

Appendix B - DAE & Probe Calibration Certificate

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 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	Accreditation No.: SCS 0108	
Client: SGS-TW (Auden)	Certificate No.: DAE4-1260_Nov18	

CALIBRATION CERTIFICATE			
Object	DAE4 - SD 000 D04 BM - SN: 1260		
Calibration procedure(s)	DA CAL-06.v29 Calibration procedure for the data acquisition electronics (DAE)		
Calibration date	November 30, 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&PE critical for calibration)			
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Kalloy Multimeter Type 2001	SN: 0810276	08-Sep-18 (No:23488)	Sep-19
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	04-Jan-18 (in house check)	In house check: Jan-18
Calibrator Box V2.1	SE UWS 006 AA 1002	04-Jan-18 (in house check)	In house check: Jan-18
Calibrated by:	Name: Dominique Steffen Function: Laboratory Technician	Signature: 	
Approved by:	Name: Sven Kühn Function: Deputy Manager	Signature: 	
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			Issued: November 30, 2018

Certificate No: DAE4-1260_Nov18

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Accreditation No.: SCS 0108

Glossary

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

Methods Applied and Interpretation of Parameters

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

Certificate No: DAE5-1260_Nov18

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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 μ V , full range = -100...+300 mV

Low Range: 1LSB = 61nV , full range = -1.....+3mV

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

Calibration Factors	X	Y	Z
High Range	404.190 $\pm$ 0.02% (k=2)	404.604 $\pm$ 0.02% (k=2)	404.793 $\pm$ 0.02% (k=2)
Low Range	3.99161 $\pm$ 1.50% (k=2)	4.00001 $\pm$ 1.50% (k=2)	4.00892 $\pm$ 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	341.5 ° $\pm$ 1 °
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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	200033.72	-1.26	-0.00
Channel X + Input	20003.07	-2.10	-0.01
Channel X - Input	-20003.16	2.78	-0.01
Channel Y + Input	200038.25	3.73	0.00
Channel Y + Input	20002.41	-2.63	-0.01
Channel Y - Input	-20006.86	-0.69	0.00
Channel Z + Input	200033.80	-1.16	-0.00
Channel Z + Input	20001.51	-3.36	-0.02
Channel Z - Input	-20006.68	-0.48	0.00

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2001.18	0.25	0.01
Channel X + Input	200.87	-0.09	-0.04
Channel X - Input	-198.21	-0.79	-0.40
Channel Y + Input	2001.05	0.24	0.01
Channel Y + Input	199.97	-0.89	-0.44
Channel Y - Input	-199.76	-0.64	0.32
Channel Z + Input	2000.74	0.04	0.00
Channel Z + Input	199.77	-1.03	-0.51
Channel Z - Input	-200.48	-1.28	0.64

2. Common mode sensitivity

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

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-0.90	-2.92
	- 200	4.87	2.75
Channel Y	200	-5.45	-5.41
	- 200	4.55	4.20
Channel Z	200	-16.55	-16.45
	- 200	13.88	14.44

3. Channel separation

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

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	0.68	-5.24
Channel Y	200	8.97	-	1.84
Channel Z	200	10.48	5.66	-

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4. AD-Converter Values with inputs shorted

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

	High Range (LSB)	Low Range (LSB)
Channel X	16236	16097
Channel Y	15859	16057
Channel Z	16152	16351

5. Input Offset Measurement

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

Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	0.63	-0.78	1.69	0.43
Channel Y	0.10	-0.90	1.53	0.41
Channel Z	-1.03	-2.00	0.10	0.44

6. Input Offset Current

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

7. Input Resistance (Typical values for information)

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

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

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

9. Power Consumption (Typical values for information)

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

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Accreditation No.: SCS 0108

Client: **Auden**

Certificate No.: **DAE4-914_Dec18**

CALIBRATION CERTIFICATE

Object: **DAE4 - SD 000 D04 BK - S/N: 914**

Calibration procedure(s): **QA CAL-06.v29**
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: **December 11, 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 this certificate.

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

Calibration Equipment used (M&TE critical for calibration):

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Kelley Multimeter Type 2001	SE 0810078	03-Sep-18 (No.23488)	Sep-19
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	04-Jan-18 (in house check)	In house check: Jan-19
Calibrator Box V2.1	SE UMS 006 AA 1002	04-Jan-18 (in house check)	In house check: Jan-19

Calibrated by:	Name: Eric Hairfield	Function: Laboratory Technician	Signature:
Approved by:	Name: Sven Kühn	Function: Deputy Manager	Signature:

Issued: December 11, 2018

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Certificate No.: DAE4-914_Dec18

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Accreditation No.: **SCS 0108**

Glossary

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

Methods Applied and Interpretation of Parameters

- **DC Voltage Measurement:** Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- **Connector angle:** The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
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 - **DC Voltage Measurement Linearity:** Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - **Common mode sensitivity:** Influence of a positive or negative common mode voltage on the differential measurement.
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 - **AD Converter Values with inputs shorted:** Values on the internal AD converter corresponding to zero input voltage.
 - **Input Offset Measurement:** Output voltage and statistical results over a large number of zero voltage measurements.
 - **Input Offset Current:** Typical value for information; Maximum channel input offset current; not considering the input resistance.
 - **Input resistance:** Typical value for information; DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - **Low Battery Alarm Voltage:** Typical value for information. Below this voltage, a battery alarm signal is generated.
 - **Power consumption:** Typical value for information. Supply currents in various operating modes.

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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 μ V , full range = -100...+300 mV

Low Range: 1LSB = 61nV , full range = -1.....+3mV

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

Calibration Factors	X	Y	Z
High Range	405.118 $\pm$ 0.02% (k=2)	404.309 $\pm$ 0.02% (k=2)	403.887 $\pm$ 0.02% (k=2)
Low Range	3.99249 $\pm$ 1.50% (k=2)	3.98909 $\pm$ 1.50% (k=2)	3.99066 $\pm$ 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	64.0 $^{\circ}$ $\pm$ 1 $^{\circ}$
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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	19998.58	2.11	0.00
Channel X + Input	19998.57	-2.75	-0.01
Channel X - Input	-20000.73	1.25	-0.01
Channel Y + Input	19998.17	2.01	0.00
Channel Y + Input	19997.28	-3.97	-0.02
Channel Y - Input	-20001.99	-0.10	0.00
Channel Z + Input	19997.18	0.68	0.00
Channel Z + Input	19998.61	-2.66	-0.01
Channel Z - Input	-20002.03	-0.10	0.00

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2001.17	0.30	0.02
Channel X + Input	200.57	-0.58	-0.29
Channel X - Input	-199.13	-0.34	0.17
Channel Y + Input	2000.87	-0.05	-0.00
Channel Y + Input	200.49	-0.62	-0.31
Channel Y - Input	-199.14	-0.42	0.21
Channel Z + Input	2000.66	-0.18	-0.01
Channel Z + Input	200.17	-0.94	-0.47
Channel Z - Input	-200.12	-1.35	0.68

2. Common mode sensitivity

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

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-12.83	-14.43
	-200	15.19	13.34
Channel Y	200	-5.26	-5.22
	-200	4.18	4.10
Channel Z	200	5.91	5.36
	-200	-7.27	-7.63

3. Channel separation

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

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	3.18	-4.63
Channel Y	200	7.77	-	2.34
Channel Z	200	9.02	5.71	-

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4. AD-Converter Values with inputs shorted

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

	High Range (LSB)	Low Range (LSB)
Channel X	16113	12727
Channel Y	16145	15429
Channel Z	16017	14873

5. Input Offset Measurement

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

Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	0.17	-0.89	1.03	0.39
Channel Y	1.31	-0.62	2.92	0.71
Channel Z	0.01	-1.10	1.53	0.60

6. Input Offset Current

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

7. Input Resistance (Typical values for information)

	Zeroing (kΩ)	Measuring (MΩ)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

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

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

9. Power Consumption (Typical values for information)

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

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client: **SGS-TW (Auden)**

Certificate No. **EX3-3938_Oct18**

CALIBRATION CERTIFICATE

Object: **EX3DV4 - SN-3938**

Calibration procedure(s): **QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v4, QA CAL-23.v5, QA
CAL-25.v6
Calibration procedure for dosimetric E-field probes**

Calibration date: **October 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&PE 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 GS32v2	SN: 3013	30-Dec-17 (No. ES3-3013 Dec17)	Dec-18
DAE4	SN: 860	21-Dec-17 (No. SAS4-060 Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: G941293874	05-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41499087	05-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: C00110210	05-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3842U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8363A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19

	Name	Function	Signature
Calibrated by:	Jeton Kasrati	Laboratory Technician	
Approved by:	Kimo Poury	Technical Manager	
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			Issued: October 24, 2018

Certificate No. **EX3-3938_Oct18**

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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	α rotation around probe axis
Polarization β	β rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\beta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor A to the robot coordinate system

Calibration is Performed According to the Following Standards:

- 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
- 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
- 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
- KDB 865684, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\theta = 0$ ($f \leq 300$ MHz in TEM-cell; $f > 1500$ 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.
- DCPx,y,z**: DCP are numerical linearization parameters assessed based on the ratio 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.
- A_{x,y,z}, B_{x,y,z}, C_{x,y,z}, D_{x,y,z}, VR_{x,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 $f \geq 800$ 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 dependant 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 NORM_x (no uncertainty required).

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EX3DV4-SN:3938

October 24, 2018

Probe EX3DV4

SN:3938

Manufactured: May 2, 2013
Calibrated: October 24, 2018

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

Certificate No. E5/2019/30028

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EX3DV4 - SN:3938

October 24, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938**Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (aV/(V/m) ²) ^k	0.51	0.57	0.33	± 10.1 %
DGP (mV) ^k	103.2	100.2	107.8	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB V _μ V	C	D dB	VR mV	Unc ² (k=2)
0	CW	X	0.0	0.0	1.0	0.00	164.0	±3.5 %
		Y	0.0	0.0	1.0		174.2	
		Z	0.0	0.0	1.0		176.3	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	a V ⁻¹	T1 ms.V ⁻¹	T2 ms.V ⁻¹	T3 ms	T4 V ⁻¹	T5 V ⁻¹	T6
X	59.09	438.9	85.15	28.09	1.205	6.10	1.012	0.575	1.008
Y	53.22	408.3	37.24	24.25	1.457	5.10	0.000	0.765	1.013
Z	46.65	332.5	32.92	15.26	1.153	4.86	2.000	0.225	1.005

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%.

¹ The recombinants of Norm X,Y,Z do not affect the E-field uncertainty (see T5) (see Pages 5 and 6)

² Numerical interpolation parameter; uncertainty not required.

³ Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Certificate No: EX3-3938_01516

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EX3DV4 - SN:3938

October 24, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938**Calibration Parameter Determined in Head Tissue Simulating Media**

f (MHz) ^a	Relative Permittivity ^b	Conductivity (S/m) ^b	ConvF x	ConvF Y	ConvF Z	Alpha ^c	Depth ^d (mm)	Unc (k=2)
750	41.2	0.89	9.82	9.82	9.82	0.45	0.80	± 12.0 %
835	41.5	0.90	9.90	9.90	9.90	0.50	0.85	± 12.0 %
900	41.5	0.97	9.25	9.25	9.25	0.33	1.04	± 12.0 %
1450	40.5	1.20	8.53	8.53	8.53	0.30	0.86	± 12.0 %
1750	40.1	1.37	8.32	8.32	8.32	0.36	0.90	± 12.0 %
1900	40.0	1.40	7.95	7.95	7.95	0.29	0.90	± 12.0 %
2000	40.0	1.40	7.93	7.93	7.93	0.35	0.80	± 12.0 %
2300	39.5	1.87	7.59	7.59	7.59	0.37	0.80	± 12.0 %
2450	39.2	1.80	7.17	7.17	7.17	0.38	0.83	± 12.0 %
2800	39.0	1.96	7.11	7.11	7.11	0.38	0.87	± 12.0 %
5250	35.9	4.71	5.00	5.00	5.00	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.65	4.65	4.65	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.76	4.76	4.76	0.40	1.80	± 13.1 %

^a Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). Use 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, 60 and 70 MHz for ConvF assessments at 30, 64, 120, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^b At frequencies below 3 GHz, the validity of tissue parameters (x and y) 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 (x and y) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^c Alpha/Depth are determined during calibration. SPEAG warrants limit the sampling 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 diameter from the boundary.

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EX3DV4- SN:3938

October 24, 2016

DASY/EASY - Parameters of Probe; EX3DV4 - SN:3938**Calibration Parameter Determined in Body Tissue Simulating Media**

f (MHz) ^b	Relative Permittivity ^a	Conductivity (S/m) ^c	ConvF X	ConvF Y	ConvF Z	Alpha ^d	Depth (mm)	Unc (k=2)
750	56.5	0.95	9.72	9.72	9.72	0.46	0.87	± 12.0 %
938	55.2	0.97	9.56	9.56	9.56	0.41	0.92	± 12.0 %
900	55.0	1.05	9.33	9.33	9.33	0.48	0.87	± 12.0 %
1450	54.0	1.30	7.98	7.98	7.98	0.32	0.90	± 12.0 %
1750	53.4	1.49	7.83	7.83	7.83	0.43	0.90	± 12.0 %
1900	53.3	1.52	7.52	7.52	7.52	0.33	0.96	± 12.0 %
2000	53.3	1.52	7.82	7.82	7.82	0.26	0.88	± 12.0 %
2300	52.9	1.81	7.33	7.33	7.33	0.42	0.87	± 12.0 %
2450	52.7	1.95	7.30	7.30	7.30	0.35	0.87	± 12.0 %
2600	52.5	2.16	7.15	7.15	7.15	0.33	0.95	± 12.0 %
5250	48.9	5.36	4.23	4.23	4.23	0.50	1.90	± 13.1 %
5800	48.5	5.77	3.77	3.77	3.77	0.50	1.90	± 13.1 %
6800	48.2	6.00	4.00	4.00	4.00	0.50	1.90	± 13.1 %

^b Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 21), 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 6 GHz frequency validity can be extended to ± 110 MHz.

^c At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation outputs 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.

^d 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 (z) dimension from the boundary.

Certificate No: EX3-3938_Oct18

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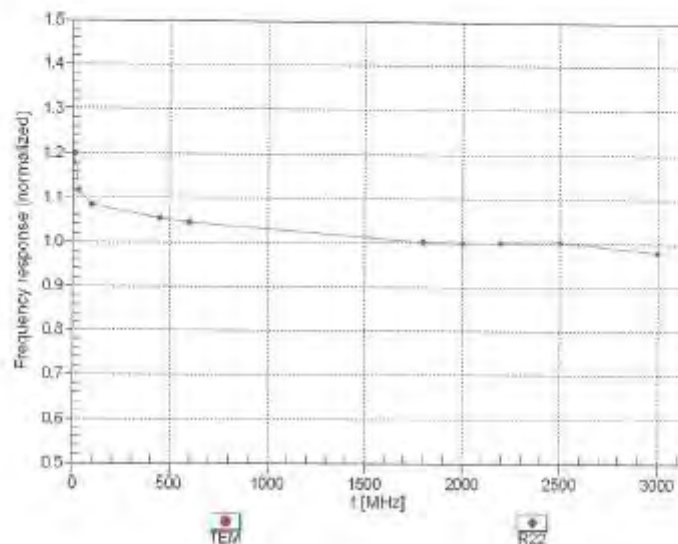
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EX3DV4-SN:3938

October 24, 2019

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

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

Certificate No. EX3-3938_Oct19

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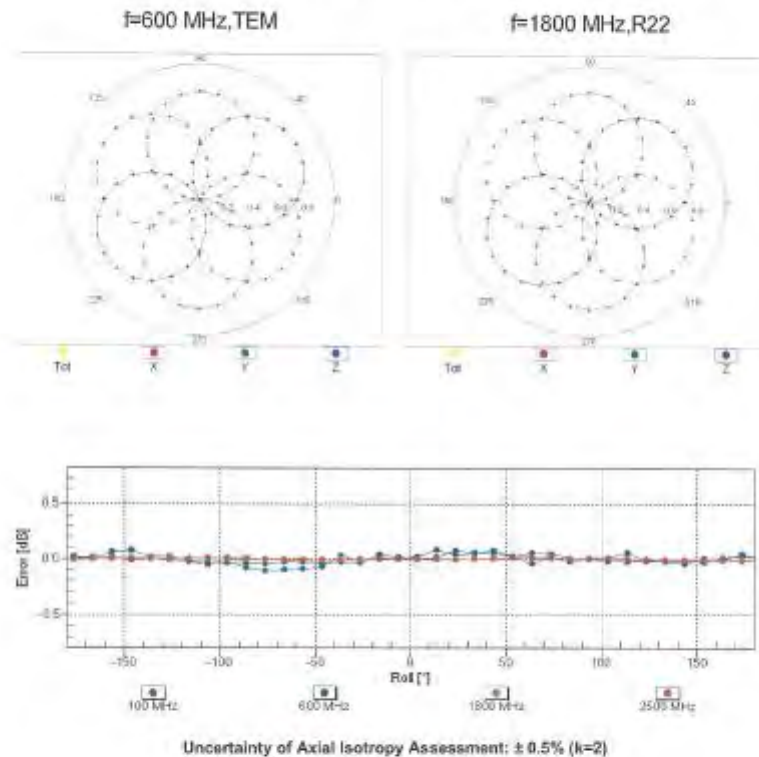
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EX3DV4-SN:3938

October 24, 2018

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



Certificate No: EX3-3938_Oct18

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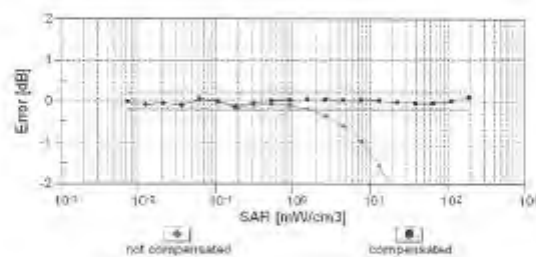
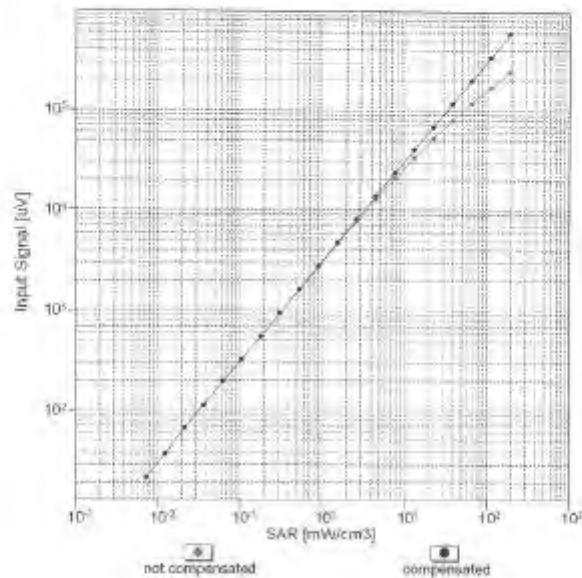
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EX3DV4- SN.3938

October 24, 2018

Dynamic Range f(SAR_{head}) (TEM cell, f_{eval}= 1900 MHz)



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

Certificate No: EX3-3035_Oct18

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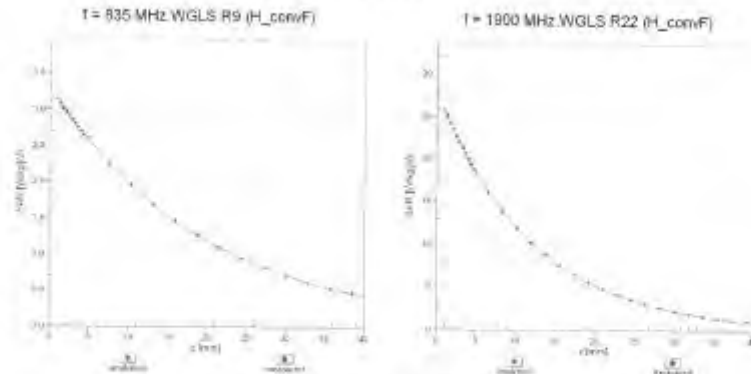
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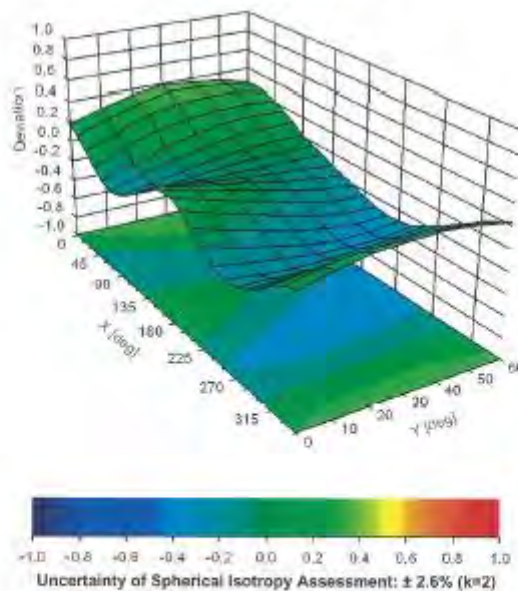
EX3DV4- SN:3938

October 24, 2018

Conversion Factor Assessment



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



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EX3DV4- SN:3938

October 24, 2018

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

Sensor Arrangement	Triangular
Connector Angle (°)	-26.4
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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EXQDM4-SN:3936

October 24, 2018

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB/μV	C	D dB	V _{IR} mV	Max Unc ¹ (k=2)
0	CW	X	0.00	0.00	1.00	0.00	164.0	± 3.5 %
		Y	0.00	0.00	1.00		174.2	
		Z	0.00	0.00	1.00		176.3	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	11.84	84.28	10.03	10.00	20.0	± 9.6 %
		Y	4.75	72.52	14.55		20.0	
		Z	2.70	85.86	10.62		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.25	71.04	17.46	0.00	150.0	± 9.6 %
		Y	0.87	85.19	13.50		150.0	
		Z	1.10	89.84	16.56		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.29	85.77	16.62	0.41	150.0	± 9.6 %
		Y	1.13	83.67	14.74		150.0	
		Z	1.17	84.77	15.66		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	5.08	87.01	17.40	1.46	150.0	± 9.6 %
		Y	4.93	86.63	17.09		150.0	
		Z	4.79	86.72	16.84		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	100.00	118.51	30.68	8.38	50.0	± 9.6 %
		Y	100.00	117.47	30.14		50.0	
		Z	9.68	81.69	18.25		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	118.45	30.70	9.57	50.0	± 9.6 %
		Y	100.00	117.42	30.17		50.0	
		Z	8.28	79.66	17.55		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	118.27	28.62	6.58	60.0	± 9.6 %
		Y	100.00	113.88	27.30		60.0	
		Z	17.56	88.43	18.89		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	14.85	105.13	41.16	12.57	50.0	± 9.6 %
		Y	6.89	80.08	30.32		50.0	
		Z	5.13	73.32	26.13		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	28.61	118.31	40.38	9.56	60.0	± 9.6 %
		Y	17.18	103.12	35.82		60.0	
		Z	10.76	82.22	31.22		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	116.29	27.82	4.80	80.0	± 9.6 %
		Y	100.00	112.20	25.60		80.0	
		Z	100.00	105.42	22.06		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	117.56	27.55	3.65	100.0	± 9.6 %
		Y	100.00	111.19	24.82		100.0	
		Z	100.00	105.06	21.28		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	14.44	99.44	33.73	7.80	60.0	± 9.6 %
		Y	10.38	81.48	30.82		60.0	
		Z	6.98	83.31	26.80		60.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	115.12	27.62	5.30	70.0	± 9.6 %
		Y	100.00	111.80	26.93		70.0	
		Z	13.15	85.06	17.21		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	120.41	27.44	1.88	100.0	± 9.6 %
		Y	100.00	105.88	20.55		100.0	
		Z	100.00	102.30	18.95		100.0	

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EX30V4-SN3938

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10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	129.17	28.03	1.17	100.0	±9.6 %
		Y	100.00	101.34	18.13		100.0	
		Z	100.00	104.25	18.92		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI4-DQPSK, DH1)	X	100.00	128.01	35.11	5.30	70.0	±9.6 %
		Y	30.28	106.06	28.70		70.0	
		Z	7.05	82.85	20.38		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI4-DQPSK, DH3)	X	31.52	111.52	29.81	1.88	100.0	±9.6 %
		Y	4.84	81.70	19.81		100.0	
		Z	3.36	77.14	17.43		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI4-DQPSK, DH5)	X	8.76	93.74	24.54	1.17	100.0	±9.6 %
		Y	2.58	74.38	18.81		100.0	
		Z	2.45	74.18	16.51		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (B-DPSK, DH1)	X	100.00	128.33	35.27	5.30	70.0	±9.6 %
		Y	48.56	114.02	30.85		70.0	
		Z	8.61	85.88	21.44		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (B-DPSK, DH3)	X	26.47	108.85	29.14	1.88	100.0	±9.6 %
		Y	1.63	80.88	18.28		100.0	
		Z	3.10	76.20	17.05		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (B-DPSK, DH5)	X	5.40	95.18	25.08	1.17	100.0	±9.6 %
		Y	2.60	74.97	18.94		100.0	
		Z	2.82	75.36	18.85		100.0	
10039-CAE	CDMA2000 (1XRTT, RC1)	X	2.91	78.88	19.30	0.00	150.0	±9.6 %
		Y	1.40	87.84	13.51		150.0	
		Z	2.98	79.60	18.81		150.0	
10042-CAE	IS-64 / IS-136 FDD (TDMA/FDM, PI4-DQPSK, Half-rate)	X	100.00	114.28	27.89	7.78	50.0	±9.6 %
		Y	100.00	112.24	26.83		50.0	
		Z	7.08	77.79	15.66		50.0	
10044-CAA	IS-81E/ATA-553 FDD (FDMA, FM)	X	0.00	111.10	2.93	0.00	150.0	±9.6 %
		Y	0.12	121.97	13.25		150.0	
		Z	0.02	124.98	11.44		150.0	
10046-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	100.00	120.31	32.96	13.80	25.0	±9.6 %
		Y	28.80	98.60	27.12		25.0	
		Z	6.15	73.04	18.88		25.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	100.00	118.79	31.19	16.78	40.0	±9.6 %
		Y	42.73	105.35	27.59		40.0	
		Z	6.52	75.70	18.44		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	50.92	115.40	32.89	9.03	50.0	±9.6 %
		Y	26.27	96.81	26.81		50.0	
		Z	6.73	81.48	20.30		50.0	
10058-CAE	EDGE-FDD (TDMA, 8PSK, TNC-1-2-3)	X	9.48	90.34	28.75	6.55	100.0	±9.6 %
		Y	7.41	84.68	27.34		100.0	
		Z	5.31	78.46	24.34		100.0	
10059-CAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.45	88.15	17.83	0.81	110.0	±9.6 %
		Y	1.24	85.28	15.64		110.0	
		Z	1.24	86.08	15.24		110.0	
10060-CAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	135.52	35.86	1.30	110.0	±9.6 %
		Y	100.00	127.82	31.55		110.0	
		Z	75.11	127.04	31.74		110.0	

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10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	37.93	122.29	34.76	2.04	110.0	±9.6%
		Y	7.04	91.70	25.28		110.0	
		Z	3.71	82.53	21.92		110.0	
10062-CAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 6 Mbps)	X	4.83	86.93	15.78	0.49	100.0	±9.6%
		Y	4.88	86.44	16.40		100.0	
		Z	4.61	88.82	16.41		100.0	
10063-CAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 9 Mbps)	X	4.96	87.07	16.91	0.72	100.0	±9.6%
		Y	4.71	86.58	16.52		100.0	
		Z	4.82	86.89	16.47		100.0	
10064-CAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 12 Mbps)	X	5.18	87.38	17.15	0.86	100.0	±9.6%
		Y	5.02	86.91	16.79		100.0	
		Z	4.80	87.10	16.66		100.0	
10065-CAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 18 Mbps)	X	5.07	87.37	17.30	1.21	100.0	±9.6%
		Y	4.91	86.89	16.94		100.0	
		Z	4.77	86.99	16.73		100.0	
10066-CAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 24 Mbps)	X	5.11	87.44	17.51	1.46	100.0	±9.6%
		Y	4.95	86.98	17.15		100.0	
		Z	4.76	86.99	16.85		100.0	
10067-CAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 36 Mbps)	X	5.40	87.52	17.91	2.04	100.0	±9.6%
		Y	5.26	87.17	17.62		100.0	
		Z	5.06	87.09	17.23		100.0	
10068-CAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 48 Mbps)	X	5.51	87.80	18.25	2.55	100.0	±9.6%
		Y	5.36	87.40	17.94		100.0	
		Z	5.11	87.14	17.41		100.0	
10069-CAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 54 Mbps)	X	5.58	87.89	18.40	2.67	100.0	±9.6%
		Y	5.44	87.37	18.13		100.0	
		Z	5.19	87.11	17.58		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.17	87.17	17.15	1.99	100.0	±9.6%
		Y	5.05	86.81	17.46		100.0	
		Z	4.86	86.78	17.09		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	5.21	87.68	18.06	2.30	100.0	±9.6%
		Y	5.08	87.27	17.74		100.0	
		Z	4.87	87.11	17.28		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.30	87.92	18.44	2.63	100.0	±9.6%
		Y	5.18	87.55	18.13		100.0	
		Z	4.94	87.26	17.56		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.29	87.90	18.65	3.30	100.0	±9.6%
		Y	5.18	87.54	18.34		100.0	
		Z	4.93	87.18	17.70		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.40	88.29	19.10	3.82	100.0	±9.6%
		Y	5.28	87.86	18.77		90.0	
		Z	4.98	87.33	17.99		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.38	87.97	19.17	4.16	90.0	±9.6%
		Y	5.29	87.84	18.88		90.0	
		Z	5.00	87.13	18.10		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.41	88.03	19.26	4.30	90.0	±9.6%
		Y	5.32	87.72	18.98		90.0	
		Z	5.03	87.21	18.19		90.0	

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10081-CAB	CDMA2000 (TxRTE, RC3)	X	1.20	70.94	15.87	0.00	150.0	±8.6%
		Y	0.68	63.33	10.59		150.0	
		Z	0.97	69.12	14.01		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, P4-QPSK, Fullrate)	X	1.35	61.30	13.54	4.77	80.0	±8.6%
		Y	1.15	60.19	5.56		80.0	
		Z	0.90	60.00	4.62		80.0	
10089-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	116.34	28.67	6.06	60.0	±8.6%
		Y	100.00	113.88	27.45		60.0	
		Z	16.50	88.08	19.81		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.98	69.10	16.76	0.00	150.0	±8.6%
		Y	1.98	66.14	14.64		150.0	
		Z	1.92	69.38	16.52		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.94	69.09	16.77	0.00	150.0	±8.6%
		Y	1.52	66.08	14.59		150.0	
		Z	1.57	69.33	16.49		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	28.67	116.31	40.37	9.56	80.0	±8.6%
		Y	17.22	103.14	35.83		80.0	
		Z	10.80	92.24	31.22		80.0	
10100-CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.51	72.21	17.62	0.00	150.0	±8.6%
		Y	3.94	69.12	15.85		150.0	
		Z	3.29	71.84	17.33		150.0	
10101-CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.42	69.37	16.44	0.00	150.0	±8.6%
		Y	3.15	66.88	15.45		150.0	
		Z	3.25	68.19	16.19		150.0	
10102-CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.51	65.25	16.50	0.00	150.0	±8.6%
		Y	3.29	65.87	15.57		150.0	
		Z	3.35	68.16	16.28		150.0	
10103-CAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	9.10	80.51	22.32	3.98	65.0	±8.6%
		Y	7.71	77.80	21.05		65.0	
		Z	6.72	75.86	19.85		65.0	
10104-CAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	8.26	77.67	22.00	3.98	65.0	±8.6%
		Y	7.55	75.78	21.18		65.0	
		Z	6.54	73.78	19.84		65.0	
10105-CAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	8.22	77.35	22.27	3.98	65.0	±8.6%
		Y	7.00	74.28	20.84		65.0	
		Z	6.41	73.55	19.98		65.0	
10106-CAB	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	3.07	71.32	17.44	0.00	150.0	±8.6%
		Y	2.58	68.37	15.87		150.0	
		Z	2.85	71.00	17.15		150.0	
10109-CAB	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.03	68.24	16.43	0.00	150.0	±8.6%
		Y	2.80	66.84	15.30		150.0	
		Z	2.92	68.15	16.17		150.0	
10110-CAB	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.51	70.39	17.16	0.00	150.0	±8.6%
		Y	2.08	67.38	16.21		150.0	
		Z	2.30	70.10	16.80		150.0	
10111-CAB	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.83	65.15	16.90	0.00	150.0	±8.6%
		Y	2.43	67.13	15.44		150.0	
		Z	2.71	68.56	16.76		150.0	

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EXCIV4- SN-3938

October 24, 2018

10112- CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	1.20	68.13	16.43	0.00	150.0	±9.6%
		Y	2.93	66.65	15.39		150.0	
		Z	3.04	68.13	16.21		150.0	
10113- CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.88	69.16	16.96	0.00	150.0	±9.6%
		Y	2.64	67.31	15.61		150.0	
		Z	2.97	69.66	16.67		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.21	67.32	16.54	0.00	150.0	±9.6%
		Y	5.08	66.65	16.21		150.0	
		Z	5.06	67.43	16.43		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.96	67.60	16.68	0.00	150.0	±9.6%
		Y	5.42	67.13	16.37		150.0	
		Z	5.34	67.52	16.46		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.33	67.55	16.59	0.00	150.0	±9.6%
		Y	5.19	67.09	16.26		150.0	
		Z	5.15	67.61	16.44		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.21	67.53	16.56	0.00	150.0	±9.6%
		Y	5.06	66.79	16.19		150.0	
		Z	5.03	67.31	16.39		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.83	67.75	16.76	0.00	150.0	±9.6%
		Y	5.50	67.34	16.48		150.0	
		Z	5.41	67.66	16.55		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.20	67.52	16.58	0.00	150.0	±9.6%
		Y	5.16	67.02	16.24		150.0	
		Z	5.13	67.55	16.43		150.0	
10140- CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.56	68.24	16.42	0.00	150.0	±9.6%
		Y	3.29	66.88	15.49		150.0	
		Z	3.39	68.15	16.19		150.0	
10141- CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.68	68.26	16.55	0.00	150.0	±9.6%
		Y	3.42	66.99	15.68		150.0	
		Z	3.52	68.25	16.36		150.0	
10142- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.31	70.61	17.10	0.00	150.0	±9.6%
		Y	1.84	67.11	14.76		150.0	
		Z	2.12	70.48	16.65		150.0	
10143- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.77	70.28	16.99	0.00	150.0	±9.6%
		Y	2.31	67.48	15.00		150.0	
		Z	2.68	70.99	16.78		150.0	
10144- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.51	67.86	15.37	0.00	150.0	±9.6%
		Y	2.14	65.69	13.59		150.0	
		Z	2.29	67.65	14.67		150.0	
10145- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.73	68.60	15.10	0.00	150.0	±9.6%
		Y	1.11	63.66	10.30		150.0	
		Z	1.33	67.08	12.73		150.0	
10146- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	4.24	75.96	17.12	0.00	150.0	±9.6%
		Y	2.46	66.71	13.45		150.0	
		Z	2.36	66.35	12.25		150.0	
10147- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	6.45	81.90	19.47	0.00	150.0	±9.6%
		Y	3.10	71.79	14.97		150.0	
		Z	3.29	72.21	14.01		150.0	

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EX30V4-SN-3938

October 24, 2018

10148-CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	3.10	68.31	16.47	0.00	150.0	± 9.6 %
		Y	2.81	66.69	15.35		150.0	
		Z	2.83	68.23	16.22		150.0	
10150-CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.21	68.18	16.48	0.00	150.0	± 9.6 %
		Y	2.94	66.70	15.43		150.0	
		Z	3.05	68.20	16.26		150.0	
10151-CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	10.13	83.77	23.67	3.98	65.0	± 9.6 %
		Y	6.42	80.52	22.26		65.0	
		Z	6.80	77.61	20.59		65.0	
10152-CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	8.04	78.08	22.05	3.98	65.0	± 9.6 %
		Y	7.13	75.91	20.98		65.0	
		Z	8.04	75.98	19.44		65.0	
10153-CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	8.44	79.82	22.75	3.98	65.0	± 9.6 %
		Y	7.56	76.89	21.74		65.0	
		Z	6.48	74.70	20.30		65.0	
10154-CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.59	70.97	17.50	0.00	150.0	± 9.6 %
		Y	2.12	67.77	15.47		150.0	
		Z	2.38	70.74	17.16		150.0	
10155-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.63	69.15	16.90	0.00	150.0	± 9.6 %
		Y	2.49	67.14	15.45		150.0	
		Z	2.71	69.67	16.78		150.0	
10156-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.21	71.19	17.23	0.00	150.0	± 9.6 %
		Y	1.68	67.01	14.46		150.0	
		Z	2.01	71.01	16.66		150.0	
10157-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.40	68.89	15.72	0.00	150.0	± 9.6 %
		Y	1.96	65.89	13.48		150.0	
		Z	2.19	68.70	14.94		150.0	
10158-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.98	69.22	17.01	0.00	150.0	± 9.6 %
		Y	2.65	67.36	15.65		150.0	
		Z	2.88	69.75	16.83		150.0	
10159-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.54	69.44	16.05	0.00	150.0	± 9.6 %
		Y	2.05	66.31	13.77		150.0	
		Z	2.34	69.42	15.34		150.0	
10160-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.96	69.71	16.87	0.00	150.0	± 9.6 %
		Y	2.62	67.67	15.69		150.0	
		Z	2.75	69.58	16.72		150.0	
10161-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.11	68.11	16.44	0.00	150.0	± 9.6 %
		Y	2.80	66.60	15.34		150.0	
		Z	2.95	68.19	16.22		150.0	
10162-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.21	68.15	16.50	0.00	150.0	± 9.6 %
		Y	2.94	66.74	15.45		150.0	
		Z	3.08	68.32	16.32		150.0	
10180-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	4.07	71.03	19.81	3.01	150.0	± 9.6 %
		Y	3.79	69.95	19.36		150.0	
		Z	3.80	71.36	19.78		150.0	
10187-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	5.42	74.80	20.87	3.01	150.0	± 9.6 %
		Y	4.77	72.79	19.75		150.0	
		Z	5.29	75.01	20.77		150.0	

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EX3DV4- SN:3938

October 29, 2018

10108-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6.05	77.17	21.98	3.01	150.0	±9.6%
		Y	5.30	75.09	21.09		150.0	
		Z	6.36	79.86	22.71		150.0	
10109-CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.85	72.93	20.70	3.01	150.0	±9.6%
		Y	3.33	70.15	19.41		150.0	
		Z	3.47	72.51	20.23		150.0	
10170-CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	6.37	81.48	23.72	3.01	150.0	±9.6%
		Y	4.75	78.10	21.63		150.0	
		Z	7.61	85.64	24.72		150.0	
10171-AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	4.87	75.78	20.53	3.01	150.0	±9.6%
		Y	3.67	71.72	18.83		150.0	
		Z	4.54	76.13	20.23		150.0	
10172-CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	80.41	131.50	39.78	8.02	65.0	±9.6%
		Y	18.51	103.18	32.14		65.0	
		Z	14.22	97.99	29.18		65.0	
10173-CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	100.00	127.75	36.65	8.02	65.0	±9.6%
		Y	30.31	107.15	31.45		65.0	
		Z	25.08	102.02	28.13		65.0	
10174-CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	60.73	116.52	33.35	8.02	65.0	±9.6%
		Y	11.73	99.84	28.80		65.0	
		Z	17.06	94.57	25.40		65.0	
10175-CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.78	72.50	20.41	3.01	150.0	±9.6%
		Y	3.29	69.80	19.15		150.0	
		Z	3.40	71.88	19.88		150.0	
10176-CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	6.38	81.51	23.73	3.01	150.0	±9.6%
		Y	4.76	78.12	21.65		150.0	
		Z	7.63	85.68	24.74		150.0	
10177-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.82	72.71	20.53	3.01	150.0	±9.6%
		Y	3.32	69.97	19.25		150.0	
		Z	3.44	72.23	20.02		150.0	
10178-CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	6.29	81.12	23.55	3.01	150.0	±9.6%
		Y	4.70	75.85	21.51		150.0	
		Z	8.85	84.54	24.51		150.0	
10179-CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	5.53	78.33	21.05	3.01	150.0	±9.6%
		Y	4.26	73.73	20.05		150.0	
		Z	5.63	80.03	22.20		150.0	
10180-CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	4.85	75.83	20.46	3.01	150.0	±9.6%
		Y	3.85	71.83	18.78		150.0	
		Z	4.51	75.97	20.14		150.0	
10181-CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.82	72.55	20.52	3.01	150.0	±9.6%
		Y	3.31	69.95	19.24		150.0	
		Z	3.44	72.20	20.01		150.0	
10182-CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	6.25	81.05	23.54	3.01	150.0	±9.6%
		Y	4.70	75.84	21.50		150.0	
		Z	8.83	84.50	24.49		150.0	
10183-AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	4.84	75.60	20.44	3.01	150.0	±9.6%
		Y	3.85	71.51	18.77		150.0	
		Z	4.50	75.94	20.13		150.0	

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EX30V4-SN:3938

October 24, 2018

10184-CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.23	72.74	20.54	3.01	150.0	± 9.6 %
		Y	3.32	70.00	19.27		150.0	
		Z	3.45	72.26	20.04		150.0	
10185-CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	8.29	81.18	23.59	3.01	150.0	± 9.6 %
		Y	4.72	75.91	21.53		150.0	
		Z	6.86	84.83	24.55		150.0	
10186-AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	4.86	75.68	20.48	3.01	150.0	± 9.6 %
		Y	3.87	71.85	18.80		150.0	
		Z	4.53	76.04	20.17		150.0	
10187-CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.84	72.79	20.60	3.01	150.0	± 9.6 %
		Y	3.33	70.05	19.33		150.0	
		Z	3.46	72.34	20.11		150.0	
10188-CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	6.59	82.17	24.06	3.01	150.0	± 9.6 %
		Y	4.88	76.83	21.93		150.0	
		Z	7.44	86.21	25.23		150.0	
10189-AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	5.01	76.28	20.81	3.01	150.0	± 9.6 %
		Y	3.96	72.12	19.08		150.0	
		Z	4.72	76.84	20.90		150.0	
10193-EAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.64	83.78	16.35	0.00	150.0	± 9.6 %
		Y	4.48	85.22	15.91		150.0	
		Z	4.48	83.93	16.18		150.0	
10194-EAC	IEEE 802.11n (HT Greenfield, 30 Mbps, 16-QAM)	X	4.64	87.15	16.46	0.00	150.0	± 9.6 %
		Y	4.66	86.55	16.03		150.0	
		Z	4.65	87.23	16.31		150.0	
10195-EAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.88	87.16	16.47	0.00	150.0	± 9.6 %
		Y	4.70	86.58	16.05		150.0	
		Z	4.69	87.26	16.32		150.0	
10196-EAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.66	88.88	16.38	0.00	150.0	± 9.6 %
		Y	4.49	88.29	15.93		150.0	
		Z	4.48	88.88	16.21		150.0	
10197-EAC	IEEE 802.11n (HT Mixed, 30 Mbps, 16-QAM)	X	4.85	87.17	16.47	0.00	150.0	± 9.6 %
		Y	4.67	86.58	16.04		150.0	
		Z	4.66	87.25	16.32		150.0	
10198-EAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.88	87.18	16.48	0.00	150.0	± 9.6 %
		Y	4.70	86.60	16.06		150.0	
		Z	4.69	87.27	16.33		150.0	
10219-EAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.61	88.60	16.35	0.00	150.0	± 9.6 %
		Y	4.43	88.30	15.89		150.0	
		Z	4.43	87.01	16.10		150.0	
10220-EAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.85	87.15	16.47	0.00	150.0	± 9.6 %
		Y	4.67	86.58	16.04		150.0	
		Z	4.66	87.22	16.31		150.0	
10221-EAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.88	87.10	16.46	0.00	150.0	± 9.6 %
		Y	4.71	86.53	16.05		150.0	
		Z	4.70	87.20	16.31		150.0	
10222-EAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.19	87.35	16.57	0.00	150.0	± 9.6 %
		Y	5.03	86.77	16.18		150.0	
		Z	5.01	87.33	16.39		150.0	

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October 24, 2018

10223-CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.54	67.81	16.71	0.00	150.0	±9.6%
		Y	5.35	68.99	16.32		150.0	
		Z	5.29	67.45	16.47		150.0	
10224-CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.24	67.46	16.55	0.00	150.0	±9.6%
		Y	5.05	68.87	16.16		150.0	
		Z	5.06	67.45	16.38		150.0	
10225-CAC	UMTS-FDD (HSPA+)	X	2.94	86.61	15.90	0.00	150.0	±9.6%
		Y	2.72	85.45	14.90		150.0	
		Z	2.80	86.76	15.59		150.0	
10226-CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	100.00	127.97	36.79	0.02	65.0	±9.6%
		Y	33.01	106.86	32.02		65.0	
		Z	28.80	104.35	28.88		65.0	
10227-CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	71.64	120.02	34.24	0.02	65.0	±9.6%
		Y	27.58	104.06	30.11		65.0	
		Z	21.87	98.19	25.60		65.0	
10228-CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	83.76	133.19	40.33	0.02	65.0	±9.6%
		Y	27.23	111.37	34.65		65.0	
		Z	14.92	99.20	29.65		65.0	
10229-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	100.00	127.75	36.66	0.02	65.0	±9.6%
		Y	30.45	107.22	31.48		65.0	
		Z	25.35	102.20	26.19		65.0	
10230-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	64.64	118.06	33.66	0.02	65.0	±9.6%
		Y	26.97	102.71	29.64		65.0	
		Z	19.35	98.45	25.81		65.0	
10231-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	74.78	130.72	39.63	0.02	65.0	±9.6%
		Y	25.26	109.74	34.10		65.0	
		Z	13.84	97.69	29.10		65.0	
10232-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	100.00	127.76	36.66	0.02	65.0	±9.6%
		Y	30.44	107.22	31.48		65.0	
		Z	25.32	102.18	26.18		65.0	
10233-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	64.74	118.10	33.67	0.02	65.0	±9.6%
		Y	26.85	102.71	29.64		65.0	
		Z	19.51	96.43	25.91		65.0	
10234-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	88.78	128.16	38.87	0.02	65.0	±9.6%
		Y	23.59	106.16	33.33		65.0	
		Z	12.92	96.23	25.52		65.0	
10235-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	100.00	127.77	36.66	0.02	65.0	±9.6%
		Y	30.53	107.29	31.50		65.0	
		Z	25.37	102.23	26.19		65.0	
10236-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	65.78	118.24	34.73	0.02	65.0	±9.6%
		Y	25.93	102.67	29.66		65.0	
		Z	19.72	96.57	25.94		65.0	
10237-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	78.22	131.13	39.74	0.02	65.0	±9.6%
		Y	25.46	109.93	34.16		65.0	
		Z	13.89	97.79	25.12		65.0	
10238-CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	100.00	127.76	36.66	0.02	65.0	±9.6%
		Y	30.42	107.23	31.48		65.0	
		Z	25.26	102.15	26.17		65.0	

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October 24, 2019

10233-CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	64.82	118.13	33.68	0.02	85.0	±9.6%
		Y	25.62	102.71	29.64		85.0	
		Z	19.45	96.80	25.90		85.0	
10240-CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	75.84	131.04	39.71	0.02	85.0	±9.6%
		Y	25.37	109.66	34.14		85.0	
		Z	13.64	97.74	29.11		85.0	
10241-CAF	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	12.34	67.77	28.06	6.98	85.0	±9.6%
		Y	10.81	64.89	26.80		85.0	
		Z	9.46	63.27	25.34		85.0	
10242-CAF	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	11.80	60.96	27.68	6.96	85.0	±9.6%
		Y	9.43	62.13	25.70		85.0	
		Z	8.88	62.07	24.81		85.0	
10243-CAF	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	9.29	63.62	27.37	0.98	85.0	±9.6%
		Y	7.80	79.19	25.41		85.0	
		Z	6.90	78.26	24.23		85.0	
10244-CAF	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	11.62	65.25	22.95	3.98	85.0	±9.6%
		Y	9.03	81.02	21.07		85.0	
		Z	5.90	74.19	17.01		85.0	
10245-CAF	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	11.21	64.37	22.89	3.98	85.0	±9.6%
		Y	8.74	80.23	20.72		85.0	
		Z	5.76	73.60	16.72		85.0	
10246-CAF	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	13.76	91.33	25.01	3.98	85.0	±9.6%
		Y	8.27	82.50	21.35		85.0	
		Z	5.24	75.79	17.95		85.0	
10247-CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	9.16	60.38	21.81	3.98	85.0	±9.6%
		Y	6.57	76.53	19.78		85.0	
		Z	5.10	72.95	17.62		85.0	
10248-CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	7.96	79.46	21.43	3.98	85.0	±9.6%
		Y	6.50	75.86	19.49		85.0	
		Z	5.09	72.45	17.30		85.0	
10249-CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	14.67	92.89	28.21	3.98	85.0	±9.6%
		Y	9.72	85.51	23.23		85.0	
		Z	6.58	78.52	20.20		85.0	
10250-CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	8.79	81.74	23.60	3.98	85.0	±9.6%
		Y	7.53	78.86	22.19		85.0	
		Z	6.20	76.02	20.42		85.0	
10251-CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	8.02	78.77	22.12	3.98	85.0	±9.6%
		Y	7.01	76.36	20.84		85.0	
		Z	5.89	73.77	19.14		85.0	
10252-CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	12.21	88.16	25.66	3.98	85.0	±9.6%
		Y	8.34	84.33	23.66		85.0	
		Z	7.06	80.06	21.46		85.0	
10253-CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	7.75	77.28	21.77	3.98	85.0	±9.6%
		Y	6.93	75.28	20.72		85.0	
		Z	5.92	73.10	19.23		85.0	
10254-CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	8.16	78.13	22.42	3.98	85.0	±9.6%
		Y	7.34	76.22	21.42		85.0	
		Z	6.32	74.11	19.69		85.0	

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EX30V4- 5N:3938

October 24, 2019

10255-CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	9.52	82.98	23.03	3.98	65.0	±9.6%
		Y	9.03	79.93	22.27		65.0	
		Z	8.80	77.07	20.60		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 16-QAM)	X	10.25	82.65	21.16	3.98	65.0	±9.6%
		Y	7.42	77.45	18.77		65.0	
		Z	4.37	69.73	14.06		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM)	X	8.67	81.35	20.60	3.98	65.0	±9.6%
		Y	7.07	75.36	18.24		65.0	
		Z	4.27	69.13	13.71		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK)	X	11.24	87.41	23.00	3.98	65.0	±9.6%
		Y	8.32	77.02	18.86		65.0	
		Z	3.86	71.16	15.20		65.0	
10259-CAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	8.37	80.75	22.59	3.98	65.0	±9.6%
		Y	6.95	77.37	20.63		65.0	
		Z	5.53	74.09	19.56		65.0	
10260-CAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	8.31	80.29	22.23	3.98	65.0	±9.6%
		Y	6.91	77.04	20.51		65.0	
		Z	5.55	73.86	18.48		65.0	
10261-CAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	12.47	89.95	25.58	3.98	65.0	±9.6%
		Y	9.00	84.06	23.10		65.0	
		Z	6.47	78.90	20.51		65.0	
10262-CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	8.78	81.69	23.66	3.98	65.0	±9.6%
		Y	7.52	78.83	22.16		65.0	
		Z	6.10	75.95	20.36		65.0	
10263-CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	8.01	78.76	22.12	3.98	65.0	±9.6%
		Y	7.00	76.35	20.63		65.0	
		Z	5.82	73.75	19.13		65.0	
10264-CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	12.07	88.92	25.56	3.98	65.0	±9.6%
		Y	9.25	84.11	23.58		65.0	
		Z	7.01	79.65	21.36		65.0	
10265-CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	8.64	78.09	22.05	3.98	65.0	±9.6%
		Y	7.13	75.91	20.97		65.0	
		Z	6.04	73.58	19.44		65.0	
10266-CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	8.44	78.91	22.74	3.98	65.0	±9.6%
		Y	7.55	76.88	21.73		65.0	
		Z	6.47	74.69	20.29		65.0	
10267-CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	10.11	83.73	23.66	3.98	65.0	±9.6%
		Y	8.41	80.47	22.28		65.0	
		Z	6.87	77.57	20.57		65.0	
10268-CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	8.39	77.19	22.02	3.98	65.0	±9.6%
		Y	7.68	75.51	21.20		65.0	
		Z	6.70	73.67	19.92		65.0	
10269-CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	8.28	76.63	21.85	3.98	65.0	±9.6%
		Y	7.58	75.05	21.07		65.0	
		Z	6.67	73.30	19.83		65.0	
10270-CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	8.88	79.53	22.81	3.98	65.0	±9.6%
		Y	7.84	77.34	21.20		65.0	
		Z	6.74	75.30	19.88		65.0	

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October 24, 2018

10274-CAB	UMTS-FDD (HSPA, Subtest 5, 3GPP Rel.10)	X	2.89	67.00	15.83	0.00	150.0	± 8.6 %
		Y	2.47	65.81	14.67		150.0	
		Z	2.60	67.27	15.58		150.0	
10275-CAB	UMTS-FDD (HSPA, Subtest 5, 3GPP Rel.14)	X	1.83	70.14	16.36	0.00	150.0	± 8.6 %
		Y	1.44	66.20	14.31		150.0	
		Z	1.75	69.74	16.44		150.0	
10277-CAA	PHS (QPSK)	X	3.93	66.44	11.36	0.03	50.0	± 9.6 %
		Y	3.47	64.75	10.20		50.0	
		Z	2.82	62.17	7.82		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Roll-off 0.5)	X	14.62	69.25	23.47	9.03	50.0	± 9.6 %
		Y	7.61	75.00	18.87		50.0	
		Z	4.28	69.20	13.78		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Roll-off 0.38)	X	14.85	69.41	23.66	8.03	50.0	± 9.6 %
		Y	7.77	76.24	18.99		50.0	
		Z	4.39	69.44	13.93		50.0	
10290-AAB	CDMA2000, RC1, SQ55, Full Rate	X	2.10	73.72	17.06	0.00	150.0	± 9.6 %
		Y	1.20	65.83	12.24		150.0	
		Z	1.79	72.49	15.56		150.0	
10291-AAB	CDMA2000, RC3, SQ55, Full Rate	X	1.15	70.51	15.66	0.00	150.0	± 9.6 %
		Y	0.67	63.17	10.49		150.0	
		Z	0.94	68.71	13.80		150.0	
10292-AAB	CDMA2000, RC3, SQ52, Full Rate	X	1.93	79.28	19.72	0.00	150.0	± 9.6 %
		Y	0.76	65.41	12.91		150.0	
		Z	2.01	80.04	18.55		150.0	
10293-AAB	CDMA2000, RC3, SQ5, Full Rate	X	4.24	91.86	24.62	0.00	150.0	± 9.6 %
		Y	0.89	68.94	14.19		150.0	
		Z	16.89	110.82	28.51		150.0	
10295-AAB	CDMA2000, RC1, SQ3, 1.88x Rate 25 fr.	X	12.27	89.66	26.90	8.03	50.0	± 9.6 %
		Y	10.84	85.72	24.40		50.0	
		Z	6.99	77.74	20.17		50.0	
10297-AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	3.09	71.44	17.51	0.00	150.0	± 9.6 %
		Y	2.59	68.47	15.73		150.0	
		Z	2.87	71.14	17.24		150.0	
10298-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	2.03	71.15	19.52	0.00	150.0	± 9.6 %
		Y	1.39	65.75	12.91		150.0	
		Z	1.75	70.22	15.26		150.0	
10299-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	4.66	77.12	18.36	0.00	150.0	± 9.6 %
		Y	3.14	71.60	15.84		150.0	
		Z	3.75	74.00	15.76		150.0	
10300-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	2.97	89.66	14.52	0.00	150.0	± 9.6 %
		Y	2.25	86.29	12.46		150.0	
		Z	2.17	88.32	11.82		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	5.32	68.98	18.36	4.17	50.0	± 9.6 %
		Y	5.22	66.88	18.11		50.0	
		Z	4.67	65.61	17.38		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CCH symbols)	X	5.74	67.34	18.93	4.96	50.0	± 8.8 %
		Y	5.86	66.87	18.46		50.0	
		Z	5.18	66.25	18.09		50.0	

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October 28, 2018

10303-AAA	IEEE 802.16e WiMAX (3.1-15.6ms, 10MHz, 64QAM, PUSC)	X	5.54	67.22	18.91	4.96	50.0	± 9.6 %
		Y	5.37	66.70	18.39		50.0	
		Z	4.95	65.95	17.95		50.0	
10304-AAA	IEEE 802.16e WiMAX (29-18, 5ms, 10MHz, 64QAM, PUSC)	X	5.28	66.83	18.25	4.17	50.0	± 9.6 %
		Y	5.10	66.29	17.74		50.0	
		Z	4.73	65.82	17.46		50.0	
10305-AAA	IEEE 802.16e WiMAX (31-15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	5.07	72.27	22.34	6.02	35.0	± 9.6 %
		Y	5.72	72.48	21.90		35.0	
		Z	4.96	68.90	20.05		35.0	
10306-AAA	IEEE 802.16e WiMAX (29-18, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	5.43	68.37	20.21	6.02	35.0	± 9.6 %
		Y	5.52	69.50	20.64		35.0	
		Z	4.82	67.24	19.32		35.0	
10307-AAA	IEEE 802.16e WiMAX (29-18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	5.58	70.12	21.19	6.02	35.0	± 9.6 %
		Y	5.54	70.11	20.79		35.0	
		Z	4.75	67.07	19.37		35.0	
10308-AAA	IEEE 802.16e WiMAX (29-18, 10ms, 10MHz, 16QAM, PUSC)	X	5.58	70.46	21.39	6.02	35.0	± 9.6 %
		Y	5.56	70.48	21.00		35.0	
		Z	4.74	67.84	19.64		35.0	
10309-AAA	IEEE 802.16e WiMAX (29-15, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	5.56	68.68	20.38	6.02	35.0	± 9.6 %
		Y	5.81	69.08	20.81		35.0	
		Z	4.87	67.43	19.45		35.0	
10310-AAA	IEEE 802.16e WiMAX (29-18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	5.54	69.67	21.04	6.02	35.0	± 9.6 %
		Y	6.51	69.73	20.88		35.0	
		Z	4.78	67.38	19.33		35.0	
10311-AAD	LTE FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.47	79.67	17.10	0.00	150.0	± 9.6 %
		Y	2.93	87.81	15.48		150.0	
		Z	3.26	78.40	16.86		150.0	
10313-AAA	TDEN 1.3	X	10.55	84.71	20.54	8.00	70.0	± 9.6 %
		Y	5.52	75.51	18.93		70.0	
		Z	3.35	69.99	14.11		70.0	
10314-AAA	TDEN 1.6	X	24.33	102.67	28.79	10.00	30.0	± 9.6 %
		Y	8.40	84.48	22.81		30.0	
		Z	1.54	75.67	16.98		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.19	65.40	16.44	0.17	150.0	± 9.6 %
		Y	1.01	63.11	14.44		150.0	
		Z	1.08	64.77	15.73		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.72	66.92	16.53	0.17	150.0	± 9.6 %
		Y	4.66	66.38	16.12		150.0	
		Z	4.51	66.86	16.22		150.0	
10317-AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.72	66.92	16.53	0.17	150.0	± 9.6 %
		Y	4.56	66.38	16.12		150.0	
		Z	4.51	66.86	16.22		150.0	
10400-AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.84	67.20	16.45	0.00	150.0	± 9.6 %
		Y	4.66	66.61	16.02		150.0	
		Z	4.63	67.25	16.28		150.0	
10401-AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.48	67.20	16.49	0.00	150.0	± 9.6 %
		Y	5.36	66.85	16.23		150.0	
		Z	5.28	67.24	16.52		150.0	

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October 24, 2018

10405-AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 80ps duty cycle)	X	5.76	67.75	16.90	0.00	150.0	± 9.6 %
		Y	5.63	67.21	16.26		150.0	
		Z	5.57	67.70	16.42		150.0	
10405-AAE	CDMA2000 (1xEV-DO, Rev. 0)	X	2.10	73.72	17.06	0.00	115.0	± 9.6 %
		Y	1.20	65.83	12.24		115.0	
		Z	1.79	72.49	15.56		115.0	
10405-AAF	CDMA2000 (1xEV-DO, Rev. A)	X	2.10	73.72	17.06	0.00	115.0	± 9.6 %
		Y	1.20	65.83	12.24		115.0	
		Z	1.79	72.49	15.56		115.0	
10406-AAB	CDMA2000, RC3, SC32, SCH0, Full Rate	X	100.00	122.15	31.29	0.00	100.0	± 9.6 %
		Y	29.24	105.80	27.50		100.0	
		Z	100.00	114.73	27.11		100.0	
10410-AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Config=4)	X	100.00	121.06	30.91	3.23	80.0	± 9.6 %
		Y	100.00	121.88	31.03		80.0	
		Z	83.71	111.58	25.89		90.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90ps duty cycle)	X	1.03	63.90	15.54	0.00	150.0	± 9.6 %
		Y	0.51	61.92	13.65		150.0	
		Z	0.99	63.88	15.24		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP OFDM, 6 Mbps, 80ps duty cycle)	X	4.84	66.82	16.39	0.00	150.0	± 9.6 %
		Y	4.48	66.26	15.97		150.0	
		Z	4.48	66.96	16.25		150.0	
10417-AAB	IEEE 802.11ah WiFi 5 GHz (OFDM, 5 Mbps, 80ps duty cycle)	X	4.84	66.82	16.39	0.00	150.0	± 9.6 %
		Y	4.48	66.26	15.97		150.0	
		Z	4.48	66.96	16.25		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90ps duty cycle, Long preamble)	X	4.63	66.87	16.41	0.00	150.0	± 9.6 %
		Y	4.47	66.40	15.97		150.0	
		Z	4.47	67.14	16.29		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 80ps duty cycle, Short preamble)	X	4.65	66.92	16.41	0.00	150.0	± 9.6 %
		Y	4.48	66.36	15.96		150.0	
		Z	4.48	67.08	16.28		150.0	
10422-AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.79	66.92	16.42	0.00	150.0	± 9.6 %
		Y	4.61	66.37	16.01		150.0	
		Z	4.61	67.06	16.28		150.0	
10423-AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.98	67.29	16.55	0.00	150.0	± 9.6 %
		Y	4.79	66.71	16.13		150.0	
		Z	4.77	67.36	16.38		150.0	
10424-AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.89	67.24	16.52	0.00	150.0	± 9.6 %
		Y	4.70	66.65	16.10		150.0	
		Z	4.69	67.32	16.37		150.0	
10425-AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.44	67.47	16.62	0.00	150.0	± 9.6 %
		Y	5.32	67.05	16.33		150.0	
		Z	5.25	67.48	16.46		150.0	
10428-AAB	IEEE 802.11n (HT Greenfield, 80 Mbps, 16-QAM)	X	5.45	67.50	16.63	0.00	150.0	± 9.6 %
		Y	5.32	67.06	16.33		150.0	
		Z	5.26	67.50	16.46		150.0	

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EX3DV4-SN3838

October 24, 2018

10427-AAB	IEEE 802.11n (HT) Greenfield, 150 Mbps, 64-QAM)	X	5.47	67.52	16.63	0.00	150.0	±9.6%
		Y	5.33	67.64	16.31		150.0	
		Z	5.28	67.60	16.46		150.0	
10430-AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.44	70.94	16.55	0.00	150.0	±9.6%
		Y	4.14	70.00	17.76		150.0	
		Z	4.53	72.71	16.04		150.0	
10431-AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.30	67.45	16.60	0.00	150.0	±9.6%
		Y	4.17	66.74	15.93		150.0	
		Z	4.19	67.60	16.31		150.0	
10432-AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.67	67.30	16.51	0.00	150.0	±9.6%
		Y	4.47	66.66	16.03		150.0	
		Z	4.47	67.41	16.34		150.0	
10433-AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.90	67.28	16.55	0.00	150.0	±9.6%
		Y	4.72	66.69	16.12		150.0	
		Z	4.71	67.36	16.39		150.0	
10434-AAA	W-CDMA (BS Test Model T, 64 DPCCH)	X	4.58	71.86	16.63	0.00	150.0	±9.6%
		Y	4.21	70.69	17.67		150.0	
		Z	4.78	74.08	19.21		150.0	
10435-AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	120.85	30.73	3.23	80.0	±9.6%
		Y	100.00	121.66	30.95		80.0	
		Z	66.36	108.68	25.16		80.0	
10447-AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.72	67.65	16.10	0.00	150.0	±9.6%
		Y	3.44	66.58	15.16		150.0	
		Z	3.50	67.61	16.74		150.0	
10448-AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.21	67.23	16.37	0.00	150.0	±9.6%
		Y	4.00	66.50	15.77		150.0	
		Z	4.03	67.40	16.15		150.0	
10449-AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.46	67.14	16.42	0.00	150.0	±9.6%
		Y	4.27	66.48	15.91		150.0	
		Z	4.28	67.27	16.26		150.0	
10450-AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.64	67.06	16.42	0.00	150.0	±9.6%
		Y	4.47	66.43	15.96		150.0	
		Z	4.47	67.16	16.26		150.0	
10451-AAA	W-CDMA (BS Test Model T, 64 DPCCH, Clipping 44%)	X	3.66	68.00	15.99	0.00	150.0	±9.6%
		Y	3.33	66.69	14.77		150.0	
		Z	3.40	68.05	15.38		150.0	
10455-AAB	IEEE 802.11ac WiFi (100MHz, 64-QAM 19.5pc duty cycle)	X	6.29	68.08	16.78	0.00	150.0	±9.6%
		Y	6.17	67.53	16.50		150.0	
		Z	6.11	68.01	16.56		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.03	65.45	16.13	0.00	150.0	±9.6%
		Y	3.72	64.69	15.67		150.0	
		Z	3.74	65.60	15.96		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	4.16	70.63	16.07	0.00	150.0	±9.6%
		Y	3.83	69.60	17.01		150.0	
		Z	4.25	73.12	16.49		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	5.20	68.00	16.25	0.00	150.0	±9.6%
		Y	5.01	67.77	17.91		150.0	
		Z	5.25	69.65	16.70		150.0	

Certificate No: EX3-3938_0416

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EX330V4-SN3038

October 24, 2019

10460-AAA	LTE-FDD (WCDMA, AMR)	X	1.12	72.77	18.83	0.00	150.0	±9.6 %
		Y	0.73	88.44	13.95		150.0	
		Z	1.01	71.76	16.00		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	126.43	33.33	3.25	80.0	±9.6 %
		Y	100.00	125.87	32.93		80.0	
		Z	90.57	116.03	27.82		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	100.00	25.50	3.23	80.0	±9.6 %
		Y	100.00	109.45	25.28		80.0	
		Z	81.16	80.79	7.88		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	106.70	24.02	3.23	80.0	±9.6 %
		Y	48.13	98.79	22.03		80.0	
		Z	1.03	80.00	7.05		80.0	
10464-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	124.44	32.24	3.23	80.0	±9.6 %
		Y	100.00	123.71	31.77		80.0	
		Z	25.88	86.84	23.07		80.0	
10465-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.41	25.39	3.23	80.0	±9.6 %
		Y	100.00	108.89	24.99		80.0	
		Z	1.05	80.34	7.80		80.0	
10466-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	106.17	23.77	3.23	80.0	±9.6 %
		Y	17.42	87.73	19.16		80.0	
		Z	1.03	80.00	7.00		80.0	
10467-AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	124.67	32.35	3.23	80.0	±9.6 %
		Y	100.00	123.95	31.88		80.0	
		Z	34.96	102.47	23.06		80.0	
10468-AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.58	25.58	3.23	80.0	±9.6 %
		Y	100.00	109.06	25.07		80.0	
		Z	1.06	80.45	7.67		80.0	
10469-AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	106.16	23.77	3.23	80.0	±9.6 %
		Y	19.04	88.11	19.26		80.0	
		Z	1.03	80.00	7.00		80.0	
10470-AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	124.71	32.35	3.23	80.0	±9.6 %
		Y	100.00	123.88	31.88		80.0	
		Z	35.24	102.58	23.97		80.0	
10471-AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.53	25.35	3.23	80.0	±9.6 %
		Y	100.00	109.01	25.04		80.0	
		Z	1.05	80.40	7.64		80.0	
10472-AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.13	23.74	3.23	80.0	±9.6 %
		Y	17.90	88.00	19.21		80.0	
		Z	1.02	80.00	6.99		80.0	
10473-AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	124.67	32.34	3.23	80.0	±9.6 %
		Y	100.00	123.85	31.87		80.0	
		Z	34.67	102.34	23.91		80.0	
10474-AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.54	25.35	3.23	80.0	±9.6 %
		Y	100.00	109.01	25.04		80.0	
		Z	1.05	80.39	7.63		80.0	
10475-AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	106.14	23.74	3.23	80.0	±9.6 %
		Y	17.52	87.75	19.15		80.0	
		Z	1.03	80.00	6.99		80.0	

Certificate No. EX3-3838_Dch18

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EX30V4-SN3038

October 24, 2016

10477-AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	100.07	25.27	3.23	80.0	± 9.6 %
			Y	100.00	100.84	24.96	80.0	
			Z	1.03	80.28	7.55	80.0	
10478-AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	100.09	23.72	3.23	80.0	± 9.6 %
			Y	17.09	87.46	19.06	80.0	
			Z	1.03	60.00	6.98	80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	32.47	106.40	30.35	2.23	80.0	± 9.6 %
			Y	20.42	102.38	28.35	80.0	
			Z	5.33	85.64	21.97	80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	42.90	105.02	27.50	3.23	80.0	± 9.6 %
			Y	20.70	94.12	24.14	80.0	
			Z	6.08	76.74	17.02	80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	32.63	100.01	25.80	3.23	80.0	± 9.6 %
			Y	15.67	89.33	22.38	80.0	
			Z	4.46	72.49	15.13	80.0	
10482-AAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	9.20	97.35	23.04	2.23	80.0	± 9.6 %
			Y	8.94	74.35	17.85	80.0	
			Z	2.70	70.00	15.33	80.0	
10483-AAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	15.24	93.75	23.81	2.23	80.0	± 9.6 %
			Y	12.75	93.78	21.06	80.0	
			Z	3.87	71.04	15.19	80.0	
10484-AAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	12.87	88.08	23.00	2.23	80.0	± 9.6 %
			Y	8.49	81.59	20.36	80.0	
			Z	3.66	70.14	14.84	80.0	
10485-AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.98	85.70	23.28	2.23	80.0	± 9.6 %
			Y	4.36	75.94	19.15	80.0	
			Z	3.22	72.33	17.25	80.0	
10486-AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.38	76.17	18.55	2.23	80.0	± 9.6 %
			Y	3.79	70.74	16.72	80.0	
			Z	3.08	68.57	15.26	80.0	
10487-AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.22	75.40	15.25	2.23	80.0	± 9.6 %
			Y	3.77	70.31	16.54	80.0	
			Z	3.08	68.23	15.10	80.0	
10488-AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.68	81.06	22.14	2.23	80.0	± 9.6 %
			Y	4.49	74.73	19.35	80.0	
			Z	3.59	72.12	17.94	80.0	
10489-AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.86	73.47	19.42	2.23	80.0	± 9.6 %
			Y	4.01	70.32	17.71	80.0	
			Z	3.48	68.92	16.70	80.0	
10490-AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.89	72.56	19.23	2.23	80.0	± 9.6 %
			Y	4.10	70.09	17.04	80.0	
			Z	3.57	68.77	16.66	80.0	
10491-AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.85	76.95	20.70	2.23	80.0	± 9.6 %
			Y	4.52	72.00	18.69	80.0	
			Z	3.82	70.54	17.60	80.0	
10492-AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.94	71.88	18.90	2.23	80.0	± 9.6 %
			Y	4.31	69.40	17.63	80.0	
			Z	3.63	68.32	16.79	80.0	

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FX30V4- SN:3938

October 24, 2018

10493-AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.97	71.38	16.79	2.23	80.0	±9.6 %
		Y	4.37	68.24	17.88		80.0	
		Z	3.90	66.20	16.75		80.0	
10494-AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.05	70.86	21.60	2.23	80.0	±9.6 %
		Y	4.99	74.37	19.18		80.0	
		Z	4.13	72.26	18.02		80.0	
10495-AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.07	72.59	19.18	2.23	80.0	±9.6 %
		Y	4.37	83.87	17.84		80.0	
		Z	3.87	68.70	16.98		80.0	
10496-AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.07	71.80	18.98	2.23	80.0	±9.6 %
		Y	4.43	89.53	17.74		80.0	
		Z	3.95	68.45	16.02		80.0	
10497-AAV	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.77	84.28	21.25	2.23	80.0	±9.6 %
		Y	2.76	89.51	14.63		80.0	
		Z	1.93	65.28	12.27		80.0	
10498-AAV	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	8.10	72.22	15.94	2.23	80.0	±9.6 %
		Y	2.08	63.53	11.20		80.0	
		Z	1.49	60.84	9.11		80.0	
10499-AAV	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.85	71.14	15.38	2.23	80.0	±9.6 %
		Y	2.02	62.88	10.80		80.0	
		Z	1.45	60.40	8.75		80.0	
10500-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.85	82.59	22.44	2.23	80.0	±9.6 %
		Y	4.30	75.81	19.09		80.0	
		Z	3.32	71.89	17.46		80.0	
10501-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.08	74.80	19.39	2.23	80.0	±9.6 %
		Y	5.90	70.69	17.11		80.0	
		Z	3.27	68.83	15.87		80.0	
10502-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.08	74.42	19.19	2.23	80.0	±9.6 %
		Y	3.94	70.38	16.08		80.0	
		Z	3.32	68.68	15.75		80.0	
10503-AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.47	80.76	22.03	2.23	80.0	±9.6 %
		Y	4.42	74.51	19.24		80.0	
		Z	3.53	71.90	17.84		80.0	
10504-AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.84	73.36	19.37	2.23	80.0	±9.6 %
		Y	3.95	70.22	17.05		80.0	
		Z	3.46	68.82	16.64		80.0	
10505-AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.85	72.84	19.17	2.23	80.0	±9.6 %
		Y	4.37	69.08	17.68		80.0	
		Z	3.55	68.67	16.80		80.0	
10506-AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.87	79.65	21.48	2.23	80.0	±9.6 %
		Y	4.94	74.20	19.10		80.0	
		Z	4.10	72.10	17.34		80.0	
10507-AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.05	72.32	19.14	2.23	80.0	±9.6 %
		Y	4.35	69.81	17.80		80.0	
		Z	3.85	66.63	16.94		80.0	

Certificate No. FXS-3938_Q-18

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October 24, 2018

10508-AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.05	71.72	18.53	2.23	80.0	±9.6%
		Y	4.41	69.46	17.70		80.0	
		Z	3.93	68.38	16.87		80.0	
10509-AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.42	76.31	20.23	2.23	80.0	±9.6%
		Y	5.10	72.45	18.45		80.0	
		Z	4.44	71.04	17.56		80.0	
10510-AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.41	71.43	19.82	2.23	80.0	±9.6%
		Y	4.81	69.39	17.73		80.0	
		Z	4.34	68.44	16.99		80.0	
10511-AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.40	70.96	18.67	2.23	80.0	±9.6%
		Y	4.84	69.09	17.65		80.0	
		Z	4.36	68.21	16.94		80.0	
10512-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.47	79.47	21.24	2.23	80.0	±9.6%
		Y	5.46	74.25	18.99		80.0	
		Z	4.64	72.47	17.97		80.0	
10513-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.39	72.08	19.07	2.23	80.0	±9.6%
		Y	4.72	69.76	17.06		80.0	
		Z	4.23	68.68	17.07		80.0	
10514-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.30	71.34	18.83	2.23	80.0	±9.6%
		Y	4.71	69.27	17.73		80.0	
		Z	4.25	68.30	16.97		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.98	54.18	15.67	0.00	150.0	±9.6%
		Y	0.87	52.03	13.65		150.0	
		Z	0.96	54.13	15.35		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	1.07	82.62	23.29	0.00	150.0	±9.6%
		Y	0.42	68.18	13.87		150.0	
		Z	0.78	73.03	21.08		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.89	87.34	17.01	0.00	150.0	±9.6%
		Y	0.70	83.35	13.75		150.0	
		Z	0.83	86.82	16.43		150.0	
10518-AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 8 Mbps, 99pc duty cycle)	X	4.64	66.80	16.38	0.00	150.0	±9.6%
		Y	4.47	66.33	15.94		150.0	
		Z	4.47	67.04	16.24		150.0	
10519-AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.35	67.18	16.51	0.00	150.0	±9.6%
		Y	4.57	66.58	16.08		150.0	
		Z	4.85	67.25	16.34		150.0	
10520-AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.71	67.17	16.49	0.00	150.0	±9.6%
		Y	4.52	66.54	15.99		150.0	
		Z	4.51	67.23	16.28		150.0	
10521-AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.84	67.19	16.44	0.00	150.0	±9.6%
		Y	4.45	66.53	15.97		150.0	
		Z	4.44	67.24	16.27		150.0	
10522-AAE	IEEE 802.11a/n WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.89	67.17	16.48	0.00	150.0	±9.6%
		Y	4.51	66.60	16.04		150.0	
		Z	4.83	67.33	16.35		150.0	

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October 24, 2019

10523-AAB	IEEE 802.11a/b WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.56	67.08	16.34	0.00	150.0	± 9.6 %
		Y	4.38	66.45	15.88		150.0	
		Z	4.39	67.23	16.22		150.0	
10524-AAB	IEEE 802.11a/b WiFi 5 GHz (OFDM, 64 Mbps, 99pc duty cycle)	X	4.64	67.13	16.46	0.00	150.0	± 9.6 %
		Y	4.45	66.52	16.01		150.0	
		Z	4.44	67.24	16.32		150.0	
10525-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.80	66.17	16.06	0.00	150.0	± 9.6 %
		Y	4.43	65.55	15.80		150.0	
		Z	4.44	66.33	15.94		150.0	
10526-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.90	66.57	16.20	0.00	150.0	± 9.6 %
		Y	4.93	65.93	15.75		150.0	
		Z	4.61	66.88	16.07		150.0	
10527-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.72	66.55	16.18	0.00	150.0	± 9.6 %
		Y	4.52	65.88	15.89		150.0	
		Z	4.53	66.66	16.02		150.0	
10528-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.73	66.57	16.19	0.00	150.0	± 9.6 %
		Y	4.54	65.90	15.72		150.0	
		Z	4.56	66.67	16.05		150.0	
10529-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.75	66.57	16.19	0.00	150.0	± 9.6 %
		Y	4.54	65.90	15.72		150.0	
		Z	4.56	66.67	16.05		150.0	
10530-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 99pc duty cycle)	X	4.74	66.72	16.22	0.00	150.0	± 9.6 %
		Y	4.53	66.01	15.73		150.0	
		Z	4.53	66.77	16.06		150.0	
10532-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.80	66.59	16.17	0.00	150.0	± 9.6 %
		Y	4.39	65.86	15.66		150.0	
		Z	4.40	66.64	16.01		150.0	
10533-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.75	66.60	16.17	0.00	150.0	± 9.6 %
		Y	4.65	65.94	15.70		150.0	
		Z	4.56	66.72	16.05		150.0	
10534-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.24	66.67	16.21	0.00	150.0	± 9.6 %
		Y	5.08	65.08	15.82		150.0	
		Z	5.06	66.70	16.06		150.0	
10535-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.31	66.81	16.26	0.00	150.0	± 9.6 %
		Y	5.14	66.24	15.89		150.0	
		Z	5.12	66.85	16.13		150.0	
10536-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.15	66.81	16.25	0.00	150.0	± 9.6 %
		Y	5.01	66.18	15.84		150.0	
		Z	5.06	66.84	16.11		150.0	
10537-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.24	66.77	16.23	0.00	150.0	± 9.6 %
		Y	5.07	66.17	15.84		150.0	
		Z	5.06	66.79	16.06		150.0	
10538-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.35	66.82	16.29	0.00	150.0	± 9.6 %
		Y	5.17	66.21	15.90		150.0	
		Z	5.14	66.79	16.12		150.0	
10540-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.25	66.78	16.25	0.00	150.0	± 9.6 %
		Y	5.09	66.21	15.91		150.0	
		Z	5.07	66.79	16.13		150.0	

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October 24, 2018

10541-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.24	66.89	16.24	0.00	150.0	±9.6%
		Y	5.06	66.08	15.84		150.0	
		Z	5.05	66.09	16.08		150.0	
10542-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.38	66.72	16.27	0.00	150.0	±9.6%
		Y	5.22	66.16	15.90		150.0	
		Z	5.20	66.74	16.12		150.0	
10543-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.47	66.74	16.29	0.00	150.0	±9.6%
		Y	5.30	66.21	15.95		150.0	
		Z	5.27	66.76	16.14		150.0	
10544-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.52	66.77	16.19	0.00	150.0	±9.6%
		Y	5.36	66.20	15.82		150.0	
		Z	5.37	66.80	16.04		150.0	
10545-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.72	67.18	16.31	0.00	150.0	±9.6%
		Y	5.58	66.63	15.99		150.0	
		Z	5.53	67.12	16.15		150.0	
10546-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.61	67.04	16.28	0.00	150.0	±9.6%
		Y	5.45	66.48	15.91		150.0	
		Z	5.43	66.88	16.10		150.0	
10547-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.70	67.12	16.31	0.00	150.0	±9.6%
		Y	5.53	66.48	15.92		150.0	
		Z	5.50	67.02	16.11		150.0	
10548-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.93	67.96	16.70	0.00	150.0	±9.6%
		Y	5.82	67.53	16.41		150.0	
		Z	5.84	67.83	16.39		150.0	
10550-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.53	67.00	16.27	0.00	150.0	±9.6%
		Y	5.47	66.43	15.91		150.0	
		Z	5.45	67.00	16.12		150.0	
10551-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.55	67.07	16.26	0.00	150.0	±9.6%
		Y	5.48	66.48	15.89		150.0	
		Z	5.46	67.04	16.10		150.0	
10552-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.55	66.86	16.18	0.00	150.0	±9.6%
		Y	5.39	66.29	15.90		150.0	
		Z	5.38	66.83	16.04		150.0	
10553-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.65	66.91	16.22	0.00	150.0	±9.6%
		Y	5.48	66.32	15.88		150.0	
		Z	5.47	66.91	16.07		150.0	
10554-AAC	IEEE 802.11ac WiFi (100MHz, MCS0, 99pc duty cycle)	X	5.92	67.13	16.27	0.00	150.0	±9.6%
		Y	5.75	66.58	15.93		150.0	
		Z	5.77	67.13	16.11		150.0	
10555-AAC	IEEE 802.11ac WiFi (100MHz, MCS1, 99pc duty cycle)	X	6.06	67.44	16.39	0.00	150.0	±9.6%
		Y	5.92	66.89	16.08		150.0	
		Z	5.88	67.38	16.21		150.0	
10556-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.07	67.47	16.40	0.00	150.0	±9.6%
		Y	5.94	66.94	16.07		150.0	
		Z	5.90	67.42	16.23		150.0	
10557-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	6.08	67.43	16.40	0.00	150.0	±9.6%
		Y	5.91	66.85	16.05		150.0	
		Z	5.87	67.36	16.22		150.0	

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October 24, 2018

10558-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	0.11	67.90	16.50	0.00	150.0	±9.6%
		Y	5.96	67.02	16.15		150.0	
		Z	5.91	67.50	16.30		150.0	
10560-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	5.11	67.48	16.47	0.00	150.0	±9.6%
		Y	5.95	66.87	16.11		150.0	
		Z	5.92	67.38	16.28		150.0	
10561-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.02	67.40	16.48	0.00	150.0	±9.6%
		Y	5.87	66.94	16.13		150.0	
		Z	5.84	67.33	16.29		150.0	
10562-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	8.19	67.52	16.09	0.00	150.0	±9.6%
		Y	8.01	67.26	16.35		150.0	
		Z	5.93	67.63	16.44		150.0	
10563-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	0.47	68.29	16.80	0.00	150.0	±9.6%
		Y	8.34	67.82	16.58		150.0	
		Z	8.09	67.70	16.43		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.97	66.98	16.53	0.46	150.0	±9.6%
		Y	4.81	66.46	16.14		150.0	
		Z	4.78	67.02	16.32		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	5.23	67.46	16.85	0.46	150.0	±9.6%
		Y	5.05	66.93	16.47		150.0	
		Z	5.01	67.49	16.68		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	5.06	67.34	16.89	0.46	150.0	±9.6%
		Y	4.88	66.77	16.28		150.0	
		Z	4.84	67.32	16.46		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	5.08	67.74	17.04	0.46	150.0	±9.6%
		Y	4.81	67.15	16.63		150.0	
		Z	4.89	67.60	16.87		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.87	67.07	16.45	0.46	150.0	±9.6%
		Y	4.80	66.54	16.05		150.0	
		Z	4.74	67.03	16.18		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	5.03	67.76	17.06	0.46	150.0	±9.6%
		Y	4.86	67.22	16.88		150.0	
		Z	4.85	67.93	16.95		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	5.05	67.82	17.01	0.46	150.0	±9.6%
		Y	4.80	67.08	16.62		150.0	
		Z	4.88	67.73	16.86		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.32	66.77	17.12	0.46	130.0	±9.6%
		Y	1.14	64.25	15.06		130.0	
		Z	1.11	65.90	15.86		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	1.36	67.60	17.59	0.46	130.0	±9.6%
		Y	1.16	64.80	15.36		130.0	
		Z	1.15	65.98	16.26		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	100.00	150.25	40.35	0.46	130.0	±9.6%
		Y	1.94	81.60	20.21		130.0	
		Z	5.37	101.46	27.76		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	1.86	71.63	22.17	0.46	130.0	±9.6%
		Y	1.28	70.31	17.98		130.0	
		Z	1.45	73.82	20.12		130.0	

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EX30V4-SN:3938

October 24, 2019

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.77	66.82	16.62	0.46	130.0	±9.6%
		Y	4.52	66.32	16.23		130.0	
		Z	4.56	66.75	16.29		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.80	66.99	16.69	0.46	130.0	±9.6%
		Y	4.54	66.47	16.29		130.0	
		Z	4.58	66.94	16.36		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	5.03	67.31	16.66	0.46	130.0	±9.6%
		Y	4.85	66.76	16.47		130.0	
		Z	4.78	67.21	16.54		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.93	67.59	16.98	0.46	130.0	±9.6%
		Y	4.75	66.94	16.57		130.0	
		Z	4.66	67.42	16.68		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.69	66.84	16.33	0.46	130.0	±9.6%
		Y	4.62	66.24	15.89		130.0	
		Z	4.43	66.57	15.89		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.71	66.81	16.32	0.46	130.0	±9.6%
		Y	4.57	66.20	15.90		130.0	
		Z	4.47	66.59	15.90		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.63	67.58	16.95	0.46	130.0	±9.6%
		Y	4.65	66.88	16.51		130.0	
		Z	4.59	67.47	16.62		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.64	66.58	16.12	0.46	130.0	±9.6%
		Y	4.47	66.00	15.67		130.0	
		Z	4.36	66.25	15.65		130.0	
10583-AAB	IEEE 802.11ah WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.77	66.82	16.63	0.46	130.0	±9.6%
		Y	4.62	66.32	16.23		130.0	
		Z	4.56	66.75	16.29		130.0	
10584-AAB	IEEE 802.11ah WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.80	66.99	16.69	0.46	130.0	±9.6%
		Y	4.64	66.47	16.29		130.0	
		Z	4.58	66.94	16.36		130.0	
10585-AAB	IEEE 802.11ah WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	5.02	67.31	16.66	0.46	130.0	±9.6%
		Y	4.85	66.78	16.47		130.0	
		Z	4.78	67.21	16.54		130.0	
10586-AAB	IEEE 802.11ah WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.93	67.59	16.98	0.46	130.0	±9.6%
		Y	4.75	66.94	16.57		130.0	
		Z	4.69	67.42	16.68		130.0	
10587-AAB	IEEE 802.11ah WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.69	66.84	16.33	0.46	130.0	±9.6%
		Y	4.52	66.24	15.89		130.0	
		Z	4.43	66.57	15.89		130.0	
10588-AAB	IEEE 802.11ah WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.74	66.81	16.32	0.46	130.0	±9.6%
		Y	4.57	66.25	15.90		130.0	
		Z	4.47	66.59	15.90		130.0	
10589-AAB	IEEE 802.11ah WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.83	67.59	16.95	0.46	130.0	±9.6%
		Y	4.65	66.88	16.51		130.0	
		Z	4.59	67.47	16.62		130.0	
10590-AAB	IEEE 802.11ah WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.64	66.58	16.12	0.46	130.0	±9.6%
		Y	4.47	66.00	15.67		130.0	
		Z	4.36	66.25	15.65		130.0	

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EX3DVH-SN3938

October 24, 2018

10581-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.82	66.87	16.71	0.46	130.0	± 9.6 %
		Y	4.77	66.38	16.34		130.0	
		Z	4.71	66.82	16.40		130.0	
10592-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	5.09	67.22	16.84	0.46	130.0	± 9.6 %
		Y	4.93	66.72	16.47		130.0	
		Z	4.86	67.15	16.53		130.0	
10593-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	5.07	67.17	16.74	0.46	130.0	± 9.6 %
		Y	4.85	66.64	16.36		130.0	
		Z	4.77	67.04	16.40		130.0	
10594-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	5.07	67.32	16.89	0.46	130.0	± 9.6 %
		Y	4.90	66.80	16.51		130.0	
		Z	4.83	67.23	16.57		130.0	
10595-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	5.05	67.29	16.79	0.46	130.0	± 9.6 %
		Y	4.87	66.75	16.40		130.0	
		Z	4.80	67.17	16.46		130.0	
10596-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.88	67.29	16.80	0.46	130.0	± 9.6 %
		Y	4.81	66.75	16.40		130.0	
		Z	4.73	67.16	16.45		130.0	
10597-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.94	67.23	16.70	0.46	130.0	± 9.6 %
		Y	4.76	66.66	16.29		130.0	
		Z	4.68	67.05	16.33		130.0	
10598-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.92	67.49	16.96	0.46	130.0	± 9.6 %
		Y	4.74	66.90	16.55		130.0	
		Z	4.66	67.34	16.63		130.0	
10599-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.58	67.43	16.88	0.46	130.0	± 9.6 %
		Y	5.44	66.96	16.58		130.0	
		Z	5.34	67.25	16.55		130.0	
10600-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.74	67.88	17.07	0.46	130.0	± 9.6 %
		Y	5.60	67.47	16.79		130.0	
		Z	5.43	67.51	16.64		130.0	
10601-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.61	67.61	16.95	0.46	130.0	± 9.6 %
		Y	5.48	67.17	16.66		130.0	
		Z	5.35	67.37	16.60		130.0	
10602-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.70	67.56	16.88	0.46	130.0	± 9.6 %
		Y	5.56	67.17	16.58		130.0	
		Z	5.45	67.40	16.52		130.0	
10603-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.60	67.93	17.16	0.46	130.0	± 9.6 %
		Y	5.65	67.49	16.87		130.0	
		Z	5.62	67.60	16.91		130.0	
10604-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.59	67.37	16.87	0.46	130.0	± 9.6 %
		Y	5.44	66.92	16.57		130.0	
		Z	5.37	67.27	16.55		130.0	
10605-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.68	67.64	17.00	0.46	130.0	± 9.6 %
		Y	5.36	67.28	16.75		130.0	
		Z	5.43	67.44	16.88		130.0	
10606-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.46	67.16	16.84	0.46	130.0	± 9.6 %
		Y	5.33	66.89	16.30		130.0	
		Z	5.20	66.97	16.23		130.0	

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EX3DV4-SN3938

October 24, 2018

10607-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.76	66.21	16.35	0.46	130.0	±9.6%
		Y	4.60	65.66	15.94		130.0	
		Z	4.55	66.17	16.05		130.0	
10608-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.97	66.64	16.51	0.46	130.0	±9.6%
		Y	4.79	66.07	16.11		130.0	
		Z	4.73	66.66	16.21		130.0	
10609-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.86	66.52	16.38	0.46	130.0	±9.6%
		Y	4.68	65.52	15.94		130.0	
		Z	4.62	66.40	16.04		130.0	
10610-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.91	66.68	16.54	0.46	130.0	±9.6%
		Y	4.73	65.06	16.11		130.0	
		Z	4.67	65.56	16.22		130.0	
10611-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.83	66.50	16.39	0.46	130.0	±9.6%
		Y	4.65	65.89	15.96		130.0	
		Z	4.59	66.36	16.05		130.0	
10612-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.85	66.66	16.44	0.46	130.0	±9.6%
		Y	4.66	65.04	16.00		130.0	
		Z	4.59	66.49	16.05		130.0	
10613-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.86	66.57	16.33	0.46	130.0	±9.6%
		Y	4.67	65.94	15.89		130.0	
		Z	4.59	66.36	15.95		130.0	
10614-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.80	66.77	16.57	0.46	130.0	±9.6%
		Y	4.60	66.11	16.11		130.0	
		Z	4.55	66.63	16.24		130.0	
10615-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.83	66.31	16.17	0.46	130.0	±9.6%
		Y	4.65	65.72	15.74		130.0	
		Z	4.57	66.14	15.79		130.0	
10616-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.40	66.72	16.51	0.46	130.0	±9.6%
		Y	5.25	66.20	16.17		130.0	
		Z	5.18	66.58	16.21		130.0	
10617-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.46	66.82	16.52	0.46	130.0	±9.6%
		Y	5.32	66.35	16.21		130.0	
		Z	5.23	66.70	16.24		130.0	
10618-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.36	66.91	16.59	0.46	130.0	±9.6%
		Y	5.20	66.37	16.23		130.0	
		Z	5.13	66.77	16.30		130.0	
10619-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.38	66.73	16.44	0.46	130.0	±9.6%
		Y	5.23	66.21	16.09		130.0	
		Z	5.14	66.53	16.10		130.0	
10620-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.40	66.81	16.52	0.46	130.0	±9.6%
		Y	5.33	66.26	16.17		130.0	
		Z	5.23	66.56	16.17		130.0	
10621-AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.47	66.88	16.68	0.46	130.0	±9.6%
		Y	5.31	66.35	16.33		130.0	
		Z	5.24	66.76	16.40		130.0	
10622-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.47	67.00	16.72	0.46	130.0	±9.6%
		Y	5.33	66.52	16.41		130.0	
		Z	5.25	66.89	16.45		130.0	

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EX3DV4- SN:3938

October 24, 2018

10623-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.38	66.59	16.41	0.46	130.0	± 9.8 %
		Y	5.20	66.04	16.05		130.0	
		Z	5.12	66.39	16.07		130.0	
10624-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.54	66.74	16.54	0.46	130.0	± 9.8 %
		Y	5.40	66.26	16.22		130.0	
		Z	5.31	66.59	16.23		130.0	
10625-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.91	67.68	17.05	0.46	130.0	± 9.8 %
		Y	5.81	67.35	16.82		130.0	
		Z	5.60	67.33	16.66		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.68	66.76	16.44	0.46	130.0	± 9.8 %
		Y	5.54	66.26	16.12		130.0	
		Z	5.47	66.64	16.16		130.0	
10627-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.50	67.26	16.84	0.46	130.0	± 9.8 %
		Y	5.29	66.84	16.38		130.0	
		Z	5.67	67.08	16.34		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.73	66.91	16.42	0.46	130.0	± 9.8 %
		Y	5.58	66.38	16.08		130.0	
		Z	5.49	66.66	16.06		130.0	
10629-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.81	66.97	16.43	0.46	130.0	± 9.8 %
		Y	5.67	66.46	16.13		130.0	
		Z	5.56	66.69	16.07		130.0	
10630-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.26	68.50	17.19	0.46	130.0	± 9.8 %
		Y	6.18	68.17	16.96		130.0	
		Z	5.83	67.70	16.58		130.0	
10631-AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.19	68.30	17.32	0.46	130.0	± 9.8 %
		Y	6.03	67.83	16.98		130.0	
		Z	5.86	67.52	16.69		130.0	
10632-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	6.08	67.37	16.83	0.46	130.0	± 9.8 %
		Y	5.75	66.68	16.53		130.0	
		Z	5.67	67.23	16.57		130.0	
10633-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.81	67.14	16.85	0.46	130.0	± 9.8 %
		Y	5.64	66.53	16.18		130.0	
		Z	5.57	66.85	16.21		130.0	
10634-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.79	67.15	16.62	0.46	130.0	± 9.8 %
		Y	5.63	66.56	16.26		130.0	
		Z	5.56	66.95	16.31		130.0	
10635-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.65	66.48	16.03	0.46	130.0	± 9.8 %
		Y	5.52	65.92	15.67		130.0	
		Z	6.11	66.16	15.08		130.0	
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.07	67.13	16.52	0.46	130.0	± 9.8 %
		Y	5.95	66.65	16.23		130.0	
		Z	5.87	66.97	16.22		130.0	
10637-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.23	67.50	16.88	0.46	130.0	± 9.8 %
		Y	6.11	67.04	16.40		130.0	
		Z	6.00	67.28	16.36		130.0	
10638-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.23	67.47	16.85	0.46	130.0	± 9.8 %
		Y	6.11	67.00	16.38		130.0	
		Z	6.01	67.29	16.34		130.0	

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EX3DV4- 5N3038

October 24, 2018

10639-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 80pc duty cycle)	X	6.23	87.49	18.70	0.46	130.0	±9.6%
		Y	6.09	88.97	18.39		130.0	
		Z	6.00	87.25	18.37		130.0	
10640-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.25	87.63	18.67	0.46	130.0	±9.6%
		Y	6.11	87.01	18.35		130.0	
		Z	5.99	87.21	18.29		130.0	
10641-AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.25	87.31	18.67	0.46	130.0	±9.6%
		Y	6.13	86.85	18.30		130.0	
		Z	6.03	87.11	18.28		130.0	
10642-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.33	87.65	18.91	0.46	130.0	±9.6%
		Y	6.18	87.13	18.60		130.0	
		Z	6.10	87.47	18.62		130.0	
10643-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.15	87.31	18.66	0.46	130.0	±9.6%
		Y	6.02	86.82	18.34		130.0	
		Z	5.91	87.08	18.30		130.0	
10644-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.35	87.93	18.98	0.46	130.0	±9.6%
		Y	6.21	87.40	18.65		130.0	
		Z	6.05	87.49	18.53		130.0	
10645-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.71	88.51	17.21	0.46	130.0	±9.6%
		Y	6.68	88.38	17.09		130.0	
		Z	6.25	87.70	18.59		130.0	
10646-AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	86.17	140.32	45.40	9.30	60.0	±9.6%
		Y	39.04	122.64	40.63		60.0	
		Z	18.19	104.43	33.83		60.0	
10647-AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	80.46	139.77	45.45	9.30	60.0	±9.6%
		Y	36.72	121.64	40.60		60.0	
		Z	16.41	102.88	33.52		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.87	68.51	13.20	0.00	150.0	±9.6%
		Y	0.56	61.72	9.15		150.0	
		Z	0.69	54.69	11.24		150.0	
10652-AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	4.31	65.00	17.78	2.23	80.0	±9.6%
		Y	3.89	67.35	16.71		80.0	
		Z	3.64	67.10	16.29		80.0	
10653-AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.72	67.91	17.64	2.23	80.0	±9.6%
		Y	4.40	66.72	16.87		80.0	
		Z	4.16	66.48	16.48		80.0	
10654-AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.64	67.52	17.60	2.23	80.0	±9.6%
		Y	4.35	66.39	16.88		80.0	
		Z	4.14	66.16	16.50		80.0	
10655-AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.89	67.54	17.64	2.23	80.0	±9.6%
		Y	4.42	66.40	16.92		80.0	
		Z	4.18	66.14	16.53		80.0	
10658-AAE	Pulse Waveform (200Hz, 10%)	X	100.00	118.89	30.15	10.00	50.0	±9.6%
		Y	27.27	97.34	24.81		50.0	
		Z	5.41	73.00	14.99		50.0	
10659-AAE	Pulse Waveform (200Hz, 20%)	X	100.00	114.06	27.78	6.29	60.0	±9.6%
		Y	100.00	111.88	26.70		60.0	
		Z	6.58	74.88	14.60		60.0	

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EX3DV4-- SN:3938

October 24, 2018

10660-AAA	Pulse Waveform (200Hz, 40%)	X	100.00	113.57	26.20	3.98	80.0	± 9.6 %
		Y	100.00	108.48	23.71		80.0	
		Z	17.55	86.88	16.64		80.0	
10661-AAA	Pulse Waveform (200Hz, 60%)	X	100.00	116.76	26.28	2.22	100.0	± 9.6 %
		Y	100.00	105.43	21.11		100.0	
		Z	100.00	100.82	18.62		100.0	
10662-AAA	Pulse Waveform (200Hz, 80%)	X	100.00	127.89	28.95	0.97	120.0	± 9.6 %
		Y	3.43	74.94	10.65		120.0	
		Z	100.00	98.67	16.42		120.0	
10670-AAA	Bluetooth Low Energy	X	100.00	117.22	26.83	2.19	100.0	± 9.6 %
		Y	100.00	107.88	22.47		100.0	
		Z	100.00	104.58	20.49		100.0	

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

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client: **Auden**

Certificate No: **EX3-3801_Jun18**

CALIBRATION CERTIFICATE

Object: **EX3DV4 SN:3801**

Calibration procedure(s): **QA CAL-01 v9, QA CAL-12 v9, QA CAL-14 v4, QA CAL-23 v5,
QA CAL-25 v6
Calibration procedure for dosimetric E-field probes**

Calibration date: **June 26, 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 (MATE 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-201	SN 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-291	SN 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN SS277 (20x)	04-Apr-18 (No. 217-02662)	Apr-19
Reference Probe ES3DV2	SN 3093	30-Dec-17 (No. ES3-3093_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 GB41295874	05-Apr-18 (in house check Jun-18)	In house check Jun-20
Power sensor E4412A	SN MY41406087	05-Apr-18 (in house check Jun-18)	In house check Jun-20
Power sensor E4412A	SN 000110210	05-Apr-18 (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 HP 8753E	SN 1483794910	18-Jun-01 (in house check Oct-17)	In house check Oct-18

Calibrated by: **Name: Claudio Luchini, Function: Laboratory Technician, Signature: [Signature]**

Approved by: **Name: Kaja Pekovic, Function: Technical Manager, Signature: [Signature]**

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

Issued, June 27, 2018

Certificate No: EX3-3801_Jun18

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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/duy, cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization ϕ	rotation around probe axis
Polarization θ	θ relation around an axis that is in the plane normal to probe axis (at measurement center). i.e., $\theta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- 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
- 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
- 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
- K2B 885664 "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}: Assessed for E-field polarization ($\theta = 0$) ($f \leq 900$ 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 E-field uncertainty inside TSL (see below ConvF).
- NORM₀: $\text{NORM}_0 = \text{NORM}_{x,y,z} \cdot \text{frequency response}$ (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.
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; V_{RF,x,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 ± 80 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMs (no uncertainty required).

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EX3DV4 – SN:3801

June 26, 2018

Probe EX3DV4

SN:3801

Manufactured: April 5, 2011
Calibrated: June 26, 2018

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

Certificate No: EX3-3801_Jun18

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EX3DV4- SN:3801

June 26, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3801**Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.53	0.57	0.52	$\pm 10.1\%$
DCP $(mV)^B$	101.8	101.3	96.8	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu V}$	C	D dB	VR mV	Unc ^C (k=2)
0	CW	X	0.0	0.0	1.0	0.00	166.4	$\pm 3.0\%$
		Y	0.0	0.0	1.0		173.4	
		Z	0.0	0.0	1.0		164.7	

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	43.02	327.9	36.76	18.19	0.894	5.085	0.000	0.523	1.011
Y	48.75	365.0	35.77	24.10	0.825	5.100	0.855	0.468	1.008
Z	43.58	332.6	36.84	15.47	0.783	5.090	0.000	0.516	1.010

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

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EX3DV4-SN:3801

June 26, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3801

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^e	Conductivity (S/m) ^f	ConvF X	ConvF Y	ConvF Z	Alpha ^g	Depth (mm) ^h	Unc (k=2)
150	52.3	0.76	11.05	11.05	11.05	0.00	1.00	± 13.3 %
450	43.5	0.87	9.90	9.90	9.90	0.15	1.30	± 13.3 %
750	41.9	0.89	9.50	9.50	9.50	0.43	0.96	± 12.0 %
835	41.5	0.90	9.08	9.08	9.08	0.51	0.85	± 12.0 %
900	41.5	0.97	8.95	8.95	8.95	0.51	0.87	± 12.0 %
1450	40.5	1.20	8.17	8.17	8.17	0.33	0.80	± 12.0 %
1750	40.1	1.37	8.10	8.10	8.10	0.39	0.84	± 12.0 %
1900	40.0	1.40	7.78	7.78	7.78	0.36	0.84	± 12.0 %
2100	39.8	1.49	7.90	7.90	7.90	0.35	0.80	± 12.0 %
2450	39.2	1.80	7.08	7.08	7.08	0.35	0.86	± 12.0 %
2600	39.0	1.96	6.94	6.94	6.94	0.40	0.86	± 12.0 %
3500	37.9	2.91	6.88	6.88	6.88	0.25	1.20	± 13.1 %
5200	36.0	4.66	4.93	4.93	4.93	0.40	1.80	± 13.1 %
5300	35.9	4.76	4.70	4.70	4.70	0.40	1.80	± 13.1 %
5500	35.6	4.96	4.82	4.82	4.82	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.69	4.69	4.69	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.61	4.61	4.61	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.

^e 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.

^h 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.

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EX3DV4- SN:3801

June 26, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3801

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^e	Conductivity (S/m) ^e	ConvF X	ConvF Y	ConvF Z	Alpha ^d	Depth (mm)	Unc (k=2)
150	61.9	0.80	10.74	10.74	10.74	0.00	1.00	± 13.3 %
450	56.7	0.94	10.16	10.16	10.16	0.09	1.25	± 13.3 %
750	55.5	0.96	9.19	9.19	9.19	0.49	0.83	± 12.0 %
835	55.2	0.97	9.04	9.04	9.04	0.53	0.80	± 12.0 %
900	55.0	1.05	9.01	9.01	9.01	0.44	0.89	± 12.0 %
1450	54.0	1.30	7.93	7.93	7.93	0.33	0.80	± 12.0 %
1750	53.4	1.49	7.68	7.68	7.68	0.49	0.82	± 12.0 %
1900	53.3	1.52	7.37	7.37	7.37	0.38	0.86	± 12.0 %
2100	53.2	1.62	7.79	7.79	7.79	0.42	0.80	± 12.0 %
2450	52.7	1.95	7.19	7.19	7.19	0.41	0.84	± 12.0 %
2600	52.5	2.16	7.01	7.01	7.01	0.30	0.99	± 12.0 %
3500	51.3	3.31	6.90	6.90	6.90	0.25	1.25	± 13.1 %
5200	49.0	5.30	4.23	4.23	4.23	0.50	1.90	± 13.1 %
5300	48.9	5.42	4.09	4.09	4.09	0.50	1.90	± 13.1 %
5500	48.6	5.65	3.94	3.94	3.94	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.80	3.80	3.80	0.50	1.90	± 13.1 %
5800	48.2	6.00	3.95	3.95	3.95	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.

^e 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.

^d 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.

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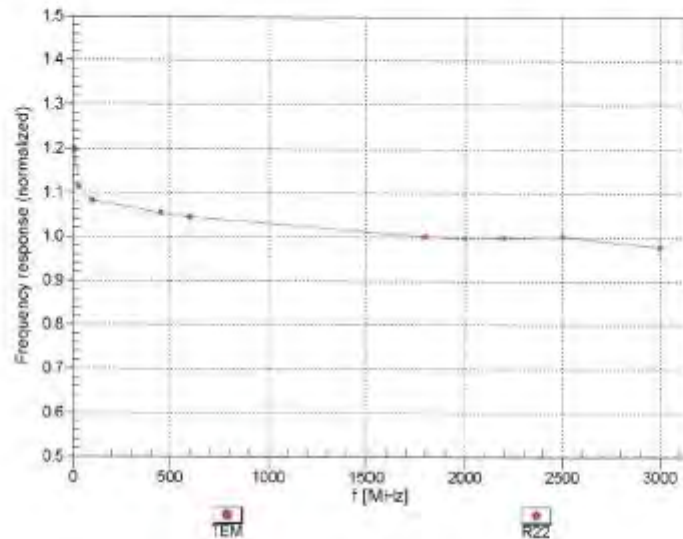
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EX3DV4-SN:3801

June 26, 2018

Frequency Response of E-Field (TEM-Cell:if1110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 5.3\%$ ($k=2$)

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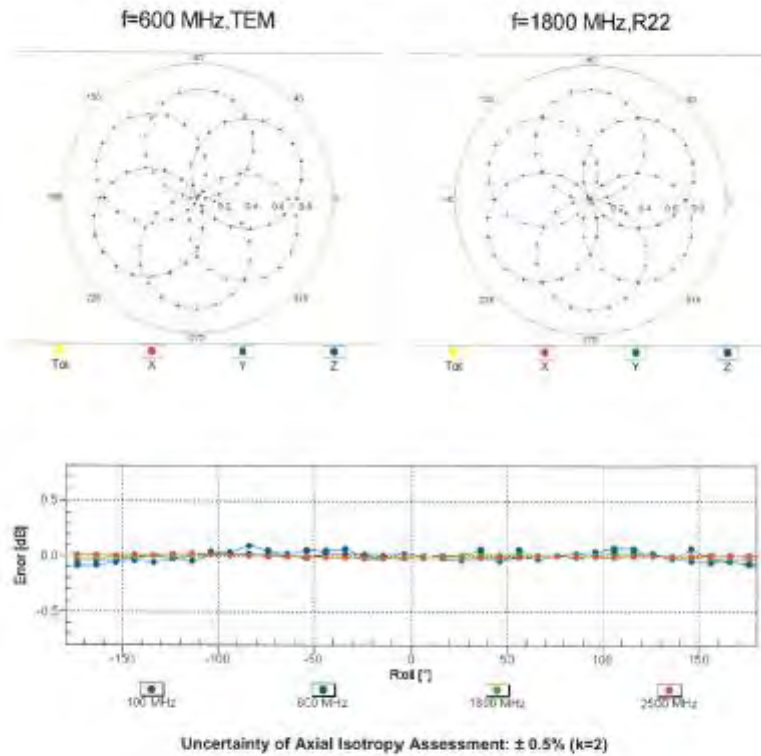
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Receiving Pattern (ϕ), $\theta = 0^\circ$



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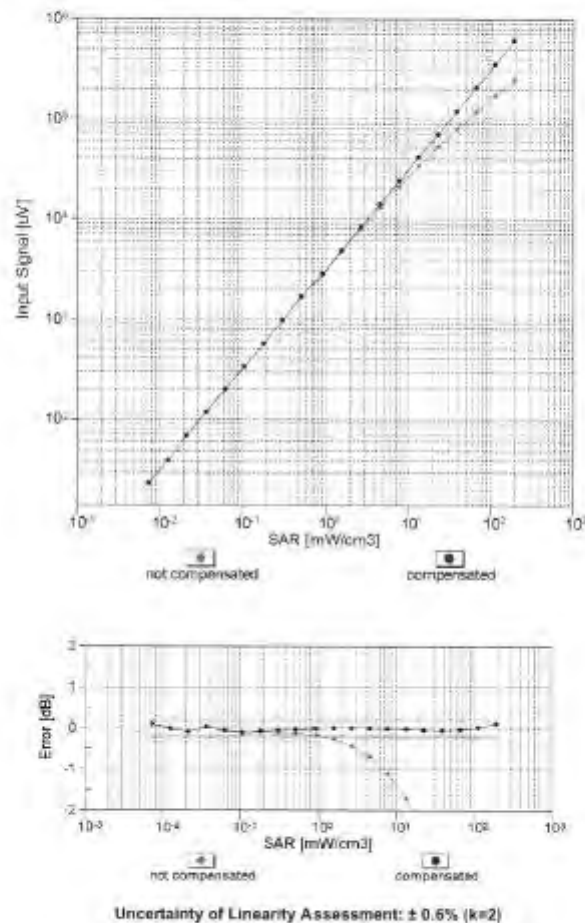
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Dynamic Range f(SAR_{head}) (TEM cell, f_{eval} = 1900 MHz)



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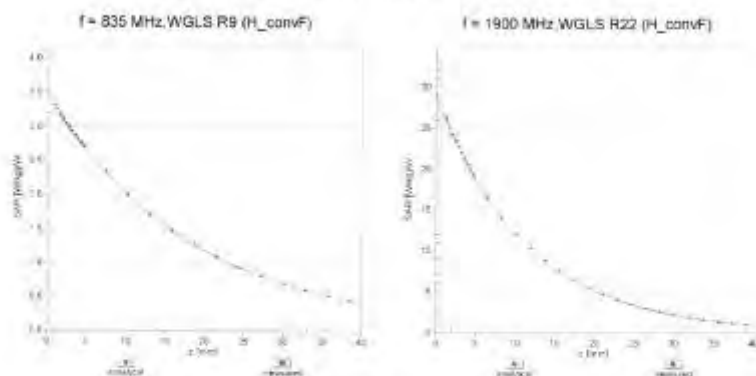
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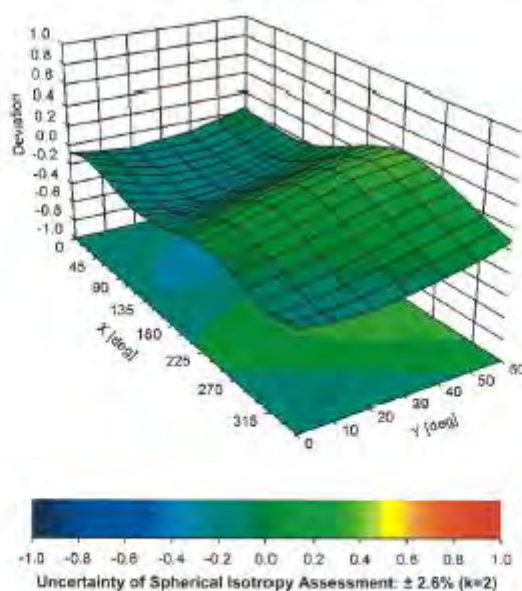
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Conversion Factor Assessment



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



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EX3DV4- SN:3801

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3801**Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	126.3
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

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Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB-μV	C	D dB	VR mV	Max Unc ^s (k=2)
D	CW	X	0.00	0.00	1.00	0.00	166.4	± 3.0 %
		Y	0.00	0.00	1.00		173.4	
		Z	0.00	0.00	1.00		164.7	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	3.37	69.78	12.74	10.00	20.0	± 9.6 %
		Y	6.44	76.86	15.76		20.0	
		Z	3.21	69.39	12.43		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	0.83	64.38	12.95	0.00	150.0	± 9.6 %
		Y	0.99	67.13	14.98		150.0	
		Z	0.83	64.35	12.93		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.10	62.97	14.26	0.41	150.0	± 9.6 %
		Y	1.20	64.42	15.48		150.0	
		Z	1.09	62.83	14.21		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.80	66.58	16.95	1.46	150.0	± 9.6 %
		Y	4.93	66.87	17.23		150.0	
		Z	4.79	66.54	16.94		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	100.00	116.48	28.92	9.39	50.0	± 9.6 %
		Y	100.00	116.87	29.39		50.0	
		Z	100.00	116.44	28.77		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	116.20	28.84	9.57	50.0	± 9.6 %
		Y	100.00	116.71	29.35		50.0	
		Z	100.00	116.08	28.65		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	113.53	26.55	6.56	60.0	± 9.6 %
		Y	100.00	114.45	27.34		60.0	
		Z	100.00	114.34	26.74		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	4.69	72.18	26.92	12.57	50.0	± 9.6 %
		Y	15.97	110.85	44.06		50.0	
		Z	4.44	71.01	26.44		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	11.01	95.24	33.64	9.56	60.0	± 9.6 %
		Y	27.30	117.67	41.25		60.0	
		Z	9.87	93.32	33.15		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	112.38	25.28	4.80	80.0	± 9.6 %
		Y	100.00	114.07	26.45		80.0	
		Z	100.00	113.67	25.65		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	111.82	24.34	3.55	100.0	± 9.6 %
		Y	100.00	114.73	26.07		100.0	
		Z	100.00	113.39	24.82		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	6.96	84.53	28.40	7.80	80.0	± 9.6 %
		Y	12.11	97.00	33.17		80.0	
		Z	6.28	82.79	27.89		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	111.17	25.02	5.30	70.0	± 9.6 %
		Y	100.00	112.86	26.19		70.0	
		Z	100.00	112.10	25.26		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	106.29	20.26	1.88	100.0	± 9.6 %
		Y	100.00	113.55	24.19		100.0	
		Z	100.00	106.78	20.26		100.0	

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10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	101.22	17.75	1.17	100.0	± 9.6 %
		Y	100.00	116.20	24.29		100.0	
		Z	100.00	100.56	17.31		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	18.92	99.43	26.35	5.30	70.0	± 9.6 %
		Y	100.00	126.11	33.82		70.0	
		Z	20.67	102.09	27.36		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	3.08	75.57	16.71	1.88	100.0	± 9.6 %
		Y	9.98	92.25	23.17		100.0	
		Z	2.90	75.55	16.88		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	1.83	70.29	14.26	1.17	100.0	± 9.6 %
		Y	4.00	80.96	19.27		100.0	
		Z	1.74	70.11	14.32		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	30.39	106.85	28.45	5.30	70.0	± 9.6 %
		Y	100.00	126.44	33.98		70.0	
		Z	35.81	110.82	29.76		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	2.84	74.70	16.36	1.88	100.0	± 9.6 %
		Y	8.90	90.73	22.69		100.0	
		Z	2.69	74.65	16.52		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	1.85	70.62	14.50	1.17	100.0	± 9.6 %
		Y	4.14	81.72	19.65		100.0	
		Z	1.75	70.43	14.57		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	1.12	65.78	11.74	0.00	150.0	± 9.6 %
		Y	1.72	71.14	15.18		150.0	
		Z	1.13	65.83	11.81		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	100.00	111.21	25.70	7.78	50.0	± 9.6 %
		Y	100.00	112.25	26.50		50.0	
		Z	100.00	111.42	25.85		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.04	119.18	11.18	0.00	150.0	± 9.6 %
		Y	0.01	110.75	9.59		150.0	
		Z	0.04	119.30	10.88		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	100.00	116.95	30.57	13.80	25.0	± 9.6 %
		Y	100.00	118.90	31.58		25.0	
		Z	100.00	115.50	29.86		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	100.00	116.02	29.07	10.79	40.0	± 9.6 %
		Y	100.00	116.75	29.64		40.0	
		Z	100.00	115.45	28.70		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	26.45	101.81	27.79	9.03	50.0	± 9.6 %
		Y	95.09	123.36	33.94		50.0	
		Z	35.26	107.00	29.30		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	5.27	78.98	25.36	6.55	100.0	± 9.6 %
		Y	7.85	87.34	26.81		100.0	
		Z	4.82	77.53	24.91		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.16	64.21	14.95	0.61	110.0	± 9.6 %
		Y	1.31	66.27	16.46		110.0	
		Z	1.14	63.97	14.87		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	8.60	97.03	24.51	1.30	110.0	± 9.6 %
		Y	100.00	133.40	34.07		110.0	
		Z	7.00	95.42	24.31		110.0	

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10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	3.49	81.85	22.13	2.04	110.0	± 9.6 %
		Y	10.88	100.68	28.62		110.0	
		Z	3.06	80.49	21.85		110.0	
10062-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.56	86.41	16.26	0.49	100.0	± 9.6 %
		Y	4.69	86.72	16.55		100.0	
		Z	4.56	86.38	16.26		100.0	
10063-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.58	86.53	16.38	0.72	100.0	± 9.6 %
		Y	4.72	86.85	16.68		100.0	
		Z	4.58	86.50	16.38		100.0	
10064-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.86	86.80	16.63	0.86	100.0	± 9.6 %
		Y	5.01	87.14	16.92		100.0	
		Z	4.86	86.78	16.63		100.0	
10065-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.75	86.74	16.76	1.21	100.0	± 9.6 %
		Y	4.90	87.11	17.07		100.0	
		Z	4.75	86.71	16.76		100.0	
10066-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.77	86.80	16.95	1.46	100.0	± 9.6 %
		Y	4.93	87.18	17.28		100.0	
		Z	4.77	86.76	16.95		100.0	
10067-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.09	87.08	17.46	2.04	100.0	± 9.6 %
		Y	5.24	87.39	17.76		100.0	
		Z	5.08	87.03	17.46		100.0	
10068-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.14	87.13	17.70	2.55	100.0	± 9.6 %
		Y	5.32	87.54	18.04		100.0	
		Z	5.13	87.08	17.69		100.0	
10069-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.22	87.17	17.91	2.67	100.0	± 9.6 %
		Y	5.40	87.53	18.24		100.0	
		Z	5.22	87.11	17.90		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.91	86.72	17.29	1.99	100.0	± 9.6 %
		Y	5.04	87.03	17.56		100.0	
		Z	4.90	86.67	17.29		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.90	87.07	17.53	2.30	100.0	± 9.6 %
		Y	5.05	87.46	17.86		100.0	
		Z	4.89	87.01	17.52		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.99	87.32	17.91	2.83	100.0	± 9.6 %
		Y	5.14	87.73	18.26		100.0	
		Z	4.97	87.24	17.90		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.00	87.29	18.10	3.30	100.0	± 9.6 %
		Y	5.15	87.70	18.46		100.0	
		Z	4.97	87.19	18.08		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.05	87.46	18.45	3.82	90.0	± 9.6 %
		Y	5.22	87.96	18.86		90.0	
		Z	5.02	87.34	18.42		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.08	87.31	18.60	4.15	90.0	± 9.6 %
		Y	5.23	87.75	18.99		90.0	
		Z	5.05	87.18	18.57		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.11	87.39	18.71	4.30	90.0	± 9.6 %
		Y	5.26	87.83	19.09		90.0	
		Z	5.08	87.25	18.67		90.0	

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10081-CAB	CDMA2000 (1xRTT, RC3)	X	0.58	62.15	9.26	0.00	150.0	± 9.6 %
		Y	0.79	65.29	12.01		150.0	
		Z	0.59	62.18	9.31		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, Pi4-DQPSK, Fullrate)	X	0.89	60.00	5.00	4.77	80.0	± 9.6 %
		Y	1.06	60.10	5.42		80.0	
		Z	0.82	60.00	4.83		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	113.61	26.61	6.56	60.0	± 9.6 %
		Y	100.00	114.52	27.40		60.0	
		Z	100.00	114.43	26.80		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.61	65.84	14.20	0.00	150.0	± 9.6 %
		Y	1.79	67.45	15.49		150.0	
		Z	1.61	65.80	14.19		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.57	65.77	14.15	0.00	150.0	± 9.6 %
		Y	1.75	67.41	15.45		150.0	
		Z	1.57	65.73	14.14		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	11.08	95.35	33.68	9.56	60.0	± 9.6 %
		Y	27.49	117.79	41.28		60.0	
		Z	9.94	93.45	33.20		60.0	
10100-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	2.79	68.48	15.57	0.00	150.0	± 9.6 %
		Y	3.10	70.20	16.56		150.0	
		Z	2.79	68.46	15.56		150.0	
10101-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.04	68.54	15.23	0.00	150.0	± 9.6 %
		Y	3.21	67.43	15.84		150.0	
		Z	3.04	68.53	15.23		150.0	
10102-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.15	66.58	15.37	0.00	150.0	± 9.6 %
		Y	3.32	67.39	15.93		150.0	
		Z	3.15	66.57	15.36		150.0	
10103-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	6.94	77.02	20.93	3.98	85.0	± 9.6 %
		Y	8.30	79.59	21.98		65.0	
		Z	6.60	76.51	20.62		65.0	
10104-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	6.60	74.37	20.62	3.98	85.0	± 9.6 %
		Y	7.74	76.89	21.76		65.0	
		Z	6.34	73.90	20.51		65.0	
10105-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	6.43	73.76	20.67	3.98	65.0	± 9.6 %
		Y	7.21	75.46	21.47		65.0	
		Z	6.12	73.09	20.46		65.0	
10108-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.42	67.75	15.36	0.00	150.0	± 9.6 %
		Y	2.70	69.42	16.38		150.0	
		Z	2.42	67.73	15.35		150.0	
10109-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.68	66.30	15.02	0.00	150.0	± 9.6 %
		Y	2.87	67.25	15.73		150.0	
		Z	2.69	66.28	15.02		150.0	
10110-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	1.93	66.75	14.78	0.00	150.0	± 9.6 %
		Y	2.19	68.51	15.97		150.0	
		Z	1.93	66.73	14.77		150.0	
10111-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.36	66.83	15.03	0.00	150.0	± 9.6 %
		Y	2.58	67.98	15.96		150.0	
		Z	2.36	66.80	15.03		150.0	

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10112-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.81	66.38	15.13	0.00	150.0	± 9.6 %
		Y	2.99	67.24	15.78		150.0	
		Z	2.82	66.36	15.13		150.0	
10113-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.51	67.07	15.23	0.00	150.0	± 9.6 %
		Y	2.73	68.12	16.09		150.0	
		Z	2.52	67.04	15.23		150.0	
10114-CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	4.99	66.82	16.16	0.00	150.0	± 9.6 %
		Y	5.10	67.13	16.38		150.0	
		Z	5.00	66.82	16.16		150.0	
10115-CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.25	66.91	16.21	0.00	150.0	± 9.6 %
		Y	5.40	67.27	16.48		150.0	
		Z	5.26	66.91	16.22		150.0	
10116-CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.07	66.99	16.17	0.00	150.0	± 9.6 %
		Y	5.20	67.33	16.40		150.0	
		Z	5.08	66.99	16.17		150.0	
10117-CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	4.96	66.89	16.10	0.00	150.0	± 9.6 %
		Y	5.07	67.00	16.33		150.0	
		Z	4.96	66.88	16.10		150.0	
10118-CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.33	67.12	16.33	0.00	150.0	± 9.6 %
		Y	5.48	67.48	16.57		150.0	
		Z	5.34	67.12	16.33		150.0	
10119-CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.06	66.96	16.16	0.00	150.0	± 9.6 %
		Y	5.17	67.27	16.38		150.0	
		Z	5.07	66.96	16.16		150.0	
10140-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.18	66.58	15.28	0.00	150.0	± 9.6 %
		Y	3.35	67.40	15.85		150.0	
		Z	3.18	66.57	15.28		150.0	
10141-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.31	66.74	15.49	0.00	150.0	± 9.6 %
		Y	3.48	67.49	16.02		150.0	
		Z	3.31	66.73	15.48		150.0	
10142-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.67	66.36	14.09	0.00	150.0	± 9.6 %
		Y	1.96	68.43	15.60		150.0	
		Z	1.68	66.34	14.10		150.0	
10143-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.13	66.92	14.26	0.00	150.0	± 9.6 %
		Y	2.43	68.64	15.63		150.0	
		Z	2.14	66.91	14.27		150.0	
10144-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	1.95	64.98	12.78	0.00	150.0	± 9.6 %
		Y	2.21	66.44	14.07		150.0	
		Z	1.96	64.98	12.81		150.0	
10145-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	0.89	61.84	8.95	0.00	150.0	± 9.6 %
		Y	1.18	64.72	11.53		150.0	
		Z	0.90	61.92	9.05		150.0	
10146-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	1.50	63.67	9.83	0.00	150.0	± 9.6 %
		Y	2.10	66.97	12.06		150.0	
		Z	1.48	63.51	9.75		150.0	
10147-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	1.66	64.83	10.55	0.00	150.0	± 9.6 %
		Y	2.53	69.23	13.24		150.0	
		Z	1.63	64.59	10.43		150.0	

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EX3DV4- SN:3801

June 26, 2018

10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.69	66.35	15.07	0.00	150.0	± 9.6 %
		Y	2.68	67.31	15.77		150.0	
		Z	2.70	66.34	15.06		150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	2.82	66.43	15.17	0.00	150.0	± 9.6 %
		Y	3.00	67.30	15.82		150.0	
		Z	2.82	66.41	15.17		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	7.29	79.43	21.93	3.98	65.0	± 9.6 %
		Y	9.32	83.12	23.40		65.0	
		Z	6.94	78.98	21.87		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	6.14	74.36	20.27	3.98	65.0	± 9.6 %
		Y	7.37	77.20	21.60		65.0	
		Z	5.87	73.88	20.17		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	6.57	75.50	21.13	3.98	65.0	± 9.6 %
		Y	7.80	78.18	22.37		65.0	
		Z	6.29	74.99	21.02		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	1.96	67.07	14.99	0.00	150.0	± 9.6 %
		Y	2.23	68.90	16.22		150.0	
		Z	1.97	67.05	14.99		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.36	66.85	15.05	0.00	150.0	± 9.6 %
		Y	2.58	68.00	15.98		150.0	
		Z	2.37	66.82	15.05		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.49	66.02	13.56	0.00	150.0	± 9.6 %
		Y	1.80	68.47	15.37		150.0	
		Z	1.50	66.01	13.58		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	1.74	65.03	12.45	0.00	150.0	± 9.6 %
		Y	2.04	66.94	14.07		150.0	
		Z	1.75	65.04	12.50		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.52	67.13	15.27	0.00	150.0	± 9.6 %
		Y	2.73	68.18	16.14		150.0	
		Z	2.52	67.10	15.27		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	1.82	65.36	12.68	0.00	150.0	± 9.6 %
		Y	2.15	67.39	14.35		150.0	
		Z	1.83	65.38	12.73		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.49	67.29	15.33	0.00	150.0	± 9.6 %
		Y	2.71	68.48	16.17		150.0	
		Z	2.50	67.27	15.32		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.71	66.34	15.05	0.00	150.0	± 9.6 %
		Y	2.90	67.23	15.75		150.0	
		Z	2.71	66.32	15.05		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	2.82	66.54	15.20	0.00	150.0	± 9.6 %
		Y	3.01	67.37	15.86		150.0	
		Z	2.82	66.52	15.19		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.40	69.00	18.89	3.01	150.0	± 9.6 %
		Y	3.70	70.05	19.33		150.0	
		Z	3.38	68.85	18.78		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.04	71.48	19.17	3.01	150.0	± 9.6 %
		Y	4.70	73.38	19.92		150.0	
		Z	4.01	71.26	19.04		150.0	

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EX3DV4- SN:3801

June 26, 2018

10168-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.52	73.94	20.64	3.01	150.0	± 9.6 %
		Y	5.25	75.73	21.26		150.0	
		Z	4.48	73.68	20.49		150.0	
10169-CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.77	67.75	18.34	3.01	150.0	± 9.6 %
		Y	3.18	70.11	19.36		150.0	
		Z	2.75	67.60	18.22		150.0	
10170-CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	3.59	72.80	20.42	3.01	150.0	± 9.6 %
		Y	4.67	76.93	21.92		150.0	
		Z	3.54	72.56	20.26		150.0	
10171-AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	2.99	69.00	17.71	3.01	150.0	± 9.6 %
		Y	3.76	72.40	19.07		150.0	
		Z	2.96	68.80	17.56		150.0	
10172-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	9.91	94.44	29.85	6.02	65.0	± 9.6 %
		Y	26.96	112.91	35.22		65.0	
		Z	8.39	91.68	29.04		65.0	
10173-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	17.47	101.05	30.02	6.02	65.0	± 9.6 %
		Y	73.48	124.50	35.94		65.0	
		Z	15.60	99.60	29.69		65.0	
10174-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	14.33	96.21	27.96	6.02	65.0	± 9.6 %
		Y	38.46	111.23	31.91		65.0	
		Z	12.63	94.55	27.54		65.0	
10175-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.74	67.47	18.09	3.01	150.0	± 9.6 %
		Y	3.14	69.79	19.11		150.0	
		Z	2.72	67.32	17.97		150.0	
10176-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.59	72.83	20.43	3.01	150.0	± 9.6 %
		Y	4.68	76.96	21.93		150.0	
		Z	3.55	72.58	20.27		150.0	
10177-CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.76	67.60	18.18	3.01	150.0	± 9.6 %
		Y	3.17	69.94	19.20		150.0	
		Z	2.74	67.46	18.06		150.0	
10178-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	3.56	72.65	20.32	3.01	150.0	± 9.6 %
		Y	4.63	76.72	21.81		150.0	
		Z	3.52	72.40	20.17		150.0	
10179-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.26	70.78	18.93	3.01	150.0	± 9.6 %
		Y	4.17	74.53	20.35		150.0	
		Z	3.22	70.55	18.78		150.0	
10180-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	2.99	68.95	17.67	3.01	150.0	± 9.6 %
		Y	3.75	72.33	19.02		150.0	
		Z	2.95	68.75	17.52		150.0	
10181-CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.75	67.59	18.17	3.01	150.0	± 9.6 %
		Y	3.17	69.93	19.20		150.0	
		Z	2.73	67.44	18.06		150.0	
10182-CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.56	72.62	20.31	3.01	150.0	± 9.6 %
		Y	4.62	76.70	21.80		150.0	
		Z	3.51	72.38	20.16		150.0	
10183-AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	2.98	68.93	17.66	3.01	150.0	± 9.6 %
		Y	3.74	72.31	19.01		150.0	
		Z	2.95	68.73	17.51		150.0	

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EX3DV4- SN:3801

June 28, 2018

10184-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.76	67.63	18.19	3.01	150.0	± 9.6 %
		Y	3.18	69.97	19.22		150.0	
		Z	2.74	67.48	18.08		150.0	
10185-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.58	72.69	20.35	3.01	150.0	± 9.6 %
		Y	4.64	76.77	21.83		150.0	
		Z	3.53	72.45	20.19		150.0	
10186-AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	3.00	68.99	17.69	3.01	150.0	± 9.6 %
		Y	3.76	72.38	19.04		150.0	
		Z	2.96	68.79	17.54		150.0	
10187-CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.77	67.68	18.26	3.01	150.0	± 9.6 %
		Y	3.19	70.03	19.28		150.0	
		Z	2.75	67.54	18.15		150.0	
10188-CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	3.68	73.28	20.71	3.01	150.0	± 9.6 %
		Y	4.80	77.49	22.22		150.0	
		Z	3.63	73.04	20.56		150.0	
10189-AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.05	69.36	17.95	3.01	150.0	± 9.6 %
		Y	3.85	72.83	19.33		150.0	
		Z	3.02	69.15	17.80		150.0	
10193-CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.37	66.23	15.79	0.00	150.0	± 9.6 %
		Y	4.50	66.54	16.08		150.0	
		Z	4.38	66.22	15.79		150.0	
10194-CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.53	66.52	15.92	0.00	150.0	± 9.6 %
		Y	4.67	66.86	16.20		150.0	
		Z	4.54	66.50	15.92		150.0	
10195-CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.57	66.55	15.95	0.00	150.0	± 9.6 %
		Y	4.71	66.89	16.22		150.0	
		Z	4.58	66.54	15.94		150.0	
10196-CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.37	66.26	15.80	0.00	150.0	± 9.6 %
		Y	4.50	66.60	16.10		150.0	
		Z	4.38	66.25	15.80		150.0	
10197-CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.54	66.53	15.94	0.00	150.0	± 9.6 %
		Y	4.68	66.88	16.22		150.0	
		Z	4.55	66.52	15.93		150.0	
10198-CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.57	66.56	15.96	0.00	150.0	± 9.6 %
		Y	4.71	66.90	16.23		150.0	
		Z	4.58	66.55	15.95		150.0	
10219-CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.32	66.27	15.75	0.00	150.0	± 9.6 %
		Y	4.45	66.61	16.06		150.0	
		Z	4.32	66.26	15.75		150.0	
10220-CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.54	66.50	15.92	0.00	150.0	± 9.6 %
		Y	4.68	66.85	16.21		150.0	
		Z	4.54	66.49	15.92		150.0	
10221-CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.58	66.50	15.95	0.00	150.0	± 9.6 %
		Y	4.72	66.83	16.22		150.0	
		Z	4.59	66.49	15.94		150.0	
10222-CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	4.93	66.68	16.09	0.00	150.0	± 9.6 %
		Y	5.04	67.01	16.33		150.0	
		Z	4.94	66.67	16.09		150.0	

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June 26, 2018

10223-CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.24	66.96	16.26	0.00	150.0	± 9.6 %
		Y	5.34	67.20	16.45		150.0	
		Z	5.25	66.96	16.26		150.0	
10224-CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	4.97	66.79	16.07	0.00	150.0	± 9.6 %
		Y	5.09	67.12	16.31		150.0	
		Z	4.98	66.78	16.07		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.61	65.30	14.50	0.00	150.0	± 9.6 %
		Y	2.77	66.01	15.22		150.0	
		Z	2.62	65.28	14.51		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	19.06	102.60	30.64	6.02	65.0	± 9.6 %
		Y	84.74	127.31	36.73		65.0	
		Z	16.97	101.30	30.30		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	18.47	100.66	29.36	6.02	65.0	± 9.6 %
		Y	61.00	119.15	34.00		65.0	
		Z	16.71	99.46	29.10		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	11.22	97.35	30.90	6.02	65.0	± 9.6 %
		Y	42.26	122.26	37.83		65.0	
		Z	9.70	95.02	30.26		65.0	
10229-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	17.60	101.16	30.06	6.02	65.0	± 9.6 %
		Y	73.82	124.58	35.96		65.0	
		Z	15.72	99.72	29.73		65.0	
10230-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	16.98	99.07	28.81	6.02	65.0	± 9.6 %
		Y	54.30	116.97	33.37		65.0	
		Z	15.36	97.90	28.55		65.0	
10231-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	10.61	96.11	30.42	6.02	65.0	± 9.6 %
		Y	38.34	120.13	37.18		65.0	
		Z	9.21	93.87	29.80		65.0	
10232-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	17.57	101.15	30.06	6.02	65.0	± 9.6 %
		Y	73.88	124.60	35.97		65.0	
		Z	15.69	99.70	29.73		65.0	
10233-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	16.93	99.04	28.80	6.02	65.0	± 9.6 %
		Y	54.26	116.98	33.37		65.0	
		Z	15.34	97.87	28.54		65.0	
10234-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	10.13	95.03	29.94	6.02	65.0	± 9.6 %
		Y	35.09	116.08	36.51		65.0	
		Z	8.83	92.67	29.34		65.0	
10235-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	17.61	101.20	30.07	6.02	65.0	± 9.6 %
		Y	74.39	124.74	36.01		65.0	
		Z	15.72	99.75	29.75		65.0	
10236-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	17.15	99.23	28.85	6.02	65.0	± 9.6 %
		Y	55.30	117.26	33.44		65.0	
		Z	15.54	98.06	28.59		65.0	
10237-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	10.63	96.19	30.45	6.02	65.0	± 9.6 %
		Y	38.84	120.43	37.26		65.0	
		Z	9.22	93.94	29.82		65.0	
10238-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	17.54	101.13	30.05	6.02	65.0	± 9.6 %
		Y	73.93	124.62	35.97		65.0	
		Z	15.66	99.68	29.72		65.0	

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10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	16.87	99.00	28.79	6.02	65.0	± 9.6 %
		Y	54.20	116.98	33.38		65.0	
		Z	15.28	97.83	28.53		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	10.60	96.15	30.43	6.02	65.0	± 9.6 %
		Y	38.66	120.35	37.24		65.0	
		Z	9.20	93.89	29.81		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	8.68	82.76	26.12	6.96	65.0	± 9.6 %
		Y	11.24	87.33	27.87		65.0	
		Z	8.20	81.79	25.60		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	8.24	81.67	25.60	6.96	65.0	± 9.6 %
		Y	9.94	84.69	26.78		65.0	
		Z	7.73	80.54	25.21		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	6.66	78.27	25.11	6.96	65.0	± 9.6 %
		Y	7.69	80.76	26.19		65.0	
		Z	6.24	77.03	24.63		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	6.51	76.73	18.61	3.96	65.0	± 9.6 %
		Y	8.90	80.96	20.59		65.0	
		Z	6.20	76.45	18.60		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	6.23	75.82	18.19	3.96	65.0	± 9.6 %
		Y	8.52	80.01	20.18		65.0	
		Z	5.95	75.55	18.18		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	5.89	78.26	19.20	3.96	65.0	± 9.6 %
		Y	10.33	86.66	22.77		65.0	
		Z	5.69	78.38	19.42		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	5.27	73.98	18.20	3.96	65.0	± 9.6 %
		Y	6.98	78.14	20.37		65.0	
		Z	5.06	73.79	18.26		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	5.20	73.29	17.89	3.96	65.0	± 9.6 %
		Y	6.82	77.27	20.01		65.0	
		Z	5.00	73.09	17.94		65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	7.64	82.87	21.98	3.96	65.0	± 9.6 %
		Y	12.50	90.52	24.99		65.0	
		Z	7.27	82.69	22.09		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	6.39	77.19	21.35	3.96	65.0	± 9.6 %
		Y	7.97	80.62	22.94		65.0	
		Z	6.07	76.89	21.28		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	5.95	74.70	19.94	3.96	65.0	± 9.6 %
		Y	7.31	77.83	21.49		65.0	
		Z	5.69	74.26	19.87		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	7.81	82.79	23.08	3.96	65.0	± 9.6 %
		Y	11.09	88.26	25.20		65.0	
		Z	7.35	82.26	23.04		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	6.02	73.87	20.02	3.96	65.0	± 9.6 %
		Y	7.15	76.53	21.33		65.0	
		Z	5.76	73.39	19.91		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	6.41	74.89	20.77	3.96	65.0	± 9.6 %
		Y	7.57	77.46	22.02		65.0	
		Z	6.13	74.39	20.66		65.0	

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10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	6.95	78.78	21.87	3.98	65.0	± 9.6 %
		Y	8.80	82.37	23.35		65.0	
		Z	6.59	78.27	21.78		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	4.69	71.51	15.31	3.98	65.0	± 9.6 %
		Y	6.81	76.30	17.77		65.0	
		Z	4.50	71.34	15.32		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	4.47	70.51	14.76	3.98	65.0	± 9.6 %
		Y	6.44	75.12	17.21		65.0	
		Z	4.29	70.34	14.77		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	4.06	72.26	15.82	3.98	65.0	± 9.6 %
		Y	7.18	80.25	19.65		65.0	
		Z	3.95	72.43	16.05		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	5.72	75.25	19.37	3.98	65.0	± 9.6 %
		Y	7.37	79.06	21.29		65.0	
		Z	5.47	74.94	19.38		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	5.72	74.91	19.23	3.98	65.0	± 9.6 %
		Y	7.31	78.59	21.12		65.0	
		Z	5.48	74.60	19.24		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	7.27	81.87	22.09	3.98	65.0	± 9.6 %
		Y	10.93	88.24	24.66		65.0	
		Z	6.86	81.50	22.12		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	6.37	77.12	21.30	3.98	65.0	± 9.6 %
		Y	7.95	80.56	22.90		65.0	
		Z	6.05	76.62	21.23		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.94	74.67	19.93	3.98	65.0	± 9.6 %
		Y	7.30	77.80	21.49		65.0	
		Z	5.68	74.24	19.86		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	7.72	82.55	22.97	3.98	65.0	± 9.6 %
		Y	10.95	88.00	25.09		65.0	
		Z	7.26	82.02	22.93		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	6.14	74.37	20.28	3.98	65.0	± 9.6 %
		Y	7.36	77.20	21.81		65.0	
		Z	5.87	73.89	20.17		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	6.57	75.48	21.12	3.98	65.0	± 9.6 %
		Y	7.80	78.16	22.36		65.0	
		Z	6.28	74.97	21.00		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	7.27	79.38	21.91	3.98	65.0	± 9.6 %
		Y	9.30	83.06	23.38		65.0	
		Z	6.92	78.93	21.85		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.75	74.24	20.68	3.98	65.0	± 9.6 %
		Y	7.82	76.54	21.74		65.0	
		Z	6.49	73.77	20.56		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	6.72	73.83	20.55	3.98	65.0	± 9.6 %
		Y	7.73	76.02	21.58		65.0	
		Z	6.46	73.36	20.43		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.94	76.39	20.90	3.98	65.0	± 9.6 %
		Y	8.28	78.95	21.97		65.0	
		Z	6.65	75.97	20.82		65.0	

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10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.40	65.55	14.34	0.00	150.0	±9.6 %
		Y	2.55	66.36	15.12		150.0	
		Z	2.40	65.52	14.34		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.37	65.59	13.82	0.00	150.0	±9.6 %
		Y	1.57	67.69	15.34		150.0	
		Z	1.37	65.56	13.81		150.0	
10277-CAA	PHS (QPSK)	X	2.46	62.30	7.92	9.03	50.0	±9.6 %
		Y	2.99	63.83	9.17		50.0	
		Z	2.33	62.06	7.69		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Roll-off 0.5)	X	4.98	72.46	15.62	9.03	50.0	±9.6 %
		Y	8.77	80.80	19.53		50.0	
		Z	5.06	73.09	15.89		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Roll-off 0.38)	X	5.10	72.72	15.78	9.03	50.0	±9.6 %
		Y	8.97	81.08	19.68		50.0	
		Z	5.19	73.36	16.06		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	0.97	64.08	10.61	0.00	150.0	±9.6 %
		Y	1.37	68.00	13.49		150.0	
		Z	0.98	64.13	10.68		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	0.58	62.04	9.17	0.00	150.0	±9.6 %
		Y	0.77	65.07	11.88		150.0	
		Z	0.58	62.07	9.23		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	0.64	63.79	10.46	0.00	150.0	±9.6 %
		Y	0.99	69.13	14.24		150.0	
		Z	0.64	63.81	10.51		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	0.81	66.57	12.32	0.00	150.0	±9.6 %
		Y	1.56	75.54	17.45		150.0	
		Z	0.81	66.55	12.35		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	11.79	88.13	24.57	9.03	50.0	±9.6 %
		Y	13.93	91.96	26.60		50.0	
		Z	12.03	89.02	24.99		50.0	
10297-AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.43	67.83	15.42	0.00	150.0	±9.6 %
		Y	2.71	69.51	16.44		150.0	
		Z	2.43	67.81	15.41		150.0	
10298-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.17	64.21	11.42	0.00	150.0	±9.6 %
		Y	1.51	67.23	13.79		150.0	
		Z	1.18	64.25	11.49		150.0	
10299-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	2.14	67.38	12.81	0.00	150.0	±9.6 %
		Y	2.87	70.55	14.89		150.0	
		Z	2.09	67.00	12.62		150.0	
10300-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.64	63.53	10.15	0.00	150.0	±9.6 %
		Y	2.07	65.55	11.64		150.0	
		Z	1.63	63.41	10.08		150.0	
10301-AAA	IEEE 802.16e WiMAX (29.18, 5ms, 10MHz, QPSK, PUSC)	X	4.80	65.91	17.41	4.17	50.0	±9.6 %
		Y	5.18	67.15	18.29		50.0	
		Z	4.75	65.66	17.30		50.0	
10302-AAA	IEEE 802.16e WiMAX (29.18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.25	66.32	18.01	4.96	50.0	±9.6 %
		Y	5.53	67.15	18.67		50.0	
		Z	5.21	66.16	17.95		50.0	

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10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	5.02	66.03	17.86	4.96	50.0	± 9.6 %
		Y	5.30	66.93	18.58		50.0	
		Z	4.98	65.85	17.79		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.79	65.79	17.29	4.17	50.0	± 9.6 %
		Y	5.06	66.59	17.94		50.0	
		Z	4.76	65.63	17.23		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.90	69.87	20.22	6.02	35.0	± 9.6 %
		Y	5.31	71.48	21.54		35.0	
		Z	4.75	69.22	19.95		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.99	68.00	19.55	6.02	35.0	± 9.6 %
		Y	5.28	69.01	20.47		35.0	
		Z	4.80	67.60	19.37		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.82	68.28	19.55	6.02	35.0	± 9.6 %
		Y	5.25	69.46	20.56		35.0	
		Z	4.82	67.84	19.36		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.92	68.59	19.73	6.02	35.0	± 9.6 %
		Y	5.26	69.83	20.78		35.0	
		Z	4.82	68.12	19.53		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	5.04	68.19	19.68	6.02	35.0	± 9.6 %
		Y	5.35	69.29	20.64		35.0	
		Z	4.95	67.79	19.50		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.98	68.14	19.55	6.02	35.0	± 9.6 %
		Y	5.25	69.19	20.50		35.0	
		Z	4.87	67.72	19.37		35.0	
10311-AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	2.77	67.21	15.18	0.00	150.0	± 9.6 %
		Y	3.07	68.80	16.10		150.0	
		Z	2.77	67.19	15.17		150.0	
10313-AAA	IDEN 1:3	X	4.50	74.82	16.72	6.99	70.0	± 9.6 %
		Y	8.14	81.70	19.31		70.0	
		Z	4.21	74.79	16.81		70.0	
10314-AAA	IDEN 1:6	X	6.62	83.57	22.82	10.00	30.0	± 9.6 %
		Y	15.63	96.40	26.94		30.0	
		Z	6.51	84.13	23.15		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.00	62.64	14.01	0.17	150.0	± 9.6 %
		Y	1.09	64.02	15.23		150.0	
		Z	0.99	62.54	13.97		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.44	66.34	15.98	0.17	150.0	± 9.6 %
		Y	4.58	68.68	16.29		150.0	
		Z	4.45	66.32	15.98		150.0	
10317-AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.44	66.34	15.98	0.17	150.0	± 9.6 %
		Y	4.58	68.68	16.29		150.0	
		Z	4.45	66.32	15.98		150.0	
10400-AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.51	66.55	15.91	0.00	150.0	± 9.6 %
		Y	4.66	66.92	16.21		150.0	
		Z	4.52	66.54	15.91		150.0	
10401-AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.26	66.85	16.18	0.00	150.0	± 9.6 %
		Y	5.36	67.11	16.38		150.0	
		Z	5.27	66.86	16.18		150.0	

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10402-AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.49	67.07	16.16	0.00	150.0	± 9.6 %
		Y	5.61	67.41	16.38		150.0	
		Z	5.50	67.07	16.16		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	0.97	64.08	10.61	0.00	115.0	± 9.6 %
		Y	1.37	68.00	13.49		115.0	
		Z	0.98	64.13	10.68		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	0.97	64.08	10.61	0.00	115.0	± 9.6 %
		Y	1.37	68.00	13.49		115.0	
		Z	0.98	64.13	10.68		115.0	
10406-AAB	CDMA2000, RC3, SQ32, SCH0, Full Rate	X	30.79	107.36	27.23	0.00	100.0	± 9.6 %
		Y	100.00	120.16	29.82		100.0	
		Z	19.65	100.98	25.49		100.0	
10410-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	124.91	31.71	3.23	80.0	± 9.6 %
		Y	100.00	121.32	30.41		80.0	
		Z	100.00	125.61	31.93		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	0.92	61.75	13.36	0.00	150.0	± 9.6 %
		Y	0.98	62.81	14.44		150.0	
		Z	0.92	61.72	13.35		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.37	66.26	15.86	0.00	150.0	± 9.6 %
		Y	4.50	66.58	16.15		150.0	
		Z	4.38	66.25	15.86		150.0	
10417-AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.37	66.26	15.86	0.00	150.0	± 9.6 %
		Y	4.50	66.58	16.15		150.0	
		Z	4.38	66.25	15.86		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	X	4.36	66.42	15.89	0.00	150.0	± 9.6 %
		Y	4.49	66.74	16.17		150.0	
		Z	4.37	66.40	15.88		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	X	4.38	66.37	15.89	0.00	150.0	± 9.6 %
		Y	4.51	66.69	16.17		150.0	
		Z	4.39	66.35	15.89		150.0	
10422-AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.50	66.38	15.91	0.00	150.0	± 9.6 %
		Y	4.63	66.69	16.18		150.0	
		Z	4.51	66.36	15.91		150.0	
10423-AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.64	66.66	16.02	0.00	150.0	± 9.6 %
		Y	4.79	67.00	16.30		150.0	
		Z	4.65	66.65	16.02		150.0	
10424-AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.57	66.61	15.99	0.00	150.0	± 9.6 %
		Y	4.72	66.95	16.27		150.0	
		Z	4.58	66.60	15.99		150.0	
10425-AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.19	66.94	16.22	0.00	150.0	± 9.6 %
		Y	5.31	67.25	16.45		150.0	
		Z	5.20	66.93	16.22		150.0	
10426-AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.21	67.03	16.26	0.00	150.0	± 9.6 %
		Y	5.32	67.28	16.46		150.0	
		Z	5.22	67.02	16.26		150.0	

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10427-AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.21	66.94	16.22	0.00	150.0	± 9.6 %
		Y	5.33	67.26	16.44		150.0	
		Z	5.22	66.94	16.22		150.0	
10430-AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.02	70.30	17.56	0.00	150.0	± 9.6 %
		Y	4.18	70.49	17.96		150.0	
		Z	4.02	70.25	17.56		150.0	
10431-AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.00	66.69	15.72	0.00	150.0	± 9.6 %
		Y	4.18	67.12	16.13		150.0	
		Z	4.01	66.67	15.72		150.0	
10432-AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.33	66.63	15.89	0.00	150.0	± 9.6 %
		Y	4.48	67.00	16.21		150.0	
		Z	4.33	66.61	15.89		150.0	
10433-AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.58	66.64	16.01	0.00	150.0	± 9.6 %
		Y	4.73	66.99	16.29		150.0	
		Z	4.59	66.63	16.01		150.0	
10434-AAB	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.06	70.92	17.34	0.00	150.0	± 9.6 %
		Y	4.27	71.30	17.90		150.0	
		Z	4.06	70.88	17.35		150.0	
10435-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	124.67	31.60	3.23	80.0	± 9.6 %
		Y	100.00	121.12	30.31		80.0	
		Z	100.00	125.37	31.82		80.0	
10447-AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.24	66.36	14.69	0.00	150.0	± 9.6 %
		Y	3.47	67.09	15.42		150.0	
		Z	3.25	66.35	14.70		150.0	
10448-AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.86	66.46	15.57	0.00	150.0	± 9.6 %
		Y	4.02	66.90	15.99		150.0	
		Z	3.86	66.45	15.58		150.0	
10449-AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.15	66.44	15.77	0.00	150.0	± 9.6 %
		Y	4.29	66.82	16.11		150.0	
		Z	4.16	66.43	15.77		150.0	
10450-AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.36	66.40	15.85	0.00	150.0	± 9.6 %
		Y	4.49	66.75	16.14		150.0	
		Z	4.37	66.38	15.84		150.0	
10451-AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.07	66.27	14.09	0.00	150.0	± 9.6 %
		Y	3.35	67.23	15.01		150.0	
		Z	3.09	66.28	14.12		150.0	
10456-AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99% duty cycle)	X	6.10	67.60	16.46	0.00	150.0	± 9.6 %
		Y	6.17	67.80	16.60		150.0	
		Z	6.11	67.59	16.46		150.0	
10457-AAB	UMTS-FDD (DC-HSDPA)	X	3.68	64.94	15.56	0.00	150.0	± 9.6 %
		Y	3.76	65.22	15.86		150.0	
		Z	3.68	64.92	15.56		150.0	
10458-AAB	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.64	69.83	16.43	0.00	150.0	± 9.6 %
		Y	3.92	70.59	17.30		150.0	
		Z	3.65	69.81	16.46		150.0	
10459-AAB	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.90	68.31	17.78	0.00	150.0	± 9.6 %
		Y	4.99	68.05	17.92		150.0	
		Z	4.90	68.27	17.79		150.0	

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10460-AAA	UMTS-FDD (WCDMA, AMR)	X	0.70	64.51	13.31	0.00	150.0	± 9.6 %
		Y	0.86	67.82	15.75		150.0	
		Z	0.70	64.47	13.28		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	128.99	33.67	3.29	80.0	± 9.6 %
		Y	100.00	126.52	32.84		80.0	
		Z	100.00	129.61	33.85		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	11.24	85.71	18.56	3.23	80.0	± 9.6 %
		Y	100.00	107.01	23.71		80.0	
		Z	7.60	81.91	17.44		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.22	68.12	12.22	3.23	80.0	± 9.6 %
		Y	8.52	79.99	16.22		80.0	
		Z	1.89	66.79	11.65		80.0	
10464-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.35	32.27	3.23	80.0	± 9.6 %
		Y	100.00	124.09	31.55		80.0	
		Z	100.00	126.89	32.42		80.0	
10465-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.43	78.04	16.22	3.23	80.0	± 9.6 %
		Y	61.58	101.53	22.35		80.0	
		Z	4.13	75.48	15.36		80.0	
10466-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.84	66.23	11.40	3.23	80.0	± 9.6 %
		Y	5.22	75.15	14.66		80.0	
		Z	1.61	65.19	10.92		80.0	
10467-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.67	32.42	3.23	80.0	± 9.6 %
		Y	100.00	124.36	31.67		80.0	
		Z	100.00	127.22	32.57		80.0	
10468-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.42	79.84	16.80	3.23	80.0	± 9.6 %
		Y	95.13	106.08	23.39		80.0	
		Z	4.76	76.99	15.88		80.0	
10469-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.85	66.30	11.43	3.23	80.0	± 9.6 %
		Y	5.30	75.30	14.71		80.0	
		Z	1.62	65.24	10.96		80.0	
10470-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.70	32.42	3.23	80.0	± 9.6 %
		Y	100.00	124.39	31.67		80.0	
		Z	100.00	127.26	32.58		80.0	
10471-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.33	79.66	16.73	3.23	80.0	± 9.6 %
		Y	93.01	105.78	23.31		80.0	
		Z	4.69	76.83	15.81		80.0	
10472-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.84	66.22	11.39	3.23	80.0	± 9.6 %
		Y	5.23	75.17	14.65		80.0	
		Z	1.60	65.17	10.90		80.0	
10473-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.67	32.40	3.23	80.0	± 9.6 %
		Y	100.00	124.35	31.66		80.0	
		Z	100.00	127.22	32.56		80.0	
10474-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.23	79.51	16.69	3.23	80.0	± 9.6 %
		Y	89.77	105.43	23.23		80.0	
		Z	4.63	76.70	15.77		80.0	
10475-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.83	66.18	11.37	3.23	80.0	± 9.6 %
		Y	5.17	75.07	14.62		80.0	
		Z	1.59	65.13	10.89		80.0	

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10477-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.49	78.15	16.23	3.23	80.0	± 9.6 %
		Y	65.26	102.05	22.44		80.0	
		Z	4.15	75.54	15.36		80.0	
10478-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.81	66.09	11.33	3.23	80.0	± 9.6 %
		Y	5.09	74.88	14.55		80.0	
		Z	1.58	65.06	10.85		80.0	
10479-AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	18.48	99.99	27.17	3.23	80.0	± 9.6 %
		Y	22.20	101.96	27.87		80.0	
		Z	14.17	98.33	26.21		80.0	
10480-AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	14.09	89.36	21.95	3.23	80.0	± 9.6 %
		Y	20.63	93.88	23.53		80.0	
		Z	11.71	87.23	21.36		80.0	
10481-AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	9.14	82.86	19.53	3.23	80.0	± 9.6 %
		Y	14.27	88.02	21.43		80.0	
		Z	7.91	81.27	19.06		80.0	
10482-AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.52	69.21	14.96	2.23	80.0	± 9.6 %
		Y	5.13	78.71	19.34		80.0	
		Z	2.46	69.28	15.12		80.0	
10483-AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.99	74.88	17.01	2.23	80.0	± 9.6 %
		Y	7.65	80.31	19.44		80.0	
		Z	4.60	74.09	16.78		80.0	
10484-AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.44	73.15	16.36	2.23	80.0	± 9.6 %
		Y	6.72	78.36	18.77		80.0	
		Z	4.14	72.49	16.16		80.0	
10485-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.13	72.16	17.32	2.23	80.0	± 9.6 %
		Y	5.32	79.69	20.70		80.0	
		Z	3.02	71.96	17.37		80.0	
10486-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.95	68.06	15.01	2.23	80.0	± 9.6 %
		Y	4.18	72.74	17.56		80.0	
		Z	2.88	68.00	15.09		80.0	
10487-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.94	67.68	14.83	2.23	80.0	± 9.6 %
		Y	4.10	72.11	17.30		80.0	
		Z	2.88	67.63	14.91		80.0	
10488-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.50	71.98	18.18	2.23	80.0	± 9.6 %
		Y	4.95	77.05	20.46		80.0	
		Z	3.37	71.66	18.14		80.0	
10489-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.43	68.78	16.82	2.23	80.0	± 9.6 %
		Y	4.19	71.55	18.33		80.0	
		Z	3.34	68.53	16.79		80.0	
10490-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.52	68.84	16.78	2.23	80.0	± 9.6 %
		Y	4.25	71.23	18.22		80.0	
		Z	3.43	68.39	16.75		80.0	
10491-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.74	70.64	17.84	2.23	80.0	± 9.6 %
		Y	4.79	74.22	19.51		80.0	
		Z	3.63	70.36	17.79		80.0	
10492-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.79	68.16	16.96	2.23	80.0	± 9.6 %
		Y	4.41	70.27	18.11		80.0	
		Z	3.70	67.92	16.91		80.0	

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10493-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.85	68.05	16.92	2.23	80.0	± 9.6 %
		Y	4.46	70.06	18.03		80.0	
		Z	3.76	67.61	16.88		80.0	
10494-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.02	71.95	18.24	2.23	80.0	± 9.6 %
		Y	5.39	76.25	20.12		80.0	
		Z	3.90	71.68	18.20		80.0	
10495-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.82	68.49	17.15	2.23	80.0	± 9.6 %
		Y	4.47	70.75	18.33		80.0	
		Z	3.72	68.24	17.10		80.0	
10496-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.90	68.26	17.09	2.23	80.0	± 9.6 %
		Y	4.51	70.34	18.20		80.0	
		Z	3.81	68.02	17.05		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.64	63.93	11.45	2.23	80.0	± 9.6 %
		Y	3.48	72.94	16.17		80.0	
		Z	1.62	64.10	11.64		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.36	60.00	8.37	2.23	80.0	± 9.6 %
		Y	2.11	64.18	11.38		80.0	
		Z	1.34	60.00	8.46		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.38	60.00	8.24	2.23	80.0	± 9.6 %
		Y	2.00	63.38	10.85		80.0	
		Z	1.36	60.00	8.32		80.0	
10500-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.25	71.93	17.62	2.23	80.0	± 9.6 %
		Y	4.97	78.02	20.41		80.0	
		Z	3.13	71.66	17.62		80.0	
10501-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.19	68.55	15.79	2.23	80.0	± 9.6 %
		Y	4.19	72.26	17.86		80.0	
		Z	3.11	68.40	15.83		80.0	
10502-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.23	68.38	15.66	2.23	80.0	± 9.6 %
		Y	4.22	71.98	17.69		80.0	
		Z	3.16	68.25	15.70		80.0	
10503-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.45	71.77	18.08	2.23	80.0	± 9.6 %
		Y	4.88	76.80	20.35		80.0	
		Z	3.33	71.45	18.04		80.0	
10504-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.41	68.67	16.76	2.23	80.0	± 9.6 %
		Y	4.17	71.45	18.27		80.0	
		Z	3.32	68.43	16.73		80.0	
10505-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.50	68.54	16.72	2.23	80.0	± 9.6 %
		Y	4.23	71.13	18.16		80.0	
		Z	3.41	68.30	16.69		80.0	
10506-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.99	71.81	18.17	2.23	80.0	± 9.6 %
		Y	5.34	76.07	20.04		80.0	
		Z	3.87	71.54	18.13		80.0	
10507-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.80	68.43	17.11	2.23	80.0	± 9.6 %
		Y	4.45	70.68	18.30		80.0	
		Z	3.71	68.16	17.07		80.0	

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10508-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.89	68.19	17.05	2.23	80.0	± 9.6 %
		Y	4.50	70.26	18.15		80.0	
		Z	3.79	67.95	17.00		80.0	
10509-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.34	70.70	17.76	2.23	80.0	± 9.6 %
		Y	5.36	73.79	19.16		80.0	
		Z	4.23	70.47	17.73		80.0	
10510-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.29	68.19	17.17	2.23	80.0	± 9.6 %
		Y	4.88	70.06	18.13		80.0	
		Z	4.20	67.96	17.12		80.0	
10511-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.35	67.98	17.12	2.23	80.0	± 9.6 %
		Y	4.91	69.72	18.03		80.0	
		Z	4.26	67.75	17.07		80.0	
10512-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.50	72.02	18.14	2.23	80.0	± 9.6 %
		Y	5.67	75.98	19.85		80.0	
		Z	4.38	71.80	18.12		80.0	
10513-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.18	68.39	17.24	2.23	80.0	± 9.6 %
		Y	4.80	70.47	18.29		80.0	
		Z	4.08	68.16	17.19		80.0	
10514-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.21	68.03	17.15	2.23	80.0	± 9.6 %
		Y	4.78	69.92	18.12		80.0	
		Z	4.11	67.80	17.09		80.0	
10515-AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.88	61.83	13.34	0.00	150.0	± 9.6 %
		Y	0.94	62.98	14.49		150.0	
		Z	0.88	61.80	13.32		150.0	
10516-AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.41	64.58	12.89	0.00	150.0	± 9.6 %
		Y	0.57	70.03	16.74		150.0	
		Z	0.41	64.53	12.84		150.0	
10517-AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.70	62.81	13.29	0.00	150.0	± 9.6 %
		Y	0.79	64.81	15.03		150.0	
		Z	0.70	62.78	13.27		150.0	
10518-AAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.36	66.33	15.84	0.00	150.0	± 9.6 %
		Y	4.49	66.65	16.13		150.0	
		Z	4.37	66.32	15.84		150.0	
10519-AAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.53	66.54	15.95	0.00	150.0	± 9.6 %
		Y	4.68	66.89	16.24		150.0	
		Z	4.54	66.53	15.95		150.0	
10520-AAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.38	66.47	15.86	0.00	150.0	± 9.6 %
		Y	4.53	66.84	16.16		150.0	
		Z	4.39	66.46	15.86		150.0	
10521-AAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.31	66.44	15.83	0.00	150.0	± 9.6 %
		Y	4.46	66.84	16.15		150.0	
		Z	4.32	66.44	15.83		150.0	
10522-AAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.37	66.58	15.94	0.00	150.0	± 9.6 %
		Y	4.52	66.93	16.24		150.0	
		Z	4.38	66.57	15.94		150.0	

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10523-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.27	66.46	15.79	0.00	150.0	± 9.6 %
		Y	4.40	66.80	16.08		150.0	
		Z	4.28	66.44	15.79		150.0	
10524-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.32	66.49	15.90	0.00	150.0	± 9.6 %
		Y	4.47	66.85	16.20		150.0	
		Z	4.32	66.48	15.90		150.0	
10525-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.32	65.56	15.51	0.00	150.0	± 9.6 %
		Y	4.45	65.90	15.80		150.0	
		Z	4.33	65.54	15.51		150.0	
10526-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.47	65.88	15.64	0.00	150.0	± 9.6 %
		Y	4.62	66.26	15.94		150.0	
		Z	4.47	65.87	15.64		150.0	
10527-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.39	65.83	15.57	0.00	150.0	± 9.6 %
		Y	4.54	66.22	15.88		150.0	
		Z	4.40	65.82	15.57		150.0	
10528-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.40	65.85	15.60	0.00	150.0	± 9.6 %
		Y	4.56	66.24	15.91		150.0	
		Z	4.41	65.83	15.60		150.0	
10529-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.40	65.85	15.60	0.00	150.0	± 9.6 %
		Y	4.56	66.24	15.91		150.0	
		Z	4.41	65.83	15.60		150.0	
10531-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.38	65.90	15.59	0.00	150.0	± 9.6 %
		Y	4.55	66.34	15.92		150.0	
		Z	4.39	65.89	15.59		150.0	
10532-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.25	65.75	15.52	0.00	150.0	± 9.6 %
		Y	4.41	66.19	15.85		150.0	
		Z	4.26	65.74	15.52		150.0	
10533-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.41	65.91	15.60	0.00	150.0	± 9.6 %
		Y	4.57	66.29	15.90		150.0	
		Z	4.42	65.89	15.60		150.0	
10534-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	4.96	66.00	15.73	0.00	150.0	± 9.6 %
		Y	5.09	66.34	15.97		150.0	
		Z	4.97	65.99	15.73		150.0	
10535-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.03	66.17	15.81	0.00	150.0	± 9.6 %
		Y	5.16	66.52	16.05		150.0	
		Z	5.03	66.17	15.81		150.0	
10536-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	4.90	66.11	15.76	0.00	150.0	± 9.6 %
		Y	5.03	66.47	16.01		150.0	
		Z	4.91	66.11	15.76		150.0	
10537-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	4.95	66.08	15.75	0.00	150.0	± 9.6 %
		Y	5.08	66.43	16.00		150.0	
		Z	4.96	66.07	15.75		150.0	
10538-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.04	66.10	15.80	0.00	150.0	± 9.6 %
		Y	5.17	66.45	16.05		150.0	
		Z	5.04	66.09	15.80		150.0	
10540-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	4.97	66.08	15.81	0.00	150.0	± 9.6 %
		Y	5.11	66.47	16.07		150.0	
		Z	4.97	66.08	15.81		150.0	

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10541-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	4.95	65.97	15.74	0.00	150.0	± 9.6 %
		Y	5.08	66.34	16.00		150.0	
		Z	4.95	65.97	15.74		150.0	
10542-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.10	66.08	15.81	0.00	150.0	± 9.6 %
		Y	5.23	66.41	16.05		150.0	
		Z	5.11	66.07	15.81		150.0	
10543-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.17	66.10	15.85	0.00	150.0	± 9.6 %
		Y	5.31	66.44	16.09		150.0	
		Z	5.18	66.09	15.85		150.0	
10544-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.30	66.13	15.75	0.00	150.0	± 9.6 %
		Y	5.40	66.46	15.97		150.0	
		Z	5.30	66.12	15.75		150.0	
10545-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.48	66.56	15.92	0.00	150.0	± 9.6 %
		Y	5.59	66.86	16.12		150.0	
		Z	5.49	66.55	15.92		150.0	
10546-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.34	66.28	15.79	0.00	150.0	± 9.6 %
		Y	5.46	66.66	16.04		150.0	
		Z	5.35	66.28	15.79		150.0	
10547-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.41	66.35	15.82	0.00	150.0	± 9.6 %
		Y	5.53	66.70	16.05		150.0	
		Z	5.42	66.35	15.82		150.0	
10548-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.62	67.15	16.20	0.00	150.0	± 9.6 %
		Y	5.76	67.56	16.45		150.0	
		Z	5.63	67.16	16.20		150.0	
10550-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.38	66.38	15.86	0.00	150.0	± 9.6 %
		Y	5.49	66.68	16.06		150.0	
		Z	5.39	66.37	15.85		150.0	
10551-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.37	66.33	15.80	0.00	150.0	± 9.6 %
		Y	5.50	66.72	16.04		150.0	
		Z	5.38	66.34	15.80		150.0	
10552-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.30	66.20	15.73	0.00	150.0	± 9.6 %
		Y	5.41	66.53	15.95		150.0	
		Z	5.31	66.19	15.73		150.0	
10553-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.37	66.20	15.77	0.00	150.0	± 9.6 %
		Y	5.50	66.56	16.00		150.0	
		Z	5.38	66.20	15.77		150.0	
10554-AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.71	66.50	15.85	0.00	150.0	± 9.6 %
		Y	5.81	66.82	16.06		150.0	
		Z	5.72	66.50	15.85		150.0	
10555-AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.83	66.78	15.97	0.00	150.0	± 9.6 %
		Y	5.93	67.11	16.18		150.0	
		Z	5.83	66.78	15.98		150.0	
10556-AAB	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	5.85	66.84	16.00	0.00	150.0	± 9.6 %
		Y	5.95	67.16	16.20		150.0	
		Z	5.86	66.84	16.00		150.0	
10557-AAB	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.81	66.72	15.96	0.00	150.0	± 9.6 %
		Y	5.92	67.07	16.18		150.0	
		Z	5.82	66.71	15.96		150.0	

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10558-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.85	66.86	16.05	0.00	150.0	±9.6 %
		Y	5.96	67.22	16.27		150.0	
		Z	5.86	66.86	16.05		150.0	
10560-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.85	66.73	16.02	0.00	150.0	±9.6 %
		Y	5.96	67.08	16.24		150.0	
		Z	5.85	66.73	16.02		150.0	
10561-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.78	66.71	16.04	0.00	150.0	±9.6 %
		Y	5.88	67.05	16.26		150.0	
		Z	5.79	66.71	16.04		150.0	
10562-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	5.86	66.98	16.18	0.00	150.0	±9.6 %
		Y	6.00	67.41	16.44		150.0	
		Z	5.87	66.99	16.18		150.0	
10563-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	5.96	66.91	16.11	0.00	150.0	±9.6 %
		Y	6.20	67.62	16.50		150.0	
		Z	5.97	66.93	16.12		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.70	66.44	16.03	0.46	150.0	±9.6 %
		Y	4.82	66.76	16.31		150.0	
		Z	4.70	66.43	16.03		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	4.91	66.87	16.35	0.46	150.0	±9.6 %
		Y	5.05	67.19	16.62		150.0	
		Z	4.91	66.86	16.35		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.74	66.89	16.15	0.46	150.0	±9.6 %
		Y	4.89	67.04	16.44		150.0	
		Z	4.75	66.88	16.15		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.77	67.08	16.52	0.46	150.0	±9.6 %
		Y	4.91	67.41	16.78		150.0	
		Z	4.78	67.07	16.52		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.65	66.47	15.92	0.46	150.0	±9.6 %
		Y	4.80	66.85	16.23		150.0	
		Z	4.66	66.47	15.92		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.74	67.23	16.61	0.46	150.0	±9.6 %
		Y	4.87	67.51	16.84		150.0	
		Z	4.75	67.21	16.60		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.76	67.06	16.53	0.46	150.0	±9.6 %
		Y	4.90	67.36	16.78		150.0	
		Z	4.77	67.05	16.53		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.10	63.42	14.47	0.46	130.0	±9.6 %
		Y	1.22	65.16	15.85		130.0	
		Z	1.08	63.24	14.41		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.11	63.89	14.77	0.46	130.0	±9.6 %
		Y	1.24	65.79	16.22		130.0	
		Z	1.09	63.70	14.70		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	1.08	73.84	17.41	0.46	130.0	±9.6 %
		Y	4.49	96.37	28.07		130.0	
		Z	1.00	73.13	17.22		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.13	68.08	16.84	0.46	130.0	±9.6 %
		Y	1.43	72.28	19.34		130.0	
		Z	1.10	67.75	16.73		130.0	

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10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.50	66.27	16.10	0.46	130.0	± 9.6 %
		Y	4.63	66.61	16.40		130.0	
		Z	4.50	66.26	16.10		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.52	66.45	16.17	0.46	130.0	± 9.6 %
		Y	4.65	66.77	16.46		130.0	
		Z	4.52	66.43	16.17		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.70	66.71	16.33	0.46	130.0	± 9.6 %
		Y	4.85	67.04	16.62		130.0	
		Z	4.71	66.70	16.33		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.60	66.85	16.43	0.46	130.0	± 9.6 %
		Y	4.75	67.20	16.72		130.0	
		Z	4.61	66.83	16.43		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.36	66.09	15.70	0.46	130.0	± 9.6 %
		Y	4.52	66.52	16.06		130.0	
		Z	4.37	66.07	15.70		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.41	66.16	15.74	0.46	130.0	± 9.6 %
		Y	4.57	66.57	16.09		130.0	
		Z	4.42	66.15	15.74		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.50	66.88	16.37	0.46	130.0	± 9.6 %
		Y	4.65	67.26	16.67		130.0	
		Z	4.51	66.86	16.37		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.30	65.86	15.49	0.46	130.0	± 9.6 %
		Y	4.47	66.30	15.86		130.0	
		Z	4.31	65.85	15.49		130.0	
10583-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.50	66.27	16.10	0.46	130.0	± 9.6 %
		Y	4.63	66.61	16.40		130.0	
		Z	4.50	66.26	16.10		130.0	
10584-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.52	66.45	16.17	0.46	130.0	± 9.6 %
		Y	4.65	66.77	16.46		130.0	
		Z	4.52	66.43	16.17		130.0	
10585-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.70	66.71	16.33	0.46	130.0	± 9.6 %
		Y	4.85	67.04	16.62		130.0	
		Z	4.71	66.70	16.33		130.0	
10586-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.60	66.85	16.43	0.46	130.0	± 9.6 %
		Y	4.75	67.20	16.72		130.0	
		Z	4.61	66.83	16.43		130.0	
10587-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.36	66.09	15.70	0.46	130.0	± 9.6 %
		Y	4.52	66.52	16.06		130.0	
		Z	4.37	66.07	15.70		130.0	
10588-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.41	66.16	15.74	0.46	130.0	± 9.6 %
		Y	4.57	66.57	16.09		130.0	
		Z	4.42	66.15	15.74		130.0	
10589-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.50	66.88	16.37	0.46	130.0	± 9.6 %
		Y	4.65	67.26	16.67		130.0	
		Z	4.51	66.86	16.37		130.0	
10590-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.30	65.86	15.49	0.46	130.0	± 9.6 %
		Y	4.47	66.30	15.86		130.0	
		Z	4.31	65.85	15.49		130.0	

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10591-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.65	66.36	16.22	0.46	130.0	±9.6 %
		Y	4.78	66.66	16.49		130.0	
		Z	4.65	66.34	16.22		130.0	
10592-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.79	66.67	16.35	0.46	130.0	±9.6 %
		Y	4.93	66.99	16.62		130.0	
		Z	4.79	66.66	16.35		130.0	
10593-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.70	66.55	16.21	0.46	130.0	±9.6 %
		Y	4.85	66.90	16.51		130.0	
		Z	4.71	66.54	16.21		130.0	
10594-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.76	66.73	16.38	0.46	130.0	±9.6 %
		Y	4.91	67.07	16.66		130.0	
		Z	4.76	66.72	16.38		130.0	
10595-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.72	66.69	16.28	0.46	130.0	±9.6 %
		Y	4.87	67.03	16.56		130.0	
		Z	4.73	66.67	16.28		130.0	
10596-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.66	66.67	16.27	0.46	130.0	±9.6 %
		Y	4.81	67.03	16.56		130.0	
		Z	4.66	66.65	16.27		130.0	
10597-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.61	66.55	16.13	0.46	130.0	±9.6 %
		Y	4.76	66.93	16.45		130.0	
		Z	4.61	66.53	16.13		130.0	
10598-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.59	66.77	16.39	0.46	130.0	±9.6 %
		Y	4.74	67.15	16.70		130.0	
		Z	4.60	66.76	16.39		130.0	
10599-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.32	66.88	16.47	0.46	130.0	±9.6 %
		Y	5.44	67.19	16.70		130.0	
		Z	5.33	66.88	16.48		130.0	
10600-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.45	67.29	16.65	0.46	130.0	±9.6 %
		Y	5.56	67.56	16.85		130.0	
		Z	5.45	67.29	16.66		130.0	
10601-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.34	67.05	16.54	0.46	130.0	±9.6 %
		Y	5.46	67.33	16.76		130.0	
		Z	5.35	67.04	16.55		130.0	
10602-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.46	67.19	16.54	0.46	130.0	±9.6 %
		Y	5.55	67.37	16.70		130.0	
		Z	5.47	67.18	16.53		130.0	
10603-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.52	67.44	16.80	0.46	130.0	±9.6 %
		Y	5.63	67.66	16.97		130.0	
		Z	5.53	67.43	16.80		130.0	
10604-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.40	67.11	16.62	0.46	130.0	±9.6 %
		Y	5.45	67.17	16.71		130.0	
		Z	5.40	67.08	16.61		130.0	
10605-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.45	67.23	16.67	0.46	130.0	±9.6 %
		Y	5.55	67.47	16.87		130.0	
		Z	5.46	67.22	16.67		130.0	
10606-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.18	66.51	16.16	0.46	130.0	±9.6 %
		Y	5.31	66.84	16.41		130.0	
		Z	5.19	66.49	16.16		130.0	

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10607-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.48	65.64	15.83	0.46	130.0	± 9.6 %
		Y	4.61	65.97	16.11		130.0	
		Z	4.49	65.63	15.83		130.0	
10608-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.64	66.01	15.99	0.46	130.0	± 9.6 %
		Y	4.80	66.37	16.28		130.0	
		Z	4.65	66.00	15.99		130.0	
10609-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.54	65.84	15.81	0.46	130.0	± 9.6 %
		Y	4.69	66.23	16.12		130.0	
		Z	4.54	65.83	15.81		130.0	
10610-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.59	66.00	15.98	0.46	130.0	± 9.6 %
		Y	4.74	66.38	16.28		130.0	
		Z	4.59	65.99	15.98		130.0	
10611-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.50	65.80	15.82	0.46	130.0	± 9.6 %
		Y	4.66	66.19	16.13		130.0	
		Z	4.51	65.79	15.82		130.0	
10612-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.50	65.94	15.85	0.46	130.0	± 9.6 %
		Y	4.67	66.35	16.18		130.0	
		Z	4.51	65.93	15.86		130.0	
10613-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.50	65.79	15.72	0.46	130.0	± 9.6 %
		Y	4.67	66.23	16.06		130.0	
		Z	4.51	65.78	15.72		130.0	
10614-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.45	65.99	15.96	0.46	130.0	± 9.6 %
		Y	4.61	66.40	16.28		130.0	
		Z	4.46	65.98	15.96		130.0	
10615-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.50	65.64	15.59	0.46	130.0	± 9.6 %
		Y	4.66	66.04	15.92		130.0	
		Z	4.50	65.63	15.59		130.0	
10616-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.13	66.09	16.06	0.46	130.0	± 9.6 %
		Y	5.26	66.43	16.30		130.0	
		Z	5.14	66.09	16.06		130.0	
10617-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.20	66.29	16.13	0.46	130.0	± 9.6 %
		Y	5.32	66.60	16.36		130.0	
		Z	5.21	66.29	16.14		130.0	
10618-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.09	66.30	16.15	0.46	130.0	± 9.6 %
		Y	5.21	66.61	16.38		130.0	
		Z	5.10	66.29	16.15		130.0	
10619-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.10	66.08	15.98	0.46	130.0	± 9.6 %
		Y	5.23	66.42	16.22		130.0	
		Z	5.11	66.08	15.98		130.0	
10620-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.18	66.12	16.05	0.46	130.0	± 9.6 %
		Y	5.32	66.47	16.30		130.0	
		Z	5.19	66.12	16.05		130.0	
10621-AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.20	66.27	16.24	0.46	130.0	± 9.6 %
		Y	5.32	66.58	16.46		130.0	
		Z	5.20	66.27	16.25		130.0	
10622-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.21	66.44	16.32	0.46	130.0	± 9.6 %
		Y	5.33	66.73	16.53		130.0	
		Z	5.22	66.44	16.33		130.0	

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10623-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.08	65.93	15.93	0.46	130.0	± 9.6 %
		Y	5.21	66.29	16.19		130.0	
		Z	5.09	65.93	15.94		130.0	
10624-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.27	66.16	16.11	0.46	130.0	± 9.6 %
		Y	5.40	66.47	16.35		130.0	
		Z	5.28	66.15	16.12		130.0	
10625-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.52	66.79	16.49	0.46	130.0	± 9.6 %
		Y	5.74	67.39	16.86		130.0	
		Z	5.54	66.83	16.51		130.0	
10626-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.45	66.17	16.04	0.46	130.0	± 9.6 %
		Y	5.55	66.49	16.26		130.0	
		Z	5.46	66.17	16.04		130.0	
10627-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.69	66.77	16.30	0.46	130.0	± 9.6 %
		Y	5.78	67.03	16.49		130.0	
		Z	5.69	66.76	16.31		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.46	66.20	15.95	0.46	130.0	± 9.6 %
		Y	5.58	66.58	16.20		130.0	
		Z	5.47	66.20	15.96		130.0	
10629-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.54	66.30	15.99	0.46	130.0	± 9.6 %
		Y	5.66	66.63	16.22		130.0	
		Z	5.55	66.30	16.00		130.0	
10630-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.89	67.55	16.62	0.46	130.0	± 9.6 %
		Y	6.06	68.03	16.92		130.0	
		Z	5.91	67.58	16.64		130.0	
10631-AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.82	67.43	16.76	0.46	130.0	± 9.6 %
		Y	5.97	67.86	17.02		130.0	
		Z	5.83	67.44	16.77		130.0	
10632-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.66	66.86	16.49	0.46	130.0	± 9.6 %
		Y	5.75	67.08	16.64		130.0	
		Z	5.67	66.85	16.49		130.0	
10633-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.53	66.40	16.08	0.46	130.0	± 9.6 %
		Y	5.65	66.74	16.31		130.0	
		Z	5.53	66.39	16.09		130.0	
10634-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.51	66.41	16.15	0.46	130.0	± 9.6 %
		Y	5.63	66.76	16.38		130.0	
		Z	5.51	66.41	16.15		130.0	
10635-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.38	65.73	15.53	0.46	130.0	± 9.6 %
		Y	5.52	66.14	15.81		130.0	
		Z	5.39	65.73	15.54		130.0	
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.88	66.55	16.14	0.46	130.0	± 9.6 %
		Y	5.96	66.85	16.34		130.0	
		Z	5.88	66.55	16.15		130.0	
10637-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.02	66.92	16.31	0.46	130.0	± 9.6 %
		Y	6.11	67.22	16.51		130.0	
		Z	6.03	66.93	16.32		130.0	
10638-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.02	66.89	16.27	0.46	130.0	± 9.6 %
		Y	6.12	67.20	16.48		130.0	
		Z	6.02	66.89	16.28		130.0	

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10639-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	5.99	66.82	16.28	0.46	130.0	± 9.6 %
		Y	6.09	67.15	16.50		130.0	
		Z	6.00	66.82	16.29		130.0	
10640-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	5.99	66.81	16.22	0.46	130.0	± 9.6 %
		Y	6.10	67.17	16.46		130.0	
		Z	5.99	66.82	16.23		130.0	
10641-AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.05	66.80	16.24	0.46	130.0	± 9.6 %
		Y	6.14	67.07	16.42		130.0	
		Z	6.06	66.80	16.24		130.0	
10642-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.08	67.00	16.51	0.46	130.0	± 9.6 %
		Y	6.18	67.31	16.70		130.0	
		Z	6.09	67.00	16.51		130.0	
10643-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	5.93	66.71	16.25	0.46	130.0	± 9.6 %
		Y	6.02	67.01	16.46		130.0	
		Z	5.93	66.71	16.25		130.0	
10644-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.03	67.03	16.43	0.46	130.0	± 9.6 %
		Y	6.16	67.49	16.72		130.0	
		Z	6.04	67.04	16.44		130.0	
10645-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.17	67.10	16.43	0.46	130.0	± 9.6 %
		Y	6.47	67.97	16.92		130.0	
		Z	6.18	67.13	16.45		130.0	
10646-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	19.17	110.50	37.83	9.30	60.0	± 9.6 %
		Y	100.00	147.85	47.85		60.0	
		Z	16.64	107.87	37.15		60.0	
10647-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	16.90	108.32	37.31	9.30	60.0	± 9.6 %
		Y	88.18	146.06	47.63		60.0	
		Z	14.61	105.54	36.57		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.50	60.79	7.93	0.00	150.0	± 9.6 %
		Y	0.64	62.89	10.17		150.0	
		Z	0.50	60.83	7.99		150.0	
10652-AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.55	66.81	16.13	2.23	80.0	± 9.6 %
		Y	3.97	68.09	17.10		80.0	
		Z	3.49	66.41	16.10		80.0	
10653-AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.10	66.10	16.44	2.23	80.0	± 9.6 %
		Y	4.44	67.21	17.15		80.0	
		Z	4.04	65.91	16.40		80.0	
10654-AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.10	65.77	16.48	2.23	80.0	± 9.6 %
		Y	4.40	66.84	17.14		80.0	
		Z	4.04	65.58	16.43		80.0	
10655-AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.17	65.74	16.53	2.23	80.0	± 9.6 %
		Y	4.46	66.82	17.18		80.0	
		Z	4.11	65.55	16.47		80.0	
10658-AAA	Pulse Waveform (200Hz, 10%)	X	75.07	110.20	27.10	10.00	50.0	± 9.6 %
		Y	100.00	114.77	28.62		50.0	
		Z	100.00	113.64	27.73		50.0	
10659-AAA	Pulse Waveform (200Hz, 20%)	X	100.00	110.55	25.39	6.99	60.0	± 9.6 %
		Y	100.00	111.82	26.31		60.0	
		Z	100.00	110.88	25.38		60.0	

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EX3DV4- SN:3801

June 26, 2018

10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	107.54	22.75	3.98	80.0	± 9.6 %
		Y	100.00	110.49	24.46		80.0	
		Z	100.00	108.31	22.90		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	X	100.00	104.54	20.30	2.22	100.0	± 9.6 %
		Y	100.00	111.15	23.54		100.0	
		Z	100.00	104.99	20.30		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	X	5.09	77.36	11.00	0.97	120.0	± 9.6 %
		Y	100.00	111.11	21.88		120.0	
		Z	1.05	68.52	8.18		120.0	

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

- End of report -

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