

Report No. :E5/2020/90002-01 Rev: 01 Page: 1 of 43

Appendix B - DAE & Probe Calibration Certificate

| chmid & Partner Engineering AG ughausstrasse 43, 8004 Zurich | y of h, Switzerland | C S | Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service |
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| ccredited by the Swiss Accredita ne Swiss Accreditation Service ultilateral Agreement for the re | e is one of the signatories t | to the EA | No.: SCS 0108 |
| ient SGS-TW (Aude | | and a second second | : DAE4-547_Mar20 |
| ALIBRATION C | | and the second | |
| bject | DAE4 - SD 000 D0 | 04 BM - SN: 547 | |
| calibration procedure(s) | QA CAL-06.v30 Calibration proced | lure for the data acquisition elec | tronics (DAE) |
| Calibration date: | March 17, 2020 | | |
| The measurements and the unce | ertainties with confidence pro | nal standards, which realize the physical un ybability are given on the following pages an facility: environment temperature (22 ± 3)% | ad are part of the certificate. |
| The measurements and the unce | ertainties with confidence pro | obability are given on the following pages an | ad are part of the certificate. |
| The measurements and the unce All calibrations have been condu Calibration Equipment used (M& | ertainties with confidence pro | bability are given on the following pages an facility: environment temperature (22 ± 3)°(Cal Date (Certificate No.) | d are part of the certificate. C and humidity < 70%. Scheduled Calibration |
| The measurements and the unco All calibrations have been condu Calibration Equipment used (M& Primary Standards | ertainties with confidence pro acted in the closed laboratory TE critical for calibration) | bability are given on the following pages an | Id are part of the certificate. C and humidity < 70%. |
| The measurements and the unce All calibrations have been condu Calibration Equipment used (M& Primary Standards Keithley Multimeter Type 2001 | ertainties with confidence pro- licted in the closed laboratory TE critical for calibration) | bability are given on the following pages an facility: environment temperature (22 ± 3)°(Cal Date (Certificate No.) | d are part of the certificate. C and humidity < 70%. Scheduled Calibration |
| The measurements and the unce | Artainties with confidence pro- Artainties with confidenc | bability are given on the following pages an facility: environment temperature (22 ± 3)* Cal Date (Certificate No.) 03-Sep-19 (No:25949) | d are part of the certificate. C and humidity < 70%. Scheduled Calibration Sep-20 |
| The measurements and the unce All calibrations have been condu Calibration Equipment used (M& Primary Standards Keithley Multimeter Type 2001 Secondary Standards Auto DAE Calibration Unit | ertainties with confidence pro- locted in the closed laboratory (TE critical for calibration) ID # SN: 0810278 ID # SE UWS 053 AA 1001 SE UMS 006 AA 1002 | bability are given on the following pages an facility: environment temperature (22 ± 3)°(Cal Date (Certificate No.) 03-Sep-19 (No:25949) Check Date (in house) 09-Jan-20 (in house check) | d are part of the certificate. C and humidity < 70%. Scheduled Calibration Sep-20 Scheduled Check In house check: Jan-21 |
| The measurements and the unce All calibrations have been condu Calibration Equipment used (M& Primary Standards Ceithley Multimeter Type 2001 Secondary Standards Auto DAE Calibration Unit Calibrator Box V2.1 | Artainties with confidence pro- Artainties with confidenc | bability are given on the following pages an facility: environment temperature (22 ± 3)°(Cal Date (Certificate No.) 03-Sep-19 (No:25949) Check Date (in house) 09-Jan-20 (in house check) 09-Jan-20 (in house check) | d are part of the certificate. C and humidity < 70%. Scheduled Calibration Sep-20 Scheduled Check In house check: Jan-21 In house check: Jan-21 |
| he measurements and the unce all calibrations have been condu calibration Equipment used (M& Primary Standards Geithley Multimeter Type 2001 Secondary Standards Nuto DAE Calibration Unit Calibrator Box V2.1 | Artainties with confidence pro- include in the closed laboratory ID # SN: 0810278 ID # SE UWS 053 AA 1001 SE UMS 006 AA 1002 Name | bability are given on the following pages an facility: environment temperature (22 ± 3)°(Cal Date (Certificate No.) 03-Sep-19 (No:25949) Check Date (in house) 09-Jan-20 (in house check) 09-Jan-20 (in house check) | d are part of the certificate. C and humidity < 70%. Scheduled Calibration Sep-20 Scheduled Check In house check: Jan-21 In house check: Jan-21 Signature AJA |
| The measurements and the unce All calibrations have been condu Calibration Equipment used (M& Primary Standards Keithley Multimeter Type 2001 Secondary Standards Auto DAE Calibration Unit Calibrator Box V2.1 | Artainties with confidence pro- include in the closed laboratory ID # SN: 0810278 ID # SE UWS 053 AA 1001 SE UMS 006 AA 1002 Name | bability are given on the following pages an facility: environment temperature (22 ± 3)°(Cal Date (Certificate No.) 03-Sep-19 (No:25949) Check Date (in house) 09-Jan-20 (in house check) 09-Jan-20 (in house check) | Id are part of the certificate. C and humidity < 70%. Scheduled Calibration Sep-20 Scheduled Check In house check: Jan-21 In house check: Jan-21 |
| The measurements and the unce all calibrations have been condu- calibration Equipment used (M& Primary Standards Keithley Multimeter Type 2001 Secondary Standards Auto DAE Calibration Unit Calibrator Box V2.1 Calibrated by: | ertainties with confidence pro- licted in the closed laboratory ITE critical for calibration) ID # SN: 0810278 ID # SE UWS 053 AA 1001 SE UMS 006 AA 1002 Name Adrian Gehring Sven Kühn | Cal Date (Certificate No.) 03-Sep-19 (No:25949) Check Date (in house) 09-Jan-20 (in house check) 09-Jan-20 (in house check) Function Laboratory Technician | Issued: March 17, 2020 |

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Accreditation No.: SCS 0108

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

Glossarv DAE

data acquisition electronics information used in DASY system to align probe sensor X to the robot Connector angle coordinate system.

Methods Applied and Interpretation of Parameters

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

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DC Voltage Measurement

| High Range: | 1LSB = | 6.1µV , | full range = | -100+300 mV |
|------------------|----------------|-----------------|----------------|-------------|
| Low Range: | 1LSB = | 61nV , | full range = | -1+3mV |
| DASY measurement | parameters: Au | to Zero Time: 3 | sec; Measuring | time: 3 sec |

| Calibration Factors | X | Y | Z |
|---------------------|-----------------------|-----------------------|-----------------------|
| High Range | 403.278 ± 0.02% (k=2) | 403.179 ± 0.02% (k=2) | 402.830 ± 0.02% (k=2) |
| Low Range | 3.95688 ± 1.50% (k=2) | 3.90777 ± 1.50% (k=2) | 3.96411 ± 1.50% (k=2) |

Connector Angle

| Connector Angle to be used in DASY system | 91.5°±1° |
|---|----------|
| Connector Angle to be used in DAST system | 51.5 |

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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

| High Range | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 199995.01 | 0.39 | 0.00 |
| Channel X + Input | 20004.46 | 2.22 | 0.01 |
| Channel X - Input | -19996.11 | 4.80 | -0.02 |
| Channel Y + Input | 199994.74 | -0.27 | -0.00 |
| Channel Y + Input | 20000.81 | -1.32 | -0.01 |
| Channel Y - Input | -20002.22 | -1.19 | 0.01 |
| Channel Z + Input | 199996.62 | 2.14 | 0.00 |
| Channel Z + Input | 20003.74 | 1.72 | 0.01 |
| Channel Z - Input | -19998.94 | 2.27 | -0.01 |

| Low Range | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 2003.02 | 1.37 | 0.07 |
| Channel X + Input | 202.40 | 0.52 | 0.26 |
| Channel X - Input | -197.81 | 0.27 | -0.14 |
| Channel Y + Input | 2002.86 | 1.28 | 0.06 |
| Channel Y + Input | 201.87 | 0.04 | 0.02 |
| Channel Y - Input | -198.64 | -0.54 | 0.27 |
| Channel Z + Input | 2002.13 | 0.62 | 0.03 |
| Channel Z + Input | 200.85 | -0.82 | -0,41 |
| Channel Z - Input | -199.40 | -1.23 | 0.62 |

2. Common mode sensitivity

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

| | Common mode Input Voltage (mV) | High Range Average Reading (µV) | Low Range Average Reading (µV) |
|-----------|-----------------------------------|------------------------------------|-----------------------------------|
| Channel X | 200 | -3.58 | -4.73 |
| | - 200 | 5.85 | 4.21 |
| Channel Y | 200 | -0.25 | -0.89 |
| | - 200 | 0.38 | -0.39 |
| Channel Z | 200 | 5.47 | 5.10 |
| | - 200 | -8.07 | -8.21 |

3. Channel separation

| DACV | measurement | naramators. | Auto Zero | Time' 3 sec' | Measuring | time: 3 sec |
|------|-------------|-------------|-----------|---------------|-----------|--------------|
| DAGT | measurement | parameters. | Auto 2010 | 11110. 0 000, | mouournis | 111101 0 000 |

| | Input Voltage (mV) | Channel X (µV) | Channel Y (µV) | Channel Z (µV) |
|-----------|--------------------|----------------|----------------|----------------|
| Channel X | 200 | 1 | 3.40 | -1.88 |
| Channel Y | 200 | 9.97 | | 4.19 |
| Channel Z | 200 | 5.21 | 8.10 | 2. |

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4. AD-Converter Values with inputs shorted

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

| | High Range (LSB) | Low Range (LSB) | |
|-----------|------------------|-----------------|--|
| Channel X | 16359 | 14869 | |
| Channel Y | 16462 | 15382 | |
| Channel Z | 16084 | 17197 | |

5. Input Offset Measurement

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

Input 10MQ

| | Average (µV) | min. Offset (µV) | max. Offset (µV) | Std. Deviation (µV) |
|-----------|--------------|------------------|------------------|------------------------|
| Channel X | -0.39 | -1.31 | 0.90 | 0.34 |
| Channel Y | 0.25 | -0.76 | 1.38 | 0.41 |
| Channel Z | 0.73 | -0.73 | 3.00 | 0.74 |

6. Input Offset Current

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

7. Input Resistance (Typical values for information)

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

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

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

9. Power Consumption (Typical values for information)

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

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| ultilateral Agreement for the | | | |
| | | | EVA 0000 E 1 00 |
| lient SGS-TW (Auc | len) | Certificate No: | EX3-3938_Feb20 |
| | | | |
| CALIBRATION | CERTIFICATE | | |
| | | | |
| Object | EX3DV4 - SN:393 | 8 | |
| | Contraction of the second | | |
| | - Andrewson and the second | | |
| Calibration procedure(s) | QA CAL-01.v9, QA | A CAL-14.v5, QA CAL-23.v5, QA | CAL-25.v7 |
| | Calibration proced | ure for dosimetric E-field probes | |
| | | | |
| | | | |
| Calibration date: | February 27, 2020 | | |
| | | | |
| This calibration certificate docu | ments the traceability to nation | al standards, which realize the physical units | of measurements (SI) |
| All calibrations have been cond | ucted in the closed laboratory | facility: environment temperature $(22 \pm 3)^{\circ}C$ a | and humidity < 70%. |
| | | facility: environment temperature (22 \pm 3)°C a | and humidity < 70%. |
| Calibration Equipment used (M | | facility: environment temperature (22 ± 3)°C a | and humidity < 70%. |
| Calibration Equipment used (M Primary Standards | &TE critical for calibration) | | |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 | &TE critical for calibration) | Cal Date (Certificate No.) | Scheduled Calibration |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 | 8TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 | Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) | Scheduled Calibration Apr-20 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator | ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) | Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) | Scheduled Calibration Apr-20 Apr-20 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 | ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) SN: 660 | Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DAE4-660_Dec19) | Scheduled Calibration Apr-20 Apr-20 Apr-20 Apr-20 Dec-20 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 | ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) | Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) | Scheduled Calibration Apr-20 Apr-20 Apr-20 Apr-20 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 | ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) SN: 660 SN: 3013 | Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DAE4-660_Dec19) 31-Dec-19 (No. ES3-3013_Dec19) | Scheduled Calibration Apr-20 Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards | ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) SN: 660 SN: 3013 ID | Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DAE4-660_Dec19) 31-Dec-19 (No. ES3-3013_Dec19) Check Date (in house) | Scheduled Calibration Apr-20 Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Scheduled Check |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B | ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) SN: 660 SN: 3013 ID SN: GB41293874 | Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DAE4-660_Dec19) 31-Dec-19 (No. ES3-3013_Dec19) | Scheduled Calibration Apr-20 Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Scheduled Check In house check: Jun-20 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B Power sensor E4412A | ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087 | Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02893) 27-Dec-19 (No. DAE4-660_Dec19) 31-Dec-19 (No. ES3-3013_Dec19) Check Date (in house) 06-Apr-16 (in house check Jun-18) | Scheduled Calibration Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Dec-20 Scheduled Check In house check: Jun-20 In house check: Jun-20 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A | ID SN: 104778 SN: 103244 SN: 103245 SN: 103245 SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: 000110210 | Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DAE4-660_Dec19) 31-Dec-19 (No. ES3-3013_Dec19) Check Date (in house) 06-Apr-16 (in house check Jun-18) 06-Apr-16 (in house check Jun-18) | Scheduled Calibration Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Scheduled Check In house check: Jun-20 In house check: Jun-20 In house check: Jun-20 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C | ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) SN: 3013 ID SN: 660 SN: 3013 SN: 600 SN: 3013 SN: 600 SN: 000102 SN: 000110210 SN: US3642U01700 | Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DAE4-660_Dec19) 31-Dec-19 (No. ES3-3013_Dec19) Check Date (in house) 06-Apr-16 (in house check Jun-18) 06-Apr-16 (in house check Jun-18) 06-Apr-16 (in house check Jun-18) 04-Aug-99 (in house check Jun-18) | Scheduled Calibration Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Dec-20 Scheduled Check In house check: Jun-20 In house check: Jun-20 In house check: Jun-20 In house check: Jun-20 |
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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 Swiss Calibration Service

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Accreditation No.: SCS 0108

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

| tissue simulating liquid |
|---|
| sensitivity in free space |
| sensitivity in TSL / NORMx,y,z |
| diode compression point |
| crest factor (1/duty_cycle) of the RF signal |
| modulation dependent linearization parameters |
| φ rotation around probe axis |
| θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., θ = 0 is normal to probe axis |
| |

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

- Calibration is Performed According to the Following Standards: a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement

 - b)
 - Absorption Rate (GRV) in the number head near measurement of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016 IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices c) used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010 KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"
 - (b

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f < 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal
- characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z* * *ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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EX3DV4 - SN:3938

February 27, 2020

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|--------------------------|----------|----------|----------|-----------|
| Norm $(\mu V/(V/m)^2)^A$ | 0.51 | 0.57 | 0.33 | ± 10.1 % |
| DCP (mV) ⁸ | 103.2 | 100.0 | 108.2 | 1 |

Calibration Results for Modulation Response

| UID | Communication System Name | | A dB | B dBõV | С | D dB | VR mV | Max dev. | Unc ^E (k=2) |
|-----|---------------------------|---|---------|-----------|-----|---------|----------|-------------|---------------------------|
| 0 | CW | X | 0.0 | 0.0 | 1.0 | 0.00 | 165.0 | ±2.5 % | ±4.7 % |
| | | Y | 0.0 | 0.0 | 1.0 | | 179.2 | | |
| | | Z | 0.0 | 0.0 | 1.0 | | 176.1 | | |

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,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 5).

¹⁰ Numerical linearization parameter: uncertainty or required.
 ¹⁵ 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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EX3DV4-SN:3938

February 27, 2020

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

| Sensor Arrangement | Triangular |
|---|------------|
| Connector Angle (°) | -28.2 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 9 mm |
| Tip Diameter | 2.5 mm |
| Probe Tip to Sensor X Calibration Point | 1 mm |
| Probe Tip to Sensor Y Calibration Point | 1 mm |
| Probe Tip to Sensor Z Calibration Point | 1 mm |
| Recommended Measurement Distance from Surface | 1.4 mm |
| | |

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EX3DV4- SN:3938

February 27, 2020

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^c | Relative Permittivity ^F | Conductivity (S/m) ^F | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc (k=2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|--------------|
| 750 | 41.9 | 0.89 | 9.72 | 9.72 | 9.72 | 0.59 | 0.80 | ± 12.0 % |
| 835 | 41.5 | 0.90 | 9.48 | 9.48 | 9.48 | 0.57 | 0.80 | ± 12.0 % |
| 900 | 41.5 | 0.97 | 9.17 | 9.17 | 9.17 | 0.42 | 0.95 | ± 12.0 % |
| 1450 | 40.5 | 1.20 | 8.72 | 8.72 | 8.72 | 0.45 | 0.80 | ± 12.0 % |
| 1750 | 40.1 | 1.37 | 8.31 | 8.31 | 8.31 | 0.41 | 0.86 | ± 12.0 % |
| 1900 | 40.0 | 1.40 | 8.07 | 8.07 | 8.07 | 0.36 | 0.86 | ± 12.0 % |
| 2000 | 40.0 | 1.40 | 7.89 | 7.89 | 7.89 | 0.42 | 0.86 | ± 12.0 % |
| 2300 | 39.5 | 1.67 | 7.81 | 7.81 | 7.81 | 0.41 | 0.86 | ± 12.0 % |
| 2450 | 39.2 | 1.80 | 7.59 | 7.59 | 7.59 | 0.44 | 0.86 | ± 12.0 9 |
| 2600 | 39.0 | 1.96 | 7.44 | 7,44 | 7.44 | 0.42 | 0.86 | ± 12.0 % |
| 3300 | 38.2 | 2.71 | 7.12 | 7.12 | 7.12 | 0.30 | 1.30 | ± 13.1 % |
| 3500 | 37.9 | 2.91 | 7.00 | 7.00 | 7.00 | 0.30 | 1.30 | ± 13.1 % |
| 3700 | 37.7 | 3.12 | 6.83 | 6.83 | 6.83 | 0.30 | 1.30 | ± 13.1 % |
| 3900 | 37.5 | 3.32 | 6.55 | 6.55 | 6.55 | 0.35 | 1.60 | ± 13.1 % |
| 4100 | 37.2 | 3.53 | 6.42 | 6.42 | 6.42 | 0.35 | 1.60 | ± 13.1 9 |
| 4200 | 37.1 | 3.63 | 6.28 | 6.28 | 6.28 | 0.35 | 1.60 | ± 13.1 % |
| 4400 | 36.9 | 3.84 | 6,14 | 6.14 | 6.14 | 0.35 | 1.60 | ± 13.1 % |
| 4600 | 36.7 | 4.04 | 6.10 | 6.10 | 6.10 | 0.40 | 1.60 | ± 13.1 9 |
| 4800 | 36.4 | 4.25 | 6.02 | 6.02 | 6.02 | 0.40 | 1.80 | ± 13.1 % |
| 4950 | 36.3 | 4.40 | 5.86 | 5.86 | 5.86 | 0.40 | 1.80 | ± 13.1 % |
| 5250 | 35.9 | 4.71 | 5.00 | 5.00 | 5.00 | 0.40 | 1.80 | ± 13.1 % |
| 5600 | 35.5 | 5.07 | 4.70 | 4,70 | 4.70 | 0.40 | 1.80 | ± 13.1 9 |
| 5750 | 35.4 | 5.22 | 4.75 | 4.75 | 4.75 | 0.40 | 1.80 | ± 13.1 9 |

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assesses at 6 MHz is 40 MHz. The validity of Uncertainty is the RSS of the ConvF uncertainty is 9-18 MHz. Above 5 GHz frequency validity can be extended to ± 100 MHz. The validity of Uncertainty is 9-18 MHz. Above 5 GHz frequency validity can be extended to ± 100 MHz. The validity of Uncertainty for Uncertainty for indicated target tissue parameters (c and o) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (c and o) is restricted to ± 5%. The uncertainty for indicated target tissue parameters. ^C Apha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

diameter from the boundary.

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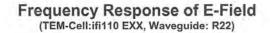
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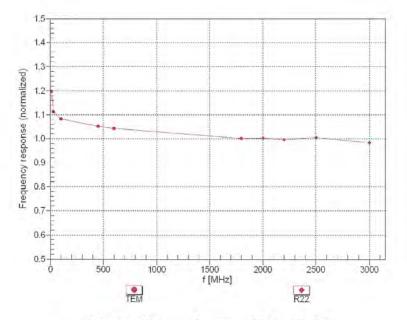


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February 27, 2020





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

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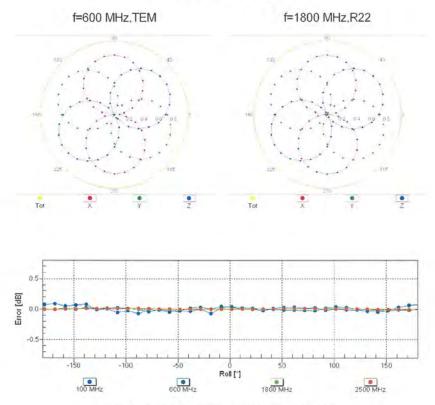
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Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

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

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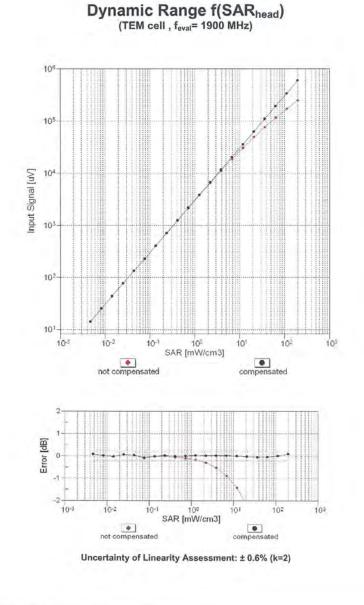
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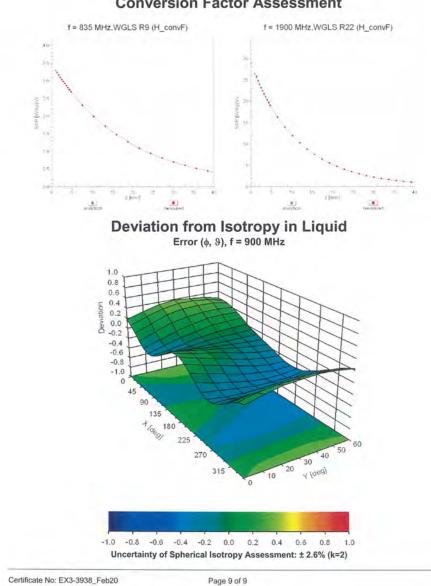
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Conversion Factor Assessment

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| Engineering AG ughausstrasse 43, 8004 Zurich | n, Switzerland | C S | Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service |
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| credited by the Swiss Accredital e Swiss Accreditation Service Itilateral Agreement for the re | e is one of the signatories | to the EA | No.: SCS 0108 |
| ient SGS-TW (Aude | n) | Certificate No | : DAE4-1336_Aug20 |
| CALIBRATION C | | a hada a sana a | |
| Dbject | DAE4 - SD 000 D0 | 04 BM - SN: 1336 | |
| Calibration procedure(s) | QA CAL-06.v30 Calibration proced | lure for the data acquisition elect | tronics (DAE) |
| Calibration date: | August 13, 2020 | | |
| The measurements and the unce | ertainties with confidence pro | nal standards, which realize the physical uni obability are given on the following pages an facility: environment temperature $(22 \pm 3)^{\circ}$ C | d are part of the certificate. |
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| The measurements and the unce All calibrations have been conduc Calibration Equipment used (M& Primary Standards Keithley Multimeter Type 2001 Secondary Standards Auto DAE Calibration Unit Calibrator Box V2.1 | Antainties with confidence pro- cted in the closed laboratory TE critical for calibration) ID # SN: 0810278 ID # SE UWS 053 AA 1001 SE UWS 006 AA 1002 Name | facility: environment temperature (22 ± 3)°C Cal Date (Certificate No.) 03-Sep-19 (No:25949) Check Date (in house) 09-Jan-20 (in house check) 09-Jan-20 (in house check) | d are part of the certificate. and humidity < 70%. Scheduled Calibration Sep-20 Scheduled Check In house check: Jan-21 |
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Glossary

DAE Connector angle

data acquisition electronics information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

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

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DC Voltage Measurement

| 1LSB = | 6.1µV, | full range = | -100+300 mV |
|--------|--------|---------------|-------------|
| 1LSB = | 61nV, | full range = | -1+3mV |
| | 1LSB = | 1LSB = 61nV , | itees |

| Calibration Factors | Х | Y | z |
|---------------------|-----------------------|-----------------------|---------------------------|
| High Range | 403.373 ± 0.02% (k=2) | 403.675 ± 0.02% (k=2) | 403.157 \pm 0.02% (k=2) |
| Low Range | 3.95195 ± 1.50% (k=2) | 3.98791 ± 1.50% (k=2) | 3.99627 ± 1.50% (k=2) |

Connector Angle

| Connector Angle to be used in DASY system | 339.0 ° ± 1 ° |
|---|---------------|
| | |

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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

| High Range | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 200038.51 | 1.81 | 0.00 |
| Channel X + Input | 20007.18 | 1.22 | 0.01 |
| Channel X - Input | -20005.20 | 0.72 | -0.00 |
| Channel Y + Input | 200036.89 | 0.39 | 0.00 |
| Channel Y + Input | 20004.92 | -0.88 | -0.00 |
| Channel Y - Input | -20007.27 | -1.25 | 0.01 |
| Channel Z + Input | 200038.49 | 2,22 | 0.00 |
| Channel Z + Input | 20006.13 | 0.32 | 0.00 |
| Channel Z - Input | -20007.34 | -1.29 | 0.01 |

| Low Range | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 2001.38 | -0.01 | -0.00 |
| Channel X + Input | 201.37 | -0.04 | -0.02 |
| Channel X - Input | -198.55 | -0.02 | 0.01 |
| Channel Y + Input | 2001.32 | 0.01 | 0.00 |
| Channel Y + Input | 200.36 | -0.97 | -0.48 |
| Channel Y - Input | -199.71 | -1.04 | 0.52 |
| Channel Z + Input | 2001.21 | -0.06 | -0.00 |
| Channel Z + Input | 200.65 | -0.64 | -0.32 |
| Channel Z - Input | -199.52 | -0.85 | 0.43 |
| | | | |

2. Common mode sensitivity

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

| | Common mode Input Voltage (mV) | High Range Average Reading (μV) | Low Range Average Reading (µV) |
|-----------|-----------------------------------|------------------------------------|-----------------------------------|
| Channel X | 200 | 5.14 | 4.45 |
| | - 200 | -4.22 | -5.45 |
| Channel Y | 200 | -4.29 | -4.17 |
| | - 200 | 2.35 | 2.01 |
| Channel Z | 200 | 22.38 | 22.64 |
| | - 200 | -24.85 | -24.58 |

3. Channel separation

DASY measure ment parameters: Auto Zero Time: 3 sec: Measuring time: 3 sec.

| | Input Voltage (mV) | Channel X (µV) | Channel Y (µV) | Channel Z (µV) |
|-----------|--------------------|----------------|----------------|----------------|
| Channel X | 200 | | 4.88 | -1.29 |
| Channel Y | 200 | 8.14 | (H | 6.18 |
| Channel Z | 200 | 8.43 | 6.05 | ~ |

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4. AD-Converter Values with inputs shorted

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

| | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 15663 | 16348 |
| Channel Y | 15906 | 15692 |
| Channel Z | 15844 | 14523 |

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec Input 10MQ

| | Average (µV) | min. Offset (µV) | max. Offset (µV) | Std. Deviation (µV) |
|-----------|--------------|------------------|------------------|------------------------|
| Channel X | 0.78 | -0.03 | 1.45 | 0.34 |
| Channel Y | -0.66 | -2.18 | 1.28 | 0.41 |
| Channel Z | -0.43 | -1.19 | 0.51 | 0.34 |

6. Input Offset Current

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

7. Input Resistance (Typical values for information)

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

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

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

9. Power Consumption (Typical values for information)

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

Certificate No: DAE4-1336_Aug20

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| e Swiss Accreditation Servi | | o the EA | editation No.: SCS 0108 |
|--|---|---|--|
| ient SGS (Auden) | recognition of calibration ce | | EX3-7466_Jan21 |
| ALIBRATION | CERTIFICATE | | |
| Deject | EX3DV4 - SN:746 | 8 | |
| Calibration procedure(s) | QA CAL-25.v7 | CAL-12.v9, QA CAL-14.v6, QA ure for dosimetric E-field probes | CAL-23.v5, |
| Calibration date: | January 29, 2021 | | |
| | | bability are given on the following pages and a facility; environment temperature (22 ± 3) °C a | |
| Calibration Equipment used (M | | | |
| Calibration Equipment used (M Primary Standards Power meter NRP | &TE critical for calibration) | facility: environment temperature (22 ± 3)°C a Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) | nd humidity < 70%. Scheduled Calibration Apr-21 |
| alibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 | &TE critical for calibration) | facility: environment temperature (22 ± 3)°C a Cat Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) | nd humidity < 70%. Scheduled Calibration Apr:21 Apr:21 |
| alibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 | &TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 | facility: environment temperature (22 ± 3)°C a Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) | Apr-21 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator | ID SN: 104778 SN: 103244 SN: 103245 SN: CC2552 (20x) SN: 202x) | facility: environment temperature (22 ± 3)°C a Cat Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 31-Mar-20 (No. 217-03101) 31-Mar-20 (No. 217-03106) | nd humidity < 70%. Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21 |
| alibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 | &TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 | facility: environment temperature (22 ± 3)°C a Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) | Apr-21 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 | LD ID SN: 104778 SN: 104778 SN: 103244 SN: 103245 SN: 023245 SN: 02245 SN: 02245 SN: 0245 SN: 0245 | Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100) | Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 |
| alibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards | 8TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 22552 (20x) SN: 660 SN: 3013 ID | Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/003101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 03-Apr-20 (No. 217-03100) 03-Apr-20 (No. 217-03106) 03-Dec-20 (No. D&At-4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20) Check Date (in house) | and humidity < 70%. Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 Scheduled Check |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B | ATE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 022552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 | Cal Date (Certificate No.) O1-Apr-20 (No. 217-03100)03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03101) 33-Dac-20 (No. 217-03102) 30-Dac-20 (No. 253-3013, Dac-20) Check Date (in house) 06-Apr-16 (in house) | Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B Power sensor E4412A | LD ID SN: 104778 SN: 103244 SN: 103245 SN: C2552 (20x) SN: 660 SN: 3013 ID SN: 684 1293874 SN: MY41498087 SN: MY41498087 | Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03106) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20) Check Date (in house check Jun-20) 06-Apr-16 (in house check Jun-20) | Apr-21 Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power sensor E4412A Power sensor E4412A | ATE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 022552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 | Cal Date (Certificate No.) O1-Apr-20 (No. 217-03100)03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03101) 33-Dac-20 (No. 217-03102) 30-Dac-20 (No. 253-3013, Dac-20) Check Date (in house) 06-Apr-16 (in house) | nd humidity < 70%. Scheduled Calibration Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Power sensor E4412A | 8TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 022552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: 00110210 | Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/003101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03106) 23-Dec-20 (No. D&E4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) | Apr-21 Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Power sensor E4412A | LD ID SN: 104778 SN: 104778 SN: 103244 SN: 103245 SN: 02252 (20x) SN: 660 SN: 3013 ID ID SN: GB41293874 SN: WY41498087 SN: 000110210 SN: S02462U01700 SN: U3642U01700 | Cal Date (Certificate No.) C1-Apr-20 (No. 217-03100)003101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 30-Dec-20 (No. 217-03106) 23-Dec-20 (No. 253-3013_Dec20) Check Date (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 08-Apr-16 (in house check Jun-20) | nd humidity < 70%. Scheduled Calibration Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power sensor E4412A Power sensor E4412A Power sensor E4412A Ref generator HP 8648C Network Analyzer E8358A | ATE critical for calibration) ID SN: 104776 SN: 103245 SN: 00245 SN: 00245 SN: 00245 SN: 0013 ID SN: GB41293874 SN: MY4148087 SN: Wy4148087 SN: Wy4148087 SN: Wy41480477 SN: US41080477 | Cal Date (Certificate No.) O1-Apr-20 (No. 217-03100)003101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03106) 23-Dec-20 (No. DE4-660_Dec20) 30-Dec-20 (No. DE4-660_Dec20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-99 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) | An humidity < 70%. Scheduled Calibration Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power sensor E4412A Power sensor E4412A Power sensor E4412A Ref generator HP 8648C Network Analyzer E8358A | ATE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 02345 SN: 02345 SN: 020552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41488067 SN: 000110210 SN: US44080477 Name Jelion Kastrali | Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 23-Dec-20 (No. DAE4-660, Dec-20) 30-Dec-20 (No. ES3-3013, Dec-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-90 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) Di-Apr-30 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) Di-Apr-30 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) Di-Aug-90 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) Di-Aug-90 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) Di-Aug-90 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) Di-Aug-90 (in house check Jun-20) <td>An humidity < 70%. Scheduled Calibration Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22</td> | An humidity < 70%. Scheduled Calibration Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 |
| Ul calibrations have been cond Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power sensor E4412A Power sensor E4412A Power sensor E4412A Ref generator HP 8648C Network Analyzer E8358A Celibrated by: | ATE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 20245 SN: 20245 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: 000110210 SN: 000110210 SN: US41080477 Name | Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. DAE4-660_Dec20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Apr-29 (No.buse check Jun-20) 03-Apr-16 (in house check Jun-20) 04-Apr-19 (in house check Jun-20) 04-Apr-16 (in house check Jun-20) 04-Apr-19 (in house check Jun-20) 04-Apr-19 (in house check Jun-20) 04-Apr-19 (in house check Jun-20) 04-Apr-29 (in house check Jun-20) 04-Apr-20 (in house check Jun-20) 04-Apr-20 (in house check Jun-20) | An humidity < 70%. Scheduled Calibration Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 |
| Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power sensor E4412A Power sensor E4412A Power sensor E4412A Ref generator HP 8648C Network Analyzer E8358A | ATE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 02345 SN: 02345 SN: 020552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41488067 SN: 000110210 SN: US44080477 Name Jelion Kastrali | Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03100) 23-Dec-20 (No. DAE4-660, Dec-20) 30-Dec-20 (No. ES3-3013, Dec-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-90 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) Di-Apr-30 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) Di-Apr-30 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) Di-Aug-90 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) Di-Aug-90 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) Di-Aug-90 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) Di-Aug-90 (in house check Jun-20) <td>nd humidity < 70%. Scheduled Calibration Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22</td> | nd humidity < 70%. Scheduled Calibration Apr-21 Apr-21 Apr-21 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 |

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

Glossary:

TSL NORMx,y,z ConvF CF A. B. C. D

Polarization (p

Polarization 9

Connector Angle

tissue simulating liquid tissue simulating induid sensitivity in free space sensitivity in TSL / NORMx,y,z diode compression point crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters φ rotation around probe axis B rotation around an axis that is in the plane normal to probe axis (at measurement center)

i.e., ϑ = 0 is normal to probe axis information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEEE Sid 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques, June 2013 IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from han
- b)
- beld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)*, July 2016
 beld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)*, July 2016
 beld cose proximity to the human body (frequency range of 30 MHz to 6 GHz)*, March 2010
 KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- (as Applied and Interpretation of Parameters: NORMx; y, z: Assessed for E-field polarization 9 = 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((); 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.
- 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 (no uncertainty required). DCP does not depend on frequency nor media. PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal
- characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f \le 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f \ge 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMs, 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 \pm 50 MHz to \pm 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 to a service of the sensor offset. (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No: EX3-7466_Jan21

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EX3DV4 - SN:7466

January 29, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7466

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|-------------------------------|----------|----------|----------|-----------|
| Norm (µV/(V/m)2) ⁴ | 0.45 | 0.39 | 0.61 | ± 10.1 % |
| DCP (mV) ⁸ | 101.3 | 97.4 | 96.4 | |

Calibration Results for Modulation Response

| UID | Communication System Name | | A dB | B dBõV | С | D dB | VR mV | Max dev. | Max Unc ^E (k=2) |
|--------|--|------|---------|-----------|--------|---------|----------|---------------|----------------------------------|
| 0 | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 150.5 | ±2.2 % | ±4.7 % |
| | | Y | 0.00 | 0.00 | 1.00 | | 143.0 | | |
| | | Z | 0.00 | 0.00 | 1.00 | | 156.1 | · | |
| 10352- | Pulse Waveform (200Hz, 10%) | X | 6.41 | 75.26 | 13.91 | 10.00 | 60.0 | ±2.6 % | ±9.6 % |
| AAA | Carde Proventing Contraction of | Y | 1.66 | 61.84 | 7.61 | | 60.0 | | 1.000 |
| | | Z | 20.00 | 95.49 | 22.81 | | 60.0 | And so in the | |
| 10353- | Pulse Waveform (200Hz, 20%) | X | 20.00 | 87.76 | 16.55 | 6.99 | 80.0 | ±2.1 % | ±9.6 % |
| AAA | and the second second second | Y | 0.78 | 60.01 | 5.70 | | 80.0 | | |
| | | Z | 20.00 | 109.03 | 28.37 | | 80.0 | | |
| 10354- | Pulse Waveform (200Hz, 40%) | X | 20.00 | 114.67 | 27.40 | 3.98 | 95.0 | ±20% | ±9.6% |
| AAA | Contraction of the second | Y | 0.39 | 60.00 | 4.96 | | 95.0 | 1.11.12 | |
| | the second se | Z | 20.00 | 151.84 | 46.68 | | 95.0 | 1.000 | and the second |
| 10355- | Pulse Waveform (200Hz, 60%) | X | 0.17 | 152.80 | 100.00 | 2.22 | 120.0 | ±2.2% | ± 9.6 % |
| AA | Y | 0.25 | 61.07 | 5.62 | | 120.0 | | 1 | |
| | and the second s | Z | 2.52 | 160,00 | 62.06 | | 120.0 | | 100.00 |
| 10387- | QPSK Waveform, 1 MHz | X | 6.66 | 93.59 | 26.49 | 1.00 | 150.0 | ±2.9 % | ± 9.6 % |
| AAA | | Y | 1.60 | 67.46 | 15,34 | | 150.0 | | |
| | | Z | 2.22 | 71.55 | 18.47 | | 150.0 | | - |
| 10388- | QPSK Waveform, 10 MHz | X | 3.86 | 80.00 | 22.12 | 0.00 | 150.0 | ±2.8% | ± 9.6 % |
| AAA | an and the state of the state | Y | 2.06 | 67.36 | 15.67 | | 150.0 | | 1.11 |
| | A Transfer of the second | Z | 3.04 | 73.63 | 19.08 | 1.00 | 150.0 | - | |
| 10396- | 64-QAM Waveform, 100 kHz | X | 3.32 | 77.52 | 23.54 | 3.01 | 150.0 | +2.5% | ±9.6% |
| AAA | and a second second second second | Y | 1.82 | 64.05 | 15.97 | 1.22 | 150.0 | | |
| | second and the second | Z | 2.79 | 71.10 | 20.57 | | 150.0 | 1000 | |
| 10399- | 64-QAM Waveform, 40 MHz | X | 3.98 | 70.45 | 18.12 | 0.00 | 150.0 | ± 2.8 % | ± 9.6 % |
| AAA | And the second second second second | Y | 3.42 | 66.88 | 15.76 | 1000 | 150.0 | 1.00 | 1.1 |
| | and the second sec | Z | 3.84 | 68.75 | 17.14 | 1000 | 150.0 | 1.1.1.1.1 | |
| 10414- | WLAN CODF, 64-QAM, 40MHz | X | 4.99 | 67.25 | 16.87 | 0.00 | 150.0 | ±2.8% | ± 9.6 % |
| AAA | Constant and an end on the second of | Y | 4.68 | 65.67 | 15,59 | | 150.0 | | |
| | | Z | 5.05 | 66.21 | 16.27 | | 150.0 | - | |

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,Y,Z do not affect the E³-field uncertainty inside TSL (see Pages 5, 6 and 7). Numerical insanzation parameter: uncertainty not required. Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the de value.

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EX3DV4- SN:7466

January 29, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7466

| | C1 fF | C2 fF | α V ⁻¹ | T1 ms.V ⁻² | T2 ms.V ⁻¹ | T3 ms | T4 V-2 | T5 V-1 | T6 |
|---|----------|----------|----------------------|--------------------------|--------------------------|----------|-----------|-----------|------|
| X | 32.4 | 242.77 | 36.31 | 3.66 | 0.00 | 5.01 | 1.37 | 0.00 | 1.01 |
| Y | 30.4 | 225.35 | 35.05 | 3.07 | 0.00 | 4.90 | 0.00 | 0.11 | 1.00 |
| Z | 47.2 | 365.07 | 38.23 | 8.11 | 0.00 | 5.10 | 0.00 | 0,33 | 1.01 |

Other Probe Parameters

| Sensor Arrangement | Triangular |
|---|------------|
| Connector Angle (°) | 148.1 |
| 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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EX3DV4- SN:7466

January 29, 2021

| f (MHz) ^c | Relative Permittivity ^F | Conductivity (S/m) ^F | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc (k=2) |
|----------------------|---------------------------------------|------------------------------------|--------------|---------|--------------|--------------------|----------------------------|--------------|
| 600 | 42.7 | 0.88 | 10.92 | 10.92 | 10.92 | 0.06 | 1.20 | ± 13.3 % |
| 750 | 41.9 | 0.89 | 10.27 | 10.27 | 10.27 | 0.45 | 1.00 | ± 12.0 % |
| 835 | 41.5 | 0.90 | 10.11 | 10.11 | 10.11 | 0.45 | 0.91 | ± 12.0 % |
| 900 | 41.5 | 0.97 | 9.83 | 9.83 | 9.83 | 0.39 | 0.97 | ± 12.0 % |
| 1450 | 40.5 | 1.20 | 9.46 | 9.46 | 9.46 | 0.30 | 0.80 | ± 12.0 % |
| 1750 | 40.1 | 1.37 | 9.07 | 9.07 | 9.07 | 0.32 | 0.80 | ± 12.0 9 |
| 1900 | 40.0 | 1.40 | 8.71 | 8.71 | 8.71 | 0.29 | 0.80 | ± 12.0 9 |
| 2000 | 40.0 | 1.40 | 8.60 | 8.60 | 8.60 | 0.32 | 0.85 | ± 12.0 9 |
| 2300 | 39.5 | 1.67 | 8.47 | 8,47 | 8.47 | 0.28 | 0.90 | ± 12.0 9 |
| 2450 | 39.2 | 1.80 | 8.08 | 8.08 | 8.08 | 0.27 | 0.90 | ± 12.0 9 |
| 2600 | 39.0 | 1.96 | 7.82 | 7.82 | 7.82 | 0.38 | 0.90 | ± 12.0 9 |
| 3300 | 38.2 | 2.71 | 7.34 | 7.34 | 7.34 | 0.30 | 1.30 | ± 13.1 9 |
| 3500 | 37.9 | 2.91 | 7.10 | 7.10 | 7.10 | 0.35 | 1.30 | ± 13,1 9 |
| 3700 | 37.7 | 3.12 | 6.98 | 6.98 | 6.98 | 0.35 | 1.30 | ± 13.1 9 |
| 3900 | 00 37.5 | .5 3.32 | 6.80 6.70 | 6.80 | 6.80 6.70 | 0.35 | 1.60 | ± 13.1 9 |
| 4100 | 37.2 | 3.53 | | 6.70 | | 0.35 | 1.60 | ± 13.1 9 |
| 4200 | 37.1 | 3.63 | 6.59 | 6.59 | 6.59 | 0.40 | 1.70 | ± 13.1 9 |
| 4400 | 36.9 | 3.84 | 6.32 | 6.32 | 6.32 | 0.40 | 1.70 | ± 13.1 % |
| 4600 | 36.7 | 4.04 | 6.34 | 6.34 | 6.34 | 0.40 | 1.70 | ± 13.1 9 |
| 4800 | 36.4 | 4.25 | 6.30 | 6.30 | 6.30 | 0.40 | 1.70 | ± 13.1 9 |
| 4950 | 36.3 | 4.40 | 6.04 | 6.04 | 6.04 | 0,40 | 1.80 | ± 13.1 9 |
| 5200 | 36.0 | 4.66 | 5.60 | 5.60 | 5.60 | 0.40 | 1.80 | ± 13.1 5 |
| 5300 | 35.9 | 4.76 | 5.50 | 5.50 | 5.50 | 0.40 | 1.80 | ± 13.1 9 |
| 5600 | 35.5 | 5.07 | 5.04 | 5.04 | 5.04 | 0.40 | 1.80 | ± 13.1 |
| 5800 | 35.3 | 5.27 | 5.02 | 5.02 | 5.02 | 0.40 | 1.80 | ± 13.1 9 |

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7466

⁶ Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else il 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 0, 64, 126, 150 and 220 MHz respectively. Validity of ConvF assessed at 13 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity cabe extended to ± 110 MHz. ⁶ Alt respectives below 36 Hz, the validity firstsup parameters (s and o convF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity cabe extended to ± 110 MHz. ⁶ Alt respectives below 36 Hz, the validity of tissue parameters (s and o convF assessed at 13 MHz is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters. ⁶ (and o) is restricted to ± 5%. The uncertainty for indicated target tissue parameters. ⁶ Alt Appl.Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is applied to diavays less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies betwein 3-8 GHz at any distance larger than half the probe tip diameter from the boundary.

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EX3DV4- SN:7466

January 29, 2021

| f (MHz) ^c | Relative Permittivity | Conductivity (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^o (mm) | Unc (k=2) |
|----------------------|--------------------------|-----------------------|---------|---------|---------|--------------------|----------------------------|--------------|
| 600 | 56.1 | 0.95 | 11.08 | 11.08 | 11.08 | 0.10 | 1.20 | ± 13.3 % |
| 750 | 55.5 | 0.96 | 10.56 | 10.56 | 10.56 | 0.39 | 0.83 | ± 12.0 % |
| 835 | 55.2 | 0.97 | 10.29 | 10.29 | 10.29 | 0.40 | 0.80 | ± 12.0 % |
| 900 | 55.0 | 1.05 | 9.98 | 9.98 | 9.98 | 0.26 | 1.08 | ± 12.0 % |
| 1750 | 53.4 | 1.49 | 8.69 | 8,69 | 8.69 | 0.31 | 0.85 | ± 12.0 % |
| 1900 | 53.3 | 1.52 | 8.30 | 8.30 | 8.30 | 0.17 | 1.27 | ± 12.0 % |
| 2000 | 53.3 | 1.52 | 8.26 | 8.26 | 8.26 | 0.29 | 0.92 | ± 12.0 % |
| 2300 | 52.9 | 1.81 | 8.22 | 8.22 | 8.22 | 0.34 | 0.88 | ± 12.0 % |
| 2450 | 52.7 | 1.95 | 7.99 | 7.99 | 7.99 | 0.33 | 0.95 | ± 12.0 % |
| 2600 | 52.5 | 2.16 | 7.85 | 7.85 | 7.85 | 0.32 | 0.95 | ± 12.0 % |
| 3300 | 51.6 | 3.08 | 6.67 | 6.67 | 6.67 | 0.40 | 1.35 | ± 13.1 % |
| 3500 | 51.3 | 3.31 | 6.65 | 6.65 | 6.65 | 0.40 | 1.35 | ± 13.1 % |
| 3700 | 51.0 | 3.55 | 6.60 | 6.60 | 6.60 | 0.40 | 1.30 | ± 13.1 % |
| 3900 | 51.2 | 3.78 | 6.23 | 6.23 | 6.23 | 0.40 | 1.70 | ± 13.1 9 |
| 4100 | 50,5 | 4.01 | 6.09 | 6,09 | 6.09 | 0.40 | 1.70 | ± 13.1 9 |
| 4200 | 50.4 | 4.13 | 5.88 | 5.88 | 5.88 | 0.50 | 1.80 | ± 13.1 9 |
| 4400 | 50.1 | 4.37 | 5.77 | 5.77 | 5.77 | 0.50 | 1.80 | ± 13.1 9 |
| 4600 | 49.8 | 4.60 | 5.69 | 5.69 | 5.69 | 0.50 | 1,80 | ± 13.1 % |
| 4800 | 49.6 | 4.83 | 5.62 | 5.62 | 5.62 | 0.50 | 1.80 | ± 13.1 % |
| 4950 | 49.4 | 5.01 | 5.39 | 5,39 | 5.39 | 0.50 | 1.90 | ± 13.1 9 |
| 5200 | 49.0 | 5.30 | 5.00 | 5.00 | 5.00 | 0.50 | 1.90 | ± 13.1 % |
| 5300 | 48.9 | 5.42 | 4.90 | 4.90 | 4.90 | 0.50 | 1.90 | ± 13.1 9 |
| 5600 | 48.5 | 5.77 | 4.30 | 4.30 | 4.30 | 0.50 | 1.90 | ± 13.1 9 |
| 5800 | 48.2 | 6.00 | 4.41 | 4.41 | 4.41 | 0.50 | 1.90 | ± 13.1 9 |

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7466

^{C1} Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else if is restricted to ± 50 MHz. The uncertainty is the RSS of the CorvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz to 1 ± 100.0 MHz for CorvF assessed at 2.4 MHz. Ba of 4.128, 150 and 220 MHz respectively. Validity of CorvF assessed at 6 MHz is 4-9 MHz, and CorvF assessed at 3 MHz is 4-19 MHz. Bove 5 GHz frequency validity can be earleded to ± 110 MHz. ⁴ ⁴ At requencies below 3 GHz, the validity of tissue parameters (s and o) can be relaxed to ± 100 MHz. ⁵ ⁴ At requencies below 3 GHz, the validity of tissue parameters (s and o) as is restricted to ± 5%. The uncertainty is the RSS of the CorvF assessed at 3 MHz is a parameters. ⁶ ⁴ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is advays less than ± 1% for frequencies below 3 GHz, and below ± 2% for frequencies below 3 GHz at any distance larger than that the probe tip dameter from the boundary.

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EX3DV4- SN:7466

January 29, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7466

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^c | Relative Permittivity ^F | Conductivity (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc (k=2) |
|----------------------|---------------------------------------|-----------------------|---------|---------|---------|--------------------|----------------------------|--------------|
| 6500 | 34.5 | 6.07 | 5.70 | 5.70 | 5.70 | 0.20 | 2.50 | ± 18.6 % |
| 7000 | 33.9 | 6.65 | 5.85 | 5.85 | 5.85 | 0.20 | 2.00 | ± 18.6 % |
| 8000 | 32.7 | 7.84 | 5,60 | 5.60 | 5.60 | 0.40 | 1.80 | ± 18.6 % |
| 9000 | 31,5 | 9.08 | 5.45 | 5.45 | 5.45 | 0.50 | 1.80 | ± 18.6 % |

validity above 6GHz is ± 700 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for

⁶ Frequency validity above 6GHz is a 700 MHz. The uncertainty is the host of the source wavelenge of the indicated frequency bank. The uncertainty is the host of the source wavelenge of the source of the sou

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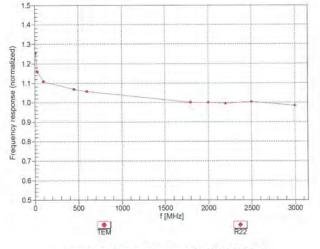


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January 29, 2021

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



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

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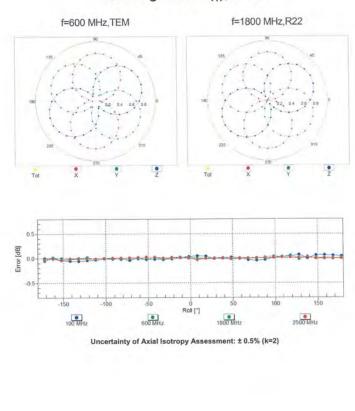
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EX3DV4- SN:7466

January 29, 2021



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

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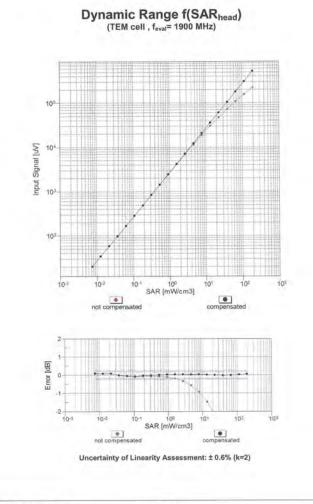
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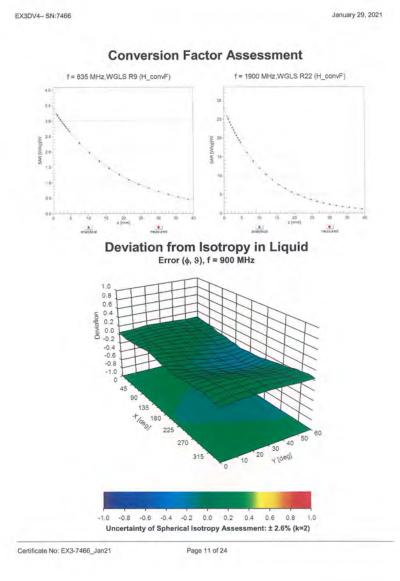
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Appendix: Modulation Calibration Parameters

| CAA CAB CAB DAC DAC DAC DAC DAC DAC DAC DAC DAC CAA CAA | CW SAR Validation (Square, 100ms, 10ms) UMTS-FDD (WCDMA) IEEE 802.11b WiFI 2.4 GHz (DSSS, 1 Mbps) IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 6 Mbps) GSM-FDD (TDMA, GMSK, TN 0) GPRS-FDD (TDMA, GMSK, TN 0) EDGE-FDD (TDMA, BMSK, TN 0.1) EDGE-FDD (TDMA, BPSK, TN 0.1) GPRS-FDD (TDMA, BMSK, TN 0.12) GPRS-FDD (TDMA, GMSK, TN 0.1-2.3) EDGE-FDD (TDMA, BPSK, TN 0.1-2.3) IEEE 802.15.1 Bluetooth (GFSK, DH13) IEEE 802.15.1 Bluetooth (GFSK, DH3) IEEE 802.15.1 Bluetooth (GFSK, DH3) | CW Test WCDMA WLAN WLAN GSM GSM GSM GSM GSM GSM GSM GSM GSM Bluetooth Bluetooth | 0.00 10.00 2.91 1.87 9.46 9.39 9.57 6.56 12.62 9.55 4.80 3.55 7.78 | $\begin{array}{c} \pm 4.7 \% \\ \pm 9.6 \% \end{array}$ |
|--|---|---|---|---|
| CAB CAB CAB DAC DAC DAC DAC DAC DAC DAC DAC DAC DAC | UMTS-FDD (WCDMA) IEEE 802.11b W/FI 24 GHz (DSSS, 1 Mbps) IEEE 802.11b W/FI 24 GHz (DSSS-0FDM, 6 Mbps) GSM-FDD (TDMA, GMSK) GPRS-FDD (TDMA, GMSK, TN 0) GPRS-FDD (TDMA, GMSK, TN 0) EDGE-FDD (TDMA, GMSK, TN 0-1) EDGE-FDD (TDMA, GMSK, TN 0-1) GPRS-FDD (TDMA, GMSK, TN 0-1-2.2) EDGE-FDD (TDMA, GMSK, TN 0-1-2.3) EDGE-FDD (TDMA, GMSK, TN 0-1-2.2) IEEE 802.15, 1 Bluetooth (GFSK, DH1) IEEE 802.15, 1 Bluetooth (GFSK, DH3) | WCDMA WLAN VVLAN GSM GSM GSM GSM GSM GSM GSM GSM Bluetooth | 2.91 1.87 9.46 9.39 9.57 6.56 12.62 9.55 4.80 3.55 7.78 | ± 9.6 % ± 9.6 % |
| CAB CAB CAB DAC DAC DAC DAC DAC DAC DAC DAC DAC DAC | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) GSM-FDD (TDMA, GMSK) GPRS-FDD (TDMA, GMSK, TN 0) GPRS-FDD (TDMA, GMSK, TN 0-1) EDGE-FDD (TDMA, BPSK, TN 0-1) EDGF-FDD (TDMA, BPSK, TN 0-1-2) GPRS-FDD (TDMA, GMSK, TN 0-1-2) EDGE-FDD (TDMA, GMSK, TN 0-1-2) IEEE 802.15, 1 Bluetooth (GFSK, DH1) IEEE 802.15, 1 Bluetooth (GFSK, DH3) | WLAN WLAN GSM GSM GSM GSM GSM GSM GSM GSM Bluetooth | 1.87 9.46 9.39 9.57 6.56 12.62 9.55 4.80 3.55 7.78 | ± 9.6 % ± 9.6 % |
| CAB CAB DAC DAC DAC DAC DAC DAC DAC DAC DAC DAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 8 Mbps) GSM-FDD (TDMA, GMSK) GPRS-FDD (TDMA, GMSK, TN 0) GPRS-FDD (TDMA, GMSK, TN 0-1) EDGE-FDD (TDMA, BPSK, TN 0-1) EDGE-FDD (TDMA, GMSK, TN 0-1) GPRS-FDD (TDMA, GMSK, TN 0-1) EDGE-FDD (TDMA, GMSK, TN 0-1) EDGE-FDD (TDMA, GMSK, TN 0-12) GPRS-FDD (TDMA, GMSK, TN 0-1-23) EDGE-FDD (TDMA, GMSK, TN 0-1-2) IEEE 802.15.1 Bluetooth (GFSK, DH1) IEEE 802.15.1 Bluetooth (GFSK, DH3) | WLAN GSM GSM GSM GSM GSM GSM GSM GSM Bluetooth | 9.46 9.39 9.57 6.56 12.62 9.55 4.80 3.55 7.78 | ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % |
| CAB DAC DAC DAC DAC DAC DAC DAC DAC DAC DAC | GSM-FDD (TDMA, GMSK) GPRS-FDD (TDMA, GMSK, TN 0) GPRS-FDD (TDMA, GMSK, TN 0) EDGE-FDD (TDMA, BPSK, TN 0-1) EDGE-FDD (TDMA, BPSK, TN 0-1) GPRS-FDD (TDMA, GMSK, TN 0-1-2) EDGE-FDD (TDMA, GMSK, TN 0-1-2) IEEE 802.15.1 Bluetooth (GFSK, DH1) IEEE 802.15.1 Bluetooth (GFSK, DH3) | GSM GSM GSM GSM GSM GSM GSM GSM Bluetooth | 9.39 9.57 6.56 12.62 9.55 4.80 3.55 7.78 | ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % |
| DAC DAC DAC DAC DAC DAC DAC DAC DAC DAC | GPRS-FDD (TDMA, GMSK, TN 0) GPRS-FDD (TDMA, GMSK, TN 0-1) EDGE-FDD (TDMA, BPSK, TN 0) EDGE-FDD (TDMA, BPSK, TN 0-11) GPRS-FDD (TDMA, GMSK, TN 0-1-2) GPRS-FDD (TDMA, GMSK, TN 0-1-2.3) EDGE-FDD (TDMA, BPSK, TN 0-1-2.3) EDGE-FDD (TDMA, GMSK, TN 0-1-2.3) EDEE 802.15.1 Bluetooth (GFSK, DH1) EEE 802.15.1 Bluetooth (GFSK, DH3) | GSM GSM GSM GSM GSM GSM GSM Bluetooth | 9.57 6.56 12.62 9.55 4.80 3.55 7.78 | ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % |
| DAC DAC DAC DAC DAC DAC DAC DAC DAC DAC | GPRS-FDD (TDMA, GMSK. TN 0-1) EDGE-FDD (TDMA, BPSK, TN 0) EDGE-FDD (TDMA, BPSK, TN 0-1) GPRS-FDD (TDMA, GMSK, TN 0-1-2) GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) EDGE-FDD (TDMA, BPSK, TN 0-1-2) IEEE 802.15.1 Bluetoon(FGSK, DH1) IEEE 802.15.1 Bluetoon(FGSK, DH3) | GSM GSM GSM GSM GSM GSM Bluetooth | 6.56 12.62 9.55 4.80 3.55 7.78 | ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % |
| DAC DAC DAC DAC DAC DAC DAC DAC CAA CAA | EDGE-FDD (TDMA, 8PSK, TN 0) EDGE-FDD (TDMA, 8PSK, TN 0-1) GPRS-FDD (TDMA, GMSK, TN 0-1-2) GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) EDGE-FDD (TDMA, BPSK, TN 0-1-2) IEEE 802.15.1 Bluetooth (GFSK, DH1) IEEE 802.15.1 Bluetooth (GFSK, DH3) | GSM GSM GSM GSM GSM Bluetooth | 12.62 9.55 4.80 3.55 7.78 | ±9.6 % ±9.6 % ±9.6 % ±9.6 % |
| DAC DAC DAC DAC DAC DAC CAA CAA CAA CAA | EDGE-FDD (TDMA, 8PSK, TN 0-1) GPRS-FDD (TDMA, GMSK, TN 0-1-2) GPRS-FDD (TDMA, GMSK, TN 0-1-2, 3) EDGE-FDD (TDMA, 8PSK, TN 0-1-2) IEEE 802.15.1 Bluetooth (GFSK, DH1) IEEE 802.15.1 Bluetooth (GFSK, DH3) | GSM GSM GSM GSM Bluetooth | 9.55 4.80 3.55 7.78 | ± 9.6 % ± 9.6 % ± 9.6 % |
| DAC DAC DAC DAC CAA CAA CAA CAA CAA CAA | GPRS-FDD (TDMA, GMSK, TN 0-1-2) GPRS-FDD (TDMA, GMSK, TN 0-1-23) EDGE-FDD (TDMA, BPSK, TN 0-1-2) IEEE 802.15.1 Bluetooth (GFSK, DH1) IEEE 802.15.1 Bluetooth (GFSK, DH3) | GSM GSM GSM Bluetooth | 4.80 3.55 7.78 | ±9.6 % |
| DAC DAC DAC CAA CAA CAA CAA CAA CAA | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) EDGE-FDD (TDMA, BPSK, TN 0-1-2) IEEE 802-15-1 Bluetooth (GFSK, DH1) IEEE 802-15-1 Bluetooth (GFSK, DH3) | GSM GSM Bluetooth | 3.55 7.78 | ± 9.6 % |
| DAC DAC CAA CAA CAA CAA CAA CAA | EDGE-FDD (TDMA, 8PSK, TN 0-1-2) IEEE 802.15.1 Bluetooth (GFSK, DH1) IEEE 802.15.1 Bluetooth (GFSK, DH3) | GSM Bluetooth | 7.78 | |
| DAC CAA CAA CAA CAA CAA CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1) IEEE 802.15.1 Bluetooth (GFSK, DH3) | Bluetooth | | - |
| CAA CAA CAA CAA CAA CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1) IEEE 802.15.1 Bluetooth (GFSK, DH3) | | | ±9.6 % |
| CAA CAA CAA CAA CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3) | Divatentis | 5.30 | ±9.6 % |
| CAA CAA CAA CAA | | Bluetooth | 1.87 | ± 9.6 % |
| CAA CAA CAA | | Bluetooth | 1.16 | ± 9.6 % |
| CAA CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1) | Bluetooth | 7.74 | ± 9.6 9 |
| CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3) | Bluetooth | 4.53 | ± 9.6 % |
| | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5) | Bluetooth | 3.83 | ± 9.6 9 |
| | IEEE 802 15.1 Bluetooth (8-DPSK, DH1) | Bluetooth | 8.01 | ± 9.6 9 |
| CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3) | Bluetooth | 4.77 | ± 9.6 9 |
| CAA | IEEE 802 15.1 Bluetooth (8-DPSK, DH5) | Bluetooth | 4.10 | ± 9.6 9 |
| CAB | CDMA2000 (1xRTT, RC1) | CDMA2000 | 4.57 | ± 9.6 % |
| CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrale) | AMPS | 7.78 | ± 9.6 9 |
| GAA | IS-91/EIA/TIA-553 FDD (FDMA, FM) | AMPS | 0.00 | ± 9.6 9 |
| CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24) | DECT | 13.80 | ± 9.6 9 |
| CAA | DECT (TDD, TDMA/FDM, GFSK, Double Stot, 12) | DECT | 10.79 | ± 9.6 9 |
| CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps) | TD-SCDMA | 11.01 | ± 9.6 |
| DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) | GSM | 6.52 | ± 9.6 |
| CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) | WLAN | 2.12 | ± 9.6 |
| CAB | IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps) | WLAN | 2.83 | ±9.6 |
| | | WLAN | | ± 9.6 |
| | | 1.6.377.773 | | ± 9.6 |
| | | | | ±9.6 |
| | | 11-1-1-1 | | ± 9.6 |
| | | | | ± 9.6 |
| | | | | ± 9.6 |
| | | | | ±9.6 |
| | | | | ± 9.6 |
| | | | | ± 9.6 |
| | | | 1916.5 | ± 9.6 |
| | | 1.1.400 0.1 | | ± 9.6 |
| | | | | ± 9.6 |
| | | | | ± 9.6 |
| | | | | ± 9.6 |
| | | | 1.19974 | ± 9.6 |
| - | | | | ± 9.6 |
| _ | | | | 19.6 |
| | | | | ± 9.6 |
| | | | | ± 9.6 |
| | The second | | | ± 9.6 |
| | | and the second se | | ±9.6 |
| | CAB CAD CAB | Display IEEE 802.11a/n WiFI 5 GHz (OFDM, 6 Mbps) IAD IEEE 802.11a/n WiFI 5 GHz (OFDM, 9 Mbps) IAD IEEE 802.11a/n WiFI 5 GHz (OFDM, 12 Mbps) IAD IEEE 802.11a/n WiFI 5 GHz (OFDM, 12 Mbps) IAD IEEE 802.11a/n WiFI 5 GHz (OFDM, 12 Mbps) IAD IEEE 802.11a/n WiFI 5 GHz (OFDM, 12 Mbps) IAD IEEE 802.11a/n WiFI 5 GHz (OFDM, 12 Mbps) IAD IEEE 802.11a/n WiFI 5 GHz (OFDM, 36 Mbps) IEEE 802.11a/n WiFI 5 GHz (OFDM, 36 Mbps) IEEE 802.11a/n WiFI 5 GHz (OFDM, 36 Mbps) IEEE 802.11a/n WiFI 5 GHz (OFDM, 45 Mbps) IEEE 802.11a/n WiFI 5 GHz (OFDM, 44 Mbps) AB IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 12 Mbps) AB IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 48 Mbps) AB IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 36 Mbps) AB IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 36 Mbps) AB IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 36 Mbps) AB IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 48 Mbps) AB IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 48 Mbps) AB IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 48 Mbps) AB IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 48 Mbps) AB IEEE 802 | AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 6 Mbps) WLAN AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 9 Mbps) WLAN AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 12 Mbps) WLAN AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 12 Mbps) WLAN AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 12 Mbps) WLAN AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 12 Mbps) WLAN AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 24 Mbps) WLAN AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 38 Mbps) WLAN AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 48 Mbps) WLAN AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 48 Mbps) WLAN AB IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 12 Mbps) WLAN AB IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 14 Mbps) WLAN AB IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 24 Mbps) WLAN AB IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps) WLAN AB IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps) WLAN AB IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps) WLAN AB IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps) | AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 6 Mbps) WLAN 8.68 AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 9 Mbps) WLAN 8.63 AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 12 Mbps) WLAN 9.09 AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 12 Mbps) WLAN 9.09 AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 12 Mbps) WLAN 9.00 AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 24 Mbps) WLAN 9.01 AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 36 Mbps) WLAN 10.12 AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 36 Mbps) WLAN 10.24 AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 45 Mbps) WLAN 10.24 AD IEEE 802.11a/n WIFI 5 GHz (OFDM, 45 Mbps) WLAN 9.62 AB IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 12 Mbps) WLAN 9.62 AB IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps) WLAN 9.62 AB IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps) WLAN 10.37 AB IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps) WLAN 10.37 AB |

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| 10099 | CAC | EDGE-FDD (TDMA, 8PSK, TN 0-4) | GSM | 9.55 | ± 9.6 % |
|-------|-----|--|---------|-------|---------|
| 10100 | CAC | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-FDD | 5.67 | ± 9.6 % |
| 10101 | CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-FDD | 6.42 | ± 9.6 % |
| 10102 | CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | ± 9.6 % |
| 10103 | DAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-TDD | 9.29 | ± 9.6 % |
| 10104 | CAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.97 | ±9.6 % |
| 10105 | CAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-TDD | 10.01 | ±9.6 % |
| 10108 | CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-FDD | 5.80 | ±9.6 % |
| 10109 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | ± 9.6 % |
| 10110 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | LTE-FDD | 5.75 | ± 9.6 % |
| 10111 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | LTE-FDD | 6.44 | ± 9.6 % |
| 10112 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | LTE-FDD | 6.59 | ± 9.6 % |
| 10113 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | LTE-FDD | 6.62 | ±9.6 % |
| 10114 | CAG | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) | WLAN | 8.10 | ±9.6 % |
| 10115 | CAG | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) | WLAN | 8.46 | ± 9.6 % |
| 10116 | CAG | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | WLAN | 8.15 | ± 9.6 % |
| 10117 | CAG | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) | WLAN | 8.07 | ± 9.6 % |
| 10118 | CAD | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM) | WLAN | 8.59 | ± 9.6 % |
| 10119 | CAD | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) | WLAN | 8.13 | ± 9.6 % |
| 10140 | CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-FDD | 6,49 | ± 9.6 % |
| 10141 | CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.53 | ± 9.6 % |
| 10142 | CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10143 | CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-FDD | 6.35 | ± 9.6 % |
| 10144 | CAC | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.65 | ± 9.6 % |
| 10145 | CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.76 | ±9.6 % |
| 10146 | CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.41 | ± 9.6 % |
| 10147 | CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.72 | ±9.6 % |
| 10149 | CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-FDD | 6.42 | ± 9.6 % |
| 10150 | CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | ± 9.6 % |
| 10151 | CAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-TDD | 9.28 | ± 9.6 % |
| 10152 | CAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.92 | ± 9.6 % |
| 10153 | CAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-TDD | 10.05 | ± 9.6 % |
| 10154 | CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-FDD | 5.75 | ± 9.6 % |
| 10155 | CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | ± 9.6 % |
| 10156 | CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-FDD | 5.79 | ± 9.6 % |
| 10157 | CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-FDD | 6.49 | ± 9.6 % |
| 10158 | CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-FDD | 6.62 | ± 9.6 % |
| 10159 | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | LTE-FOD | 6,56 | ± 9.6 % |
| 10160 | CAG | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-FDD | 5.82 | ± 9.6 % |
| 10161 | CAG | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | LTE-FDD | 6.43 | ± 9.6 % |
| 10162 | CAG | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | LTE-FDD | 6,58 | ± 9.6 % |
| 10166 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.46 | ± 9.6 % |
| 10167 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.21 | ± 9.6 % |
| 10168 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.79 | ± 9.6 % |
| 10169 | CAG | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10170 | CAG | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10171 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-FDD | 6.49 | ±9.6 % |
| 10172 | CAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-TDD | 9,21 | ± 9.6 % |
| 10173 | CAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10174 | CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10175 | CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-FDD | 5.72 | ± 9.6 % |
| 10176 | CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10177 | CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-FDD | 5.73 | ±9.6 % |
| 10178 | CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 9 |
| 10179 | AAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-FDD | 6.50 | ±9.6 % |
| 10180 | CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 9 |

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| 10181 | CAG | LTE-FOD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-FDD | 5.72 | ± 9.6 % |
|-------|-----|---|---------|-------|---------|
| 10182 | CAG | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10183 | CAG | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 54-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10184 | CAG | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, OPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10185 | CAI | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 18-QAM) | LTE-FDD | 6.51 | ± 9.6 % |
| 10186 | CAG | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10187 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10188 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10189 | CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10193 | CAE | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) | WLAN | 8.09 | ± 9.6 % |
| 10194 | AAD | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | WLAN | 8.12 | ± 9.6 % |
| 10195 | CAE | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | WLAN | 8.21 | ± 9.6 % |
| 10196 | CAE | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) | WLAN | 8.10 | ± 9.6 % |
| 10197 | AAE | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) | WLAN | 8.13 | ± 9.6 % |
| 10198 | CAF | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) | WLAN | 8.27 | ± 9.6 % |
| 10219 | CAF | IEEE 802,11n (HT Mixed, 7.2 Mbps, BPSK) | WLAN | 8.03 | ± 9.6 % |
| 10220 | AAF | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) | WLAN | 8.13 | ± 9.6 % |
| 10221 | CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps; 64-QAM) | WLAN | 8.27 | ± 9.6 % |
| 10222 | CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) | WLAN | 8.06 | ± 9.6 % |
| 10223 | CAD | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) | WLAN | 8.48 | ± 9.6 % |
| 10224 | CAD | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | WLAN | 8.08 | ± 9.6 % |
| 10225 | CAD | UMTS-FDD (HSPA+) | WCDMA | 5.97 | ± 9.6 % |
| 10226 | CAD | LTE-TDD (SC-FDMA, 1 RB, 1,4 MHz, 16-QAM) | LTE-TDD | 9.49 | ± 9.6 % |
| 10227 | CAD | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.26 | ± 9.6 % |
| 10228 | CAD | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-TDD | 9.22 | ±9.6 % |
| 10229 | DAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-TDD | 9.48 | ±9.69 |
| 10230 | CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-TDD | 10.25 | ±9.6 % |
| 10231 | CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-TDD | 9,19 | ± 9.6 % |
| 10232 | CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-TDD | 9.48 | ±9.6 % |
| 10233 | CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 84-QAM) | LTE-TOD | 10.25 | ± 9.6 % |
| 10234 | CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 9 |
| 10235 | CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 9 |
| 10236 | CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-TOD | 10.25 | +9.6 % |
| 10237 | CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 9 |
| 10238 | CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-TDD | 9.48 | +9.6 9 |
| 10239 | CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 9 |
| 10240 | CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-TDD | 9,21 | ± 9.6 9 |
| 10241 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, 16-QAM) | LTE-TDD | 9.82 | ± 9.6 9 |
| 10242 | CAD | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 9.86 | ± 9.6 9 |
| 10243 | CAD | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-TDD | 9,46 | ± 9.6 9 |
| 10244 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| 10245 | CAG | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| 10246 | CAG | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-TDD | 9.30 | ± 9.6 9 |
| 10247 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-TDD | 9.91 | ± 9.6 9 |
| 10248 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | LTE-TDD | 10.09 | ± 9.6 ° |
| 10249 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-TDD | 9.29 | ± 9.6 % |
| 10250 | CAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.81 | ± 9.6 9 |
| 10251 | CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-TDD | 10.17 | ± 9.6 % |
| 10252 | CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-TDD | 9.24 | ± 9.6 ° |
| 10253 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | LTE-TDD | 9.90 | ± 9.6 5 |
| 10254 | CAP | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | LTE-TOD | 10.14 | ± 9.6 |
| 10255 | CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-TDD | 9.20 | ± 9.6 9 |
| 10256 | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.96 | ± 9.6 |
| 10257 | CAD | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.08 | ± 9.6 |
| 10258 | CAD | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-TOD | 9.34 | ± 9.6 |
| 10259 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-TOD | 9.98 | ± 9.6 |

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| 10260 | CAG | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-TDD | 9,97 | ± 9.6 % |
|-------|-----|---|----------|-------|---------|
| 10261 | CAG | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-TOD | 9.24 | ± 9.6 % |
| 10262 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | LTE-TDD | 9.83 | ± 9.6 % |
| 10263 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | LTE-TDD | 10.16 | ± 9.6 % |
| 10264 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | LTE-TDD | 9.23 | ± 9.6 % |
| 10265 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.92 | ± 9.6 % |
| 10266 | CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | LTE-TDD | 10.07 | ± 9.6 % |
| 10267 | CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-TOD | 9.30 | ± 9.6 % |
| 10268 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 18-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| 10269 | CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-TDD | 10.13 | ±9,6 % |
| 10270 | CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-TDD | 9.58 | ± 9.6 % |
| 10274 | CAB | UMTS-FDD (HSUPA, Sublest 5, 3GPP Rel8.10) | WCDMA | 4,87 | ± 9.6 % |
| 10275 | CAD | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) | WCDMA | 3.96 | ±9.6 % |
| 10277 | CAD | PHS (QPSK) | PHS | 11.81 | ± 9.6 % |
| 10278 | CAD | PHS (QPSK, BW 884MHz, Rolloff 0.5) | PHS | 11.81 | ± 9.6 % |
| 10279 | CAG | PHS (QPSK, BW 884MHz, Rolloff 0.38) | PHS | 12.18 | ± 9.6 % |
| 10290 | CAG | CDMA2000, RC1, SO55, Full Rate | CDMA2000 | 3.91 | ± 9.6 % |
| 10291 | CAG | CDMA2000, RC3, SO55, Full Rate | CDMA2000 | 3.46 | ± 9.6 % |
| 10292 | CAG | CDMA2000, RC3, SO32, Full Rate | CDMA2000 | 3.39 | ± 9.6 9 |
| 10293 | CAG | CDMA2000, RC3, SO3, Full Rate | CDMA2000 | 3.50 | ±9.69 |
| 10295 | CAG | CDMA2000, RC1, SO3, 1/8th Rate 25 fr. | CDMA2000 | 12.49 | ±9.69 |
| 10297 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-FDD | 5.81 | ±9.6 9 |
| 10298 | CAF | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-FDD | 5.72 | ± 9.6 9 |
| 10299 | CAF | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-FDD | 6.39 | ± 9.6 % |
| 10300 | CAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.60 | ± 9.6 9 |
| 10301 | CAC | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) | WIMAX | 12.03 | ± 9.6 % |
| 10302 | CAB | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL) | WIMAX | 12.57 | ± 9.6 % |
| 10303 | CAB | IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC) | WIMAX | 12.52 | ± 9.6 9 |
| 10304 | CAA | IEEE 802,16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) | WIMAX | 11.86 | ± 9.6 % |
| 10305 | CAA | IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC) | WiMAX | 15.24 | ± 9.6 9 |
| 10306 | CAA | IEEE 802,16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) | WIMAX | 14.67 | ± 9.6 % |
| 10307 | AAB | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC) | WIMAX | 14.49 | ± 9.6 9 |
| 10308 | AAB | IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) | WiMAX | 14.46 | ± 9.6 % |
| 10309 | AAB | IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3) | WIMAX | 14.58 | ± 9.6 9 |
| 10310 | AAB | IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3 | WIMAX | 14.57 | ± 9.6 ° |
| 10311 | AAB | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-FDD | 6.06 | ± 9.6 ° |
| 10313 | AAD | IDEN 1:3 | IDEN | 10.51 | ± 9.6 ° |
| 10314 | AAD | IDEN 1:6 | IDEN | 13.48 | ± 9.6 9 |
| 10315 | AAD | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc) | WLAN | 1.71 | ± 9.6 ° |
| 10316 | AAD | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc) | WLAN | 8.36 | ± 9.6 ° |
| 10317 | AAA | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc) | WLAN | 8.36 | ± 9.6 |
| 10352 | AAA | Pulse Waveform (200Hz, 10%) | Generic | 10.00 | ±9.6 |
| 10353 | AAA | Pulse Waveform (200Hz, 20%) | Generic | 6.99 | ±9.6 |
| 10354 | AAA | Pulse Waveform (200Hz, 40%) | Generic | 3.98 | ±9.61 |
| 10355 | AAA | Pulse Waveform (200Hz, 60%) | Generic | 2.22 | ±9.6 |
| 10356 | AAA | Pulse Waveform (200Hz, 80%) | Generic | 0.97 | ± 9.6 |
| 10387 | AAA | QPSK Waveform, 1 MHz | Generic | 5.10 | ± 9.6 |
| 10388 | AAA | QPSK Waveform, 10 MHz | Generic | 5.22 | ± 9.6 |
| 10396 | AAA | 64-QAM Waveform, 100 kHz | Generic | 6.27 | ± 9.6 |
| 10399 | AAA | 64-QAM Waveform, 40 MHz | Generic | 6.27 | ± 9.6 |
| 10400 | AAA | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc) | WLAN | 8.37 | ± 9.6 |
| 10400 | AAA | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc) | WLAN | 8.60 | ± 9.6 |
| 10402 | AAA | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc) | WLAN | 8.53 | ± 9.6 |
| 10403 | AAB | CDMA2000 (1xEV-DO, Rev. 0) | CDMA2000 | 3.76 | ± 9.6 |
| 10403 | AAB | CDMA2000 (1xEV-DO, Rev. 0) CDMA2000 (1xEV-DO, Rev. A) | CDMA2000 | 3.77 | ± 9.6 |
| 10404 | AAB | CDMA2000, RC3, SO32, SCH0, Full Rate | CDMA2000 | 5.22 | ± 9.6 |

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| 10410 | AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9) | LTE-TDD | 7.82 | ± 9.6 % |
|-------|-----|--|----------|-------|---------|
| 10414 | AAA | WLAN CCDF, 64-QAM, 40MHz | Generic | 8.54 | ± 9.6 9 |
| 10415 | AAA | IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 99pc dc) | WLAN | 1.54 | ± 9.6 9 |
| 10416 | AAA | IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc) | WLAN | 8.23 | ± 9.6 9 |
| 10417 | AAA | IEEE 802.11a/n WIFI 5 GHz (OFDM, 6 Mbps, 99pc dc) | WLAN | 8.23 | ± 9.6 % |
| 10418 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long) | WLAN | 8.14 | ± 9.6 % |
| 10419 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short) | WLAN | 8.19 | ± 9.6 |
| 10422 | AAA | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) | WLAN | 8.32 | ± 9.6 |
| 10423 | AAA | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 15-QAM) | WLAN | 8.47 | ± 9.6 |
| 10424 | AAE | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) | WLAN | 8.40 | ±9.6 ° |
| 10425 | AAE | IEEE 802,11n (HT Greenfield, 15 Mbps, BPSK) | WLAN | 8.41 | ± 9.6 ° |
| 10426 | AAF | IEEE 802,11n (HT Greenfield, 90 Mbps, 16-QAM) | WLAN | 8.45 | ±9.6 |
| 10427 | AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) | WLAN | 8.41 | ± 9.6 |
| 10430 | AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) | LTE-FDD | 8.28 | ±9.6 |
| 10431 | AAC | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) | LTE-FDD | 8.38 | ± 9.6 9 |
| 10432 | AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) | LTE-FDD | 8.34 | ± 9.6 |
| 10433 | AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) | LTE-FDD | 8.34 | ± 9.6 ° |
| 10434 | AAG | W-CDMA (BS Test Model 1, 64 DPCH) | WCDMA | 8.60 | ± 9.6 ° |
| 10435 | AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 |
| 10447 | AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.56 | ± 9.6 |
| 10448 | AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%) | LTE-FDD | 7.53 | ±9.6 |
| 10449 | AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%) | LTE-FDD | 7.51 | ± 9.6 |
| 10450 | AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.48 | ± 9.61 |
| 10451 | AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%) | WCDMA | 7.59 | ±9.61 |
| 10453 | AAA | Validation (Square, 10ms, 1ms) | Test | 10.00 | ±9.6 |
| 10456 | AAC | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc) | WLAN | 8.63 | ± 9.6 |
| 10450 | AAC | UMTS-FDD (DC-HSDPA) | WCDMA | 6.62 | ± 9.6 |
| 10458 | AAC | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) | CDMA2000 | 6.55 | ±9.6 |
| 10459 | | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) | CDMA2000 | 8.25 | ±9.6 |
| 10460 | AAC | UMTS-FDD (WCDMA, AMR) | WCDMA | 2.39 | ± 9.6 |
| 10460 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, OPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 |
| 10462 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 0FSR, 0L SUD) | LTE-TDD | 8.30 | ± 9.6 |
| 10463 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.56 | ±9.6 |
| 10464 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 |
| 10465 | | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | 19.6 |
| 10466 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 10 QAM, UL Sub) | LTE-TOD | 8.57 | 19.6 |
| 10467 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | 19.6 |
| 10468 | AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | 19.6 |
| 10469 | | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.56 | |
| 10470 | AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9,6 |
| 10471 | AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 |
| 10472 | AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 10-QAM, UL Sub) | LTE-TDD | 8.32 | |
| 10473 | | LTE-TDD (SC-FDMA, TRB, 10 MHZ, 04-QAM, 0L SUD) | LTE-TDD | 7.82 | ± 9.6 |
| 10474 | AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, 0L Sub) | LTE-TDD | 8.32 | ± 9.6 |
| 10475 | AAC | LTE-TDD (SC-FDMA, TRB, 15 MHz, 10-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 |
| 10475 | AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub) | LTE-TOD | 8.57 | ± 9.6 |
| 10478 | AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 10-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 |
| 10479 | AAC | LTE-TDD (SC-FDMA, TRB, 20 MHz, 04-QAM, UL SUD) | LTE-TDD | | ± 9.6 |
| 10480 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, GPSK, 0L Sdb) | LTE-TDD | 7.74 | ± 9,6 |
| 10480 | AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.18 | ±9.6 |
| 10481 | AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.45 | ± 9.6 |
| 10482 | AAA | | | 7.71 | ± 9.6 |
| | AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub) | LTE-TDD | 8.39 | ± 9.6 |
| 10484 | AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.47 | ± 9.6 |
| 10485 | AAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub) | LTE-TDD | 7.59 | ± 9.6 |
| 10.00 | AAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.38 | ± 9.6 1 |
| 10487 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.60 | ± 9.6 |

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| 10488 | AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.70 | ± 9.6 % |
|----------------|-----|--|-----------|------|---------|
| 10489 | AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.31 | ± 9.6 % |
| 10490 | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub) | LTE-TOD | 8.54 | ± 9.6 % |
| 10491 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10492 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.41 | ± 9.6 % |
| 10493 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.55 | ± 9.6 % |
| 10494 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10495 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.37 | ± 9.6 % |
| 10496 | AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.54 | ± 9.6 % |
| 10497 | AAE | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub) | LTE-TDD | 7.67 | ± 9.6 % |
| 10498 | AAE | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.40 | ± 9.6 % |
| 10499 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1,4 MHz, 64-QAM, UL Sub) | LTE-TOD | 8.68 | ± 9.6 % |
| 10500 | AAF | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 7.67 | ±9.6 % |
| 10501 | AAF | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.44 | ± 9.6 % |
| 10502 | AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub) | LTE-TOD | 8.52 | ± 9.6 % |
| 10503 | AAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub) | LTE-TOD | 7.72 | ± 9.6 % |
| 10504 | AAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.31 | ± 9.6 % |
| 10505 | AAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub) | LTE-TOD | 8.54 | ± 9.6 % |
| 10506 | AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10507 | AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub) | LTE-TOD | 8.36 | ± 9.6 % |
| 10508 | AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub) | LTE-TOD | 8.55 | ± 9.6 % |
| 10509 | - | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub) | LTE-TOD | 7.99 | ± 9.6 % |
| 10509 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.49 | ± 9.6 % |
| 10510 | | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 10 QAM, UL Sub) | LTE-TOD | 8.51 | ± 9.6% |
| 10512 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 0F-GAM, 0E Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10512 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, GFSR, 0C Stub) | LTE-TDD | 8.42 | ± 9.6 % |
| | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 10 GAM, UL Sub) | LTE-TDD | 8.45 | ± 9.6 % |
| 10514 10515 | AAE | IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps, 99pc dc) | WLAN | 1.58 | ± 9.6 9 |
| 10515 | AAE | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc) | WLAN | 1.57 | ± 9.6 % |
| 10516 | AAE | IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc) | WLAN | 1.58 | ± 9.6 9 |
| | AAF | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc) | WLAN | 8.23 | ± 9.6 % |
| 10518 | AAF | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mops, 99pc dc) | WLAN | 8.39 | ± 9.6 % |
| | AAF | And a set of the set o | WLAN | 8.12 | ± 9.6 % |
| 10520 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc) | WLAN | 7.97 | ± 9.6 % |
| 10521 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc) | WLAN | 8.45 | |
| 10522 | AAB | IEEE 802 11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc) | WLAN | | ± 9.6 9 |
| 10523 | AAC | IEEE 802.11a/n WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc) | | 8.08 | ± 9.6 % |
| 10524 | AAC | IEEE 802.11a/n WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc) | WLAN | 8.27 | ± 9.6 % |
| 10525 | AAC | IEEE 802.11ac WIFI (20MHz, MCS0, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10526 | AAF | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10527 | AAF | IEEE 802.11ac WiFI (20MHz, MCS2, 99pc dc) | WLAN | 8.21 | ± 9.6 % |
| 10528 | AAF | IEEE 802.11ac WIFI (20MHz, MCS3, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10529 | AAF | IEEE 802.11ac WIFI (20MHz, MCS4, 99pc dc) | WLAN WLAN | 8.36 | ± 9.6 % |
| 10531 | AAF | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc) | · | 8.43 | ± 9.6 % |
| 10532 | AAF | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10533 | AAE | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc) | WLAN | 8.38 | ± 9.6 % |
| 10534 | AAE | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc) | WLAN | 8.45 | ± 9.6 ° |
| 10535 | AAE | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc) | WLAN | 8.45 | ±9.6 9 |
| 10536 | AAF | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc) | WLAN | 8.32 | ± 9.6 % |
| 10537 | AAF | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc) | WLAN | 8.44 | ± 9.6 9 |
| 10538 | AAF | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc) | WLAN | 8.54 | ± 9.6 % |
| 10540 | AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc) | WLAN | 8.39 | ± 9.6 ° |
| 10541 | AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc) | WLAN | 8.46 | ± 9.6 ° |
| 10542 | AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc) | WLAN | 8.65 | ± 9.6 ° |
| 10543 | AAC | IEEE 802,11ac WiFi (40MHz, MCS9, 99pc dc) | WLAN | 8.65 | ±9.6 % |
| 10544 | AAC | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc) | WLAN | 8.47 | ± 9.6 |
| 10545 | AAC | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc) | WLAN | 8.55 | ± 9.6 |

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| 10546 | AAC | IEEE 802.11ac WiFI (80MHz, MCS2, 99pc dc) | WLAN | 8.35 | ± 9.6 % |
|-------|-----|---|-------|------|---------|
| 10547 | AAC | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10548 | AAC | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc) | WLAN | 8,37 | ± 9.6 % |
| 10550 | AAC | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc) | WLAN | 8,38 | ± 9.6 % |
| 10551 | AAC | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc) | WLAN | 8,50 | ±9.6 % |
| 10552 | AAC | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10553 | AAC | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc) | WLAN | 8,45 | ±9.6 % |
| 10554 | AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc) | WLAN | 8.48 | ± 9.6 % |
| 10555 | AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc) | WLAN | 8.47 | ± 9.6 % |
| 10556 | AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc) | WLAN | 8.50 | ± 9.6 % |
| 10557 | AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc) | WLAN | 8.52 | ± 9.6 % |
| 10558 | AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc) | WLAN | 8.61 | ± 9.6 % |
| 10560 | AAC | IEEE 802.11ac WIFI (160MHz, MCS6, 99pc dc) | WLAN | 8.73 | ± 9,6 % |
| 10561 | AAC | IEEE 802.11ac WIFI (160MHz, MCS7, 99pc dc) | WLAN | 8.56 | ± 9.6 % |
| 10562 | AAC | 1EEE 802.11ac WiFi (160MHz, MCS8, 99pc dc) | WLAN | 8.69 | ± 9.6 % |
| 10563 | AAC | IEEE 802.11ac WIFI (160MHz, MCS9, 99pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10564 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10565 | AAC | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10566 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc) | WLAN | 8.13 | ± 9.6 % |
| 10567 | AAC | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc) | WLAN | 8.00 | ± 9.6 % |
| 10568 | AAC | IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc) | WLAN | 8.37 | ±9.6% |
| 10569 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc) | WLAN | 8.10 | ± 9.6 % |
| 10570 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc) | WLAN | 8.30 | ±9.6 % |
| 10571 | AAC | IEEE 802.11b WIFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc) | WLAN | 1.99 | ± 9.6 % |
| 10572 | AAC | IEEE 802.11b WIFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc) | WLAN | 1.99 | ±9.6 % |
| 10573 | AAC | IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc) | WLAN | 1.98 | ± 9.6 % |
| 10574 | AAC | IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 90pc dc) | WLAN | 1.98 | ±9.6 % |
| 10575 | AAC | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc) | WLAN | 8.59 | ± 9.6 % |
| 10576 | AAC | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc) | WLAN | 8.60 | ±9.6 % |
| 10577 | AAC | IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc) | WLAN. | 8.70 | ±9.6 % |
| 10578 | AAD | IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10579 | AAD | IEEE 802.11g WIF) 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10580 | AAD | IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc) | WLAN | 8.76 | ±9.6 % |
| 10581 | AAD | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc) | WLAN | 8.35 | ± 9.6 % |
| 10582 | AAD | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10583 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc) | WLAN | 8.59 | ± 9.6 % |
| 10584 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc) | WLAN | 8.60 | ±9.6 % |
| 10585 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 90pc dc) | WLAN | 8.70 | ± 9.6 9 |
| 10586 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM: 18 Mbps, 90pc dc) | WLAN | 8.49 | ±9.69 |
| 10587 | AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10588 | AAA | IEEE 802.11a/h WiFI 5 GHz (OFDM, 36 Mbps, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
| 10589 | AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc) | WLAN | 8.35 | ± 9.6 % |
| 10590 | AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10591 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) | WLAN | 8.63 | ± 9.6 % |
| 10592 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc) | WLAN | 8.79 | ± 9.6 ° |
| 10593 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) | WLAN | 8.64 | ± 9.6 ° |
| 10594 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10595 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10596 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) | WLAN | 8.71 | ± 9.6 ° |
| 10597 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) | WLAN | 8.72 | ± 9.6 ° |
| 10598 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) | WLAN | 8.50 | ±9.6 ° |
| 10599 | AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) | WLAN | 8.79 | ± 9.6 ° |
| 10600 | AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) | WLAN. | 8.88 | ± 9.6 ° |
| 10601 | AAA | IEEE 802,11n (HT Mixed, 40MHz, MCS2, 90pc dc) | WLAN | B.82 | ±9.6 ° |
| 10602 | AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) | WLAN | 8.94 | ±9.6* |
| 10603 | AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) | WLAN | 9.03 | ±9,6 * |

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| 10604 | AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
|----------------|-----|--|-----------|-------|---------|
| 10605 | AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc) | WLAN | 8.97 | ± 9.6 % |
| 10606 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10607 | AAC | IEEE 802.11ac WiFI (20MHz, MCS0, 90pc dc) | WLAN | 8.64 | ± 9.6 % |
| 10608 | AAC | IEEE 802.11ac WiFI (20MHz, MCS1, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10609 | AAC | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dd) | WLAN | 8.57 | ±9.6 % |
| 10610 | AAC | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc) | WLAN | 8.78 | ± 9.6 % |
| 10611 | AAC | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10612 | AAC | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10613 | AAC | IEEE 802.11ac WiFI (20MHz, MCS6, 90pc dc) | WLAN | 8.94 | ± 9.6 % |
| 10614 | AAC | IEEE 802.11ac WiFI (20MHz, MCS7, 90pc dc) | WLAN | 8.59 | ± 9.6 % |
| 10615 | AAC | IEEE 802 11ac WiFi (20MHz, MCS8, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10616 | AAC | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10617 | AAC | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc) | WLAN | 8.81 | ± 9.6 % |
| 10618 | AAC | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc) | WLAN | 8.58 | ± 9.6 % |
| 10619 | AAC | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc) | WLAN | 8.86 | ± 9.6 % |
| 10620 | AAC | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc) | WLAN | 8.87 | ± 9.6 % |
| 10621 | AAC | IEEE 802.11ac WIFI (40MHz, MCS5, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10622 | AAC | IEEE 802.11ac WIFI (40MHz, MCS6, 90pc dc) | WLAN | 8.68 | ± 9.6 % |
| 10623 | AAC | IEEE 802.11ac WIFI (40MHz, MCS7, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10624 | AAC | IEEE 802.11ac WiFI (40MHz, MCS8, 90pc dc) | WLAN | 8.96 | ± 9.6 % |
| 10625 | AAC | IEEE 802.11ac WIFI (40MHz, MCS9, 90pc dc) | WLAN | 8.96 | ± 9.6 % |
| 10626 | AAC | IEEE 802.11ac WiFI (80MHz, MCS0, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10627 | AAC | IEEE 802.11ac WIFI (80MHz, MCS1, 90pc dc) | WLAN | 8.88 | ± 9.6 % |
| 10628 | AAC | IEEE 802.11ac WIFI (80MHz, MCS2, 90pc dc) | WLAN | 8.71 | ± 9.6 % |
| 10629 | AAC | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc) | WLAN | 8.85 | ±9.6 % |
| 10630 | AAC | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc) | WLAN | 8.72 | ±9.6 % |
| 10631 | AAC | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc) | WLAN | 8.81 | ± 9.6 % |
| 10632 | AAC | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10633 | AAC | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc) | WLAN. | 8.83 | ±9.6 % |
| 10634 | AAC | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc) | WLAN | 8.80 | ± 9.6 % |
| 10635 | AAC | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc) | WLAN | 8.81 | ±9.6 % |
| 10636 | AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10637 | AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc) | WLAN | 8.79 | ±9.6% |
| 10638 | AAC | IEEE 802.11ac WIFi (160MHz, MCS2, 90pc dc) | WLAN | 8.86 | ±9.69 |
| 10639 | AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc) | WLAN | 8.85 | ± 9.6 % |
| 10640 | AAC | IEEE 802.11ac WIFI (160MHz, MCS4, 90pc dc) | WLAN | 8.98 | ± 9.6 % |
| 10641 | AAC | IEEE 802.11ac WIFI (160MHz, MCS5, 90pc dc) | WLAN | 9.06 | ± 9.6 % |
| 10642 | AAC | IEEE 802.11ac WIFI (160MHz, MCS6, 90pc dc) | WLAN | 9.06 | ± 9.6 % |
| 10643 | AAC | IEEE 802.11ac WIFI (160MHz, MCS7, 90pc dc) | WLAN | 8.89 | ± 9.6 % |
| 10644 | AAC | IEEE 802.11ac WIFI (160MHz, MCS8, 90pc dc) | WLAN | 9.05 | ± 9.6 9 |
| 10645 | AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc) | WLAN | 9,11 | ± 9.6 % |
| 10646 | AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7) | LTE-TDD | 11.96 | ± 9.6 ° |
| 10647 | AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7) | LTE-TDD | 11.96 | ±9.6 % |
| 10648 | AAC | CDMA2000 (1x Advanced) | CDMA2000 | 3.45 | ± 9.6 ° |
| 10852 | AAC | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.91 | ±9.6 ° |
| 10653 | AAC | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.42 | ±9.6 9 |
| 10654 | AAC | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | LTE-TOD | 6.96 | ±9.6 ° |
| 10655 | AAC | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.21 | ± 9.6 ° |
| 10658 | AAC | Pulse Waveform (200Hz, 10%) | Test | 10.00 | ±9.6 |
| 10659 | AAC | Pulse Waveform (200Hz, 20%) | Test | 6.99 | ± 9.6 ° |
| 10660 | AAC | Pulse Waveform (200Hz, 40%) | Test | 3.98 | ± 9.6 |
| 10661 | AAC | Pulse Waveform (200Hz, 60%) | Test | 2.22 | ± 9.6 |
| 10662 | AAC | Pulse Waveform (200Hz, 80%) | Test | 0.97 | ± 9.6 ° |
| 10670 | AAC | Bluetooth Low Energy | Bluetooth | 2.19 | ± 9.6 ° |
| 10670 10671 | AAC | Bluetooth Low Energy IEEE 802.11ax (20MHz, MCS0, 90pc dc) | WLAN | 9.09 | |

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| 10672 | 1 | IEEE 802.11ax (20MHz, MCS1, 90pc dd) | WLAN | 8.57 | ± 9.6 % |
|----------------|-----|---|------|------|---------|
| 10672 | AAD | IEEE 802.11ax (20MHz, MCS1, 90pc dd) | WLAN | 8.78 | ± 9.6 % |
| 10673 | AAD | IEEE 802.11ax (20MHz, MCS2, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10674 | AAD | IEEE 802.11ax (20MHz, MCS3, 90pc dc) | WLAN | 8.90 | ± 9.6 % |
| 10675 | AAD | IEEE 802.11ax (20MHz, MCS5, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10676 | AAD | IEEE 802.11ax (20MHz, MCS0, 80pc 0c) | WLAN | 8.73 | ± 9.6 % |
| 10678 | AAD | IEEE 802.11ax (20MHz, MCS0, 80pc dc) | WLAN | 8.78 | ± 9.6 % |
| 10678 | AAD | IEEE 802.11ax (20MHz, MCS8, 90pc dc) | WLAN | 8.89 | ± 9.6 % |
| 10679 | AAD | IEEE 802.11ax (20MHz, MCS9, 90pc dc) | WLAN | 8.80 | ± 9.6 % |
| 10681 | AAD | IEEE 802.11ax (20MHz, MCS3, 80pc dc) | WLAN | 8.62 | ± 9.6 % |
| 10682 | AAG | IEEE 802.11ax (20MHz, MCS10, 800c 80) | WLAN | 8.83 | ±9.6% |
| 10683 | AAF | IEEE 802.11ax (20MHz, MCS0, 99pc dc) | WLAN | 8.42 | ±9.6% |
| 10684 | AAA | IEEE 802.11ax (20MHz, MCS0, 99pc dc) | WLAN | 8.26 | ± 9.6 % |
| 10685 | AAC | IEEE 802.11ax (20MHz, MCS1, 59pc dc) | WLAN | 8.33 | ± 9.6 % |
| 10686 | AAC | IEEE 802.11ax (20MHz, MCS2, 99pc dc) | WLAN | 8.28 | ± 9.6 % |
| 10687 | AAC | IEEE 802.11ax (20MHz, MCS3, 99pc 4c) | WLAN | 8.45 | ± 9.6 % |
| | AAE | IEEE 802.11ax (20MHz, MCS4, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10688 | AAE | IEEE 802.11ax (20MHz, MCS5, 99pc dc) | WLAN | 8.55 | ± 9.6 % |
| 10689 | AAD | IEEE 802.11ax (20MHz, MCS6, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| | AAE | IEEE 802.11ax (20MHz, MCS7, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10691 | AAB | IEEE 802.11ax (20MHz, MCS8, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10692 | AAA | IEEE 802.11ax (20MHz, MCS9, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10693 | AAA | IEEE 802.11ax (20MHz, MCS10, 99pc dc) | WLAN | 8.57 | ± 9.6 % |
| 10694 10695 | AAA | IEEE 802.11ax (20MHz, MCS11, 99pc dc) | WLAN | 8.78 | ± 9.6 % |
| 10695 | AAA | IEEE 802.11ax (40MHz, MCS0, 90pc dc) | WLAN | 8.91 | ± 9.6 % |
| 10690 | AAA | IEEE 802.11ax (40MHz, MCS1, 90pc dc) | WLAN | 8.61 | ± 9.6 % |
| 10698 | AAA | IEEE 802.11ax (40MHz, MCS2, 50pc dc) | WLAN | 8.89 | ± 9.6 % |
| 10699 | AAA | IEEE 802.11ax (40MHz, MCS4, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10700 | AAA | IEEE 802.11ax (40MHz, MCS4, 90pc dc) | WLAN | 8.73 | ± 9.6 % |
| 10701 | AAA | IEEE 802.11ax (40MHz, MCS5, 90pc dc) | WLAN | 8.86 | ± 9.6 % |
| 10702 | AAA | IEEE 802.11ax (40MHz, MCS7, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10702 | AAA | IEEE 802.11ax (40MHz, MCS8, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10704 | | IEEE 802.11ax (40MHz, MCS9, 90pc dc) | WLAN | 8.56 | ± 9.6 % |
| 10705 | AAA | IEEE 802.11ax (40MHz, MCS0, 50pc dc) | WLAN | 8.69 | ± 9.6 9 |
| 10705 | AAA | IEEE 802.11ax (40MHz, MCS10, 50pc dc) | WLAN | 8.66 | ± 9.6 % |
| 10707 | AAC | IEEE 802.11ax (40MHz, MCS) (1, 30pc dc) | WLAN | 8.32 | ± 9.6 % |
| 10708 | AAC | IEEE B02.11ax (40MHz; MCS1, 99pc dc) | WLAN | 8.55 | ± 9.6 % |
| 10709 | AAC | IEEE 802.11ax (40MHz, MCS2, 99pc dc) | WLAN | 8.33 | ± 9.6 % |
| 10710 | AAC | IEEE 802.11ax (40MHz, MCS3, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10711 | AAC | IEEE 802.11ax (40MHz, MCS4, 99pc dc) | WLAN | 8.39 | ± 9.6 9 |
| 10712 | AAC | IEEE 802.11ax (40MHz, MCS5, 99pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10713 | AAC | IEEE 802.11ax (40MHz, MCS6, 99pc dc) | WLAN | 8.33 | ± 9.6 9 |
| 10714 | AAC | IEEE 802.11ax (40MHz, MCS7, 99pc dc) | WLAN | 8.26 | ± 9.6 % |
| 10715 | AAC | IEEE 802.11ax (40MHz, MCS8, 99pc dc) | WLAN | 8.45 | ± 9.6 9 |
| 10716 | AAC | IEEE 802.11ax (40MHz, MCS9, 99pc dc) | WLAN | 8.30 | ±9.6 % |
| 10717 | AAC | IEEE 802.11ax (40MHz, MCS10, 99pc dc) | WLAN | 8.48 | ± 9.6 % |
| 10718 | AAC | IEEE 802.11ax (40MHz, MCS11, 99pc dc) | WLAN | 8.24 | ± 9.6 % |
| 10719 | AAC | IEEE 802.11ax (80MHz, MCS0, 90pc dc) | WLAN | 8.81 | ± 9.6 % |
| 10720 | AAC | IEEE 802.11ax (80MHz, MCS1, 90pc dc) | WLAN | 8.87 | ± 9.6 % |
| 10721 | AAC | IEEE 802.11ax (80MHz, MCS2, 90pc dc) | WLAN | 8.76 | ± 9.6 ° |
| 10722 | AAC | IEEE 802 11ax (80MHz, MCS3, 90pc dc) | WLAN | 8.55 | ± 9.6 ° |
| 10722 | AAC | IEEE 802.11ax (80MHz, MCS4, 90pc dc) | WLAN | 8.70 | ± 9.6 |
| 10724 | AAC | IEEE 802.11ax (80MHz, MCS5, 90pc dc) | WLAN | 8.90 | ± 9.6 |
| 10725 | AAC | IEEE 802.11ax (80MHz, MCS6, 90pc dc) | WLAN | 8.74 | ± 9.6 ° |
| 10726 | AAC | IEEE 802.11ax (80MHz, MCS7, 90pc dc) | WLAN | 8.72 | ± 9.6 ° |
| 10720 | AAC | IEEE 802.11ax (80MHz, MCS8, 90pc dc) | WLAN | 8.66 | ± 9.6 ° |

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| 10728 | AAC | IEEE 802.11ax (80MHz, MCS9, 90pc dc) | WLAN | 8.65 | ± 9.6 % |
|-------|------|---|---------------|------|---------|
| 10729 | AAC | IEEE 802.11ax (80MHz, MCS10, 90pc dc) | WLAN | 8.64 | ± 9.6 % |
| 10730 | AAC | IEEE 802.11ax (80MHz, MCS11, 90pc dc) | WLAN | 8.67 | ±9.6% |
| 10731 | AAC | IEEE 802.11ax (80MHz, MCS0, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10732 | AAC | IEEE 802.11ax (80MHz, MCS1, 99pc dc) | WLAN | 8.46 | ± 9.6 % |
| 10733 | AAC | IEEE 802.11ax (80MHz, MCS2, 99pc dc) | WLAN | 8.40 | ± 9.6 % |
| 10734 | AAC | IEEE 802.11ax (80MHz, MCS3, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10735 | AAC | IEEE 802.11ax (80MHz, MCS4, 99pc dc) | WLAN | 8.33 | ± 9.6 % |
| 10736 | AAC | IEEE 802.11ax (80MHz, MCS5, 99pc dc) | WLAN | 8.27 | ± 9.6 % |
| 10737 | AAC | IEEE 802.11ax (60MHz, MCS6, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10738 | AAC | IEEE 802.11ax (80MHz, MCS7, 99pc dc) | WLAN | 8,42 | ±9.6 % |
| 10739 | AAC | IEEE 802.11ax (80MHz, MCS8, 99pc dc) | WLAN | 8.29 | ±9.6 % |
| 10740 | AAC | IEEE 802.11ax (80MHz, MCS9, 99pc dc) | WLAN | 8.48 | ±9.6 % |
| 10741 | AAC | IEEE 802.11ax (80MHz, MCS10, 99pc dc) | WLAN | 8.40 | ± 9.6 % |
| 10742 | AAC | IEEE 802.11ax (80MHz, MCS11, 99pc dc) | WLAN | 8.43 | ±9.6 % |
| 10743 | AAC | IEEE 802,11ax (160MHz, MCS0, 90pc dc) | WLAN | 8.94 | ±9.6 % |
| 10744 | AAC | IEEE 802.11ax (160MHz, MCS1, 90pc dc) | WLAN | 9.16 | ± 9.6 % |
| 10745 | AAC | IEEE 802.11ax (160MHz, MCS2, 90pc dc) | WLAN | B.93 | ± 9.6 % |
| 10746 | AAC | IEEE 802.11ax (160MHz, MCS3, 90pc dc) | WLAN | 9.11 | ± 9.6 % |
| 10747 | AAC | IEEE 802.11ax (160MHz, MCS4, 90pc dc) | WLAN | 9.04 | ± 9.6 % |
| 10748 | AAC | IEEE 802.11ax (160MHz, MCS5, 90pc dc) | WLAN | 8.93 | ± 9.6 % |
| 10749 | AAC | IEEE 802.11ax (160MHz, MCS6, 90pc dc) | WLAN | 8.90 | ± 9.6 % |
| 10750 | AAC | IEEE 802.11ax (160MHz, MCS7, 90pc dc) | WLAN | 8.79 | ± 9.6 % |
| 10751 | AAC | IEEE 802.11ax (160MHz, MCS8, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10752 | AAC | IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN | 8.81 | ± 9.6 % |
| 10753 | AAC | IEEE 802.11ax (160MHz, MCS10, 90pc dc) | WLAN | 9.00 | ± 9.6 % |
| 10754 | AAC | IEEE 802.11ax (160MHz, MCS11, 90pc dc) | WLAN | 8.94 | ± 9.6 % |
| 10755 | AAC | IEEE 802.11ax (160MHz, MCS0, 99pc dc) | WLAN | 8.64 | ± 9.6 % |
| 10756 | AAC | IEEE 802.11ax (160MHz, MCS1, 99pc dc) | WLAN | 8.77 | ±9.6 % |
| 10757 | AAC | IEEE 802.11ax (160MHz, MCS2, 99pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10758 | AAC | IEEE 802.11ax (160MHz, MCS3, 99pc dc) | WLAN | 8.69 | ± 9.6 % |
| 10759 | AAC | IEEE 802.11ax (160MHz, MCS4, 99pc dc) | WLAN | 8.58 | ± 9.6 % |
| 10760 | AAC | IEEE 802.11ax (160MHz, MCS5, 99pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10761 | AAC | IEEE 802.11ax (160MHz, MCS6, 99pc dc) | WLAN | 8.58 | ± 9.6 % |
| 10762 | AAC | IEEE 802.11ax (160MHz, MCS7, 99pc dc) | WLAN | 8.49 | ±9.6% |
| 10763 | AAC | IEEE 802.11ax (160MHz, MCS8, 99pc dc) | WLAN | 8.53 | ±9.6 % |
| 10764 | AAC | IEEE 802.11ax (160MHz, MCS9, 99pc dc) | WLAN | 8.54 | ± 9.6 % |
| 10765 | AAC | IEEE 802.11ax (160MHz, MCS10, 99pc dc) | WLAN | 8.54 | ± 9.6 % |
| 10766 | AAC | IEEE 802.11ax (160MHz, MCS11, 99pc dc) | WLAN | 8.51 | ± 9.6 % |
| 10767 | AAC | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 7.99 | ± 9.6 % |
| 10768 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10769 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10770 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | 19.6 % |
| 10771 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10772 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.23 | ± 9.6 % |
| 10773 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.03 | ±9.6 % |
| 10774 | AAC. | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ±9.6 % |
| 10775 | AAC | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.31 | ± 9.6 % |
| 10776 | AAC | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10777 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10778 | AAC | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10779 | AAC | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.42 | ± 9.6 % |
| 10780 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | ± 9.6 9 |
| 10781 | AAC | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | ±9.6 % |
| 10782 | AAC | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.43 | ± 9.6 % |
| 10783 | AAC | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.31 | ± 9.6 9 |

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| 10784 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.29 | ± 9.6 % |
|-------|-----|---|---------------|------|---------|
| 10785 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.40 | 19.6 9 |
| 10786 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10787 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.44 | ± 9.6 % |
| 10788 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ±9.6 % |
| 10789 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8,37 | ± 9.6 % |
| 10790 | AAG | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10791 | AAC | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.83 | ±9.6 % |
| 10792 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.92 | ± 9.6 % |
| 10793 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.95 | ±9.6 % |
| 10794 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.82 | ± 9.6 % |
| 10795 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.84 | ±9.6 % |
| 10796 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.82 | ± 9.6 9 |
| 10797 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | B.01 | ± 9.6 % |
| 10798 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
| 10799 | AAC | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.93 | ± 9.6 % |
| 10801 | AAC | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
| 10802 | AAC | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.87 | ± 9.6 % |
| 10803 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.93 | ± 9.6 9 |
| 10805 | AAD | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 9 |
| 10806 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10809 | AAD | 5G.NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 ° |
| 10810 | AAD | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 4 |
| 10812 | AAD | 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.35 | ±9.6 5 |
| 10817 | AAD | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.35 | ± 9.6 ° |
| 10818 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 9 |
| 10819 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.33 | ± 9.6 4 |
| 10820 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | B.30 | ± 9.6 |
| 10821 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | ± 9,6 ° |
| 10822 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 1 |
| 10823 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.36 | ± 9.6 |
| 10824 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.39 | ± 9.6 |
| 10825 | AAD | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 |
| 10827 | AAD | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.42 | ± 9.6 |
| 10828 | AAE | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.43 | ± 9.6 |
| 10829 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.40 | ± 9.6 |
| 10830 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.63 | ± 9.6 |
| 10831 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7:73 | ± 9.6 |
| 10832 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.74 | ± 9.6 |
| 10833 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ± 9.6 |
| 10834 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7,75 | ±9.6 |
| 10835 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, OPSK, 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 | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.68 | ± 9.6 |
| 10839 | AAD | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ± 9.6 |
| 10840 | AAD | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.67 | ± 9.6 |
| 10841 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.71 | ± 9.6 |
| 10843 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.49 | ± 9.6 |
| 10844 | AAD | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 |
| 10846 | AAD | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 |
| 10854 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 |
| 10855 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | ± 9.6 |
| 10856 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.37 | ±9.6 |
| 10857 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8,35 | ±9.6 |
| 10858 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | ± 9.6 |
| 10859 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |

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| 10860 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
|-------|-----|--|---------------|------|---------|
| 10861 | AAD | 5G NR (CP-OFDM, 100% RB, 60 MHz; QPSK, 60 kHz) | 5G NR FR1 TDD | 8.40 | ±9.6% |
| 10863 | AAD | 5G NR (CP-OFDM, 100% RB, 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 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10866 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 9 |
| 10868 | AAD | 5G NR (DFTOFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.89 | ± 9.6 9 |
| 10869 | AAD | 5G NR (DFT->OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10870 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.86 | ± 9.6 % |
| 10871 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 5.75 | ±9.6 9 |
| 10872 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.52 | ± 9.6 9 |
| 10873 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | ± 9.6 % |
| 10874 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ±9.6 % |
| 10875 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10876 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8.39 | ± 9.6 % |
| 10877 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 7.95 | ± 9.6 9 |
| 10878 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10879 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.12 | ±9.69 |
| 10880 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.38 | ± 9.6 9 |
| 10881 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | ± 9.6 9 |
| 10882 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.96 | ± 9.6 9 |
| 10883 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TOD | 6.57 | ± 9.6 9 |
| 10884 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.53 | 29.69 |
| 10885 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | 2 9.6 9 |
| 10886 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ± 9.6 % |
| 10887 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 120 kHz) | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10888 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8.35 | ± 9.6 9 |
| 10889 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.02 | ± 9.6 9 |
| 10890 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8,40 | ± 9.6 9 |
| 10891 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.13 | ± 9.6 % |
| 10892 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10897 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.66 | ± 9.6 * |
| 10898 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | ± 9.6 |
| 10899 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, OPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | ± 9.6 |
| 10900 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, OPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 ° |
| 10901 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 |
| 10902 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 ° |
| 10903 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, OPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 ° |
| 10904 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 4 |
| 10905 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10906 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10907 | AAD | 5G NR (DFT-5-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.78 | ± 9.6 |
| 10908 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.93 | ± 9.6 |
| 10909 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.96 | ± 9.6 ° |
| 10910 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | ± 9.6 |
| 10911 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.93 | ± 9.6 |
| 10912 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 |
| 10913 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 |
| 10914 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.85 | ± 9.6 |
| 10915 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TOD | 5.83 | ± 9.6 |
| 10916 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TOD | 5.87 | ± 9.6 |
| 10917 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | ± 9.6 |
| 10918 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ± 9.6 |
| 10919 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ± 9.6 |
| 10920 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | ± 9.6 |
| 10921 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | 1 9.6 |

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| 10922 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.82 | ± 9.6 % |
|-------|-----|---|---------------|-------|---------|
| 10923 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10924 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10925 | AAD | 5G NR (DFT-s-QFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.95 | ± 9.6 % |
| 10926 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10927 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10928 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ±9.6 % |
| 10929 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10930 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10931 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10932 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10933 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ±9.6 % |
| 10934 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10935 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10936 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10937 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.77 | ± 9.6 % |
| 10938 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10939 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.82 | ± 9.6 % |
| 10940 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.89 | ±9.6 % |
| 10941 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ±9.69 |
| 10942 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ±9.6 % |
| 10943 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.95 | ± 9.6 9 |
| 10944 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5,81 | ±9.6 % |
| 10945 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10946 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10947 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10948 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10949 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10950 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ±9.6 % |
| 10951 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.92 | ± 9.6 9 |
| 10952 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8,25 | ±9.6 9 |
| 10953 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.15 | ± 9.6 9 |
| 10954 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.23 | ± 9.6 9 |
| 10955 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.42 | ± 9.6 9 |
| 10956 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.14 | ± 9.6 9 |
| 10957 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.31 | ± 9.6 ° |
| 10958 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.61 | ± 9.6 |
| 10959 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.33 | ± 9.6 ° |
| 10960 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9,32 | ± 9.6 ° |
| 10961 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9,36 | ± 9.6 ° |
| 10962 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.40 | ± 9.6 |
| 10963 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.55 | ± 9.6 |
| 10964 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9,29 | ± 9.6 |
| 10965 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.37 | ± 9.6 |
| 10966 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.55 | ± 9.6 |
| 10967 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.42 | ± 9.6 |
| 10968 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.49 | ± 9.6 |
| 10972 | AAB | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 11.59 | ± 9.6 |
| 10973 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 9.06 | ± 9.6 |
| 10974 | AAB | 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) | 5G NR FR1 TDD | 10.28 | ± 9.6 |

⁶ Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the Tie

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- End of report -

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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