
0772	AAE.	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
0773	,AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
0774	AAE	50 NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
0775	AAF	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
0776	AAE	5G NR (CP-OFDM, 50% R8, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
0777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QP5K, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
0778	AAE	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	19.6
0779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
0780	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
0781	AAF	SG NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
0782	AAE	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
0783	AAG	5G NR (CP-OFDM, 100% R8, 5MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.31	±9.6
0784	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.29	±9.6
0785	CAA	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.40	±9,6
0788	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10787	AAE	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
0789	AAF	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	19.6
10790	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz)	5G NR FR1 TDD 5G NR FR1 TDD	5.37 8.39	±9.6
10791	AAG	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
0792	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	19.6
0793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	53 NR FR1 TDD	7.95	±9.6 ±9.6
0794	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	7.82	+9.6
0795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	19.6
0798	AAE	5G NR (CP-OFDM, 1 R8, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	+9.6
0797	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	53 NR FR1 TDD	8.01	19.6
0798	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	19.6
0799	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	7.93	±9.6
0801	AAF	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
0802	AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	7.87	±9.6
6803	AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±0.0 ±9.6
0805	AAE	50 NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.34	19.6
0806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.37	±9.6
0808	AAE	5G NR (CP-OFDM, 50% R8, 30 MHz, QPSK, 30kHz)	5G NR FR1 TDD	8.34	19.6
0810	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, OPSK, 30 kHz)	5G NR FR1 TOD	8.34	±9.6
0812	AAF	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
0817	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
0818	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
0819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
0.820	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, OPSK, 30 kHz)	5G NR FR1 TOD	8.30	±9.6
0.825	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
0822	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
0823	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.36	19.6
0824	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	19.6
0825	AAF	5G NR (CP-OFDM, 100% RB, 00 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
0827	AAF	5G NR (CP-OFDM, 100% HB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
0828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	19.8

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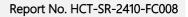


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0829	AAF	5G NR (CP-OFDM, 100% RB, 100 MHz; GPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9,6
10830	AAE	50 NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7,63	±9.6
10831	AAD	6G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
10832	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TOD	7.74	±9.6
10833	AAD.	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10834	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	50 NR FR1 TDD	7.75	±9.8
10.835	AAF.	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	±9.6
10837	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9.6
10839	AAF	5G NR (CP-OFDM, 1 RB, 80 MHz, OP5K, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10840	AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	56 NR FR1 TDD	7.67	±9.6
10841	AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, CPSK, 60 kHz)	5G NR FR1 TDD	7.71	±9.6
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
10844	AAE	50 NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	SG NR FR1 TDD	8.34	±9.6
10846	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60kHz)	5G NR FR1 TDD	8,41	±9.6
10854	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, GPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
	AAE	SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8,37	±9.6
10855		The second se		8.35	
10857	AAD	SG NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD		±9.6
10858	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	50 NR FR1 TDD	8.36	±9.6
10859	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	6G NR FR1 TDD	8.34	3.9±
10880	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	B,41	±9,6
10861	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	19.6
10863	AAF	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 50 kHz)	5G NR FR1 TDD	8.41	±9.6
10854	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10.865	AAF	50 NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TD0	8.41	±9.6
10896	AAF	5G NR (DFTs-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.68	±9.6
10868	AAF	5G NR (DFTs-OFDM, 100% RB, 100 MHz, QPSK, 33 kHz)	5G NR FR1 TDD	5.89	±9.6
10869	AAE	5G NR (DFTs-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10870	AAE	5G NR (DFTs-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
10871	AAE	5G NR (DFT-8-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	19.6
10.872	AAE	5G-NR (DFT-a-OFDM, 100% R8, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.52	±9.6
10873	AAE	5G NR (DFT-6-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10874	AAE	5G NR (DFT-8-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	+9.6
10875	AAE	6G NR (CP-OFDM, 1 R8, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10876	AAE	8G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDO	8.39	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	50 NR FR2 TDD	7.95	±9.6
10.878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	B.41	±9.6
10879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	19.6
10880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
10881	AAE	5G NR (DFT-e-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10.882	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
10.983	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.67	±9.6
10884	AAE	5G NR (DFT-8-OFDM, 100% RB, 50 MHz, 18QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.5
10885	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.81	±9.6
10886	AAE	5G NR (DFT++ OFDM, 100% RB, 50 MHz, 54QAM, 120 kHz)	5G NR FR2 TOD	6.65	±9.8
10987	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10888	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
10.889.	AAE	5G NR (CP-OFDM, 1 R8, 50 MHz, 16GAM, 120 kHz)	5G NR FR2 TDD	8.02	±9.6
10.990	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDO	8.40	19.6
10891	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	+9.6
10892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	SG NR FR2 TDD	8.41	+0.6
10897	AAE	5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 30kHz)	SG NR FR1 TDD	5.66	19.6
10898	AAC	5G NR (DFT-e-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	19.6
10899	AAB	5G NR (DFT-e-OFDM, 1 R8, 15 MHz, OPSK, 30 kHz)	56 NR FR1 TDD	5.67	19.6
		5G NR (DFTs-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 T00	5.68	±9.6 ±9.6
10902	AAC	SG NR (DFT=OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	5.68	±9.6
10903	AAD	5G NR (DFTs-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		and the second se
10904	AAC	SG NR (DFTs-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10905	AAD			5.68	±9.6
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, OPSK, 30 kHz)	50 NR FR1 T00	5.68	#9.6
		5G NR (DFT= OFDM, 1 AB, 80 MHz, OPSK, 30kHz)	5G NR FR1 TDD	5.68	±9.8
10907	AAE	5G NR (DFTs-OFDM, 50% RB, 5MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
80601	AAC	5G NR (DFTs-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10909	AAB	5G NR (DFTs-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
10910	AAC	5G NR (DFT++OFDM, 50% R8, 20 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	5.83	±9,6

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UID	Bev	Communication System Name	Group	PAR (dB)	Unc ^E k =
10911	AAE	5G NR (DFTs-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
0912	AAC	50 NR (DFT-e-OFOM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
0913	AAD	5G NR (DFTs-OFDM, 50% R8, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10914	AAC	SO NR (DFT+-OFDM, 50% R8, 50MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.85	±9.6
	AAD	SG NR (DFT-s-OFOM, 50% RB, 50 MHz, GPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10915	and some first		5G NR FR1 TDD	5.87	19.8
10916	AAD	5G NR (DFT-e-OFDM, 50% RB, 80 MHz, QPSK, 30kHz)	SG NR FR1 TDD	5.94	and the second se
10917	AAD	5G NR (DFT-6-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)		and the second second	#9.6
0918	AAE	50 NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
0919	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	#9.6
0920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAC	50 NR (DFT-6-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.84	±9.6
0922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,82	±9.6
0923	AAC	5G NR (DFT-e-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAD:	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QP5K, 30 kHz)	5G NR FR1 TDD	5;84	±9.6
10.925	AAC	5G NR (DF7's OFDM, 109% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6
10.926	AAD	5G NR (DFT-8-OFDM, 100% R8, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	#8.6
10927	AAD	5G NR (DFTs-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	(AAD	5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)	SG NR FR1 FDD	5.52	±9.6
10929	AAD.	5G NR (DFT-e-OFOM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 1 R8, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	3.8±
10931	AAC	5G NR (DFTs-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAC	5G NR (DFT-e-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	53 NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFT-s-OFDM, 1 RE, 30 MHz, QPSK, 15 kHz)	53 NR FR1 FDD	5.51	±9.6
10934	AAC	5G NR (DFTs-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	+9.6
10935	AAD	5G NR (DFTs-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAD	5G NR (DFTs-OFDM, 50% RB, 5MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAD	5G NR (DFTs-OFDM, 50% RB, 10MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15MHz, OPSK, 15kHz)	5G NR FR1 FDD	5.90	±9.6
10939	AAC	5G NR (DFT-e-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	SG NR FR1 FDD	5.82	19.6
10940	AAC	5G NR (DFT-e-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, S0MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.83	19.6
10942	AAC	5G NR (DFT-8-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	SG NR FR1 FDD	5.85	19.8
10943	AAD	5G NR (DFTs-OFDM, 50% R8, 50 MHz, QPSK, 15 kHz)	SQ NR FR1 FDD	5.95	a contract of the second second
10944	AAD	SG NR (DFTs-OFDM, 100% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAD	5G NR (DFTe-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		8.8
10947	AAC	and a second	the second se	5.83	±9.6
10948	AAG	SG NR (DFT=-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10.949	AAC	5G NR (DFT+-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
0950		SG NR (DFTs-OFDM, 100% R8, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10951	AAD	5G NR (DFT-8-OFDM, 100% R8, 50 MHz, QPSK, 15 kHz)	SG NR FR1 FDD	5.92	±9.6
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	50 NR FR1 FDD	8.25	±9.6
0953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9.6
0954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	#9.6
0965	AAA	5G NFI DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	B.42	±9.6
0956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
0957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
0958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	B.61	±9.6
0959	AAA	5G NR DL (CP-OFDM, TM 3-1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
0960	AAE	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
0961	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.35	±9.6
0962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
0963	AAC	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TOD	8.55	±9.6
0964	AAE	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)	50 NR FR1 TDD	8.29	±9.6
0965	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	±9.8
0966	AAB	53 NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.8
0.967	AAC.	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-GAM, 30 kHz)	5G NR FR1 TDD	9.42	19.6
0.968	AAD	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	19.6
0972	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11,59	±9.6
0973	AAD	5G NR (DFTs-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
0974	AAD.	5G NR (CP-OFDM, 100% R8, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.26	19.0
0978	AAA	ULLA BDR	ULLA	1.16	10.0
0979	AAA	ULLA HDR4	ULLA	8.58	19.6
0980	AAA	ULLA HDRB	ULLA		
	and the second se	ULLA HDRp4	ULLA	10.32	±9.6 ±9.6
0981	AAA	ULLA FIDIDA			

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10983	AAC	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 54-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAB	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.6
10985	AAC	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
10986	AAB	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	±9.6
10987	AAC	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 54-QAM, 30 kHz)	5G NR FR1 TDD	9,53	±9.6
10988	AAB	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 KHz)	5G NR FR1 TDD	9,38	±9.6
10989	AAC	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	19.6
10990	AAB	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.70	±9.6
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	±9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 KHz)	5G NR FR1 FDD	8.46	±9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 54-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)	53 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-DEDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FD0	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	SG NR FR1 FDD	8.68	±9.6
11013	AAB	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
11.014	AAB	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	AAB	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.5
11016	AAS	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.8
11017	AAB	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8.41	±9.6
11018	AAB	IEEE 802.11be (320 MHz, MC58, 99pc duty cycle)	WLAN	8.40	±9.8
11019	AAB	IEEE 802 11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
11020	AAB	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.8
11021	AAB	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±8.6
11022	AAB	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAB	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6
11024	AAB	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.6
11025	AAB	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	±9.6
11026	AAB	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	±9.6

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

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	CT yeonggi-do, Re	public of Korea		Certificate	No.	EUmm	9528_May	24
CALIBR	ATION C	ERTIFICATE		휜	a	Torrida.	11 AL	7
Object		EUmmWV4 - S	N:9528		SW	4.06.05	G 1 2024 0	18月 6.05
Calibration procedure(s)		QA CAL-02.v9, Calibration proc evaluations in a	edure for E-fie	CARGE CONTRACTOR D			ose near fie	ld
Calibration de	ite	May 17, 2024						
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Power sensor Spectrum ana		SN: 101244 SN: 101832		No. 0001A300 No. 4030-315			pr-25 an-25	
Ref. Probe EL		SN: 101832 SN: 9374		No. 4030-315 No. EUmm-9.			ec-24	
conception of the second sector		The second se	100 100 000 000 1	the substitution of	ALL A 74 AL		terner dar fr	

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Generator APSIN26G	SN: 669	28-Mar-17 (in house check May-23)	In house check: May-24
Generator Agilent E8251A	SN: US41140111	28-Mar-17 (in house check May-23)	In house check: May-24

	Name	Function	Signature
Calibrated by	Leit Klysner	Laboratory Technician	Seif Myr
Approved by	Sven Kühn	Technical Manager	Sa
This collection costiles	to shall not be concolined accept	in full without written approval of the lab	Issued: May 22, 2024

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





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

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 φ	φ rotation around probe axis
Polarization 8	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system
Sensor Angles	sensor deviation from the probe axis, used to calculate the field orientation and polarization
ĸ	Is the wave propagation direction

Calibration is Performed According to the Following Standards:

 a) 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 ∂ = 0 (f ≤ 900MHz in TEM-cell; f > 1800MHz; 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 (E²) 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, Rp, Inductance L and capacitors C, Cp).
- 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 / horn setup.

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Parameters of Probe: EUmmWV4 - SN:9528

Basic Calibration Parameters

	Sensor X	Sensor Y	Unc (k = 2)
Norm $(\mu V/(V/m)^2)$	0.01797	0.02046	±10.1%
DCP (mV) B	105.0	105.0	±4.7%
Equivalent Sensor Angle	-61.5	35.7	

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

Frequency GHz	Target E-Field V/m	Deviation Sensor X dB	Deviation Sensor Y dB	Unc (k = 2 dB
0.75	77.2	~0.33	-0.14	±0.43
1.8	140.4	-0.02	-0.03	±0.43
2.0	133.0	0.12	0.14	±0.43
2.2	124.8	-0.06	-0.05	±0.43
2.5	123.0	0.07	0.12	±0.43
3.5	256.2	-0.14	-0.22	±0.43
3.7	249.8	-0.00	-0.11	±0.43
6.6	74.7	-0.39	-0.39	±0.98
8.0	67.2	-0.14	-0.16	±0.98
10.0	66.2	0.04	0.05	±0.98
15.0	51.2	0.22	0.26	±0.98
26.6	112.6	0.11	0.16	±0.98
30.0	121.9	-0.02	-0.01	±0.98
35.0	121.3	0.06	-0.11	±0.98
40.0	102.3	-0.05	-0.16	±0.98
50.0	61.5	0.13	-0.01	±0.98
55.0	75.9	-0.03	-0.03	±0.98
60.0	80.5	-0.02	0.01	±0.98
65.0	77.1	0.15	0.14	±0.98
70.0	74.3	0.15	0.10	±0.98
75.0	74.8	0.00	-0.05	±0.98
75.0	96.6	0.01	-0.04	±0.98
80.0	95.4	-0.13	-0.09	±0.98
85.0	58.0	-0.06	-0.07	±0.98
90.0	84.0	0.01	0.01	±0.98
92.0	83.9	0.01	0.04	±0.98
95.0	76.2	-0.02	-0.03	±0.98
97.0	69.1	0.01	0.02	±0.98
100.0	66.9	0.11	0,12	±0.98
105.0	67.2	-0.20	-0.17	±0.98
110.0	78.1	0.11	0.04	±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%.

^B Linearization parameter uncertainty for maximum specified field strength.

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Parameters of Probe: EUmmWV4 - SN:9528

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	с	D dB	WR mV	Max dev.	Max Unc ^E k = 2
0	CW	X	0.00	0.00	1.00	0.00	109.6	±1.9%	±4.7%
		Y	0.00	0.00	1.00		90.7		
10352	Pulse Waveform (200Hz, 10%)	X	2.72	60.00	14.62	10.00	6.0	±1.6%	±9.6%
		Y	2.30	60.00	15.54		6.0		
10353	Pulse Waveform (200Hz, 20%)	X	1.86	60.00	13.51	6.99	12.0	±1.0%	±9.6%
		Y	1.59	60.00	14.49		12.0		
10354	Pulse Waveform (200Hz, 40%)	X	1.10	60.00	12.32	3.98	23.0	±1.5%	±9.6%
		Y	0.96	60.00	13.26		23.0	1	
10355	Pulse Waveform (200Hz, 60%)	X	0.65	60.00	11.65	2.22	27.0	±0.9%	±9.6%
		Y	0.60	60.00	12.47		27.0		
10387	OPSK Waveform, 1 MHz	X	1.15	60.00	12.26	1.00	22.0	±1.3%	±9.6%
	CONTRACTOR DE CONTRACTOR DE LA CONTRACTÓRIA DE CONTRACTÓRIA DE LA CONTRACTÓRIA DE	Y	1.18	60.00	12.27		22.0		
10368	QPSK Waveform, 10 MHz	X	1.24	60.00	12.10	0.00	22.0	±0.8%	±9.6%
	Construction and anti-section complete	Y	1.29	60.00	12.10	10,440,3563	22.0	0.023830,85	
10396	64-QAM Waveform, 100 kHz	X	3.40	66.23	16.35	3.01	17.0	±0.6%	±9.6%
	A SHERE AND A CHARGE AND A SHERE AND A	Y	2.75	62.78	14.89	0.043044	17.0		0000000
10399	64-QAM Waveform, 40 MHz	X	2.04	60.00	12.56	0.00	19.0	±0.8%	±9.6%
		Y	2.07	60.00	12.59		19.0		ostransi
10414	WLAN CCDF, 64-QAM, 40 MHz	X	3.14	60.00	12.97	0.00	12.0	±1.0%	±9.6%
		Y	3.16	60.00	13.00	201210200	12.0	1111111111	

Note: For details on UID parameters see Appendix

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

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Parameters of Probe: EUmmWV4 - SN:9528

Calibration Results for Linearity Response

Frequency GHz	Target E-Field V/m	Deviation Sensor X dB	Deviation Sensor Y dB	Unc (k = 2) dB
0.9	50.0	-0.03	0.02	±0.2
0.9	100.0	-0.03	-0.01	±0.2
0.9	500.0	-0.00	-0.01	±0.2
0.9	1000.0	0.02	0.02	±0.2
0.9	1500.0	0.01	0.01	±0.2
0.9	2100.0	-0.01	-0.01	±0.2

Sensor Frequency Model Parameters (750 MHz - 55 GHz)

	Sensor X	Sensor Y
Β (Ω)	68.28	86.08
Rp (Ω)	106.68	119.82
L (nH)	0.07057	0.07991
C (pF)	0.1962	0.2296
Cp (pF)	0.0776	0.0698

Sensor Frequency Model Parameters (55 GHz - 110 GHz)

	Sensor X	Sensor Y
Π (Ω)	37.28	25.43
Rp. (Ω)	160.50	102.36
L (nH)	0.08064	0.05122
C (pF)	0.0586	0.0970
Cp (pF)	0.0664	0.1000

Sensor Model Parameters

	C1 IF	C2 fF	и V ⁻¹	T1 msV ⁻²	T2 ms V ⁻¹	T3 ms	T4 V-2	T5 V-1	Т6
x	50.8	366.42	33.34	0.92	6.83	4.99	0.00	1.62	1.01
у	50.4	365.93	33.82	0.92	6.25	5.03	0.00	1.88	1.01

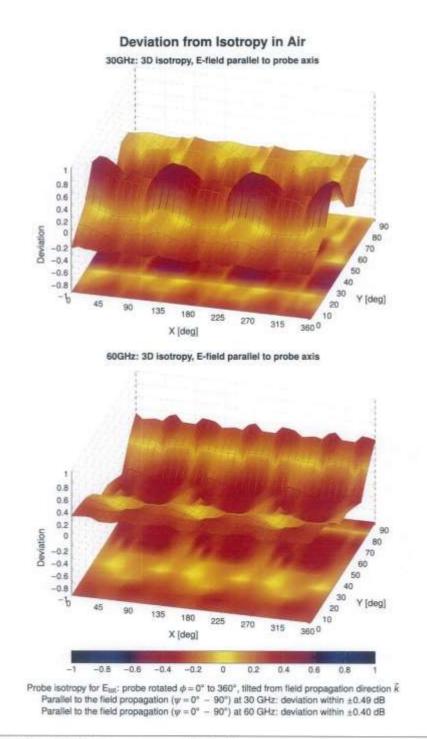
Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle	67.0°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	320 mm
Probe Body Diameter	8 mm
Tip Length	23 mm
Tip Diameter	8.0 mm
Probe Tip to Sensor X Calibration Point	1.5 mm
Probe Tip to Sensor Y Calibration Point	1.5 mm

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Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k =
Ű,		CW	CW	0.00	±4.7
0010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
0011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
0012	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
6013	CAB	IEEE 802.11p WFI 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9,46	±9.6
0021	DAG	GSM-FDD (TDMA, GMSK)	GSM	9,39	±9.6
0.023	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
0025	DAC	EDGE-FDD (TOMA, 8PSK, TN 0)	GSM	12.62	±9.6
0026	DAG	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
0027	DAC		1.112.12)		-
0028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2) GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	4,80	±9.6
	DAC		GSM	3.55	±9.6
0.029	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6
0030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
0031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
0032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetoath	1.16	±9.6
0033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
0034	CAA.	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
0635	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
0036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
0.037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
0038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
0.039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
0042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PU4-DQPSK, Halfrate)	AMPS	7.78	±9.6
0044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
0048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	19.6
0.056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	19.6
8200	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM		
0.059	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps)		6.52	±9.6
00000	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.12	±9.6
	CAB		WLAN	2.83	±9.6
10061		IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
10.062	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	19.6
10063	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10.065	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
660.01	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	19.6
10067	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.5
690.01	CAE	IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	:29.6
10.069	CAE	IEEE 802.11a/h WiFI 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	19.6
10:071	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
0072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WFI 2.4 GHz (DSSS/OFDM, 24 Mops)	WLAN	10.30	±9.6
10075	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.30	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	19.6
0077	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	
10081	CAB	CDMA2000 (1xRTT, RC3)	110000000000000000000000000000000000000		±9.6
0082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	COMA2000	3.97	±9.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	AMPS	4,77	±9.6
10090	CAC	UMTS-FDD (HSDPA)	GSM	6.56	±9.6
10098	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
0099	DAC	International and the Analysis of the Party	WCDMA	3.98	±9.6
5.5.5.6.1.		EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
0100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
0101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
0102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	£9.6
0103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TOD	9.29	±9.6
0104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TOD	9.97	19.6
0105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TOD	10.01	±9.6
0108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
0109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
0110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	19.6
0111	CAH	LTE-FOD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	19.6
1000		and the second reaction and a second second second	LIEFUU	0,44	19.6

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10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FOD	6.59	±9.6
10113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10114	CAE	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	29.6
0115	CAE	IEEE 802 11n (HT Greenfield, 81 Mbps, 18-QAM)	WLAN	8.46	±9.6
0116	CAE	IEEE 802 11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
0117	CAE	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
10118	CAE	IEEE 802 11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	29.6
0119	CAE	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
0141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
0142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QP5K)	LTE-FDD	5.73	±9.6
0143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
10144	CAF	LTE-FD0 (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
0147	CAG	LTE FED (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	19.6
0149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
0150	CAF		LTE-FOD		and the second sec
and desired as	-	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)		6.60	±9.6
0151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TOD	9.28	±8.6
0152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	19.6
0153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TOD	10.05	±9.6
0154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	19.8
0155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6,43	±9.6
0156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
0157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	19.6
0159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
0160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FOD	5.82	±9.6
0161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FOD	6.43	±9.6
0162	CAF	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, QPSK)	LTE-FDD	5.46	±9.6
0167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±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, 20 MHz, 18-QAM)	LTE-FDD	6.52	±9.6
0171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20MHz, 64-QAM)	LTE-FDD	6.49	±9.6
0172	CAH	LTE-TDO (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9:48	±9.6
0174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
0175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDO	5.72	±9.6
0176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	29.6
0177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDO	5.73	±9.6
0178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
0179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FD0	6.50	±9.6
0.180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
0181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6
0182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16 QAM)	LTE-FDD	6.52	±9.6
0183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	8.50	±9.6
0184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDO	5.73	±9.6
0185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
0186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	19.6
0187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
0188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
0189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
0193	and the second second	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN		the second s
0194	CAE	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.09	19.8
0195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.12	±9.6
0195	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN		±9.6
0197	CAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)		8:10	19.6
0195	CAE	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN MLAN	8.13	±9.6
0219	CAE	and the second se	WLAN	8.27	±9.6
0220	CAE	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.03	±9.6
And the owner where the			WLAN	8.13	±9.6
0221	CAE	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
0222	CAE	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
0223	CAE	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6
0224	CAE	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6

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10.225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10.226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 18-QAM)	LTE-TDD	9.49	±9.6
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TOD	10.26	±9.6
10228	CAC	LTE-TDD (SC-FOMA, 1 RB, 1,4 MHz, QPSK)	LTE-TDD	9.22	±9.6
0.229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0.230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
0231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
0232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TOD	9.48	±9.5
0233	CAH	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TOD	10.25	±9.6
0234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TOD	9.21	±9.5
0,235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TOD	9.48	±9.6
0.236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
0237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TOD	9.21	±9.6
0238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	19.6
0:239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
0.240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-TOD	9.21	±9.6
0241	CAC	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TOD	9.82	±9.6
0242	CAC	LTE-TOD (SC-FDMA, 50% BB, 1.4 MHz, 64-QAM)	LTE-TOD	9.86	±9.6
0243	CAC	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6
0244	CAE	LTE-TOD (SC-FDMA, 50% AB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
0.245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
0246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
0247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
0248	CAH	LTE-TDD (SC-FOMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6
0249	CAH	LTE-TDO (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TOD	9.29	±9.6
0250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	19.6
10252	CAH	LTE-TDO (SC-FDMA, 50% RB, 10 MHz, OPSK)	LTE-TDD	9.24	19.6
10253	CAG	LTE-TDD (SC-FDMA, 50% R8, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6
0254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)	LTE-TDD	10.14	±9.6
0.255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 18-QAM)	LTE-TDD	9.96	29.6
10257	CAG	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10258	CAC	LTE-TDD (SC-FDMA, 100% FB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
10.259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	19.6
10.261	CAE	LTE-TDD (SC-FDMA, 100% RB. 3 MHz, QPSK)	LTE-TOD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16 QAM)	LTE-TDD	9.83	±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	19.6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	19.6
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 54-QAM)	LTE-TDD	10.07	±9.6
10267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	19.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16 QAM)	LTE-TDD	10.06	±9.6
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6
10270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TOD	9.58	
10:274	CAC	UMTS-FDD (HSUPA, Subtrist 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6 ±9.6
10.275	CAC	UMTS-FDD (HSUPA, Subtent 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
0277	CAA	PHS (OPSK)	PHS	and the second se	and the second se
0278	CAA	PHS (QPSK, 8W 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
0279	CAA	PHS (QPSK, BW 884 MHz, Roloff 0.38)	PHS	11.81	±9.6
0850	AAB	CDMA2000, RC1, SO55, Full Rate	the second se	12.18	±9.6
0.291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.91	±9.6
0292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000 CDMA2000	3.46	±9.6
0293	AAB	CDMA2000, RC3, SO3, Full Rate	1000 C C C C C C C C C C C C C C C C C C	3.39	£9.6
0295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	3.50	±9.6
0295	AAE	LTE-FDD (SC-FOMA, 50% RB, 20 MHz, QPSK)	CEMA2000	12.49	±9.6
0298	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD LTE-FDD	5.81	±9.6
0299	AAE	LTE-FDD (oc-FDMA, 50% RB, 3 MHz, GPSK) LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)		5.72	±9.6
0.299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 15-QAM) LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FOD	6.39	±9.6
desident and the second second	AAA		LTE-FOD	6.63	±9.6
10301	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WIMAX	12.03	±9.6
	and the second sec	IEEE 802 16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.57	±9.6
0303	AAA	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 54QAM, PUSC)	WIMAX	12.52	±9.6
0304	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10 MHz, 64QAM, PUSC)	WIMAX	11.86	±9.0
0305	AAA	IEEE 802.16e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WIMAX	15.24	19.6
0305	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WIMAX	14.67	+9.6

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10307	AAA	IEEE 802 16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	19.6
0308	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WIMAX	14.45	±9.6
0309	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WIMAX	14,58	±9.6
0310	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WIMAX	14.57	±9.6
0311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15MHz, QPSK)	LTE-FOD	6.06	±9.6
0313	AAA	DEN 13	IDEN.	10.51	±9.6
0314	AAA	DEN16	IDEN	13.48	±9.6
0315	AAB	IEEE 802,11b WIFI 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
0316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	+9.6
0317	AAE	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
0352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
0353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
0354	AAA	Pulse Waveform (200Hz, 40%)	Ganaric	3.98	19.5
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	19.6
	AAA		Generic	0.97	19.6
0356	a second second by	Pulse Waveform (200Hz, 80%)		5.10	±9.6
0387	AAA	OPSK Waveform, 1 MHz	Generic		
0388	AAA	OPSK Waveform, 10 MHz	Generic	5.22	±9.6
0396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
0.399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
0.400	AAF	IEEE 802.11ac WIFI (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
0.401	AAF	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
0.402	AAF	IEEE 802.11ac WIFI (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
0403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3,76	±9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6
10410	HAA.	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10417	AAD	IEEE 802.11a/h WIFI 5 GHz (OFOM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	±9.6
10419	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	±9.6
10422	AAD	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	29.6
10423	AAD	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	±9.6
10424	AAD	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6
10425	AAD	IEEE 802.11n (HT Greenfield, 15Mbps, BPSK)	WLAN	8.41	±9.6
10426	AAD	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	19.6
10427	AAD	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6
10430	AAE	LTE-FDD (OFDMA, 5MHz, E-TM 3.1)	LTE-FDD	AT Martin	and the second se
10431	AAE	LTE-FDD (OFDMA, 10MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
Contractor in the	AAD	In which the stand of the stand	and the state of t	8.38	±9.6
10432		LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDO	8.34	±9.6
10433	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA.	8.60	±9.6
10435	AAG	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10.447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDO	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9.6
10450	AAD	LTE-FDD (OFOMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±8.6
0453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
0.456	CAA	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.6
0457	AAB	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6
0.458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
0.459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10.460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6
10461	AAC.	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframew2.3,4,7,8,9)	LTE-TDD	7.82	±9.6
0.462	AAC	LTE-TOD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	±9.6
0.463	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)	LTE-TDD	8.56	±9.6
0.464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
10465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UI, Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	19.6
10.466	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD		
10467	AAG	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK, UL Subframe-2,3,4,7,8,9)		8.57	±9.8
10-468	AAG	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10.469	AAG	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	8.32	±9.6
10470	AAG		LTE-TOD	8.56	±9.6
10470	and a standard sector	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
114/1	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6

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0472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8.9)	LTE-TDD	8.57	±9.6
0473	AAF	LTE-TDD (SC-FDMA, 1 RB, 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 Subframe+2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
0475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TDD	8.57	±9.6
10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	±9.6
0478	AAG	LTE TDD (SC-FDMA, 1 RB, 20MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
0479	AAC	LTE-TDD (SC-FOMA, 50% RB. 1.4 MHz, QPSK, UL Subframe=2.3.4.7.8.9)	LTE-TDD	7.74	±9.8
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	±9.6
0.481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UI, Subframe=2,3.4,7.8.9)	LTE-TDD	8.45	±9.6
10482	AAD	LTE-TDD (SC-FOMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7,71	19.6
10.483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2.3,4,7,8.9)	LTE-TDD	8.39	±9.6
0484	AAD	LTE-TOD (SC-FDMA, 50% RB, 3MHz, 54-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.47	19.6
10.485	AAG	LTE-TOD (SC-FOMA, 50% RB, 5 MHz, OPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
10.486	AAG	LTE-TOD (SC-FDMA, 50% RB, 5MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TOD	8.38	19.6
	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-GRM, UL Subframe-2,3,4,7,6,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe-2,3,4,7,8,9)	LTE-TDD	8.60	19.6
10.487	1.		LTE-TOD	7.70	±9.6
10.488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, OPSK, UL Subtrame=2,3,4,7,8,9)	and the second se		
10 489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.31	19.6
10490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8,54	±9.6
10.491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	7.74	19.6
0482	AAF	LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	±9.6
10493	AAF.	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.55	±9.8
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10495	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	19.6
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10497	AAC	LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
0.498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	:#9.6
0499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD	7.67	±9.6
0501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8,44	±9.6
0502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	±9.6
10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD	7.72	±9.6
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	19.8
0505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.54	±9.6
10508	AAG	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subhame=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
0507	AAG	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6
10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subtrame=2,3,4,7,6,9)	LTE-TOD	8.55	±9.6
10509	AAF	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD	7.99	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	19.6
10511	AAF	LTE-TOD (SC-FDMA, 100% RE, 15MHz, 64-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TDO	8.51	±9.6
10512	AAG	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
0513	AAG	LTE-TDD (SC-FDMA, 100% RB; 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	±9.6
0514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8.9)	LTE-TOD	8.45	±9.6
0515	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mops, 99pc duty cycle)	WLAN	1.58	29.6
0516	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
0517	AAA	IEEE 807.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
0518	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	
0519	AAD	IEEE 802.11a/h WFI 5 GHz (OFDM, 5 Mbps, 99pc duty cycle)			2.9.5
10520	AAD		WLAN	8,39	19.6
0520	AAD	IEEE 802.11a/h WFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
	AAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
0522	and the designed of	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8,45	±9.6
0523	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	19.6
0524	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6
0525	AAD	IEEE 802.11ac WIFI (20 MHz, MCS0, 99pc duty cycle)	WLAN	8,36	±9.6
0526	AAD	IEEE 802.11ac WIFI (20 MHz, MCS1, 99pc duty cycle)	WLAN	8,42	±9.6
0527	and the second se	IEEE 802.11ac WIFI (20 MHz, MC52, 99pc duty cycle)	WLAN	8.21	±9.6
0.528	AAD	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6
0529	and the second	IEEE 802.11ac WIFI (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.36	±9.6
0531	AAD	IEEE 802.11ac WIFi (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.43	±9.6
0532	AAD	IEEE 802.11ac WIFI (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.5
10533	AAD	IEEE 802.11ac WIFI (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6
0534	AAD	IEEE 802.11ac WIFI (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±9.6
0535	AAD	IEEE 802.11ac WIFI (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6
10538	AAD	IEEE 802.11ac WIFI (40 MHz, MCS2, 99pc duty cycle)	WLAN	8,32	±9.6
0537	AAD	IEEE 802.11ac WIFI (40 MHz, MCS3, 99pc duty cycle)	WLAN	8,44	±9.6
0538	AAD	IEEE 802.11ac WiFI (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.54	±9.5
0540	AAD	IEEE 802.11ac WIFI (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.39	±9.6

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0541	AAD	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6
0542	AAD	IEEE 802.11ac WIFI (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.6
0543	AAD	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
0544	AAD	IEEE 802, 11ac WIFI (80 MHz, MCS0, 99bc duty cycle)	WLAN	8.47	±9.6
10545	AAD	IEEE 802.11ac WIFI (80 MHz, MCS1, 98pc duty cycle)	WLAN	8.55	19.6
0546	AAD	IEEE 802.11ac WIFI (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
10547	AAD	IEEE 802.11ac WIFI (86 MHz, MCS3, 99bc duty cycle)	WLAN	8.49	19.6
10548	AAD	IEEE 802.11ac WIFI (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
10550	AAD	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
10551	AAD	IEEE 802.11ac WIFI (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	19.6
10552	AAD	IEEE 802.11ac WiFI (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	19.6
10553	AAD	IEEE 802.11ac WIFI (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	
10554	AAE	IEEE 802.11ac WIFI (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
10555	AAE	IEEE 802.11ac WIFI (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	19.6
10556	AAE	IEEE 802.11ac WIFI (160 MHz, MCS2, 99pc duty cycle)	and the second sec	and the second s	±9.6
10557	AAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.50	19.6
10558	AAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	6.52	±9.6
a province and	AAE		WLAN	8.61	±9.8
10560		IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6
10561	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.6
10562	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	\$9.6
10563	AAE	IEEE 802.11ac WFI (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA.	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	A,A,A	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 98pc duty cycle)	WLAN	8.00	±9.6
10568	A,A,A	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10570	AAA.	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10572	AAA.	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	#9.6
10575	AAA.	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	19.6
10576	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10577	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFOM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10581	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802 11g WIFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
0583	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN.	8.59	±9.6
10584	AAD	IEEE 802.11a/h WiFI 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10585	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
0586	AAD	IEEE 802.11a/h WIFI 5 GHz (OFOM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
0587	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
0588	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
0.588	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	19.5
0590	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	19.6
0591	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	19.6
0592	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	19.6
0593	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	19.6
0594	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	
0.595	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	19.6
0596	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
0597	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS8, 90pc duty cycle)	WLAN		±9.6
0598	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	29.6
0599	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)		8,50	±9.6
0600	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	8.6
0601	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	:9.6
0602	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.82	±9.6
0602	AAD		WLAN	8.94	±9.6
0604	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
0.605	and the second second	IEEE 802 11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8.76	29.6
and the second s	GAA	IEEE 802 11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6
0606	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
0607	AAD	IEEE 802.11ac WiFi (20 MHz, MCSD, 90pc duty cycle)	WLAN	8.64	±9.6
0.608	AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle)	WLAN	8,77	±9.6

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10609	AAD	IEEE 802.11ac WIFI (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
10610	AAD	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAD	IEEE 802.11ac WiFI (20 MHz, MCS4, 90pc duty cycle)	WLAN	8,70	19.6
10612	AAD	IEEE 802, 11ao WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10613	AAD	IEEE 802 11ac WiFi (20 MHz, MC56, 90pc duty cycle)	WLAN	8.94	±9.6
10614	AAD	IEEE 802.11ac WFI (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
10615	AAD	IEEE 802 11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10616	AAD	IEEE 802 11ac WIFI (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAD	IEEE 802 11ac WIFI (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	AAD	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	AAD	IEEE 802 11ac WIFI (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10620	AAD	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAD	IEEE 802.11ac WIFI (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAD	IEEE 802.11ac WIFI (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
10623	AAD	IEEE 802.11ac WFI (40 MHz, MCS3, 90pc duty cycle)	WLAN	0.82	±9.6
10624	AAD	IEEE 802.11ac WIFI (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	
10625	AAD	IEEE 802 11ac WFI (40 MHz, MC38, Supe duty cycle)			29.6
10626	AAD	a serie of the second se	WLAN	8.96	±9.6
of an option of the state of the	and a local bar	IEEE 802.11ac WIFi (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAD	IEEE 802.11ac WIFI (80 MHz, MCS1, 90pc duty cycle)	WLAN	9.88	±9.6
10628	AAD	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8,71	±9.6
10629	AAD	IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10630	AAD	IEEE 802.11ao WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
10631	AAD	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6
10832	AAD	IEEE 802.11ac WIFI (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10633	AAD	IEEE 802.11ac WIFI (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
10634	AAD	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
10635	AAD	IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
10636	AAE	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10637	AAE	IEEE 802.11ac WIFI (160 MHz, MCS1, 90pc duty cycle)	WLAN	8,79	±9.6
10638	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
10639	AAE	IEEE 802.11ac WIFI (160 MHz, MCS3, 90pc duty cycle)	WILAN	8.85	±9.6
10640	AAE	IEEE 802.11ac WiFI (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.96	±9.6
10641	AAE	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
10.642	AAE	IEEE 802.11ac WIFI (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAE	IEEE 802.11ac WIFI (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAE	IEEE 802.11ac WIFI (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAE	IEEE 802 11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2.7)	LTE-TOD	11.96	±9.6
10547	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TOD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	6.91	±9.8
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10655	AAF	LTE-TDD (OFDMA, 20MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	7.21	19.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	19.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	29.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
10661	AAB	Pulse Waveform (200Hz, 50%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	the second s
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	the second se	29.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	9.09	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)		8.57	±9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.0
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	1.0000000000000000000000000000000000000	8,74	±9.6
10676	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.8
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle) IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.77	±9.6
10678	AAC		WLAN	8.73	3.9±
and an internal of	and the second second	IEEE 802 11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	3.6±
10.679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8,89	±9.6
10.680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10685	AAG	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10686	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WEAN	8.28	±9.6

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0687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
6688	AAC	IEEE 802 11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	19.6
0689	AAC	IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6.
0690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
0691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WEAN	8.25	±9.6
0692	AAG	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
0.693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
0694	AAG	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
0695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.8
0696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
0.697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
0698	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	8.82	±9.6
0700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
	AAC	the second se	WLAN	8.86	±9.6
0701	AAC	IEEE 802 11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.70	19.6
0702		IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN		
0703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)		8.82	±9.6
0704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
0708	AAC	IEEE 802.11ax (40 MHz, MCS10, 80pc duty cycle)	WLAN	8.69	±9.6
0706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
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
0709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
0710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
10711	AAC	IEEE 602.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
0712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6
0713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6
0714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
10715	AAC	IEEE 802.11ex (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.46	±9.6
0716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8.48	±9.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6
10722	AAC	IEEE 802.11ex (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8:70	19.6
10724	AAG	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.5
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	19.6
10727	AAC	IEEE 802.11ax (80 MHz, MCSR, 90pc duty cycle)	WLAN	8.66	19.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	and the second se
0729	AAG			10.12	±9.6
	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
10730	and the state of t	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10732	AAC	IEEE 802.11 ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
10733	AAG	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
0734	AAG	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6
10735	AAG	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±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, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	±9.6
0740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
0741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
10742	AAG	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
0743	AAG	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	±9.6
0745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	\$9.6
10746	and the second se	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	+9.6
10748	and the second se	IEEE 802.11ax (160 MHz, MCSS, 90pc duty cycle)	WLAN	8.93	±9.6
10749		IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	19.5
10751	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	
0752	and the state of t	IEEE 802.11ax (160 MHz, MCSB, 90pc duty cycle)	WLAN	and the second se	±9.6
10 X 5000	1.0666	Turner over Link Floo whet worder onthe double double	- NCCAIN	8.81	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E 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 duly 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, 98pc duty cycle)	WLAN	8.77	19.6
10757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6
0758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.5
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
0760	AAC	IEEE 802.11ax (160 MHz, MCSS, 99pc duty cycle)	WLAN	8.49	±9.6
10761	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	±9.6
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	+9.6
0765	AAC	IEEE 802 11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	19.6
0766	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
0767	AAG	5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 15kHz)	5G NR FR1 TDD	7.99	±9.6
0768	AAE	5G NR (CP-OFDM, 1 R8, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	19.6
0769	AAD	5G NR (CP-OFOM, 1 RB, 15MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.01	±9.6
0770	AAE	5G NR (CP-OFDM, 1 R8, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	
0771	AAD	5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 15kHz)			19.6
0772	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
0773	AAF	SG NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
0774	AAE	SG NR (CP-OFDM, 1 HB, 50 MHz, QFSR, 15 KHz) SG NR (CP-OFDM, 1 HB, 50 MHz, QFSK, 15 KHz)	5G NR FR1 TDD	8.03	±9.6
0775	AAF	SG NR (CP-OFDM, 1 HB, SOMHZ, GPSK, 15kHz)	SG NR FR1 TDD	8.02	19.6
0776	AAE		5G NR FR1 TDD	8.31	±9.6
0777	AAC	SG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	2,9,6
	A CONTRACTOR OF	5G NR (CP-OFOM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
0778	AAE	5G NR (CP-OFDM, 50% R8, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
0779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
0780	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	SG NR FR1 TOD	8.38	±9.6
0781	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	SG NR FR1 TDD	8.38	±9.6
0782	AAE	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	SG NR FR1 TDD	8.43	±9.6
0783	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
0784	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	±9.6
0785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
0786	AAE	50 NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
0787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	土豆.8
0788	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
0789	AAF	SG NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	注泉,后
0790	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,39	±9.6
0791	AAG	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
0792	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	29.6
0793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QP5K, 30 KHz)	5G NR FR1 TDD	7.95	19.6
0794	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	7.82	±9.6
0795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	7,84	±9.6
0.796	AAE	5G NR (CP-OFDM, 1 R8, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	7.82	±9.6
0797	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	29.6
0798	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
0799	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
0801	AAF	5G NR (CP-OFDM, 1 R8, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
0.805	AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
0803	AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
0805	AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.94	±9.6
0806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	19.6
0.809	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	19.6
0810	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
0812	AAF	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 T00	8.35	±9.6
0817	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	19.6
8180	AAE	5G NR (CP-OFDM, 100% RB, 10.MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	29.6
0819	AAO	5G NR (CP-OFDM, 100% R8, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
0820	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.30	19.6
0.821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.41	29.6
0.822	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
0823	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	
0824	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, GPSK, 30 kHz)	5G NR FR1 TDD	the second s	±9.6
0825	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
0827	AAF	5G NR (CP-OFOM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
0828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	the second states and states are strengthen and the second states are strengthen and the second states are strengthen and the second states are strengthen at the second state	8.42	±9.6
	in the second second	and a series of the result of	5G NR FR1 TDD	8.43	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k =
10829	AAF	5G NR (CP-OFDM, 100% R8, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6
0830	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7,63	19.6
0831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TOD	7.73	+9.6
0832	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TOD	7.74	19.8
0833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	+9.6
0834	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9.6
0835	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
0836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	±9.6
0837	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9.6
0839	AAF	5G NR (CP-OFDM, 1 RB, 80 MHz, QP5K, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
0840	AAE	50 NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	±9.6
0841	AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	±9.6
0843	CAA	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	19.6
0844	AAE	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
0846	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
0854	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
0855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	19.6
0856	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
	AAD	and a second the second is a second	5G NR FR1 TDD	8.35	
0857	AAE	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6 ±9.6
0858		5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 80 kHz)	5G NR FR1 TD0	11000	
0.859	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)		8.34	±9.6
0.860	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 80 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.41	±9.6
0861	and the second second	5G NR (CP-OFDM, 100% RB, 60 MHz, OPSK, 60 kHz)	and the second design of the s	21.12	±9.6
10863	AAF	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10865	AAF	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8,41	±9.6
10866	AAF	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10868	AAF	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
10869	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	6.75	±9.6
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	19.6
10-871	AAE	5G NR (DFT-6-OFDM, 1 RB, 100 MHz, 18QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TOD	6.52	±9.6
10873	AAE	5G NR (DFT-6-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6,61	±9.6
10874	AAE	5G NR (DFT:s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TOD	6.65	±9.6
10875	AAE	5G NR (CP-OFDM, 1 R8, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7,78	±9.6
10876	AAE	5G NR (CP-OFOM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	土9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7,95	±9.6
10.878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8,41	±9.6
10879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
10880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
10881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10882	AAE	5G NR (DFT:s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
10883	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
10.884	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9,6
10.885	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10886	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10.887	AAE	5G NR (CP-OFDM, 1 R8, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10.888	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TOD	8.35	±9.6
10889	AAE	5G NR (CP-OFOM, 1 R8, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TOD	8.02	±9.6
10890	AAE	5G NR (CP-OFOM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TOD	8.40	±9.6
10.991	AAE	5G NR (CP-OFOM, 1 R8, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	19.6
10892	AAE	5G NR (CP-OFOM, 100% R8, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TOD	8.41	±9.6
10897	AAE	5G NR (DFTs-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.66	±9.6
0898	AAC	5G NR (DFT-e-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10899	BAA	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
0900	AAC	5G NR (DFT-e-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10901	AAB	5G NR (DFT+-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10902	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10903	GAA	5G NR (DFT-s-OFDM, 1 R8, 40 MHz, QPSK, 30 kHz)	56 NR FRI TOD	5.68	±9.6
10904	AAC	5G NR (DFT-e-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	SG NR FRI TOD	5.68	±9.6
10906	AAD	5G NR (DFT-s-OFDM, 1 R8, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	19.6
10907	AAE	5G NR (DFT-s-OFDM, 50% R8, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
10908	AAC	5G NR (DFT's OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	19.6
10909	AAB	5G NR (DFT-e-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	19.6
		and the second se	and the second states	0.00	7.0.0

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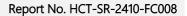


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UID	Rev	Communication System Name	Group	PAR (dB)	Uno ^E k =
10911	AAB	5G NR (DFT=-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10912	AAC	5G NR (DFT=-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAD	5G NR (DFT= OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10914	AAC	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAD	5G NR (DFT-9-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	AAD	5G NR (DFTs-OFDM, 50% RB, 80 MHz, QPSK, 33 kHz)	5G NR FR1 TDD	5.87	19.6
10917	AAD	5G NR (DFTs-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FRI TDD	5.94	±9.6
and the second second		and the second		5.86	
10918	AAE	5G NR (DFT=OFDM, 100% RB, 5MHz, QPSK, 30kHz)	5G NR FR1 TOD		±9.6
10919	AAC	5G NR (DFTs-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	19.6
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
0921	AAC	5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAG	5G NR (DFT=:-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAD	56 NR (DFT-s-OFDM, 100% RB, 40 MHz, QP5K, 30 kHz)	5G NR FR1 TDD	5.84	±9.5
10925	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6
10.926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
0927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10.928	AAD	5G NR (DFT=s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAD	5G NR (DFT=-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
0.930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
0931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
0932	AAC	5G NR (DFT-e-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FRI FDD	5.51	±9.6
0934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FOD	5.51	±9.6
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.61	±9.6
0936	AAD	5G NR (DFT-6-OFDM, 50% RB, 5MHz, OPSK, 15kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	127420131431170		
0938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.77	±9.6
	and the second		5G NR FR1 FDD	5.90	±9.6
0939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
0940	AAC	5G NR (DFT= OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
0941	AAC	5G NR (DFT-a-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
0942	AAC	SG NR (DFTs-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	50 NR FR1 FDD	5.85	±9.6
0943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10964	AAD	5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 15kHz)	53 NR FR1 FDD	5.81	±9.6
10945	AAD	5G NR (DFT=-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.5
10948	AAC	5G NR (DFT-e-DFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10.949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	19.6
0.950	AAC	5G NR (DFT-0-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	19.6
0.951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10.952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.6
0953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	19.6
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz; 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	29.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)	the state of the second second second second second	the local data and the local dat	
0957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD 5G NR FR1 FDD	8.14	±9.6
0958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-CAM, 30 kHz)	the second s	8.31	±9.6
0959	AAA		5G NR FR1 FDD	8.61	129,6
	AAE	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	29.6
0960		5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
0961	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
0962	BAA	SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
0963	AAC	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
0964	AAE	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
		5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	±9.6
0966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 84-QAM, 30 kHz)	5G NR FR1 TDD	9.55	主9.6
0967	AAC	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 54-QAM, 30 kHz)	5G NR FR1 TDD	9.42	±9.6
0968	AAD	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	±9.6
0972	AAC	5G NR (CP-OFDM, 1 R8, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TOD	11.59	±9.6
0973	AAD	5G NR (DFT-s-OFDM, 1 R8, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
0974	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TOD	10.28	19.6
0978	AAA	ULLA BOR	ULLA		
0979	AAA	ULLA HDR4	ULLA	1.16	±9.6
0980	AAA	ULLA HDR8	11 March 114	8,58	±9.6
0.981	AAA	ULLA HDRp4	ULLA	10.32	±9,6
0982	and desired and	and have a feature of the second s	ULLA	3.19	±9.6
La contrat.	AAA	ULLA HDRp8	ULLA	3.43	±9.6

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May 17, 2024

UID	Rev	Communication System Name	Group	PAR (dB)	UncE k = 3
10983	AAG	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAB	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.6
10985	AAC	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
10985	AAB	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	±9.6
10987	AAC	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	19.6
10988	AAB	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	±9.6
10989	AAC	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDO	9.33	±9.6
10990	AAB	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FD0	8.70	±9.6
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-DAM, 15 kHz)	5G NR FR1 FDD	8.55	±9.6
11007	AAA	5G NRI DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.46	±9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFOM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAB	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.8
11014	AAB	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	AAB	IEEE 802 11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
11016	AAB	IEEE 802 11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8:44	±9.6
11017	AAB	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8,41	±9.6
11018	AAB	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAB	IEEE 802 11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
11020	AAB	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.6
11021	BAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±9.6
11022	AAB	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAB	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6
11024	AAB	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.6
11025	AAB	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	±9.6
11026	AAB	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	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.

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Appendix F. – Dipole Calibration Data



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	ognition of calibration	s to the EA certificates	
lient HCT		Certificate No.	CLA13-1016_Sep23
Gyeonggi-do, Republic		-	
	CLA13 - SN: 101		
lan I	GLA15- 3N, 101	0	
Calibration procedure(s)	QA CAL-15.v10		
	Calibration Proce	dure for SAR Validation Sources	below 700 MHz
Calibration date:	September 21, 20	023	
	Companyable of Ed		
	COMPANY INCOMENTS OF A DESIGNATION	onal standards, which realize the physical uni	
The measurements and the uncerta	inties with confidence pr	obability are given on the following pages an	d are part of the certificate.
W calibrations have been conducte	d in the closed laborator	y facility: environment temperature (22 ± 3)*C	and burnidity < 70%
e contrations have doen conclude	a in the closed isponetor	y launcy, environment appendiculo (ex. x o) e	r and running < 70.76
Calibration Equipment used (M&TE	critical for calibration)		
	V-250		
Primary Standards	ID#	Gal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2 Power sensor NRP-ZB1	SN: 104778 SN: 103244	30-Mar-23 (No. 217-03804/03805)	Mar-24 Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03804) 30-Mar-23 (No. 217-03805)	Mar-24
Telerence 20 dB Attenuator	SN: CC2552 (20x)	30-Mar-23 (No. 217-03809)	Mar-24
ype-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 3877	06-Jan-23 (No. EX3-3877_Jan23)	Jan-24
	SN: 654	27-Jan-23 (No. DAE4-654_Jan23)	Jan-24
IAE4			
JAE4	# 5.355v (
IAE4 Secondary Standards	10.4	Check Date (in house)	Scheduled Check
3AE4 Secondary Standards Power meter NRP2	SN: 107193	08-Nov-21 (in house check Dec-22)	In house check: Dec-24
3AE4 Recordary Standards ?ower meter NRP2 ?ower sensor NRP-Z91	SN: 107193 SN: 100922	08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22)	In house check: Dec-24 In house check: Dec-24
3AE4 Recordary Standards Power meter NRP2 Power sensor NRP-Z91 Power sensor NRP-Z91	SN: 107193 SN: 100922 SN: 100418	08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22) 01-Jan-04 (in house check Dec-22)	In house check: Dec-24 In house check: Dec-24 In house check: Dec-24
3AE4 Recordary Standards ?ower meter NRP2 ?ower sensor NRP-Z91	SN: 107193 SN: 100922	08-Nov-21 (in house check Dec-22) 15-Dec-08 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-22)	In house check: Dec-24 In house check: Dec-24
3AE4 Recordary Standards Power meter NRP2 Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HIP 8646C	SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700	08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22) 01-Jan-04 (in house check Dec-22)	In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-24
NE4 Secondary Standards 'ower meter NRP2 'ower sensor NRP-291 Power sensor NRP-291 F generator HP 8648C ketwork Analyzer Agilent E8358A	SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700 SN: US41080477 Name	08-Nov-21 (in house check Dec-22) 15-Dec-08 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-22)	In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-24
3AE4 Recordary Standards Power meter NRP2 Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HIP 8646C	SN: 107193 SN: 100822 SN: 100418 SN: US3642U01700 SN: US41080477	08-Nov-21 (in house check Dec-22) 15-Dec-08 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-22) 31-Mar-14 (in house check Oct-22)	In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-24 In house check: Oct-24
NE4 Secondary Standards 'ower meter NRP2 'ower sensor NRP-291 Power sensor NRP-291 F generator HP 8648C ketwork Analyzer Agilent E8358A	SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700 SN: US41080477 Name	08-Nov-21 (in house check Dec-22) 15-Dec-08 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-22) 31-Mar-14 (in house check Oct-22) Function	In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-24 In house check: Oct-24
3AE4 Secondary Standards ⁹ ower meter NRP2 9ower sensor NRP-291 ⁹ ower sensor NRP-291 1F generator HP 8648C Vetwork Analyzer Agilent E8358A 2alibrated by:	SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700 SN: US41080477 Name Jeton Kastnali	08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-89 (in house check Jun-22) 31-Mar-14 (in house check Oct-22) Function Laboratory Technician	In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-24 In house check: Oct-24 Signature
NE4 Secondary Standards 'ower meter NRP2 'ower sensor NRP-291 Power sensor NRP-291 F generator HP 8648C ketwork Analyzer Agilent E8358A	SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700 SN: US41080477 Name	08-Nov-21 (in house check Dec-22) 15-Dec-08 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-22) 31-Mar-14 (in house check Oct-22) Function	In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-24 In house check: Oct-24
3AE4 Secondary Standards ⁹ ower meter NRP2 9ower sensor NRP-291 ⁹ ower sensor NRP-291 1F generator HP 8648C Vetwork Analyzer Agilent E8358A 2alibrated by:	SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700 SN: US41080477 Name Jeton Kastnali	08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-89 (in house check Jun-22) 31-Mar-14 (in house check Oct-22) Function Laboratory Technician	In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-24 In house check: Oct-24 Signature
3AE4 Secondary Standards ⁹ ower meter NRP2 9ower sensor NRP-291 ⁹ ower sensor NRP-291 1F generator HP 8648C Vetwork Analyzer Agilent E8358A 2alibrated by:	SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700 SN: US41080477 Name Jeton Kastnali	08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-89 (in house check Jun-22) 31-Mar-14 (in house check Oct-22) Function Laboratory Technician	In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-24 In house check: Oct-24 Signature

F-TP22-03 (Rev. 06)



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



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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

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

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

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Measurement Conditions

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

DASY Version	DASY5	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Phantom	Shell thickness: 2 ± 0.2 mm
EUT Positioning	Touch Position	
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	13 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	55.0	0.75 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	53.1 ± 6 %	0.72 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 *C		****

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	1 W input power	0.539 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	0.553 W/kg ± 18.4 % (k=2)
	The second s	
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR averaged over 10 cm ² (10 g) of Head TSL SAR measured	condition 1 W input power	0.335 W/kg

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.3 Ω + 0.0 jΩ	
Return Loss	- 37.8 dB	

Additional EUT Data

arEAG arEAG	Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 21.09.2023

Test Laboratory: SPEAG, Zurich, Switzerland

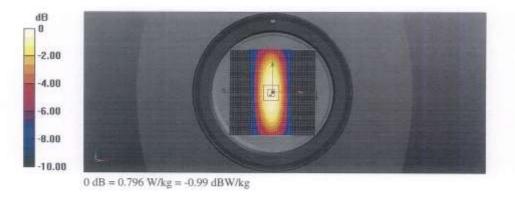
DUT: CLA13; Type: CLA13; Serial: CLA13 - SN: 1016

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

DASY52 Configuration:

- Probe: EX3DV4 SN3877; ConvF(15.33, 15.33, 15.33) @ 13 MHz; Calibrated: 06.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 27.01.2023
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2034
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

CLA Calibration for HSL-LF Tissue/CLA-13, touch configuration, Pin=1W/Zoom Scan, dist=1.4mm (8x10x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 30.91 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 1.09 W/kg SAR(1 g) = 0.539 W/kg; SAR(10 g) = 0.335 W/kg Smallest distance from peaks to all points 3 dB below = 17.6 mm Ratio of SAR at M2 to SAR at M1 = 78.6% Maximum value of SAR (measured) = 0.796 W/kg



Certificate No: CLA13-1016_Sep23

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Impedance Measurement Plot for Head TSL

					6	R	1		00 MHz	51,308
				1	X	4	A		迎.44 pH	38,344 m
				A	$\lambda \lambda$	K	R			
				1	TH	\rightarrow	St			
				17	tD	H.	20	Ì		
				L	+E	XX	12			
				2	X	1	A			
					N.	7-	S/			
					1	1	/			
	Ch1Am=	20				1				
Ch1:5	Ch 1 Aug = itart 10.0000 /		-			-				Stop: 10.0000 N
	Start 10.0000		-	_			1 1	2 don	กการ/เม-	
Ch1:5			-			13	1 1	3.0000	100 MHz	
00	Start 10.0000					3	1 1	3.0000	100 MHz	
00	Start 10.0000		-				1 1	3.0000	100 MHz	
00 00 00 00	Start 10.0000		-				1 1	3.000	IOO MHz	
00 00 00 00	Start 10.0000						1 1	3.000	100 MHz	
00 00 00 00	Start 10.0000						1 1	3.000	IOO MHz	
00 00 00 00 00	Start 10.0000						1	3.0000	IGO MHz	
00 00 00 00 0.00 0.00	Start 10.0000						1: 1	3 0000	100 MHz	
00 00 00 00 00 0.00 5.00 5.00 5.00	Start 10.0000					*	1 1	3 000	100 MHz	
00 00 00 00 0.00 0.00 5.00 5.00 5.00	Start 10.0000	20				3	1 1	3.0000	100 MHz	

Certificate No: GLA13-1016_Sep23

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Certification of Calibration

Object	CLA13 – SN:1016
Calibration procedure(s)	Procedure for Calibration Extension for SAR Dipoles.
Extended Calibration date	Sep .21, 2025
Description	SAR Validation CLA13 at 13 Mb

Note: Calibrated Before Testing. Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. signal generator) to determine the losses of the measurement path.



Dipole Calibration Extension

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

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

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



<mark>r1</mark> S11 Log Mag	10.00 dB/)	•0.000 dB [F	-1]				
50.00	00000 MHz -	28.491 dB					
40.00							
30.00							
20.00							
10.00							
0.000							
-10.00				N I			
-20.00				\$			
-30.00				- ·			
-40.00							
-50.00 10.2M							
LIL. 200	10.8M 1	1.4M 12	M 12.6M	📥 3.2M	13.8M 14.4	M 15M	15.6M
Start 10 MHz Tr1 S11 Smith(R+	jX) Scale 1		Lin	▲13.2M 10 kHz	13.8M 14.4 0 dBm	M 15M	15.6M Stop 16 MH
Start 10 MHz Tr1 S11 Smith(R+	jX) Scale 1	201	Lin 3 0049 mE			M 15M	

Impedance & Return-loss Measurement Plot for Head TSL

Result

Calibration Date	Extenstion	Target Head(1g)	Measured Head SAR(1g) W/kg@17.0dBm	Deviation	Certificate SAR Target Head(10g) W/kg@17.0dBm		Deviation 10g(%)	Certificate Impedance Head(Ohm) Real	Measured Impedance Head(Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head(Ohm) Imaginary	Measured Impedance Head(Ohm) Imaginary	Difference (Ohm) Imaginary	PASS/FAIL
09/21/2024	09/21/2025	0.02765	0.028	1.27	0.01715	0.017	-0.87	51.3	53.384	-2.084	0	-4.0481	4.0481	PASS



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ower sensor NRP-Z91			Mar-25
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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kallbrierdienst

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

Accreditation No.: SCS 0108

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

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D750V3-1014_May24

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Measurement Conditions

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

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

Head TSL parameters The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	43.2 ± 6 %	0.88 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.09 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.50 W/kg ± 17.0 % (k=2)
PAD	and the second se	
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Head TSL SAR measured	condition 250 mW input power	1.37 W/kg

Certificate No: D750V3-1014_May24

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	53.6 Ω + 2.7 jΩ	
Return Loss	- 27.3 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.037 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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

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

Additional EUT Data

Manufactured by	SPEAG
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Certificate No: D750V3-1014_May24

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DASY5 Validation Report for Head TSL

Date: 20.05.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1014

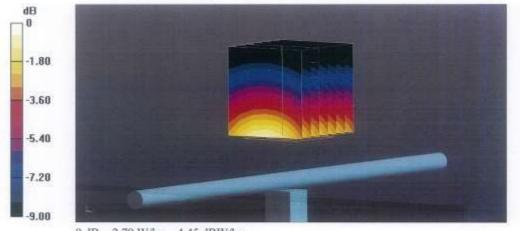
Communication System: UID 0 - CW; Frequency: 750 MHz Medium parameters used: f = 750 MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 43.2$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.11, 10.11, 10.11) @ 750 MHz; Calibrated: 03.11.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- · Electronics: DAE4 Sn781; Calibrated: 16.02.2024
- · Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 59.58 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 3.13 W/kg SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.37 W/kg Smallest distance from peaks to all points 3 dB below = 24.1 mm Ratio of SAR at M2 to SAR at M1 = 66.4% Maximum value of SAR (measured) = 2.79 W/kg



0 dB = 2.79 W/kg = 4.45 dBW/kg

Certificate No: D750V3-1014_May24

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Impedance Measurement Plot for Head TSL

				f	4	X	EX	A	750.0	-58	32.86	pH	42	i3.578 2.8524 .975 r 35.09	t O nU
				F	4	X	X	Ê	J						
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Certificate No: D750V3-1014_May24

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



S Schweizerischer Kalibrierdienst

C Service suisse d'étalonnage Servizio svizzero di taratura

S Swiss Calibration Service

Accreditation No.: SCS 0108

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

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D835V2-441_Apr24

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Measurement Conditions

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

DASY Version	DASY52	V52.10,4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.6 ± 6 %	0.93 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	322	

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.48 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.73 W/kg ± 17.0 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Head TSL.	condition 250 mW input power	1.62 W/kg

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.5 Ω - 2.5 jΩ
Return Loss	- 31.7 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.374 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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

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

Additional EUT Data

Manufactured by	SPEAG

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DASY5 Validation Report for Head TSL

Date: 18.04.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:441

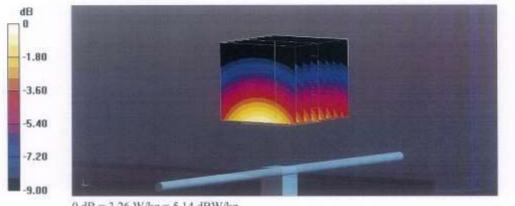
Communication System: UID 0 - CW; Frequency: 835 MHz Medium parameters used: f = 835 MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 42.6$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(9.69, 9.69, 9.69) @ 835 MHz; Calibrated: 03.11.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.01.2024
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (8x8x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 63.37 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 3.71 W/kg SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.62 W/kg Smallest distance from peaks to all points 3 dB below = 16 mm Ratio of SAR at M2 to SAR at M1 = 66.8% Maximum value of SAR (measured) = 3.26 W/kg



0 dB = 3.26 W/kg = 5.14 dBW/kg

Certificate No: D835V2-441 Apr24

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Impedance Measurement Plot for Head TSL

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Certificate No: D835V2-441_Apr24

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Calibration procedure(s)	QA CAL-05.v12 Calibration Proce	dure for SAR Validation Sources	between 0.7-3 GHz
Calibration date:	July 12, 2023	Manager and a second	Statistic Contest
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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



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

Accreditation No.: SCS 0108

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

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D1640V2-345 Jul23

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Measurement Conditions

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1640 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.2	1.31 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.1 ± 6 %	1.28 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	1 <u>1111</u>	

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition			
SAR measured	250 mW input power	8.34 W/kg		
SAR for nominal Head TSL parameters	normalized to 1W 33.8 W/kg ±			
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition			
SAR averaged over 10 cm ³ (10 g) of Head TSL SAR measured	condition 250 mW input power	4.52 W/kg		

Certificate No: D1640V2-345_Jul23



Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.0 Ω + 6.9 jΩ				
Return Loss	- 23.3 dB				

General Antenna Parameters and Design

Electrical Delay (one direction)	1.232 ns
----------------------------------	----------

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

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

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

Additional EUT Data

Manufactured by	SPEAG
	1127-1129-1227-1227-1227-1227-1227-1227-

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DASY5 Validation Report for Head TSL

Date; 12.07.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1640 MHz; Type: D1640V2; Serial: D1640V2 - SN:345

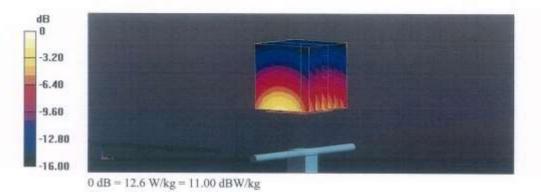
Communication System: UID 0 - CW; Frequency: 1640 MHz Medium parameters used: f = 1640 MHz; $\sigma = 1.28$ S/m; $\varepsilon_r = 40.1$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.68, 8.68, 8.68) @ 1640 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 105.0 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 15.0 W/kg SAR(1 g) = 8.34 W/kg; SAR(10 g) = 4.52 W/kg Smallest distance from peaks to all points 3 dB below = 10.8 mm Ratio of SAR at M2 to SAR at M1 = 56.1% Maximum value of SAR (measured) = 12.6 W/kg



Certificate No: D1640V2-345_Jul23

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Impedance Measurement Plot for Head TSL

			6	A	R		1.640000 GHz 685.84 pH 1.640000 GHz	6.8591 0
Ch1:S	Ch 1.4vg * tart 1.44000 (-	F	X	Ě	Ì		Stop 1.84000 GH
	IB S11				3	1	1.840000 GHz	-28,293 dB
10.00 5.00 5.00 5.00 -10.00 -15.00 -20.00							1.840000 CHz	-23.293 dB

Certificate No: D1640V2-345_Jul23

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Certification of Calibration

Object	D1640V2 – SN:345
Calibration procedure(s)	Procedure for Calibration Extension for SAR Dipoles.
Extended Calibration date	Jul.12, 2025
Description	SAR Validation Dipole at 1640 Mbz

Note: Calibrated Before Testing. Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. signal generator) to determine the losses of the measurement path.



Dipole Calibration Extension

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

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

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

Calibration Date	Extenstion Date	Electrical	Certificate SAR Target Head(1g) W/kg@17.0dBm	SAR(1g)	Deviation 10(%)	Certificate SAR Target Head(10g) W/kg@17.0dBm	SAR(10g)	Deviation	Certificate Impedance Head(Ohm) Real				Measured Impedance Head(Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate ReturnLoss Head(dB)	Measured ReturnLoss Head(dB)	Deviation(%)	PASS/FAIL	
07/12/2024	07/12/2025	1.232	1.69	1.61	-4.73	0.915	0.863	-5.68	50.0	50.964	-0.964	6.9	3.921	2.979	-23.3	-26.468	13.60	PASS	



50.00	1.6400	000 GHz	-26.468	dB						
40.00	1.0400	000 412	-20.400	00						
30.00					_		_	_		
20.00					_		_	_		
10.00							_			
0.000							_	_		-
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40.00						1994				
50.00 L										
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	nith(R+j>	<) Scale			Lin	10 kHz	0	dBm		Stop 1.84
<mark>1</mark> 511 Sm	nith(R+j>		1.000 U				•	dBm		Stop 1.84
<mark>1</mark> 511 Sm	nith(R+j>		1.000 U		Lin			dBm		Stop 1.84
<mark>1</mark> 511 Sm	nith(R+j>		1.000 U		Lin			dBm		Stop 1.84

Impedance & Return-loss Measurement Plot for Head TSL

Result

Calibration Date	Extenstion Date	Electrical	Certificate SAR Target Head(1g) W/kg@17.0dBm			Certificate SAR Target Head(10g) W/kg@17.0dBm	SAR(10g)	Deviation 10o(%)	Certificate Impedance Head(Ohm) Real	Measured Impedance Head(Ohm) Real	Difference (Ohm) Real			Difference (Ohm) Imaginary	Certificate ReturnLoss Head(dB)	Measured ReturnLoss Head(dB)	Deviation(%)	PASS/FAIL
07/12/2024	07/12/2025	1.232	1.69	1.61	-4.73	0.915	0.863	-5.68	50.0	50.964	-0.964	6.9	3.921	2.979	-23.3	-26.468	13.60	PASS



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Salibration procedure(s)	QA CAL-05.v12 Calibration Proce	wo naso na kao kao na kao kao kao kao kao kao kao kao kao ka				
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Janbrahon date:	April 10, 2024			-		
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Certificate No: D1800V2-2d007_Apr24

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



S Schweizerischer Kalibrierdienst

- C Service suisse d'étalonnage
- Servizio svizzero di taratura S Sinise Calibratica Service

Swiss Calibration Service

Accreditation No.: SCS 0108

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

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D1800V2-2d007_Apr24

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Measurement Conditions

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1800 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 *C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.8 ± 6 %	1.39 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	-	

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.67 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	39.0 W/kg ± 17.0 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Head TSL SAR measured	condition 250 mW input power	5.08 W/kg

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	45.9 Ω - 7.0 jΩ
Return Loss	- 21.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.203 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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

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

Additional EUT Data

Manufactured by	SPEAG

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DASY5 Validation Report for Head TSL

Date: 15.04.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d007

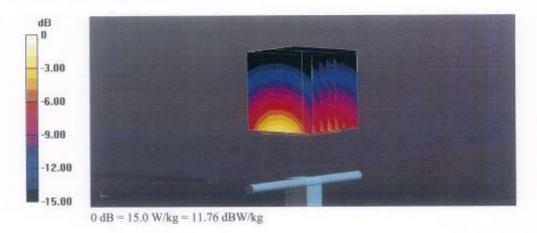
Communication System: UID 0 - CW; Frequency: 1800 MHz Medium parameters used: f = 1800 MHz; σ = 1.39 S/m; ϵ_e = 40.8; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.63, 8.63, 8.63) @ 1800 MHz; Calibrated: 03.11.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.01.2024
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 109.6 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 17.9 W/kg SAR(1 g) = 9.67 W/kg; SAR(10 g) = 5.08 W/kg Smallest distance from peaks to all points 3 dB below = 10 mm Ratio of SAR at M2 to SAR at M1 = 54.5% Maximum value of SAR (measured) = 15.0 W/kg



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Impedance Measurement Plot for Head TSL

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



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S Swiss Calibration Service

Accreditation No.: SCS 0108

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

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D1900V2-5d032_Jan24

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Measurement Conditions

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied,

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	41.3 ± 6 %	1.40 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.97 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	40.2 W/kg ± 17.0 % (k=2)
SAR averaged over 10 cm ² (10 p) of Head TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Head TSL SAR measured	condition 250 mW input power	5.22 W/kg

Certificate No: D1900V2-5d032_Jan24

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.2 Ω + 6.8 jΩ	
Return Loss	- 23.4 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1,182 ns
----------------------------------	----------

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

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

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

Additional EUT Data

Manufactured by	SPEAG

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DASY5 Validation Report for Head TSL

Date: 18.01.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d032

Communication System: UID 0 - CW; Frequency: 1900 MHz Medium parameters used: f = 1900 MHz; $\sigma = 1.4 \text{ S/m}$; $\varepsilon_t = 41.3$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.43, 8.43, 8.43) @ 1900 MHz; Calibrated: 03.11.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 03.10.2023
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 109.9 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 18.3 W/kg SAR(1 g) = 9.97 W/kg; SAR(10 g) = 5.22 W/kg Smallest distance from peaks to all points 3 dB below = 9.8 mm Ratio of SAR at M2 to SAR at M1 = 54.9% Maximum value of SAR (measured) = 15.5 W/kg



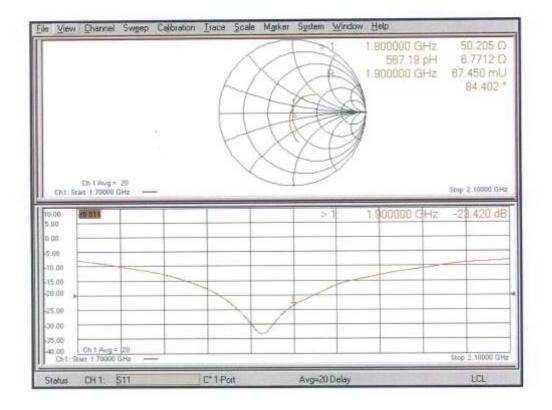
0 dB = 15.5 W/kg = 11.90 dBW/kg

Certificate No: D1900V2-5d032_Jan24

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Impedance Measurement Plot for Head TSL



Certificate No: D1900V2-5d032_Jan24

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Calibration Laborator Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurie			D .)	Schweizerischer Kallbrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swisa Calibration Service
Accredited by the Swiss Accreditat The Swiss Accreditation Service Multilateral Agreement for the re	is one of the signatori			Accreditation No.: SCS 0108
Client HCT			Certificate No	D2300V2-1010_Jul23
Gyeonggi-do, Republ	lic of Korea			
CALIBRATION C	ERTIFICAT	E		
Object	D2300V2 - SN:1	010		
Calibration procedure(s)	QA CAL-05.v12 Calibration Proce	edure for SAR Validati	on Source	s between 0.7-3 GHz
Calibration date:	July 19, 2023			
This calibration certificate docume The measurements and the uncert All calibrations have been conduct Calibration Equipment used (M&TI	ainties with confidence p ed in the closed laborato	robability are given on the follo	owing pages a	nd are part of the certificate.
Primary Standards	1:0*	Cal Date (Certificate No.)		Scheduled Calibration
Power meter NRP2 Power sensor NRP-Z91	5N: 104778 SN: 103244	30-Mar-23 (No. 217-03804) 30-Mar-23 (No. 217-03804)		Mar-24
Powar sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805		Mar-24 Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809		Mar-24
Type-N mismatch combination	SN: 310962 / 06327	30-Mer-23 (No. 217-03810)	1	Mar-24
Reference Probe EX3DV4	SN: 7349	10-Jan-23 (No. EXS-7549_		Jan-24
DAE4	SN: 001	19-Dec-22 (No. DAE4-601	Dec22)	Dec-23
Secondary Standards	1D #	Check Date (in house)		Scheduled Check
Power meter E4419B Power sensor HP 8481A	5N: GB39612475 5N: US37292783	30-Oct-14 (in house check		In house check: Oct-24
Power sentor HP 8481A	SN: MY41093315	07-Oct-15 (in house check 07-Oct-15 (in house check		In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check		In house check: Dct-24 In house check: Oct-24
Network Analyzer Agliant E8358A	5N: US41080477	31-Mar-14 (in house check		In house check: Oct-24
	Name	Function		Signatura
Calibrated by:	Paulo Pina	Laboratory Ted	hnician	
				tan the
Approved by:	Sven Kühn	Technicsi Mana	KOH .	5.55
				Issued July 19, 2023
This calibration certificate shall not	be reproduced except in	full without written approval of	The laboratory	1 15 10 1 101 4
ertificate No: D2300V2-1010 J	ul23	Page 1 of 6		Ho hi
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Swiss Calibration Service

Accreditation No.: SCS 0108

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

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D2300V2-1010_Jul23

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Measurement Conditions

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2300 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.5	1.67 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.3 ± 6 %	1.68 mha/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	144	114

SAR result with Head TSL

SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	12.2 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	48.3 W/kg ± 17.0 % (k=2)
SAR overaged over 10 cm ² (10 c) of Head TSI	condition	
SAR overaged over 10 cm ² (10 g) of Head TSL	condition	e de lare
SAR averaged over 10 cm ² (10 g) of Head TSL SAR measured SAR for nominal Head TSL parameters	condition 250 mW input power normalized to 1W	5.95 W/kg 23.6 W/kg ± 16.5 % (k≈2)

Certificate No: D2300V2-1010_Jul23

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	48.4 Ω - 0.9 jΩ	
Return Loss	- 34.6 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1,170 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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

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

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 19.07.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1010

Communication System: UID 0 - CW; Frequency: 2300 MHz Medium parameters used: f = 2300 MHz; $\sigma = 1.68$ S/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.98, 7.98, 7.98) @ 2300 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 115.7 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 21.7 W/kg SAR(1 g) = 12.2 W/kg; SAR(10 g) = 5.95 W/kg Smallest distance from peaks to all points 3 dB below = 9 mm Ratio of SAR at M2 to SAR at M1 = 56.5% Maximum value of SAR (measured) = 18.9 W/kg



Certificate No: D2300V2-1010_Jul23

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Impedance Measurement Plot for Head TSL

-					~	R	E	X	2.30000	196 pF	-873.7	400 Ω 15 mΩ
				K	X	X	X		2.30000	(IGHz		24 mU 0.85 *
	Ch 1 Aug e liter 2,1000	20 0Hz	-		×		E	¥			ling 2.5	0010 GHL
5.60 8.00	#0.533			-			>	1	2.30000	0 GHz	-34,8	46 dB
10.00 5.00 6.00 6.00 -01.00 -01.00 -01.00 -01.00 -01.00							>		2.30000	0 CHz	-34,8	46 dB

Certificate No: D2300V2-1010_Jut23

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Certification of Calibration

Object	D2300V2 – SN:1010
Calibration procedure(s)	Procedure for Calibration Extension for SAR Dipoles.
Extended Calibration date	Jul.19, 2025
Description	SAR Validation Dipole at 2300 Mb

Note: Calibrated Before Testing. Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. signal generator) to determine the losses of the measurement path.



Dipole Calibration Extension

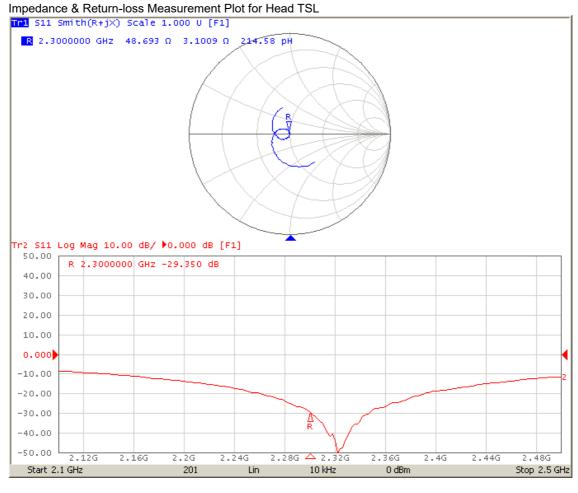
Per HDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

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

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

Calibration Date	Extenstion Date	Electrical	Target Head(1g)	Measured Head SAR(1g) W/kg@17.0dBm	Deviation 1c(%)	Certificate SAR Target Head(10g) W/kg@17.0dBm	SAR(10g)	Deviation 10c(%)	Certificate Impedance Head(Ohm) Real			Certificate Impedance Head(Ohm) Imaginary		Difference	Certificate ReturnLoss Head(dB)	Measured ReturnLoss Head(dB)	Deviation(%)	PASS/FAIL
07/19/2024	07/19/2025	1.17	2.415	2.4	-0.62	1.18	1.15	-2.54	48.4	48.693	-0.3	-0.9	3.1009	-4.0009	-34.6	-29.35	-15.17	PASS





Result

Calibration Date	Extenstion Date	Electrical	Certificate SAR Target Head(1g) W/kg@17.0dBm		Deviation 10(%)	Certificate SAR Target Head(10g) W/kg@17.0dBm	SAR(10g)	Deviation 10c(%)	Certificate Impedance Head(Ohm) Real	Measured Impedance Head(Ohm) Real		Certificate Impedance Head(Ohm) Imaginary	Measured Impedance Head(Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate ReturnLoss Head(dB)	Measured ReturnLoss Head(dB)	Deviation(%)	PASS/FAIL
07/19/2024	07/19/2025	1.17	2.415	2.4	-0.62	1.18	1.15	-2.54	48.4	48.693	-0.3	-0.9	3.1009	-4.0009	-34.6	-29.35	-15.17	PASS



		"Malulalado"	
Accredited by the Swiss Accredital The Swiss Accreditation Service Multilateral Agreement for the re	is one of the signatorie		Accreditation No.: SCS 010
Client HCT		Certificate	No. D2450V2-743_Mar24
Gyeonggi-do, Repub	lic of Korea		
CALIBRATION C	ERTIFICAT	E 결 단 5	· 자 파 아 자
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	Calibration Proce	edure for SAR Validation Source	ces between 0.7-3 GHz
Calibration date:	March 14, 2024		
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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



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

S Swiss Calibration Service

Accreditation No.: SCS 0108

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

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D2450V2-743_Mar24

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Measurement Conditions

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.5 ± 6 %	1.83 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.1 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	51.8 W/kg ± 17.0 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR averaged over 10 cm ² (10 g) of Head TSL SAR measured	condition 250 mW input power	6.09 W/kg

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