



FCC SAR Test Report

Report No. : SA181221C17
Applicant : Fossil Group, Inc.
Address : 901 S. Central Expressway, Richardson, TX 75080, USA
Product : Smart Watch
FCC ID : UK7-DW9
Brand : MISFIT
Model No. : DW9B1
Standards : FCC 47 CFR Part 2 (2.1093), IEEE C95.1:1992, IEEE Std 1528:2013
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CERTIFICATION: The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch – Lin Kou Laboratories**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

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Release Control Record

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1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest SAR-1g Face Tested at 10 mm (W/kg)	Highest SAR-10g Extremity Tested at 0 mm (W/kg)
DTS	2.4G WLAN	0.10	0.25
DSS	Bluetooth	0.03	0.08

Note:

1. The SAR criteria (**Head & Body: SAR-1g 1.6 W/kg, and Extremity: SAR-10g 4.0 W/kg**) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.

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2. Description of Equipment Under Test

EUT Type	Smart Watch
FCC ID	UK7-DW9
Model Name	DW9B1
Tx Frequency Bands (Unit: MHz)	WLAN : 2412 ~ 2472 Bluetooth : 2402 ~ 2480
Uplink Modulations	802.11b : DSSS 802.11g/n : OFDM Bluetooth : GFSK, π/4-DQPSK, 8-DPSK
Maximum Tune-up Conducted Power (Unit: dBm)	Please refer to section 4.6.1 of this report
Antenna Type	Loop Antenna
EUT Stage	Identical Prototype

Note:

1. The EUT accessories list refer to user manual
2. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

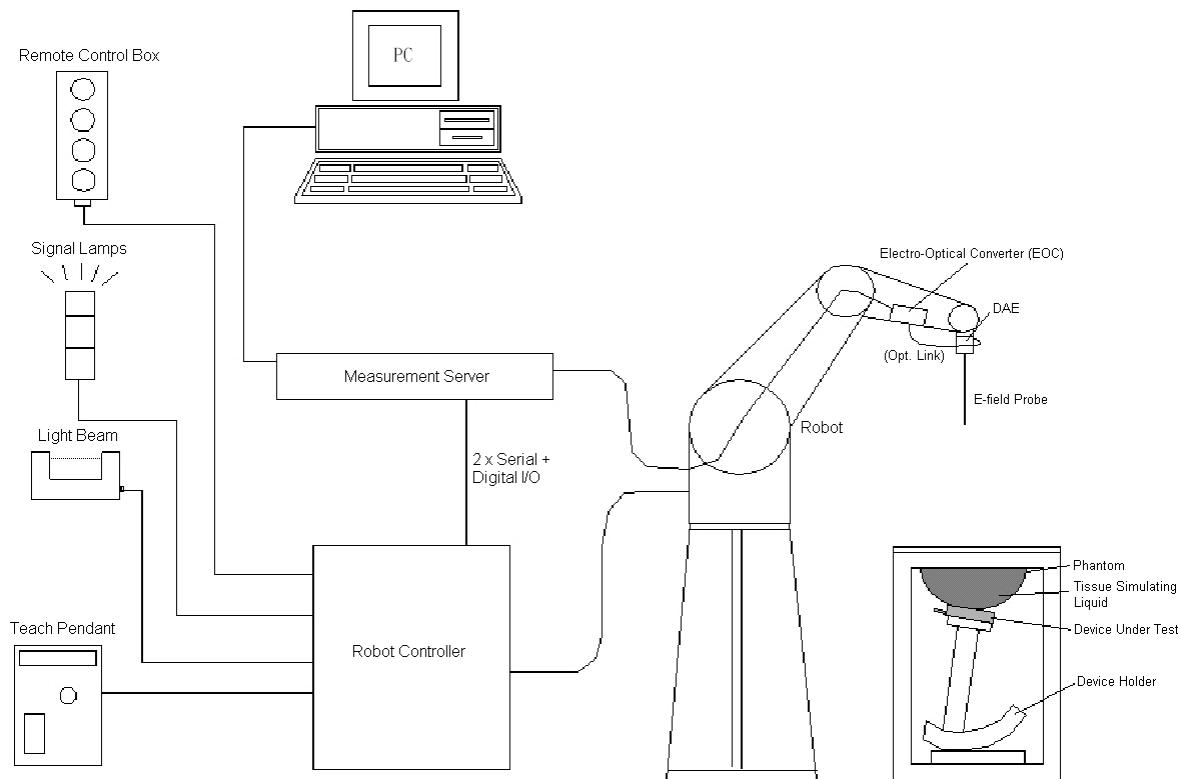
SAR measurement can be related to the electrical field in the tissue by

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SPEAG DASY52 System

DASY52 system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY52 software defined. The DASY52 software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC.


Fig-3.1 SPEAG DASY52 System Setup

3.2.1 Robot

The DASY52 system uses the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version of CS8c from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability ± 0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)


Fig-3.2 SPEAG DASY52 System

3.2.2 Probes

The SAR measurement is conducted with the dosimetric probe. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

Model	EX3DV4	
Construction	Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).	
Frequency	10 MHz to 6 GHz Linearity: ± 0.2 dB	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

Model	ES3DV3	
Construction	Symmetrical design with triangular core. Interleaved sensors. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).	
Frequency	10 MHz to 4 GHz Linearity: ± 0.2 dB	
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.3 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	5 μ W/g to 100 mW/g Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm	

Model	ET3DV6	
Construction	Symmetrical design with triangular core. Built-in optical fiber for surface detection system. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz to 2.3 GHz; Linearity: ± 0.2 dB	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.4 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g to 100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (Tip: 16 mm) Tip diameter: 6.8 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.7 mm	

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3.2.3 Data Acquisition Electronics (DAE)

Model	DAE3, DAE4	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV)	
Input Offset Voltage	< 5µV (with auto zero)	
Input Bias Current	< 50 fA	
Dimensions	60 x 60 x 68 mm	

3.2.4 Phantoms

Model	Twin SAM	
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	approx. 25 liters	

Model	ELI	
Construction	Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	approx. 30 liters	

3.2.5 Device Holder

Model	Mounting Device	
Construction	In combination with the Twin SAM Phantom or ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Rotation point is the ear opening point. Transmitter devices can be easily and accurately positioned according to IEC, IEEE, FCC or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat).	
Material	POM	

Model	Laptop Extensions Kit	
Construction	Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner.	
Material	POM, Acrylic glass, Foam	

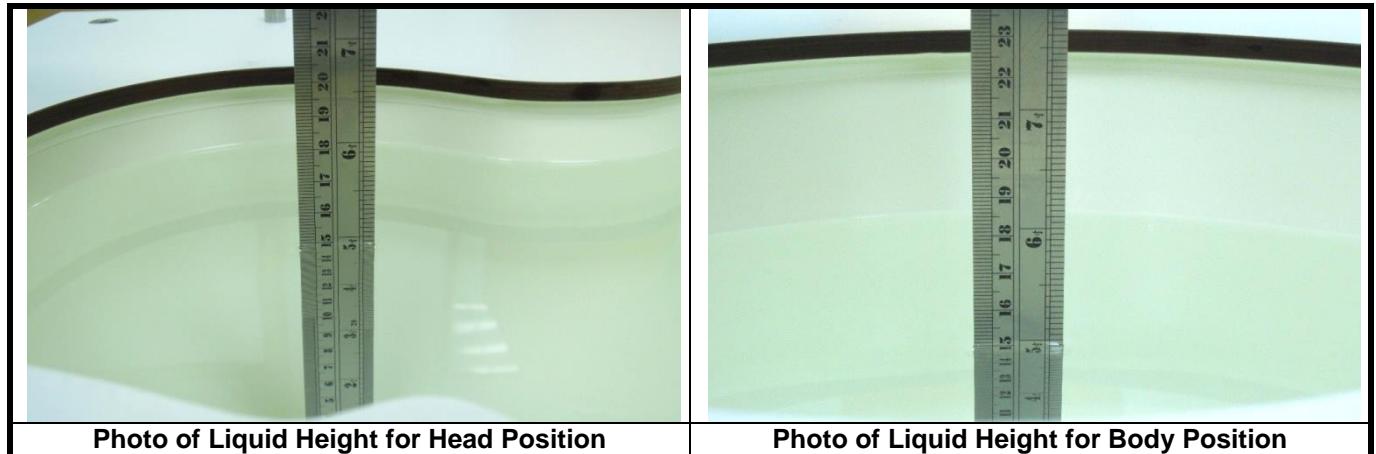
3.2.6 System Validation Dipoles

Model	D-Serial	
Construction	Symmetrical dipole with 1/4 balun. Enables measurement of feed point impedance with NWA. Matched for use near flat phantoms filled with tissue simulating solutions.	
Frequency	750 MHz to 5800 MHz	
Return Loss	> 20 dB	
Power Capability	> 100 W (f < 1GHz), > 40 W (f > 1GHz)	

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3.2.7 Tissue Simulating Liquids

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in Table-3.1.



The dielectric properties of the head tissue simulating liquids are defined in IEEE 1528, and KDB 865664 D01 Appendix A. For the body tissue simulating liquids, the dielectric properties are defined in KDB 865664 D01 Appendix A. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using a dielectric assessment kit and a network analyzer.



Table-3.1 Targets of Tissue Simulating Liquid

Frequency (MHz)	Target Permittivity	Range of ±5%	Target Conductivity	Range of ±5%
For Head				
750	41.9	39.8 ~ 44.0	0.89	0.85 ~ 0.93
835	41.5	39.4 ~ 43.6	0.90	0.86 ~ 0.95
900	41.5	39.4 ~ 43.6	0.97	0.92 ~ 1.02
1450	40.5	38.5 ~ 42.5	1.20	1.14 ~ 1.26
1640	40.3	38.3 ~ 42.3	1.29	1.23 ~ 1.35
1750	40.1	38.1 ~ 42.1	1.37	1.30 ~ 1.44
1800	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
1900	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2000	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2300	39.5	37.5 ~ 41.5	1.67	1.59 ~ 1.75
2450	39.2	37.2 ~ 41.2	1.80	1.71 ~ 1.89
2600	39.0	37.1 ~ 41.0	1.96	1.86 ~ 2.06
3500	37.9	36.0 ~ 39.8	2.91	2.76 ~ 3.06
5200	36.0	34.2 ~ 37.8	4.66	4.43 ~ 4.89
5300	35.9	34.1 ~ 37.7	4.76	4.52 ~ 5.00
5500	35.6	33.8 ~ 37.4	4.96	4.71 ~ 5.21
5600	35.5	33.7 ~ 37.3	5.07	4.82 ~ 5.32
5800	35.3	33.5 ~ 37.1	5.27	5.01 ~ 5.53
For Body				
750	55.5	52.7 ~ 58.3	0.96	0.91 ~ 1.01
835	55.2	52.4 ~ 58.0	0.97	0.92 ~ 1.02
900	55.0	52.3 ~ 57.8	1.05	1.00 ~ 1.10
1450	54.0	51.3 ~ 56.7	1.30	1.24 ~ 1.37
1640	53.8	51.1 ~ 56.5	1.40	1.33 ~ 1.47
1750	53.4	50.7 ~ 56.1	1.49	1.42 ~ 1.56
1800	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
1900	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
2000	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
2300	52.9	50.3 ~ 55.5	1.81	1.72 ~ 1.90
2450	52.7	50.1 ~ 55.3	1.95	1.85 ~ 2.05
2600	52.5	49.9 ~ 55.1	2.16	2.05 ~ 2.27
3500	51.3	48.7 ~ 53.9	3.31	3.14 ~ 3.48
5200	49.0	46.6 ~ 51.5	5.30	5.04 ~ 5.57
5300	48.9	46.5 ~ 51.3	5.42	5.15 ~ 5.69
5500	48.6	46.2 ~ 51.0	5.65	5.37 ~ 5.93
5600	48.5	46.1 ~ 50.9	5.77	5.48 ~ 6.06
5800	48.2	45.8 ~ 50.6	6.00	5.70 ~ 6.30



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The following table gives the recipes for tissue simulating liquids.

Table-3.2 Recipes of Tissue Simulating Liquid

Tissue Type	Bactericide	DGBE	HEC	NaCl	Sucrose	Triton X-100	Water	Diethylene Glycol Mono-hexylether
H750	0.2	-	0.2	1.5	56.0	-	42.1	-
H835	0.2	-	0.2	1.5	57.0	-	41.1	-
H900	0.2	-	0.2	1.4	58.0	-	40.2	-
H1450	-	43.3	-	0.6	-	-	56.1	-
H1640	-	45.8	-	0.5	-	-	53.7	-
H1750	-	47.0	-	0.4	-	-	52.6	-
H1800	-	44.5	-	0.3	-	-	55.2	-
H1900	-	44.5	-	0.2	-	-	55.3	-
H2000	-	44.5	-	0.1	-	-	55.4	-
H2300	-	44.9	-	0.1	-	-	55.0	-
H2450	-	45.0	-	0.1	-	-	54.9	-
H2600	-	45.1	-	0.1	-	-	54.8	-
H3500	-	8.0	-	0.2	-	20.0	71.8	-
H5G	-	-	-	-	-	17.2	65.5	17.3
B750	0.2	-	0.2	0.8	48.8	-	50.0	-
B835	0.2	-	0.2	0.9	48.5	-	50.2	-
B900	0.2	-	0.2	0.9	48.2	-	50.5	-
B1450	-	34.0	-	0.3	-	-	65.7	-
B1640	-	32.5	-	0.3	-	-	67.2	-
B1750	-	31.0	-	0.2	-	-	68.8	-
B1800	-	29.5	-	0.4	-	-	70.1	-
B1900	-	29.5	-	0.3	-	-	70.2	-
B2000	-	30.0	-	0.2	-	-	69.8	-
B2300	-	31.0	-	0.1	-	-	68.9	-
B2450	-	31.4	-	0.1	-	-	68.5	-
B2600	-	31.8	-	0.1	-	-	68.1	-
B3500	-	28.8	-	0.1	-	-	71.1	-
B5G	-	-	-	-	-	10.7	78.6	10.7

3.3 SAR System Verification

The system check verifies that the system operates within its specifications. It is performed daily or before every SAR measurement. The system check uses normal SAR measurements in the flat section of the phantom with a matched dipole at a specified distance. The system verification setup is shown as below.

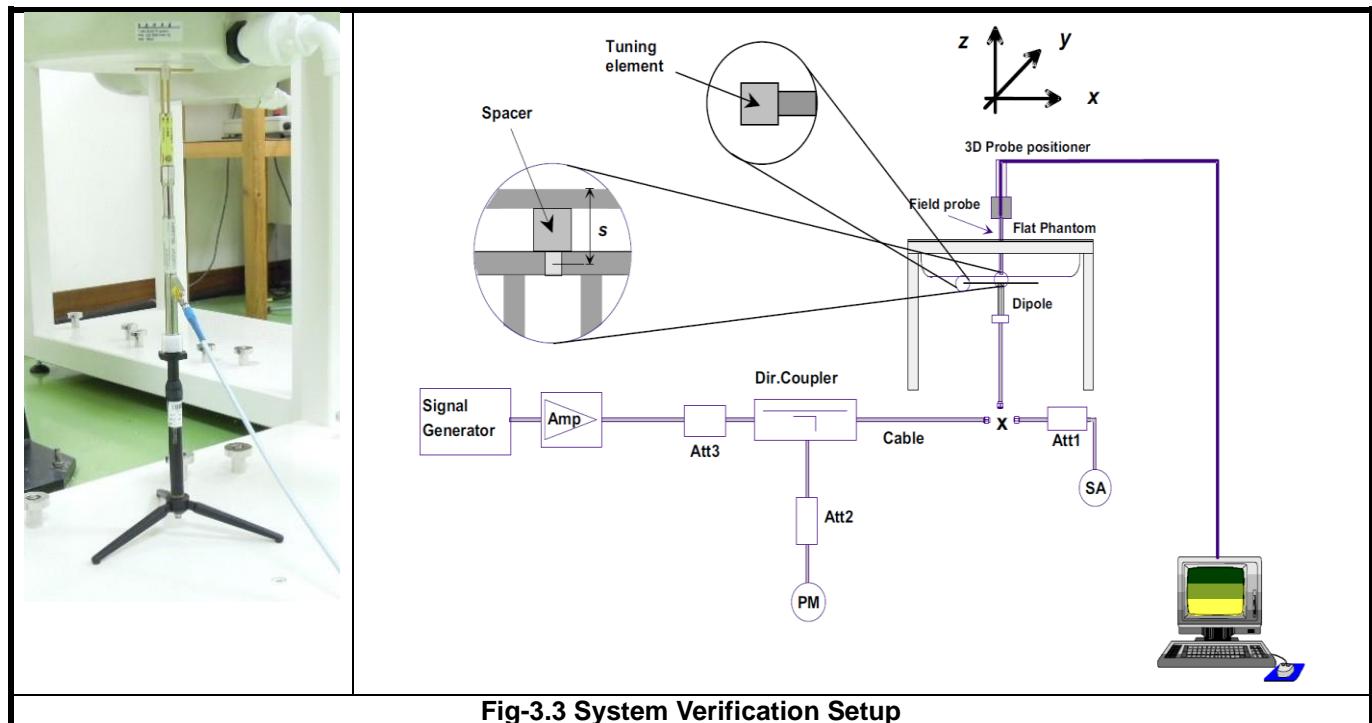


Fig-3.3 System Verification Setup

The validation dipole is placed beneath the flat phantom with the specific spacer in place. The distance spacer is touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The spectrum analyzer measures the forward power at the location of the system check dipole connector. The signal generator is adjusted for the desired forward power (250 mW is used for 700 MHz to 3 GHz, 100 mW is used for 3.5 GHz to 6 GHz) at the dipole connector and the power meter is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter.

After system check testing, the SAR result will be normalized to 1W forward input power and compared with the reference SAR value derived from validation dipole certificate report. The deviation of system check should be within 10 %.

3.4 SAR Measurement Procedure

According to the SAR test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

The SAR measurement procedures for each of test conditions are as follows:

- (a) Make EUT to transmit maximum output power
- (b) Measure conducted output power through RF cable
- (c) Place the EUT in the specific position of phantom
- (d) Perform SAR testing steps on the DASY system
- (e) Record the SAR value

3.4.1 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. According to KDB 865664 D01, the resolution for Area and Zoom scan is specified in the table below.

Items	<= 2 GHz	2-3 GHz	3-4 GHz	4-5 GHz	5-6 GHz
Area Scan ($\Delta x, \Delta y$)	<= 15 mm	<= 12 mm	<= 12 mm	<= 10 mm	<= 10 mm
Zoom Scan ($\Delta x, \Delta y$)	<= 8 mm	<= 5 mm	<= 5 mm	<= 4 mm	<= 4 mm
Zoom Scan (Δz)	<= 5 mm	<= 5 mm	<= 4 mm	<= 3 mm	<= 2 mm
Zoom Scan Volume	>= 30 mm	>= 30 mm	>= 28 mm	>= 25 mm	>= 22 mm

Note:

When zoom scan is required and report SAR is $\leq 1.4 \text{ W/kg}$, the zoom scan resolution of $\Delta x / \Delta y$ (2-3GHz: $\leq 8 \text{ mm}$, 3-4GHz: $\leq 7 \text{ mm}$, 4-6GHz: $\leq 5 \text{ mm}$) may be applied.

3.4.2 Volume Scan Procedure

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

3.4.3 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.

3.4.4 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

3.4.5 SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

4. SAR Measurement Evaluation

4.1 EUT Configuration and Setting

<Considerations Related to WLAN for Setup and Testing>

In general, various vendor specific external test software and chipset based internal test modes are typically used for SAR measurement. These chipset based test mode utilities are generally hardware and manufacturer dependent, and often include substantial flexibility to reconfigure or reprogram a device. A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement. The test frequencies established using test mode must correspond to the actual channel frequencies. When 802.11/BT frame gaps are accounted for in the transmission, a maximum transmission duty factor of 99 - 100% is typically achievable in most test mode configurations. A minimum transmission duty factor of 99% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. In addition, a periodic transmission duty factor is required for current generation SAR systems to measure SAR correctly. The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

According to KDB 248227 D01, this device has installed WLAN/BT engineering testing software which can provide continuous transmitting RF signal. During WLAN SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

Initial Test Configuration

An initial test configuration is determined for OFDM transmission modes in 2.4 GHz and 5 GHz bands according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.

Subsequent Test Configuration

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. When the highest reported SAR for the initial test configuration according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2 \text{ W/kg}$, SAR is not required for that subsequent test configuration.

SAR Test Configuration and Channel Selection

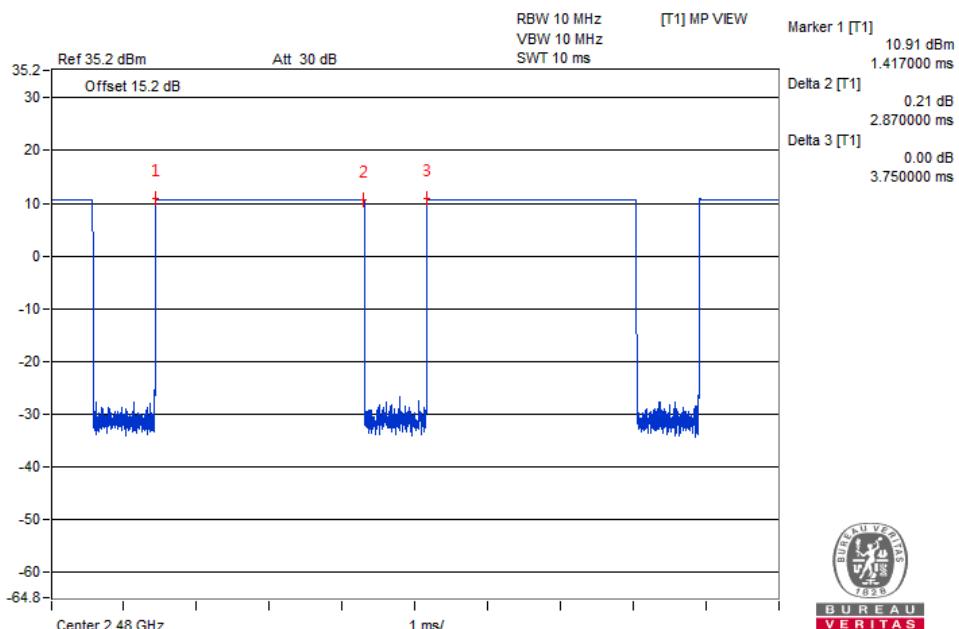
When multiple channel bandwidth configurations in a frequency band have the same specified maximum output power, the initial test configuration is using largest channel bandwidth, lowest order modulation, lowest data rate, and lowest order 802.11 mode (i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n). After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following.

- 1) The channel closest to mid-band frequency is selected for SAR measurement.
- 2) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

<Considerations Related to Bluetooth for Setup and Testing>

This device has installed Bluetooth engineering testing software which can provide continuous transmitting RF signal. During Bluetooth SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

The Bluetooth call box has been used during SAR measurement and the EUT was set to DH5 mode at the maximum output power. Its duty factor was calculated as below and the measured SAR for Bluetooth would be scaled to the 100% transmission duty factor to determine compliance.



Time-domain plot for Bluetooth transmission signal

The duty factor of Bluetooth signal has been calculated as following.

$$\text{Duty Factor} = \text{Pulse Width} / \text{Total Period} = 2.87 / 3.75 = 76.53\%$$

4.2 EUT Testing Position

4.2.1 Extremity Exposure Conditions

Transmitters that are built-in within a wrist watch or similar wrist-worn devices typically operate in speaker mode for voice communication, with the device worn on the wrist and positioned next to the mouth. Next to the mouth exposure requires 1-g SAR, and the wrist-worn condition requires 10-g extremity SAR. The 10-g extremity and 1-g SAR test exclusions may be applied to the wrist and face exposure conditions. When SAR evaluation is required, next to the mouth use is evaluated with the front of the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium. The wrist bands should be strapped together to represent normal use conditions. SAR for wrist exposure is evaluated with the back of the devices positioned in direct contact against a flat phantom fill with body tissue-equivalent medium. The wrist bands should be unstrapped and touching the phantom. The space introduced by the watch or wrist bands and the phantom must be representative of actual use conditions.

4.2.2 Face Exposure Conditions

Transmitters that are built-in within a wrist watch or similar wrist-worn devices typically operate in speaker mode for voice communication, with the device worn on the wrist and positioned next to the mouth. Next to the mouth exposure requires face SAR. When face SAR evaluation is required, next to the mouth use is evaluated with the front of the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium. The wrist bands should be strapped together to represent normal use conditions.



Fig-4.1 Illustration for Smart watch Setup

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4.3 Tissue Verification

The measuring results for tissue simulating liquid are shown as below.

Test Date	Tissue Type	Frequency (MHz)	Liquid Temp. (°C)	Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Target Conductivity (σ)	Target Permittivity (ϵ_r)	Conductivity Deviation (%)	Permittivity Deviation (%)
Jan. 02, 2019	Head	2450	23.4	1.867	37.958	1.8	39.2	3.72	-3.17
Jan. 02, 2019	Body	2450	23.4	2.024	50.609	1.95	52.7	3.79	-3.97

Note:

The dielectric properties of the tissue simulating liquid must be measured within 24 hours before the SAR testing and within $\pm 5\%$ of the target values. Liquid temperature during the SAR testing must be within $\pm 2^{\circ}\text{C}$.

4.4 System Validation

The SAR measurement system was validated according to procedures in KDB 865664 D01. The validation status in tabulated summary is as below.

Test Date	Probe S/N	Calibration Point		Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Validation for CW			Validation for Modulation		
						Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR
Jan. 02, 2019	7472	Head	2450	1.867	37.958	Pass	Pass	Pass	OFDM	N/A	Pass
Jan. 02, 2019	7472	Body	2450	2.024	50.609	Pass	Pass	Pass	OFDM	N/A	Pass

4.5 System Verification

The measuring result for system verification is tabulated as below.

Test Date	Mode	Frequency (MHz)	1W Target SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Normalized to 1W SAR-1g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Jan. 02, 2019	Head	2450	51.50	13.1	52.40	1.75	737	7472	1431

Test Date	Mode	Frequency (MHz)	1W Target SAR-10g (W/kg)	Measured SAR-10g (W/kg)	Normalized to 1W SAR-10g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Dec. 12, 2018	Body	2450	23.80	6.18	24.72	3.87	737	7472	1431

Note:

Comparing to the reference SAR value provided by SPEAG, the validation data should be within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots can be referred to Appendix A of this report.



4.6 Maximum Output Power

4.6.1 Maximum Target Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

Mode	2.4G WLAN
802.11b	16.0
802.11g	11.0
802.11n HT20	11.0

Mode	2.4G Bluetooth
Bluetooth DH	11.0
Bluetooth LE	3.0

4.6.2 Measured Conducted Power Result

The measuring conducted average power (Unit: dBm) is shown as below.

<WLAN 2.4G>

Mode	Channel	Frequency (MHz)	Average Power
802.11b	1	2412	15.78
	6	2437	15.60
	11	2462	15.58
	12	2467	15.67
	13	2472	15.57

<Bluetooth>

Mode	Channel	Frequency (MHz)	Average Power
Bluetooth BDR/GFSK	0	2402	10.51
	39	2441	10.46
	78	2480	10.32
Bluetooth EDR/DPSK	0	2402	8.29
	39	2441	8.17
	78	2480	8.03
Bluetooth 2EDR/8DPSK	0	2402	8.33
	39	2441	8.19
	78	2480	8.07
Bluetooth LE	0	2402	1.82
	19	2440	1.68
	39	2480	1.42



4.7 SAR Testing Results

4.7.1 SAR Test Reduction Considerations

<KDB 447498 D01, General RF Exposure Guidance>

Testing of other required channels within the operating mode of a frequency band is not required when the reported SAR for the mid-band or highest output power channel is:

- (1) $\leq 0.8 \text{ W/kg}$ or 2.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\leq 100 \text{ MHz}$
- (2) $\leq 0.6 \text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- (3) $\leq 0.4 \text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200 \text{ MHz}$

<KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters>

- (1) For handsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is $\leq 0.4 \text{ W/kg}$, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is $\leq 0.8 \text{ W/kg}$ or all test positions are measured.
- (2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is $\leq 0.8 \text{ W/kg}$, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is $> 1.2 \text{ W/kg}$, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is $\leq 1.2 \text{ W/kg}$.

4.7.2 SAR Results for Face Exposure Condition (Test Separation Distance is 10 mm)

Plot No.	Band	Mode	Test Position	Ch.	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
01	WLAN 2.4G	802.11b	Front Face	1	97.45	1.03	16.0	15.78	1.05	-0.09	0.071	0.08
	WLAN 2.4G	802.11b	Front Face	6	97.45	1.03	16.0	15.60	1.10	0.08	0.077	0.09
	WLAN 2.4G	802.11b	Front Face	11	97.45	1.03	16.0	15.58	1.10	-0.02	0.091	0.10
	WLAN 2.4G	802.11b	Front Face	12	97.45	1.03	16.0	15.67	1.08	-0.11	0.074	0.08
	WLAN 2.4G	802.11b	Front Face	13	97.45	1.03	16.0	15.57	1.10	0.03	0.076	0.09
02	BT	BDR	Front Face	0	76.53	1.31	11.0	10.51	1.12	-0.06	0.021	0.03
	BT	BDR	Front Face	39	76.53	1.31	11.0	10.46	1.13	-0.09	0.02	0.03
	BT	BDR	Front Face	78	76.53	1.31	11.0	10.32	1.17	0.01	0.018	0.03

4.7.3 SAR Results for Extremity Exposure Condition (Test Separation Distance is 0 mm)

Plot No.	Band	Mode	Test Position	Ch.	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
03	WLAN 2.4G	802.11b	Rear Face	1	97.45	1.03	16.0	15.78	1.05	-0.08	0.174	0.19
	WLAN 2.4G	802.11b	Rear Face	6	97.45	1.03	16.0	15.60	1.10	0.03	0.201	0.23
	WLAN 2.4G	802.11b	Rear Face	11	97.45	1.03	16.0	15.58	1.10	0.03	0.222	0.25
	WLAN 2.4G	802.11b	Rear Face	12	97.45	1.03	16.0	15.67	1.08	-0.09	0.187	0.21
	WLAN 2.4G	802.11b	Rear Face	13	97.45	1.03	16.0	15.57	1.10	0.11	0.204	0.23
04	BT	BDR	Rear Face	0	76.53	1.31	11.0	10.51	1.12	0.08	0.053	0.08
	BT	BDR	Rear Face	39	76.53	1.31	11.0	10.46	1.13	-0.08	0.051	0.08
	BT	BDR	Rear Face	78	76.53	1.31	11.0	10.32	1.17	0	0.048	0.07

4.7.4 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

Since all the measured SAR are less than 0.8 W/kg, the repeated measurement is not required.

4.7.5 Simultaneous Multi-band Transmission Evaluation

There is no simultaneous transmission configuration in this device.

Test Engineer : Kevin Yao



5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D2450V2	737	Aug. 24, 2018	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7472	Aug. 29, 2018	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1431	Mar. 16, 2018	1 Year
Spectrum Analyzer	R&S	FSL6	102006	Mar. 23, 2018	1 Year
ENA Series Network Analyzer	Agilent	E5071C	MY46214281	Jun. 08, 2018	1 Year
MXG Analog Signal Generator	Agilent	N5181A	MY50143868	Jul. 03, 2018	1 Year
Vector Signal Generator	Anritsu	MG3710A	6201599977	Mar. 16, 2018	1 Year
Power Meter	Anritsu	ML2495A	1218009	Jul. 03, 2018	1 Year
Power Sensor	Anritsu	MA2411B	1207252	Jul. 03, 2018	1 Year
Thermometer	YFE	YF-160A	130504591	Mar. 23, 2018	1 Year



6. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Taiwan HwaYa EMC/RF/Safety Lab:

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The road map of all our labs can be found in our web site also.

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Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

System Check_H2450_190102

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0102 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.867$ S/m; $\epsilon_r = 37.958$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7472; ConvF(7.71, 7.71, 7.71); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: Twin SAM Phantom_1654; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 21.7 W/kg

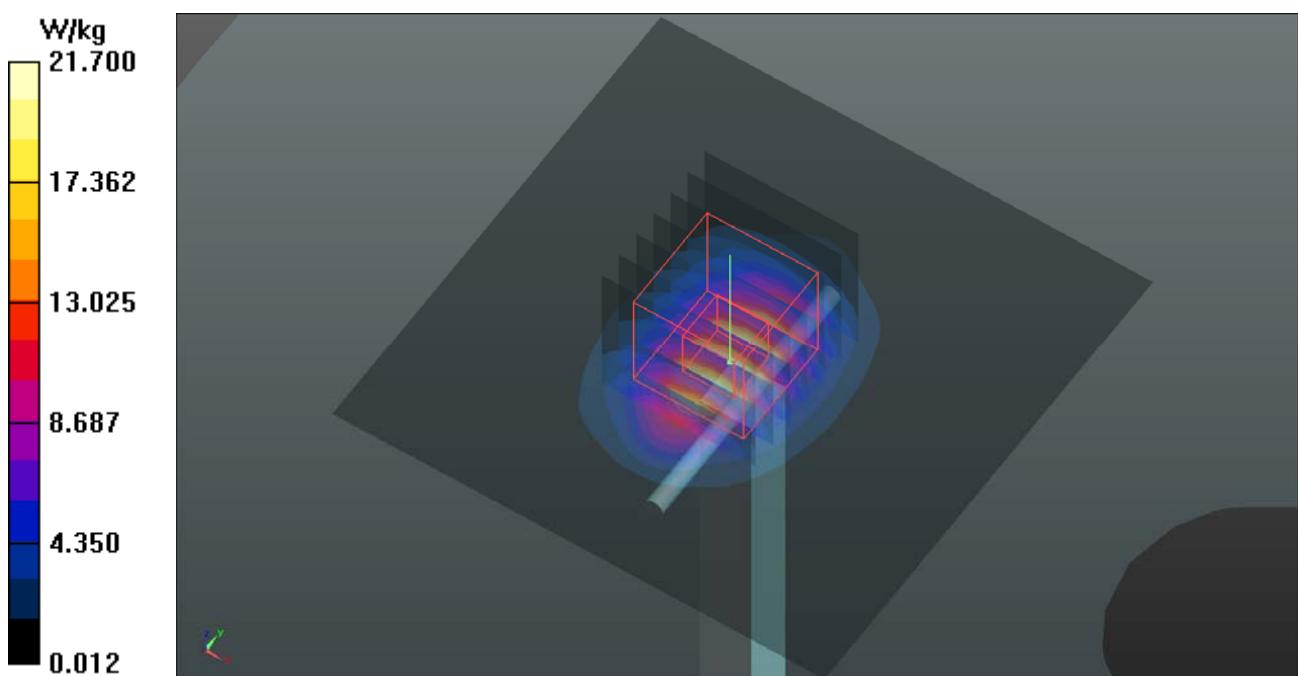
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 110.2 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 26.6 W/kg

SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.1 W/kg

Maximum value of SAR (measured) = 21.8 W/kg



System Check_B2450_190102

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: B19T27N1_0102 Medium parameters used: $f = 2450$ MHz; $\sigma = 2.024$ S/m; $\epsilon_r = 50.609$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7472; ConvF(7.84, 7.84, 7.84); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: Twin SAM Phantom_1822; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 23.1 W/kg

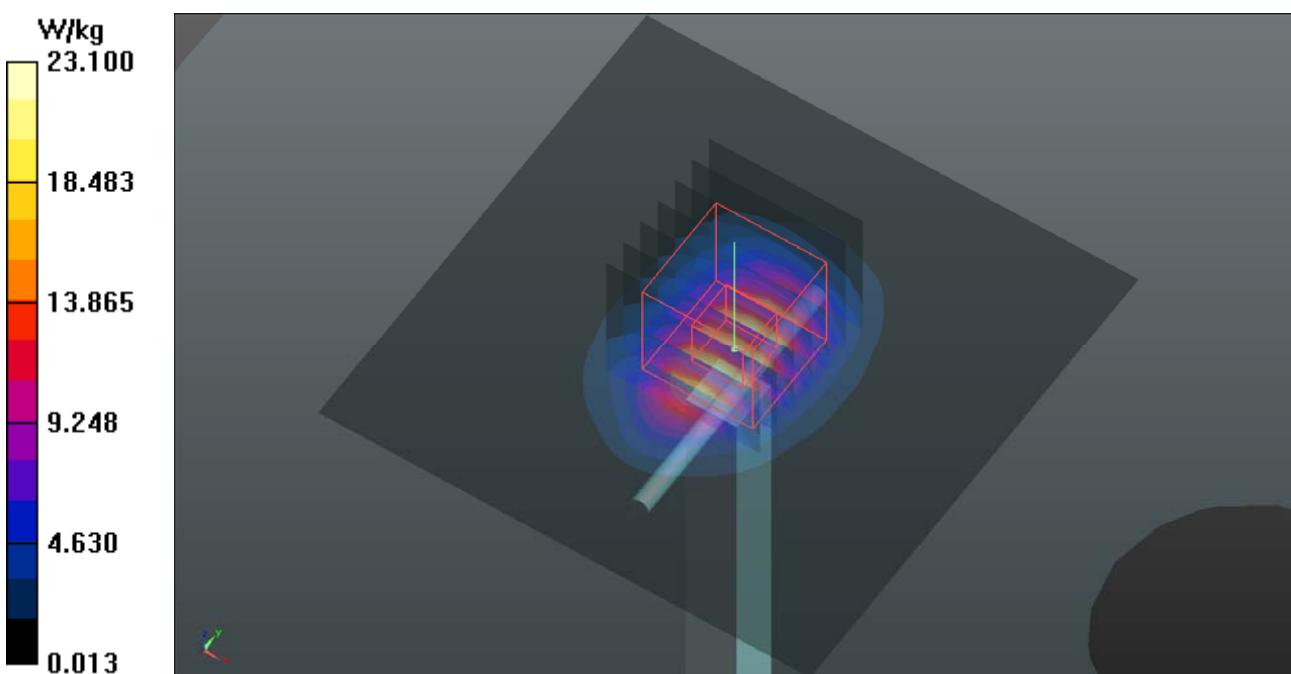
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 111.6 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 28.3 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.18 W/kg

Maximum value of SAR (measured) = 23.4 W/kg





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Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

P01 WLAN2.4G_802.11b_Front Face_10mm_Ch11_Sample FFWC**DUT: 181221C18**

Communication System: WLAN_2.4G; Frequency: 2462 MHz; Duty Cycle: 1:1.03

Medium: H19T27N1_0102 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.88 \text{ S/m}$; $\epsilon_r = 37.931$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7472; ConvF(7.71, 7.71, 7.71); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: Twin SAM Phantom_1654; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (71x71x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.156 W/kg

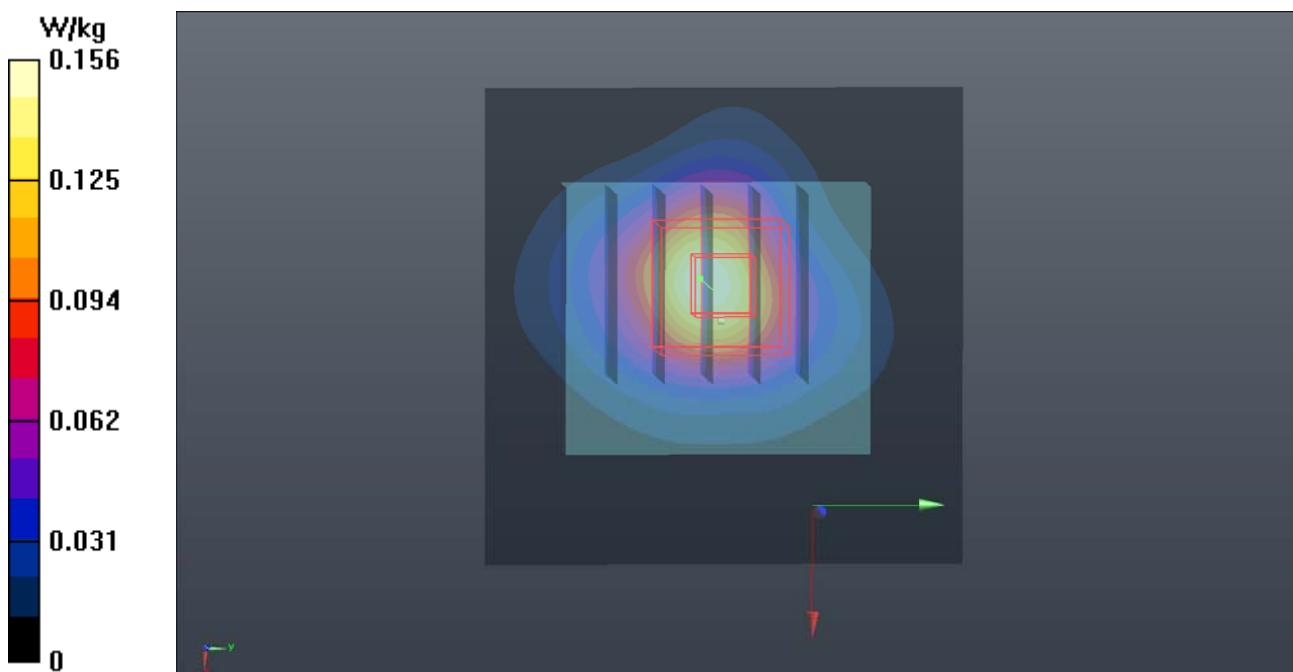
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.502 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.170 W/kg

SAR(1 g) = 0.091 W/kg; SAR(10 g) = 0.044 W/kg

Maximum value of SAR (measured) = 0.129 W/kg



P02 BT_BDR_Front Face_10mm_Ch0_Sample FFWC**DUT: 181221C18**

Communication System: BT; Frequency: 2402 MHz; Duty Cycle: 1:1.31

Medium: H19T27N1_0102 Medium parameters used: $f = 2402 \text{ MHz}$; $\sigma = 1.816 \text{ S/m}$; $\epsilon_r = 38.149$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7472; ConvF(7.71, 7.71, 7.71); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: Twin SAM Phantom_1654; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (71x71x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0377 W/kg

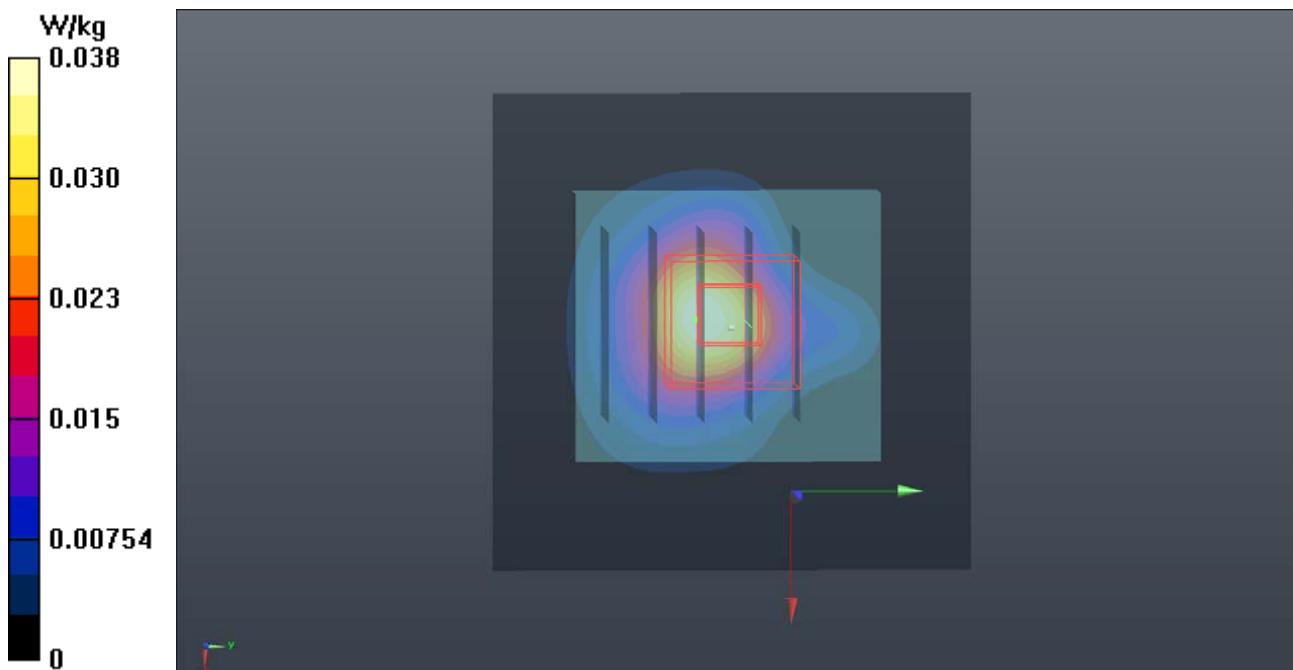
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.494 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.0410 W/kg

SAR(1 g) = 0.021 W/kg; SAR(10 g) = 0.00869 W/kg

Maximum value of SAR (measured) = 0.0323 W/kg



P03 WLAN2.4G_802.11b_Rear Face_0mm_Ch11_Sample FFWC**DUT: 181221C18**

Communication System: WLAN_2.4G; Frequency: 2462 MHz; Duty Cycle: 1:1.03

Medium: B19T27N1_0102 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.037 \text{ S/m}$; $\epsilon_r = 50.595$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7472; ConvF(7.84, 7.84, 7.84); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: Twin SAM Phantom_1822; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (71x71x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.600 W/kg

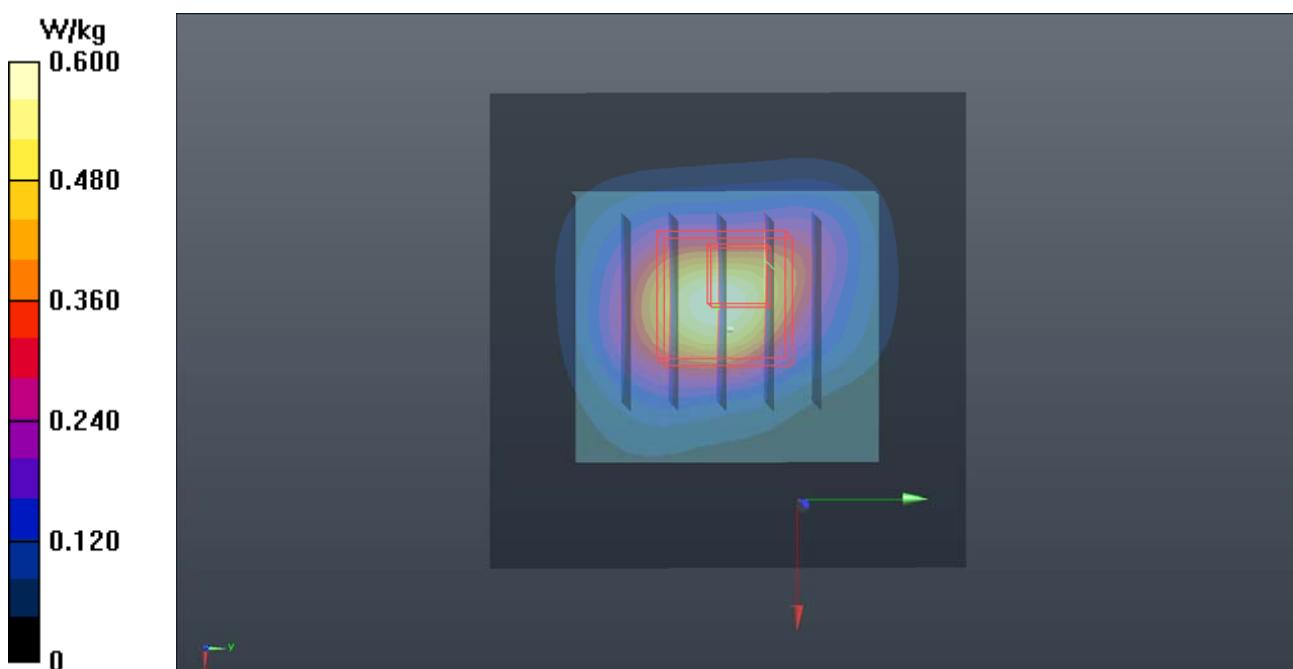
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.88 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.522 W/kg; SAR(10 g) = 0.222 W/kg

Maximum value of SAR (measured) = 0.895 W/kg



P04 BT_BDR_Rear Face_0mm_Ch0_Sample FFWC**DUT: 181221C18**

Communication System: BT; Frequency: 2402 MHz; Duty Cycle: 1:1.31

Medium: B19T27N1_0102 Medium parameters used: $f = 2402 \text{ MHz}$; $\sigma = 1.969 \text{ S/m}$; $\epsilon_r = 50.782$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7472; ConvF(7.84, 7.84, 7.84); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2018/03/16
- Phantom: Twin SAM Phantom_1822; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

- Area Scan (71x71x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.134 W/kg

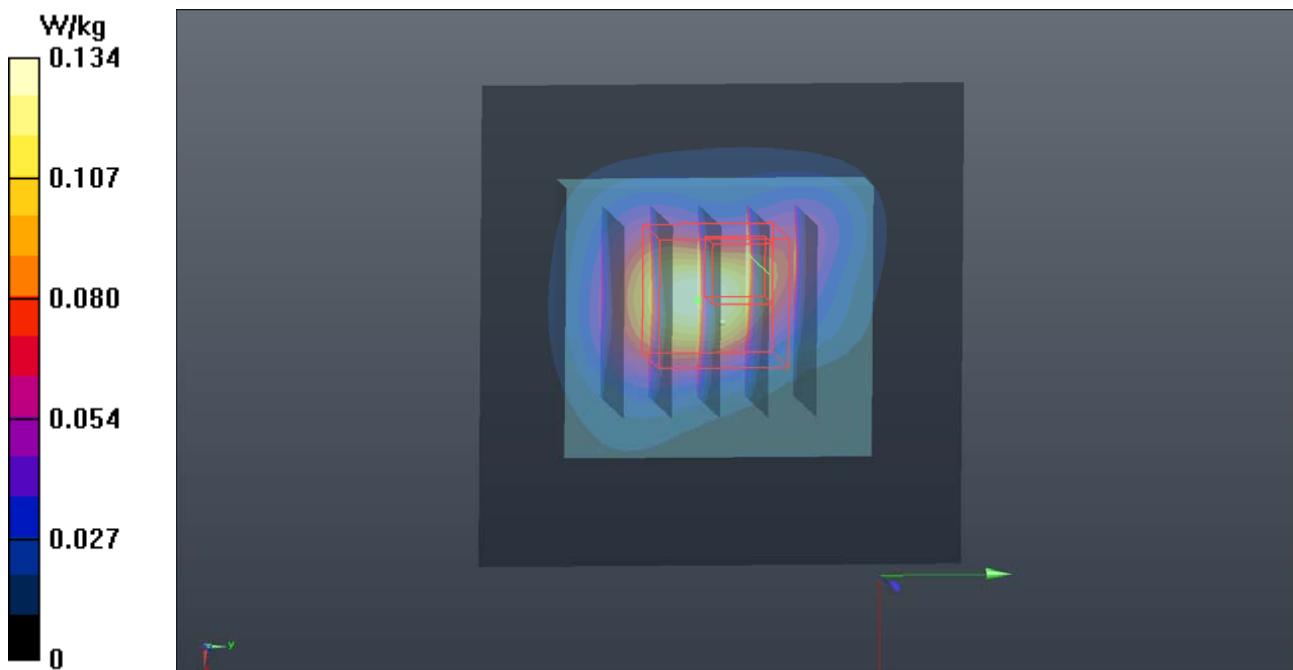
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.071 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.273 W/kg

SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.053 W/kg

Maximum value of SAR (measured) = 0.210 W/kg





Appendix C. Calibration Certificate for Probe and Dipole

The SPEAG calibration certificates are shown as follows.



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

Client **B.V. ADT (Auden)**

Accreditation No.: **SCS 0108**

Certificate No: **D2450V2-737_Aug18**

CALIBRATION CERTIFICATE

Object **D2450V2 - SN:737**

Calibration procedure(s) **QA CAL-05.v10**
 Calibration procedure for dipole validation kits above 700 MHz

Calibration date: **August 24, 2018**

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-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: 5058 (20k)	04-Apr-18 (No. 217-02682)	Apr-19
Type-N mismatch combination	SN: 5047.2 / 06327	04-Apr-18 (No. 217-02683)	Apr-19
Reference Probe EX3DV4	SN: 7349	30-Dec-17 (No. EX3-7349_Dec17)	Dec-18
DAE4	SN: 601	26-Oct-17 (No. DAE4-601_Oct17)	Oct-18

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-17)	In house check: Oct-18

Calibrated by:	Name	Function	Signature
	Manu Seitz	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

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

Issued: August 24, 2018



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

Accreditation No.: SCS 0108

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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- e) DASY4/5 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 dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss*: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay*: One-way delay between the SMA connector and the antenna feed point. 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	DASY5	V52.10.1
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.7 ± 6 %	1.86 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.2 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	51.5 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.13 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.2 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.8 ± 6 %	2.02 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.9 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.5 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.01 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.8 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$55.6 \Omega + 4.1 j\Omega$
Return Loss	- 23.7 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	$49.4 \Omega + 7.3 j\Omega$
Return Loss	- 22.7 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.162 ns
----------------------------------	----------

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

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

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

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	August 26, 2003

DASY5 Validation Report for Head TSL

Date: 23.08.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:737

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.86 \text{ S/m}$; $\epsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(7.88, 7.88, 7.88) @ 2450 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

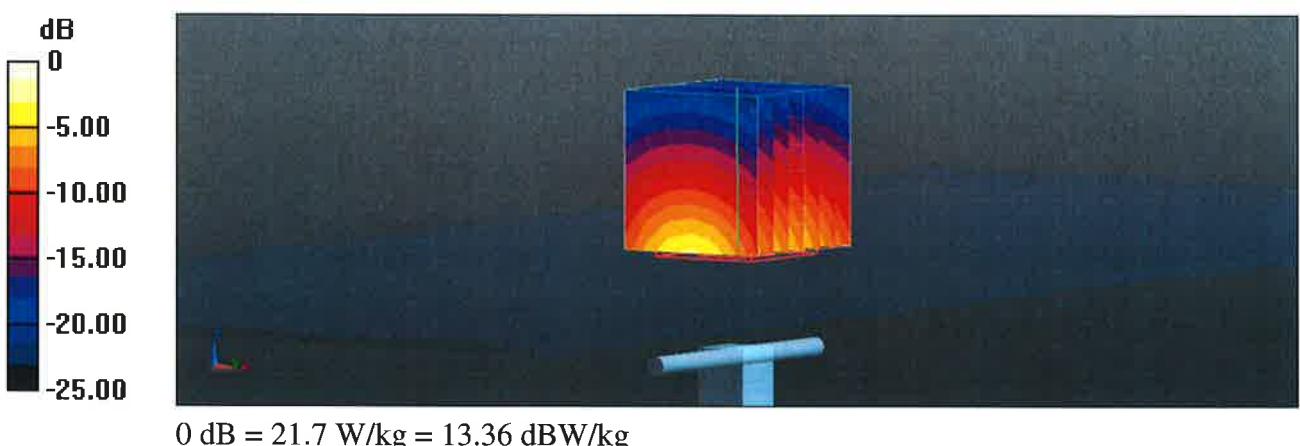
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 115.2 V/m; Power Drift = -0.05 dB

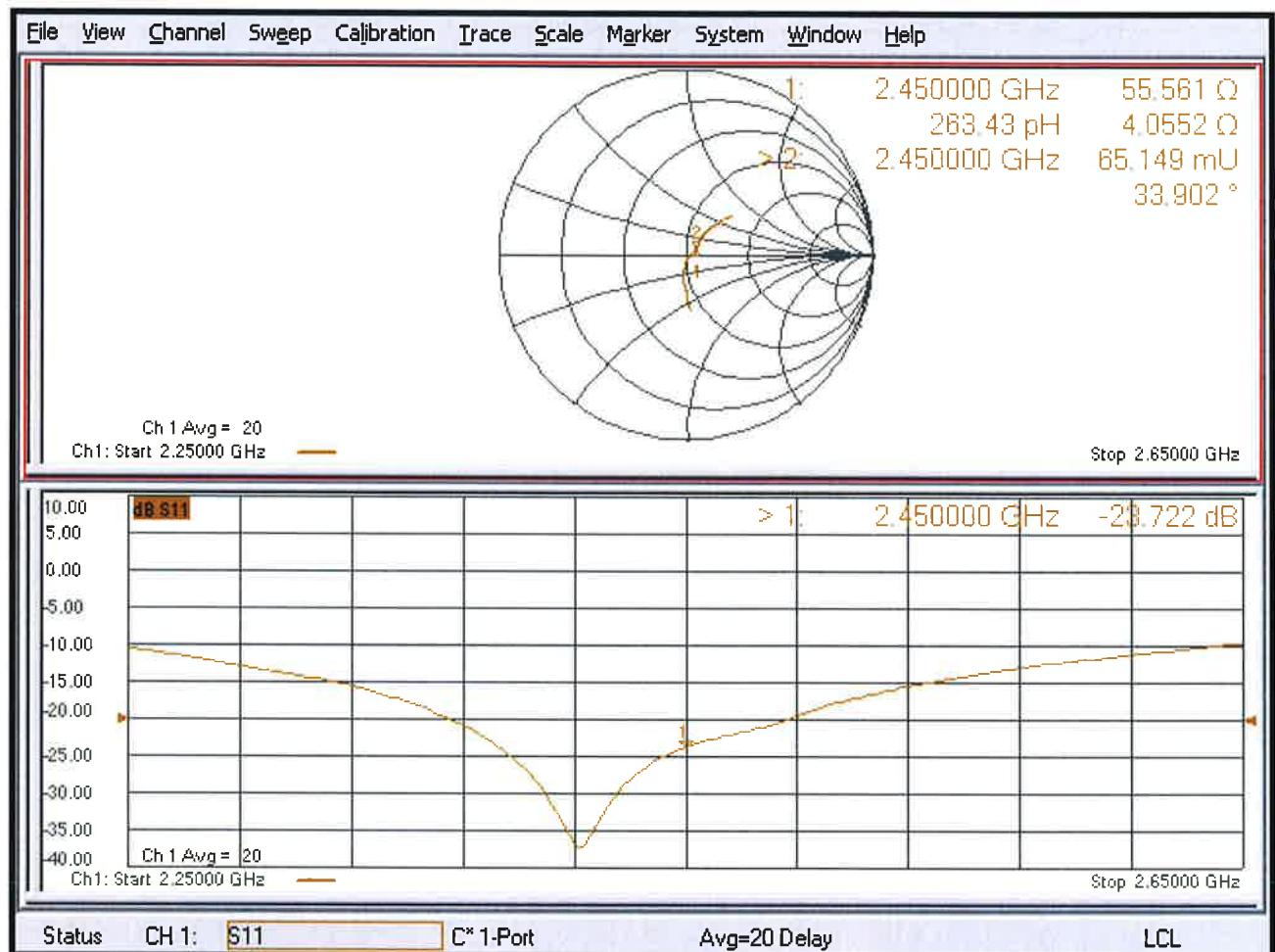
Peak SAR (extrapolated) = 26.1 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.13 W/kg

Maximum value of SAR (measured) = 21.7 W/kg



Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 24.08.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:737

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 2.02 \text{ S/m}$; $\epsilon_r = 51.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(8.01, 8.01, 8.01) @ 2450 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

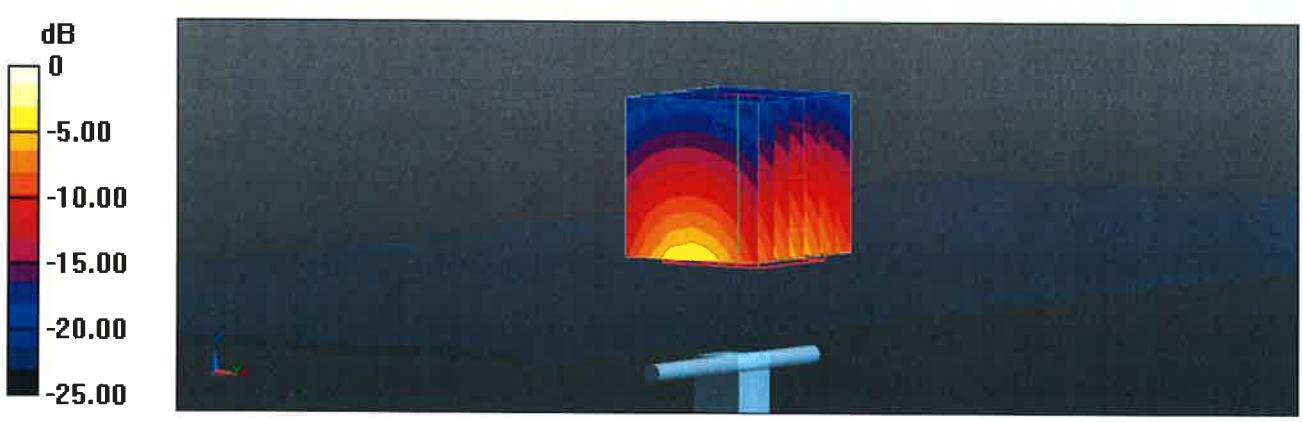
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 107.8 V/m; Power Drift = -0.01 dB

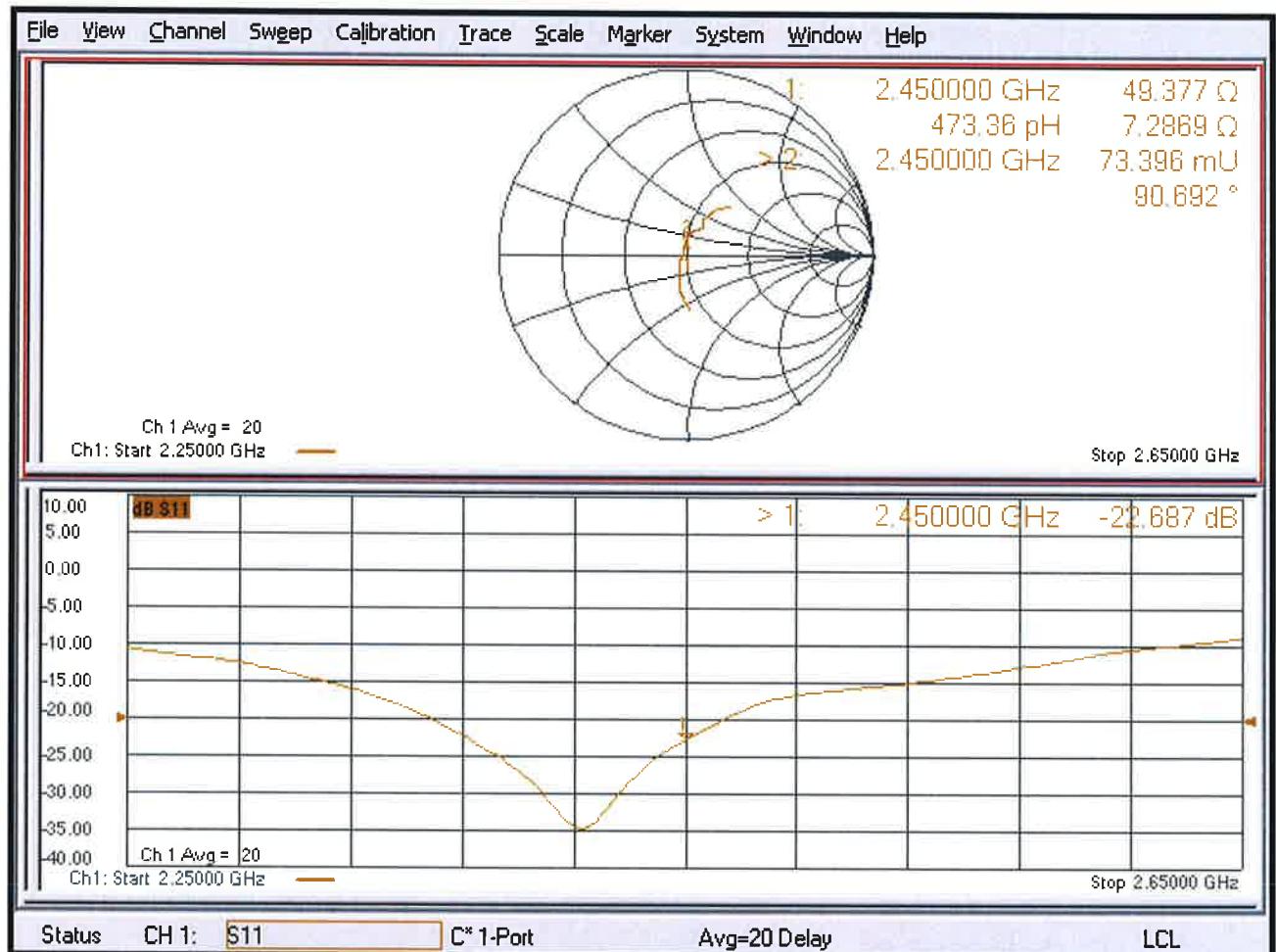
Peak SAR (extrapolated) = 25.5 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.01 W/kg

Maximum value of SAR (measured) = 20.9 W/kg



Impedance Measurement Plot for Body TSL



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



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

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 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client

BV ADT (Auden)

Certificate No: **EX3-7472_Aug18**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7472**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6**
Calibration procedure for dosimetric E-field probes

Calibration date: **August 29, 2018**

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-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-17)	In house check: Oct-18

Calibrated by:	Name Jeton Kastrati	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Function Technical Manager	Signature

Issued: September 1, 2018

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



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

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORM_{x,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.
- DCP_{x,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 $f \leq 800$ 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 NORM_{x,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).

Probe EX3DV4

SN:7472

Manufactured: October 25, 2016
Calibrated: August 29, 2018

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7472

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.59	0.49	0.42	$\pm 10.1 \%$
DCP (mV) ^B	95.3	94.3	99.8	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	133.5	$\pm 3.0 \%$
		Y	0.0	0.0	1.0		133.6	
		Z	0.0	0.0	1.0		144.4	

Note: For details on UID parameters see Appendix.

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	43.47	329.2	36.72	10.64	0.000	5.100	0.525	0.376	1.006
Y	31.96	249.6	38.64	3.696	0.054	5.076	0.000	0.365	1.009
Z	31.17	231.4	35.20	4.593	0.000	5.009	0.488	0.187	1.003

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

^A The uncertainties of Norm X,Y,Z do not affect the E^2 -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:7472

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	10.53	10.53	10.53	0.55	0.82	± 12.0 %
835	41.5	0.90	10.13	10.13	10.13	0.39	0.92	± 12.0 %
900	41.5	0.97	9.93	9.93	9.93	0.34	1.01	± 12.0 %
1450	40.5	1.20	9.18	9.18	9.18	0.37	0.80	± 12.0 %
1750	40.1	1.37	8.79	8.79	8.79	0.31	0.85	± 12.0 %
1900	40.0	1.40	8.44	8.44	8.44	0.23	1.08	± 12.0 %
2000	40.0	1.40	8.38	8.38	8.38	0.31	0.84	± 12.0 %
2100	39.8	1.49	8.47	8.47	8.47	0.27	0.96	± 12.0 %
2300	39.5	1.67	8.13	8.13	8.13	0.30	0.88	± 12.0 %
2450	39.2	1.80	7.71	7.71	7.71	0.36	0.93	± 12.0 %
2600	39.0	1.96	7.53	7.53	7.53	0.37	0.84	± 12.0 %
3500	37.9	2.91	7.54	7.54	7.54	0.29	1.20	± 13.1 %
3700	37.7	3.12	7.38	7.38	7.38	0.24	1.20	± 13.1 %
5250	35.9	4.71	5.62	5.62	5.62	0.40	1.80	± 13.1 %
5600	35.5	5.07	5.16	5.16	5.16	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.32	5.32	5.32	0.40	1.80	± 13.1 %

^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. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. 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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7472

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	10.66	10.66	10.66	0.47	0.85	± 12.0 %
835	55.2	0.97	10.35	10.35	10.35	0.34	0.98	± 12.0 %
1640	53.7	1.42	8.94	8.94	8.94	0.36	0.84	± 12.0 %
1750	53.4	1.49	8.42	8.42	8.42	0.34	0.99	± 12.0 %
1900	53.3	1.52	8.07	8.07	8.07	0.41	0.90	± 12.0 %
2300	52.9	1.81	8.11	8.11	8.11	0.43	0.88	± 12.0 %
2450	52.7	1.95	7.84	7.84	7.84	0.37	1.02	± 12.0 %
2600	52.5	2.16	7.70	7.70	7.70	0.24	1.05	± 12.0 %
3500	51.3	3.31	7.23	7.23	7.23	0.27	1.25	± 13.1 %
5250	48.9	5.36	4.90	4.90	4.90	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.37	4.37	4.37	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.56	4.56	4.56	0.50	1.90	± 13.1 %

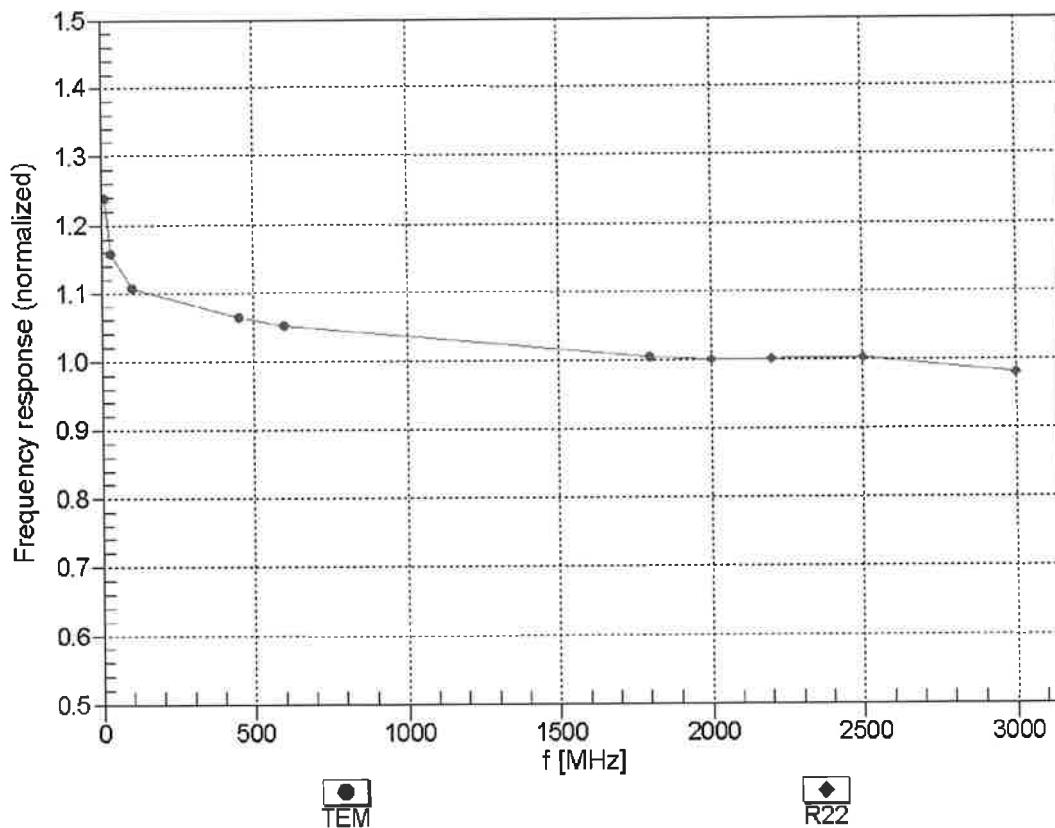
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is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

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. 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

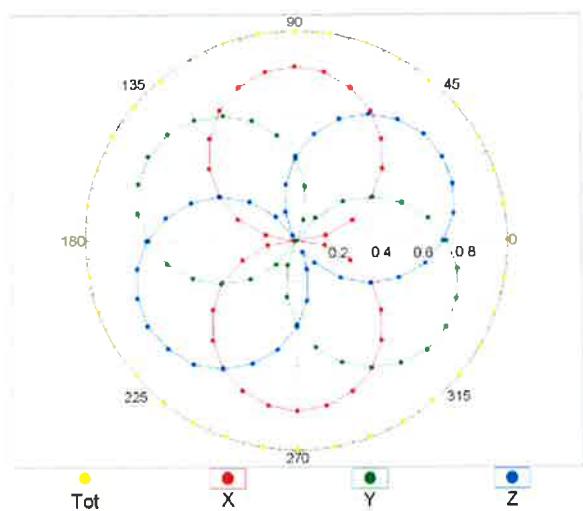
(TEM-Cell:ifi110 EXX, Waveguide: R22)



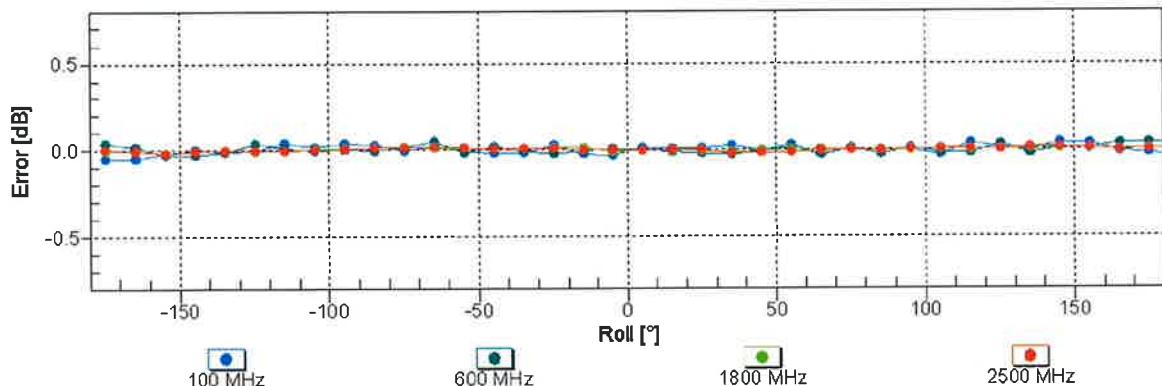
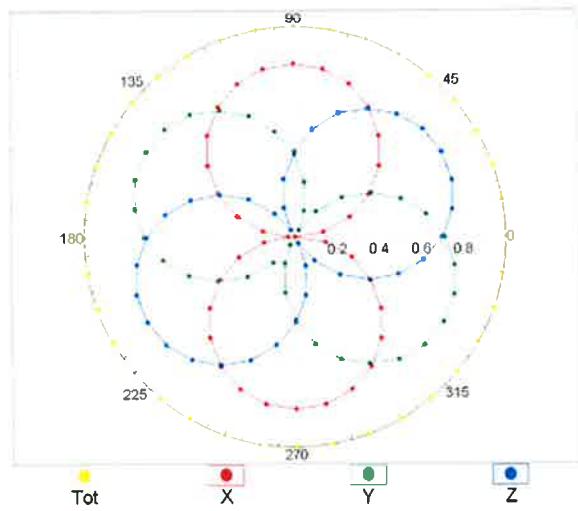
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

Receiving Pattern (ϕ), $\theta = 0^\circ$

$f=600 \text{ MHz, TEM}$



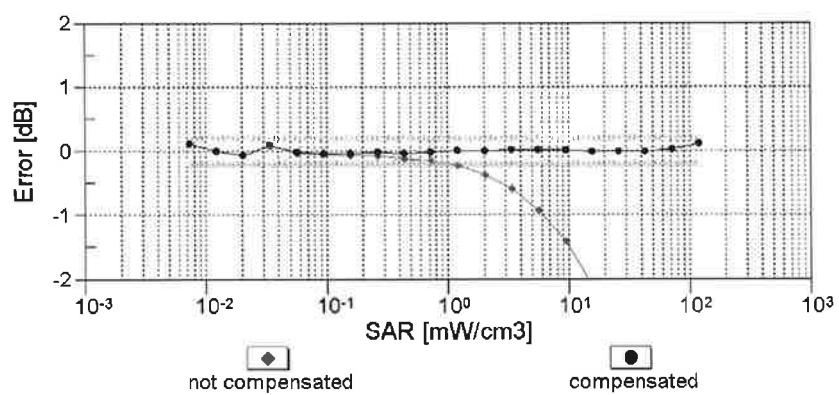
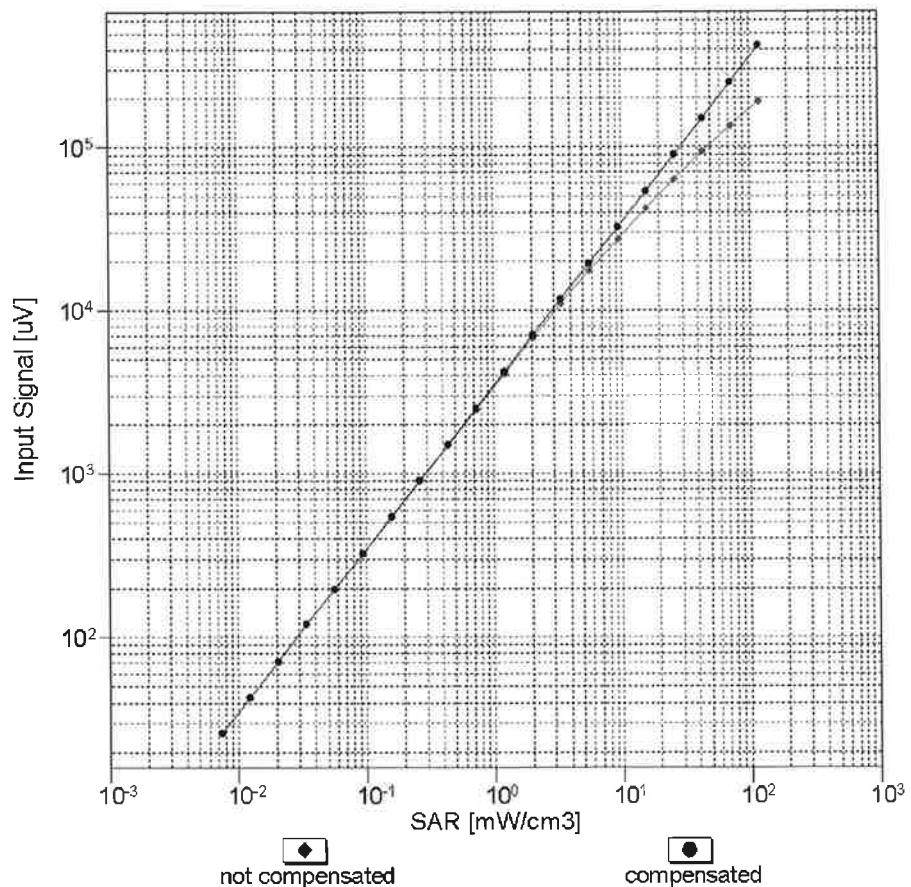
$f=1800 \text{ MHz, R22}$



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

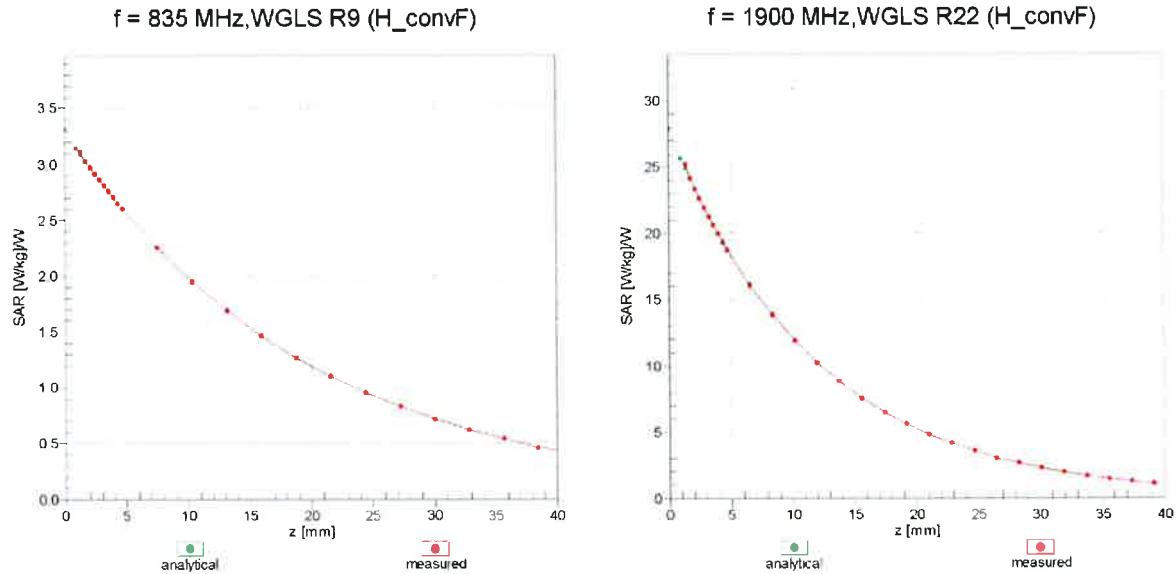
Dynamic Range f(SAR_{head})

(TEM cell , f_{eval}= 1900 MHz)

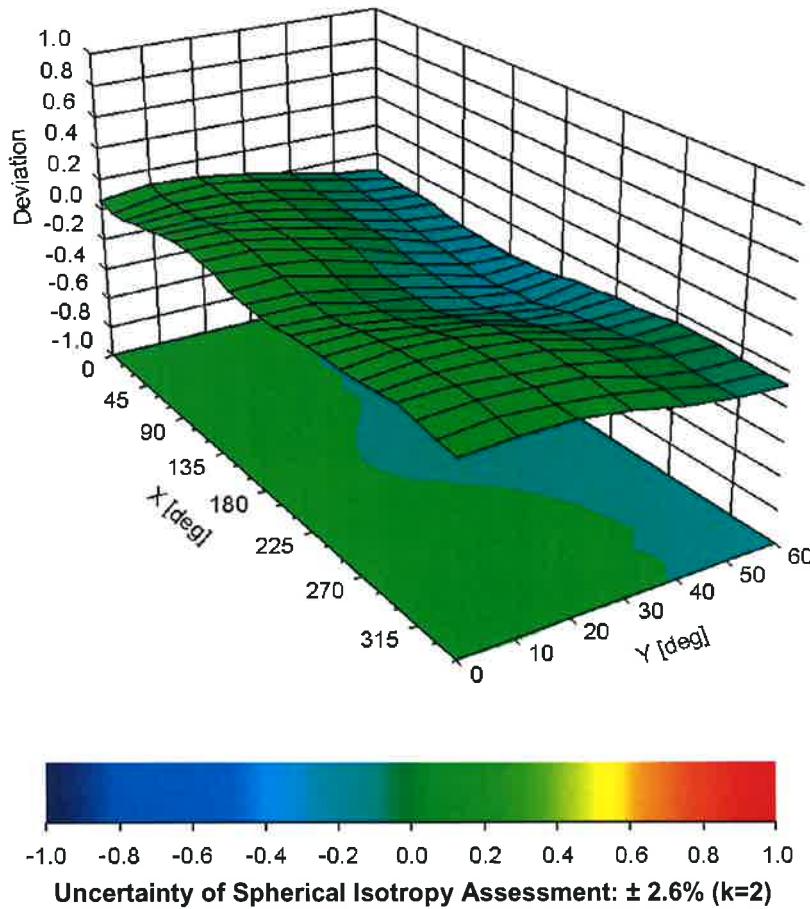


Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ, θ), $f = 900 \text{ MHz}$



DASY/EASY - Parameters of Probe: EX3DV4 - SN:7472

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	85.3
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

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB/ μ V	C	D dB	VR mV	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	133.5	$\pm 3.0\%$
		Y	0.00	0.00	1.00		133.6	
		Z	0.00	0.00	1.00		144.4	
10010-CAA	SAR Validation (Square, 100ms, 10ms)	X	2.34	67.68	10.56	10.00	20.0	$\pm 9.6\%$
		Y	1.30	61.29	6.68		20.0	
		Z	1.42	62.01	7.24		20.0	
10011-CAB	UMTS-FDD (WCDMA)	X	1.41	74.00	18.97	0.00	150.0	$\pm 9.6\%$
		Y	1.10	71.14	16.67		150.0	
		Z	0.89	65.99	14.09		150.0	
10012-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.20	65.33	16.76	0.41	150.0	$\pm 9.6\%$
		Y	1.06	64.38	15.88		150.0	
		Z	1.08	63.00	14.44		150.0	
10013-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.86	67.03	17.54	1.46	150.0	$\pm 9.6\%$
		Y	4.59	66.95	17.35		150.0	
		Z	4.54	66.56	16.75		150.0	
10021-DAC	GSM-FDD (TDMA, GMSK)	X	100.00	116.15	27.56	9.39	50.0	$\pm 9.6\%$
		Y	1001.65	127.98	26.91		50.0	
		Z	98.99	103.06	21.39		50.0	
10023-DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	115.11	27.13	9.57	50.0	$\pm 9.6\%$
		Y	100.00	104.27	21.99		50.0	
		Z	11.93	82.45	16.15		50.0	
10024-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	122.65	29.40	6.56	60.0	$\pm 9.6\%$
		Y	100.00	104.83	20.88		60.0	
		Z	100.00	102.56	20.00		60.0	
10025-DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	9.40	103.99	44.60	12.57	50.0	$\pm 9.6\%$
		Y	3.39	66.95	25.19		50.0	
		Z	4.22	73.78	28.57		50.0	
10026-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	10.13	100.70	38.02	9.56	60.0	$\pm 9.6\%$
		Y	5.03	82.18	30.25		60.0	
		Z	4.92	80.43	28.71		60.0	
10027-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	132.53	32.81	4.80	80.0	$\pm 9.6\%$
		Y	100.00	105.43	20.23		80.0	
		Z	100.00	104.08	19.90		80.0	
10028-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	146.99	37.99	3.55	100.0	$\pm 9.6\%$
		Y	100.00	102.72	18.37		100.0	
		Z	100.00	107.31	20.61		100.0	
10029-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	5.41	83.48	29.81	7.80	80.0	$\pm 9.6\%$
		Y	3.45	73.38	25.11		80.0	
		Z	3.42	72.17	23.73		80.0	
10030-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	123.68	29.38	5.30	70.0	$\pm 9.6\%$
		Y	100.00	101.00	18.69		70.0	
		Z	100.00	100.07	18.46		70.0	
10031-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	174.36	46.71	1.88	100.0	$\pm 9.6\%$
		Y	0.01	60.14	979.96		100.0	
		Z	100.00	96.43	15.21		100.0	

10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	245.97	71.95	1.17	100.0	$\pm 9.6 \%$
		Y	0.00	92.67	90.27		100.0	
		Z	100.00	100.76	16.27		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	100.00	137.41	38.07	5.30	70.0	$\pm 9.6 \%$
		Y	100.00	126.80	32.25		70.0	
		Z	3.77	78.36	18.23		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	100.00	132.28	34.25	1.88	100.0	$\pm 9.6 \%$
		Y	3.66	80.25	17.02		100.0	
		Z	1.26	67.28	12.12		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	21.39	109.23	28.33	1.17	100.0	$\pm 9.6 \%$
		Y	1.38	69.89	12.73		100.0	
		Z	1.01	65.66	11.12		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	100.00	138.07	38.36	5.30	70.0	$\pm 9.6 \%$
		Y	100.00	127.61	32.61		70.0	
		Z	4.69	81.58	19.44		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	100.00	132.40	34.26	1.88	100.0	$\pm 9.6 \%$
		Y	2.52	76.27	15.68		100.0	
		Z	1.16	66.50	11.76		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	22.19	110.53	28.87	1.17	100.0	$\pm 9.6 \%$
		Y	1.49	71.00	13.35		100.0	
		Z	1.01	65.81	11.32		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	5.50	87.92	21.32	0.00	150.0	$\pm 9.6 \%$
		Y	0.77	63.84	9.15		150.0	
		Z	0.90	65.02	10.44		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	100.00	113.40	25.61	7.78	50.0	$\pm 9.6 \%$
		Y	100.00	100.13	19.26		50.0	
		Z	4.08	73.45	12.38		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	120.40	0.60	0.00	150.0	$\pm 9.6 \%$
		Y	0.16	133.03	15.20		150.0	
		Z	0.00	98.37	5.75		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	100.00	109.59	26.01	13.80	25.0	$\pm 9.6 \%$
		Y	6.96	73.06	14.48		25.0	
		Z	4.37	68.01	12.35		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	1056.68	138.54	31.22	10.79	40.0	$\pm 9.6 \%$
		Y	9.18	78.92	15.41		40.0	
		Z	4.47	71.30	12.55		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	100.00	129.08	35.40	9.03	50.0	$\pm 9.6 \%$
		Y	100.00	118.96	30.09		50.0	
		Z	18.65	94.06	23.16		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	4.13	77.18	26.11	6.55	100.0	$\pm 9.6 \%$
		Y	2.91	70.18	22.76		100.0	
		Z	2.90	69.11	21.43		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.25	66.80	17.66	0.61	110.0	$\pm 9.6 \%$
		Y	1.07	65.41	16.55		110.0	
		Z	1.07	63.48	14.73		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	155.23	42.89	1.30	110.0	$\pm 9.6 \%$
		Y	100.00	153.16	41.00		110.0	
		Z	1.52	78.78	20.03		110.0	

10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	5.91	99.09	30.59	2.04	110.0	$\pm 9.6 \%$
		Y	2.44	84.32	25.12		110.0	
		Z	1.36	70.30	18.03		110.0	
10062-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.67	67.04	16.94	0.49	100.0	$\pm 9.6 \%$
		Y	4.39	66.91	16.73		100.0	
		Z	4.36	66.59	16.22		100.0	
10063-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.68	67.15	17.05	0.72	100.0	$\pm 9.6 \%$
		Y	4.40	67.02	16.84		100.0	
		Z	4.37	66.66	16.30		100.0	
10064-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.96	67.38	17.26	0.86	100.0	$\pm 9.6 \%$
		Y	4.63	67.20	17.03		100.0	
		Z	4.59	66.84	16.49		100.0	
10065-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.82	67.27	17.39	1.21	100.0	$\pm 9.6 \%$
		Y	4.50	67.03	17.12		100.0	
		Z	4.46	66.62	16.53		100.0	
10066-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.83	67.28	17.56	1.46	100.0	$\pm 9.6 \%$
		Y	4.50	67.02	17.28		100.0	
		Z	4.45	66.57	16.65		100.0	
10067-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.12	67.47	18.02	2.04	100.0	$\pm 9.6 \%$
		Y	4.78	67.29	17.77		100.0	
		Z	4.72	66.83	17.11		100.0	
10068-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.15	67.45	18.23	2.55	100.0	$\pm 9.6 \%$
		Y	4.80	67.17	17.93		100.0	
		Z	4.74	66.71	17.26		100.0	
10069-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.23	67.45	18.42	2.67	100.0	$\pm 9.6 \%$
		Y	4.86	67.19	18.11		100.0	
		Z	4.80	66.72	17.43		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.94	67.09	17.85	1.99	100.0	$\pm 9.6 \%$
		Y	4.67	67.00	17.65		100.0	
		Z	4.62	66.59	17.02		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.91	67.42	18.09	2.30	100.0	$\pm 9.6 \%$
		Y	4.61	67.22	17.85		100.0	
		Z	4.55	66.73	17.16		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.96	67.57	18.44	2.83	100.0	$\pm 9.6 \%$
		Y	4.67	67.40	18.21		100.0	
		Z	4.60	66.87	17.47		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.93	67.42	18.58	3.30	100.0	$\pm 9.6 \%$
		Y	4.67	67.34	18.36		100.0	
		Z	4.60	66.81	17.62		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	4.95	67.47	18.88	3.82	90.0	$\pm 9.6 \%$
		Y	4.67	67.28	18.59		90.0	
		Z	4.60	66.76	17.83		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	4.96	67.23	19.00	4.15	90.0	$\pm 9.6 \%$
		Y	4.71	67.12	18.75		90.0	
		Z	4.64	66.62	18.00		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	4.98	67.30	19.10	4.30	90.0	$\pm 9.6 \%$
		Y	4.74	67.21	18.87		90.0	
		Z	4.67	66.72	18.11		90.0	

10081-CAB	CDMA2000 (1xRTT, RC3)	X	1.52	75.04	16.52	0.00	150.0	$\pm 9.6\%$
		Y	0.37	60.29	6.45		150.0	
		Z	0.51	62.07	8.44		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	4.89	67.43	6.25	4.77	80.0	$\pm 9.6\%$
		Y	6.57	101.00	1.95		80.0	
		Z	6.94	60.29	1.65		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	122.68	29.44	6.56	60.0	$\pm 9.6\%$
		Y	100.00	105.02	20.98		60.0	
		Z	100.00	102.55	20.01		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	2.10	70.85	17.51	0.00	150.0	$\pm 9.6\%$
		Y	1.92	70.54	16.43		150.0	
		Z	1.69	67.62	14.91		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	2.06	70.87	17.52	0.00	150.0	$\pm 9.6\%$
		Y	1.88	70.51	16.43		150.0	
		Z	1.66	67.55	14.88		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	10.27	101.05	38.15	9.56	60.0	$\pm 9.6\%$
		Y	5.07	82.34	30.32		60.0	
		Z	4.95	80.57	28.77		60.0	
10100-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.43	72.46	18.03	0.00	150.0	$\pm 9.6\%$
		Y	3.00	71.05	17.31		150.0	
		Z	2.79	69.27	16.23		150.0	
10101-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.32	68.42	16.67	0.00	150.0	$\pm 9.6\%$
		Y	3.04	67.71	16.22		150.0	
		Z	2.99	66.99	15.57		150.0	
10102-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.42	68.30	16.71	0.00	150.0	$\pm 9.6\%$
		Y	3.15	67.71	16.32		150.0	
		Z	3.10	67.04	15.69		150.0	
10103-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	6.63	78.67	22.44	3.98	65.0	$\pm 9.6\%$
		Y	4.97	74.91	20.92		65.0	
		Z	4.39	71.81	18.93		65.0	
10104-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	5.97	74.45	21.43	3.98	65.0	$\pm 9.6\%$
		Y	4.74	71.27	19.92		65.0	
		Z	4.67	70.32	18.88		65.0	
10105-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	5.78	73.57	21.33	3.98	65.0	$\pm 9.6\%$
		Y	4.59	70.26	19.73		65.0	
		Z	4.69	70.17	19.12		65.0	
10108-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.99	71.81	17.94	0.00	150.0	$\pm 9.6\%$
		Y	2.59	70.70	17.25		150.0	
		Z	2.39	68.62	16.01		150.0	
10109-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.99	68.50	16.68	0.00	150.0	$\pm 9.6\%$
		Y	2.70	67.92	16.12		150.0	
		Z	2.63	66.94	15.36		150.0	
10110-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.46	71.37	17.77	0.00	150.0	$\pm 9.6\%$
		Y	2.08	70.31	16.76		150.0	
		Z	1.89	67.77	15.34		150.0	
10111-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.78	70.04	17.24	0.00	150.0	$\pm 9.6\%$
		Y	2.51	69.83	16.46		150.0	
		Z	2.34	68.02	15.39		150.0	

10112-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.10	68.42	16.68	0.00	150.0	$\pm 9.6\%$
		Y	2.82	67.99	16.19		150.0	
		Z	2.75	67.06	15.46		150.0	
10113-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.92	70.07	17.30	0.00	150.0	$\pm 9.6\%$
		Y	2.65	69.97	16.58		150.0	
		Z	2.48	68.23	15.55		150.0	
10114-CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.13	67.50	16.81	0.00	150.0	$\pm 9.6\%$
		Y	4.89	67.27	16.70		150.0	
		Z	4.86	67.04	16.29		150.0	
10115-CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.39	67.53	16.82	0.00	150.0	$\pm 9.6\%$
		Y	5.13	67.33	16.73		150.0	
		Z	5.09	67.08	16.31		150.0	
10116-CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.22	67.68	16.82	0.00	150.0	$\pm 9.6\%$
		Y	4.96	67.42	16.70		150.0	
		Z	4.92	67.18	16.29		150.0	
10117-CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.09	67.34	16.75	0.00	150.0	$\pm 9.6\%$
		Y	4.85	67.11	16.64		150.0	
		Z	4.84	66.94	16.26		150.0	
10118-CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.47	67.75	16.94	0.00	150.0	$\pm 9.6\%$
		Y	5.22	67.61	16.87		150.0	
		Z	5.15	67.25	16.40		150.0	
10119-CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.21	67.65	16.82	0.00	150.0	$\pm 9.6\%$
		Y	4.97	67.47	16.73		150.0	
		Z	4.93	67.21	16.32		150.0	
10140-CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.45	68.32	16.63	0.00	150.0	$\pm 9.6\%$
		Y	3.16	67.74	16.22		150.0	
		Z	3.11	67.06	15.60		150.0	
10141-CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.57	68.38	16.77	0.00	150.0	$\pm 9.6\%$
		Y	3.29	67.93	16.43		150.0	
		Z	3.24	67.27	15.81		150.0	
10142-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.31	72.19	17.70	0.00	150.0	$\pm 9.6\%$
		Y	1.84	70.24	15.75		150.0	
		Z	1.61	67.36	14.34		150.0	
10143-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.78	71.70	17.21	0.00	150.0	$\pm 9.6\%$
		Y	2.23	69.60	14.92		150.0	
		Z	2.04	67.76	14.06		150.0	
10144-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.37	68.34	15.11	0.00	150.0	$\pm 9.6\%$
		Y	1.76	65.46	12.30		150.0	
		Z	1.75	64.90	12.06		150.0	
10145-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.34	67.20	12.57	0.00	150.0	$\pm 9.6\%$
		Y	0.58	60.00	6.00		150.0	
		Z	0.63	60.09	6.61		150.0	
10146-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	1.80	66.04	11.19	0.00	150.0	$\pm 9.6\%$
		Y	0.81	60.00	5.80		150.0	
		Z	0.74	59.14	5.14		150.0	
10147-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.23	68.53	12.47	0.00	150.0	$\pm 9.6\%$
		Y	0.82	60.00	5.86		150.0	
		Z	0.82	60.00	5.75		150.0	

10149-CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	3.00	68.56	16.73	0.00	150.0	$\pm 9.6 \%$
		Y	2.71	68.01	16.18		150.0	
		Z	2.64	67.00	15.41		150.0	
10150-CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.11	68.48	16.73	0.00	150.0	$\pm 9.6 \%$
		Y	2.83	68.06	16.25		150.0	
		Z	2.76	67.12	15.51		150.0	
10151-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	7.28	82.43	24.09	3.98	65.0	$\pm 9.6 \%$
		Y	5.26	78.32	22.39		65.0	
		Z	4.57	74.50	20.07		65.0	
10152-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.58	74.84	21.32	3.98	65.0	$\pm 9.6 \%$
		Y	4.31	71.47	19.53		65.0	
		Z	4.17	70.09	18.28		65.0	
10153-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	5.93	75.73	22.07	3.98	65.0	$\pm 9.6 \%$
		Y	4.68	72.73	20.50		65.0	
		Z	4.50	71.21	19.18		65.0	
10154-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.52	71.87	18.05	0.00	150.0	$\pm 9.6 \%$
		Y	2.15	70.84	17.06		150.0	
		Z	1.92	68.10	15.55		150.0	
10155-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.78	70.07	17.27	0.00	150.0	$\pm 9.6 \%$
		Y	2.52	69.90	16.51		150.0	
		Z	2.35	68.07	15.43		150.0	
10156-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.23	72.99	17.74	0.00	150.0	$\pm 9.6 \%$
		Y	1.59	69.37	14.67		150.0	
		Z	1.40	66.71	13.48		150.0	
10157-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.30	69.57	15.39	0.00	150.0	$\pm 9.6 \%$
		Y	1.50	65.00	11.47		150.0	
		Z	1.51	64.64	11.43		150.0	
10158-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.93	70.15	17.36	0.00	150.0	$\pm 9.6 \%$
		Y	2.67	70.10	16.66		150.0	
		Z	2.49	68.32	15.61		150.0	
10159-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.43	70.08	15.68	0.00	150.0	$\pm 9.6 \%$
		Y	1.56	65.18	11.60		150.0	
		Z	1.57	64.86	11.57		150.0	
10160-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.95	70.60	17.56	0.00	150.0	$\pm 9.6 \%$
		Y	2.65	70.14	17.04		150.0	
		Z	2.45	68.14	15.84		150.0	
10161-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.01	68.50	16.68	0.00	150.0	$\pm 9.6 \%$
		Y	2.72	68.08	16.09		150.0	
		Z	2.64	67.06	15.33		150.0	
10162-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.12	68.65	16.78	0.00	150.0	$\pm 9.6 \%$
		Y	2.83	68.35	16.25		150.0	
		Z	2.75	67.32	15.49		150.0	
10166-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.54	70.32	19.84	3.01	150.0	$\pm 9.6 \%$
		Y	3.07	69.50	19.71		150.0	
		Z	2.87	67.61	18.12		150.0	
10167-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.39	73.70	20.46	3.01	150.0	$\pm 9.6 \%$
		Y	3.58	72.39	20.12		150.0	
		Z	3.19	69.79	18.32		150.0	

10168-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.94	76.27	21.92	3.01	150.0	$\pm 9.6\%$
		Y	4.16	75.85	22.10		150.0	
		Z	3.56	72.23	19.84		150.0	
10169-CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.88	69.33	19.49	3.01	150.0	$\pm 9.6\%$
		Y	2.45	67.37	18.76		150.0	
		Z	2.30	65.76	17.24		150.0	
10170-CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	3.98	75.90	22.12	3.01	150.0	$\pm 9.6\%$
		Y	3.10	72.96	21.24		150.0	
		Z	2.68	69.90	19.10		150.0	
10171-AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	3.27	71.70	19.32	3.01	150.0	$\pm 9.6\%$
		Y	2.54	68.67	18.14		150.0	
		Z	2.28	66.68	16.51		150.0	
10172-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	10.27	101.18	33.63	6.02	65.0	$\pm 9.6\%$
		Y	3.35	79.67	26.16		65.0	
		Z	2.73	74.07	22.30		65.0	
10173-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	43.84	124.70	37.83	6.02	65.0	$\pm 9.6\%$
		Y	7.48	94.47	29.63		65.0	
		Z	3.47	77.82	21.95		65.0	
10174-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	30.33	115.31	34.56	6.02	65.0	$\pm 9.6\%$
		Y	6.12	89.48	27.22		65.0	
		Z	3.20	76.04	20.65		65.0	
10175-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.85	69.05	19.26	3.01	150.0	$\pm 9.6\%$
		Y	2.43	67.08	18.50		150.0	
		Z	2.28	65.54	17.02		150.0	
10176-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.99	75.93	22.13	3.01	150.0	$\pm 9.6\%$
		Y	3.10	72.98	21.26		150.0	
		Z	2.69	69.92	19.11		150.0	
10177-CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.87	69.18	19.34	3.01	150.0	$\pm 9.6\%$
		Y	2.44	67.20	18.58		150.0	
		Z	2.29	65.63	17.08		150.0	
10178-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	3.95	75.74	22.03	3.01	150.0	$\pm 9.6\%$
		Y	3.08	72.83	21.17		150.0	
		Z	2.67	69.82	19.05		150.0	
10179-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.61	73.76	20.62	3.01	150.0	$\pm 9.6\%$
		Y	2.79	70.72	19.57		150.0	
		Z	2.46	68.20	17.68		150.0	
10180-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.27	71.65	19.28	3.01	150.0	$\pm 9.6\%$
		Y	2.54	68.64	18.11		150.0	
		Z	2.28	66.66	16.49		150.0	
10181-CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.86	69.16	19.34	3.01	150.0	$\pm 9.6\%$
		Y	2.44	67.18	18.57		150.0	
		Z	2.29	65.62	17.08		150.0	
10182-CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.95	75.72	22.02	3.01	150.0	$\pm 9.6\%$
		Y	3.08	72.81	21.16		150.0	
		Z	2.67	69.80	19.04		150.0	
10183-AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	3.26	71.62	19.26	3.01	150.0	$\pm 9.6\%$
		Y	2.53	68.62	18.09		150.0	
		Z	2.27	66.64	16.48		150.0	

10184-CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.87	69.21	19.36	3.01	150.0	$\pm 9.6\%$
		Y	2.44	67.22	18.59		150.0	
		Z	2.29	65.65	17.10		150.0	
10185-CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.97	75.79	22.06	3.01	150.0	$\pm 9.6\%$
		Y	3.09	72.88	21.20		150.0	
		Z	2.68	69.86	19.07		150.0	
10186-AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	3.28	71.69	19.30	3.01	150.0	$\pm 9.6\%$
		Y	2.55	68.68	18.13		150.0	
		Z	2.28	66.69	16.51		150.0	
10187-CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.88	69.26	19.42	3.01	150.0	$\pm 9.6\%$
		Y	2.46	67.31	18.69		150.0	
		Z	2.30	65.72	17.18		150.0	
10188-CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	4.09	76.43	22.42	3.01	150.0	$\pm 9.6\%$
		Y	3.18	73.51	21.59		150.0	
		Z	2.74	70.31	19.38		150.0	
10189-AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.35	72.12	19.58	3.01	150.0	$\pm 9.6\%$
		Y	2.59	69.07	18.41		150.0	
		Z	2.32	66.98	16.74		150.0	
10193-CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.52	66.99	16.52	0.00	150.0	$\pm 9.6\%$
		Y	4.27	66.96	16.34		150.0	
		Z	4.26	66.75	15.96		150.0	
10194-CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.68	67.28	16.65	0.00	150.0	$\pm 9.6\%$
		Y	4.40	67.16	16.48		150.0	
		Z	4.39	66.94	16.09		150.0	
10195-CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.72	67.31	16.67	0.00	150.0	$\pm 9.6\%$
		Y	4.43	67.16	16.49		150.0	
		Z	4.42	66.94	16.10		150.0	
10196-CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.52	67.04	16.53	0.00	150.0	$\pm 9.6\%$
		Y	4.25	66.93	16.32		150.0	
		Z	4.24	66.72	15.93		150.0	
10197-CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.69	67.30	16.66	0.00	150.0	$\pm 9.6\%$
		Y	4.40	67.16	16.49		150.0	
		Z	4.40	66.94	16.09		150.0	
10198-CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.72	67.33	16.68	0.00	150.0	$\pm 9.6\%$
		Y	4.42	67.15	16.49		150.0	
		Z	4.41	66.93	16.09		150.0	
10219-CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.47	67.07	16.51	0.00	150.0	$\pm 9.6\%$
		Y	4.20	67.00	16.31		150.0	
		Z	4.20	66.76	15.91		150.0	
10220-CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.69	67.26	16.65	0.00	150.0	$\pm 9.6\%$
		Y	4.40	67.12	16.47		150.0	
		Z	4.39	66.90	16.08		150.0	
10221-CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.73	67.25	16.66	0.00	150.0	$\pm 9.6\%$
		Y	4.44	67.10	16.48		150.0	
		Z	4.43	66.89	16.09		150.0	
10222-CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.07	67.35	16.74	0.00	150.0	$\pm 9.6\%$
		Y	4.84	67.13	16.64		150.0	
		Z	4.82	66.94	16.25		150.0	

10223-CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.37	67.59	16.88	0.00	150.0	$\pm 9.6\%$
		Y	5.07	67.25	16.70		150.0	
		Z	5.05	67.07	16.32		150.0	
10224-CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.11	67.46	16.73	0.00	150.0	$\pm 9.6\%$
		Y	4.88	67.27	16.64		150.0	
		Z	4.86	67.07	16.24		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.85	67.06	15.94	0.00	150.0	$\pm 9.6\%$
		Y	2.54	66.58	14.94		150.0	
		Z	2.52	65.90	14.39		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	50.73	127.79	38.72	6.02	65.0	$\pm 9.6\%$
		Y	8.23	96.51	30.41		65.0	
		Z	3.63	78.68	22.38		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	53.37	125.81	37.31	6.02	65.0	$\pm 9.6\%$
		Y	9.16	97.18	29.83		65.0	
		Z	3.60	77.85	21.36		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	11.60	104.22	34.69	6.02	65.0	$\pm 9.6\%$
		Y	3.85	83.17	27.72		65.0	
		Z	2.78	74.50	22.51		65.0	
10229-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	44.18	124.81	37.86	6.02	65.0	$\pm 9.6\%$
		Y	7.55	94.61	29.68		65.0	
		Z	3.49	77.91	21.99		65.0	
10230-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	45.67	122.73	36.45	6.02	65.0	$\pm 9.6\%$
		Y	8.18	94.94	29.03		65.0	
		Z	3.43	77.01	20.96		65.0	
10231-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	10.92	102.81	34.17	6.02	65.0	$\pm 9.6\%$
		Y	3.70	82.23	27.26		65.0	
		Z	2.71	73.97	22.20		65.0	
10232-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	44.14	124.82	37.86	6.02	65.0	$\pm 9.6\%$
		Y	7.53	94.57	29.67		65.0	
		Z	3.49	77.89	21.98		65.0	
10233-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	45.45	122.67	36.44	6.02	65.0	$\pm 9.6\%$
		Y	8.13	94.85	29.01		65.0	
		Z	3.42	76.97	20.95		65.0	
10234-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	10.46	101.69	33.68	6.02	65.0	$\pm 9.6\%$
		Y	3.60	81.60	26.88		65.0	
		Z	2.66	73.56	21.91		65.0	
10235-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	44.43	124.97	37.91	6.02	65.0	$\pm 9.6\%$
		Y	7.54	94.62	29.69		65.0	
		Z	3.48	77.90	21.99		65.0	
10236-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	47.11	123.27	36.58	6.02	65.0	$\pm 9.6\%$
		Y	8.29	95.15	29.09		65.0	
		Z	3.46	77.10	21.00		65.0	
10237-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	10.97	102.96	34.22	6.02	65.0	$\pm 9.6\%$
		Y	3.69	82.24	27.27		65.0	
		Z	2.71	73.97	22.20		65.0	
10238-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	44.06	124.81	37.86	6.02	65.0	$\pm 9.6\%$
		Y	7.51	94.54	29.66		65.0	
		Z	3.48	77.86	21.97		65.0	

10239-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	45.22	122.61	36.43	6.02	65.0	± 9.6 %
		Y	8.09	94.78	28.99		65.0	
		Z	3.41	76.93	20.94		65.0	
10240-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	10.93	102.89	34.20	6.02	65.0	± 9.6 %
		Y	3.69	82.22	27.26		65.0	
		Z	2.70	73.95	22.20		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	7.96	83.41	27.14	6.98	65.0	± 9.6 %
		Y	6.06	80.27	25.96		65.0	
		Z	5.23	76.45	23.46		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	7.64	82.53	26.70	6.98	65.0	± 9.6 %
		Y	5.62	78.66	25.19		65.0	
		Z	5.13	76.23	23.31		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	5.90	77.79	25.69	6.98	65.0	± 9.6 %
		Y	4.59	74.40	24.22		65.0	
		Z	4.42	73.16	22.83		65.0	
10244-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	6.81	80.04	20.38	3.98	65.0	± 9.6 %
		Y	3.08	68.96	14.04		65.0	
		Z	2.39	65.02	11.41		65.0	
10245-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	6.37	78.66	19.78	3.98	65.0	± 9.6 %
		Y	2.93	68.04	13.53		65.0	
		Z	2.37	64.68	11.18		65.0	
10246-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	9.78	90.51	24.65	3.98	65.0	± 9.6 %
		Y	3.08	72.86	16.24		65.0	
		Z	2.31	67.91	13.65		65.0	
10247-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	5.30	76.98	20.35	3.98	65.0	± 9.6 %
		Y	3.24	69.99	15.81		65.0	
		Z	2.91	67.60	14.25		65.0	
10248-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	5.14	75.84	19.84	3.98	65.0	± 9.6 %
		Y	3.13	68.99	15.31		65.0	
		Z	2.89	67.06	13.97		65.0	
10249-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	11.37	94.18	27.10	3.98	65.0	± 9.6 %
		Y	5.75	83.36	22.14		65.0	
		Z	3.43	73.61	17.72		65.0	
10250-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	5.86	78.36	22.81	3.98	65.0	± 9.6 %
		Y	4.45	74.93	20.78		65.0	
		Z	4.01	71.92	18.78		65.0	
10251-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	5.49	75.73	21.27	3.98	65.0	± 9.6 %
		Y	4.06	71.83	18.86		65.0	
		Z	3.81	69.88	17.38		65.0	
10252-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	8.57	88.42	26.34	3.98	65.0	± 9.6 %
		Y	5.71	82.90	23.92		65.0	
		Z	4.26	75.99	20.41		65.0	
10253-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	5.45	74.23	21.01	3.98	65.0	± 9.6 %
		Y	4.27	71.17	19.23		65.0	
		Z	4.13	69.83	18.01		65.0	
10254-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	5.77	75.07	21.68	3.98	65.0	± 9.6 %
		Y	4.58	72.23	20.04		65.0	
		Z	4.41	70.75	18.75		65.0	

10255-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	6.71	81.15	23.81	3.98	65.0	$\pm 9.6 \%$
		Y	4.96	77.39	22.12		65.0	
		Z	4.37	73.85	19.90		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	4.66	73.77	16.60	3.98	65.0	$\pm 9.6 \%$
		Y	1.91	63.05	9.53		65.0	
		Z	1.73	61.81	8.33		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	4.29	72.19	15.81	3.98	65.0	$\pm 9.6 \%$
		Y	1.87	62.57	9.13		65.0	
		Z	1.72	61.55	8.07		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	5.77	80.94	20.16	3.98	65.0	$\pm 9.6 \%$
		Y	1.65	64.10	10.58		65.0	
		Z	1.60	63.22	9.93		65.0	
10259-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	5.56	77.62	21.29	3.98	65.0	$\pm 9.6 \%$
		Y	3.79	72.33	17.85		65.0	
		Z	3.34	69.40	15.99		65.0	
10260-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	5.51	77.02	21.02	3.98	65.0	$\pm 9.6 \%$
		Y	3.78	71.85	17.60		65.0	
		Z	3.38	69.18	15.86		65.0	
10261-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	8.86	89.53	26.06	3.98	65.0	$\pm 9.6 \%$
		Y	5.39	82.13	22.45		65.0	
		Z	3.66	74.13	18.59		65.0	
10262-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	5.85	78.31	22.76	3.98	65.0	$\pm 9.6 \%$
		Y	4.43	74.82	20.70		65.0	
		Z	4.00	71.84	18.72		65.0	
10263-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.48	75.69	21.26	3.98	65.0	$\pm 9.6 \%$
		Y	4.05	71.81	18.86		65.0	
		Z	3.81	69.86	17.38		65.0	
10264-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	8.45	88.12	26.21	3.98	65.0	$\pm 9.6 \%$
		Y	5.62	82.56	23.76		65.0	
		Z	4.22	75.80	20.30		65.0	
10265-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.58	74.84	21.33	3.98	65.0	$\pm 9.6 \%$
		Y	4.31	71.48	19.54		65.0	
		Z	4.17	70.10	18.29		65.0	
10266-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	5.92	75.72	22.06	3.98	65.0	$\pm 9.6 \%$
		Y	4.67	72.72	20.49		65.0	
		Z	4.50	71.19	19.17		65.0	
10267-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	7.25	82.36	24.06	3.98	65.0	$\pm 9.6 \%$
		Y	5.25	78.25	22.36		65.0	
		Z	4.56	74.46	20.05		65.0	
10268-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.09	74.15	21.38	3.98	65.0	$\pm 9.6 \%$
		Y	4.91	71.34	20.00		65.0	
		Z	4.85	70.45	19.01		65.0	
10269-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	6.05	73.61	21.18	3.98	65.0	$\pm 9.6 \%$
		Y	4.94	70.97	19.84		65.0	
		Z	4.89	70.19	18.91		65.0	
10270-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.50	77.53	22.19	3.98	65.0	$\pm 9.6 \%$
		Y	5.09	74.56	20.95		65.0	
		Z	4.80	72.58	19.43		65.0	

10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.69	67.85	16.10	0.00	150.0	$\pm 9.6\%$
		Y	2.43	67.48	15.13		150.0	
		Z	2.37	66.48	14.46		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.93	71.87	17.82	0.00	150.0	$\pm 9.6\%$
		Y	1.61	70.34	16.31		150.0	
		Z	1.41	67.03	14.59		150.0	
10277-CAA	PHS (QPSK)	X	1.55	60.36	5.79	9.03	50.0	$\pm 9.6\%$
		Y	1.19	58.00	3.22		50.0	
		Z	1.19	58.34	3.50		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	8.18	81.96	18.94	9.03	50.0	$\pm 9.6\%$
		Y	2.23	63.61	9.17		50.0	
		Z	2.17	63.21	8.83		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	8.52	82.49	19.21	9.03	50.0	$\pm 9.6\%$
		Y	2.29	63.84	9.37		50.0	
		Z	2.22	63.40	9.01		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	2.49	76.91	17.23	0.00	150.0	$\pm 9.6\%$
		Y	0.61	61.72	7.72		150.0	
		Z	0.74	62.98	9.09		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	1.43	74.29	16.20	0.00	150.0	$\pm 9.6\%$
		Y	0.37	60.19	6.37		150.0	
		Z	0.50	61.95	8.36		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	11.21	103.35	25.88	0.00	150.0	$\pm 9.6\%$
		Y	0.44	62.36	7.89		150.0	
		Z	0.62	64.80	10.23		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	100.00	136.90	34.56	0.00	150.0	$\pm 9.6\%$
		Y	1.36	72.74	12.86		150.0	
		Z	1.08	70.91	13.43		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	36.72	113.12	33.04	9.03	50.0	$\pm 9.6\%$
		Y	100.00	117.40	30.34		50.0	
		Z	18.29	92.71	23.63		50.0	
10297-AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	3.00	71.94	18.02	0.00	150.0	$\pm 9.6\%$
		Y	2.61	70.85	17.34		150.0	
		Z	2.40	68.73	16.08		150.0	
10298-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.96	71.97	16.03	0.00	150.0	$\pm 9.6\%$
		Y	0.87	62.93	9.42		150.0	
		Z	0.95	63.23	9.98		150.0	
10299-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	2.95	71.95	15.07	0.00	150.0	$\pm 9.6\%$
		Y	1.22	62.64	8.78		150.0	
		Z	1.11	61.60	7.96		150.0	
10300-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.84	65.12	11.15	0.00	150.0	$\pm 9.6\%$
		Y	0.98	60.32	6.73		150.0	
		Z	0.95	60.03	6.39		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.75	66.04	17.88	4.17	50.0	$\pm 9.6\%$
		Y	4.37	65.92	17.44		50.0	
		Z	4.09	64.54	16.57		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.20	66.56	18.56	4.96	50.0	$\pm 9.6\%$
		Y	4.73	65.90	17.82		50.0	
		Z	4.58	65.24	17.35		50.0	

10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.93	66.16	18.37	4.96	50.0	$\pm 9.6\%$
		Y	4.53	66.02	17.92		50.0	
		Z	4.34	64.84	17.10		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.77	66.10	17.89	4.17	50.0	$\pm 9.6\%$
		Y	4.33	65.57	17.19		50.0	
		Z	4.19	64.88	16.70		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.26	67.64	19.75	6.02	35.0	$\pm 9.6\%$
		Y	3.85	66.93	18.26		35.0	
		Z	3.54	64.98	17.22		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.62	66.78	19.42	6.02	35.0	$\pm 9.6\%$
		Y	4.22	66.33	18.38		35.0	
		Z	3.98	64.89	17.51		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.50	66.86	19.35	6.02	35.0	$\pm 9.6\%$
		Y	4.09	66.28	18.23		35.0	
		Z	3.85	64.77	17.34		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.48	67.08	19.51	6.02	35.0	$\pm 9.6\%$
		Y	4.07	66.49	18.38		35.0	
		Z	3.81	64.90	17.46		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.67	66.99	19.57	6.02	35.0	$\pm 9.6\%$
		Y	4.23	66.38	18.47		35.0	
		Z	3.99	64.92	17.59		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.56	66.82	19.39	6.02	35.0	$\pm 9.6\%$
		Y	4.17	66.39	18.37		35.0	
		Z	3.93	64.89	17.48		35.0	
10311-AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.37	70.90	17.49	0.00	150.0	$\pm 9.6\%$
		Y	2.96	69.72	16.88		150.0	
		Z	2.76	68.01	15.80		150.0	
10313-AAA	iDEN 1:3	X	12.92	95.50	24.61	6.99	70.0	$\pm 9.6\%$
		Y	2.79	75.33	17.37		70.0	
		Z	1.89	68.76	14.38		70.0	
10314-AAA	iDEN 1:6	X	29.11	117.11	34.35	10.00	30.0	$\pm 9.6\%$
		Y	23.55	110.51	31.28		30.0	
		Z	3.32	77.50	20.87		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.12	65.39	16.76	0.17	150.0	$\pm 9.6\%$
		Y	0.99	64.60	15.94		150.0	
		Z	1.02	63.09	14.44		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.57	67.05	16.70	0.17	150.0	$\pm 9.6\%$
		Y	4.29	66.89	16.47		150.0	
		Z	4.27	66.58	16.00		150.0	
10317-AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.57	67.05	16.70	0.17	150.0	$\pm 9.6\%$
		Y	4.29	66.89	16.47		150.0	
		Z	4.27	66.58	16.00		150.0	
10400-AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.67	67.36	16.66	0.00	150.0	$\pm 9.6\%$
		Y	4.34	67.13	16.44		150.0	
		Z	4.33	66.89	16.04		150.0	
10401-AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.40	67.51	16.81	0.00	150.0	$\pm 9.6\%$
		Y	5.01	66.77	16.42		150.0	
		Z	5.00	66.67	16.08		150.0	

10402-AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.63	67.66	16.74	0.00	150.0	$\pm 9.6\%$
		Y	5.39	67.40	16.64		150.0	
		Z	5.38	67.29	16.30		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	2.49	76.91	17.23	0.00	115.0	$\pm 9.6\%$
		Y	0.61	61.72	7.72		115.0	
		Z	0.74	62.98	9.09		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	2.49	76.91	17.23	0.00	115.0	$\pm 9.6\%$
		Y	0.61	61.72	7.72		115.0	
		Z	0.74	62.98	9.09		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	124.66	31.41	0.00	100.0	$\pm 9.6\%$
		Y	100.00	124.13	30.20		100.0	
		Z	28.32	101.34	22.91		100.0	
10410-AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	133.35	35.02	3.23	80.0	$\pm 9.6\%$
		Y	100.00	140.53	37.12		80.0	
		Z	1.93	74.89	16.58		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.05	64.55	16.13	0.00	150.0	$\pm 9.6\%$
		Y	0.94	63.97	15.39		150.0	
		Z	0.98	62.74	14.12		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.52	67.02	16.60	0.00	150.0	$\pm 9.6\%$
		Y	4.25	66.91	16.41		150.0	
		Z	4.25	66.69	16.02		150.0	
10417-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.52	67.02	16.60	0.00	150.0	$\pm 9.6\%$
		Y	4.25	66.91	16.41		150.0	
		Z	4.25	66.69	16.02		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	X	4.52	67.23	16.64	0.00	150.0	$\pm 9.6\%$
		Y	4.25	67.16	16.49		150.0	
		Z	4.24	66.90	16.08		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	X	4.53	67.16	16.63	0.00	150.0	$\pm 9.6\%$
		Y	4.27	67.07	16.47		150.0	
		Z	4.26	66.83	16.06		150.0	
10422-AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.64	67.12	16.63	0.00	150.0	$\pm 9.6\%$
		Y	4.37	67.02	16.47		150.0	
		Z	4.36	66.81	16.08		150.0	
10423-AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.80	67.42	16.73	0.00	150.0	$\pm 9.6\%$
		Y	4.48	67.27	16.55		150.0	
		Z	4.48	67.05	16.16		150.0	
10424-AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.72	67.38	16.72	0.00	150.0	$\pm 9.6\%$
		Y	4.42	67.22	16.53		150.0	
		Z	4.41	66.99	16.13		150.0	
10425-AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.33	67.58	16.85	0.00	150.0	$\pm 9.6\%$
		Y	5.06	67.34	16.73		150.0	
		Z	5.03	67.11	16.33		150.0	
10426-AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.35	67.68	16.90	0.00	150.0	$\pm 9.6\%$
		Y	5.12	67.57	16.84		150.0	
		Z	5.06	67.23	16.38		150.0	

10427-AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.35	67.58	16.84	0.00	150.0	$\pm 9.6\%$
		Y	5.05	67.24	16.67		150.0	
		Z	5.03	67.04	16.28		150.0	
10430-AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.37	72.10	18.83	0.00	150.0	$\pm 9.6\%$
		Y	4.47	74.18	19.05		150.0	
		Z	4.08	72.11	17.90		150.0	
10431-AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.20	67.76	16.65	0.00	150.0	$\pm 9.6\%$
		Y	3.86	67.64	16.25		150.0	
		Z	3.83	67.21	15.78		150.0	
10432-AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.50	67.51	16.69	0.00	150.0	$\pm 9.6\%$
		Y	4.18	67.39	16.45		150.0	
		Z	4.17	67.08	16.03		150.0	
10433-AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.74	67.41	16.73	0.00	150.0	$\pm 9.6\%$
		Y	4.44	67.26	16.55		150.0	
		Z	4.43	67.03	16.16		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.56	73.29	18.88	0.00	150.0	$\pm 9.6\%$
		Y	4.60	74.94	18.61		150.0	
		Z	4.09	72.57	17.43		150.0	
10435-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	133.09	34.90	3.23	80.0	$\pm 9.6\%$
		Y	100.00	140.15	36.94		80.0	
		Z	1.87	74.40	16.34		80.0	
10447-AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.52	68.05	16.00	0.00	150.0	$\pm 9.6\%$
		Y	3.05	67.23	14.72		150.0	
		Z	3.01	66.67	14.29		150.0	
10448-AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	4.05	67.56	16.52	0.00	150.0	$\pm 9.6\%$
		Y	3.73	67.45	16.13		150.0	
		Z	3.70	67.02	15.66		150.0	
10449-AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.32	67.35	16.60	0.00	150.0	$\pm 9.6\%$
		Y	4.03	67.22	16.36		150.0	
		Z	4.02	66.91	15.93		150.0	
10450-AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.51	67.20	16.60	0.00	150.0	$\pm 9.6\%$
		Y	4.25	67.04	16.41		150.0	
		Z	4.24	66.81	16.01		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.41	68.26	15.56	0.00	150.0	$\pm 9.6\%$
		Y	2.78	66.55	13.62		150.0	
		Z	2.74	66.10	13.32		150.0	
10456-AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.23	68.13	16.99	0.00	150.0	$\pm 9.6\%$
		Y	6.06	67.94	16.93		150.0	
		Z	5.99	67.72	16.54		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.80	65.66	16.32	0.00	150.0	$\pm 9.6\%$
		Y	3.64	65.71	16.17		150.0	
		Z	3.65	65.53	15.76		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	4.19	72.59	18.20	0.00	150.0	$\pm 9.6\%$
		Y	3.44	70.63	15.88		150.0	
		Z	3.25	69.44	15.28		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	5.05	68.97	18.39	0.00	150.0	$\pm 9.6\%$
		Y	4.78	69.64	17.90		150.0	
		Z	4.61	68.72	17.22		150.0	

10460-AAA	UMTS-FDD (WCDMA, AMR)	X	1.38	77.31	21.02	0.00	150.0	$\pm 9.6\%$
		Y	1.15	75.32	18.99		150.0	
		Z	0.79	66.71	14.85		150.0	
10461-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	141.33	38.66	3.29	80.0	$\pm 9.6\%$
		Y	100.00	148.68	40.83		80.0	
		Z	1.05	68.19	14.98		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	112.90	25.54	3.23	80.0	$\pm 9.6\%$
		Y	100.00	105.38	21.47		80.0	
		Z	0.58	60.00	6.71		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	106.35	22.57	3.23	80.0	$\pm 9.6\%$
		Y	0.58	60.00	7.34		80.0	
		Z	0.29	55.62	3.67		80.0	
10464-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	138.78	37.26	3.23	80.0	$\pm 9.6\%$
		Y	100.00	145.19	38.97		80.0	
		Z	0.84	65.53	13.12		80.0	
10465-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	111.89	25.08	3.23	80.0	$\pm 9.6\%$
		Y	1.12	66.09	10.88		80.0	
		Z	0.58	60.00	6.63		80.0	
10466-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.47	22.18	3.23	80.0	$\pm 9.6\%$
		Y	0.59	60.00	7.28		80.0	
		Z	0.62	60.00	5.90		80.0	
10467-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	139.20	37.44	3.23	80.0	$\pm 9.6\%$
		Y	100.00	145.91	39.28		80.0	
		Z	0.86	65.95	13.36		80.0	
10468-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	112.24	25.24	3.23	80.0	$\pm 9.6\%$
		Y	1.51	68.80	11.95		80.0	
		Z	0.58	60.00	6.66		80.0	
10469-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.51	22.19	3.23	80.0	$\pm 9.6\%$
		Y	0.58	60.00	7.28		80.0	
		Z	0.62	60.00	5.90		80.0	
10470-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	139.29	37.47	3.23	80.0	$\pm 9.6\%$
		Y	100.00	146.03	39.32		80.0	
		Z	0.86	65.94	13.35		80.0	
10471-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	112.14	25.19	3.23	80.0	$\pm 9.6\%$
		Y	1.42	68.21	11.71		80.0	
		Z	0.58	60.00	6.64		80.0	
10472-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.38	22.13	3.23	80.0	$\pm 9.6\%$
		Y	0.58	60.00	7.26		80.0	
		Z	0.62	60.00	5.88		80.0	
10473-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	139.25	37.45	3.23	80.0	$\pm 9.6\%$
		Y	100.00	145.99	39.30		80.0	
		Z	0.85	65.91	13.34		80.0	
10474-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	112.15	25.19	3.23	80.0	$\pm 9.6\%$
		Y	1.38	67.99	11.63		80.0	
		Z	0.58	60.00	6.64		80.0	
10475-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.41	22.14	3.23	80.0	$\pm 9.6\%$
		Y	0.58	60.00	7.26		80.0	
		Z	0.62	60.00	5.88		80.0	

10477-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	111.83	25.04	3.23	80.0	$\pm 9.6\%$
		Y	1.12	66.05	10.84		80.0	
		Z	0.58	60.00	6.61		80.0	
10478-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.29	22.09	3.23	80.0	$\pm 9.6\%$
		Y	0.58	60.00	7.25		80.0	
		Z	0.62	60.00	5.86		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	131.47	36.03	3.23	80.0	$\pm 9.6\%$
		Y	100.00	133.85	36.04		80.0	
		Z	2.59	74.04	17.62		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	118.25	29.83	3.23	80.0	$\pm 9.6\%$
		Y	100.00	114.82	27.22		80.0	
		Z	1.46	64.13	11.07		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	115.63	28.54	3.23	80.0	$\pm 9.6\%$
		Y	100.00	110.65	25.24		80.0	
		Z	1.18	61.71	9.46		80.0	
10482-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	8.79	89.83	23.47	2.23	80.0	$\pm 9.6\%$
		Y	1.73	67.69	13.23		80.0	
		Z	1.10	61.75	10.28		80.0	
10483-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	10.12	86.17	21.31	2.23	80.0	$\pm 9.6\%$
		Y	1.79	64.61	11.19		80.0	
		Z	1.19	60.00	8.30		80.0	
10484-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	7.67	82.22	20.04	2.23	80.0	$\pm 9.6\%$
		Y	1.64	63.35	10.58		80.0	
		Z	1.22	60.00	8.29		80.0	
10485-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.22	85.94	23.66	2.23	80.0	$\pm 9.6\%$
		Y	4.22	80.39	20.24		80.0	
		Z	1.70	66.32	14.15		80.0	
10486-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.24	75.38	18.95	2.23	80.0	$\pm 9.6\%$
		Y	2.24	67.28	13.89		80.0	
		Z	1.69	63.02	11.59		80.0	
10487-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.06	74.32	18.50	2.23	80.0	$\pm 9.6\%$
		Y	2.17	66.44	13.47		80.0	
		Z	1.70	62.76	11.41		80.0	
10488-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.49	78.56	21.91	2.23	80.0	$\pm 9.6\%$
		Y	3.36	75.61	20.31		80.0	
		Z	2.26	67.84	16.31		80.0	
10489-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.73	71.82	19.01	2.23	80.0	$\pm 9.6\%$
		Y	3.07	70.26	17.69		80.0	
		Z	2.50	66.09	15.22		80.0	
10490-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.78	71.41	18.82	2.23	80.0	$\pm 9.6\%$
		Y	3.12	69.88	17.50		80.0	
		Z	2.58	66.02	15.17		80.0	
10491-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.22	74.55	20.40	2.23	80.0	$\pm 9.6\%$
		Y	3.28	72.04	19.15		80.0	
		Z	2.64	67.39	16.42		80.0	
10492-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.88	69.90	18.48	2.23	80.0	$\pm 9.6\%$
		Y	3.27	68.53	17.52		80.0	
		Z	2.92	65.96	15.74		80.0	

10493-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.92	69.66	18.37	2.23	80.0	$\pm 9.6\%$
		Y	3.31	68.32	17.41		80.0	
		Z	2.98	65.89	15.70		80.0	
10494-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.83	77.03	21.23	2.23	80.0	$\pm 9.6\%$
		Y	3.62	73.79	19.81		80.0	
		Z	2.77	68.33	16.78		80.0	
10495-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.92	70.31	18.72	2.23	80.0	$\pm 9.6\%$
		Y	3.29	68.74	17.78		80.0	
		Z	2.94	66.14	15.96		80.0	
10496-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.97	69.85	18.53	2.23	80.0	$\pm 9.6\%$
		Y	3.35	68.43	17.65		80.0	
		Z	3.03	66.06	15.95		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.80	81.90	19.36	2.23	80.0	$\pm 9.6\%$
		Y	0.84	60.00	7.66		80.0	
		Z	0.88	60.00	7.71		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.60	62.99	10.51	2.23	80.0	$\pm 9.6\%$
		Y	1.04	60.00	6.28		80.0	
		Z	1.06	60.00	6.38		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.47	61.85	9.76	2.23	80.0	$\pm 9.6\%$
		Y	1.06	60.00	6.10		80.0	
		Z	1.08	60.00	6.21		80.0	
10500-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.02	81.67	22.56	2.23	80.0	$\pm 9.6\%$
		Y	3.72	78.19	20.22		80.0	
		Z	1.93	67.09	15.09		80.0	
10501-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.99	73.87	18.94	2.23	80.0	$\pm 9.6\%$
		Y	2.79	69.67	15.87		80.0	
		Z	2.05	64.65	13.18		80.0	
10502-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.01	73.50	18.70	2.23	80.0	$\pm 9.6\%$
		Y	2.77	69.14	15.53		80.0	
		Z	2.08	64.49	13.01		80.0	
10503-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.42	78.28	21.78	2.23	80.0	$\pm 9.6\%$
		Y	3.29	75.28	20.16		80.0	
		Z	2.23	67.68	16.21		80.0	
10504-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.71	71.71	18.95	2.23	80.0	$\pm 9.6\%$
		Y	3.05	70.10	17.60		80.0	
		Z	2.49	66.00	15.15		80.0	
10505-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.76	71.31	18.76	2.23	80.0	$\pm 9.6\%$
		Y	3.09	69.74	17.41		80.0	
		Z	2.56	65.93	15.11		80.0	
10506-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.78	76.84	21.14	2.23	80.0	$\pm 9.6\%$
		Y	3.58	73.59	19.71		80.0	
		Z	2.75	68.21	16.72		80.0	
10507-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.90	70.25	18.68	2.23	80.0	$\pm 9.6\%$
		Y	3.27	68.67	17.73		80.0	
		Z	2.93	66.09	15.93		80.0	

10508-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.95	69.78	18.49	2.23	80.0	$\pm 9.6\%$
		Y	3.34	68.34	17.59		80.0	
		Z	3.03	65.99	15.91		80.0	
10509-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.79	73.94	19.90	2.23	80.0	$\pm 9.6\%$
		Y	3.82	71.41	18.81		80.0	
		Z	3.24	67.91	16.65		80.0	
10510-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.31	69.40	18.36	2.23	80.0	$\pm 9.6\%$
		Y	3.67	67.84	17.55		80.0	
		Z	3.43	66.09	16.17		80.0	
10511-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.34	69.03	18.22	2.23	80.0	$\pm 9.6\%$
		Y	3.74	67.62	17.47		80.0	
		Z	3.51	66.01	16.16		80.0	
10512-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.32	76.60	20.83	2.23	80.0	$\pm 9.6\%$
		Y	4.01	73.10	19.38		80.0	
		Z	3.23	68.69	16.86		80.0	
10513-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.22	69.78	18.55	2.23	80.0	$\pm 9.6\%$
		Y	3.57	67.99	17.66		80.0	
		Z	3.31	66.12	16.20		80.0	
10514-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.21	69.19	18.32	2.23	80.0	$\pm 9.6\%$
		Y	3.61	67.58	17.50		80.0	
		Z	3.38	65.91	16.14		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	1.02	64.92	16.31	0.00	150.0	$\pm 9.6\%$
		Y	0.91	64.28	15.53		150.0	
		Z	0.94	62.87	14.14		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	2.93	102.46	30.60	0.00	150.0	$\pm 9.6\%$
		Y	2.68	98.97	27.33		150.0	
		Z	0.51	67.38	15.40		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.94	68.96	18.15	0.00	150.0	$\pm 9.6\%$
		Y	0.80	67.69	16.88		150.0	
		Z	0.77	64.18	14.46		150.0	
10518-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.51	67.12	16.59	0.00	150.0	$\pm 9.6\%$
		Y	4.25	67.04	16.42		150.0	
		Z	4.24	66.81	16.01		150.0	
10519-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.68	67.32	16.68	0.00	150.0	$\pm 9.6\%$
		Y	4.38	67.19	16.49		150.0	
		Z	4.37	66.95	16.09		150.0	
10520-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.54	67.29	16.62	0.00	150.0	$\pm 9.6\%$
		Y	4.24	67.12	16.42		150.0	
		Z	4.23	66.87	16.00		150.0	
10521-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.47	67.29	16.61	0.00	150.0	$\pm 9.6\%$
		Y	4.17	67.07	16.39		150.0	
		Z	4.16	66.82	15.97		150.0	
10522-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.54	67.42	16.71	0.00	150.0	$\pm 9.6\%$
		Y	4.21	67.17	16.46		150.0	
		Z	4.20	66.89	16.04		150.0	

10523-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.43	67.32	16.59	0.00	150.0	$\pm 9.6 \%$
		Y	4.17	67.29	16.45		150.0	
		Z	4.16	67.00	16.03		150.0	
10524-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.48	67.34	16.68	0.00	150.0	$\pm 9.6 \%$
		Y	4.17	67.19	16.50		150.0	
		Z	4.16	66.91	16.07		150.0	
10525-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.49	66.40	16.28	0.00	150.0	$\pm 9.6 \%$
		Y	4.23	66.32	16.13		150.0	
		Z	4.21	66.07	15.72		150.0	
10526-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.64	66.74	16.41	0.00	150.0	$\pm 9.6 \%$
		Y	4.34	66.57	16.24		150.0	
		Z	4.31	66.30	15.81		150.0	
10527-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.57	66.72	16.36	0.00	150.0	$\pm 9.6 \%$
		Y	4.27	66.55	16.18		150.0	
		Z	4.25	66.27	15.75		150.0	
10528-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.58	66.73	16.39	0.00	150.0	$\pm 9.6 \%$
		Y	4.29	66.57	16.21		150.0	
		Z	4.26	66.29	15.79		150.0	
10529-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.58	66.73	16.39	0.00	150.0	$\pm 9.6 \%$
		Y	4.29	66.57	16.21		150.0	
		Z	4.26	66.29	15.79		150.0	
10531-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.56	66.82	16.40	0.00	150.0	$\pm 9.6 \%$
		Y	4.24	66.56	16.18		150.0	
		Z	4.22	66.27	15.74		150.0	
10532-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.43	66.68	16.34	0.00	150.0	$\pm 9.6 \%$
		Y	4.13	66.43	16.12		150.0	
		Z	4.11	66.14	15.68		150.0	
10533-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.59	66.80	16.39	0.00	150.0	$\pm 9.6 \%$
		Y	4.29	66.66	16.22		150.0	
		Z	4.26	66.37	15.79		150.0	
10534-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.12	66.70	16.39	0.00	150.0	$\pm 9.6 \%$
		Y	4.86	66.45	16.27		150.0	
		Z	4.84	66.26	15.88		150.0	
10535-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.19	66.90	16.48	0.00	150.0	$\pm 9.6 \%$
		Y	4.90	66.57	16.33		150.0	
		Z	4.86	66.35	15.93		150.0	
10536-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.06	66.87	16.45	0.00	150.0	$\pm 9.6 \%$
		Y	4.79	66.55	16.29		150.0	
		Z	4.76	66.36	15.91		150.0	
10537-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.11	66.81	16.42	0.00	150.0	$\pm 9.6 \%$
		Y	4.88	66.66	16.35		150.0	
		Z	4.84	66.41	15.94		150.0	
10538-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.19	66.80	16.46	0.00	150.0	$\pm 9.6 \%$
		Y	4.92	66.52	16.32		150.0	
		Z	4.89	66.32	15.93		150.0	
10540-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.13	66.80	16.48	0.00	150.0	$\pm 9.6 \%$
		Y	4.85	66.47	16.32		150.0	
		Z	4.82	66.28	15.93		150.0	

10541-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.10	66.68	16.40	0.00	150.0	$\pm 9.6 \%$
		Y	4.84	66.40	16.26		150.0	
		Z	4.82	66.24	15.89		150.0	
10542-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.26	66.75	16.45	0.00	150.0	$\pm 9.6 \%$
		Y	4.99	66.50	16.32		150.0	
		Z	4.96	66.33	15.95		150.0	
10543-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.32	66.76	16.48	0.00	150.0	$\pm 9.6 \%$
		Y	5.08	66.66	16.44		150.0	
		Z	5.04	66.44	16.04		150.0	
10544-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.44	66.76	16.36	0.00	150.0	$\pm 9.6 \%$
		Y	5.22	66.43	16.22		150.0	
		Z	5.20	66.33	15.88		150.0	
10545-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.64	67.23	16.54	0.00	150.0	$\pm 9.6 \%$
		Y	5.43	67.01	16.47		150.0	
		Z	5.36	66.74	16.05		150.0	
10546-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.49	66.94	16.41	0.00	150.0	$\pm 9.6 \%$
		Y	5.25	66.55	16.25		150.0	
		Z	5.22	66.43	15.91		150.0	
10547-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.57	67.00	16.43	0.00	150.0	$\pm 9.6 \%$
		Y	5.39	66.88	16.41		150.0	
		Z	5.32	66.61	15.99		150.0	
10548-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.80	67.92	16.87	0.00	150.0	$\pm 9.6 \%$
		Y	5.49	67.39	16.64		150.0	
		Z	5.40	67.04	16.19		150.0	
10550-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.54	67.04	16.48	0.00	150.0	$\pm 9.6 \%$
		Y	5.38	67.02	16.50		150.0	
		Z	5.30	66.69	16.05		150.0	
10551-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.52	67.00	16.42	0.00	150.0	$\pm 9.6 \%$
		Y	5.22	66.47	16.19		150.0	
		Z	5.21	66.38	15.86		150.0	
10552-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.45	66.84	16.34	0.00	150.0	$\pm 9.6 \%$
		Y	5.23	66.57	16.23		150.0	
		Z	5.21	66.47	15.90		150.0	
10553-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.52	66.83	16.37	0.00	150.0	$\pm 9.6 \%$
		Y	5.27	66.48	16.22		150.0	
		Z	5.25	66.39	15.89		150.0	
10554-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.86	67.10	16.43	0.00	150.0	$\pm 9.6 \%$
		Y	5.67	66.76	16.30		150.0	
		Z	5.63	66.66	15.97		150.0	
10555-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.98	67.40	16.56	0.00	150.0	$\pm 9.6 \%$
		Y	5.75	66.99	16.40		150.0	
		Z	5.70	66.83	16.04		150.0	
10556-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.01	67.47	16.58	0.00	150.0	$\pm 9.6 \%$
		Y	5.83	67.21	16.50		150.0	
		Z	5.75	66.98	16.10		150.0	
10557-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.96	67.33	16.53	0.00	150.0	$\pm 9.6 \%$
		Y	5.74	66.95	16.39		150.0	
		Z	5.70	66.85	16.06		150.0	

10558-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.01	67.49	16.63	0.00	150.0	$\pm 9.6\%$
		Y	5.72	66.92	16.39		150.0	
		Z	5.69	66.82	16.06		150.0	
10560-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.00	67.33	16.59	0.00	150.0	$\pm 9.6\%$
		Y	5.75	66.89	16.41		150.0	
		Z	5.72	66.81	16.09		150.0	
10561-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.93	67.33	16.62	0.00	150.0	$\pm 9.6\%$
		Y	5.70	66.91	16.45		150.0	
		Z	5.66	66.79	16.11		150.0	
10562-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.02	67.63	16.77	0.00	150.0	$\pm 9.6\%$
		Y	5.73	67.02	16.51		150.0	
		Z	5.69	66.91	16.17		150.0	
10563-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.11	67.54	16.69	0.00	150.0	$\pm 9.6\%$
		Y	5.86	67.10	16.52		150.0	
		Z	5.80	66.92	16.15		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.83	67.14	16.72	0.46	150.0	$\pm 9.6\%$
		Y	4.56	67.00	16.52		150.0	
		Z	4.55	66.81	16.14		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	5.05	67.55	17.02	0.46	150.0	$\pm 9.6\%$
		Y	4.74	67.42	16.85		150.0	
		Z	4.73	67.21	16.46		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.88	67.41	16.85	0.46	150.0	$\pm 9.6\%$
		Y	4.58	67.22	16.65		150.0	
		Z	4.57	67.00	16.25		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.91	67.80	17.21	0.46	150.0	$\pm 9.6\%$
		Y	4.62	67.67	17.07		150.0	
		Z	4.61	67.41	16.64		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.80	67.23	16.65	0.46	150.0	$\pm 9.6\%$
		Y	4.45	66.86	16.32		150.0	
		Z	4.44	66.64	15.93		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.89	67.96	17.31	0.46	150.0	$\pm 9.6\%$
		Y	4.63	68.00	17.26		150.0	
		Z	4.60	67.68	16.80		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.91	67.78	17.22	0.46	150.0	$\pm 9.6\%$
		Y	4.61	67.70	17.10		150.0	
		Z	4.59	67.42	16.66		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.19	65.93	17.12	0.46	130.0	$\pm 9.6\%$
		Y	1.03	64.76	16.11		130.0	
		Z	1.04	63.12	14.48		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.21	66.68	17.59	0.46	130.0	$\pm 9.6\%$
		Y	1.05	65.50	16.59		130.0	
		Z	1.05	63.55	14.78		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	100.00	163.98	45.73	0.46	130.0	$\pm 9.6\%$
		Y	100.00	159.03	42.70		130.0	
		Z	0.80	72.06	17.88		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.52	75.94	22.26	0.46	130.0	$\pm 9.6\%$
		Y	1.27	74.58	21.26		130.0	
		Z	1.02	67.35	16.93		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.61	66.95	16.79	0.46	130.0	$\pm 9.6\%$
		Y	4.33	66.78	16.56		130.0	
		Z	4.31	66.49	16.09		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.64	67.13	16.87	0.46	130.0	$\pm 9.6\%$
		Y	4.37	67.03	16.68		130.0	
		Z	4.34	66.72	16.19		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.83	67.39	17.02	0.46	130.0	$\pm 9.6\%$
		Y	4.52	67.25	16.81		130.0	
		Z	4.49	66.93	16.33		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.73	67.55	17.13	0.46	130.0	$\pm 9.6\%$
		Y	4.43	67.43	16.95		130.0	
		Z	4.40	67.07	16.44		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.49	66.83	16.45	0.46	130.0	$\pm 9.6\%$
		Y	4.16	66.46	16.10		130.0	
		Z	4.14	66.18	15.64		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.54	66.91	16.49	0.46	130.0	$\pm 9.6\%$
		Y	4.19	66.49	16.10		130.0	
		Z	4.16	66.19	15.63		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.63	67.63	17.10	0.46	130.0	$\pm 9.6\%$
		Y	4.35	67.57	16.97		130.0	
		Z	4.32	67.17	16.43		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.43	66.61	16.25	0.46	130.0	$\pm 9.6\%$
		Y	4.08	66.21	15.86		130.0	
		Z	4.07	65.94	15.41		130.0	
10583-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.61	66.95	16.79	0.46	130.0	$\pm 9.6\%$
		Y	4.33	66.78	16.56		130.0	
		Z	4.31	66.49	16.09		130.0	
10584-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.64	67.13	16.87	0.46	130.0	$\pm 9.6\%$
		Y	4.37	67.03	16.68		130.0	
		Z	4.34	66.72	16.19		130.0	
10585-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.83	67.39	17.02	0.46	130.0	$\pm 9.6\%$
		Y	4.52	67.25	16.81		130.0	
		Z	4.49	66.93	16.33		130.0	
10586-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.73	67.55	17.13	0.46	130.0	$\pm 9.6\%$
		Y	4.43	67.43	16.95		130.0	
		Z	4.40	67.07	16.44		130.0	
10587-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.49	66.83	16.45	0.46	130.0	$\pm 9.6\%$
		Y	4.16	66.46	16.10		130.0	
		Z	4.14	66.18	15.64		130.0	
10588-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.54	66.91	16.49	0.46	130.0	$\pm 9.6\%$
		Y	4.19	66.49	16.10		130.0	
		Z	4.16	66.19	15.63		130.0	
10589-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.63	67.63	17.10	0.46	130.0	$\pm 9.6\%$
		Y	4.35	67.57	16.97		130.0	
		Z	4.32	67.17	16.43		130.0	
10590-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.43	66.61	16.25	0.46	130.0	$\pm 9.6\%$
		Y	4.08	66.21	15.86		130.0	
		Z	4.07	65.94	15.41		130.0	

10591-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.76	66.98	16.88	0.46	130.0	$\pm 9.6\%$
		Y	4.49	66.88	16.70		130.0	
		Z	4.48	66.62	16.25		130.0	
10592-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.91	67.32	17.01	0.46	130.0	$\pm 9.6\%$
		Y	4.60	67.16	16.82		130.0	
		Z	4.58	66.88	16.36		130.0	
10593-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.83	67.22	16.89	0.46	130.0	$\pm 9.6\%$
		Y	4.52	67.02	16.67		130.0	
		Z	4.49	66.75	16.21		130.0	
10594-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.88	67.39	17.05	0.46	130.0	$\pm 9.6\%$
		Y	4.57	67.22	16.86		130.0	
		Z	4.55	66.93	16.38		130.0	
10595-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.85	67.36	16.95	0.46	130.0	$\pm 9.6\%$
		Y	4.54	67.21	16.77		130.0	
		Z	4.51	66.90	16.29		130.0	
10596-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.79	67.36	16.97	0.46	130.0	$\pm 9.6\%$
		Y	4.46	67.14	16.75		130.0	
		Z	4.44	66.83	16.26		130.0	
10597-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.74	67.25	16.84	0.46	130.0	$\pm 9.6\%$
		Y	4.42	66.99	16.58		130.0	
		Z	4.39	66.70	16.11		130.0	
10598-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.72	67.47	17.09	0.46	130.0	$\pm 9.6\%$
		Y	4.42	67.29	16.89		130.0	
		Z	4.40	66.96	16.39		130.0	
10599-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.44	67.44	17.06	0.46	130.0	$\pm 9.6\%$
		Y	5.23	67.40	17.02		130.0	
		Z	5.17	67.08	16.54		130.0	
10600-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.58	67.92	17.27	0.46	130.0	$\pm 9.6\%$
		Y	5.36	67.90	17.25		130.0	
		Z	5.23	67.33	16.64		130.0	
10601-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.46	67.64	17.15	0.46	130.0	$\pm 9.6\%$
		Y	5.25	67.64	17.14		130.0	
		Z	5.19	67.28	16.64		130.0	
10602-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.59	67.79	17.14	0.46	130.0	$\pm 9.6\%$
		Y	5.32	67.58	17.02		130.0	
		Z	5.23	67.13	16.48		130.0	
10603-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.65	68.04	17.40	0.46	130.0	$\pm 9.6\%$
		Y	5.35	67.77	17.26		130.0	
		Z	5.28	67.38	16.74		130.0	
10604-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.52	67.67	17.20	0.46	130.0	$\pm 9.6\%$
		Y	5.20	67.22	16.96		130.0	
		Z	5.15	66.92	16.48		130.0	
10605-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.58	67.84	17.29	0.46	130.0	$\pm 9.6\%$
		Y	5.30	67.57	17.14		130.0	
		Z	5.22	67.18	16.61		130.0	
10606-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.30	67.08	16.77	0.46	130.0	$\pm 9.6\%$
		Y	5.12	67.11	16.75		130.0	
		Z	5.05	66.75	16.25		130.0	

10607-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.62	66.38	16.55	0.46	130.0	$\pm 9.6\%$
		Y	4.36	66.29	16.39		130.0	
		Z	4.32	65.96	15.89		130.0	
10608-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.79	66.77	16.71	0.46	130.0	$\pm 9.6\%$
		Y	4.48	66.59	16.52		130.0	
		Z	4.44	66.24	16.02		130.0	
10609-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.69	66.62	16.55	0.46	130.0	$\pm 9.6\%$
		Y	4.38	66.42	16.33		130.0	
		Z	4.34	66.07	15.83		130.0	
10610-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.74	66.78	16.71	0.46	130.0	$\pm 9.6\%$
		Y	4.43	66.62	16.53		130.0	
		Z	4.39	66.25	16.01		130.0	
10611-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.65	66.59	16.56	0.46	130.0	$\pm 9.6\%$
		Y	4.34	66.38	16.35		130.0	
		Z	4.30	66.02	15.84		130.0	
10612-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.66	66.77	16.63	0.46	130.0	$\pm 9.6\%$
		Y	4.32	66.49	16.38		130.0	
		Z	4.28	66.10	15.86		130.0	
10613-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.65	66.61	16.49	0.46	130.0	$\pm 9.6\%$
		Y	4.31	66.27	16.20		130.0	
		Z	4.27	65.92	15.70		130.0	
10614-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.61	66.80	16.72	0.46	130.0	$\pm 9.6\%$
		Y	4.30	66.57	16.50		130.0	
		Z	4.26	66.18	15.97		130.0	
10615-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.65	66.44	16.35	0.46	130.0	$\pm 9.6\%$
		Y	4.33	66.19	16.09		130.0	
		Z	4.29	65.85	15.60		130.0	
10616-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.27	66.73	16.68	0.46	130.0	$\pm 9.6\%$
		Y	5.01	66.49	16.56		130.0	
		Z	4.96	66.22	16.10		130.0	
10617-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.35	66.96	16.78	0.46	130.0	$\pm 9.6\%$
		Y	5.05	66.62	16.60		130.0	
		Z	4.98	66.29	16.11		130.0	
10618-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.23	66.97	16.80	0.46	130.0	$\pm 9.6\%$
		Y	4.95	66.64	16.63		130.0	
		Z	4.90	66.35	16.15		130.0	
10619-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.24	66.75	16.62	0.46	130.0	$\pm 9.6\%$
		Y	5.02	66.64	16.56		130.0	
		Z	4.94	66.26	16.04		130.0	
10620-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.32	66.76	16.68	0.46	130.0	$\pm 9.6\%$
		Y	5.04	66.47	16.52		130.0	
		Z	4.99	66.18	16.05		130.0	
10621-AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.33	66.89	16.85	0.46	130.0	$\pm 9.6\%$
		Y	5.05	66.58	16.71		130.0	
		Z	5.01	66.34	16.25		130.0	
10622-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.35	67.10	16.96	0.46	130.0	$\pm 9.6\%$
		Y	5.04	66.69	16.76		130.0	
		Z	4.99	66.41	16.29		130.0	

10623-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.22	66.58	16.57	0.46	130.0	$\pm 9.6 \%$
		Y	4.94	66.25	16.38		130.0	
		Z	4.90	66.00	15.94		130.0	
10624-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.41	66.77	16.72	0.46	130.0	$\pm 9.6 \%$
		Y	5.13	66.51	16.58		130.0	
		Z	5.08	66.25	16.13		130.0	
10625-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.67	67.47	17.13	0.46	130.0	$\pm 9.6 \%$
		Y	5.24	66.76	16.78		130.0	
		Z	5.18	66.46	16.30		130.0	
10626-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.58	66.75	16.62	0.46	130.0	$\pm 9.6 \%$
		Y	5.35	66.42	16.47		130.0	
		Z	5.31	66.24	16.06		130.0	
10627-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.83	67.40	16.91	0.46	130.0	$\pm 9.6 \%$
		Y	5.63	67.24	16.86		130.0	
		Z	5.52	66.81	16.33		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.60	66.81	16.55	0.46	130.0	$\pm 9.6 \%$
		Y	5.34	66.39	16.35		130.0	
		Z	5.30	66.19	15.94		130.0	
10629-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.68	66.90	16.59	0.46	130.0	$\pm 9.6 \%$
		Y	5.54	66.91	16.62		130.0	
		Z	5.42	66.48	16.08		130.0	
10630-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.08	68.33	17.31	0.46	130.0	$\pm 9.6 \%$
		Y	5.70	67.61	16.97		130.0	
		Z	5.55	67.05	16.38		130.0	
10631-AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.97	68.08	17.36	0.46	130.0	$\pm 9.6 \%$
		Y	5.66	67.59	17.16		130.0	
		Z	5.57	67.23	16.66		130.0	
10632-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.80	67.45	17.07	0.46	130.0	$\pm 9.6 \%$
		Y	5.69	67.64	17.20		130.0	
		Z	5.55	67.10	16.61		130.0	
10633-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.66	67.00	16.67	0.46	130.0	$\pm 9.6 \%$
		Y	5.35	66.42	16.41		130.0	
		Z	5.31	66.26	16.01		130.0	
10634-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.64	67.00	16.73	0.46	130.0	$\pm 9.6 \%$
		Y	5.39	66.68	16.59		130.0	
		Z	5.35	66.50	16.18		130.0	
10635-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.52	66.33	16.14	0.46	130.0	$\pm 9.6 \%$
		Y	5.23	65.84	15.88		130.0	
		Z	5.20	65.70	15.50		130.0	
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.01	67.10	16.69	0.46	130.0	$\pm 9.6 \%$
		Y	5.81	66.78	16.56		130.0	
		Z	5.76	66.60	16.16		130.0	
10637-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.16	67.51	16.88	0.46	130.0	$\pm 9.6 \%$
		Y	5.94	67.13	16.72		130.0	
		Z	5.85	66.83	16.27		130.0	
10638-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.16	67.47	16.84	0.46	130.0	$\pm 9.6 \%$
		Y	5.99	67.25	16.76		130.0	
		Z	5.90	66.99	16.32		130.0	

10639-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.13	67.38	16.83	0.46	130.0	$\pm 9.6\%$
		Y	5.90	67.00	16.68		130.0	
		Z	5.84	66.81	16.27		130.0	
10640-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.13	67.41	16.79	0.46	130.0	$\pm 9.6\%$
		Y	5.83	66.79	16.51		130.0	
		Z	5.77	66.61	16.12		130.0	
10641-AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.20	67.37	16.80	0.46	130.0	$\pm 9.6\%$
		Y	5.99	67.07	16.68		130.0	
		Z	5.89	66.77	16.22		130.0	
10642-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.21	67.55	17.04	0.46	130.0	$\pm 9.6\%$
		Y	5.96	67.13	16.88		130.0	
		Z	5.91	66.95	16.48		130.0	
10643-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.07	67.29	16.82	0.46	130.0	$\pm 9.6\%$
		Y	5.82	66.83	16.61		130.0	
		Z	5.75	66.62	16.20		130.0	
10644-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.18	67.64	17.01	0.46	130.0	$\pm 9.6\%$
		Y	5.86	66.97	16.70		130.0	
		Z	5.80	66.78	16.30		130.0	
10645-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.32	67.71	17.01	0.46	130.0	$\pm 9.6\%$
		Y	6.02	67.15	16.76		130.0	
		Z	5.94	66.88	16.32		130.0	
10646-AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	29.01	129.72	45.71	9.30	60.0	$\pm 9.6\%$
		Y	5.69	90.29	32.95		60.0	
		Z	4.56	83.05	28.64		60.0	
10647-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	21.51	122.78	43.90	9.30	60.0	$\pm 9.6\%$
		Y	4.97	87.32	31.93		60.0	
		Z	4.08	80.83	27.85		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.81	66.86	12.34	0.00	150.0	$\pm 9.6\%$
		Y	0.34	60.00	5.68		150.0	
		Z	0.41	60.33	6.86		150.0	
10652-AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.65	68.11	17.48	2.23	80.0	$\pm 9.6\%$
		Y	3.21	67.42	16.62		80.0	
		Z	2.95	65.45	15.23		80.0	
10653-AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.08	66.78	17.31	2.23	80.0	$\pm 9.6\%$
		Y	3.68	66.09	16.72		80.0	
		Z	3.55	65.09	15.78		80.0	
10654-AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.05	66.29	17.25	2.23	80.0	$\pm 9.6\%$
		Y	3.70	65.54	16.72		80.0	
		Z	3.61	64.74	15.87		80.0	
10655-AAD	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.11	66.21	17.27	2.23	80.0	$\pm 9.6\%$
		Y	3.77	65.36	16.73		80.0	
		Z	3.69	64.66	15.92		80.0	
10658-AAA	Pulse Waveform (200Hz, 10%)	X	100.00	110.76	25.43	10.00	50.0	$\pm 9.6\%$
		Y	4.64	72.25	12.92		50.0	
		Z	3.17	68.15	11.10		50.0	
10659-AAA	Pulse Waveform (200Hz, 20%)	X	100.00	113.44	25.61	6.99	60.0	$\pm 9.6\%$
		Y	100.00	99.40	18.82		60.0	
		Z	2.21	68.18	10.16		60.0	

10660-AAA	Pulse Waveform (200Hz, 40%)	X	100.00	123.86	28.72	3.98	80.0	± 9.6 %
		Y	100.00	91.99	14.37		80.0	
		Z	16.70	84.37	13.73		80.0	
10661-AAA	Pulse Waveform (200Hz, 60%)	X	100.00	148.43	37.17	2.22	100.0	± 9.6 %
		Y	0.23	60.00	3.27		100.0	
		Z	100.00	93.94	14.56		100.0	
10662-AAA	Pulse Waveform (200Hz, 80%)	X	100.00	271.45	80.22	0.97	120.0	± 9.6 %
		Y	0.00	84.29	98.51		120.0	
		Z	99.98	85.52	10.49		120.0	

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



Appendix D. Photographs of EUT and Setup