

APPENDIX H: CALIBRATION CERTIFICATES

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





S Schweizerischer Kalibrierdienst
Service suisse d'étalonnage
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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signature.

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

Client

Element

Certificate No: D5GHzV2-1057 Jan22

CALIBRATION CERTIFICATE

Object

D5GHzV2 - SN:1057

Calibration procedure(s)

QA CAL-22.v6

Calibration Procedure for SAR Validation Sources between 3-10 GHz

BNV 2-10-202

Calibration date:

January 10, 2022

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| 1D # | Cal Date (Certificate No.) | Scheduled Calibration |
|--------------------|--|------------------------|
| SN: 104778 | 09-Apr-21 (No. 217-03291/03292) | Apr-22 |
| SN: 103244 | 09-Apr-21 (No. 217-03291) | Apr-22 |
| SN: 103245 | 09-Apr-21 (No. 217-03292) | Apr-22 |
| SN: BH9394 (20k) | 09-Apr-21 (No. 217-03343) | Apr-22 |
| SN: 310982 / 06327 | 09-Apr-21 (No. 217-03344) | Apr-22 |
| SN: 3503 | 31-Dec-21 (No. EX3-3503_Dec21) | Dec-22 |
| SN: 601 | 01-Nov-21 (No. DAE4-601_Nov21) | Nov-22 |
| ID# | Check Date (in house) | Scheduled Check |
| SN: GB39512475 | 30-Oct-14 (in house check Oct-20) | In house check: Oct-22 |
| SN: US37292783 | 07-Oct-15 (in house check Oct-20) | In house check: Oct-22 |
| SN: MY41093315 | 07-Oct-15 (in house check Oct-20) | In house check: Oct-22 |
| SN: 100972 | 15-Jun-15 (in house check Oct-20) | In house check: Oct-22 |
| SN: US41080477 | 31-Mar-14 (in house check Oct-20) | In house check: Oct-22 |
| Name | Function | Signature |
| Jeffrey Katzman | Laboratory Technician | 1 January |
| | | 0.00 |
| Sven Kühn | Deputy Manager | |
| | SN: 104778 SN: 103244 SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 3503 SN: 601 ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972 SN: US41080477 Name Jeffrey Katzman | SN: 104778 |

Issued: January 20, 2022

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

Calibration Laboratory of

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





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Glossary:

TSL _

tissue simulating liquid

ConvF

sensitivity in TSL / NORM x,y,z

N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Measurement Conditions

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

| DASY Version | DASY52 | V52.10.4 |
|------------------------------|--|----------------------------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom V5.0 | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, $dy = 4.0$ mm, $dz = 1.4$ mm | Graded Ratio = 1.4 (Z direction) |
| Frequency | 5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz 5800 MHz ± 1 MHz | |

Head TSL parameters at 5250 MHz The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.9 | 4.71 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 34.9 ± 6 % | 4.52 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL at 5250 MHz

| SAR averaged over 1 cm³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 8.18 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 81.2 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.34 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 23.2 W/kg ± 19.5 % (k=2) |

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.5 | 5.07 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 34.4 ± 6 % | 4.87 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL at 5600 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 8.49 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 84.2 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.41 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 23.9 W/kg ± 19.5 % (k=2) |

Head TSL parameters at 5750 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.4 | 5.22 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 34.2 ± 6 % | 5.02 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL at 5750 MHz

| SAR averaged over 1 cm³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 8.15 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 80.8 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.31 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 22.9 W/kg ± 19.5 % (k=2) |

Head TSL parameters at 5800 MHz The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.3 | 5.27 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 34.1 ± 6 % | 5.07 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL at 5800 MHz

| SAR averaged over 1 cm³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 8.28 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 82.1 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.32 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 23.0 W/kg ± 19.5 % (k=2) |

Body TSL parameters at 5250 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 48.9 | 5.36 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 48.8 ± 6 % | 5.47 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | | |

SAR result with Body TSL at 5250 MHz

| SAR averaged over 1 cm³ (1 g) of Body TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 7.42 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 74.2 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Body TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.06 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 20.6 W/kg ± 19.5 % (k=2) |

Body TSL parameters at 5600 MHz The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 48.5 | 5.77 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 48.2 ± 6 % | 5.95 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | 7727 | |

SAR result with Body TSL at 5600 MHz

| SAR averaged over 1 cm ³ (1 g) of Body TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 7.70 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 77.0 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm³ (10 g) of Body TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.12 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 21.2 W/kg ± 19.5 % (k=2) |

Body TSL parameters at 5750 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 48.3 | 5.94 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 48.0 ± 6 % | 6.16 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | | |

SAR result with Body TSL at 5750 MHz

| SAR averaged over 1 cm ³ (1 g) of Body TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 7.49 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 74.9 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Body TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.07 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 20.7 W/kg ± 19.5 % (k=2) |

Body TSL parameters at 5800 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 48.2 | 6.00 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 47.9 ± 6 % | 6.23 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | 7.77 | |

SAR result with Body TSL at 5800 MHz

| SAR averaged over 1 cm³ (1 g) of Body TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 7.48 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 74.8 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Body TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.05 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 20.5 W/kg ± 19.5 % (k=2) |

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5250 MHz

| Impedance, transformed to feed point | 49.4 Ω - 6.3 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 24.0 dB |

Antenna Parameters with Head TSL at 5600 MHz

| Impedance, transformed to feed point | 54.3 Ω - 3.4 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 25.5 dB |

Antenna Parameters with Head TSL at 5750 MHz

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

Antenna Parameters with Head TSL at 5800 MHz

| Impedance, transformed to feed point | 50.2 Ω - 3.0 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 30.5 dB |

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Antenna Parameters with Body TSL at 5250 MHz

| Impedance, transformed to feed point | 48.2 Ω - 4.2 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 26.7 dB |

Antenna Parameters with Body TSL at 5600 MHz

| Impedance, transformed to feed point | 55.1 Ω - 1.8 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 25.8 dB |

Antenna Parameters with Body TSL at 5750 MHz

| Impedance, transformed to feed point | 53.0 Ω - 0.4 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 30.5 dB |

Antenna Parameters with Body TSL at 5800 MHz

| Impedance, transformed to feed point | 51.4 Ω - 1.7 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 33.2 dB |

General Antenna Parameters and Design

| Electrical Delay (one direction) | 1,201 ns |
|----------------------------------|----------|
| | |

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

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

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

Additional EUT Data

| Manufac | tured by | SPEAG |
|---------|----------|-------|
| | | |

DASY5 Validation Report for Head TSL

Date: 10.01.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1057

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750

MHz, Frequency: 5800 MHz

Medium parameters used: f = 5250 MHz; $\sigma = 4.52$ S/m; $\epsilon_r = 34.9$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5600 MHz; $\sigma = 4.87$ S/m; $\epsilon_r = 34.4$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5750 MHz; $\sigma = 5.02$ S/m; $\epsilon_r = 34.2$; $\rho = 1000$ kg/m³,

Medium parameters used: f = 5800 MHz; $\sigma = 5.07 \text{ S/m}$; $\varepsilon_r = 34.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.5, 5.5, 5.5) @ 5250 MHz, ConvF(5.1, 5.1, 5.1) @ 5600 MHz, ConvF(5.08, 5.08, 5.08) @ 5750 MHz, ConvF(5.01, 5.01, 5.01) @ 5800 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 01.11.2021
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 76.74 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 27.8 W/kg

SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.34 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 70.5%

Maximum value of SAR (measured) = 18.3 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 76.79 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 31.0 W/kg

SAR(1 g) = 8.49 W/kg; SAR(10 g) = 2.41 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 67.9%

Maximum value of SAR (measured) = 19.7 W/kg

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

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 74.27 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 31.3 W/kg

SAR(1 g) = 8.15 W/kg; SAR(10 g) = 2.31 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 66.3%

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

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 74.73 V/m; Power Drift = 0.05 dB

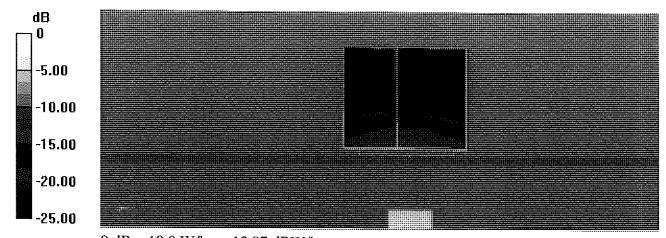
Peak SAR (extrapolated) = 32.1 W/kg

SAR(1 g) = 8.28 W/kg; SAR(10 g) = 2.32 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

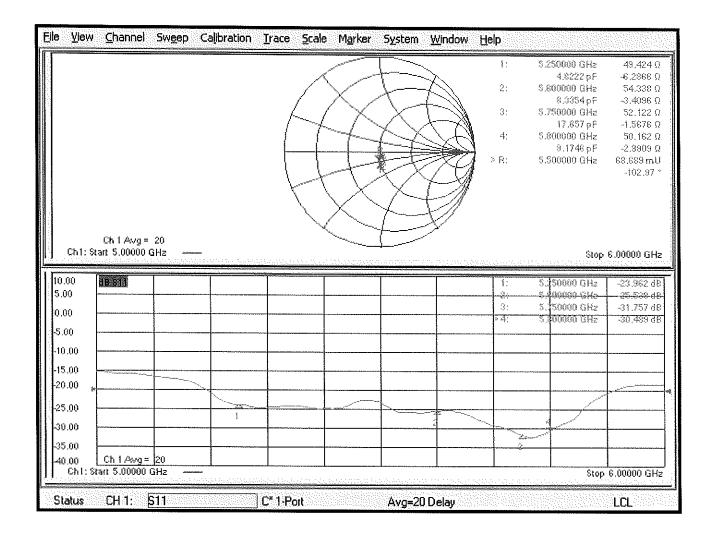
Ratio of SAR at M2 to SAR at M1 = 66.1%

Maximum value of SAR (measured) = 19.8 W/kg



0 dB = 19.8 W/kg = 12.97 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 10.01.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1057

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750

MHz, Frequency: 5800 MHz

Medium parameters used: f = 5250 MHz; $\sigma = 5.47$ S/m; $\epsilon_r = 48.8$; $\rho = 1000$ kg/m³,

Medium parameters used: f = 5600 MHz; $\sigma = 5.95$ S/m; $\varepsilon_r = 48.2$; $\rho = 1000$ kg/m³

Medium parameters used: f = 5750 MHz; $\sigma = 6.16$ S/m; $\epsilon_r = 48.0$; $\rho = 1000$ kg/m³

Medium parameters used: f = 5800 MHz; $\sigma = 6.23 \text{ S/m}$; $\varepsilon_r = 47.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.26, 5.26, 5.26) @ 5250 MHz, ConvF(4.79, 4.79, 4.79) @ 5600 MHz, ConvF(4.66, 4.66, 4.66) @ 5750 MHz, ConvF(4.62, 4.62, 4.62) @ 5800 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 01.11.2021
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.90 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 27.4 W/kg

SAR(1 g) = 7.42 W/kg; SAR(10 g) = 2.06 W/kg

Smallest distance from peaks to all points 3 dB below = 6.9 mm

Ratio of SAR at M2 to SAR at M1 = 67.9%

Maximum value of SAR (measured) = 17.6 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.38 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 31.7 W/kg

SAR(1 g) = 7.70 W/kg; SAR(10 g) = 2.12 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 64.4%

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

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

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 63.08 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 32.3 W/kg

SAR(1 g) = 7.49 W/kg; SAR(10 g) = 2.07 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 62.8%

Maximum value of SAR (measured) = 19.1 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Crbs 0.14

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 63.44 V/m; Power Drift = -0.05 dB

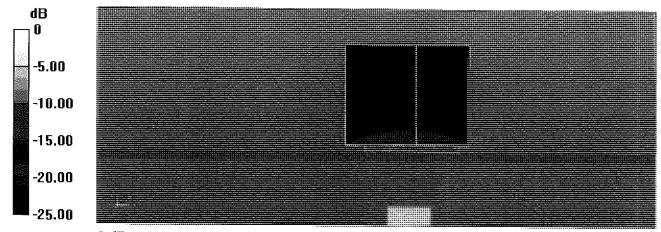
Peak SAR (extrapolated) = 31.4 W/kg

SAR(1 g) = 7.48 W/kg; SAR(10 g) = 2.05 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

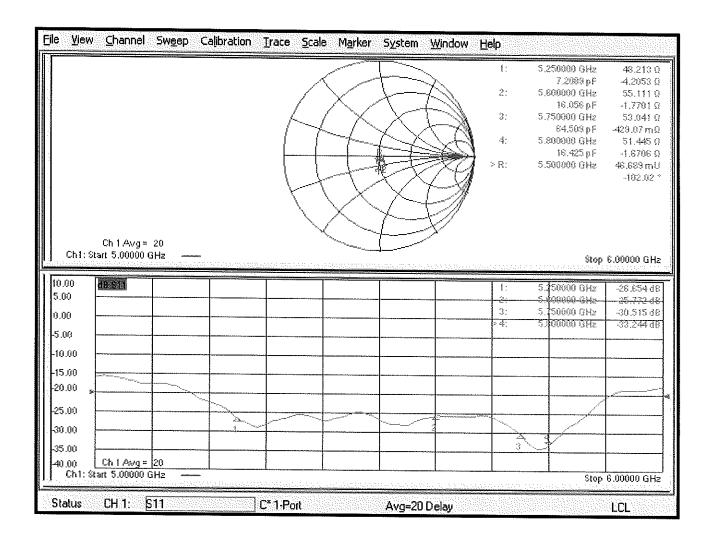
Ratio of SAR at M2 to SAR at M1 = 63.9%

Maximum value of SAR (measured) = 18.9 W/kg



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

Impedance Measurement Plot for Body TSL



Appendix: Transfer Calibration at Four Validation Locations on SAM Head¹

Evaluation Condition (f=5250 MHz)

| Phantom | SAM Head Phantom | For usage with cSAR3D V2 -R/L |
|---------|------------------|--------------------------------------|
| | A | |

SAR result with SAM Head (Top \cong C0)

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|------------------|-------------------------|
| SAR for nominal Head TSL parameters | normalized to 1W | 86.9 W/kg ± 20.3% (k=2) |
| SAR averaged over 10 cm³ (10 g) of Head TSL | | |
| SAN averaged over 10 cm ⁻ (10 g) of nead 15L | condition | |
| | | |

SAR result with SAM Head (Mouth ≅ F90)

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|------------------|-------------------------|
| SAR for nominal Head TSL parameters | normalized to 1W | 86.1 W/kg ± 20.3% (k=2) |
| | | |
| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |

SAR result with SAM Head (Neck \cong H0)

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|------------------|-------------------------|
| SAR for nominal Head TSL parameters | normalized to 1W | 84.2 W/kg ± 20.3% (k=2) |
| | | |
| SAR averaged over 10 cm ³ (10 c) of Head TCI | | |
| SAR averaged over 10 cm³ (10 g) of Head TSL | condition | |

SAR result with SAM Head (Ear ≅ D90)

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|------------------|-------------------------|
| SAR for nominal Head TSL parameters | normalized to 1W | 54.5 W/kg ± 20.3% (k=2) |
| | | |
| SAR averaged over 10 cm³ (10 g) of Head TSL | condition | |

Certificate No: D5GHzV2-1057_Jan22

Additional assessments outside the current scope of SCS 0108

Appendix: Transfer Calibration at Four Validation Locations on SAM Head²

Evaluation Condition (f=5800 MHz)

| ١ | BI - | | |
|---|---------|------------------|--------------------------------------|
| | Phantom | SAM Head Phantom | For usage with cSAR3D V2 -R/L |
| | | | |

SAR result with SAM Head (Top \cong C0)

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|------------------|--------------------------|
| SAR for nominal Head TSL parameters | normalized to 1W | 85.3 W/kg ± 20.3 % (k=2) |
| | | |
| SAR averaged over 10 cm³ (10 g) of Head TSL | condition | |

SAR result with SAM Head (Mouth \cong F90)

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|------------------|-------------------------|
| SAR for nominal Head TSL parameters | normalized to 1W | 92.2 W/kg ± 20.3% (k=2) |
| | | |
| SAR averaged over 10 cm³ (10 g) of Head TSL | condition | |

SAR result with SAM Head (Neck ≅ H0)

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|------------------|-------------------------|
| SAR for nominal Head TSL parameters | normalized to 1W | 82.3 W/kg ± 20.3% (k=2) |
| | | **** |
| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |

SAR result with SAM Head (Ear \cong D90)

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|------------------|-------------------------|
| SAR for nominal Head TSL parameters | normalized to 1W | 58.6 W/kg ± 20.3% (k=2) |
| | | |
| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |

Certificate No: D5GHzV2-1057_Jan22

 $^{^{\}rm 2}$ Additional assessments outside the current scope of SCS 0108

Calibration Laboratory of

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





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

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Client

Element

Accreditation No.: SCS 0108

Certificate No: EX3-7659_Apr22

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7659

Calibration procedure(s)

QA CAL-01.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7

Calibration procedure for dosimetric E-field probes

Calibration date:

April 20, 2022

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%,

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP | SN: 104778 | 04-Apr-22 (No. 217-03525/03524) | Apr-23 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-22 (No. 217-03524) | Apr-23 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-22 (No. 217-03525) | Apr-23 |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 04-Apr-22 (No. 217-03527) | Apr-23 |
| DAE4 | SN: 660 | 13-Oct-21 (No. DAE4-660_Oct21) | Oct-22 |
| Reference Probe ES3DV2 | SN: 3013 | 27-Dec-21 (No. ES3-3013_Dec21) | Dec-22 |
| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
| Power meter E4419B | SN: GB41293874 | 06-Apr-16 (in house check Jun-20) | In house check; Jun-22 |
| Power sensor E4412A | SN: MY41498087 | 06-Apr-16 (in house check Jun-20) | In house check: Jun-22 |
| Power sensor E4412A | SN: 000110210 | 06-Apr-16 (in house check Jun-20) | In house check: Jun-22 |
| RF generator HP 8648C | SN: US3642U01700 | 04-Aug-99 (in house check Jun-20) | In house check: Jun-22 |
| Network Analyzer E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-20) | In house check: Oct-22 |

Name **Function** Calibrated by: Leif Klysner Laboratory Technician Approved by: Sven Kühn Deputy Manager

Issued: April 21, 2022

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

Calibration Laboratory of

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





S

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Accreditation No.: SCS 0108

Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

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

Glossary:

TSL tissue simulating liquid
NORMx,y,z sensitivity in free space
ConvF sensitivity in TSL / NORMx,y,z

DCP diode compression point

CF crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters

Polarization φ rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 0 is normal to probe axis

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 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).

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7659

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|--|----------|----------|----------|-----------|
| Norm (μV/(V/m) ²) ^A | 0.72 | 0.60 | 0.60 | ± 10.1 % |
| DCP (mV)B | 102.9 | 101.1 | 100.8 | |

Calibration Posults for Modulation Response

| UID | ion Results for Modulation 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 | 146.8 | ± 2.2 % | ± 4.7 % |
| | | Y | 0.00 | 0.00 | 1.00 | | 160.7 | | |
| | | Z | 0.00 | 0.00 | 1.00 | | 156.5 | | |
| 10352- | Pulse Waveform (200Hz, 10%) | X | 1.54 | 60.64 | 6.32 | 10.00 | 60.0 | ± 3.4 % | ± 9.6 % |
| AAA | | Y | 1.54 | 60.81 | 6.57 | | 60.0 | | |
| | | Z | 1.44 | 60.19 | 5.84 | | 60.0 | | , |
| 10353- | Pulse Waveform (200Hz, 20%) | X | 0.77 | 60.00 | 4.74 | 6.99 | 80.0 | ± 2.2 % | ± 9.6 % |
| AAA | i i | Y | 0.76 | 60.00 | 4.95 | | 80.0 | | |
| | | Z | 0.81 | 60.00 | 4.37 | | 80.0 | | |
| 10354- | Pulse Waveform (200Hz, 40%) | X | 0.01 | 126.93 | 0.57 | 3.98 | 95.0 | ± 2.2 % | ± 9.6 % |
| AAA | | Y | 0.14 | 137.33 | 0.64 | | 95.0 | | |
| | | Z | 4.69 | 110.83 | 0.31 | | 95.0 | | |
| 10355- | Pulse Waveform (200Hz, 60%) | X | 16.96 | 150.34 | 11.03 | 2.22 | 120.0 | ± 1.5 % | ±9.6% |
| AAA | | Y | 8.22 | 159.51 | 25.32 | | 120.0 | | |
| | | Z | 1.01 | 159.98 | 1.58 | | 120.0 | | |
| 10387- | QPSK Waveform, 1 MHz | X | 0.78 | 64.52 | 12.33 | 1.00 | 150.0 | ± 4.2 % | ± 9.6 % |
| AAA | | Y | 0.81 | 65.44 | 13.19 | | 150.0 | | |
| | | Z | 0.78 | 66.50 | 13.27 | | 150.0 | | |
| 10388- | QPSK Waveform, 10 MHz | X | 1.47 | 65.21 | 13.80 | 0.00 | 150.0 | ± 1.3 % | ± 9.6 % |
| AAA | | Υ | 1.53 | 65.88 | 14.31 | | 150.0 |] | |
| | | Z | 1.51 | 66.59 | 14.51 | | 150.0 | | |
| 10396- | 64-QAM Waveform, 100 kHz | X | 1.68 | 64.12 | 15.76 | 3.01 | 150.0 | ± 1.5 % | ± 9.6 % |
| AAA | | Y | 1.72 | 64.51 | 17.03 | | 150.0 | _ | |
| | | Z | 1.67 | 64.80 | 16.47 | | 150.0 | | |
| 10399- | 64-QAM Waveform, 40 MHz | X | 2.95 | 65.93 | 14.93 | 0.00 | 150.0 | ± 2.1 % | ± 9.6 % |
| AAA | | Y | 2.98 | 66.12 | 15.14 | | 150.0 | | |
| | | Z | 2.97 | 66.50 | 15.31 | | 150.0 | | |
| 10414- | WLAN CCDF, 64-QAM, 40MHz | X | 4.05 | 65.54 | 15.18 | 0.00 | 150.0 | ± 4.0 % | ± 9.6 % |
| AAA | | Υ | 4.06 | 65.68 | 15.33 | | 150.0 |] | |
| | | Z | 4.04 | 65.99 | 15.47 | ļ | 150.0 | | |

Note: For details on UID parameters see Appendix

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

A The uncertainties of Norm X,Y,Z do not affect the E2-field uncertainty inside TSL (see Pages 5 and 6).

B Numerical linearization parameter: uncertainty not required.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7659

Sensor Model Parameters

| | 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 | 13.9 | 102.74 | 34.55 | 0.92 | 0.00 | 4.90 | 0.38 | 0.00 | 1.00 |
| Υ | 13.4 | 99.16 | 34.95 | 0.92 | 0.00 | 4.90 | 0.00 | 0.00 | 1.01 |
| Z | 12.6 | 93.77 | 35.22 | 1.52 | 0.00 | 4.90 | 0.28 | 0.00 | 1.01 |

Other Probe Parameters

| Sensor Arrangement | Triangular |
|---|------------|
| Connector Angle (°) | 168.9 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 9 mm |
| Tip Diameter | 2.5 mm |
| Probe Tip to Sensor X Calibration Point | 1 mm |
| Probe Tip to Sensor Y Calibration Point | 1 mm |
| Probe Tip to Sensor Z Calibration Point | 1 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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7659

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 | 10.93 | 10.93 | 10.93 | 0.53 | 0.80 | ± 12.0 % |
| 835 | 41.5 | 0.90 | 10.65 | 10.65 | 10.65 | 0.54 | 0.80 | ± 12.0 % |
| 1750 | 40.1 | 1.37 | 9,43 | 9.43 | 9.43 | 0.26 | 0.86 | ± 12.0 % |
| 1900 | 40.0 | 1.40 | 9.18 | 9.18 | 9.18 | 0.29 | 0.86 | ± 12.0 % |
| 2300 | 39.5 | 1.67 | 8.81 | 8.81 | 8.81 | 0.31 | 0.90 | ± 12.0 % |
| 2450 | 39.2 | 1.80 | 8.74 | 8.74 | 8.74 | 0.32 | 0.90 | ± 12.0 % |
| 2600 | 39.0 | 1.96 | 8.41 | 8.41 | 8.41 | 0.35 | 0.90 | ± 12.0 % |
| 5250 | 35.9 | 4.71 | 5.84 | 5.84 | 5.84 | 0.40 | 1.80 | ± 14.0 % |
| 5600 | 35.5 | 5.07 | 5.26 | 5.26 | 5.26 | 0.40 | 1.80 | ± 14.0 % |
| 5750 | 35.4 | 5.22 | 5.36 | 5.36 | 5.36 | 0.40 | 1.80 | ± 14.0 % |
| 5850 | 35.2 | 5.32 | 5.15 | 5.15 | 5.15 | 0.40 | 1.80 | ± 14.0 % |

[°] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

F At frequencies up to 6 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to

measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

Galpha/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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7659

Calibration Parameter Determined in Body Tissue Simulating Media

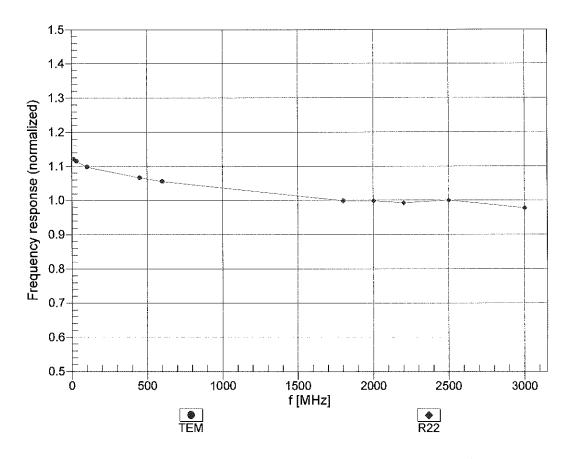
| f (MHz) ^C | Relative Permittivity ^F | Conductivity (S/m) F | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc (k=2) |
|----------------------|---------------------------------------|----------------------|---------|---------|---------|--------------------|----------------------------|--------------|
| 750 | 55.5 | 0.96 | 10.86 | 10.86 | 10.86 | 0.49 | 0.80 | ± 12.0 % |
| 835 | 55.2 | 0.97 | 10.62 | 10.62 | 10.62 | 0.40 | 0.80 | ± 12.0 % |
| 1750 | 53.4 | 1.49 | 9.55 | 9.55 | 9.55 | 0.36 | 0.86 | ± 12.0 % |
| 1900 | 53.3 | 1.52 | 9.14 | 9.14 | 9.14 | 0.32 | 0.86 | ± 12.0 % |
| 2300 | 52.9 | 1.81 | 8.91 | 8.91 | 8.91 | 0.45 | 0.90 | ± 12.0 % |
| 2450 | 52.7 | 1.95 | 8.81 | 8.81 | 8.81 | 0.36 | 0.90 | ± 12.0 % |
| 2600 | 52.5 | 2.16 | 8.42 | 8.42 | 8.42 | 0.35 | 0.90 | ± 12.0 % |
| 5250 | 48.9 | 5.36 | 5.21 | 5.21 | 5.21 | 0.50 | 1.90 | ± 14.0 % |
| 5600 | 48.5 | 5.77 | 4.60 | 4.60 | 4.60 | 0.50 | 1.90 | ± 14.0 % |
| 5750 | 48.3 | 5.94 | 4.67 | 4.67 | 4.67 | 0.50 | 1.90 | ± 14.0 % |
| 5850 | 48.1 | 6.06 | 4.49 | 4.49 | 4.49 | 0.50 | 1.90 | ± 14.0 % |

^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

F At frequencies up to 6 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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

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

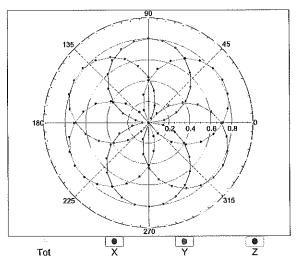


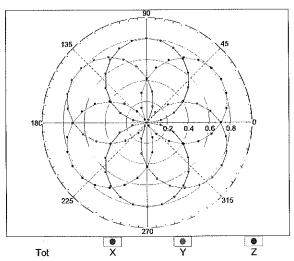
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

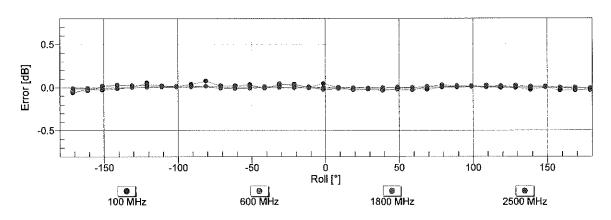
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

f=600 MHz,TEM

f=1800 MHz,R22



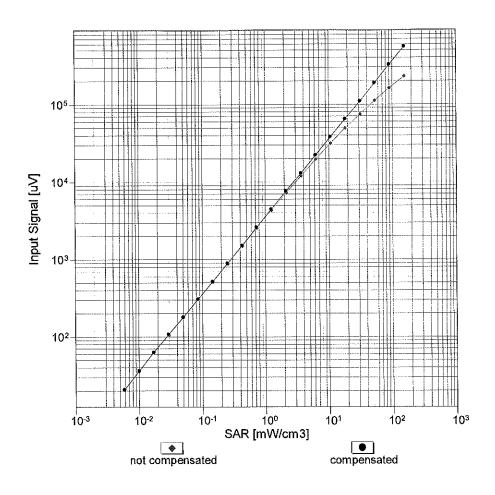


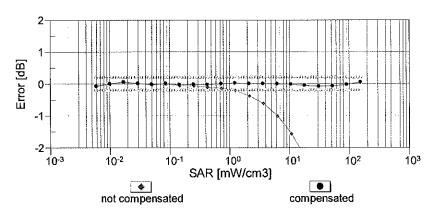


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR_{head})

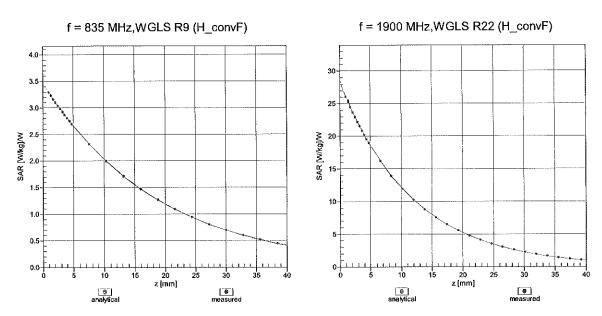
(TEM cell , feval= 1900 MHz)



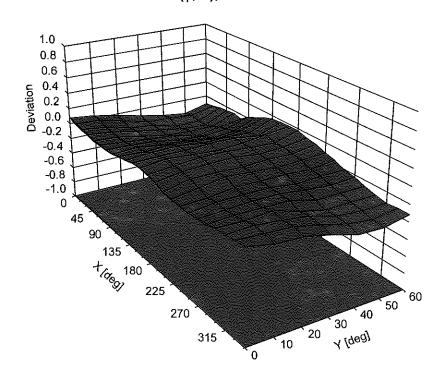


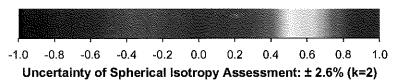
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (φ, θ), f = 900 MHz





Appendix: Modulation Calibration Parameters

| ÚID | Rev | odulation Calibration Parameters Communication System Name | Group | PAR (dB) | Unc ^E (k=2) |
|----------------|------------|---|------------|-------------|---------------------------|
| 0 | | CW | cw | 0.00 | ± 4.7 % |
| 10010 | CAA | SAR Validation (Square, 100ms, 10ms) | Test | 10.00 | ± 9.6 % |
| 10010 | CAB | UMTS-FDD (WCDMA) | WCDMA | 2.91 | ± 9.6 % |
| 10017 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) | WLAN | 1.87 | ± 9.6 % |
| 10012 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | WLAN | 9.46 | ± 9.6 % |
| 10013 | DAC | GSM-FDD (TDMA, GMSK) | GSM | 9.39 | ± 9.6 % |
| 10021 | DAC | GPRS-FDD (TDMA, GMSK, TN 0) | GSM | 9.57 | ± 9.6 % |
| 10023 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1) | GSM | 6.56 | ± 9.6 % |
| 10024 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0) | GSM | 12.62 | ± 9.6 % |
| 10026 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1) | GSM | 9.55 | ± 9.6 % |
| 10027 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2) | GSM | 4.80 | ± 9.6 % |
| 10027 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) | GSM | 3.55 | ± 9.6 % |
| 10020 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2) | GSM | 7.78 | ± 9.6 % |
| 10029 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1) | Bluetooth | 5.30 | ± 9.6 % |
| 10030 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3) | Bluetooth | 1.87 | ± 9.6 % |
| 10031 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5) | Bluetooth | 1.16 | ± 9.6 % |
| 10032 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1) | Bluetooth | 7.74 | ± 9.6 % |
| 10033 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3) | Bluetooth | 4.53 | ± 9.6 % |
| 10034 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5) | Bluetooth | 3.83 | ± 9.6 % |
| 10036 | CAA | IEEE 802,15.1 Bluetooth (8-DPSK, DH1) | Bluetooth | 8.01 | ± 9.6 % |
| 10030 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3) | Bluetooth | 4.77 | ± 9.6 % |
| 10037 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5) | Bluetooth | 4.10 | ± 9.6 % |
| 10038 | CAB | CDMA2000 (1xRTT, RC1) | CDMA2000 | 4.57 | ± 9.6 % |
| 10039 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | AMPS | 7.78 | ± 9.6 % |
| 10042 | CAB | IS-91/EIA/TIA-553 FDD (FDMA, FM) | AMPS | 0.00 | ± 9.6 % |
| 10044 | CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24) | DECT | 13.80 | ±9.6% |
| 10048 | CAA | DECT (TDD, TDMA/FDM, GFSK, Double Stot, 12) | DECT | 10.79 | ± 9.6 % |
| 10049 | CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps) | TD-SCDMA | 11.01 | ± 9.6 % |
| 10058 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) | GSM | 6.52 | ± 9.6 % |
| 10058 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) | WLAN | 2.12 | ± 9.6 % |
| 10060 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps) | WLAN | 2.83 | ± 9.6 % |
| 10061 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps) | WLAN | 3.60 | ± 9.6 % |
| 10062 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps) | WLAN | 8.68 | ± 9.6 % |
| 10062 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps) | WLAN | 8.63 | ± 9.6 % |
| 10064 | CAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps) | WLAN | 9.09 | ± 9.6 % |
| | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps) | WLAN | 9.00 | ± 9.6 % |
| 10065 10066 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) | WLAN | 9.38 | ± 9.6 % |
| 10067 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps) | WLAN | 10.12 | ± 9.6 % |
| | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps) | WLAN | 10.12 | ± 9.6 % |
| 10068 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 40 Mbps) | WLAN | 10.56 | ± 9.6 % |
| 10069 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps) | WLAN | 9.83 | ± 9.6 % |
| 10071 | | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps) | WLAN | 9.62 | ± 9.6 % |
| 10072 | CAB CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | WLAN | 9.94 | ± 9.6 % |
| 10073 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 16 Mbps) | WLAN | 10.30 | ± 9.6 % |
| 10074 | | | WLAN | 10.77 | ± 9.6 % |
| 10075 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | WLAN | 10.77 | ± 9.6 % |
| 10076 | CAB | | WLAN | 11.00 | ± 9.6 % |
| 10077 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | CDMA2000 | 3.97 | ± 9.6 % |
| 10081 | CAB | CDMA2000 (1xRTT, RC3) | AMPS | 4.77 | ± 9.6 % |
| 10082 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fulirate) | GSM - | 6.56 | ± 9.6 % |
| 10090 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-4) | WCDMA | 3.98 | ± 9.6 % |
| 10097 10098 | CAB CAB | UMTS-FDD (HSDPA) UMTS-FDD (HSUPA, Subtest 2) | WCDMA | 3.98 | ± 9.6 % |
| | | LIUMI A-FULLIDAUEA SIMIESI ZI | i vvGDIVIA | 1 0.30 | J J J 70 |

| | | | 1 | 1 | |
|-------|-----|--|---------|--------|---------|
| 10100 | CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-FDD | 5.67 | ±9.6% |
| 10101 | CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-FDD | 6.42 | ± 9.6 % |
| 10102 | CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | ± 9.6 % |
| 10103 | CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-TDD | 9.29 | ± 9.6 % |
| 10104 | CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.97 | ± 9.6 % |
| 10105 | CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-TDD | 10.01 | ± 9.6 % |
| 10108 | CAG | 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 | CAD | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) | WLAN | 8.10 | ± 9.6 % |
| 10115 | CAD | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) | WLAN | 8.46 | ± 9.6 % |
| 10116 | CAD | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | WLAN | 8.15 | ± 9.6 % |
| 10117 | CAD | 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 | CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-FDD | 6.49 | ± 9.6 % |
| 10141 | CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.53 | ±9.6% |
| 10142 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10143 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-FDD | 6.35 | ± 9.6 % |
| 10144 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.65 | ± 9.6 % |
| 10145 | CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.76 | ± 9.6 % |
| 10146 | CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.41 | ± 9.6 % |
| 10147 | CAF | 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 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-TDD | 9.28 | ± 9.6 % |
| 10152 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.92 | ±9.6% |
| 10153 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-TDD | 10,05 | ± 9.6 % |
| 10154 | CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-FDD | 5.75 | ± 9.6 % |
| 10155 | CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | ± 9.6 % |
| 10156 | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-FDD | 5.79 | ± 9.6 % |
| 10157 | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-FDD | 6.49 | ± 9.6 % |
| 10158 | CAG | 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-FDD | 6.56 | ± 9.6 % |
| 10160 | | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-FDD | 5.82 | ± 9.6 % |
| 10161 | CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | LTE-FDD | 6.43 | ± 9.6 % |
| 10162 | CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.58 | ± 9.6 % |
| 10166 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.46 | ± 9.6 % |
| 10167 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.21 | ± 9.6 % |
| 10168 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.79 | ± 9.6 % |
| 10169 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10170 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10171 | AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-FDD | 6.49 | ± 9.6 % |
| 10172 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10173 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10174 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10175 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-FDD | 5.72 | ± 9.6 % |
| 10176 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10177 | CAI | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10178 | CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10179 | CAG | 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 % |
| 10181 | CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10101 | | | 1 , 00 | 1 5.75 | |

| | | | | 10.50 | 1.000 |
|-------|--------------|--|---------|-------|----------|
| 10182 | CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10183 | AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10184 | CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10185 | CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-FDD | 6.51 | ± 9.6 % |
| 10186 | AAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10187 | CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10188 | CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10189 | AAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10193 | CAD | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) | WLAN | 8.09 | ± 9.6 % |
| 10194 | CAD | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | WLAN | 8.12 | ± 9.6 % |
| 10195 | CAD | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | WLAN | 8.21 | ± 9.6 % |
| 10196 | CAD | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) | WLAN | 8.10 | ± 9.6 % |
| 10197 | CAD | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) | WLAN | 8.13 | ± 9.6 % |
| 10198 | CAD | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) | WLAN | 8.27 | ± 9.6 % |
| 10219 | CAD | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) | WLAN | 8.03 | ± 9.6 % |
| 10220 | CAD | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) | WLAN | 8.13 | ± 9.6 % |
| 10221 | CAD | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) | WLAN | 8.27 | ± 9.6 % |
| 10222 | CAD | 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 | CAB | UMTS-FDD (HSPA+) | WCDMA | 5.97 | ± 9.6 % |
| 10226 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.49 | ± 9.6 % |
| 10227 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.26 | ± 9.6 % |
| 10228 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-TDD | 9.22 | ± 9.6 % |
| 10229 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10230 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10231 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-TDD | 9.19 | ± 9.6 % |
| 10232 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10233 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10234 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10235 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10236 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10237 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10238 | CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10239 | CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10240 | CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10241 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.82 | ± 9.6 % |
| 10242 | | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 9.86 | ± 9.6 % |
| 10243 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-TDD | 9.46 | ± 9.6 % |
| 10244 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| 10245 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| 10246 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-TDD | 9.30 | ± 9.6 % |
| 10247 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-TDD | 9.91 | ± 9.6 % |
| 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 % |
| 10249 | CAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.81 | ± 9.6 % |
| 10251 | CAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-TDD | 10.17 | ± 9.6 % |
| 10252 | CAG | 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 % |
| 10254 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | LTE-TDD | 10.14 | ± 9.6 % |
| 10255 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-TDD | 9,20 | ± 9.6 % |
| 10256 | CAB | LTE-TDD (SC-FDMA, 30 % RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.96 | ± 9.6 % |
| 10257 | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.08 | ± 9.6 % |
| 10257 | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 04-QAM) | LTE-TDD | 9.34 | ± 9.6 % |
| 10259 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-TOD | 9.98 | ± 9.6 % |
| 10259 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-TDD | 9.97 | ± 9.6 % |
| 10200 | LOVD | LTE-TOO (OO-1 DIVIN, 100 /8 IND, 3 WITZ, 04"Q/NVI) | LIETIDD | 9.97 | 1 3.0 /0 |

| | | | (TE TDD | 0.24 | ± 9.6 % |
|-------|-------------|---|----------|-------|---------|
| 10261 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-TDD | 9.24 | |
| 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 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | LTE-TDD | 10.07 | ± 9.6 % |
| 10267 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-TDD | 9.30 | ± 9.6 % |
| 10268 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| 10269 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-TDD | 10.13 | ± 9.6 % |
| 10270 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-TDD | 9.58 | ±9.6% |
| 10274 | CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) | WCDMA | 4.87 | ±9.6% |
| 10275 | CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) | WCDMA | 3.96 | ± 9.6 % |
| 10277 | CAA | PHS (QPSK) | PHS | 11.81 | ± 9.6 % |
| 10278 | CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5) | PHS | 11.81 | ± 9.6 % |
| 10279 | CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38) | PHS | 12.18 | ± 9.6 % |
| 10290 | AAB | CDMA2000, RC1, SO55, Full Rate | CDMA2000 | 3.91 | ± 9.6 % |
| 10291 | AAB | CDMA2000, RC3, SO55, Full Rate | CDMA2000 | 3.46 | ± 9.6 % |
| 10297 | AAB | CDMA2000, RC3, SO32, Full Rate | CDMA2000 | 3.39 | ± 9.6 % |
| 10292 | AAB | CDMA2000, RC3, SO3, Full Rate | CDMA2000 | 3.50 | ± 9.6 % |
| | | CDMA2000, RC1, SO3, 1/8th Rate 25 fr. | CDMA2000 | 12.49 | ± 9.6 % |
| 10295 | AAB | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-FDD | 5.81 | ± 9.6 % |
| 10297 | AAD | | LTE-FDD | 5.72 | ± 9.6 % |
| 10298 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | | 6.39 | ± 9.6 % |
| 10299 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-FDD | | ± 9.6 % |
| 10300 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.60 | |
| 10301 | AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC) | WiMAX | 12.03 | ±9.6% |
| 10302 | AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL) | WiMAX | 12.57 | ± 9.6 % |
| 10303 | AAA | IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC) | WiMAX | 12.52 | ± 9.6 % |
| 10304 | AAA | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) | WiMAX | 11.86 | ± 9.6 % |
| 10305 | AAA | IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC) | WiMAX | 15.24 | ± 9.6 % |
| 10306 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) | WiMAX | 14.67 | ± 9.6 % |
| 10307 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC) | WiMAX | 14.49 | ± 9.6 % |
| 10308 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) | WiMAX | 14.46 | ± 9.6 % |
| 10309 | AAA | IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3) | WiMAX | 14.58 | ± 9.6 % |
| 10310 | AAA | IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3 | WiMAX | 14.57 | ± 9.6 % |
| 10311 | AAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-FDD | 6.06 | ± 9.6 % |
| 10313 | AAA | iDEN 1:3 | iDEN | 10.51 | ± 9.6 % |
| 10314 | AAA | iDEN 1:6 | iDEN | 13.48 | ± 9.6 % |
| 10315 | AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc) | WLAN | 1.71 | ± 9.6 % |
| 10316 | AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10317 | AAD | 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 | ± 9.6 % |
| 10355 | AAA | Pulse Waveform (200Hz, 60%) | Generic | 2.22 | ± 9.6 % |
| 10356 | AAA | Pulse Waveform (200Hz, 80%) | Generic | 0.97 | ± 9.6 % |
| 10330 | AAA | QPSK Waveform, 1 MHz | Generic | 5.10 | ± 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 % |
| | AAA | 64-QAM Waveform, 40 MHz | Generic | 6.27 | ± 9.6 % |
| 10399 | | <u> </u> | WLAN | 8.37 | ± 9.6 % |
| 10400 | AAE | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc) | | + | ± 9.6 % |
| 10401 | AAE | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc) | WLAN | 8.60 | |
| 10402 | AAE | 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 % |
| 10404 | AAB | CDMA2000 (1xEV-DO, Rev. A) | CDMA2000 | 3.77 | ± 9.6 % |
| 10406 | AAB | CDMA2000, RC3, SO32, SCH0, Full Rate | CDMA2000 | 5.22 | ± 9.6 % |
| 10410 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9) | LTE-TDD | 7.82 | ± 9.6 % |

| | 1 | | T 0 | 0.54 | ± 9.6 % |
|-------|-------|--|-----------|-------|------------|
| 10414 | AAA | WLAN CCDF, 64-QAM, 40MHz | Generic | 8.54 | ± 9.6 % |
| 10415 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc) | WLAN | 1.54 | |
| 10416 | AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc) | WLAN | 8.23 | ± 9.6 % |
| 10417 | AAC | IEEE 802.11a/h 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 | AAC | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) | WLAN | 8.32 | ± 9.6 % |
| 10423 | AAC | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) | WLAN | 8.47 | ± 9.6 % |
| 10424 | AAC | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) | WLAN | 8.40 | ± 9.6 % |
| 10425 | AAC | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) | WLAN | 8.41 | ± 9.6 % |
| 10426 | AAC | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) | WLAN | 8.45 | ± 9.6 % |
| 10427 | AAC | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) | WLAN | 8.41 | ± 9.6 % |
| 10430 | AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) | LTE-FDD | 8.28 | ± 9.6 % |
| 10431 | AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) | LTE-FDD | 8.38 | ± 9.6 % |
| 10432 | AAC | 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 | AAA | W-CDMA (BS Test Model 1, 64 DPCH) | WCDMA | 8.60 | ± 9.6 % |
| 10435 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10447 | AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.56 | ± 9.6 % |
| 10448 | AAD | 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 | AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.48 | ± 9.6 % |
| 10451 | AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%) | WCDMA | 7.59 | ± 9.6 % |
| 10453 | AAD | 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 % |
| 10457 | AAA | UMTS-FDD (DC-HSDPA) | WCDMA | 6.62 | ± 9.6 % |
| 10458 | AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) | CDMA2000 | 6.55 | ± 9.6 % |
| 10459 | AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers) | CDMA2000 | 8.25 | ± 9.6 % |
| 10460 | AAA | UMTS-FDD (WCDMA, AMR) | WCDMA | 2.39 | ± 9.6 % |
| 10461 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10462 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.30 | ± 9.6 % |
| 10463 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.56 | ± 9.6 % |
| 10464 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10465 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10466 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10467 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10468 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10469 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.56 | ± 9.6 % |
| 10470 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10471 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10472 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10473 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10474 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10475 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10477 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10477 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10479 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10480 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8,18 | ± 9.6 % |
| 10480 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.45 | ± 9.6 % |
| 10481 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 7.71 | ± 9.6 % |
| 10483 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub) | LTE-TDD | 8.39 | ± 9.6 % |
| 10484 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.47 | ± 9.6 % |
| 10485 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub) | LTE-TDD | 7.59 | ± 9.6 % |
| 10486 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.38 | ± 9.6 % |
| 10487 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.60 | ± 9.6 % |
| 10488 | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.70 | ± 9.6 % |
| 10400 | 1 441 | ETE TOD (00-1 DIWA, 00 // TO, 10 IVITIZ, QL OIL, OL OUD) | 1 515-100 | 1.10 | 1 4 0.0 /0 |

| 40400 | AAE 1 | LTE TDD (CO EDMA 500) DD 40 MHz 46 OAM LIL Sub) | LTE TOD | 8.31 | ± 9.6 % |
|--|-------|---|--|--|--------------------|
| | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub) | LTE-TOD | 8.54 | ± 9.6 % |
| | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub) | LTE-TDD | | ± 9.6 % |
| | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.41 | ± 9.6 % |
| | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.55 | |
| | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.37 | ± 9.6 % |
| \vdash | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.54 | ± 9.6 % |
| } <u>-</u> | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub) | LTE-TDD | 7.67 | ± 9.6 % |
| | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.40 | ± 9.6 % |
| | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.68 | ± 9.6 % |
| | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 7.67 | ± 9.6 % |
| | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.44 | ± 9.6 % |
| | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.52 | ± 9.6 % |
| | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub) | LTE-TDD | 7.72 | ± 9.6 % |
| | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.31 | ± 9.6 % |
| | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.54 | ± 9.6 % |
| | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ±9.6% |
| 10507 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.36 | ± 9.6 % |
| 10508 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub) | LTE-TDD | 8,55 | ± 9.6 % |
| 10509 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub) | LTE-TDD | 7.99 | ±9.6% |
| 10510 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.49 | ± 9.6 % |
| 10511 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.51 | ± 9.6 % |
| 10512 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10513 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.42 | ± 9.6 % |
| 10514 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.45 | ± 9.6 % |
| 10515 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc) | WLAN | 1.58 | ± 9.6 % |
| 10516 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc) | WLAN | 1.57 | ± 9.6 % |
| 10517 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc) | WLAN | 1.58 | ± 9.6 % |
| 10518 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc) | WLAN | 8.23 | ± 9.6 % |
| 10519 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc) | WLAN | 8.39 | ± 9.6 % |
| 10520 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc) | WLAN | 8.12 | ± 9.6 % |
| 10521 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc) | WLAN | 7.97 | ± 9.6 % |
| 10522 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10523 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc) | WLAN | 8.08 | ± 9.6 % |
| 10524 | AAC | IEEE 802.11a/h 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 | AAC | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10527 | AAC | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc) | WLAN | 8.21 | ± 9.6 % |
| 10528 | AAC | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10529 | AAC | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| | AAC | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc) | WLAN | 8.43 | ± 9.6 % |
| | AAC | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10533 | AAC | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc) | WLAN | 8.38 | ± 9.6 % |
| 10534 | AAC | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10535 | AAC | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10536 | AAC | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc) | WLAN | 8.32 | ± 9.6 % |
| 10537 | AAC | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc) | WLAN | 8.44 | ± 9.6 % |
| | AAC | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc) | WLAN | 8.54 | ±9.6% |
| | AAC | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc) | WLAN | 8.39 | ± 9.6 % |
| 10541 | AAC | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc) | WLAN | 8.46 | ± 9.6 % |
| 10542 | AAC | 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 % |
| 10644 | AAC | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc) | WLAN | 8.47 | ± 9.6 % |
| 10544 | 7770 | | ······································ | | |
| | AAC | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc) | WLAN | 8.55 | ± 9.6 % ± 9.6 % |

| 10548 | | | | | T = | 1 |
|--|-------|-------------|---|------|-------------|-------------|
| 10550 AAC | 10547 | AAC | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10551 AAC IEEE 802,11ac WHF (80MHz, MCSF, 98pc dc) WLAN 8.50 2.9 6 % | 10548 | AAC | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc) | WLAN | | 1 |
| 10552 AAC | 10550 | AAC | IEEE 802,11ac WiFi (80MHz, MCS6, 99pc dc) | WLAN | | |
| 10583 AAC | 10551 | AAC | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc) | | | |
| 10555 AAD | 10552 | AAC | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc) | WLAN | | |
| 10555 AAD | 10553 | AAC | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10556 | 10554 | AAD | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc) | WLAN | 8.48 | |
| 10557 AAD | 10555 | AAD | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc) | WLAN | 8.47 | |
| 10556 AAD | 10556 | AAD | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc) | WLAN | | |
| 10560 AAD | 10557 | AAD | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc) | WLAN | 8.52 | |
| 10561 AAD | 10558 | AAD | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc) | WLAN | 8.61 | ± 9.6 % |
| 10562 AAD | 10560 | AAD | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc) | WLAN | 8.73 | ± 9.6 % |
| 10563 AAA | 10561 | AAD | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc) | WLAN | 8.56 | ± 9.6 % |
| 10566 | 10562 | AAD | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc) | WLAN | 8.69 | ± 9.6 % |
| 10565 | 10563 | AAD | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10566 AAA | 10564 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc) | WLAN | 8.25 | |
| 10567 AAA IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc) WLAN 8.00 ± 9.6 % | 10565 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10568 AAA IEEE 802.11g WiFl 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc) | 10566 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc) | WLAN | 8.13 | ± 9.6 % |
| 10569 AAA | 10567 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc) | WLAN | 8.00 | ± 9.6 % |
| 10570 | 10568 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc) | WLAN | 8.37 | ± 9.6 % |
| 10571 AAA IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 90pc dc) WLAN 1.99 ± 9.6 % 10572 AAA IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps, 90pc dc) WLAN 1.99 ± 9.6 % 10573 AAA IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc) WLAN 1.98 ± 9.6 % 10574 AAA IEEE 802.11b WIFI 2.4 GHz (DSSS, 1.1 Mbps, 90pc dc) WLAN 1.98 ± 9.6 % 10575 AAA IEEE 802.11g WIFI 2.4 GHz (DSSS, 11 Mbps, 90pc dc) WLAN 8.59 ± 9.6 % 10576 AAA IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc) WLAN 8.59 ± 9.6 % 10576 AAA IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc) WLAN 8.70 ± 9.6 % 10578 AAA IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc) WLAN 8.70 ± 9.6 % 10578 AAA IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc) WLAN 8.70 ± 9.6 % 10579 AAA IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc) WLAN 8.36 ± 9.6 % 10580 AAA IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc) WLAN 8.36 ± 9.6 % 10580 AAA IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc) WLAN 8.36 ± 9.6 % 10580 AAA IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc) WLAN 8.36 ± 9.6 % 10580 AAA IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc) WLAN 8.36 ± 9.6 % 10582 AAA IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 56 Mbps, 90pc dc) WLAN 8.36 ± 9.6 % 10583 AAC IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 56 Wbps, 90pc dc) WLAN 8.67 ± 9.6 % 10583 AAC IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 90pc dc) WLAN 8.60 ± 9.6 % 10586 AAC IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 90pc dc) WLAN 8.60 ± 9.6 % 10586 AAC IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 90pc dc) WLAN 8.60 ± 9.6 % 10586 AAC IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 90pc dc) WLAN 8.60 ± 9.6 % 10586 AAC IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 90pc dc) WLAN 8.60 ± 9.6 % 10589 AAC IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 90pc dc) WLAN 8.60 ± 9.6 % 10589 AAC IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 90pc dc) WLAN 8.60 ± 9.6 % 10589 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) WLAN 8.67 ± 9.6 % 10589 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) WLAN 8.67 ± 9.6 % 10589 AAC IEEE 802.11n (HT Mixed, | 10569 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc) | WLAN | 8.10 | ± 9.6 % |
| 10572 AAA | 10570 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc) | WLAN | 8.30 | ± 9.6 % |
| 10573 AAA | 10571 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc) | WLAN | 1.99 | ± 9.6 % |
| 10574 AAA | 10572 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc) | WLAN | 1.99 | ± 9.6 % |
| 10575 AAA | 10573 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc) | WLAN | 1.98 | ± 9.6 % |
| 10576 | 10574 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc) | WLAN | 1.98 | ± 9.6 % |
| 10576 | 10575 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc) | WLAN | 8.59 | ± 9.6 % |
| 10578 AAA | · | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc) | WLAN | 8.60 | ± 9.6 % |
| 10579 | 10577 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10579 | 10578 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10580 AAA | 10579 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10582 AAA IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc) WLAN 8.67 ± 9.6 % 10583 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc) WLAN 8.59 ± 9.6 % 10584 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc) WLAN 8.60 ± 9.6 % 10585 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc) WLAN 8.70 ± 9.6 % 10586 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc) WLAN 8.49 ± 9.6 % 10587 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc) WLAN 8.36 ± 9.6 % 10587 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc) WLAN 8.36 ± 9.6 % 10588 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc) WLAN 8.76 ± 9.6 % 10589 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc) WLAN 8.35 ± 9.6 % 10590 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) WLAN 8.67 ± 9.6 % 10591 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) WLAN 8.67 ± 9.6 % 10591 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) WLAN 8.67 ± 9.6 % 10592 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) WLAN 8.63 ± 9.6 % 10593 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc) WLAN 8.79 ± 9.6 % 10593 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) WLAN 8.74 ± 9.6 % 10594 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) WLAN 8.74 ± 9.6 % 10595 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) WLAN 8.74 ± 9.6 % 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) WLAN 8.71 ± 9.6 % 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.71 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) WLAN 8.71 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) WLAN 8.79 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) WLAN 8.79 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc) WLAN 8.80 ± 9.6 % 10509 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc) WLAN 8.80 ± 9.6 % 10509 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc) WLAN 8.80 ± 9.6 % 10509 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc) WLAN 8.80 ± 9.6 % 10509 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc) WLA | 10580 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
| 10583 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc) WLAN 8.59 ± 9.6 % | 10581 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc) | WLAN | 8.35 | ± 9.6 % |
| 10584 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc) WLAN 8.60 ± 9.6 % 10585 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc) WLAN 8.70 ± 9.6 % 10586 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc) WLAN 8.49 ± 9.6 % 10587 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc) WLAN 8.36 ± 9.6 % 10588 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc) WLAN 8.36 ± 9.6 % 10589 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc) WLAN 8.35 ± 9.6 % 10590 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) WLAN 8.67 ± 9.6 % 10591 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) WLAN 8.63 ± 9.6 % 10591 AAC IEEE 802.11a (HT Mixed, 20MHz, MCS0, 90pc dc) WLAN 8.63 ± 9.6 % 10592 AAC IEEE 802.11a (HT Mixed, 20MHz, MCS1, 90pc dc) WLAN 8.79 ± 9.6 % 10593 AAC IEEE 802.11a (HT Mixed, 20MHz, MCS2, 90pc dc) WLAN 8.74 ± 9.6 % 10595 AAC IEEE 802.11a (HT Mixed, 20MHz, MCS3, 90pc dc) WLAN 8.74 ± 9.6 % 10596 AAC IEEE 802.11a (HT Mixed, 20MHz, MCS4, 90pc dc) WLAN 8.74 ± 9.6 % 10596 AAC IEEE 802.11a (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.71 ± 9.6 % 10597 AAC IEEE 802.11a (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.72 ± 9.6 % 10599 AAC IEEE 802.11a (HT Mixed, 20MHz, MCS6, 90pc dc) WLAN 8.79 ± 9.6 % 10599 AAC IEEE 802.11a (HT Mixed, 40MHz, MCS6, 90pc dc) WLAN 8.79 ± 9.6 % 10600 AAC IEEE 802.11a (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.79 ± 9.6 % 10600 AAC IEEE 802.11a (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.80 ± 9.6 % 10600 AAC IEEE 802.11a (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.88 ± 9.6 % 10600 AAC IEEE 802.11a (HT Mixed, 40MHz, MCS2, 90pc dc) WLAN 8.89 ± 9.6 % 10600 AAC IEEE 802.11a (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % 10600 AAC IEEE 802.11a (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % 10600 AAC IEEE 802.11a | 10582 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10585 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc) WLAN 8.70 ± 9.6 % | 10583 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc) | WLAN | 8.59 | ± 9.6 % |
| 10586 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc) WLAN 8.49 ± 9.6 % 10587 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc) WLAN 8.36 ± 9.6 % 10588 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc) WLAN 8.76 ± 9.6 % 10589 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc) WLAN 8.35 ± 9.6 % 10590 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) WLAN 8.67 ± 9.6 % 10591 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) WLAN 8.63 ± 9.6 % 10592 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) WLAN 8.79 ± 9.6 % 10593 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc) WLAN 8.64 ± 9.6 % 10594 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) WLAN 8.74 ± 9.6 % 10595 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) WLAN 8.74 ± 9.6 % 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) WLAN 8.71 ± 9.6 % 10597 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.71 ± 9.6 % 10598 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.72 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.79 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) WLAN 8.79 ± 9.6 % 10509 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc) WLAN 8.79 ± 9.6 % 10600 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.88 ± 9.6 % 10601 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.88 ± 9.6 % 10602 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc) WLAN 8.94 ± 9.6 % 10602 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % | 10584 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc) | WLAN | 8.60 | ± 9.6 % |
| 10587 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc) WLAN 8.36 ± 9.6 % 10588 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc) WLAN 8.76 ± 9.6 % 10589 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc) WLAN 8.35 ± 9.6 % 10590 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) WLAN 8.67 ± 9.6 % 10591 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) WLAN 8.63 ± 9.6 % 10592 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc) WLAN 8.79 ± 9.6 % 10593 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) WLAN 8.64 ± 9.6 % 10594 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) WLAN 8.74 ± 9.6 % 10595 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) WLAN 8.71 ± 9.6 % 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.72 ± 9.6 % 10597 AAC IEEE 802. | 10585 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10588 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc) WLAN 8.76 ± 9.6 % 10589 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc) WLAN 8.35 ± 9.6 % 10590 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) WLAN 8.67 ± 9.6 % 10591 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) WLAN 8.63 ± 9.6 % 10592 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc) WLAN 8.79 ± 9.6 % 10593 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) WLAN 8.64 ± 9.6 % 10594 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) WLAN 8.74 ± 9.6 % 10595 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.71 ± 9.6 % 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) WLAN 8.71 ± 9.6 % 10597 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) WLAN 8.72 ± 9.6 % 10598 AAC IEEE 802.11n (| 10586 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10589 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc) WLAN 8.35 ± 9.6 % 10590 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) WLAN 8.67 ± 9.6 % 10591 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) WLAN 8.63 ± 9.6 % 10592 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc) WLAN 8.79 ± 9.6 % 10593 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) WLAN 8.64 ± 9.6 % 10594 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) WLAN 8.74 ± 9.6 % 10595 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) WLAN 8.74 ± 9.6 % 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.71 ± 9.6 % 10597 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) WLAN 8.72 ± 9.6 % 10598 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc) WLAN 8.79 ± 9.6 % 10600 AAC IEEE 802.11n (HT Mi | 10587 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10589 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc) WLAN 8.35 ± 9.6 % 10590 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) WLAN 8.67 ± 9.6 % 10591 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) WLAN 8.63 ± 9.6 % 10592 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc) WLAN 8.79 ± 9.6 % 10593 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) WLAN 8.64 ± 9.6 % 10594 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) WLAN 8.74 ± 9.6 % 10595 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.74 ± 9.6 % 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.71 ± 9.6 % 10597 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) WLAN 8.72 ± 9.6 % 10598 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) WLAN 8.79 ± 9.6 % 10600 AAC IEEE 802.11n (HT Mi | 10588 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
| 10591 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) WLAN 8.63 ± 9.6 % 10592 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc) WLAN 8.79 ± 9.6 % 10593 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) WLAN 8.64 ± 9.6 % 10594 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) WLAN 8.74 ± 9.6 % 10595 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) WLAN 8.71 ± 9.6 % 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.71 ± 9.6 % 10597 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) WLAN 8.72 ± 9.6 % 10598 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) WLAN 8.50 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) WLAN 8.79 ± 9.6 % 10600 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.88 ± 9.6 % 10601 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % 10 | 10589 | | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc) | WLAN | 8.35 | ± 9.6 % |
| 10591 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) WLAN 8.63 ± 9.6 % 10592 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc) WLAN 8.79 ± 9.6 % 10593 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) WLAN 8.64 ± 9.6 % 10594 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) WLAN 8.74 ± 9.6 % 10595 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) WLAN 8.71 ± 9.6 % 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.72 ± 9.6 % 10597 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) WLAN 8.50 ± 9.6 % 10598 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc) WLAN 8.50 ± 9.6 % 10600 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.88 ± 9.6 % 10601 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc) WLAN 8.82 ± 9.6 % 10602 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % 10 | 10590 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10593 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) WLAN 8.64 ± 9.6 % 10594 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) WLAN 8.74 ± 9.6 % 10595 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) WLAN 8.74 ± 9.6 % 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.71 ± 9.6 % 10597 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) WLAN 8.72 ± 9.6 % 10598 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) WLAN 8.50 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc) WLAN 8.79 ± 9.6 % 10600 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) WLAN 8.88 ± 9.6 % 10601 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc) WLAN 8.82 ± 9.6 % 10602 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc) WLAN 8.82 ± 9.6 % 10603 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % | 10591 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) | WLAN | 8.63 | ± 9.6 % |
| 10593 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) WLAN 8.64 ± 9.6 % 10594 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) WLAN 8.74 ± 9.6 % 10595 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) WLAN 8.74 ± 9.6 % 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.71 ± 9.6 % 10597 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) WLAN 8.72 ± 9.6 % 10598 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) WLAN 8.50 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) WLAN 8.79 ± 9.6 % 10600 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.88 ± 9.6 % 10602 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % 10603 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) WLAN 9.03 ± 9.6 % | 10592 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc) | WLAN | 8.79 | ± 9.6 % |
| 10594 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) WLAN 8.74 ± 9.6 % 10595 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) WLAN 8.74 ± 9.6 % 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.71 ± 9.6 % 10597 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) WLAN 8.72 ± 9.6 % 10598 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) WLAN 8.50 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) WLAN 8.79 ± 9.6 % 10600 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.88 ± 9.6 % 10602 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % 10603 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) WLAN 9.03 ± 9.6 % | | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) | WLAN | 8.64 | ± 9.6 % |
| 10595 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) WLAN 8.74 ± 9.6 % 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.71 ± 9.6 % 10597 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) WLAN 8.72 ± 9.6 % 10598 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) WLAN 8.50 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) WLAN 8.79 ± 9.6 % 10600 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.88 ± 9.6 % 10601 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % 10603 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) WLAN 9.03 ± 9.6 % | 10594 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10596 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) WLAN 8.71 ± 9.6 % 10597 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) WLAN 8.72 ± 9.6 % 10598 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) WLAN 8.50 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) WLAN 8.79 ± 9.6 % 10600 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.88 ± 9.6 % 10601 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % 10603 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) WLAN 9.03 ± 9.6 % | 10595 | | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10598 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) WLAN 8.50 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) WLAN 8.79 ± 9.6 % 10600 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.88 ± 9.6 % 10601 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc) WLAN 8.82 ± 9.6 % 10602 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % 10603 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) WLAN 9.03 ± 9.6 % | 10596 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) | WLAN | 8.71 | ± 9.6 % |
| 10598 AAC IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) WLAN 8.50 ± 9.6 % 10599 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) WLAN 8.79 ± 9.6 % 10600 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.88 ± 9.6 % 10601 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc) WLAN 8.82 ± 9.6 % 10602 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % 10603 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) WLAN 9.03 ± 9.6 % | 10597 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) | WLAN | 8.72 | ± 9.6 % |
| 10600 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) WLAN 8.88 ± 9.6 % 10601 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc) WLAN 8.82 ± 9.6 % 10602 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % 10603 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) WLAN 9.03 ± 9.6 % | | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) | WLAN | 8.50 | ± 9.6 % |
| 10601 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc) WLAN 8.82 ± 9.6 % 10602 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % 10603 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) WLAN 9.03 ± 9.6 % | 10599 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) | WLAN | 8.79 | ± 9.6 % |
| 10601 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc) WLAN 8.82 ± 9.6 % 10602 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) WLAN 8.94 ± 9.6 % 10603 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) WLAN 9.03 ± 9.6 % | 10600 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) | WLAN | 8.88 | ± 9.6 % |
| 10603 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) WLAN 9.03 ± 9.6 % | 10601 | | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| | 10602 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) | WLAN | 8.94 | ± 9.6 % |
| | 10603 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) | WLAN | 9.03 | ± 9.6 % |
| 10604 AAC IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc) WLAN 8.76 ± 9.6 % | 10604 | + | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc) | WLAN | 8.76 | ± 9.6 % |

| | | IEEE COO 44 (UE Mind 40MH MOCO 00no do) | N/LAN | 8.97 | ± 9.6 % |
|-------|-------------|---|-----------|-------|---------|
| 10605 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10606 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc) | WLAN | | ± 9.6 % |
| 10607 | AAC | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc) | WLAN | 8.64 | |
| 10608 | AAC | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10609 | AAC | IEEE 802,11ac WiFi (20MHz, MCS2, 90pc dc) | 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 | AAD | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10637 | AAD | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc) | WLAN | 8.79 | ± 9.6 % |
| 10638 | AAD | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc) | WLAN | 8.86 | ± 9.6 % |
| 10639 | AAD | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc) | WLAN | 8.85 | ± 9.6 % |
| 10640 | AAD | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc) | WLAN | 8.98 | ± 9.6 % |
| 10641 | AAD | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc) | WLAN | 9.06 | ± 9.6 % |
| 10642 | AAD | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc) | WLAN | 9.06 | ± 9.6 % |
| 10643 | AAD | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc) | WLAN | 8.89 | ± 9.6 % |
| 10644 | AAD | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc) | WLAN | 9.05 | ± 9.6 % |
| 10645 | AAD | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc) | WLAN | 9.11 | ±9.6% |
| 10646 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7) | LTE-TDD | 11.96 | ± 9.6 % |
| 10647 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7) | LTE-TDD | 11.96 | ± 9.6 % |
| 10648 | AAA | CDMA2000 (1x Advanced) | CDMA2000 | 3.45 | ± 9.6 % |
| 10652 | AAE | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.91 | ± 9.6 % |
| 10653 | + | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.42 | ± 9.6 % |
| 10654 | AAD | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.96 | ± 9.6 % |
| 10655 | AAE | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.21 | ± 9.6 % |
| 10658 | AAA | Pulse Waveform (200Hz, 10%) | Test | 10.00 | ± 9.6 % |
| 10659 | AAA | Pulse Waveform (200Hz, 20%) | Test | 6.99 | ± 9.6 % |
| 10660 | AAA | Pulse Waveform (200Hz, 40%) | Test | 3.98 | ± 9.6 % |
| 10661 | AAA | Pulse Waveform (200Hz, 60%) | Test | 2.22 | ± 9.6 % |
| 10662 | AAA | Pulse Waveform (200Hz, 80%) | Test | 0.97 | ± 9.6 % |
| 10670 | AAA | Bluetooth Low Energy | Bluetooth | 2.19 | ± 9.6 % |
| 10671 | AAC | IEEE 802.11ax (20MHz, MCS0, 90pc dc) | WLAN | 9.09 | ± 9.6 % |
| 10672 | | IEEE 802.11ax (20MHz, MCS1, 90pc dc) | WLAN | 8.57 | ± 9.6 % |
| | | | 1 | | • |

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|---------------------------------------|------------------------------|------|------|---------|
| 10673 AAC IEEE 802. | 11ax (20MHz, MCS2, 90pc dc) | WLAN | 8.78 | ± 9.6 % |
| 10674 AAC IEEE 802. | 11ax (20MHz, MCS3, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10675 AAC IEEE 802.1 | 11ax (20MHz, MCS4, 90pc dc) | WLAN | 8.90 | ± 9.6 % |
| 10676 AAC IEEE 802. | 11ax (20MHz, MCS5, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10677 AAC IEEE 802. | 11ax (20MHz, MCS6, 90pc dc) | WLAN | 8.73 | ± 9.6 % |
| 10678 AAC IEEE 802. | 11ax (20MHz, MCS7, 90pc dc) | WLAN | 8.78 | ± 9.6 % |
| 10679 AAC IEEE 802. | 11ax (20MHz, MCS8, 90pc dc) | WLAN | 8.89 | ± 9.6 % |
| 10680 AAC IEEE 802. | 11ax (20MHz, MCS9, 90pc dc) | WLAN | 8.80 | ± 9.6 % |
| 10681 AAC IEEE 802. | 11ax (20MHz, MCS10, 90pc dc) | WLAN | 8.62 | ± 9.6 % |
| 10682 AAC IEEE 802. | 11ax (20MHz, MCS11, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10683 AAC IEEE 802. | 11ax (20MHz, MCS0, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10684 AAC IEEE 802. | 11ax (20MHz, MCS1, 99pc dc) | WLAN | 8.26 | ± 9.6 % |
| 10685 AAC IEEE 802. | 11ax (20MHz, MCS2, 99pc dc) | WLAN | 8.33 | ± 9.6 % |
| 10686 AAC IEEE 802. | 11ax (20MHz, MCS3, 99pc dc) | WLAN | 8.28 | ± 9.6 % |
| 10687 AAC IEEE 802. | 11ax (20MHz, MCS4, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10688 AAC IEEE 802. | 11ax (20MHz, MCS5, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10689 AAC IEEE 802. | 11ax (20MHz, MCS6, 99pc dc) | WLAN | 8.55 | ± 9.6 % |
| 10690 AAC IEEE 802. | 11ax (20MHz, MCS7, 99pc dc) | WLAN | 8.29 | ±9.6% |
| 10691 AAC IEEE 802. | 11ax (20MHz, MCS8, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10692 AAC IEEE 802. | 11ax (20MHz, MCS9, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10693 AAC IEEE 802. | 11ax (20MHz, MCS10, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10694 AAC IEEE 802. | 11ax (20MHz, MCS11, 99pc dc) | WLAN | 8.57 | ± 9.6 % |
| 10695 AAC IEEE 802. | 11ax (40MHz, MCS0, 90pc dc) | WLAN | 8.78 | ± 9.6 % |
| 10696 AAC IEEE 802. | 11ax (40MHz, MCS1, 90pc dc) | WLAN | 8.91 | ± 9.6 % |
| 10697 AAC IEEE 802. | 11ax (40MHz, MCS2, 90pc dc) | WLAN | 8.61 | ± 9.6 % |
| 10698 AAC IEEE 802. | 11ax (40MHz, MCS3, 90pc dc) | WLAN | 8.89 | ± 9.6 % |
| 10699 AAC IEEE 802. | 11ax (40MHz, MCS4, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10700 AAC IEEE 802. | 11ax (40MHz, MCS5, 90pc dc) | WLAN | 8.73 | ± 9.6 % |
| 10701 AAC IEEE 802. | 11ax (40MHz, MCS6, 90pc dc) | WLAN | 8.86 | ± 9.6 % |
| 10702 AAC IEEE 802. | 11ax (40MHz, MCS7, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10703 AAC IEEE 802. | 11ax (40MHz, MCS8, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10704 AAC IEEE 802. | 11ax (40MHz, MCS9, 90pc dc) | WLAN | 8.56 | ± 9.6 % |
| 10705 AAC IEEE 802. | 11ax (40MHz, MCS10, 90pc dc) | WLAN | 8.69 | ± 9.6 % |
| 10706 AAC IEEE 802. | 11ax (40MHz, MCS11, 90pc dc) | WLAN | 8.66 | ± 9.6 % |
| 10707 AAC IEEE 802. | 11ax (40MHz, MCS0, 99pc dc) | WLAN | 8.32 | ± 9.6 % |
| 10708 AAC IEEE 802. | 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 % |
| | 11ax (40MHz, MCS4, 99pc dc) | WLAN | 8.39 | ± 9.6 % |
| | 11ax (40MHz, MCS5, 99pc dc) | WLAN | 8.67 | ± 9.6 % |
| | 11ax (40MHz, MCS6, 99pc dc) | WLAN | 8.33 | ± 9.6 % |
| | 11ax (40MHz, MCS7, 99pc dc) | WLAN | 8.26 | ± 9.6 % |
| | 11ax (40MHz, MCS8, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| | 11ax (40MHz, MCS9, 99pc dc) | WLAN | 8.30 | ± 9.6 % |
| | 11ax (40MHz, MCS10, 99pc dc) | WLAN | 8.48 | ± 9.6 % |
| | 11ax (40MHz, MCS11, 99pc dc) | WLAN | 8.24 | ± 9.6 % |
| · · · · · · · · · · · · · · · · · · · | 11ax (80MHz, MCS0, 90pc dc) | WLAN | 8.81 | ± 9.6 % |
| | 11ax (80MHz, MCS1, 90pc dc) | WLAN | 8.87 | ± 9.6 % |
| | 11ax (80MHz, MCS2, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
| | 11ax (80MHz, MCS3, 90pc dc) | WLAN | 8.55 | ± 9.6 % |
| | 11ax (80MHz, MCS4, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| | 11ax (80MHz, MCS5, 90pc dc) | WLAN | 8.90 | ± 9.6 % |
| | 11ax (80MHz, MCS6, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| | 11ax (80MHz, MCS7, 90pc dc) | WLAN | 8.72 | ± 9.6 % |
| | 11ax (80MHz, MCS8, 90pc dc) | WLAN | 8.66 | ± 9.6 % |
| 10728 AAC IEEE 802. | 11ax (80MHz, MCS9, 90pc dc) | WLAN | 8.65 | ± 9.6 % |

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|----------------|------------|---|--------------------------------|--------------|--------------------|
| 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 (80MHz, 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 | 8.93 | ± 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 | AAE | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 7.99 | ± 9.6 % |
| 10768 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10769 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10770 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10771 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10772 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.23 | ±9.6% |
| 10773 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.03 | ±9.6% |
| 10774 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ±9.6% |
| 10775 | AAD | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.31 | ±9.6% |
| 10776 | AAD | 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 | AAD | 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 | AAD AAD | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | ± 9.6 % ± 9.6 % |
| 10781 | AAD | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | ± 9.6 % |
| | AAE | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.43 | |
| 10783 10784 | AAD | 5G NR (CP-OFDM, 100% RB, 3 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD 5G NR FR1 TDD | 8.31 8.29 | ±9.6% ±9.6% |
| 10/04 | רעעט | 00 141 (OF -OF DW, 100 /0 NB, 10 WILLE, QCON, 10 KILL) | ן אס ואוז דתו וטט | 0.29 | 1 2 3.0 /0 |

| 10786 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.35 ± 9. 10787 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ± 9. 10789 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ± 9. 10789 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.37 ± 9. 10790 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.37 ± 9. 10790 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 7.83 ± 9. 10791 AAD 5G NR (CP-OFDM, 18 B, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ± 9. 10792 AAD 5G NR (CP-OFDM, 18 B, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 ± 9. 10793 AAD 5G NR (CP-OFDM, 18 B, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.95 ± 9. 10793 AAD 5G NR (CP-OFDM, 18 B, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9. 10795 AAD 5G NR (CP-OFDM, 18 B, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9. 10796 AAD 5G NR (CP-OFDM, 18 B, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9. 10797 AAD 5G NR (CP-OFDM, 18 B, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9. 10798 AAD 5G NR (CP-OFDM, 18 B, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9. 10799 AAD 5G NR (CP-OFDM, 18 B, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9. 10799 AAD 5G NR (CP-OFDM, 18 B, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9. 10799 AAD 5G NR (CP-OFDM, 18 B, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9. 10799 AAD 5G NR (CP-OFDM, 18 B, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9. 10799 AAD 5G NR (CP-OFDM, 18 B, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9. 10801 AAD 5G NR (CP-OFDM, 18 B, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9. 10802 AAD 5G NR (CP-OFDM, 18 B, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9. 10803 AAD 5G NR (CP-OFDM, 18 B, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9. 10804 AAD 5G NR (CP-OFDM, 100% NR B, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9. 10805 AAD 5G NR (CP-OFDM, 50% NR B, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9. 10806 AAD 5G NR (CP-OFDM, 50% NR B, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9. 10807 AAD 5G NR (CP-OFDM, 50% NR B, 40 MHz, QPSK, 30 kHz) 5G NR FR1 | ± 9.6 % | 0.40 | CONDEDITOR | D CONTROL CONT | |
|--|--------------------|--|---------------|--|---------------|
| 10787 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.44 ± 9 10788 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 ± 9 10789 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.37 ± 9 10791 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 ± 9 10791 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 7.83 ± 9 10791 AAE 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ± 9 10792 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.92 ± 9 10793 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.95 ± 9 10794 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10795 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10796 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10797 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10798 AAD 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ± 9 10801 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ± 9 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ± 9 10803 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ± 9 10804 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ± 9 10805 AAD 5G NR (CP-OFDM, 10 RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ± 9 10806 AAD 5G NR (CP-OFDM, 50 RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ± 9 10807 AAD 5G NR (CP-OFDM, 50 RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ± 9 10808 AAD 5G NR (CP-OFDM, 50 RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ± 9 10809 AAD 5G NR (CP-OFDM, 50 RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ± 9 10801 AAD 5G NR (CP-OFDM, | ± 9.6 % | 8.40 | 5G NR FR1 TDD | | 10785 |
| 10788 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.37 ± 9 10798 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.37 ± 9 10790 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ± 9 10791 AAE 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ± 9 10792 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.92 ± 9 10793 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.92 ± 9 10793 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.92 ± 9 10794 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10795 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10796 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10797 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10796 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10797 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10797 AAD 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ± 9 10801 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ± 9 10801 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ± 9 10801 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.87 ± 9 10802 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.87 ± 9 10803 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ± 9 10802 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ± 9 10802 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ± 9 10802 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ± 9 10802 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ± 9 10802 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ± 9 10802 AAD 5G NR (CP-OFDM | ± 9.6 % | | | | |
| 10789 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.37 ±9 10790 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 7.83 ±9 10791 AAE 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9 10793 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 ±9 10793 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.95 ±9 10793 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9 10794 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9 10795 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ±9 10796 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9 10797 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9 10798 AAD 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ±9 10799 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10799 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10802 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10802 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10802 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10803 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10804 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10805 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10807 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10808 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10809 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10801 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10802 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, | ± 9.6 % | - | | | |
| 10790 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ± 9 10791 AAE 5G NR (CP-OFDM, 1 RB, 56 MHz, QPSK, 30 KHz) 5G NR RR1 TDD 7.93 ± 9 10792 AAD 5G NR (CP-OFDM, 1 RB, 16 MHz, QPSK, 30 KHz) 5G NR RR1 TDD 7.93 ± 9 10794 AAD 5G NR (CP-OFDM, 1 RB, 16 MHz, QPSK, 30 KHz) 5G NR RR1 TDD 7.95 ± 9 10794 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10794 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10795 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10796 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10796 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10797 AAD 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.99 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.99 ± 9 10801 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.99 ± 9 10801 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.99 ± 9 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.99 ± 9 10803 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.99 ± 9 10803 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.93 ± 9 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.93 ± 9 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.93 ± 9 10801 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.93 ± 9 10802 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ± 9 10802 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ± 9 10802 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ± 9 10802 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ± 9 10802 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ± 9 10802 AAD 5G NR (CP-OFDM | ± 9.6 % | | | | |
| 10791 AAE 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 ± 9 10792 AAD 5G NR (CP-OFDM, 1 RB, 16 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 ± 9 10793 AAD 5G NR (CP-OFDM, 1 RB, 16 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10794 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10795 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10796 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10797 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10798 AAD 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ± 9 10801 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ± 9 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10803 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ± 9 10803 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ± 9 10805 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ± 9 10805 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ± 9 10806 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10812 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10812 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10812 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10823 AAD 5G NR (CP- | ± 9.6 % | | | | |
| 10792 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 ± 9 10793 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.85 ± 9 10794 AAD 5G NR (CP-OFDM, 1 RB, 26 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10795 AAD 5G NR (CP-OFDM, 1 RB, 26 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ± 9 10796 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10797 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10797 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10798 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10801 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ± 9 10803 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10805 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ± 9 10807 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10808 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10809 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10811 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10813 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10814 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10815 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10816 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10817 AAE 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10818 AAD 5G NR | | | | | |
| 10793 AAD 5G NR (CP-OFDM, 1 RB, 26 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.95 ± 9 10795 AAD 5G NR (CP-OFDM, 1 RB, 26 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10796 AAD 5G NR (CP-OFDM, 1 RB, 26 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10797 AAD 5G NR (CP-OFDM, 1 RB, 26 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10797 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10798 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10799 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10801 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10803 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ± 9 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ± 9 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10809 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10809 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10812 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10812 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10812 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10812 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10813 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10823 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10824 | ± 9.6 % | | | | |
| 10794 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9 10795 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ±9 10796 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9 10797 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.01 ±9 10798 AAD 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10799 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10799 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10801 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10803 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10805 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ±9 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10809 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.37 ±9 10809 AAD 5G NR (CP-OFDM, 50% RB, 16 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10812 AAD 5G NR (CP-OFDM, 60% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10812 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10814 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10820 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10821 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10823 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10825 AAD 5G NR (CP-OFDM, 100% R | ± 9.6 % | | | | |
| 10795 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ± 9 10796 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10798 AAD 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9 10798 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10798 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10801 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10801 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ± 9 10803 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ± 9 10803 AAD 5G NR (CP-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ± 9 10805 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.37 ± 9 10809 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.37 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10812 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10812 AAD 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10812 AAD 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10812 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10812 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10812 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ± 9 1 | ± 9.6 % | | | | |
| 10796 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9 10797 AAD 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10798 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10801 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10801 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10801 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9 10803 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9 10805 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9 10805 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10809 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10801 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10801 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10810 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10812 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10813 AAD 5G NR (CP-OFDM, 100% RB, 16 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10819 AAD 5G NR (CP-OFDM, 100% RB, 16 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10820 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10821 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10824 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10824 AAD 5G NR (CP-OFD | ± 9.6 % | | | | |
| 10797 AAD 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10798 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10801 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10802 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ± 9 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ± 9 10803 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10805 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10806 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.37 ± 9 10809 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10817 AAE 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10817 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10818 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10819 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10823 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ± 9 10823 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) 5G NR FR1 TDD | ± 9.6 % | | | | |
| 10798 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10799 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9 10801 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9 10803 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9 10805 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.37 ±9 10809 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10810 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10811 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10813 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10814 AAD 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10819 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10820 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10821 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.30 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10823 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10824 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10826 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10827 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9 10828 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9 10839 AAD 5G NR | ± 9.6 % | | | | |
| 10799 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9 10802 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9 10803 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9 10803 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9 10805 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10806 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.37 ±9 10809 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10810 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10811 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10811 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10811 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10812 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10812 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10820 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.30 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.31 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 ±9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 50 kHz) 5G NR FR1 TDD 8.44 ±9 10824 AA | ± 9.6 % | | | | |
| 10801 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ± 9 10803 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ± 9 10805 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10806 AAD 5G NR (CP-OFDM, 50% RB, 16 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10809 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10810 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10812 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10817 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10819 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ± 9 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ± 9 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ± 9 10823 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 50 kHz) 5G NR FR1 TDD 8.42 ± 9 10823 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR | ± 9.6 % | | | | |
| 10802 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9 10803 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9 10805 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.37 ±9 10809 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10817 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10819 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10820 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ±9 10821 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.30 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10823 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10824 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10825 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10826 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10827 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10828 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9 10829 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9 10829 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9 10829 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9 10829 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 ±9 10830 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ±9 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ±9 10834 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ±9 | ± 9.6 % | | | | |
| 10803 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9 10805 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.37 ±9 10809 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10817 AAE 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10818 AAD 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10819 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ±9 10820 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10821 AAD | ± 9.6 % | | | | |
| 10805 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 10809 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 10811 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 10813 AAD 5G NR (CP-OFDM, 100% RB, 56 MHz, QPSK, 30 kHz) 10814 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 10815 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 10816 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 10817 AAE 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 10819 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 10821 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 10823 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 10824 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 10825 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 10826 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 10827 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 10828 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 10830 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 ± 55 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 55 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ± 55 MRZ, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ± 55 MRZ, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ± 55 | ± 9.6 % | | | | |
| 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 10809 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 10810 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 10811 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 10813 AAE 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 10814 AAE 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 10815 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 10816 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 10817 AAE 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 10818 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 10819 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 10820 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 10821 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 10823 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 10824 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 10826 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 10828 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 10830 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz) 10831 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 ±5 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ±5 10834 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ±5 10834 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ±5 | ± 9.6 % | - | | | |
| 10809 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10817 AAE 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10819 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.30 ±9 10821 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10823 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10824 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 ±9 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 ±9 10826 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10827 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9 10828 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 ±9 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.73 ±9 10830 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ±9 10831 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ±9 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 ±9 10834 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 ±9 10834 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 ±9 10834 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 ±9 10834 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 ±9 10834 AAD 5G N | ± 9.6 % | | | | |
| 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10817 AAE 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10819 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.30 ± 9 10821 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10823 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 ± 9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 ± 9 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD < | ± 9.6 % | | | | |
| 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10817 AAE 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9 10819 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ±9 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.30 ±9 10821 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10823 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 ±9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 ±9 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10826 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 </td <td>± 9.6 %</td> <td> </td> <td></td> <td></td> <td></td> | ± 9.6 % | | | | |
| 10817 AAE 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ± 9 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10819 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ± 9 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.30 ± 9 10821 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10823 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 ± 9 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10826 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ± 9 10829 | ± 9.6 % | | | | |
| 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ± 9 10819 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ± 9 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.30 ± 9 10821 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10823 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 ± 9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 ± 9 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ± 9 10828 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 ± 9 10829 | ±9.6% | | | | 1 |
| 10819 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ±9 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.30 ±9 10821 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10823 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 ±9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 ±9 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9 10828 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 ±9 10829 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.40 ±9 10830 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.63 </td <td>± 9.6 %</td> <td></td> <td></td> <td></td> <td></td> | ± 9.6 % | | | | |
| 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.30 ± 9 10821 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10823 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 ± 9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 ± 9 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ± 9 10828 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 ± 9 10829 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.40 ± 9 10830 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.63 ± 9 10831 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD <td< td=""><td>± 9.6 %</td><td>}</td><td></td><td></td><td></td></td<> | ± 9.6 % | } | | | |
| 10821 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10823 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 ± 9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 ± 9 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ± 9 10828 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 ± 9 10829 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.40 ± 9 10830 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.63 ± 9 10831 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 9 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7. | ± 9.6 % | | | | |
| 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10823 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 ± 9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 ± 9 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ± 9 10828 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 ± 9 10829 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.40 ± 9 10830 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.63 ± 9 10831 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 9 10832 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 9 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75< | ± 9.6 % | | | | |
| 10823 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 ± 9 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 ± 9 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ± 9 10828 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 ± 9 10829 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.40 ± 9 10830 AAD 5G NR (CP-OFDM, 1 00% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.63 ± 9 10831 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 ± 9 10832 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 9 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 9 10834 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.7 | ±9.6% | | | | |
| 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 ± 9 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ± 9 10828 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 ± 9 10829 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.40 ± 9 10830 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.63 ± 9 10831 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 ± 9 10832 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 9 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.70 ± 9 10834 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ± 9 | ± 9.6 % ± 9.6 % | | | | |
| 10825 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ± 9 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ± 9 10828 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 ± 9 10829 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.40 ± 9 10830 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.63 ± 9 10831 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 ± 9 10832 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 9 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.70 ± 9 10834 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ± 9 | ± 9.6 % | | | | |
| 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ± 9 10828 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 ± 9 10829 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.40 ± 9 10830 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.63 ± 9 10831 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 ± 9 10832 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 9 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.70 ± 9 10834 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ± 9 | ± 9.6 % | | | | |
| 10828 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 ± 9 10829 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.40 ± 9 10830 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.63 ± 9 10831 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 ± 9 10832 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 9 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.70 ± 9 10834 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ± 9 | ± 9.6 % | | | | |
| 10829 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.40 ± 9 10830 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.63 ± 9 10831 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 ± 9 10832 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 9 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.70 ± 9 10834 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ± 9 | ± 9.6 % | | | ····· | |
| 10830 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.63 ± 9 10831 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 ± 9 10832 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 9 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.70 ± 9 10834 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ± 9 | ± 9.6 % | | | | |
| 10831 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 ± 9 10832 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 9 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.70 ± 9 10834 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ± 9 | ± 9.6 % | | | | |
| 10832 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 ± 9 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.70 ± 9 10834 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ± 9 | ± 9.6 % | | | | |
| 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.70 ± 9 10834 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ± 9 | ± 9.6 % | | | | |
| 10834 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 ±9 | ± 9.6 % | 1 | | | |
| | ± 9.6 % | + | | | |
| 10000 1.000 1000 1000 1000 1000 1000 10 | ± 9.6 % | | | | - |
| 10836 AAD 5G NR (CP-0FDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.66 ±9 | ± 9.6 % | + | *** | | |
| | ± 9.6 % | | | | - |
| | ± 9.6 % | - | | | |
| | ± 9.6 % | | | | |
| | ±9.6% | | | | |
| | ± 9.6 % | | | | |
| | ± 9.6 % | | | | |
| | ± 9.6 % | | | | |
| | ±9.6% | | | | |
| | ±96% | ···· | | | |
| | ±9.6% | | | | |
| | ± 9.6 % | 8.35 | | | |
| | ±9.6 % | 8.36 | | | |
| | ± 9.6 % | 8.34 | | AD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz) | |
| 10860 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9 | ± 9.6 % | 8.41 | 5G NR FR1 TDD | AD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) | 10860 |

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| | | | | I | 0.00 |
|----------------|------------|--|--------------------------------|------|---------|
| 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 | AAD | 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 % |
| 10868 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.89 | ± 9.6 % |
| 10869 | AAD | 5G NR (DFT-s-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 % |
| 10872 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.52 | ± 9.6 % |
| 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 % |
| 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 | ± 9.6 % |
| 10880 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.38 | ± 9.6 % |
| 10881 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10882 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.96 | ± 9.6 % |
| 10883 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.57 | ±9.6% |
| 10884 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.53 | ± 9.6 % |
| 10885 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | ± 9.6 % |
| 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, QPSK, 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 % |
| 10889 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.02 | ± 9.6 % |
| 10890 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.40 | ± 9.6 % |
| 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 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.66 | ± 9.6 % |
| 10898 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10899 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10900 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10901 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10901 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| | | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QFSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10903 10904 | AAB AAB | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| | | | | 5.68 | ± 9.6 % |
| 10905 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10906 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QFSK, 30 KHz) | 5G NR FR1 TDD 5G NR FR1 TDD | 5.78 | ± 9.6 % |
| 10907 | AAC | | | 5.78 | ± 9.6 % |
| 10908 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD 5G NR FR1 TDD | 5.96 | ± 9.6 % |
| 10909 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | | | ± 9.6 % |
| 10910 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | |
| 10911 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10912 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10913 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10914 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.85 | ± 9.6 % |
| 10915 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10916 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10917 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10918 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10919 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10920 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10921 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10922 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.82 | ± 9.6 % |

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| 10923 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
|----------------|-----|--|--------------------------------|--------------|--------------------|
| 10924 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10925 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.95 | ± 9.6 % |
| 10926 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10927 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10928 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10929 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10930 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10931 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10932 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10933 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5,51 | ± 9.6 % |
| 10934 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10935 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10936 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10937 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.77 | ± 9.6 % |
| 10938 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10939 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.82 | ± 9.6 % |
| 10940 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.89 | ± 9.6 % |
| 10941 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10942 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ±9.6% |
| 10943 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.95 | ±9.6% |
| 10944 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.81 | ± 9.6 % |
| 10945 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10946 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10947 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10948 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10949 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10950 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10951 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.92 | ± 9.6 % ± 9.6 % |
| 10952 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.25 | ± 9.6 % |
| 10953 10954 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD 5G NR FR1 FDD | 8.15 8.23 | ± 9.6 % |
| 10955 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 13 Whz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.42 | ± 9.6 % |
| 10956 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.14 | ± 9.6 % |
| 10957 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.31 | ± 9.6 % |
| 10958 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.61 | ± 9.6 % |
| 10959 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.33 | ± 9.6 % |
| 10960 | AAC | 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 | AAC | 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 % |
| 10978 | AAA | ULLA BDR | ULLA | 2.23 | ± 9.6 % |
| 10979 | AAA | ULLA HDR4 | ULLA | 7.02 | ± 9.6 % |
| 10980 | AAA | ULLA HDR8 | ULLA | 8.82 | ± 9.6 % |
| 10981 | AAA | ULLA HDRp4 | ULLA | 1.50 | ± 9.6 % |
| 10982 | AAA | ULLA HDRp8 | ULLA | 1.44 | ± 9.6 % |
| 10983 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.31 | ± 9.6 % |
| 10984 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | | ± 9.6 % |

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| 10985 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.54 | ± 9.6 % |
|-------|-----|--|---------------|------|---------|
| 10986 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.50 | ± 9.6 % |
| 10987 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.53 | ± 9.6 % |
| 10988 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.38 | ± 9.6 % |
| 10989 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.33 | ± 9.6 % |
| 10990 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.52 | ± 9.6 % |

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

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Client

Element

Accreditation No.: SCS 0108

Certificate No: 5G-Veri10-1004_Aug22

LIBRATION CERTIFICATE 5G Verification Source 10 GHz - SN: 1004 Object QA CAL-45.v3 Calibration procedure(s) Calibration procedure for sources in air above 6 GHz August 17, 2022 Calibration date: This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) ID# Primary Standards Cal Date (Certificate No.) Scheduled Calibration SN: 9374 Reference Probe EUmmWV3 2021-12-21(No. EUmmWV3-9374_Dec21) DAE4ip SN: 1602 2022-06-27 (No. DAE4ip-1602_Jun22) Jun-23 Secondary Standards ID# Check Date (in house) Scheduled Check RF generator Anapico APSIN20G SN: 827 18-Dec-18 (in house check Dec-21) In house check: Dec-23 Name Function Signature Leif Klysner Calibrated by: Laboratory Technician Sven Kühn Approved by: **Technical Manager**

Issued: August 23, 2022

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Glossary

CW

Continuous wave

Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45-5Gsources
- IEC TR 63170 ED1, "Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz", January 2018

Methods Applied and Interpretation of Parameters

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

Calibrated Quantity

 Local peak E-field (V/m) and average of peak spatial components of the poynting vector (W/m²) averaged over the surface area of 1 cm² and 4cm² at the nominal operational frequency of the verification source. Both square and circular averaging results are listed.

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

Certificate No: 5G-Veri10-1004_Aug22 Page 2 of 7

Measurement Conditions

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

| DASY Version | DASY8 Module mmWave | V3.0 |
|--------------------------------|----------------------|------|
| Phantom | 5G Phantom | |
| Distance Horn Aperture - plane | 10 mm | |
| XY Scan Resolution | dx, dy = 7.5 mm | |
| Number of measured planes | 2 (10mm, 10mm + λ/4) | |
| Frequency | 10 GHz ± 10 MHz | |

Calibration Parameters, 10 GHz

Circular Averaging

| ~ ~ ~ | | | | | | |
|------------------------|-------|-------------|-------------|----------------------------------|-------------------|-------------|
| Distance Horn Aperture | Prad¹ | Max E-field | Uncertainty | Avg Power Density | | Uncertainty |
| to Measured Plane | (mW) | (V/m) | (k = 2) | Avg (psPDn+, psPDtot+, psPDmod+) | | (k = 2) |
| | | | | (W/m²) | | |
| | | | | 1 cm ² | 4 cm ² | |
| 10 mm | 86.1 | 146 | 1.27 dB | 53.3 | 49.4 | 1.28 dB |

Square Averaging

| Distance Horn Aperture | Prad1 | Max E-field | Uncertainty | Avg Power Density | | Uncertainty |
|------------------------|-------|-------------|-------------|----------------------------------|-------------------|-------------|
| to Measured Plane | (mW) | (V/m) | (k = 2) | Avg (psPDn+, psPDtot+, psPDmod+) | | (k = 2) |
| | | | | (W/m²) | | |
| | | | | 1 cm ² | 4 cm ² | |
| 10 mm | 86.1 | 146 | 1.27 dB | 53.4 | 49.4 | 1.28 dB |

Certificate No: 5G-Veri10-1004_Aug22

 $^{^{\}rm I}$ Assessed ohmic and mismatch loss plus numerical offset: 0.55 dB

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

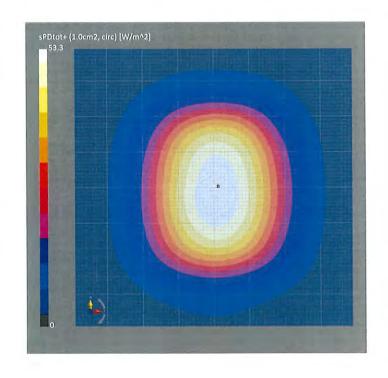
Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type | |
|-------------------------------|-----------------------|----------|----------|--|
| 5G Verification Source 10 GHz | 100.0 x 100.0 x 172.0 | SN: 1004 | C.E. | |

| Phantom Section | Position, Test Distance [mm] | Band | Group, | Frequency [MHz], Channel Number | Conversion Factor |
|-----------------|---------------------------------|-----------------|--------|------------------------------------|--------------------------|
| 5G - | 10.0 mm | Validation band | CW | 10000.0, | 1.0 |

| Hardware Setup | | | |
|-----------------------|--------|----------------------------|-----------------------|
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
| mmWave Phantom - 1002 | Air | EUmmWV3 - SN9374_F1-55GHz, | DAE4ip Sn1602, |
| | | 2021-12-21 | 2022-06-27 |

| Scan Setup | | Measurement Results | |
|---------------------|---------------|------------------------------|-------------------|
| | 5G Scan | | 5G Scan |
| Grid Extents [mm] | 120.0 x 120.0 | Date | 2022-08-17, 13:14 |
| Grid Steps [lambda] | 0.25 x 0.25 | Avg. Area [cm ²] | 1.00 |
| Sensor Surface [mm] | 10.0 | psPDn+ [W/m ²] | 53.2 |
| MAIA | MAIA not used | psPDtot+ [W/m ²] | 53.3 |
| | | psPDmod+ [W/m²] | 53.4 |
| | | E _{max} [V/m] | 146 |
| | | Power Drift [dB] | 0.00 |



Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|-------------------------------|-----------------------|----------|----------|
| 5G Verification Source 10 GHz | 100.0 x 100.0 x 172.0 | SN: 1004 | |

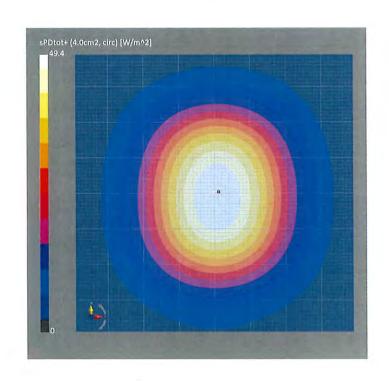
| Phantom Section | Position, Test Distance [mm] | Band | Group, | Frequency [MHz], Channel Number | Conversion Factor |
|-----------------|---------------------------------|-----------------|--------|------------------------------------|-------------------|
| 5G - | 10.0 mm | Validation band | CW | 10000.0, 10000 | 1.0 |

Hardware Setup

| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
|-----------------------|--------|----------------------------|-----------------------|
| mmWave Phantom - 1002 | Air | EUmmWV3 - SN9374_F1-55GHz, | DAE4ip Sn1602, |
| | | 2021-12-21 | 2022-06-27 |

Scan Setup

| Scan Setup | | Measurement Results | |
|---------------------|---------------|------------------------------|-------------------|
| | 5G Scan | | 5G Scan |
| Grid Extents [mm] | 120.0 x 120.0 | Date | 2022-08-17, 13:14 |
| Grid Steps [lambda] | 0.25 x 0.25 | Avg. Area [cm ²] | 4.00 |
| Sensor Surface [mm] | 10.0 | psPDn+ [W/m ²] | 49.3 |
| MAIA | MAIA not used | psPDtot+ [W/m ²] | 49.4 |
| | | psPDmod+ [W/m²] | 49.6 |
| | | E _{max} [V/m] | 146 |
| | | Power Drift [dB] | 0.00 |



Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|-------------------------------|-----------------------|----------|----------|
| 5G Verification Source 10 GHz | 100.0 x 100.0 x 172.0 | SN: 1004 | - |

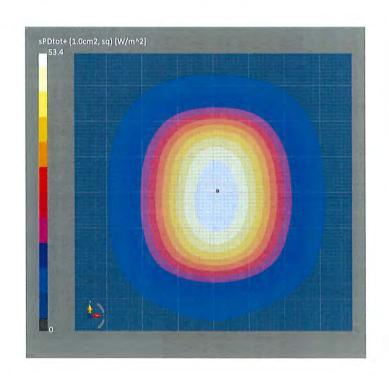
Evnosure Conditions

| Phantom Section | Position, Test Distance [mm] | Band | Group, | Frequency [MHz], Channel Number | Conversion Factor |
|-----------------|---------------------------------|-----------------|--------|------------------------------------|--------------------------|
| 5G - | 10.0 mm | Validation band | CW | 10000.0, | 1.0 |
| | | | | 10000 | |

Hardware Setup

| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
|-----------------------|--------|----------------------------|-----------------------|
| mmWave Phantom - 1002 | Air | EUmmWV3 - SN9374_F1-55GHz, | DAE4ip Sn1602, |
| | | 2021-12-21 | 2022-06-27 |

| Scan Setup | | Measurement Results | |
|---------------------|---------------|------------------------------|-------------------|
| | 5G Scan | | 5G Scan |
| Grid Extents [mm] | 120.0 x 120.0 | Date | 2022-08-17, 13:14 |
| Grid Steps [lambda] | 0.25 x 0.25 | Avg. Area [cm ²] | 1.00 |
| Sensor Surface [mm] | 10.0 | psPDn+ [W/m²] | 53.3 |
| MAIA | MAIA not used | psPDtot+ [W/m²] | 53.4 |
| | | psPDmod+ [W/m²] | 53.5 |
| | | E _{max} [V/m] | 146 |
| | | Power Drift [dB] | 0.00 |



Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

IMEI **DUT Type** Name, Manufacturer Dimensions [mm] 100.0 x 100.0 x 172.0 SN: 1004 5G Verification Source 10 GHz

Exposure Conditions

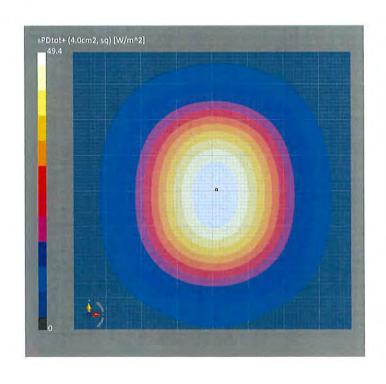
Conversion Factor Phantom Section Position, Test Distance Band Group, Frequency [MHz], **Channel Number** [mm] 10000.0, 1.0 5G -10.0 mm Validation band CW 10000

Hardware Setup

DAE, Calibration Date Probe, Calibration Date Phantom Medium EUmmWV3 - SN9374_F1-55GHz, DAE4ip Sn1602, mmWave Phantom - 1002 Air 2022-06-27 2021-12-21

Scan Setup

Measurement Results 5G Scan 5G Scan 2022-08-17, 13:14 120.0 x 120.0 **Grid Extents [mm]** Date Grid Steps [lambda] 0.25 x 0.25 Avg. Area [cm²] 4.00 psPDn+ [W/m²] 49.2 Sensor Surface [mm] 10.0 49.4 MAIA MAIA not used psPDtot+ [W/m2] psPDmod+ [W/m²] 49.5 146 E_{max} [V/m] Power Drift [dB] 0.00



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Client

PC Test

Certificate No: EUmmWV3-9407_Dec21

CALIBRATION CERTIFICATE

Object

EUmmWV3 - SN:9407

Calibration procedure(s)

QA CAL-02.v9, QA CAL-25.v7, QA CAL-42.v2

Calibration procedure for E-field probes optimized for close near field

evaluations in air

Calibration date:

December 13, 2021

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP | SN: 104778 | 09-Apr-21 (No. 217-03291/0292) | Apr-22 |
| Power sensor NRP-Z91 | SN: 103244 | 09-Apr-21 (No. 217-03291) | Apr-22 |
| Power sensor NRP-Z91 | SN: 103245 | 09-Apr-21 (No. 217-03292) | Apr-22 |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 09-Apr-21 (No. 217-03343) | Apr-22 |
| Reference Probe ER3DV6 | SN: 2328 | 08-Oct-21 (No. ER3-2328_Oct21) | Oct-22 |
| DAE4 | SN: 789 | 23-Dec-20 (No. DAE4-789_Dec20) | Dec-21 |
| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
| Power meter E4419B | SN: GB41293874 | 06-Apr-16 (in house check Jun-20) | In house check: Jun-22 |
| Power sensor E4412A | SN: MY41498087 | 06-Apr-16 (in house check Jun-20) | In house check: Jun-22 |
| Power sensor E4412A | SN: 000110210 | 06-Apr-16 (in house check Jun-20) | In house check: Jun-22 |
| RF generator HP 8648C | SN: US3642U01700 | 04-Aug-99 (in house check Jun-20) | In house check: Jun-22 |
| Network Analyzer E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-20) | In house check: Oct-22 |

Name Function Signature Calibrated by: Leif Klysner Laboratory Technician Approved by: Niels Kuster **Quality Manager**

Issued: December 13, 2021

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Glossary:

NORMx,y,z sensitivity in free space
DCP diode compression point

CF crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters

Polarization ϕ ϕ rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 0 is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system Sensor Angles sensor deviation from the probe axis, used to calculate the field orientation and polarization

k is the wave propagation direction

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 for XY sensors and 9 = 90 for Z sensor (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). For frequencies > 6 GHz, the far field in front of waveguide horn antennas is measured for a set of frequencies in various waveguide bands up to 110 GHz.
- DCPx,y,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
- The frequency sensor model parameters are determined prior to calibration based on a frequency sweep (sensor model involving resistors R, R_p, inductance L and capacitors C, C_p).
- 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.
- Sensor Offset: The sensor offset corresponds to the mechanical from the probe tip (on probe axis). No
 tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).
- Equivalent Sensor Angle: The two probe sensors are mounted in the same plane at different angles. The angles are assessed using the information gained by determining the NORMx (no uncertainty required).
- Spherical isotropy (3D deviation from isotropy): in a locally homogeneous field realized using an open waveguide / horn setup.

December 13, 2021

DASY - Parameters of Probe: EUmmWV3 - SN:9407

Basic Calibration Parameters

| | Sensor X | Sensor Y | Unc (k=2) |
|--------------------------|----------|----------|-----------|
| Norm ($\mu V/(V/m)^2$) | 0.02287 | 0.02736 | ± 10.1 % |
| DCP (mV)B | 105.0 | 105.0 | |
| Equivalent Sensor Angle | -59.0 | 30.8 | |

Calibration results for Frequency Response (750 MHz – 110 GHz)

| Frequency | Target E-Field | Frequency Response (750 Deviation Sensor X | | |
|-----------|----------------|--|-------|-----------|
| GHz | V/m | dB | dB | dB |
| 0.75 | 77.2 | -0.04 | 0.35 | ± 0.43 dB |
| 1.8 | 140.4 | 0.10 | 0.21 | ± 0.43 dB |
| 2 | 133.0 | 0.06 | 0.14 | ± 0.43 dB |
| 2.2 | 124.8 | 0.08 | 0.03 | ± 0.43 dB |
| 2.5 | 123.0 | -0.04 | -0.14 | ± 0.43 dB |
| 3.5 | 256.2 | 0.11 | -0.26 | ± 0.43 dB |
| 3.7 | 249.8 | 0.16 | -0.26 | ± 0.43 dB |
| 6.6 | 41.8 | 0.59 | 0.55 | ± 0.98 dB |
| 8 | 48.4 | 0.09 | -0.09 | ± 0.98 dB |
| 10 | 54.4 | -0.05 | 0.00 | ± 0.98 dB |
| 15 | 71.5 | 0.10 | -0.44 | ± 0.98 dB |
| 18 | 85.3 | -0.41 | 0.06 | ± 0.98 dB |
| 26.6 | 96.9 | -0.28 | -0.10 | ± 0.98 dB |
| 30 | 92.6 | 0.14 | 0.07 | ± 0.98 dB |
| 35 | 93.7 | -0.17 | -0.03 | ± 0.98 dB |
| 40 | 91.5 | -0.29 | -0.27 | ± 0.98 dB |
| 50 | 19.6 | -0.04 | 0.04 | ± 0.98 dB |
| 55 | 22.4 | 0.71 | 0.49 | ± 0.98 dB |
| 60 | 23.0 | 0.01 | -0.05 | ± 0.98 dB |
| 65 | 27.4 | -0.47 | -0.25 | ± 0.98 dB |
| 70 | 23.9 | -0.22 | -0.35 | ± 0.98 dB |
| 75 | 20.0 | 0.07 | 0.08 | ± 0.98 dB |
| 75 | 14.8 | -0.02 | 0.07 | ± 0.98 dB |
| 80 | 22.5 | 0.33 | 0.32 | ± 0.98 dB |
| 85 | 22.8 | 0.12 | 0.07 | ± 0.98 dB |
| 90 | 23.8 | -0.01 | 0.07 | ± 0.98 dB |
| 92 | 23.9 | 0.12 | -0.14 | ± 0.98 dB |
| 95 | 20.5 | -0.08 | -0.25 | ± 0.98 dB |
| 97 | 24.4 | -0.09 | -0.22 | ± 0.98 dB |
| 100 | 22.6 | 0.08 | -0.10 | ± 0.98 dB |
| 105 | 22.7 | -0.04 | 0.06 | ± 0.98 dB |
| 110 | 19.7 | 0.08 | 0.29 | ± 0.98 dB |

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

^B Numerical linearization parameter: uncertainty not required.

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

December 13, 2021

DASY - Parameters of Probe: EUmmWV3 - SN:9407

Calibration Results for Modulation Response

| UID | Communication System Name | | A dB | B dB√μV | С | D dB | VR mV | Max dev. | Max Unc ^E (k=2) |
|--------|-----------------------------|---|---------|------------|-------|---------|----------|-------------|----------------------------------|
| 0 | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 132.9 | ± 3.3 % | ± 4.7 % |
| | | Y | 0.00 | 0.00 | 1.00 | | 64.7 | | |
| 10352- | Pulse Waveform (200Hz, 10%) | X | 1.80 | 60.00 | 14.03 | 10.00 | 6.0 | ± 1.1 % | ± 9.6 % |
| AAA | | Y | 1.44 | 60.00 | 15.21 | | 6.0 | | |
| 10353- | Pulse Waveform (200Hz, 20%) | X | 1.24 | 60.00 | 12.86 | 6.99 | 12.0 | ± 0.9 % | ± 9.6 % |
| AAA | , | Y | 0.98 | 60.00 | 14.30 | | 12.0 | | |
| 10354- | Pulse Waveform (200Hz, 40%) | X | 0.75 | 60.00 | 11.49 | 3.98 | 23.0 | ± 1.2 % | ± 9.6 % |
| AAA | | Y | 0.61 | 60.00 | 13.21 | | 23.0 | | |
| 10355- | Pulse Waveform (200Hz, 60%) | X | 0.46 | 60.00 | 10.64 | 2.22 | 27.0 | ± 1.1 % | ± 9.6 % |
| AAA | | Y | 0.46 | 60.00 | 12.13 | | 27.0 | | |
| 10387- | QPSK Waveform, 1 MHz | X | 1.04 | 60.00 | 11.21 | 1.00 | 22.0 | ± 1.7 % | ± 9.6 % |
| AAA | | Y | 1.00 | 60.00 | 11.63 | | 22.0 | | |
| 10388- | QPSK Waveform, 10 MHz | Х | 1.29 | 60.00 | 11.47 | 0.00 | 22.0 | ± 0.8 % | ± 9.6 % |
| AAA | | Y | 1.33 | 60.00 | 11.95 | | 22.0 | | |
| 10396- | 64-QAM Waveform, 100 kHz | X | 1.88 | 60.00 | 13.40 | 3.01 | 17.0 | ± 1.4 % | ± 9.6 % |
| AAA | | Y | 2.08 | 60.00 | 13.29 | | 17.0 | | |
| 10399- | 64-QAM Waveform, 40 MHz | X | 2.14 | 60.00 | 12.07 | 0.00 | 19.0 | ± 1.2 % | ±9.6% |
| AAA | | Y | 2.10 | 60.00 | 12.53 | | 19.0 | | |
| 10414- | WLAN CCDF, 64-QAM, 40MHz | X | 3.23 | 60.00 | 12.55 | 0.00 | 12.0 | ± 0.8 % | ± 9.6 % |
| AAA | , | Υ | 3.06 | 60.00 | 12.96 | 1 | 12.0 |] | |

Note: For details on all calibrated UID parameters see Appendix

Calibration Results for Linearity Response

| Frequency GHz | Target E-Field V/m | Deviation Sensor X dB | Deviation Sensor Y dB | Unc (k=2) dB |
|------------------|-----------------------|-----------------------|-----------------------|-----------------|
| 0.9 | 50.0 | -0.13 | 0.14 | ± 0.2 dB |
| 0.9 | 100.0 | -0.08 | 0.11 | ± 0.2 dB |
| 0.9 | 500.0 | 0.02 | 0.01 | ± 0.2 dB |
| 0.9 | 1000.0 | 0.04 | 0.04 | ± 0.2 dB |
| 0.9 | 1500.0 | 0.03 | 0.02 | ± 0.2 dB |
| 0.9 | 2000.0 | 0.02 | 0.02 | ± 0.2 dB |

Sensor Frequency Model Parameters (750 MHz - 55 GHz)

| | Sensor X | Sensor Y |
|---------------------|----------|----------|
| $R(\Omega)$ | 80.80 | 79.18 |
| $R_{p}(\Omega)$ | 89.29 | 90.74 |
| L (nH) | 0.11236 | 0.10524 |
| C (pF) | 0.3346 | 0.3433 |
| С _р (pF) | 0.0712 | 0.0713 |

Sensor Frequency Model Parameters (55 GHz – 110 GHz)

| | Sensor X | Sensor Y |
|---------------------|----------|----------|
| R (Ω) | 37.42 | 44.29 |
| $R_{p}(\Omega)$ | 93.84 | 92.23 |
| L (nH) | 0.03160 | 0.02373 |
| C (pF) | 0.2099 | 0.5878 |
| C _ρ (pF) | 0.1306 | 0.1358 |

DASY - Parameters of Probe: EUmmWV3 - SN:9407

Sensor Model Parameters

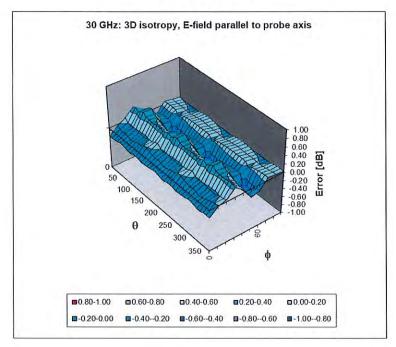
| | C1 fF | C2 fF | α V ⁻¹ | T1 ms.V ⁻² | T2 ms.V ⁻¹ | T3 ms | T4 V ⁻² | T5 V ⁻¹ | Т6 |
|---|----------|----------|----------------------|--------------------------|--------------------------|----------|-----------------------|-----------------------|------|
| X | 34.8 | 254.95 | 34.00 | 0.92 | 3.34 | 5.01 | 0.00 | 0.89 | 1.01 |
| Y | 28.3 | 204.69 | 33.51 | 0.92 | 2.86 | 5.01 | 0.00 | 1.27 | 1.00 |

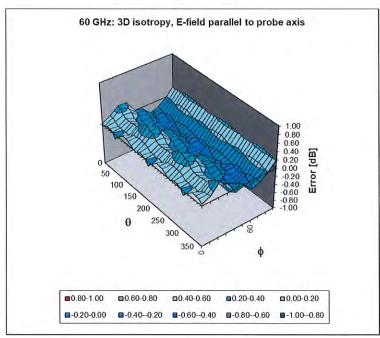
Other Probe Parameters

| Sensor Arrangement | Rectangular |
|---|-------------|
| Connector Angle (°) | 201.2 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 320 mm |
| Probe Body Diameter | 8 mm |
| Tip Length | 23 mm |
| Tip Diameter | 8.0 mm |
| Probe Tip to Sensor X Calibration Point | 1.5 mm |
| Probe Tip to Sensor Y Calibration Point | 1.5 mm |

EUmmWV3 - SN: 9407

Deviation from Isotropy in Air f = 30, 60 GHz





Probe isotropy for E_{tot}: probe rotated ϕ = 0° to 360°, tilted from field propagation direction \vec{k} Parallel to the field propagation (ψ =0° - 90°) at 30 GHz: deviation within ± 0.36 dB Parallel to the field propagation (ψ =0° - 90°) at 60 GHz: deviation within ± 0.33 dB

Appendix: Modulation Calibration Parameters

| UID | Rev | Communication System Name | Group | PAR | Unc ^E |
|-------|-----|--|-----------|--------------|------------------|
| 0 | | CW | cw | (dB) 0.00 | (k=2) ± 4.7 % |
| 10010 | CAA | SAR Validation (Square, 100ms, 10ms) | Test | 10.00 | ± 9.6 % |
| 10010 | CAA | UMTS-FDD (WCDMA) | WCDMA | 2.91 | ± 9.6 % |
| 10011 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) | WLAN | 1.87 | ± 9.6 % |
| 10012 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | WLAN | 9.46 | ± 9.6 % |
| | | GSM-FDD (TDMA, GMSK) | GSM | 9.39 | ± 9.6 % |
| 10021 | DAC | GPRS-FDD (TDMA, GMSK, TN 0) | GSM | 9.57 | ± 9.6 % |
| 10023 | DAC | GPRS-FDD (TDMA, GMSK, TN 0) GPRS-FDD (TDMA, GMSK, TN 0-1) | GSM | 6.56 | ± 9.6 % |
| 10024 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1) | GSM | 12.62 | ± 9.6 % |
| 10025 | DAC | | | 9.55 | ± 9.6 % |
| 10026 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1) | GSM | | |
| 10027 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2) | GSM | 4.80 | ± 9.6 % |
| 10028 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) | GSM | 3.55 | ± 9.6 % |
| 10029 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2) | GSM | 7.78 | ±9.6% |
| 10030 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1) | Bluetooth | 5.30 | ±9.6% |
| 10031 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3) | Bluetooth | 1.87 | ± 9.6 % |
| 10032 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5) | Bluetooth | 1.16 | ± 9.6 % |
| 10033 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1) | Bluetooth | 7.74 | ± 9.6 % |
| 10034 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3) | Bluetooth | 4.53 | ± 9.6 % |
| 10035 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5) | Bluetooth | 3.83 | ± 9.6 % |
| 10036 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1) | Bluetooth | 8.01 | ±9.6% |
| 10037 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3) | Bluetooth | 4.77 | ± 9.6 % |
| 10038 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5) | Bluetooth | 4.10 | ± 9.6 % |
| 10039 | CAB | CDMA2000 (1xRTT, RC1) | CDMA2000 | 4.57 | ± 9.6 % |
| 10042 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | AMPS | 7.78 | ± 9.6 % |
| 10044 | CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM) | AMPS | 0.00 | ± 9.6 % |
| 10048 | CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24) | DECT | 13.80 | ± 9.6 % |
| 10049 | CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12) | DECT | 10.79 | ± 9.6 % |
| 10056 | CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps) | TD-SCDMA | 11.01 | ± 9.6 % |
| 10058 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) | GSM | 6.52 | ± 9.6 % |
| 10059 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) | WLAN | 2.12 | ± 9.6 % |
| 10060 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps) | WLAN | 2.83 | ± 9.6 % |
| 10061 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps) | WLAN | 3.60 | ± 9.6 % |
| 10062 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps) | WLAN | 8.68 | ± 9.6 % |
| 10063 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps) | WLAN | 8.63 | ± 9.6 % |
| 10064 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps) | WLAN | 9.09 | ± 9.6 % |
| 10065 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps) | WLAN | 9.00 | ± 9.6 % |
| 10066 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) | WLAN | 9.38 | ± 9.6 % |
| 10067 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps) | WLAN | 10.12 | ± 9.6 % |
| 10068 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps) | WLAN | 10.24 | ± 9.6 % |
| 10069 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps) | WLAN | 10.56 | ± 9.6 % |
| 10071 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps) | WLAN | 9.83 | ± 9.6 % |
| 10072 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | WLAN | 9.62 | ± 9.6 % |
| 10073 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | WLAN | 9.94 | ± 9.6 % |
| 10074 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | WLAN | 10.30 | ± 9.6 % |
| 10075 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | WLAN | 10.77 | ± 9.6 % |
| 10076 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | WLAN | 10.94 | ± 9.6 % |
| 10077 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | WLAN | 11.00 | ± 9.6 % |
| 10081 | CAB | CDMA2000 (1xRTT, RC3) | CDMA2000 | 3.97 | ± 9.6 % |
| 10082 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | AMPS | 4.77 | ± 9.6 % |
| 10090 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-4) | GSM | 6.56 | ± 9.6 % |
| 10097 | CAB | UMTS-FDD (HSDPA) | WCDMA | 3.98 | ± 9.6 % |
| 10098 | CAB | UMTS-FDD (HSUPA, Subtest 2) | WCDMA | 3.98 | ± 9.6 % |
| 10099 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4) | GSM | 9.55 | ± 9.6 % |

| 10100 | CAE | LTE EDD/SC EDMA 1009/ BB 30 MHz OBSKV | LITE EDD | 5.67 | ± 9.6 % |
|----------------|-------------|--|--------------------|--------------|------------|
| 10100 10101 | CAE CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-FDD | 5.67 6.42 | ± 9.6 % |
| 10101 | | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | ± 9.6 % |
| 10102 | CAE CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-FDD LTE-TDD | 9.29 | ± 9.6 % |
| 10103 | CAG | LTE-TDD (SC-FDMA, 100 % RB, 20 MHz, 16-QAM) | | 9.97 | ± 9.6 % |
| 10104 | | | LTE-TDD | 10.01 | ± 9.6 % |
| | CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-TDD | 5.80 | ± 9.6 % |
| 10108 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-FDD | + | ± 9.6 % |
| 10109 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | |
| 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 | |
| 10114 | CAD | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) | WLAN | 8.10 | ± 9.6 % |
| 10115 | CAD | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) | WLAN | 8.46 | ± 9.6 % |
| 10116 | CAD | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | WLAN | 8.15 | ±9.6% |
| 10117 | CAD | 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 | CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-FDD | 6.49 | ± 9.6 % |
| 10141 | CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.53 | ± 9.6 % |
| 10142 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10143 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-FDD | 6.35 | ± 9.6 % |
| 10144 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.65 | ± 9.6 % |
| 10145 | CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.76 | ± 9.6 % |
| 10146 | CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.41 | ± 9.6 % |
| 10147 | CAF | 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 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-TDD | 9.28 | ± 9.6 % |
| 10152 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.92 | ± 9.6 % |
| 10153 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-TDD | 10.05 | ± 9.6 % |
| 10154 | CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-FDD | 5.75 | ± 9.6 % |
| 10155 | CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | ± 9.6 % |
| 10156 | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-FDD | 5.79 | ± 9.6 % |
| 10157 | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-FDD | 6.49 | ± 9.6 % |
| 10158 | CAG | 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-FDD | 6.56 | ± 9.6 % |
| | | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-FDD | 5.82 | ± 9.6 % |
| 10161 | CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | LTE-FDD | 6.43 | ± 9.6 % |
| 10162 | CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.58 | ± 9.6 % |
| 10166 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.46 | ± 9.6 % |
| 10167 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.21 | ± 9.6 % |
| 10168 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.79 | ± 9.6 % |
| 10169 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10170 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10171 | AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-FDD LTE-TDD | 9.21 | ± 9.6 % |
| 10172 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | - | 9.48 | ± 9.6 % |
| 10173 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-TDD LTE-TDD | 10.25 | ± 9.6 % |
| 10174 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-FDD | 5.72 | ± 9.6 % |
| 10176 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10177 | CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10178 | CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10178 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10179 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10181 | CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10101 | I OUF | ara i de Coo i dinin, i i ide, io mina, de ord | 1 | 1 0.70 | 1 = 0.0 /0 |

| · | *************************************** | | | | |
|----------------|---|--|---------|-------|------------|
| 10182 | CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10183 | AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10184 | CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10185 | CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-FDD | 6.51 | ± 9.6 % |
| 10186 | AAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10187 | CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10188 | CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10189 | AAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10193 | CAD | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) | WLAN | 8.09 | ± 9.6 % |
| 10194 | CAD | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | WLAN | 8.12 | ± 9.6 % |
| 10195 | CAD | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | WLAN | 8.21 | ± 9.6 % |
| 10196 | CAD | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) | WLAN | 8.10 | ± 9.6 % |
| 10197 | CAD | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) | WLAN | 8.13 | ±9.6% |
| 10198 | CAD | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) | WLAN | 8.27 | ± 9.6 % |
| 10219 | CAD | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) | WLAN | 8.03 | ± 9.6 % |
| 10220 | CAD | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) | WLAN | 8.13 | ± 9.6 % |
| 10221 | CAD | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) | WLAN | 8.27 | ± 9.6 % |
| 10222 | CAD | 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 | CAB | UMTS-FDD (HSPA+) | WCDMA | 5.97 | ± 9.6 % |
| 10226 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.49 | ± 9.6 % |
| 10227 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.26 | ± 9.6 % |
| 10228 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-TDD | 9.22 | ± 9.6 % |
| 10229 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10230 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10231 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-TDD | 9.19 | ± 9.6 % |
| 10232 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10233 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10234 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10235 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10236 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10237 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10238 | CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10239 | CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10240 | CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10241 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.82 | ± 9.6 % |
| 10242 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 9.86 | ± 9.6 % |
| 10243 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-TDD | 9.46 | ± 9.6 % |
| 10244 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| 10245 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| 10246 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-TDD | 9.30 | ± 9.6 % |
| 10247 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-TDD | 9.91 | ± 9.6 % |
| 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 % |
| 10251 | CAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-TDD | 10.17 | ± 9.6 % |
| 10252 | CAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-TOD | 9.24 | ± 9.6 % |
| 10253 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | LTE-TDD | 9.90 | ± 9.6 % |
| 10254 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | LTE-TDD | 10.14 | ± 9.6 % |
| 10255 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-TDD | 9.20 | ± 9.6 % |
| 10256 | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.96 | ± 9.6 % |
| | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.08 | ± 9.6 % |
| 10257 | | | | | ± 9.6 % |
| 10257 10258 | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-TDD | 9.34 | 1 E 0.0 /0 |
| | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-TDD | 9.98 | ± 9.6 % |

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| 10261 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-TDD | 9.24 | ± 9.6 % |
|----------|--|--|--------------|-------|-------------|
| 10262 | CAG | LTE-TDD (SC-FDMA, 100 % RB, 5 MHz, 16-QAM) | LTE-TDD | 9.24 | ± 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) | 1 | | |
| 10264 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.23 | ±9.6% |
| | | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.92 | ± 9.6 % |
| 10266 | CAG | | LTE-TDD | 10.07 | ± 9.6 % |
| 10267 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-TDD | 9.30 | ± 9.6 % |
| 10268 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| 10269 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-TDD | 10.13 | ± 9.6 % |
| 10270 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-TDD | 9.58 | ± 9.6 % |
| 10274 | CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) | WCDMA | 4.87 | ± 9.6 % |
| 10275 | CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) | WCDMA | 3.96 | ± 9.6 % |
| 10277 | CAA | PHS (QPSK) | PHS | 11.81 | ± 9.6 % |
| 10278 | CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5) | PHS | 11.81 | ± 9.6 % |
| 10279 | CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38) | PHS | 12.18 | ± 9.6 % |
| 10290 | AAB | CDMA2000, RC1, SO55, Full Rate | CDMA2000 | 3.91 | ± 9.6 % |
| 10291 | AAB | CDMA2000, RC3, SO55, Full Rate | CDMA2000 | 3.46 | ± 9.6 % |
| 10292 | AAB | CDMA2000, RC3, SO32, Full Rate | CDMA2000 | 3.39 | ± 9.6 % |
| 10293 | AAB | CDMA2000, RC3, SO3, Full Rate | CDMA2000 | 3.50 | ± 9.6 % |
| 10295 | AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr. | CDMA2000 | 12.49 | ± 9.6 % |
| 10297 | AAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-FDD | 5.81 | ± 9.6 % |
| 10298 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-FDD | 5.72 | ± 9.6 % |
| 10299 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-FDD | 6.39 | ± 9.6 % |
| 10300 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.60 | ± 9.6 % |
| 10301 | AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC) | WiMAX | 12.03 | ±9.6% |
| 10302 | AAA | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL) | WIMAX | 12.57 | ± 9.6 % |
| 10303 | AAA | IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC) | WiMAX | 12.52 | ± 9.6 % |
| 10304 | AAA | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) | WiMAX | 11.86 | ± 9.6 % |
| 10305 | AAA | IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC) | WiMAX | 15.24 | ± 9.6 % |
| 10306 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) | WiMAX | 14.67 | ± 9.6 % |
| 10307 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC) | WiMAX | 14.49 | ± 9.6 % |
| 10308 | AAA | IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) | WiMAX | 14.46 | ± 9.6 % |
| 10309 | AAA | IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3) | WiMAX | 14.58 | ± 9.6 % |
| 10310 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3 | WiMAX | 14.57 | ± 9.6 % |
| 10311 | AAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-FDD | 6.06 | ± 9.6 % |
| 10313 | AAA | IDEN 1:3 | iDEN | 10.51 | ± 9.6 % |
| 10314 | AAA | iDEN 1:6 | iDEN | 13.48 | ± 9.6 % |
| 10315 | 4 | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc) | WLAN | 1.71 | ± 9.6 % |
| 10316 | AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10317 | AAD | 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 | ± 9.6 % |
| 10355 | AAA | Pulse Waveform (200Hz, 60%) | Generic | 2.22 | ± 9.6 % |
| 10356 | AAA | Pulse Waveform (200Hz, 80%) | Generic | 0.97 | ± 9.6 % |
| 10387 | AAA | QPSK Waveform, 1 MHz | Generic | 5.10 | ± 9.6 % |
| 10387 | AAA | QPSK Waveform, 10 MHz | Generic | 5.22 | ± 9.6 % |
| 10366 | AAA | 64-QAM Waveform, 100 kHz | Generic | 6.27 | ± 9.6 % |
| 10396 | AAA | 64-QAM Waveform, 40 MHz | | | ± 9.6 % |
| 10399 | | *************************************** | Generic | 6.27 | |
| | AAE | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc) IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc) | WLAN | 8.37 | ± 9.6 % |
| 10401 | AAE | | WLAN | 8.60 | ± 9.6 % |
| 10402 | AAE | 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 % |
| 10404 | AAB | CDMA2000 (1xEV-DO, Rev. A) | CDMA2000 | 3.77 | ± 9.6 % |
| 10406 | AAB | CDMA2000, RC3, SO32, SCH0, Full Rate | CDMA2000 | 5.22 | ± 9.6 % |
| 10410 | AAG | 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 % |
| 10415 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc) | WLAN | 1.54 | ± 9.6 % |
| 10416 | AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc) | WLAN | 8.23 | ± 9.6 % |
| 10417 | AAC | IEEE 802.11a/h 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 | AAC | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) | WLAN | 8.32 | ± 9.6 % |
| 10423 | AAC | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) | WLAN | 8.47 | ± 9.6 % |
| 10424 | AAC | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) | WLAN | 8.40 | ± 9.6 % |
| 10425 | AAC | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) | WLAN | 8.41 | ± 9.6 % |
| 10426 | AAC | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) | WLAN | 8.45 | ± 9.6 % |
| 10427 | AAC | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) | WLAN | 8.41 | ± 9.6 % |
| 10430 | AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) | LTE-FDD | 8.28 | ± 9.6 % |
| 10431 | AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) | LTE-FDD | 8.38 | ± 9.6 % |
| 10432 | AAC | 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 | AAA | W-CDMA (BS Test Model 1, 64 DPCH) | WCDMA | 8.60 | ± 9.6 % |
| 10435 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10447 | AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.56 | ± 9.6 % |
| 10448 | AAD | 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 | AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.48 | ± 9.6 % |
| 10451 | AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%) | WCDMA | 7.59 | ± 9.6 % |
| 10453 | AAD | Validation (Square, 10ms, 1ms) | | 10.00 | ± 9.6 % |
| | | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc) | Test WLAN | 8.63 | ± 9.6 % |
| 10456 | AAC | | ~~~ | | + |
| 10457 | AAA | UMTS-FDD (DC-HSDPA) | WCDMA | 6.62 | ± 9.6 % |
| 10458 | AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) | CDMA2000 | 6.55 | ± 9.6 % |
| 10459 | AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers) | CDMA2000 | 8.25 | ± 9.6 % |
| 10460 | AAA | UMTS-FDD (WCDMA, AMR) | WCDMA | 2.39 | ± 9.6 % |
| 10461 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10462 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.30 | ± 9.6 % |
| 10463 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.56 | ± 9.6 % |
| 10464 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10465 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10466 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10467 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10468 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10469 | | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.56 | ± 9.6 % |
| 10470 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10471 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10472 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10473 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10474 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10475 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10477 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10478 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10479 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10480 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.18 | ± 9.6 % |
| 10481 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.45 | ± 9.6 % |
| 10482 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 7.71 | ± 9.6 % |
| 10483 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub) | LTE-TDD | 8.39 | ± 9.6 % |
| 10484 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.47 | ± 9.6 % |
| 10485 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub) | LTE-TDD | 7.59 | ± 9.6 % |
| 10486 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.38 | ± 9.6 % |
| 10487 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.60 | ± 9.6 % |
| 10488 | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.70 | ± 9.6 % |

| 10489 | AAF | 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-TDD | 8.54 | ± 9.6 % |
| 10491 | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10492 | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.41 | ± 9.6 % |
| 10493 | AAE | 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 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.54 | ± 9.6 % |
| 10497 | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub) | LTE-TDD | 7.67 | ±9.6% |
| 10498 | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.40 | ± 9.6 % |
| 10499 | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.68 | ± 9.6 % |
| 10500 | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 7.67 | ± 9.6 % |
| 10501 | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.44 | ± 9.6 % |
| 10502 | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.52 | ± 9.6 % |
| 10503 | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub) | LTE-TDD | 7.72 | ± 9.6 % |
| 10504 | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.31 | ± 9.6 % |
| 10505 | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.54 | ± 9.6 % |
| 10506 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10507 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.36 | ± 9.6 % |
| 10508 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.55 | ± 9.6 % |
| 10509 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub) | LTE-TDD | 7.99 | ± 9.6 % |
| 10510 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.49 | ± 9.6 % |
| 10510 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.51 | ± 9.6 % |
| 10511 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10512 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.42 | ± 9.6 % |
| 10514 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.45 | ± 9.6 % |
| 10515 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc) | WLAN | 1.58 | ± 9.6 % |
| 10516 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc) | WLAN | 1.57 | ± 9.6 % |
| 10517 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc) | WLAN | 1.58 | ± 9.6 % |
| 10518 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc) | WLAN | 8.23 | ± 9.6 % |
| 10519 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc) | WLAN | 8.39 | ± 9.6 % |
| 10520 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc) | WLAN | 8.12 | ± 9.6 % |
| 10521 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc) | WLAN | 7.97 | ± 9.6 % |
| 10521 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10523 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc) | WLAN | 8.08 | ± 9.6 % |
| 10523 | AAC | IEEE 802.11a/h 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 % |
| | AAC | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10527 | AAC | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc) | WLAN | 8.21 | ± 9.6 % |
| 10528 | AAC | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10528 | AAC | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10523 | AAC | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc) | WLAN | 8.43 | ± 9.6 % |
| 10532 | AAC | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10532 | AAC | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc) | WLAN | 8.38 | ± 9.6 % |
| 10534 | AAC | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10535 | AAC | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10536 | AAC | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc) | WLAN | 8.32 | ± 9.6 % |
| 10537 | AAC | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc) | WLAN | 8.44 | ± 9.6 % |
| 10537 | AAC | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc) | WLAN | 8.54 | ± 9.6 % |
| 10540 | AAC | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc) | WLAN | 8.39 | ± 9.6 % |
| 10540 | AAC | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc) | WLAN | 8.46 | ± 9.6 % |
| 10542 | AAC | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc) | WLAN | 8.65 | ± 9.6 % |
| 10542 | AAC | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc) | WLAN | 8.65 | ± 9.6 % |
| 10543 | AAC | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc) | WLAN | 8.47 | ± 9.6 % |
| 10544 | AAC | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc) | WLAN | 8.55 | ± 9.6 % |
| 10546 | AAC | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc) | | 8.35 | ± 9.6 % |
| 10340 | LANC | TIELE GOZ. I TAC VVII I (GORNITZ, MICOZ, SAPC (IC) | WLAN | 0.00 | 1 7 9.0 % |

| 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 | 8.39 | ± 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 % |
| 10552 | AAC | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10553 | AAD | IEEE 802.11ac Wifi (160MHz, MCS0, 99pc dc) | | 8.48 | ± 9.6 % |
| 10554 | AAD | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc) | WLAN WLAN | 8.47 | ± 9.6 % |
| 10556 | AAD | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc) | WLAN | 8.50 | ± 9.6 % |
| 10557 | AAD | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc) | WLAN | 8.52 | ± 9.6 % |
| 10558 | AAD | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc) | WLAN | 8.61 | ± 9.6 % |
| 10560 | | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc) | | 8.73 | ± 9.6 % |
| 10561 | AAD | | WLAN | 8.56 | ± 9.6 % |
| | AAD | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc) | WLAN | | ± 9.6 % |
| 10562 | AAD | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc) | WLAN | 8.69 | + |
| 10563 | AAD | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc) | WLAN | 8.77 | ±9.6% |
| 10564 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10565 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc) | WLAN | 8.45 | ±9.6% |
| 10566 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc) | WLAN | 8.13 | ± 9.6 % |
| 10567 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc) | WLAN | 8.00 | ± 9.6 % |
| 10568 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc) | WLAN | 8.37 | ± 9.6 % |
| 10569 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc) | WLAN | 8.10 | ± 9.6 % |
| 10570 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc) | WLAN | 8.30 | ± 9.6 % |
| 10571 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc) | WLAN | 1.99 | ± 9.6 % |
| 10572 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc) | WLAN | 1.99 | ± 9.6 % |
| 10573 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc) | WLAN | 1.98 | ± 9.6 % |
| 10574 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc) | WLAN | 1.98 | ± 9.6 % |
| 10575 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc) | WLAN | 8.59 | ± 9.6 % |
| 10576 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc) | WLAN | 8.60 | ± 9.6 % |
| 10577 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10578 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10579 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10580 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
| 10581 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc) | WLAN | 8.35 | ± 9.6 % |
| 10582 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10583 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc) | WLAN | 8.59 | ± 9.6 % |
| 10584 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc) | WLAN | 8.60 | ± 9.6 % |
| 10585 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10586 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10587 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10588 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
| 10589 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc) | WLAN | 8.35 | ± 9.6 % |
| 10590 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10591 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) | WLAN | 8.63 | ± 9.6 % |
| 10592 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc) | WLAN | 8.79 | ± 9.6 % |
| 10593 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) | WLAN | 8.64 | ± 9.6 % |
| 10594 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10595 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10596 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) | WLAN | 8.71 | ± 9.6 % |
| 10597 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) | WLAN | 8.72 | ± 9.6 % |
| 10598 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) | WLAN | 8.50 | ± 9.6 % |
| 10599 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) | WLAN | 8.79 | ± 9.6 % |
| 10600 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) | WLAN | 8.88 | ± 9.6 % |
| 10601 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10602 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) | WLAN | 8.94 | ± 9.6 % |
| 10603 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) | WLAN | 9.03 | ± 9.6 % |
| 10604 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc) | WLAN | 8.76 | ± 9.6 % |

| 10605 | AAC | 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 dc) | | | |
| 10610 | AAC | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc) | WLAN | 8.57 | ±96% |
| 10610 | AAC | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc) | WLAN | 8.78 | ±9.6% |
| 10612 | | | WLAN | 8.70 | ± 9.6 % |
| 10612 | AAC | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10613 | AAC AAC | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc) IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc) | WLAN | 8.94 | ± 9.6 % |
| | | | 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 | AAD | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10637 | AAD | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc) | WLAN | 8.79 | ± 9.6 % |
| 10638 | AAD | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc) | WLAN | 8.86 | ± 9.6 % |
| 10639 | AAD | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc) | WLAN | 8.85 | ± 9.6 % |
| 10640 | AAD | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc) | WLAN | 8.98 | ± 9.6 % |
| 10641 | AAD | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc) | WLAN | 9.06 | ± 9.6 % |
| 10642 | AAD | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc) | WLAN | 9.06 | ± 9.6 % |
| 10643 | AAD | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc) | WLAN | 8.89 | ± 9.6 % |
| 10644 | AAD | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc) | WLAN | 9.05 | ± 9.6 % |
| 10645 | AAD | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc) | WLAN | 9.11 | ± 9.6 % |
| 10646 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7) | LTE-TDD | 11.96 | ± 9.6 % |
| 10647 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7) | LTE-TDD | 11.96 | ± 9.6 % |
| 10648 | AAA | CDMA2000 (1x Advanced) | CDMA2000 | 3.45 | ± 9.6 % |
| 10652 | AAE | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.91 | ± 9.6 % |
| 10653 | AAE | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.42 | ± 9.6 % |
| 10654 | AAD | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.96 | ± 9.6 % |
| 10655 | AAE | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.21 | ± 9.6 % |
| 10658 | AAA | Pulse Waveform (200Hz, 10%) | Test | 10.00 | ± 9.6 % |
| 10659 | AAA | Pulse Waveform (200Hz, 20%) | Test | 6.99 | ± 9.6 % |
| 10660 | AAA | Pulse Waveform (200Hz, 40%) | Test | 3.98 | ± 9.6 % |
| 10661 | AAA | Pulse Waveform (200Hz, 60%) | Test | 2.22 | ± 9.6 % |
| 10662 | AAA | Pulse Waveform (200Hz, 80%) | Test | 0.97 | ± 9.6 % |
| 10670 | AAA | Bluetooth Low Energy | Bluetooth | 2.19 | ± 9.6 % |
| 10671 | AAC | IEEE 802.11ax (20MHz, MCS0, 90pc dc) | WLAN | 9.09 | ± 9.6 % |
| 10672 | AAC | IEEE 802.11ax (20MHz, MCS1, 90pc dc) | WLAN | 8.57 | ± 9.6 % |

| 10673 | AAC | IEEE 802.11ax (20MHz, MCS2, 90pc dc) | WLAN | 8.78 | ± 9.6 % |
|-------|-----|---------------------------------------|------|------|---------|
| 10674 | AAC | IEEE 802.11ax (20MHz, MCS3, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10675 | AAC | IEEE 802.11ax (20MHz, MCS4, 90pc dc) | WLAN | 8.90 | ± 9.6 % |
| 10676 | AAC | IEEE 802.11ax (20MHz, MCS5, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10677 | AAC | IEEE 802.11ax (20MHz, MCS6, 90pc dc) | WLAN | 8.73 | ± 9.6 % |
| 10678 | AAC | IEEE 802.11ax (20MHz, MCS7, 90pc dc) | WLAN | 8.78 | ± 9.6 % |
| 10679 | AAC | IEEE 802.11ax (20MHz, MCS8, 90pc dc) | WLAN | 8.89 | ± 9.6 % |
| 10680 | AAC | IEEE 802.11ax (20MHz, MCS9, 90pc dc) | WLAN | 8.80 | ± 9.6 % |
| 10681 | AAC | IEEE 802.11ax (20MHz, MCS10, 90pc dc) | WLAN | 8.62 | ± 9.6 % |
| 10682 | AAC | IEEE 802.11ax (20MHz, MCS11, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10683 | AAC | IEEE 802.11ax (20MHz, MCS0, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10684 | AAC | IEEE 802.11ax (20MHz, MCS1, 99pc dc) | WLAN | 8.26 | ± 9.6 % |
| 10685 | AAC | IEEE 802.11ax (20MHz, MCS2, 99pc dc) | WLAN | 8.33 | ± 9.6 % |
| 10686 | AAC | IEEE 802.11ax (20MHz, MCS3, 99pc dc) | WLAN | 8.28 | ± 9.6 % |
| 10687 | AAC | IEEE 802.11ax (20MHz, MCS4, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10688 | AAC | IEEE 802.11ax (20MHz, MCS5, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10689 | AAC | IEEE 802.11ax (20MHz, MCS6, 99pc dc) | WLAN | 8.55 | ± 9.6 % |
| 10690 | AAC | IEEE 802.11ax (20MHz, MCS7, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10691 | AAC | IEEE 802.11ax (20MHz, MCS8, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10692 | AAC | IEEE 802.11ax (20MHz, MCS9, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10693 | AAC | IEEE 802.11ax (20MHz, MCS10, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10694 | AAC | IEEE 802.11ax (20MHz, MCS11, 99pc dc) | WLAN | 8.57 | ± 9.6 % |
| 10695 | AAC | IEEE 802.11ax (40MHz, MCS0, 90pc dc) | WLAN | 8.78 | ± 9.6 % |
| 10696 | AAC | IEEE 802.11ax (40MHz, MCS1, 90pc dc) | WLAN | 8.91 | ± 9.6 % |
| 10697 | AAC | IEEE 802.11ax (40MHz, MCS2, 90pc dc) | WLAN | 8.61 | ± 9.6 % |
| 10698 | AAC | IEEE 802.11ax (40MHz, MCS3, 90pc dc) | WLAN | 8.89 | ± 9.6 % |
| 10699 | AAC | IEEE 802.11ax (40MHz, MCS4, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10700 | AAC | IEEE 802.11ax (40MHz, MCS5, 90pc dc) | WLAN | 8.73 | ± 9.6 % |
| 10701 | AAC | IEEE 802.11ax (40MHz, MCS6, 90pc dc) | WLAN | 8.86 | ± 9.6 % |
| 10702 | AAC | IEEE 802.11ax (40MHz, MCS7, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10703 | AAC | IEEE 802.11ax (40MHz, MCS8, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10704 | AAC | IEEE 802.11ax (40MHz, MCS9, 90pc dc) | WLAN | 8.56 | ± 9.6 % |
| 10705 | AAC | IEEE 802.11ax (40MHz, MCS10, 90pc dc) | WLAN | 8.69 | ± 9.6 % |
| 10706 | AAC | IEEE 802.11ax (40MHz, MCS11, 90pc dc) | WLAN | 8.66 | ± 9.6 % |
| 10707 | AAC | IEEE 802.11ax (40MHz, MCS0, 99pc dc) | WLAN | 8.32 | ± 9.6 % |
| 10708 | AAC | IEEE 802.11ax (40MHz, MCS1, 99pc dc) | WLAN | 8.55 | ± 9.6 % |
| 10709 | AAC | IEEE 802.11ax (40MHz, MCS2, 99pc dc) | WLAN | 8.33 | ± 9.6 % |
| 10710 | | 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 % |
| 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 % |
| 10714 | | IEEE 802.11ax (40MHz, MCS7, 99pc dc) | WLAN | 8.26 | ± 9.6 % |
| 10715 | | IEEE 802.11ax (40MHz, MCS8, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 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 % |
| 10723 | | IEEE 802.11ax (80MHz, MCS4, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10724 | _ | 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 % |
| 10727 | AAC | IEEE 802.11ax (80MHz, MCS8, 90pc dc) | WLAN | 8.66 | ± 9.6 % |
| 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 (80MHz, 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 | 8.93 | ± 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) | | | |
| 10765 | AAC | IEEE 802.11ax (160MHz, MCS10, 99pc dc) | WLAN | 8.54 | ± 9.6 % |
| 10766 | | IEEE 802.11ax (160MHz, MCS11, 99pc dc) | WLAN WLAN | 8.54 | ± 9.6 % ± 9.6 % |
| 10767 | AAE | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | | 8.51 | ± 9.6 % |
| 10768 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 7.99 | |
| 10769 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD 5G NR FR1 TDD | 8.01 | ± 9.6 % ± 9.6 % |
| 10770 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | | 8.01 | |
| 10771 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10772 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10773 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.23 | ± 9.6 % |
| 10774 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.03 | ± 9.6 % |
| 10775 | AAD | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10776 | AAD | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | | 8.31 | |
| 10777 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10778 | AAD | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10778 | AAC | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10779 | AAD | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.42 | ± 9.6 % |
| 10780 | | | 5G NR FR1 TDD | 8.38 | ± 9.6 % |
| 10781 | AAD | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | ± 9.6 % |
| | AAD | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.43 | ± 9.6 % |
| 10783 | AAE | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.31 | ± 9.6 % |
| 10784 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.29 | ± 9.6 % |

| 10705 | A A D | FO ND (CD OCDM 4000) DD 45 MH - ODDI(45 MH-) | FOND FOL TOD | 0.40 | |
|----------------|------------|---|--------------------------------|--------------|--------------------|
| 10785 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10786 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10787 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.44 | ± 9.6 % |
| 10788 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10789 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10790 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10791 | AAE | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.83 | ± 9.6 % |
| 10792 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.92 | ± 9.6 % |
| 10793 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.95 | ± 9.6 % |
| 10794 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.82 | ± 9.6 % |
| 10795 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.84 | ± 9.6 % |
| 10796 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.82 | ± 9.6 % |
| 10797 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10798 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
| 10799 | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.93 | ± 9.6 % |
| 10801 | AAD | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.89 | ±9.6% |
| 10802 | AAD | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.87 | ± 9.6 % |
| 10803 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.93 | ± 9.6 % |
| 10805 | AAD | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10806 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10809 | 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 % |
| 10812 | AAD | 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10817 | AAE | 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 % |
| 10819 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.33 | ± 9.6 % |
| 10820 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10821 10822 | AAD AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10823 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10823 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.36 | ± 9.6 % ± 9.6 % |
| 10825 | AAD | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD 5G NR FR1 TDD | 8.39 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 | AAD | 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 | | 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, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10836 | AAD | 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 % |
| 10860 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 % |

| 10001 | | | | | |
|----------------|------------|---|---------------|------|---------|
| 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 | AAD | 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 % |
| 10868 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.89 | ± 9.6 % |
| 10869 | AAD | 5G NR (DFT-s-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 % |
| 10872 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.52 | ± 9.6 % |
| 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 % |
| 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 | ± 9.6 % |
| 10880 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.38 | ± 9.6 % |
| 10881 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10882 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.96 | ± 9.6 % |
| 10883 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.57 | ± 9.6 % |
| 10884 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.53 | ± 9.6 % |
| 10885 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | ± 9.6 % |
| 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, QPSK, 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 % |
| 10889 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.02 | ±9.6% |
| 10890 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.40 | ± 9.6 % |
| 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 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.66 | ± 9.6 % |
| 10898 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10899 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10900 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10901 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10902 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10903 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10904 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10905 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10906 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10907 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.78 | ± 9.6 % |
| 10908 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10909 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.96 | ± 9.6 % |
| 10910 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10911 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10912 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10913 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10914 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.85 | ± 9.6 % |
| 10915 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10916 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10917 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10918 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10919 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10920 10921 | AAB AAB | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10921 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 KHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10322 | , 570 | 00 10 (D) 1 0 01 DM, 100 /6 NO, 20 WILE, QF ON, 30 KHZ) | 5G NR FR1 TDD | 5.82 | ± 9.6 % |

| 10923 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
|-------|-------|---|---------------|--------|------------|
| 10924 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10925 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.95 | ± 9.6 % |
| 10926 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10927 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10928 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10929 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10930 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10931 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10932 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10933 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10934 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10935 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10936 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10937 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.77 | ± 9.6 % |
| 10938 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10939 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.82 | ± 9.6 % |
| 10940 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.89 | ± 9.6 % |
| 10941 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10942 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10943 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.95 | ± 9.6 % |
| 10944 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.81 | ± 9.6 % |
| 10945 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10946 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10947 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10948 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10949 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10950 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10951 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.92 | ± 9.6 % |
| 10952 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.25 | ± 9.6 % |
| 10953 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.15 | ± 9.6 % |
| 10954 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.23 | ± 9.6 % |
| 10955 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.42 | ± 9.6 % |
| 10956 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.14 | ± 9.6 % |
| 10957 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.31 | ± 9.6 % |
| 10958 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.61 | ± 9.6 % |
| 10959 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.33 | ± 9.6 % |
| 10960 | AAC | 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 | AAC | 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 % |
| 10978 | AAA | ULLA BDR | ULLA | 2.23 | ± 9.6 % |
| 10979 | AAA | ULLA HDR4 | ULLA | 7.02 | ± 9.6 % |
| 10980 | AAA | ULLA HDR8 | ULLA | 8.82 | ± 9.6 % |
| 10981 | AAA | ULLA HDRp4 | ULLA | 1.50 | ± 9.6 % |
| 10982 | AAA | ULLA HDRp8 | ULLA | 1.44 | ± 9.6 % |
| 10002 | 1,001 | OCC (IDIQU | _ ULLA | 1 1.44 | 1 ± 3.0 /6 |

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

Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Client

Approved by

Element

Certificate No

MAGPy-H3D-2051

CALIBRATION CERTIFICATE

Object MAGPy-H3D SN: 2051

MAGPy-DAS SN: 2051

05/12/2022

Calibration procedure(s) QA CAL-48.v1

Calibration Procedure for MAGPy-8H3D+E3D

Near-field Electric and Magnetic Field Sensor System

Calibration date March 5, 2022

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3) ℃ and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|---------------------------|----------------|-----------------------------------|-----------------------|
| Power Meter U8481A | SN: MY60350004 | 01-Sep-20 (No. U4848AMY60350004) | Dec-22 |
| Power Meter R&S | SN: 101393 | 24-Jul-20 (in house check Jan-21) | In house check Jan-23 |
| NRP-18A | 1 | | |
| Calibration Kit HP 85032B | SN: 3217A11606 | 01-Jan-20 (in house check Jan-20) | Sept-22 |

| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
|---------------------------|----------------|------------------------------|------------------------|
| Network Analyzer Keysight | SN: MY49810822 | 23-Oct-19(4364810-5332750-1) | In house check: Oct-22 |
| E5061B | | | |

Name Function Signat

Calibrated by Mischa Sabathy Senior RF Engineer

Sven Kühn

Deputy Manager

Issued: March 16, 2022

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

Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Glossary

MAGPy-H3D Magnetic Amplitude and Gradient Probe - Single Sensor MAGPy-DAS Magnetic Amplitude and Gradient Data Acquisition System

Calibration is Performed According to the Following Standards:

 a) IEEE Std 1309-2013, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", November 2013

Methods Applied and Interpretation of Parameters

- Linearity: Calibration of the linearity of the field reading over the specified dynamic range. Influence of offset voltage is included in this measurement.
- · Frequency response: Calibration of the field reading over the specified frequency range.
- Receiving Pattern: Assessed for H-field polarizations ϑ , and $\phi = 0^{\circ}$...360°; $\vartheta = 90^{\circ}$, and $\phi = 0^{\circ}$...360°; for the XYZ sensors (in TEM-Cell at 10 kHz, 100 kHz and 1 MHz).
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
 - Battery characteristics: Typical values for information. A battery alarm signal is generated when the supply voltage drops below the specified level.

Reported Uncertainty

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

Certificate No: MAGPy-H3D-2051

Page 2 of 8

Measurement Conditions

| Unit Type | MAGPy-H3D (SP MGY 302 AA) | 2051 |
|------------------------|-------------------------------|---------------|
| | MAGPy-DAS-WPT (SE UMS 302 AA) | 2051 |
| | MAGPy FPGA Board | WP000100 |
| Adjustment Date | Last MAGPy Adjustment | March 5, 2022 |
| Firmware SW Version | MAGPy Firmware | Ver. 0.96 |
| Backend SW Version | MAGPy Backend | Ver. 1.0.2 |
| Calibration SW Version | MAGACAP | Ver. 0.9 |

Dynamic Range

Dynamic Range, H-field, Channel 0

| H-fi | eld/(A/m) Ta | rget | H-fie | Diffe | erence in | Acceptance | | | |
|-------|--------------|-------|-------|-------|-----------|------------|-------|-------|-------------|
| х | y | z | х | у | z | x | У | Z | in dB (k=2) |
| 0.290 | 0.310 | 0.280 | 0.300 | 0.290 | 0.280 | -0.29 | 0.58 | 0.00 | ±8.96 |
| 0.390 | 0.400 | 0.370 | 0.400 | 0.390 | 0.380 | -0.22 | 0.22 | 0.23 | ±7.60 |
| 0.530 | 0.520 | 0.500 | 0.540 | 0.520 | 0.510 | -0.16 | 0.00 | -0.17 | ±6.26 |
| 0.720 | 0.670 | 0.680 | 0.730 | 0.700 | 0.690 | -0.12 | -0.38 | -0.13 | ±5.00 |
| 0.960 | 0.930 | 0.910 | 0.980 | 0.950 | 0.930 | -0.18 | -0.18 | -0.19 | ±3.99 |
| 1.30 | 1.26 | 1.23 | 1.32 | 1.28 | 1.25 | -0.13 | -0.14 | -0.14 | ±3.11 |
| 1.75 | 1.71 | 1.66 | 1.78 | 1.73 | 1.69 | -0.15 | -0.10 | -0.16 | ±2.41 |
| 2.34 | 2,28 | 2.22 | 2.38 | 2.31 | 2.25 | -0.15 | 0.11 | -0.12 | ±1.86 |
| 3.15 | 3.07 | 3.00 | 3.21 | 3.12 | 3.04 | -0.16 | 0.14 | -0.12 | ±1.42 |
| 4,27 | 4.14 | 4.06 | 4.33 | 4.21 | 4.10 | -0.12 | -0.15 | -0.09 | ±1.07 |
| 5.78 | 5.59 | 5.48 | 5.84 | 5.69 | 5.54 | -0.09 | 0.15 | -0.10 | ±0.80 |
| 7.78 | 7.47 | 7.33 | 7.79 | 7.59 | 7.40 | -0.01 | -0.14 | -0.08 | ±0.60 |
| 10.5 | 10.1 | 9.88 | 10.5 | 10.2 | 9.98 | 0.01 | -0.13 | -0.09 | ±0.20 |
| 14.2 | 13.7 | 13.3 | 14.2 | 13.8 | 13.5 | -0.01 | -0.10 | -0.09 | ±0.20 |
| 19.0 | 18.5 | 18.0 | 19.1 | 18.7 | 18.2 | -0.03 | -0.07 | -0.06 | ±0.20 |
| 25.4 | 24.8 | 24.1 | 25.4 | 24.9 | 24.2 | -0.03 | -0.04 | -0.07 | ±0.20 |
| 34.4 | 33.6 | 32.6 | 34.5 | 33.7 | 32.9 | -0.04 | -0.04 | -0.06 | ±0.20 |
| 46.2 | 45.2 | 44.0 | 46.1 | 45.1 | 43.9 | 0.01 | 0.02 | 0.02 | ±0.20 |
| 61.8 | 60.5 | 58.9 | 61.7 | 60.5 | 58.8 | 0.01 | 0.01 | 0.02 | ±0.20 |
| 82.7 | 81.1 | 78.9 | 82.6 | 81.0 | 78.7 | 0.01 | 0.01 | 0.02 | ±0.20 |
| 109 | 107 | 104 | 109 | 107 | 104 | 0.01 | 0.01 | 0.01 | ±0.20 |
| 149 | 147 | 143 | 149 | 146 | 142 | 0.01 | 0.03 | 0.02 | ±0.20 |
| 194 | 190 | 185 | 193 | 190 | 184 | 0.03 | 0.03 | 0.03 | ±0.20 |
| 267 | 262 | 255 | 266 | 261 | 253 | 0.04 | 0.05 | 0.04 | ±0.20 |
| 378 | 372 | 361 | 376 | 369 | 359 | 0.04 | 0.05 | 0.05 | ±0.20 |
| 540 | 531 | 515 | 546 | 537 | 521 | -0.09 | -0.09 | -0.10 | ±0.20 |
| 807 | 795 | 772 | 812 | 800 | 776 | -0.06 | 0.05 | -0.05 | ±0.20 |
| 1210 | 1200 | 1160 | 1210 | 1200 | 1160 | -0.01 | 0.00 | 0.00 | ±0.20 |
| 2050 | 2020 | 1960 | 2040 | 2010 | 1950 | 0.05 | 0.07 | 0.06 | ±0.20 |
| 2450 | 2410 | 2340 | 2430 | 2390 | 2320 | 0.07 | 0.07 | 0.07 | ±0.20 |

H-field linearity acceptance criteria: All calibration points with sufficient signal to noise ratio (above levels of $10.0 \,\text{A/m}$) shall be within $< 0.20 \,\text{dB}$ (k=1.73).

Frequency Response

Frequency Response, H-field, Channel 0

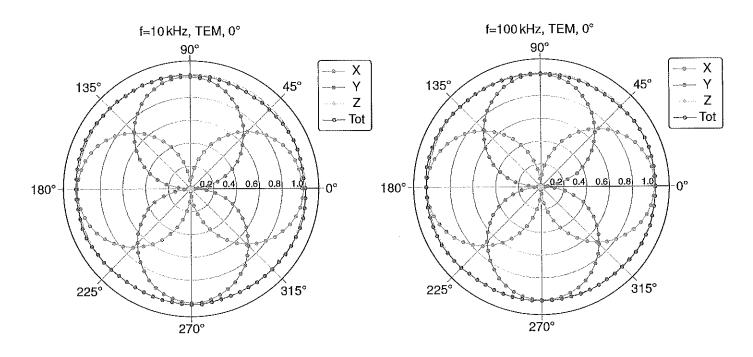
| 1 | H-field/(A/m) Target | | rget | H-field/(A/m) Reading | | | Difference in dB | | | Acceptance |
|----------|----------------------|-------|-------|-----------------------|-------|-------|------------------|-------|-------|-------------|
| f/Hz | x | `y | z | x | y | z | x | у | z | in dB (k=2) |
| 3000 | 0.892 | 0.893 | 0.892 | 0.895 | 0.898 | 0.896 | -0.03 | -0.05 | -0.04 | ±0.95 |
| 3257 | 0.894 | 0.894 | 0.894 | 0.891 | 0.904 | 0.902 | 0.03 | -0.10 | -0.08 | ±0.95 |
| 4125 | 0.897 | 0,897 | 0.897 | 0.902 | 0.905 | 0.912 | -0.05 | -0.08 | -0.14 | ±0.95 |
| 5223 | 0.894 | 0.901 | 0.901 | 0.906 | 0.913 | 0.911 | -0.12 | -0.11 | -0.10 | ±0.95 |
| 6615 | 0.898 | 0.905 | 0.905 | 0.906 | 0.914 | 0.911 | -0.08 | -0.09 | -0,06 | ±0.95 |
| 8377 | 0.902 | 0.908 | 0.908 | 0.919 | 0.918 | 0.917 | -0.16 | -0.10 | 0.09 | ±0.95 |
| 10608 | 0,911 | 0.911 | 0.911 | 0.916 | 0.919 | 0.913 | -0.05 | -0,08 | -0.02 | ±0.95 |
| 13434 | 0.913 | 0.913 | 0.913 | 0.917 | 0.922 | 0.918 | -0.04 | -0.09 | -0.05 | ±0.95 |
| 17013 | 0.914 | 0.914 | 0.914 | 0.920 | 0.924 | 0.918 | -0.06 | -0.09 | -0.04 | ±0.95 |
| 21544 | 0.915 | 0.915 | 0.915 | 0.924 | 0.925 | 0.927 | 0.09 | -0.09 | -0.11 | ±0.95 |
| 27283 | 0.915 | 0.915 | 0.915 | 0.922 | 0.924 | 0.924 | -0.07 | -0.09 | -0.09 | ±0.95 |
| 34551 | 0.915 | 0.915 | 0.915 | 0.922 | 0,925 | 0.924 | -0.07 | -0.09 | -0.09 | ±0.95 |
| 43755 | 0.915 | 0.915 | 0.915 | 0.921 | 0.923 | 0.918 | -0.06 | -0.08 | -0.03 | ±0.95 |
| 55410 | 0.915 | 0.915 | 0.915 | 0.922 | 0.922 | 0.925 | -0.07 | -0.07 | -0.09 | ±0.95 |
| 70170 | 0.915 | 0.915 | 0.915 | 0.922 | 0.925 | 0.923 | -0.07 | -0.09 | 0.08 | ±0.95 |
| 88862 | 0.915 | 0.915 | 0.915 | 0.922 | 0.925 | 0.925 | -0.07 | -0.09 | 0.09 | ±0.95 |
| 112534 | 0.915 | 0.915 | 0.915 | 0.923 | 0.922 | 0.922 | -0.08 | 0.07 | -0.07 | ±0.95 |
| 142510 | 0.915 | 0.915 | 0.915 | 0.921 | 0.927 | 0.924 | -0.06 | -0.11 | -0.09 | ±0.95 |
| 180472 | 0.914 | 0.914 | 0.914 | 0.921 | 0.924 | 0.922 | -0.07 | -0.09 | -0.08 | ±0.95 |
| 228546 | 0.914 | 0.914 | 0.913 | 0.923 | 0.923 | 0.922 | -0.09 | -0.09 | -0.09 | ±0.95 |
| 289427 | 0.910 | 0.910 | 0.910 | 0.919 | 0.920 | 0.918 | -0.09 | -0.09 | -0.08 | ±0.95 |
| 366524 | 0.900 | 0.901 | 0.900 | 0.908 | 0.911 | 0.910 | -0.08 | -0.10 | -0.10 | ±0.95 |
| 464159 | 0.869 | 0.869 | 0.869 | 0.876 | 0.878 | 0.877 | -0.07 | -0.09 | -0.08 | ±0.95 |
| 587802 | 0.936 | 0.935 | 0.935 | 0.942 | 0.945 | 0.944 | -0.06 | -0.09 | -0.08 | ±0.95 |
| 744380 | 0.937 | 0.937 | 0.937 | 0.944 | 0.942 | 0.946 | -0.06 | -0.05 | -0.08 | ±0.95 |
| 942668 | 0.943 | 0.943 | 0.943 | 0.951 | 0.954 | 0.953 | -0.07 | -0.10 | -0.09 | ±0.95 |
| 1193777 | 0.947 | 0.947 | 0.947 | 0.955 | 0.952 | 0.958 | -0.07 | -0.05 | -0.10 | ±0.95 |
| 1511775 | 0.949 | 0.949 | 0.948 | 0.956 | 0.953 | 0.959 | -0.06 | -0.04 | -0.10 | ±0.95 |
| 1914482 | 0.952 | 0.951 | 0.951 | 0.958 | 0.959 | 0.961 | 0.05 | -0.07 | 0.09 | ±0.95 |
| 2424462 | 0.956 | 0.956 | 0.956 | 0.961 | 0,962 | 0.966 | 0.05 | -0.05 | 0.09 | ±0.95 |
| 3070291 | 0.959 | 0.959 | 0.959 | 0.967 | 0.966 | 0.971 | -0.07 | -0.06 | -0.11 | ±0.95 |
| 3888155 | 0.960 | 0.960 | 0.960 | 0.968 | 0.949 | 0.970 | -0.07 | 0.10 | -0.09 | ±0.95 |
| 4923883 | 0.962 | 0.962 | 0.962 | 0.969 | 0.976 | 0.971 | -0.06 | -0.13 | -0.08 | ±0.95 |
| 6235507 | 0.963 | 0.963 | 0.963 | 0.970 | 0.964 | 0.965 | -0.06 | -0.01 | -0.02 | ±0.95 |
| 7896523 | 0.972 | 0.972 | 0.972 | 0.977 | 0.971 | 0.976 | -0.04 | 0.01 | -0.04 | ±0.95 |
| 10000000 | 0.984 | 0.984 | 0.984 | 0.992 | 0.994 | 0.991 | -0.07 | -0.09 | -0.06 | ±0.95 |

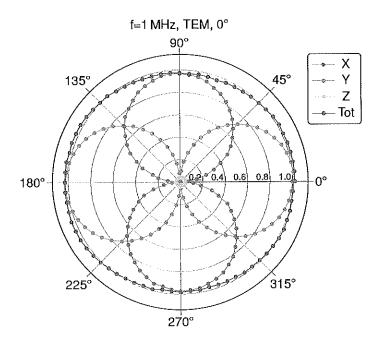
H-field calibration acceptance criteria: 95% of the calibration points shall be within $< 0.95\,dB$ as per manufacturer specifications. All calibration points shall be within $< 1.35\,dB$, corresponding to a coverage probability of 99.73%.

Uncertainty of the H-field calibration measurement is ± 0.95 dB (k=2).

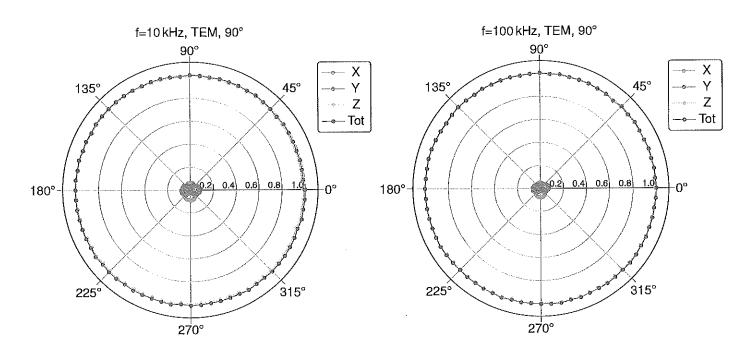
Isotropy H-Field

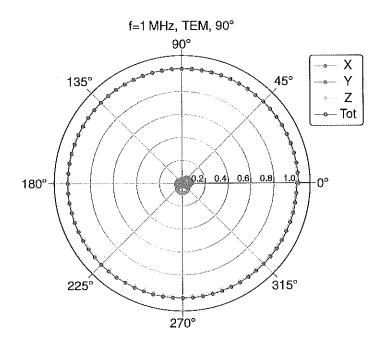
H-Field Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$





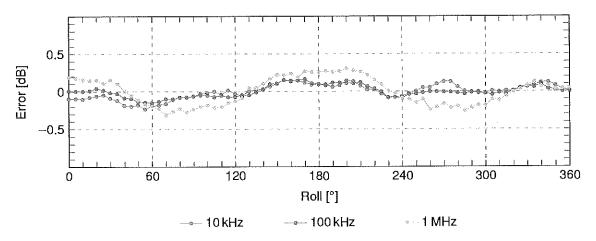
H-Field Receiving Pattern (ϕ), $\vartheta = 90^{\circ}$





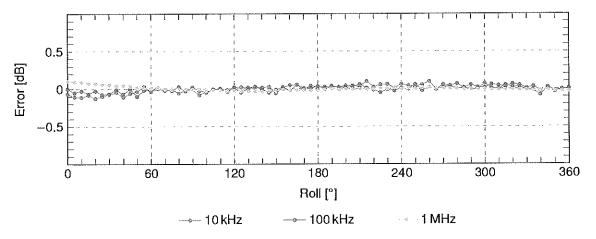
Certificate No: MAGPy-H3D-2051

H-Field Receiving Pattern (ϕ), $\theta = 0^{\circ}$



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

H-Field Receiving Pattern (ϕ), $\theta = 90^{\circ}$



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

Appendix

Battery Characteristics (Typical values for information)

| Nominal Battery Voltage | 14.414.8 V |
|---------------------------|------------|
| Low Battery Alarm Voltage | 8.45 V |
| Battery Capacity | 2600 mAh |

Calibration Laboratory of

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

Client

Element

Certificate No:V-Coil50/400-1012_Mar22

| CALIBRATION | ICERTIFICAT | E | |
|----------------------------|---------------------------------|--|--|
| Object | V-Coil50/400 - | SN: 1012 | |
| Calibration procedure(s) | QA CAL-47.v1 Calibration Pro | cedure for MAGPy Validation Soເ | Irce / J J J J J J J J J J J J J J J J J J |
| Calibration date: | March 9, 2022 | | |
| The measurements and the | uncertainties with confidence | national standards, which realize the physical of probability are given on the following pages atory facility: environment temperature (22 ± 3 | and are part of the certificate. |
| Calibration Equipment used | | | |
| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
| MAGPy-H3D/DAS | SN: 1017/1017 | 20-Jun-21 (MAGPy-H3D-1017) | Jun-22 |
| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
| | Name | Function | Signature |
| Calibrated by: | Jingtian Xi | Project leader | Ingth/10- |
| Approved by: | Niels Kuster | Quality Manager | |
| | | de la companya de la | Januard March 45, 2022 |

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Calibration Laboratory of

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

Glossary:

V-Coil50/400 system check and validation source

Calibration is Performed According to the Following Standards:

Internal procedure QA CAL-47-Calibration procedure for sources from 3 kHz to 10 MHz

Additional Documentation:

a) DASY8 Module WPT Manual

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: The verification sources are switched on for at least 10 minutes. The current in time domain is measured prior and after the measurement with the oscilloscope to verify that harmonics can be neglected. Then the current is measured with the voltmeter and an FFT analysis of the time domain signal is performed to derive the amplitude of the fundamental current component (see the Appendix for the conversion).
- Source Positioning: The Validation Source is placed in the center of the platform such that the device surface is parallel to phantom surface. Initial probe location is the center of the coil and the distance of the probe tip to the surface of <0.1mm is verified using mechanical gauge.
- H-field distribution: H field is measured in the volume above the Validation Source in a rectilinear grid of 7mm x 7mm x 7mm.
- H-field at 2mm and Induced Values at 2mm: The H-field and the induced field and current quantities at the surface inside the infinite the virtual half space phantom ($\varepsilon_r = 4.34 \times 10^3$, $\sigma = 0.355$ S/m) at the distance of 2mm from the surface are reconstructed quantities.

Calibrated Quantity

• The calibration quantities are induced peak E-field (2mm cube average), induced peak E-field (5mm line average), induced peak current density (1cm² area average), induced peak spatial SAR (1g and 10g averaged) at 2mm (+/-0.1) from the surface or 4.7 mm from the physical coil (PCB thickness = 1.7 mm, surface film thickness = 1.0 mm).

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

Measurement Conditions

| | V-Coil50/400 | 1012 |
|------------------|-------------------|------------------------------------|
| Object model | Frequency | 400 kHz |
| | MAGPy-H3D | 1017 |
| Probe model | MAGPy-DAS | 1017 |
| | MAGPy FPGA Board | WP000029 |
| | cDASY6 Module WPT | 1.2.0.8 |
| Software version | Notebook GUI | 1.2.5 |
| | Sim4Life | 6,2,0,4280 |
| | Type | Dynamic |
| Scan setup | Grid size | X: 7.00 mm, Y: 7.00 mm, Z: 7.00 mm |

Calibrated Parameters: 400 kHz

| Distance of the Virtual | Peak H- | Unc. | Induced peak current density, 1cm ² | Induced field(| • | peak sp (mV | Unc. | | |
|----------------------------|----------------|-------------------|--|---------------------|-----------|----------------|-------------|---------------|--|
| Phantom from the Surface | field (A/m) | field (k=2) densi | | 2mm cube avg. | cube line | | 10g avg. | (k=2) (dB) | |
| 2.00 mm | 251 | 1.23 | 1.38 | 4.65 | 4.76 | 3.94 | 1.93 | 1.59 | |

Appendix (Additional assessments outside the scope of SCS 0108)

Total current measurement

| | U (V) | l (A, = U) |
|---------------------|--------|------------|
| Total current (RMS) | 0.8132 | 0.8132 |

Current spectrum measurement

| Frequency (kHz) | Measured power (dBm) | Power coverted (W) | U (V) (R = 50 Ω) | I (A) | Inormalized (A) |
|--------------------|-------------------------|-----------------------|---------------------|--------|-----------------|
| 400 | 10.9 | 1.23E-02 | 0.7843 | 0.7843 | 0.7954 |
| 1200 | -22.1 | 6.17E-06 | 0.0176 | 0.0143 | 0.0178 |

Measurement report

cDASY6 Module WPT Measurement Report

Device under test

Model / Manufacturer: V-Coil50/400 & SPEAG

V-Goil50/400 & SPEAG Serial number:

SN1012

Dimensions:

-

Measurement scenario: full auto scan, ref probe

Measurement results

Maximum H-field: 162.96 A/m (rms)

Location of maximum relative to DUT: X: 0.00 m, Y: 0.00 m, Z: 7.00 mm

Maximum H-field (x, y, z): 134.30 A/m, 135.21 A/m, 229.86 A/m

Peak frequency: 400.00 kHz (median)

Distance to -20.0 dB boundary:

39.60 mm

Hardware setup

DASY version:

cDASY6 Module WPT, 1.2.0.8

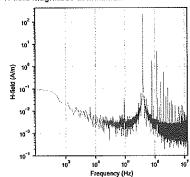
Notebook version:

1.2.5

Probe model / serial number:

Single Probe with reference / WP000029

H-field magnitude at maximum



Scan setup

Type: Dynamic

Resolution:

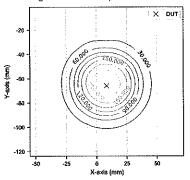
X: 7.00 mm, Y: 7.00 mm, Z: 7.00 mm

Dimensions:

X: 126.00 mm, Y: 119.00 mm, Z: 56.00 mm

Completed on: 2022/03/09 12:34:58

H-field magnitude at lowest plane



Induced quantities in the anatomical model (1=400.00 kHz, σ = 0.355 S/m, reconstruction error = 6.4%)

| | | Peak Eind (Vim. cas) | | Peak Jind (A/m^2, rms) | psSAR (mW/kg) | | | |
|--------------|----------------------|----------------------|-----------|------------------------|---------------|----------|--------------------|--|
| Specing (mm) | Peak Hinc (A/m, rms) | Cube avg. | Line avg. | Surface avg. | 1g avg. | 10g avg. | -20 dB radius (mm) | |
| 2,00 | 251 | 4.65 | 4.76 | 1.38 | 3.94 | 1.93 | 38.6 | |

Standard compliance evaluation

| 1 | ICNIRP 2020 (dB) | | | ICNIRP 19 | 98 (dB) | | IEEE 2019 | (dB) | | FCC 2020 | (dB) | | HC Code 6 | (dB) | |
|-----------------|-------------------|-------------------|---------------|-------------------|-------------------|---------------|-------------------|-------|---------------|-------------------|-------------------|---------------|-------------------|-------------------|---------------|
| Spacing (mm) | Peak Hind (RL) | Peak Eind (BR) | psSAR (BR) | Peak Hinc (RL) | Peak Jind (BR) | psSAR (BR) | Peak Hinc (RL) | (BR) | psSAR (BR) | Peak Hinc (RL) | Peak Eind (BR) | psSAR (BR) | Peak Hinc (RL) | Peak Eind (BR) | psSAR (BR) |
| 2,00 | 26.7 | -21,1 | -30.1 | 43.2 | 4.88 | -30.1 | 9.28 | -24.7 | -30.1 | 44.0 | -21.2 | -28.1 | 43.2 | -21.2 | -26.1 |

 $Standard\ compliance\ evaluation\ (coverage\ factor-adjusted) \quad \textit{(Coefficients:}\ w_{Ee}=3.0,\ w_{SI}=2.0,\ w_{SAR10}=1.0,\ w_{SAR10}=1.0,\$

| ! | | ICNIRP 2020 (dB) | | ICNIRP 2020 (dB) ICNIRP 1998 (dB) | | | JEEE 2019 (dB) | | FCC 2020 (dB) | | HC Code 6 (dB) | | |
|---|--------------|------------------|------------|-----------------------------------|------------|----------------|----------------|----------------|---------------|-------|----------------|--|--|
| İ | Spacing (mm) | Peak Eind (BR) | psSAR (BR) | Peak Jind (BR) | psSAR (BR) | Peak Eind (BR) | psSAR (BR) | Peak Eind (BR) | ps SAR (BR) | | psSAR (BR) | | |
| | 2.00 | -13.9 | -31.3 | 2,62 | -31.3 | -21.0 | -31.3 | -13.9 | -27.2 | -13.9 | -27.2 | | |



Customer: PCTEST ENGINEERING LAB

9017 MENDENHALL CT

SUITE G

COLUMBIA, MD 21045

PO Number: 220121.KW45



ANAB AC-2489.03

Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

Manufacturer: Rigol Technologies, Inc.

Model Number: DS1052E

Description: Oscilloscope, 2 Channel Serial Number: DS1ED124011876

ID: 83123

As-Found: In Tolerance

As-Left: In Tolerance

Issue Date: Mar 22, 2022

Calibration Date: Mar 22, 2022

Due Date: Mar 22, 2024

5/11/2022

Calibrated To: Manufacturer Specification

Calibration Procedure: 1-AC47978-2

Transcat Calibration Laboratories have been audited and found in compliance with ISO/IEC 17025:2017. Accredited calibrations performed within the Lab Scope of Accreditation are indicated by the presence of the Accrediting Body Logo and Certificate Number. Any measurements on an accredited calibration not covered by the Lab Scope of Accreditation are listed in the notes section of the certificate. SCC, NRC, CLAS or ANAB do not guarantee the accuracy of an individual calibration by accredited laboratories.

Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual QAC-P01-000, the customer Purchase Order and/or Quality Agreement requirements, ISO 9001:2015, ANSI/NCSL Z540.1-1994 (R2002), and ISO 10012:2003, as applicable. When specified contractually, the requirements of ISO TS16949:2009, 10CFR21, 10CFR50 App. B, ASME NQA-1:2012, and ANSI/NCSL Z540.3-2006 (R2013) are also covered.

Complete records of work performed are maintained by Transcat and are available for inspection. Laboratory standards used in the performance of this calibration are listed on this certificate.

Transcat documents the traceability of measurements to the SI units through the National Institute of Standards and Technology (NIST), or the National Research Council of Canada (NRC), or other national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Arrangement, or accepted fundamental and/or natural physical constants, or by the use of specified methods, consensus standards or ratio type measurements.

Documentation supporting traceability information is available for review upon written request at a Transcat facility. The measured quantity and the measurement uncertainty are required for further dissemination of traceability.

Uncertainties are reported with a coverage factor k=2, providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless otherwise noted. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/cm³.

The results in this report relate only to the item calibrated or tested. Recorded calibration data is valid at the time of calibration within the stated uncertainties at the environmental conditions noted. The determination of compliance to the specification is specific to the model/serial no./ID no. referenced above based on the tolerances shown; these tolerances are either the original equipment manufacturers (OEM's) warranted specifications or the client's requested specifications. Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions. This certificate may not be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

Notes:

One or more test points are close to the tolerance limit, however no adjustment was made due to the impact on other test points.

 Date Received:
 March 13, 2022

 Certificate - Page 1 of 8
 Customer Number:
 1-669595-000

Service Level: N9

Reprinted on April 01, 2022

OPS-F20-014R10 09/29/21 FP001R9 4/9/2021



Customer: PCTEST ENGINEERING LAB

9017 MENDENHALL CT

SUITE G

COLUMBIA, MD 21045

PO Number: 220121.KW45



Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

As Found/As Left Data

| | | | | | | 0 | Cal Process | Measurement | | |
|----------------------|-----------|------------|-----------|------------|--------------------|--------|-------------------------|-------------------------|-------|----------|
| Description | Setpoints | Accuracy | Low Limit | High Limit | As Found / As Left | O T | Uncertainty (k=2; ±) | Uncertainty (k=2; ±) | Units | TUR |
| Warmup | | | | | | | | | | _ |
| 30 Minute Warmup | | | Р | Р | Р | | | | | |
| Input Impedance | | | | | | | | | | |
| Channel 1 | 1.000MOhm | ±(2% Rdg) | 0.980 | 1.020 | 1.003 MOhm | | 8.1e-004 | 1.4e-003 | MOhm | 24.7 : 1 |
| Channel 2 | 1.000MOhm | ±(2% Rdg) | 0.980 | 1.020 | 1.002 MOhm | | 8.1e-004 | 1.4e-003 | MOhm | 24.7 : 1 |
| Vertical Accuracy | | | | | | | | | | |
| Channel 1: 2 mV/ Div | 8.00mVp-p | ±(4% Rdg) | 7.68 | 8.32 | 8.16 mVp-p | | 4.1e-002 | 4.3e-002 | mVp-p | 7.8 : 1 |
| | 1kHz | | | | | | | | | |
| 5 mV/ Div | 20.0mVp-p | ±(4% Rdg) | 19.2 | 20.8 | 20.6 mVp-p | | 5.5e-002 | 1.3e-001 | mVp-p | 14.5 : 1 |
| | 1kHz | | | | | | | | | |
| 10 mV/ Div | 50.0mVp-p | ±(3% Rdg) | 48.5 | 51.5 | 50.8 mVp-p | | 9.1e-002 | 1.5e-001 | mVp-p | 16.5 : 1 |
| | 1kHz | | | | | | | | | |
| 20 mV/ Div | 100mVp-p | ±(3% Rdg) | 97 | 103 | 101 mVp-p | | 1.5e-001 | 1.2e+000 | mVp-p | 20.0 : 1 |
| | 1kHz | | | | | | | | | |
| 50 mV/ Div | 200mVp-p | ±(3% Rdg) | 194 | 206 | 204 mVp-p | | 2.7e-001 | 1.2e+000 | mVp-p | 22.2 : 1 |
| | 1kHz | | | | | | | | | |
| 100 mV/ Div | 500mVp-p | ±(3% Rdg) | 485 | 515 | 508 mVp-p | | 6.3e-001 | 1.4e+000 | mVp-p | 23.8 : 1 |
| | 1kHz | | | | | | | | | |
| 200 mV/ Div | 1000mVp-p | ±(5% Rdg) | 950 | 1050 | 1020 mVp-p | | 1.2e+000 | 1.7e+000 | mVp-p | 41.7 : 1 |
| | 1kHz | | | | | | | | | |
| 500 mV/ Div | 2.00Vp-p | ±(3% Rdg) | 1.94 | 2.06 | 2.04 Vp-p | | 2.4e-003 | 1.2e-002 | Vp-p | 25.0 : 1 |
| | 1kHz | | | | | | | | | |
| 1 V/ Div | 5.00Vp-p | ±(3% Rdg) | 4.85 | 5.15 | 5.06 Vp-p | | 6.0e-003 | 1.3e-002 | Vp-p | 25.0 : 1 |
| | 1kHz | | | | | | | | | |
| 2 V/ Div | 10.0Vp-p | ±(3% Rdg) | 9.7 | 10.3 | 10.2 Vp-p | | 1.2e-002 | 1.2e-001 | Vp-p | 25.0 : 1 |
| | | | | | | | | | | |

Date Received: March 13, 2022

Service Level: N9

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Customer: PCTEST ENGINEERING LAB

9017 MENDENHALL CT

SUITE G

COLUMBIA, MD 21045

PO Number: 220121.KW45



Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

As Found/As Left Data

| | | | | | | 0 | Cal Process | Measurement | | |
|----------------------|-----------|------------|-----------|------------|--------------------|--------|-------------------------|-------------------------|-------|----------|
| Description | Setpoints | Accuracy | Low Limit | High Limit | As Found / As Left | O T | Uncertainty (k=2; ±) | Uncertainty (k=2; ±) | Units | TUR |
| Vertical Accuracy | | | | | | | | | | |
| | 1kHz | | | | | | | | | |
| 5 V/ Div | 20.0Vp-p | ±(3% Rdg) | 19.4 | 20.6 | 20.4 Vp-p | | 2.4e-002 | 1.2e-001 | Vp-p | 25.0 : 1 |
| | 1kHz | | | | | | | | | |
| 10 V/ Div | 40.0Vp-p | ±(3% Rdg) | 38.8 | 41.2 | 40.8 Vp-p | | 4.8e-002 | 1.3e-001 | Vp-p | 25.0 : 1 |
| | 1kHz | | | | | | | | | |
| Channel 2: 2 mV/ Div | 8.00mVp-p | ±(4% Rdg) | 7.68 | 8.32 | 8.16 mVp-p | | 4.0e-002 | 4.2e-002 | mVp-p | 8.0 : 1 |
| | 1kHz | | | | | | | | | |
| 5 mV/ Div | 20.0mVp-p | ±(4% Rdg) | 19.2 | 20.8 | 20.6 mVp-p | | 5.5e-002 | 1.3e-001 | mVp-p | 14.5 : 1 |
| | 1kHz | | | | | | | | | |
| 10 mV/ Div | 50.0mVp-p | ±(3% Rdg) | 48.5 | 51.5 | 50.8 mVp-p | | 9.1e-002 | 1.5e-001 | mVp-p | 16.5 : 1 |
| | 1kHz | | | | | | | | | |
| 20 mV/ Div | 100mVp-p | ±(3% Rdg) | 97 | 103 | 101 mVp-p | | 1.5e-001 | 1.2e+000 | mVp-p | 20.0 : 1 |
| | 1kHz | | | | | | | | | |
| 50 mV/ Div | 200mVp-p | ±(3% Rdg) | 194 | 206 | 204 mVp-p | | 2.7e-001 | 1.2e+000 | mVp-p | 22.2 : 1 |
| | 1kHz | | | | | | | | | |
| 100 mV/ Div | 500mVp-p | ±(3% Rdg) | 485 | 515 | 512 mVp-p | | 6.3e-001 | 1.4e+000 | mVp-p | 23.8 : 1 |
| | 1kHz | | | | | | | | | |
| 200 mV/ Div | 1000mVp-p | ±(3% Rdg) | 970 | 1030 | 1000 mVp-p | | 1.2e+000 | 1.7e+000 | mVp-p | 25.0 : 1 |
| | 1kHz | | | | | | | | | |
| 500 mV/ Div | 2.00Vp-p | ±(3% Rdg) | 1.94 | 2.06 | 2.02 Vp-p | | 2.4e-003 | 1.2e-002 | Vp-p | 25.0 : 1 |
| | 1kHz | | | | | | | | | |
| 1 V/ Div | 5.00Vp-p | ±(3% Rdg) | 4.85 | 5.15 | 5.08 Vp-p | | 6.0e-003 | 1.3e-002 | Vp-p | 25.0 : 1 |
| | 1kHz | | | | | | | | | |
| 2 V/ Div | 10.0Vp-p | ±(3% Rdg) | 9.7 | 10.3 | 10.2 Vp-p | | 1.2e-002 | 1.2e-001 | Vp-p | 25.0 : 1 |
| | 1kHz | | | | | | | | | |

TKHZ

Date Received: March 13, 2022

Service Level: N9

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Customer Number: 1-669595-000



Customer: PCTEST ENGINEERING LAB

9017 MENDENHALL CT

SUITE G

COLUMBIA, MD 21045

PO Number: 220121.KW45



Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

As Found/As Left Data

| | | | | | | 0 | Cal Process Uncertainty | Measurement Uncertainty | | |
|-------------------------|-----------|------------------------|-----------|------------|--------------------|---|----------------------------|----------------------------|-------|-----------|
| Description | Setpoints | Accuracy | Low Limit | High Limit | As Found / As Left | T | (k=2; ±) | (k=2; ±) | Units | TUR |
| Vertical Accuracy | | | | | | | | | | |
| 5 V/ Div | 20.0Vp-p | ±(3% Rdg) | 19.4 | 20.6 | 20.4 Vp-p | | 2.4e-002 | 1.2e-001 | Vp-p | 25.0 : 1 |
| | 1kHz | | | | | | | | | |
| 10 V/ Div | 40.0Vp-p | ±(3% Rdg) | 38.8 | 41.2 | 40.4 Vp-p | | 4.8e-002 | 1.3e-001 | Vp-p | 25.0 : 1 |
| | 1kHz | | | | | | | | | |
| DC Measurement Accuracy | | | | | | | | | | |
| 10mV/Div | 30.0mV | ±(3% Rdg + 2 mV) | 27.1 | 32.9 | 30.4 mV | | 6.7e-002 | 1.4e-001 | mV | 43.3 : 1 |
| 100mV/Div | 300mV | ±(3% Rdg + 11 mV) | 280 | 320 | 302 mV | | 3.9e-001 | 1.3e+000 | mV | 51.3 : 1 |
| 1V/Div | 3.00V | ±(3% Rdg + 0.101 V) | 2.81 | 3.19 | 3.03 V | | 3.6e-003 | 1.3e-002 | V | 52.8 : 1 |
| 10V/Div | 30.0V | ±(3% Rdg + 1 V) | 28.1 | 31.9 | 30.6 V | | 3.6e-002 | 1.3e-001 | V | 52.8 : 1 |
| Time Mark (Frequency) | | | | | | | | | | |
| Time Mark (Frequency) | 100µsec | ±(50 PPM Rdg + 1 LSD) | 9.99 | 10.01 | 10.00 kHz | | 2.2e-005 | 1.2e-002 | kHz | 100.0 : 1 |
| | 1µsec | ±(50 PPM Rdg + 1 LSD) | 0.999 | 1.001 | 1.000 MHz | | 2.2e-006 | 1.2e-003 | MHz | 100.0 : 1 |
| | 20nsec | ±(50 PPM Rdg + 1 LSD) | 49.99 | 50.01 | 50.00 MHz | | 1.1e-005 | 1.2e-002 | MHz | 100.0 : 1 |

Date Received: March 13, 2022

Service Level: N9

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SUITE G

COLUMBIA, MD 21045

PO Number: 220121.KW45



Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

As Found/As Left Data

| Description | Setpoints | Accuracy | Low Limit | High Limit | As Found / As Left | 0 0 T | Cal Process Uncertainty (k=2; ±) | Measurement Uncertainty (k=2; ±) | Units | TUR |
|--------------------------------------|------------|---------------|-----------|------------|--------------------|-------------|--|--|-------|-----|
| Vertical Bandwidth | | | | | | | | | | |
| Ch. 1: 100mV/Div - Reference | 600.0mVp-p | | | | 608.0 mVp-p | | 7.8e-005 | 1.2e-001 | mVp-p | |
| | 50kHz | | | | | | | | | |
| Ch. 1: 100mV/Div - Full Bandwidth | 600.0mVp-p | | | | 461.0 mVp-p | | 7.8e-005 | 1.2e-001 | mVp-p | |
| | 50MHz | | | | | | | | | |
| Ch. 1: Bandwidth Error | | ≥ (-3.00 dB) | -3.00 | | -2.40 dB | | 3.3e-002 | 3.5e-002 | dB | |
| Ch. 2: 100mV/Div - Reference | 600.0mVp-p | | | | 608.0 mVp-p | | 7.8e-005 | 1.2e-001 | mVp-p | |
| | 50kHz | | | | | | | | | |
| Ch. 2: 100mV/Div - Full Bandwidth | 600.0mVp-p | | | | 458.0 mVp-p | | 7.8e-005 | 1.2e-001 | mVp-p | |
| | 50MHz | | | | | | | | | |
| Ch. 2: Bandwidth Error | | ≥ (-3.00 dB) | -3.00 | | -2.46 dB | | 3.3e-002 | 3.5e-002 | dB | |

Field not applicable.

Date Received: March 13, 2022

Service Level: N9

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1-669595-000

Customer Number:



Customer: PCTEST ENGINEERING LAB

9017 MENDENHALL CT

SUITE G

COLUMBIA, MD 21045

PO Number: 220121.KW45

Service Level: N9



Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

Traceable Standards

| Asset | Manufacturer | Model Number | Description | Cal Date | Due Date | Traceability Number | Use |
|---------|-------------------|--------------|---|-----------|-----------|---------------------|-------|
| 55XX012 | Fluke Corporation | 5522A-SC1100 | Multifunction Calibrator w/Scope Option | 30-Jun-21 | 30-Jun-22 | 5-&55XX012-1-1 | AF/AL |

The use of the standard is defined as: AF - used for as-found readings, AL - used for as-left readings.

Environmental Data

| Temperature | Relative Humidity | Temp / RH Asset | Lab Area | Lab Description |
|------------------|-------------------|-----------------|----------|-----------------------|
| 70.00°F /21.11°C | 40.00% | MANUAL | X | Onsite / Non-Workable |

Decision Rule

When compliance statements are present, they are reported without factoring in the effects of uncertainty and comply with the guidelines as follows: The acceptance zone is defined as: less than or equal to the high limit, and/or greater than or equal to the low limit. The rejection zones are defined as greater than the high limit and/or less than the low limit. Single measurement results in the acceptance zone are identified as in-tolerance. Single measurement results in the rejection zone are identified as out-of-tolerance (OOT). When all measurement results are in the acceptance zone for repeated measurements, for the same characteristic, the test is identified as in-tolerance. For repeated characteristic measurements, a single measurement result in the rejection zone, will cause the test to be identified as out-of-tolerance (OOT). Data rejection for cause, (outliers) is permitted after the "Determining and Verifying Out Of Tolerance (OOT) and/or Op Fail Readings" procedure outlined in this document has been completed and the anomalous reading cannot be repeated, and the anomalous reading does not represent the system under test. Statements of conformity are binary.

Date Received: March 13, 2022 Certificate - Page 6 of 8 Customer Number: 1-669595-000

Reprinted on April 01, 2022 OPS-F20-014R10 09/29/21 FP001R9 4/9/2021



Customer: PCTEST ENGINEERING LAB

9017 MENDENHALL CT

SUITE G

COLUMBIA, MD 21045

PO Number: 220121.KW45



Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

| Legend | | | | | |
|-------------------------------|--|--|--|--|--|
| Topic | Description | | | | |
| Accuracy | UUT specification that establishes expected tolerances and a time limit (calibration interval) over which the instrument is expected to hold these tolerances | | | | |
| As Found | Initial measurement results | | | | |
| As Left | Measurement results after adjustment and/or repair | | | | |
| Blank Data Field | Test is not applicable for the UUT | | | | |
| Cal Process Uncertainty (CPU) | The uncertainty of calibration process for the reported measurement result | | | | |
| Calibration Date | Indicates the date that the calibration was completed | | | | |
| Cover Factor (k) | A measure of uncertainty that defines an interval about the measurement result | | | | |
| Due Date | Indicates the end of the calibration cycle as requested by the customer | | | | |
| Issue Date | Indicates the date that the calibration has passed the Data Review Process and was signed by an authorized signatory or the date that a revision to the original certificate has been issued | | | | |
| Low / High Limits | Establishes UUT acceptable performance limits for the test measurement | | | | |
| Measurement Uncertainty | The dispersion of the values attributed to a measured quantity | | | | |
| OOA | Out of Acceptance (#) | | | | |
| OOT | Out of Tolerance (*) | | | | |
| Setpoints | Measurement target values | | | | |
| Traceability | Unbroken chain of comparisons relating an instrument's measurements to a known standard(s) | | | | |
| Traceability Number | Unique identifier(s) used to document traceability of calibration standards | | | | |
| TUR | Test Uncertainty Ratio, ratio of the tolerance or specification of the test measurement in relation to the uncertainty in measurement results | | | | |
| UUT | Unit Under test | | | | |

Date Received: March 13, 2022

Service Level: N9

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Customer Number: 1-669595-000

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Customer: PCTEST ENGINEERING LAB

9017 MENDENHALL CT

SUITE G

COLUMBIA, MD 21045

PO Number: 220121.KW45



Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

Calibrated At: 9017 MENDENHALL CT SUITE G COLUMBIA, MD 21045

Facility Responsible: 100 Dobbs Lane Cherry Hill, NJ 08034 800-828-1470

Unit Barcode:

Date Received: March 13, 2022

Service Level: N9

Calibrated By:

Electronically Signed By: Pat Marker

Pat Marker Calibration Technician Mar 22, 2022

20:00:20 -04:00

Electronically Signed By:

Reviewed By:

Jon Martz for

Richard Roman Lab Manager

Mar 22, 2022 22:42:21 -04:00

Customer Number: 1-669595-000

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