10607-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.38	66.48	16.48	0.46	130.0	± 9.6 %
		Y	4.37	65.68	15.84		130.0	
		Z	4.46	66.03	16.07		130.0	
10608-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.49	66.76	16.61	0.46	130.0	± 9.6 %
		Y	4.50	65.99	15.98		130.0	
		Z	4.60	66.37	16.22		130.0	
10609-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.40	66.61	16.43	0.46	130.0	± 9.6 %
		Y	4.40	65.81	15.80		130.0	
		Z	4.50	66.21	16.04		130.0	
10610-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.45	66.79	16.61	0.46	130.0	± 9.6 %
		Y	4.45	65.98	15.97		130.0	
		Z	4.55	66.37	16.21		130.0	
10611-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.36	66.56	16.44	0.46	130.0	± 9.6 %
		Y	4.36	65.77	15.81		130.0	
		Z	4.46	66.17	16.06		130.0	
10612-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.33	66.68	16.48	0.46	130.0	± 9.6 %
		Y	4.35	65.88	15.84		130.0	
		Z	4.45	66.30	16.10		130.0	
10613-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.33	66.47	16.31	0.46	130.0	± 9.6 %
		Y	4.34	65.70	15.68		130.0	
		Z	4.45	66.12	15.94		130.0	
10614-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.31	66.72	16.57	0.46	130.0	± 9.6 %
		Y	4.31	65.92	15.93		130.0	
		Z	4.41	66.33	16.19		130.0	
10615-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.35	66.43	16.22	0.46	130.0	± 9.6 %
		Y	4.35	65.61	15.57		130.0	
		Z	4.46	66.02	15.84		130.0	
10616-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.02	66.60	16.62	0.46	130.0	± 9.6 %
		Y	5.03	66.05	16.09		130.0	
		Z	5.10	66.36	16.25		130.0	
10617-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.05	66.72	16.67	0.46	130.0	± 9.6 %
		Y	5.07	66.17	16.13		130.0	
		Z	5.14	66.50	16.30		130.0	
10618-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	4.96	66.75	16.69	0.46	130.0	± 9.6 %
		Y	4.97	66.21	16.16		130.0	
		Z	5.05	66.56	16.35		130.0	
10619-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.03	66.77	16.64	0.46	130.0	± 9.6 %
		Y	5.01	66.10	16.04		130.0	
		Z	5.07	66.37	16.19		130.0	
10620-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.04	66.57	16.58	0.46	130.0	± 9.6 %
		Y	5.07	66.08	16.08		130.0	
		Z	5.14	66.38	16.24		130.0	
10621-AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.05	66.67	16.75	0.46	130.0	± 9.6 %
		Y	5.07	66.16	16.24		130.0	
		Z	5.15	66.49	16.41		130.0	
10622-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.05	66.78	16.81	0.46	130.0	± 9.6 %
		Y	5.06	66.25	16.29		130.0	
		Z	5.14	66.58	16.45		130.0	

10623-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	4.96	66.41	16.48	0.46	130.0	± 9.6 %
		Y	4.96	65.81	15.92		130.0	
		Z	5.03	66.14	16.10		130.0	
10624-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.14	66.62	16.65	0.46	130.0	± 9.6 %
		Y	5.16	66.09	16.13		130.0	
		Z	5.23	66.40	16.29		130.0	
10625-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.23	66.81	16.81	0.46	130.0	± 9.6 %
		Y	5.24	66.23	16.27		130.0	
		Z	5.33	66.59	16.45		130.0	
10626-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.37	66.54	16.54	0.46	130.0	± 9.6 %
		Y	5.37	66.08	16.06		130.0	
		Z	5.43	66.40	16.21		130.0	
10627-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.62	67.27	16.89	0.46	130.0	± 9.6 %
		Y	5.62	66.78	16.39		130.0	
		Z	5.65	66.98	16.48		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.36	66.51	16.44	0.46	130.0	± 9.6 %
		Y	5.36	66.07	15.95		130.0	
		Z	5.42	66.39	16.11		130.0	
10629-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.56	67.07	16.72	0.46	130.0	± 9.6 %
		Y	5.49	66.34	16.09		130.0	
		Z	5.52	66.54	16.19		130.0	
10630-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.66	67.55	16.97	0.46	130.0	± 9.6 %
		Y	5.72	67.24	16.55		130.0	
		Z	5.76	67.49	16.67		130.0	
10631-AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.63	67.57	17.15	0.46	130.0	± 9.6 %
		Y	5.67	67.19	16.71		130.0	
		Z	5.73	67.50	16.85		130.0	
10632-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.69	67.71	17.24	0.46	130.0	± 9.6 %
		Y	5.63	66.98	16.63		130.0	
		Z	5.64	67.12	16.68		130.0	
10633-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.36	66.53	16.48	0.46	130.0	± 9.6 %
		Y	5.38	66.12	16.02		130.0	
		Z	5.47	66.52	16.21		130.0	
10634-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.40	66.78	16.65	0.46	130.0	± 9.6 %
		Y	5.41	66.32	16.17		130.0	
		Z	5.48	66.65	16.33		130.0	
10635-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.26	66.02	16.01	0.46	130.0	± 9.6 %
		Y	5.27	65.59	15.53		130.0	
		Z	5.34	65.94	15.71		130.0	
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.83	66.88	16.62	0.46	130.0	± 9.6 %
		Y	5.82	66.47	16.18		130.0	
		Z	5.86	66.75	16.30		130.0	
10637-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	5.94	67.19	16.77	0.46	130.0	± 9.6 %
		Y	5.94	66.79	16.33		130.0	
		Z	5.98	67.06	16.44		130.0	
10638-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.01	67.39	16.85	0.46	130.0	± 9.6 %
		Y	5.96	66.85	16.33		130.0	
		Z	6.00	67.11	16.45		130.0	

10639-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	5.91	67.09	16.74	0.46	130.0	± 9.6 %
		Y	5.91	66.70	16.30		130.0	
		Z	5.96	67.00	16.43		130.0	
10640-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	5.83	66.88	16.58	0.46	130.0	± 9.6 %
		Y	5.86	66.56	16.17		130.0	
		Z	5.93	66.93	16.34		130.0	
10641-AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	5.99	67.15	16.74	0.46	130.0	± 9.6 %
		Y	5.98	66.73	16.28		130.0	
		Z	6.02	66.98	16.39		130.0	
10642-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	5.96	67.18	16.91	0.46	130.0	± 9.6 %
		Y	5.99	66.86	16.51		130.0	
		Z	6.04	67.17	16.64		130.0	
10643-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	5.82	66.90	16.67	0.46	130.0	± 9.6 %
		Y	5.84	66.57	16.25		130.0	
		Z	5.89	66.88	16.40		130.0	
10644-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	5.87	67.05	16.76	0.46	130.0	± 9.6 %
		Y	5.88	66.71	16.35		130.0	
		Z	5.96	67.09	16.52		130.0	
10645-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.02	67.22	16.81	0.46	130.0	± 9.6 %
		Y	6.06	66.92	16.42		130.0	
		Z	6.08	67.13	16.51		130.0	
10646-AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	7.45	98.05	36.37	9.30	60.0	± 9.6 %
		Y	5.70	87.94	31.48		60.0	
		Z	10.68	104.19	37.43		60.0	
10647-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	6.28	94.10	35.07	9.30	60.0	± 9.6 %
		Y	5.09	85.56	30.67		60.0	
		Z	8.75	99.75	36.06		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.35	60.00	5.99	0.00	150.0	± 9.6 %
		Y	0.42	60.00	6.66		150.0	
		Z	0.51	61.64	8.47		150.0	
10652-AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.43	68.40	17.05	2.23	80.0	± 9.6 %
		Y	3.04	65.40	15.46		80.0	
		Z	3.29	66.60	16.23		80.0	
10653-AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.85	66.81	17.07	2.23	80.0	± 9.6 %
		Y	3.63	65.00	15.94		80.0	
		Z	3.82	65.84	16.44		80.0	
10654-AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	3.86	66.20	17.05	2.23	80.0	± 9.6 %
		Y	3.67	64.66	16.00		80.0	
		Z	3.83	65.44	16.46		80.0	
10655-AAD	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	3.94	66.00	17.05	2.23	80.0	± 9.6 %
		Y	3.75	64.59	16.05		80.0	
		Z	3.91	65.37	16.49		80.0	
10658-AAA	Pulse Waveform (200Hz, 10%)	X	100.00	108.27	24.21	10.00	50.0	± 9.6 %
		Y	20.54	89.19	19.09		50.0	
		Z	100.00	106.85	23.58		50.0	
10659-AAA	Pulse Waveform (200Hz, 20%)	X	100.00	109.79	23.79	6.99	60.0	± 9.6 %
		Y	100.00	105.04	21.61		60.0	
		Z	100.00	107.25	22.69		60.0	

10660-AAA	Pulse Waveform (200Hz, 40%)	X	100.00	116.02	25.06	3.98	80.0	± 9.6 %
		Y	100.00	103.57	19.60		80.0	
		Z	100.00	110.44	22.79		80.0	
10661-AAA	Pulse Waveform (200Hz, 60%)	X	100.00	127.15	28.10	2.22	100.0	± 9.6 %
		Y	100.00	96.83	15.82		100.0	
		Z	100.00	114.65	23.34		100.0	
10662-AAA	Pulse Waveform (200Hz, 80%)	X	99.99	357.35	106.97	0.97	120.0	± 9.6 %
		Y	0.15	60.00	2.92		120.0	
		Z	100.00	114.05	21.55		120.0	

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

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S Schweizerischer Kalibrierdienst
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Accreditation No.: SCS 0108

Client PC Test

Certificate No: EX3-7420_Sep18/2

CALIBRATION CERTIFICATE (Replacement of No: EX3-7420_Sep18)

Object: EX3DV4 - SN:7420

Calibration procedure(s): QA CAL-01.v9, QA CAL-14.v8, QA CAL-23.v5, QA CAL-25.v8
Calibration procedure for dosimetric E-field probes

SCV 9/21/2018

Calibration date: September 18, 2018

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-17)	In house check: Oct-18

	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: November 1, 2018

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

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization ϑ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E^2-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- *PAR:* PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. *VR* is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle*: The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

Probe EX3DV4

SN:7420

Manufactured: March 10, 2016
Calibrated: September 18, 2018

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7420

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu V/(V/m)^2$)[A]	0.49	0.54	0.60	± 10.1 %
DCP (mV)[B]	100.0	95.0	92.8	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Unc[E] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	142.4	±3.0 %
		Y	0.0	0.0	1.0		149.4	
		Z	0.0	0.0	1.0		150.8	

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	43.36	323.2	35.50	10.05	0.115	5.063	1.86	0.167	1.006
Y	39.77	309.9	38.23	6.054	0.047	5.084	0.00	0.466	1.008
Z	27.72	219.5	39.73	8.921	0.303	5.100	0.00	0.261	1.008

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

[A] The uncertainties of Norm X,Y,Z do not affect the E^2-field uncertainty inside TSL (see Pages 5 and 6).
[B] Numerical linearization parameter: uncertainty not required.
[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7420

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unc (k=2)
750	41.9	0.89	10.01	10.01	10.01	0.34	1.05	± 12.0 %
835	41.5	0.90	9.68	9.68	9.68	0.27	1.10	± 12.0 %
1750	40.1	1.37	8.43	8.43	8.43	0.37	0.84	± 12.0 %
1900	40.0	1.40	8.16	8.16	8.16	0.32	0.84	± 12.0 %
2300	39.5	1.67	7.67	7.67	7.67	0.33	0.84	± 12.0 %
2450	39.2	1.80	7.19	7.19	7.19	0.30	0.92	± 12.0 %
2600	39.0	1.96	7.11	7.11	7.11	0.35	0.86	± 12.0 %
5250	35.9	4.71	5.19	5.19	5.19	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.70	4.70	4.70	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.80	4.80	4.80	0.40	1.80	± 13.1 %

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

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7420

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unc (k=2)
750	55.5	0.96	9.71	9.71	9.71	0.35	0.95	± 12.0 %
835	55.2	0.97	9.61	9.61	9.61	0.51	0.81	± 12.0 %
1750	53.4	1.49	8.03	8.03	8.03	0.37	0.85	± 12.0 %
1900	53.3	1.52	7.70	7.70	7.70	0.39	0.84	± 12.0 %
2300	52.9	1.81	7.48	7.48	7.48	0.38	0.84	± 12.0 %
2450	52.7	1.95	7.34	7.34	7.34	0.32	0.88	± 12.0 %
2600	52.5	2.16	7.22	7.22	7.22	0.30	0.88	± 12.0 %
5250	48.9	5.36	4.79	4.79	4.79	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.08	4.08	4.08	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.36	4.36	4.36	0.50	1.90	± 13.1 %

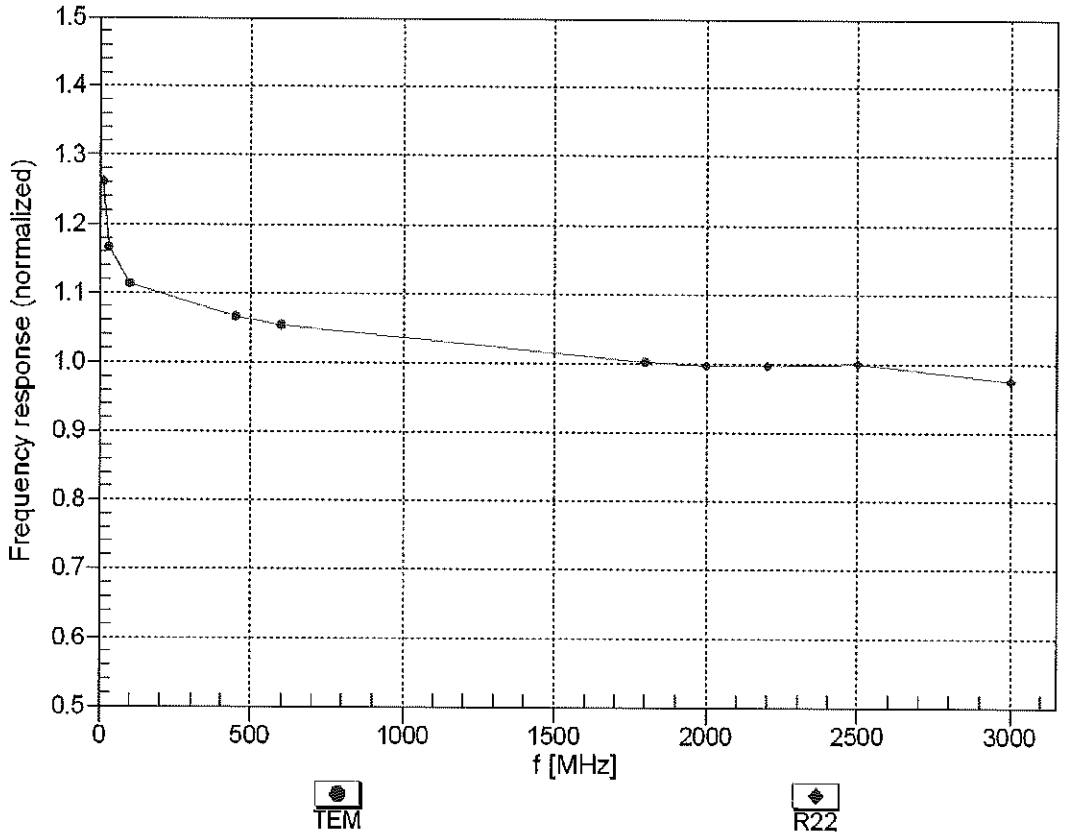
[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz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

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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

Frequency Response of E-Field

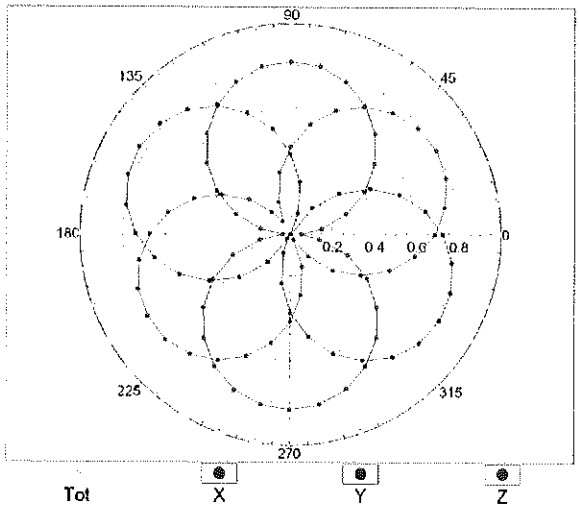
(TEM-Cell:ifi110 EXX, Waveguide: R22)



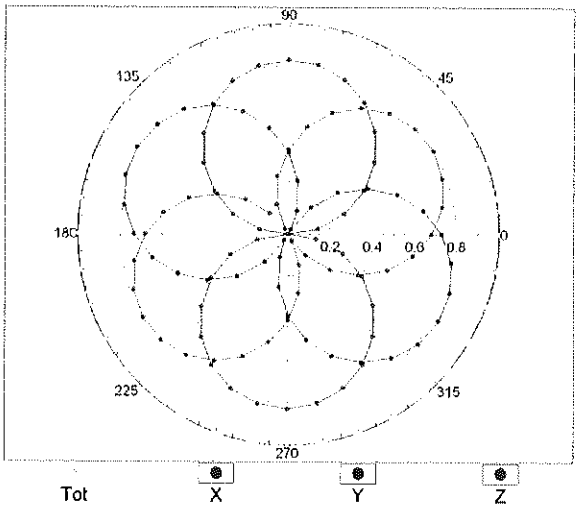
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

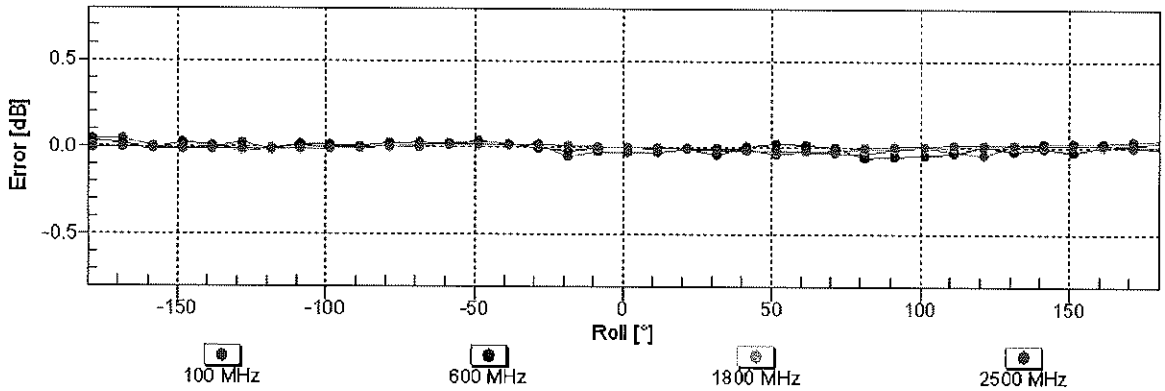
Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM



f=1800 MHz,R22

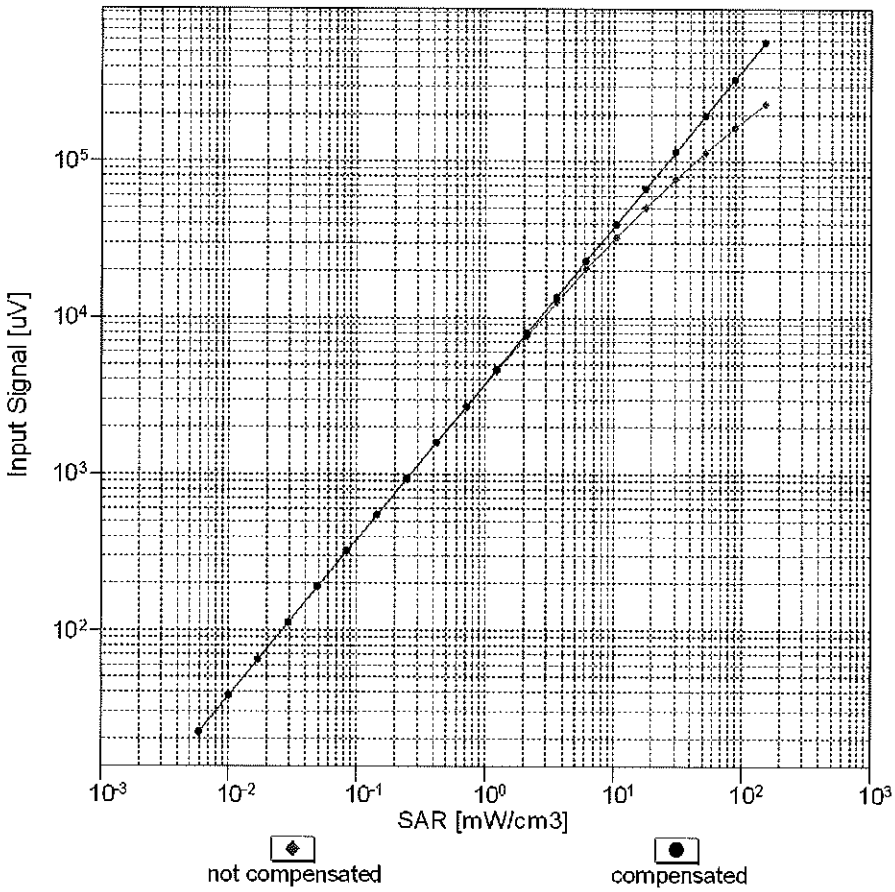


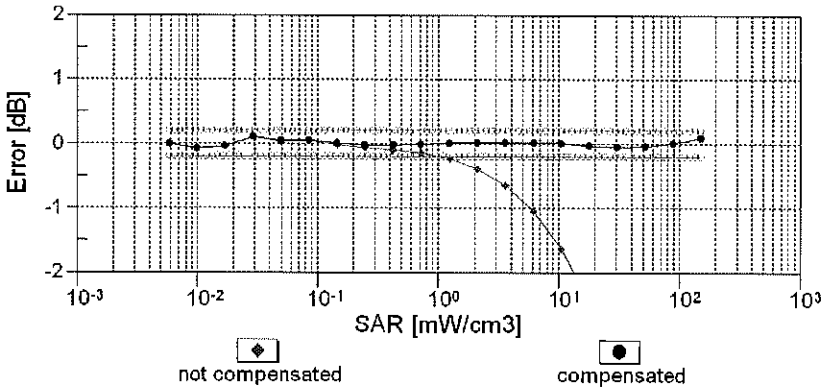


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR_{head})

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

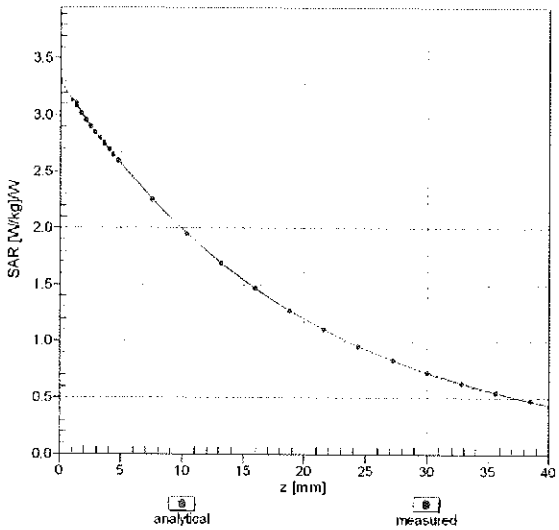




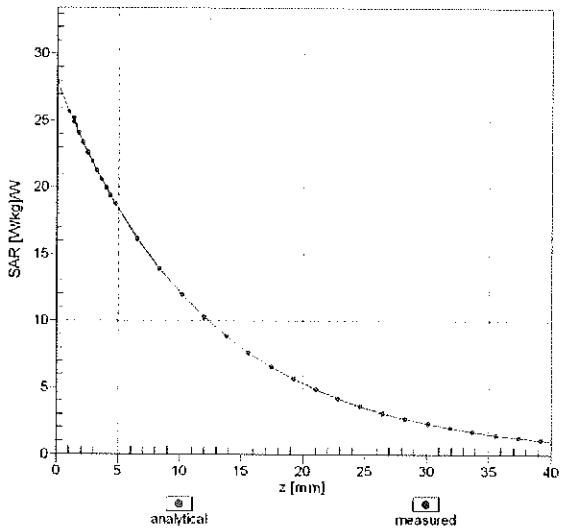
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment

f = 835 MHz,WGLS R9 (H_convF)

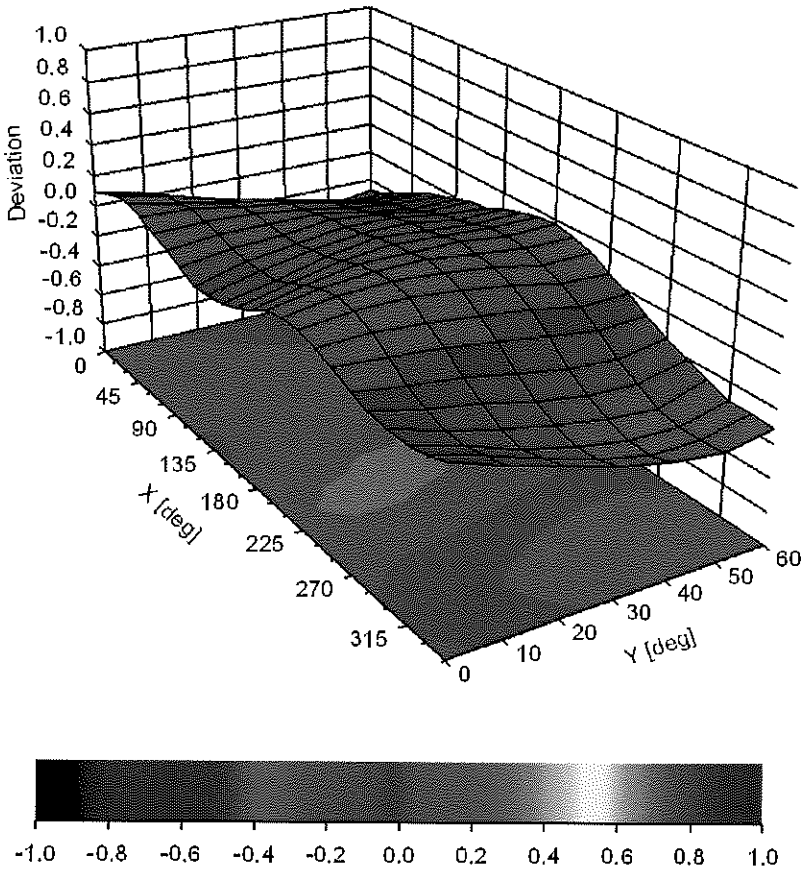


f = 1900 MHz,WGLS R22 (H_convF)



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7420

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	41.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Max Unc[E] (k=2)
0	CW	X	0.00	0.00	1.00	0.00	142.4	± 3.0 %
		Y	0.00	0.00	1.00		149.4	
		Z	0.00	0.00	1.00		150.8	
10010-CAA	SAR Validation (Square, 100ms, 10ms)	X	1.98	65.48	9.62	10.00	20.0	± 9.6 %
		Y	1.47	62.68	7.81		20.0	
		Z	2.00	65.57	9.72		20.0	
10011-CAB	UMTS-FDD (WCDMA)	X	1.00	67.02	14.98	0.00	150.0	± 9.6 %
		Y	0.83	64.45	12.97		150.0	
		Z	1.96	81.22	21.14		150.0	
10012-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.14	63.59	15.07	0.41	150.0	± 9.6 %
		Y	1.04	62.37	14.08		150.0	
		Z	1.16	66.22	17.23		150.0	
10013-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.79	66.65	17.04	1.46	150.0	± 9.6 %
		Y	4.69	66.38	16.93		150.0	
		Z	4.61	67.51	17.78		150.0	
10021-DAC	GSM-FDD (TDMA, GMSK)	X	100.00	111.76	25.68	9.39	50.0	± 9.6 %
		Y	100.00	109.09	24.23		50.0	
		Z	100.00	114.78	27.14		50.0	
10023-DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	111.11	25.44	9.57	50.0	± 9.6 %
		Y	100.00	127.89	27.94		50.0	
		Z	100.00	113.52	26.62		50.0	
10024-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	113.65	25.51	6.56	60.0	± 9.6 %
		Y	100.00	110.68	23.73		60.0	
		Z	100.00	118.22	27.47		60.0	
10025-DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	6.23	86.55	35.63	12.57	50.0	± 9.6 %
		Y	3.75	69.80	26.94		50.0	
		Z	11.42	109.88	46.67		50.0	
10026-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	8.22	92.71	33.98	9.56	60.0	± 9.6 %
		Y	5.56	83.39	30.47		60.0	
		Z	8.02	95.21	36.32		60.0	
10027-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	117.09	26.25	4.80	80.0	± 9.6 %
		Y	100.00	112.75	23.76		80.0	
		Z	100.00	126.04	29.89		80.0	
10028-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	121.88	27.58	3.55	100.0	± 9.6 %
		Y	100.00	113.78	23.43		100.0	
		Z	100.00	141.34	35.26		100.0	
10029-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	4.93	79.80	27.39	7.80	80.0	± 9.6 %
		Y	3.78	74.20	25.10		80.0	
		Z	4.76	81.21	29.20		80.0	
10030-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	112.75	24.67	5.30	70.0	± 9.6 %
		Y	100.00	108.52	22.29		70.0	
		Z	100.00	116.38	26.08		70.0	
10031-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	120.79	25.70	1.88	100.0	± 9.6 %
		Y	99.68	90.03	12.76		100.0	
		Z	100.00	148.21	35.39		100.0	

10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	131.66	28.96	1.17	100.0	± 9.6 %
		Y	0.14	60.00	3.20		100.0	
		Z	0.30	60.00	5.00		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	34.10	114.43	31.26	5.30	70.0	± 9.6 %
		Y	12.31	98.88	26.70		70.0	
		Z	100.00	124.15	31.42		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	3.37	80.11	19.28	1.88	100.0	± 9.6 %
		Y	1.69	70.98	14.93		100.0	
		Z	100.00	112.59	24.56		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	2.03	73.99	16.65	1.17	100.0	± 9.6 %
		Y	1.18	67.07	12.74		100.0	
		Z	4.60	80.36	15.68		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	87.17	129.81	35.04	5.30	70.0	± 9.6 %
		Y	23.49	109.32	29.66		70.0	
		Z	100.00	124.84	31.72		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	3.02	78.74	18.77	1.88	100.0	± 9.6 %
		Y	1.56	70.11	14.55		100.0	
		Z	100.00	112.67	24.56		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	2.04	74.33	16.91	1.17	100.0	± 9.6 %
		Y	1.18	67.29	12.96		100.0	
		Z	7.48	85.69	17.45		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	1.64	70.84	14.77	0.00	150.0	± 9.6 %
		Y	0.99	64.73	10.80		150.0	
		Z	0.55	61.60	7.23		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	100.00	108.63	23.57	7.78	50.0	± 9.6 %
		Y	100.00	104.99	21.61		50.0	
		Z	100.00	110.10	24.21		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	98.66	3.53	0.00	150.0	± 9.6 %
		Y	0.03	121.19	2.53		150.0	
		Z	0.03	138.40	2.04		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	100.00	107.10	25.09	13.80	25.0	± 9.6 %
		Y	61.80	98.59	22.38		25.0	
		Z	100.00	108.47	25.89		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	100.00	108.99	24.81	10.79	40.0	± 9.6 %
		Y	195.67	113.34	24.95		40.0	
		Z	100.00	110.63	25.67		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	100.00	124.93	33.47	9.03	50.0	± 9.6 %
		Y	100.00	123.65	32.61		50.0	
		Z	100.00	121.51	31.54		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	3.87	74.66	24.22	6.55	100.0	± 9.6 %
		Y	3.14	70.61	22.52		100.0	
		Z	3.77	75.92	25.92		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.16	64.53	15.65	0.61	110.0	± 9.6 %
		Y	1.04	63.03	14.55		110.0	
		Z	1.23	68.05	18.30		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	15.10	113.48	30.90	1.30	110.0	± 9.6 %
		Y	2.20	84.00	21.73		110.0	
		Z	100.00	155.34	42.50		110.0	

10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	2.40	79.17	22.27	2.04	110.0	± 9.6 %
		Y	1.58	72.97	19.64		110.0	
		Z	16.21	119.48	36.23		110.0	
10062-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.60	66.65	16.46	0.49	100.0	± 9.6 %
		Y	4.49	66.31	16.28		100.0	
		Z	4.38	67.35	17.07		100.0	
10063-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.62	66.73	16.56	0.72	100.0	± 9.6 %
		Y	4.50	66.40	16.39		100.0	
		Z	4.41	67.52	17.22		100.0	
10064-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.89	66.98	16.79	0.86	100.0	± 9.6 %
		Y	4.77	66.66	16.63		100.0	
		Z	4.62	67.67	17.39		100.0	
10065-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.75	66.86	16.88	1.21	100.0	± 9.6 %
		Y	4.63	66.51	16.72		100.0	
		Z	4.51	67.52	17.51		100.0	
10066-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.77	66.87	17.05	1.46	100.0	± 9.6 %
		Y	4.64	66.53	16.90		100.0	
		Z	4.51	67.50	17.67		100.0	
10067-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.05	67.07	17.51	2.04	100.0	± 9.6 %
		Y	4.94	66.81	17.41		100.0	
		Z	4.79	67.81	18.17		100.0	
10068-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.08	67.04	17.71	2.55	100.0	± 9.6 %
		Y	4.96	66.73	17.60		100.0	
		Z	4.85	67.85	18.44		100.0	
10069-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.16	67.06	17.91	2.67	100.0	± 9.6 %
		Y	5.04	66.79	17.81		100.0	
		Z	4.89	67.81	18.59		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.88	66.71	17.35	1.99	100.0	± 9.6 %
		Y	4.78	66.45	17.24		100.0	
		Z	4.72	67.62	18.12		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.84	66.99	17.55	2.30	100.0	± 9.6 %
		Y	4.73	66.69	17.44		100.0	
		Z	4.67	67.87	18.35		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.89	67.13	17.88	2.83	100.0	± 9.6 %
		Y	4.78	66.83	17.78		100.0	
		Z	4.76	68.20	18.80		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.87	67.00	18.02	3.30	100.0	± 9.6 %
		Y	4.76	66.71	17.92		100.0	
		Z	4.79	68.25	19.02		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	4.89	67.05	18.31	3.82	90.0	± 9.6 %
		Y	4.77	66.72	18.20		90.0	
		Z	4.82	68.28	19.30		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	4.90	66.85	18.44	4.15	90.0	± 9.6 %
		Y	4.80	66.54	18.35		90.0	
		Z	4.86	68.13	19.48		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	4.92	66.91	18.54	4.30	90.0	± 9.6 %
		Y	4.82	66.61	18.45		90.0	
		Z	4.90	68.27	19.62		90.0	

10081-CAB	CDMA2000 (1xRTT, RC3)	X	0.76	65.14	11.71	0.00	150.0	± 9.6 %
		Y	0.53	61.53	8.49		150.0	
		Z	0.32	60.00	5.58		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	3.07	65.96	5.95	4.77	80.0	± 9.6 %
		Y	0.68	60.01	2.69		80.0	
		Z	3.72	65.73	5.41		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	113.67	25.53	6.56	60.0	± 9.6 %
		Y	100.00	110.80	23.80		60.0	
		Z	100.00	118.34	27.54		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.80	67.64	15.50	0.00	150.0	± 9.6 %
		Y	1.60	65.93	14.18		150.0	
		Z	2.40	74.76	18.23		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.76	67.59	15.48	0.00	150.0	± 9.6 %
		Y	1.57	65.86	14.13		150.0	
		Z	2.37	74.85	18.29		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	8.30	92.94	34.06	9.56	60.0	± 9.6 %
		Y	5.60	83.56	30.54		60.0	
		Z	8.11	95.47	36.42		60.0	
10100-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.05	70.07	16.57	0.00	150.0	± 9.6 %
		Y	2.76	68.39	15.63		150.0	
		Z	3.16	72.48	18.28		150.0	
10101-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.18	67.38	15.83	0.00	150.0	± 9.6 %
		Y	3.02	66.47	15.28		150.0	
		Z	3.08	68.35	16.76		150.0	
10102-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.28	67.36	15.93	0.00	150.0	± 9.6 %
		Y	3.13	66.51	15.41		150.0	
		Z	3.18	68.30	16.82		150.0	
10103-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	5.68	75.14	20.49	3.98	65.0	± 9.6 %
		Y	4.89	73.15	19.84		65.0	
		Z	6.24	78.98	22.83		65.0	
10104-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	5.70	73.02	20.33	3.98	65.0	± 9.6 %
		Y	4.99	71.04	19.60		65.0	
		Z	5.49	74.02	21.36		65.0	
10105-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	5.24	71.14	19.77	3.98	65.0	± 9.6 %
		Y	4.74	69.73	19.27		65.0	
		Z	5.36	73.24	21.27		65.0	
10108-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.65	69.31	16.39	0.00	150.0	± 9.6 %
		Y	2.39	67.70	15.42		150.0	
		Z	2.77	72.57	18.40		150.0	
10109-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.83	67.24	15.71	0.00	150.0	± 9.6 %
		Y	2.65	66.25	15.04		150.0	
		Z	2.75	68.90	16.75		150.0	
10110-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.14	68.44	15.95	0.00	150.0	± 9.6 %
		Y	1.89	66.73	14.78		150.0	
		Z	2.33	73.09	18.18		150.0	
10111-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.55	68.11	15.95	0.00	150.0	± 9.6 %
		Y	2.32	66.80	14.97		150.0	
		Z	2.67	71.57	17.20		150.0	

10112-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.96	67.26	15.78	0.00	150.0	± 9.6 %
		Y	2.78	66.34	15.15		150.0	
		Z	2.87	68.92	16.78		150.0	
10113-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.70	68.27	16.09	0.00	150.0	± 9.6 %
		Y	2.47	67.04	15.16		150.0	
		Z	2.78	71.49	17.20		150.0	
10114-CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.07	67.16	16.40	0.00	150.0	± 9.6 %
		Y	4.96	66.77	16.22		150.0	
		Z	4.86	67.49	16.99		150.0	
10115-CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.33	67.22	16.44	0.00	150.0	± 9.6 %
		Y	5.22	66.88	16.29		150.0	
		Z	5.13	67.68	17.06		150.0	
10116-CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.15	67.33	16.41	0.00	150.0	± 9.6 %
		Y	5.05	66.96	16.25		150.0	
		Z	4.95	67.74	17.04		150.0	
10117-CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.03	67.02	16.34	0.00	150.0	± 9.6 %
		Y	4.95	66.69	16.20		150.0	
		Z	4.83	67.33	16.93		150.0	
10118-CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.40	67.41	16.54	0.00	150.0	± 9.6 %
		Y	5.31	67.12	16.42		150.0	
		Z	5.15	67.71	17.09		150.0	
10119-CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.13	67.29	16.40	0.00	150.0	± 9.6 %
		Y	5.05	66.96	16.26		150.0	
		Z	4.95	67.72	17.04		150.0	
10140-CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.31	67.37	15.85	0.00	150.0	± 9.6 %
		Y	3.15	66.52	15.32		150.0	
		Z	3.19	68.39	16.74		150.0	
10141-CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.44	67.49	16.02	0.00	150.0	± 9.6 %
		Y	3.28	66.69	15.53		150.0	
		Z	3.31	68.55	16.92		150.0	
10142-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.91	68.40	15.51	0.00	150.0	± 9.6 %
		Y	1.63	66.25	13.94		150.0	
		Z	2.18	73.58	17.08		150.0	
10143-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.39	68.76	15.51	0.00	150.0	± 9.6 %
		Y	2.06	66.68	13.95		150.0	
		Z	2.31	70.61	14.98		150.0	
10144-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.14	66.35	13.82	0.00	150.0	± 9.6 %
		Y	1.88	64.69	12.43		150.0	
		Z	1.66	65.35	11.84		150.0	
10145-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.07	63.92	10.68	0.00	150.0	± 9.6 %
		Y	0.79	60.96	7.96		150.0	
		Z	0.51	60.00	5.19		150.0	
10146-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	1.64	64.29	9.90	0.00	150.0	± 9.6 %
		Y	1.16	61.35	7.84		150.0	
		Z	0.53	58.05	3.61		150.0	
10147-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	1.84	65.54	10.64	0.00	150.0	± 9.6 %
		Y	1.22	61.82	8.20		150.0	
		Z	0.54	58.15	3.73		150.0	

10149-CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.84	67.30	15.76	0.00	150.0	± 9.6 %
		Y	2.66	66.31	15.09		150.0	
		Z	2.77	68.99	16.81		150.0	
10150-CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	2.96	67.31	15.82	0.00	150.0	± 9.6 %
		Y	2.79	66.39	15.19		150.0	
		Z	2.88	69.00	16.84		150.0	
10151-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	6.17	78.39	21.92	3.98	65.0	± 9.6 %
		Y	5.05	75.73	21.02		65.0	
		Z	7.31	84.36	24.91		65.0	
10152-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.24	73.02	20.03	3.98	65.0	± 9.6 %
		Y	4.52	70.96	19.20		65.0	
		Z	5.14	74.66	21.03		65.0	
10153-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	5.59	73.97	20.81	3.98	65.0	± 9.6 %
		Y	4.84	71.94	20.02		65.0	
		Z	5.56	75.95	21.96		65.0	
10154-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.18	68.82	16.19	0.00	150.0	± 9.6 %
		Y	1.93	67.03	14.98		150.0	
		Z	2.40	73.64	18.47		150.0	
10155-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.55	68.13	15.97	0.00	150.0	± 9.6 %
		Y	2.32	66.82	14.99		150.0	
		Z	2.68	71.67	17.26		150.0	
10156-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.74	68.36	15.19	0.00	150.0	± 9.6 %
		Y	1.43	65.76	13.26		150.0	
		Z	1.84	72.05	15.53		150.0	
10157-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	1.97	66.80	13.75	0.00	150.0	± 9.6 %
		Y	1.65	64.60	11.97		150.0	
		Z	1.34	64.28	10.56		150.0	
10158-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.70	68.34	16.13	0.00	150.0	± 9.6 %
		Y	2.47	67.10	15.21		150.0	
		Z	2.80	71.64	17.29		150.0	
10159-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.07	67.22	14.01	0.00	150.0	± 9.6 %
		Y	1.72	64.86	12.16		150.0	
		Z	1.37	64.28	10.59		150.0	
10160-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.67	68.50	16.19	0.00	150.0	± 9.6 %
		Y	2.49	67.41	15.44		150.0	
		Z	2.77	71.65	17.94		150.0	
10161-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.86	67.26	15.73	0.00	150.0	± 9.6 %
		Y	2.67	66.30	15.05		150.0	
		Z	2.77	69.10	16.65		150.0	
10162-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	2.97	67.44	15.86	0.00	150.0	± 9.6 %
		Y	2.78	66.52	15.20		150.0	
		Z	2.89	69.36	16.80		150.0	
10166-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.58	70.16	19.34	3.01	150.0	± 9.6 %
		Y	3.21	68.35	18.55		150.0	
		Z	2.85	69.02	19.82		150.0	
10167-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.66	74.24	20.21	3.01	150.0	± 9.6 %
		Y	3.73	70.62	18.73		150.0	
		Z	3.22	71.92	20.31		150.0	

10168-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	5.33	77.12	21.77	3.01	150.0	± 9.6 %
		Y	4.14	72.91	20.14		150.0	
		Z	3.62	74.71	22.00		150.0	
10169-CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.04	70.09	19.33	3.01	150.0	± 9.6 %
		Y	2.57	66.72	17.79		150.0	
		Z	2.29	66.69	18.75		150.0	
10170-CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	4.85	78.99	22.71	3.01	150.0	± 9.6 %
		Y	3.18	71.08	19.61		150.0	
		Z	2.66	71.22	20.84		150.0	
10171-AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	3.69	73.30	19.35	3.01	150.0	± 9.6 %
		Y	2.71	67.78	17.08		150.0	
		Z	2.29	68.11	18.30		150.0	
10172-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	6.13	88.39	28.20	6.02	65.0	± 9.6 %
		Y	3.72	78.66	24.84		65.0	
		Z	4.52	87.17	29.75		65.0	
10173-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	38.00	117.73	34.53	6.02	65.0	± 9.6 %
		Y	6.79	88.15	26.52		65.0	
		Z	10.83	103.55	33.16		65.0	
10174-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	29.68	111.18	32.05	6.02	65.0	± 9.6 %
		Y	5.46	83.31	24.22		65.0	
		Z	8.53	97.38	30.44		65.0	
10175-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.00	69.75	19.07	3.01	150.0	± 9.6 %
		Y	2.55	66.48	17.57		150.0	
		Z	2.27	66.49	18.55		150.0	
10176-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	4.86	79.02	22.73	3.01	150.0	± 9.6 %
		Y	3.19	71.10	19.62		150.0	
		Z	2.67	71.24	20.85		150.0	
10177-CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.02	69.91	19.16	3.01	150.0	± 9.6 %
		Y	2.57	66.59	17.64		150.0	
		Z	2.28	66.57	18.60		150.0	
10178-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	4.80	78.76	22.60	3.01	150.0	± 9.6 %
		Y	3.17	70.97	19.54		150.0	
		Z	2.66	71.16	20.79		150.0	
10179-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	4.20	75.94	20.87	3.01	150.0	± 9.6 %
		Y	2.92	69.33	18.22		150.0	
		Z	2.47	69.69	19.50		150.0	
10180-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.68	73.22	19.30	3.01	150.0	± 9.6 %
		Y	2.70	67.74	17.05		150.0	
		Z	2.29	68.11	18.28		150.0	
10181-CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.02	69.89	19.16	3.01	150.0	± 9.6 %
		Y	2.56	66.58	17.64		150.0	
		Z	2.28	66.56	18.60		150.0	
10182-CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	4.79	78.73	22.59	3.01	150.0	± 9.6 %
		Y	3.16	70.95	19.52		150.0	
		Z	2.65	71.14	20.78		150.0	
10183-AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	3.67	73.19	19.29	3.01	150.0	± 9.6 %
		Y	2.70	67.72	17.04		150.0	
		Z	2.29	68.09	18.27		150.0	

10184-CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.03	69.94	19.18	3.01	150.0	± 9.6 %
		Y	2.57	66.61	17.66		150.0	
		Z	2.28	66.59	18.61		150.0	
10185-CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	4.81	78.82	22.63	3.01	150.0	± 9.6 %
		Y	3.18	71.01	19.56		150.0	
		Z	2.67	71.20	20.82		150.0	
10186-AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	3.69	73.27	19.33	3.01	150.0	± 9.6 %
		Y	2.71	67.78	17.07		150.0	
		Z	2.30	68.14	18.30		150.0	
10187-CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.04	70.01	19.26	3.01	150.0	± 9.6 %
		Y	2.58	66.67	17.73		150.0	
		Z	2.29	66.66	18.70		150.0	
10188-CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	5.03	79.71	23.08	3.01	150.0	± 9.6 %
		Y	3.25	71.50	19.88		150.0	
		Z	2.72	71.61	21.11		150.0	
10189-AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.80	73.82	19.65	3.01	150.0	± 9.6 %
		Y	2.76	68.10	17.31		150.0	
		Z	2.34	68.44	18.54		150.0	
10193-CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.46	66.62	16.08	0.00	150.0	± 9.6 %
		Y	4.34	66.23	15.84		150.0	
		Z	4.25	67.38	16.66		150.0	
10194-CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.62	66.91	16.21	0.00	150.0	± 9.6 %
		Y	4.49	66.50	15.98		150.0	
		Z	4.36	67.53	16.79		150.0	
10195-CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.66	66.94	16.23	0.00	150.0	± 9.6 %
		Y	4.53	66.53	16.00		150.0	
		Z	4.38	67.50	16.78		150.0	
10196-CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.46	66.66	16.09	0.00	150.0	± 9.6 %
		Y	4.33	66.25	15.84		150.0	
		Z	4.22	67.32	16.61		150.0	
10197-CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.63	66.93	16.22	0.00	150.0	± 9.6 %
		Y	4.50	66.51	15.99		150.0	
		Z	4.37	67.52	16.79		150.0	
10198-CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.66	66.95	16.24	0.00	150.0	± 9.6 %
		Y	4.53	66.54	16.01		150.0	
		Z	4.37	67.48	16.77		150.0	
10219-CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.41	66.68	16.06	0.00	150.0	± 9.6 %
		Y	4.28	66.26	15.80		150.0	
		Z	4.18	67.42	16.62		150.0	
10220-CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.62	66.89	16.21	0.00	150.0	± 9.6 %
		Y	4.50	66.48	15.98		150.0	
		Z	4.36	67.48	16.77		150.0	
10221-CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.67	66.88	16.23	0.00	150.0	± 9.6 %
		Y	4.54	66.48	16.00		150.0	
		Z	4.39	67.44	16.77		150.0	
10222-CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.01	67.03	16.34	0.00	150.0	± 9.6 %
		Y	4.91	66.67	16.18		150.0	
		Z	4.82	67.37	16.94		150.0	

10223-CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.31	67.27	16.48	0.00	150.0	± 9.6 %
		Y	5.21	66.94	16.35		150.0	
		Z	5.01	67.37	16.93		150.0	
10224-CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.05	67.14	16.32	0.00	150.0	± 9.6 %
		Y	4.95	66.76	16.15		150.0	
		Z	4.86	67.52	16.93		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.74	66.08	15.13	0.00	150.0	± 9.6 %
		Y	2.57	65.25	14.40		150.0	
		Z	2.55	67.23	15.07		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	44.72	120.94	35.47	6.02	65.0	± 9.6 %
		Y	7.20	89.32	27.02		65.0	
		Z	12.04	105.88	33.97		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	40.29	116.33	33.42	6.02	65.0	± 9.6 %
		Y	7.53	88.97	26.21		65.0	
		Z	12.85	105.50	33.01		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	9.31	97.05	31.18	6.02	65.0	± 9.6 %
		Y	4.36	82.33	26.40		65.0	
		Z	5.06	90.04	30.91		65.0	
10229-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	38.44	117.91	34.59	6.02	65.0	± 9.6 %
		Y	6.84	88.25	26.56		65.0	
		Z	10.89	103.62	33.19		65.0	
10230-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	34.51	113.48	32.59	6.02	65.0	± 9.6 %
		Y	7.07	87.78	25.73		65.0	
		Z	11.31	102.92	32.16		65.0	
10231-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	8.81	95.82	30.69	6.02	65.0	± 9.6 %
		Y	4.22	81.61	26.04		65.0	
		Z	4.83	88.89	30.41		65.0	
10232-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	38.37	117.90	34.59	6.02	65.0	± 9.6 %
		Y	6.83	88.23	26.55		65.0	
		Z	10.87	103.59	33.18		65.0	
10233-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	34.36	113.43	32.58	6.02	65.0	± 9.6 %
		Y	7.05	87.74	25.72		65.0	
		Z	11.23	102.80	32.14		65.0	
10234-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	8.43	94.76	30.22	6.02	65.0	± 9.6 %
		Y	4.12	81.05	25.70		65.0	
		Z	4.71	88.25	30.04		65.0	
10235-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	38.57	118.01	34.62	6.02	65.0	± 9.6 %
		Y	6.83	88.26	26.57		65.0	
		Z	10.91	103.70	33.22		65.0	
10236-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	35.32	113.85	32.67	6.02	65.0	± 9.6 %
		Y	7.14	87.93	25.78		65.0	
		Z	11.53	103.24	32.26		65.0	
10237-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	8.83	95.91	30.73	6.02	65.0	± 9.6 %
		Y	4.22	81.64	26.06		65.0	
		Z	4.83	88.94	30.44		65.0	
10238-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	38.28	117.88	34.58	6.02	65.0	± 9.6 %
		Y	6.81	88.20	26.54		65.0	
		Z	10.85	103.59	33.18		65.0	

10239-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	34.18	113.37	32.56	6.02	65.0	± 9.6 %
		Y	7.02	87.69	25.71		65.0	
		Z	11.18	102.74	32.12		65.0	
10240-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	8.80	95.85	30.71	6.02	65.0	± 9.6 %
		Y	4.21	81.60	26.04		65.0	
		Z	4.82	88.95	30.44		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	7.98	82.84	26.32	6.98	65.0	± 9.6 %
		Y	6.25	78.17	24.62		65.0	
		Z	7.24	85.75	28.71		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	7.84	82.54	26.13	6.98	65.0	± 9.6 %
		Y	5.75	76.43	23.79		65.0	
		Z	6.95	84.97	28.32		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	5.30	74.80	23.78	6.98	65.0	± 9.6 %
		Y	4.77	72.98	23.12		65.0	
		Z	5.45	79.70	27.16		65.0	
10244-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	5.35	75.26	17.91	3.98	65.0	± 9.6 %
		Y	3.85	71.20	16.04		65.0	
		Z	2.94	67.75	12.82		65.0	
10245-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	5.14	74.37	17.48	3.98	65.0	± 9.6 %
		Y	3.74	70.47	15.64		65.0	
		Z	2.81	66.92	12.35		65.0	
10246-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	5.18	78.96	19.98	3.98	65.0	± 9.6 %
		Y	3.49	73.78	17.58		65.0	
		Z	3.87	74.84	16.54		65.0	
10247-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	4.48	73.32	18.33	3.98	65.0	± 9.6 %
		Y	3.59	70.48	16.81		65.0	
		Z	3.73	71.37	15.94		65.0	
10248-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	4.44	72.62	17.99	3.98	65.0	± 9.6 %
		Y	3.58	69.88	16.50		65.0	
		Z	3.51	70.04	15.32		65.0	
10249-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	6.46	82.83	22.54	3.98	65.0	± 9.6 %
		Y	4.62	78.31	20.71		65.0	
		Z	10.31	91.36	24.44		65.0	
10250-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	5.28	75.55	21.09	3.98	65.0	± 9.6 %
		Y	4.43	73.18	20.10		65.0	
		Z	5.62	78.69	22.14		65.0	
10251-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	5.05	73.44	19.78	3.98	65.0	± 9.6 %
		Y	4.27	71.23	18.78		65.0	
		Z	4.89	74.82	20.00		65.0	
10252-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	6.38	81.60	23.17	3.98	65.0	± 9.6 %
		Y	4.94	78.15	21.94		65.0	
		Z	9.80	92.32	27.22		65.0	
10253-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	5.15	72.52	19.77	3.98	65.0	± 9.6 %
		Y	4.46	70.58	18.95		65.0	
		Z	5.07	74.27	20.61		65.0	
10254-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	5.46	73.39	20.46	3.98	65.0	± 9.6 %
		Y	4.75	71.45	19.67		65.0	
		Z	5.41	75.29	21.36		65.0	

10255-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	5.81	77.49	21.77	3.98	65.0	± 9.6 %
		Y	4.80	74.95	20.87		65.0	
		Z	6.84	83.29	24.55		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	3.73	69.85	14.38	3.98	65.0	± 9.6 %
		Y	2.70	66.29	12.42		65.0	
		Z	1.84	62.37	8.56		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	3.58	68.93	13.85	3.98	65.0	± 9.6 %
		Y	2.63	65.62	11.96		65.0	
		Z	1.81	61.98	8.21		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	3.55	72.74	16.44	3.98	65.0	± 9.6 %
		Y	2.36	67.80	13.71		65.0	
		Z	1.76	64.10	10.09		65.0	
10259-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	4.82	74.25	19.37	3.98	65.0	± 9.6 %
		Y	3.94	71.68	18.09		65.0	
		Z	4.59	74.76	18.48		65.0	
10260-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	4.83	73.91	19.22	3.98	65.0	± 9.6 %
		Y	3.97	71.40	17.95		65.0	
		Z	4.50	74.04	18.14		65.0	
10261-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	6.01	81.19	22.39	3.98	65.0	± 9.6 %
		Y	4.52	77.38	20.87		65.0	
		Z	9.39	90.51	25.09		65.0	
10262-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	5.27	75.49	21.05	3.98	65.0	± 9.6 %
		Y	4.41	73.12	20.05		65.0	
		Z	5.58	78.56	22.06		65.0	
10263-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.04	73.41	19.77	3.98	65.0	± 9.6 %
		Y	4.26	71.21	18.77		65.0	
		Z	4.88	74.80	20.00		65.0	
10264-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	6.31	81.38	23.06	3.98	65.0	± 9.6 %
		Y	4.89	77.95	21.83		65.0	
		Z	9.59	91.86	27.03		65.0	
10265-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.24	73.02	20.04	3.98	65.0	± 9.6 %
		Y	4.52	70.96	19.21		65.0	
		Z	5.14	74.67	21.03		65.0	
10266-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	5.59	73.95	20.80	3.98	65.0	± 9.6 %
		Y	4.84	71.93	20.01		65.0	
		Z	5.56	75.94	21.95		65.0	
10267-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	6.16	78.34	21.90	3.98	65.0	± 9.6 %
		Y	5.05	75.68	21.00		65.0	
		Z	7.28	84.25	24.86		65.0	
10268-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	5.85	72.87	20.36	3.98	65.0	± 9.6 %
		Y	5.16	71.02	19.67		65.0	
		Z	5.66	74.08	21.40		65.0	
10269-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	5.84	72.44	20.21	3.98	65.0	± 9.6 %
		Y	5.17	70.67	19.54		65.0	
		Z	5.67	73.65	21.21		65.0	
10270-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	5.98	75.28	20.75	3.98	65.0	± 9.6 %
		Y	5.14	73.22	20.06		65.0	
		Z	6.27	78.45	22.79		65.0	

10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.54	66.52	15.09	0.00	150.0	± 9.6 %
		Y	2.38	65.58	14.29		150.0	
		Z	2.51	68.66	15.57		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.56	67.69	15.33	0.00	150.0	± 9.6 %
		Y	1.35	65.62	13.81		150.0	
		Z	2.09	75.23	18.57		150.0	
10277-CAA	PHS (QPSK)	X	1.64	60.38	5.85	9.03	50.0	± 9.6 %
		Y	1.38	59.39	4.80		50.0	
		Z	1.36	59.36	4.61		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	4.49	73.00	15.27	9.03	50.0	± 9.6 %
		Y	3.09	68.07	12.50		50.0	
		Z	2.42	64.14	9.65		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	4.67	73.44	15.53	9.03	50.0	± 9.6 %
		Y	3.21	68.46	12.76		50.0	
		Z	2.46	64.27	9.79		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	1.28	67.55	13.00	0.00	150.0	± 9.6 %
		Y	0.87	63.20	9.74		150.0	
		Z	0.46	60.16	6.10		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	0.75	64.94	11.58	0.00	150.0	± 9.6 %
		Y	0.53	61.44	8.41		150.0	
		Z	0.32	60.00	5.56		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	0.98	69.24	14.07	0.00	150.0	± 9.6 %
		Y	0.58	63.01	9.60		150.0	
		Z	0.33	60.54	6.17		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	1.68	76.56	17.59	0.00	150.0	± 9.6 %
		Y	0.74	65.59	11.37		150.0	
		Z	0.97	69.23	10.62		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	12.77	92.35	26.24	9.03	50.0	± 9.6 %
		Y	22.20	100.28	27.92		50.0	
		Z	100.00	115.37	29.46		50.0	
10297-AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.66	69.41	16.46	0.00	150.0	± 9.6 %
		Y	2.40	67.79	15.48		150.0	
		Z	2.79	72.73	18.49		150.0	
10298-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.42	66.77	13.28	0.00	150.0	± 9.6 %
		Y	1.08	63.49	10.70		150.0	
		Z	0.71	61.60	8.01		150.0	
10299-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	2.44	68.55	13.06	0.00	150.0	± 9.6 %
		Y	1.65	64.37	10.69		150.0	
		Z	0.87	60.44	6.67		150.0	
10300-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.78	64.18	10.26	0.00	150.0	± 9.6 %
		Y	1.37	61.93	8.69		150.0	
		Z	0.81	60.00	5.75		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.62	65.42	17.37	4.17	50.0	± 9.6 %
		Y	4.51	65.22	17.15		50.0	
		Z	4.62	67.58	18.20		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.06	65.89	18.01	4.96	50.0	± 9.6 %
		Y	4.91	65.43	17.65		50.0	
		Z	4.97	67.46	18.56		50.0	

10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.80	65.47	17.81	4.96	50.0	± 9.6 %
		Y	4.65	65.01	17.42		50.0	
		Z	4.76	67.28	18.38		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.63	65.40	17.32	4.17	50.0	± 9.6 %
		Y	4.47	64.93	16.94		50.0	
		Z	4.59	67.18	17.91		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.10	66.51	18.92	6.02	35.0	± 9.6 %
		Y	3.93	66.00	18.30		35.0	
		Z	4.59	70.79	19.72		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.49	65.91	18.73	6.02	35.0	± 9.6 %
		Y	4.34	65.55	18.29		35.0	
		Z	4.69	69.17	19.61		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.36	65.95	18.64	6.02	35.0	± 9.6 %
		Y	4.21	65.52	18.16		35.0	
		Z	4.59	69.24	19.50		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.34	66.13	18.77	6.02	35.0	± 9.6 %
		Y	4.18	65.69	18.28		35.0	
		Z	4.61	69.65	19.75		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.53	66.09	18.86	6.02	35.0	± 9.6 %
		Y	4.37	65.69	18.41		35.0	
		Z	4.70	69.25	19.72		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.43	65.94	18.69	6.02	35.0	± 9.6 %
		Y	4.28	65.57	18.25		35.0	
		Z	4.67	69.37	19.68		35.0	
10311-AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.02	68.71	16.12	0.00	150.0	± 9.6 %
		Y	2.74	67.13	15.24		150.0	
		Z	3.10	71.08	17.81		150.0	
10313-AAA	iDEN 1:3	X	3.73	76.32	17.72	6.99	70.0	± 9.6 %
		Y	2.24	71.02	15.63		70.0	
		Z	11.13	93.46	23.95		70.0	
10314-AAA	iDEN 1:6	X	5.96	86.74	24.63	10.00	30.0	± 9.6 %
		Y	4.04	81.26	22.67		30.0	
		Z	34.68	118.42	34.23		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.06	63.52	14.98	0.17	150.0	± 9.6 %
		Y	0.97	62.27	13.91		150.0	
		Z	1.08	66.42	17.31		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.50	66.64	16.23	0.17	150.0	± 9.6 %
		Y	4.39	66.27	16.01		150.0	
		Z	4.28	67.32	16.81		150.0	
10317-AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.50	66.64	16.23	0.17	150.0	± 9.6 %
		Y	4.39	66.27	16.01		150.0	
		Z	4.28	67.32	16.81		150.0	
10400-AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.60	66.96	16.21	0.00	150.0	± 9.6 %
		Y	4.47	66.53	15.97		150.0	
		Z	4.29	67.46	16.74		150.0	
10401-AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.31	67.10	16.37	0.00	150.0	± 9.6 %
		Y	5.22	66.80	16.24		150.0	
		Z	5.09	67.45	16.93		150.0	

10402-AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.57	67.40	16.38	0.00	150.0	± 9.6 %
		Y	5.47	67.02	16.23		150.0	
		Z	5.38	67.62	16.93		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.28	67.55	13.00	0.00	115.0	± 9.6 %
		Y	0.87	63.20	9.74		115.0	
		Z	0.46	60.16	6.10		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.28	67.55	13.00	0.00	115.0	± 9.6 %
		Y	0.87	63.20	9.74		115.0	
		Z	0.46	60.16	6.10		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	114.35	26.69	0.00	100.0	± 9.6 %
		Y	8.61	89.18	21.46		100.0	
		Z	100.00	124.12	29.49		100.0	
10410-AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	123.47	30.44	3.23	80.0	± 9.6 %
		Y	29.88	112.60	29.12		80.0	
		Z	100.00	143.39	38.45		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.00	62.89	14.47	0.00	150.0	± 9.6 %
		Y	0.92	61.78	13.44		150.0	
		Z	1.00	65.42	16.60		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.46	66.65	16.16	0.00	150.0	± 9.6 %
		Y	4.34	66.25	15.92		150.0	
		Z	4.22	67.28	16.71		150.0	
10417-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.46	66.65	16.16	0.00	150.0	± 9.6 %
		Y	4.34	66.25	15.92		150.0	
		Z	4.22	67.28	16.71		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.45	66.82	16.19	0.00	150.0	± 9.6 %
		Y	4.33	66.42	15.95		150.0	
		Z	4.23	67.56	16.82		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.47	66.77	16.18	0.00	150.0	± 9.6 %
		Y	4.35	66.37	15.95		150.0	
		Z	4.24	67.46	16.78		150.0	
10422-AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.58	66.76	16.20	0.00	150.0	± 9.6 %
		Y	4.46	66.37	15.98		150.0	
		Z	4.33	67.38	16.77		150.0	
10423-AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.73	67.05	16.30	0.00	150.0	± 9.6 %
		Y	4.60	66.64	16.07		150.0	
		Z	4.44	67.62	16.84		150.0	
10424-AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.66	67.00	16.28	0.00	150.0	± 9.6 %
		Y	4.53	66.59	16.05		150.0	
		Z	4.37	67.55	16.82		150.0	
10425-AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.26	67.24	16.44	0.00	150.0	± 9.6 %
		Y	5.17	66.94	16.32		150.0	
		Z	5.05	67.64	17.05		150.0	
10426-AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.28	67.31	16.47	0.00	150.0	± 9.6 %
		Y	5.20	67.06	16.38		150.0	
		Z	5.11	67.90	17.18		150.0	

10427-AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.28	67.25	16.44	0.00	150.0	± 9.6 %
		Y	5.17	66.88	16.28		150.0	
		Z	5.03	67.51	16.98		150.0	
10430-AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.17	70.94	18.03	0.00	150.0	± 9.6 %
		Y	3.94	70.25	17.43		150.0	
		Z	4.39	74.44	18.83		150.0	
10431-AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.11	67.19	16.11	0.00	150.0	± 9.6 %
		Y	3.95	66.68	15.73		150.0	
		Z	3.82	68.15	16.50		150.0	
10432-AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.42	67.06	16.21	0.00	150.0	± 9.6 %
		Y	4.28	66.62	15.93		150.0	
		Z	4.14	67.81	16.75		150.0	
10433-AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.67	67.03	16.30	0.00	150.0	± 9.6 %
		Y	4.54	66.62	16.06		150.0	
		Z	4.39	67.60	16.85		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.27	71.80	17.95	0.00	150.0	± 9.6 %
		Y	3.95	70.75	17.10		150.0	
		Z	4.37	74.54	18.01		150.0	
10435-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.21	30.32	3.23	80.0	± 9.6 %
		Y	26.80	110.87	28.64		80.0	
		Z	100.00	143.00	38.28		80.0	
10447-AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.39	67.13	15.27	0.00	150.0	± 9.6 %
		Y	3.16	66.26	14.52		150.0	
		Z	2.97	67.52	14.59		150.0	
10448-AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	3.97	66.98	15.97	0.00	150.0	± 9.6 %
		Y	3.81	66.46	15.58		150.0	
		Z	3.71	67.98	16.41		150.0	
10449-AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.25	66.89	16.11	0.00	150.0	± 9.6 %
		Y	4.11	66.43	15.82		150.0	
		Z	4.00	67.65	16.67		150.0	
10450-AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.45	66.81	16.15	0.00	150.0	± 9.6 %
		Y	4.33	66.37	15.90		150.0	
		Z	4.22	67.38	16.71		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.25	67.18	14.78	0.00	150.0	± 9.6 %
		Y	2.97	66.04	13.81		150.0	
		Z	2.60	66.32	13.13		150.0	
10456-AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.15	67.84	16.63	0.00	150.0	± 9.6 %
		Y	6.15	67.72	16.63		150.0	
		Z	6.64	69.94	18.14		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.75	65.32	15.86	0.00	150.0	± 9.6 %
		Y	3.67	64.95	15.62		150.0	
		Z	3.64	66.17	16.50		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.89	70.96	17.20	0.00	150.0	± 9.6 %
		Y	3.49	69.40	15.97		150.0	
		Z	2.86	68.25	14.10		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.98	68.55	17.98	0.00	150.0	± 9.6 %
		Y	4.81	68.28	17.63		150.0	
		Z	4.33	68.29	16.68		150.0	

10460-AAA	UMTS-FDD (WCDMA, AMR)	X	0.87	67.71	15.76	0.00	150.0	± 9.6 %
		Y	0.70	64.66	13.36		150.0	
		Z	3.66	95.75	26.74		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	129.54	33.26	3.29	80.0	± 9.6 %
		Y	14.50	104.88	28.18		80.0	
		Z	100.00	153.17	42.85		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.39	65.03	10.31	3.23	80.0	± 9.6 %
		Y	1.03	63.23	10.14		80.0	
		Z	100.00	109.05	22.95		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.81	60.05	7.43	3.23	80.0	± 9.6 %
		Y	0.75	60.00	7.90		80.0	
		Z	0.57	60.30	7.62		80.0	
10464-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.14	31.52	3.23	80.0	± 9.6 %
		Y	12.10	100.62	26.22		80.0	
		Z	100.00	150.19	41.19		80.0	
10465-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.19	63.61	9.62	3.23	80.0	± 9.6 %
		Y	0.93	62.22	9.59		80.0	
		Z	100.00	107.75	22.39		80.0	
10466-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.81	60.00	7.35	3.23	80.0	± 9.6 %
		Y	0.75	60.00	7.84		80.0	
		Z	0.55	60.00	7.41		80.0	
10467-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.52	31.69	3.23	80.0	± 9.6 %
		Y	14.79	103.62	27.06		80.0	
		Z	100.00	150.92	41.50		80.0	
10468-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.24	63.98	9.81	3.23	80.0	± 9.6 %
		Y	0.95	62.51	9.76		80.0	
		Z	100.00	108.41	22.67		80.0	
10469-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.81	60.00	7.35	3.23	80.0	± 9.6 %
		Y	0.75	60.00	7.84		80.0	
		Z	0.55	60.00	7.42		80.0	
10470-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.55	31.69	3.23	80.0	± 9.6 %
		Y	15.04	103.89	27.13		80.0	
		Z	100.00	151.07	41.55		80.0	
10471-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.22	63.88	9.75	3.23	80.0	± 9.6 %
		Y	0.95	62.45	9.71		80.0	
		Z	100.00	108.26	22.60		80.0	
10472-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.81	60.00	7.33	3.23	80.0	± 9.6 %
		Y	0.75	60.00	7.83		80.0	
		Z	0.55	60.00	7.40		80.0	
10473-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.51	31.67	3.23	80.0	± 9.6 %
		Y	14.94	103.77	27.09		80.0	
		Z	100.00	151.03	41.53		80.0	
10474-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.22	63.84	9.73	3.23	80.0	± 9.6 %
		Y	0.94	62.42	9.70		80.0	
		Z	100.00	108.25	22.59		80.0	
10475-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.81	60.00	7.33	3.23	80.0	± 9.6 %
		Y	0.75	60.00	7.83		80.0	
		Z	0.55	60.00	7.40		80.0	

10477-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.17	63.52	9.56	3.23	80.0	± 9.6 %
		Y	0.92	62.18	9.55		80.0	
		Z	100.00	107.73	22.37		80.0	
10478-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.81	60.00	7.32	3.23	80.0	± 9.6 %
		Y	0.75	60.00	7.82		80.0	
		Z	0.55	60.00	7.38		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	9.04	90.33	24.26	3.23	80.0	± 9.6 %
		Y	6.61	86.66	23.14		80.0	
		Z	100.00	137.19	37.34		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	8.84	83.63	19.75	3.23	80.0	± 9.6 %
		Y	4.76	76.73	17.50		80.0	
		Z	100.00	115.92	27.42		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.75	77.50	17.30	3.23	80.0	± 9.6 %
		Y	3.37	71.81	15.25		80.0	
		Z	100.00	111.07	25.15		80.0	
10482-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.60	71.30	16.37	2.23	80.0	± 9.6 %
		Y	1.67	65.92	13.44		80.0	
		Z	2.83	72.35	14.46		80.0	
10483-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.50	71.18	15.46	2.23	80.0	± 9.6 %
		Y	2.31	66.36	13.05		80.0	
		Z	1.29	61.22	8.83		80.0	
10484-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.25	69.98	14.98	2.23	80.0	± 9.6 %
		Y	2.20	65.52	12.66		80.0	
		Z	1.23	60.55	8.44		80.0	
10485-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.97	73.01	18.21	2.23	80.0	± 9.6 %
		Y	2.20	69.19	16.27		80.0	
		Z	22.67	102.89	26.50		80.0	
10486-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.86	68.82	15.74	2.23	80.0	± 9.6 %
		Y	2.22	65.76	13.92		80.0	
		Z	2.70	69.32	14.28		80.0	
10487-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.85	68.38	15.52	2.23	80.0	± 9.6 %
		Y	2.23	65.43	13.74		80.0	
		Z	2.47	67.87	13.61		80.0	
10488-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.20	71.90	18.58	2.23	80.0	± 9.6 %
		Y	2.62	69.33	17.40		80.0	
		Z	5.59	84.24	23.63		80.0	
10489-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.18	68.52	17.04	2.23	80.0	± 9.6 %
		Y	2.77	66.86	16.15		80.0	
		Z	3.92	74.27	19.29		80.0	
10490-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.27	68.37	16.97	2.23	80.0	± 9.6 %
		Y	2.86	66.79	16.11		80.0	
		Z	3.87	73.48	18.93		80.0	
10491-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.45	70.42	18.08	2.23	80.0	± 9.6 %
		Y	2.96	68.43	17.20		80.0	
		Z	4.22	76.57	21.22		80.0	
10492-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.52	67.77	17.04	2.23	80.0	± 9.6 %
		Y	3.17	66.45	16.39		80.0	
		Z	3.76	71.09	18.73		80.0	

10493-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.59	67.65	16.99	2.23	80.0	± 9.6 %
		Y	3.24	66.37	16.35		80.0	
		Z	3.77	70.74	18.54		80.0	
10494-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.73	71.91	18.57	2.23	80.0	± 9.6 %
		Y	3.14	69.59	17.59		80.0	
		Z	4.78	78.78	22.06		80.0	
10495-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.54	68.08	17.23	2.23	80.0	± 9.6 %
		Y	3.18	66.69	16.58		80.0	
		Z	3.77	71.24	19.01		80.0	
10496-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.62	67.84	17.15	2.23	80.0	± 9.6 %
		Y	3.27	66.53	16.54		80.0	
		Z	3.80	70.76	18.81		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.73	65.94	12.85	2.23	80.0	± 9.6 %
		Y	1.06	60.88	9.56		80.0	
		Z	0.85	60.00	7.05		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.28	60.26	8.80	2.23	80.0	± 9.6 %
		Y	1.16	60.00	7.85		80.0	
		Z	1.10	60.00	5.59		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.27	60.00	8.50	2.23	80.0	± 9.6 %
		Y	1.18	60.00	7.69		80.0	
		Z	1.14	60.00	5.40		80.0	
10500-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.02	72.29	18.27	2.23	80.0	± 9.6 %
		Y	2.36	69.20	16.71		80.0	
		Z	10.28	93.15	24.95		80.0	
10501-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.02	68.86	16.31	2.23	80.0	± 9.6 %
		Y	2.49	66.51	14.92		80.0	
		Z	3.75	73.54	17.07		80.0	
10502-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.08	68.71	16.17	2.23	80.0	± 9.6 %
		Y	2.54	66.38	14.78		80.0	
		Z	3.58	72.48	16.52		80.0	
10503-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.16	71.71	18.48	2.23	80.0	± 9.6 %
		Y	2.59	69.16	17.30		80.0	
		Z	5.44	83.79	23.45		80.0	
10504-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.16	68.43	16.98	2.23	80.0	± 9.6 %
		Y	2.76	66.77	16.09		80.0	
		Z	3.88	74.08	19.19		80.0	
10505-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.25	68.28	16.92	2.23	80.0	± 9.6 %
		Y	2.85	66.70	16.06		80.0	
		Z	3.84	73.33	18.85		80.0	
10506-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.70	71.78	18.50	2.23	80.0	± 9.6 %
		Y	3.12	69.46	17.52		80.0	
		Z	4.72	78.55	21.96		80.0	
10507-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.53	68.03	17.19	2.23	80.0	± 9.6 %
		Y	3.17	66.63	16.54		80.0	
		Z	3.75	71.16	18.97		80.0	

10508-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.61	67.78	17.11	2.23	80.0	± 9.6 %
		Y	3.26	66.47	16.49		80.0	
		Z	3.78	70.66	18.75		80.0	
10509-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.07	70.61	17.99	2.23	80.0	± 9.6 %
		Y	3.56	68.75	17.23		80.0	
		Z	4.50	74.42	20.36		80.0	
10510-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.01	67.79	17.19	2.23	80.0	± 9.6 %
		Y	3.67	66.54	16.66		80.0	
		Z	4.03	69.58	18.54		80.0	
10511-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.07	67.56	17.12	2.23	80.0	± 9.6 %
		Y	3.74	66.39	16.62		80.0	
		Z	4.08	69.30	18.42		80.0	
10512-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.24	72.14	18.49	2.23	80.0	± 9.6 %
		Y	3.60	69.85	17.56		80.0	
		Z	4.88	76.57	21.10		80.0	
10513-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.89	68.00	17.28	2.23	80.0	± 9.6 %
		Y	3.54	66.65	16.71		80.0	
		Z	3.93	69.75	18.67		80.0	
10514-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.93	67.61	17.16	2.23	80.0	± 9.6 %
		Y	3.60	66.36	16.63		80.0	
		Z	3.95	69.22	18.46		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.96	63.06	14.52	0.00	150.0	± 9.6 %
		Y	0.88	61.87	13.42		150.0	
		Z	0.97	65.95	16.87		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.57	69.38	16.67	0.00	150.0	± 9.6 %
		Y	0.42	64.94	13.06		150.0	
		Z	100.00	169.97	46.35		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.80	64.78	15.05	0.00	150.0	± 9.6 %
		Y	0.70	62.90	13.39		150.0	
		Z	0.98	72.03	19.62		150.0	
10518-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.45	66.73	16.14	0.00	150.0	± 9.6 %
		Y	4.33	66.33	15.90		150.0	
		Z	4.22	67.44	16.73		150.0	
10519-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.62	66.93	16.24	0.00	150.0	± 9.6 %
		Y	4.49	66.53	16.01		150.0	
		Z	4.34	67.57	16.79		150.0	
10520-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.47	66.88	16.16	0.00	150.0	± 9.6 %
		Y	4.34	66.44	15.91		150.0	
		Z	4.21	67.50	16.72		150.0	
10521-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.41	66.87	16.15	0.00	150.0	± 9.6 %
		Y	4.27	66.41	15.88		150.0	
		Z	4.14	67.42	16.68		150.0	
10522-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.47	66.99	16.25	0.00	150.0	± 9.6 %
		Y	4.33	66.55	15.99		150.0	
		Z	4.16	67.47	16.72		150.0	

10523-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.36	66.89	16.11	0.00	150.0	± 9.6 %
		Y	4.24	66.47	15.86		150.0	
		Z	4.15	67.74	16.81		150.0	
10524-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.41	66.91	16.21	0.00	150.0	± 9.6 %
		Y	4.27	66.48	15.96		150.0	
		Z	4.13	67.58	16.81		150.0	
10525-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.42	65.98	15.82	0.00	150.0	± 9.6 %
		Y	4.29	65.56	15.57		150.0	
		Z	4.21	66.73	16.46		150.0	
10526-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.56	66.31	15.95	0.00	150.0	± 9.6 %
		Y	4.42	65.86	15.70		150.0	
		Z	4.30	66.94	16.55		150.0	
10527-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.49	66.27	15.89	0.00	150.0	± 9.6 %
		Y	4.35	65.81	15.63		150.0	
		Z	4.25	66.95	16.50		150.0	
10528-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.50	66.29	15.92	0.00	150.0	± 9.6 %
		Y	4.37	65.82	15.66		150.0	
		Z	4.26	66.95	16.53		150.0	
10529-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.50	66.29	15.92	0.00	150.0	± 9.6 %
		Y	4.37	65.82	15.66		150.0	
		Z	4.26	66.95	16.53		150.0	
10531-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.48	66.36	15.92	0.00	150.0	± 9.6 %
		Y	4.33	65.86	15.64		150.0	
		Z	4.21	66.92	16.48		150.0	
10532-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.35	66.22	15.85	0.00	150.0	± 9.6 %
		Y	4.21	65.71	15.56		150.0	
		Z	4.11	66.80	16.43		150.0	
10533-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.51	66.35	15.92	0.00	150.0	± 9.6 %
		Y	4.37	65.89	15.66		150.0	
		Z	4.26	67.08	16.55		150.0	
10534-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.05	66.37	15.99	0.00	150.0	± 9.6 %
		Y	4.94	65.96	15.81		150.0	
		Z	4.84	66.67	16.54		150.0	
10535-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.11	66.53	16.07	0.00	150.0	± 9.6 %
		Y	5.00	66.13	15.88		150.0	
		Z	4.87	66.81	16.62		150.0	
10536-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	4.99	66.50	16.03	0.00	150.0	± 9.6 %
		Y	4.88	66.09	15.84		150.0	
		Z	4.76	66.80	16.58		150.0	
10537-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.04	66.45	16.01	0.00	150.0	± 9.6 %
		Y	4.93	66.06	15.83		150.0	
		Z	4.87	66.94	16.66		150.0	
10538-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.12	66.46	16.05	0.00	150.0	± 9.6 %
		Y	5.01	66.06	15.88		150.0	
		Z	4.87	66.70	16.57		150.0	
10540-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.05	66.45	16.06	0.00	150.0	± 9.6 %
		Y	4.94	66.03	15.87		150.0	
		Z	4.81	66.67	16.58		150.0	

10541-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.03	66.35	16.00	0.00	150.0	± 9.6 %
		Y	4.91	65.91	15.79		150.0	
		Z	4.81	66.64	16.54		150.0	
10542-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.19	66.43	16.06	0.00	150.0	± 9.6 %
		Y	5.08	66.04	15.88		150.0	
		Z	4.95	66.69	16.58		150.0	
10543-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.25	66.44	16.09	0.00	150.0	± 9.6 %
		Y	5.15	66.10	15.94		150.0	
		Z	5.03	66.83	16.69		150.0	
10544-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.37	66.47	15.99	0.00	150.0	± 9.6 %
		Y	5.28	66.07	15.82		150.0	
		Z	5.21	66.60	16.48		150.0	
10545-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.55	66.87	16.14	0.00	150.0	± 9.6 %
		Y	5.48	66.56	16.03		150.0	
		Z	5.42	67.24	16.77		150.0	
10546-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.42	66.63	16.03	0.00	150.0	± 9.6 %
		Y	5.32	66.20	15.86		150.0	
		Z	5.23	66.72	16.51		150.0	
10547-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.49	66.69	16.05	0.00	150.0	± 9.6 %
		Y	5.40	66.32	15.91		150.0	
		Z	5.44	67.30	16.80		150.0	
10548-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.68	67.44	16.41	0.00	150.0	± 9.6 %
		Y	5.61	67.14	16.29		150.0	
		Z	5.44	67.46	16.86		150.0	
10550-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.46	66.70	16.08	0.00	150.0	± 9.6 %
		Y	5.39	66.41	15.97		150.0	
		Z	5.44	67.48	16.91		150.0	
10551-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.45	66.69	16.03	0.00	150.0	± 9.6 %
		Y	5.33	66.22	15.84		150.0	
		Z	5.21	66.64	16.46		150.0	
10552-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.38	66.56	15.97	0.00	150.0	± 9.6 %
		Y	5.29	66.14	15.80		150.0	
		Z	5.21	66.76	16.51		150.0	
10553-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.45	66.56	16.00	0.00	150.0	± 9.6 %
		Y	5.35	66.13	15.83		150.0	
		Z	5.25	66.64	16.47		150.0	
10554-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.78	66.82	16.07	0.00	150.0	± 9.6 %
		Y	5.71	66.44	15.93		150.0	
		Z	5.67	66.90	16.54		150.0	
10555-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.90	67.09	16.19	0.00	150.0	± 9.6 %
		Y	5.82	66.72	16.05		150.0	
		Z	5.76	67.16	16.66		150.0	
10556-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	5.92	67.15	16.21	0.00	150.0	± 9.6 %
		Y	5.85	66.81	16.09		150.0	
		Z	5.85	67.43	16.79		150.0	
10557-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.88	67.05	16.18	0.00	150.0	± 9.6 %
		Y	5.80	66.65	16.03		150.0	
		Z	5.73	67.07	16.62		150.0	

10558-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.93	67.20	16.27	0.00	150.0	± 9.6 %
		Y	5.83	66.77	16.10		150.0	
		Z	5.70	67.00	16.61		150.0	
10560-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.92	67.06	16.23	0.00	150.0	± 9.6 %
		Y	5.83	66.66	16.08		150.0	
		Z	5.73	66.98	16.63		150.0	
10561-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.85	67.03	16.26	0.00	150.0	± 9.6 %
		Y	5.77	66.66	16.12		150.0	
		Z	5.67	66.99	16.67		150.0	
10562-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	5.94	67.32	16.40	0.00	150.0	± 9.6 %
		Y	5.83	66.85	16.21		150.0	
		Z	5.72	67.13	16.74		150.0	
10563-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.03	67.22	16.31	0.00	150.0	± 9.6 %
		Y	5.94	66.85	16.18		150.0	
		Z	5.87	67.29	16.79		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.77	66.79	16.29	0.46	150.0	± 9.6 %
		Y	4.66	66.43	16.09		150.0	
		Z	4.53	67.38	16.84		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	4.99	67.21	16.61	0.46	150.0	± 9.6 %
		Y	4.86	66.84	16.41		150.0	
		Z	4.70	67.76	17.13		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.82	67.05	16.42	0.46	150.0	± 9.6 %
		Y	4.69	66.65	16.20		150.0	
		Z	4.55	67.57	16.95		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.85	67.43	16.77	0.46	150.0	± 9.6 %
		Y	4.72	67.02	16.56		150.0	
		Z	4.58	67.97	17.33		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.73	66.84	16.20	0.46	150.0	± 9.6 %
		Y	4.60	66.42	15.96		150.0	
		Z	4.41	67.18	16.62		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.82	67.57	16.86	0.46	150.0	± 9.6 %
		Y	4.69	67.19	16.66		150.0	
		Z	4.60	68.35	17.57		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.84	67.40	16.78	0.46	150.0	± 9.6 %
		Y	4.71	67.03	16.58		150.0	
		Z	4.56	68.01	17.38		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.12	63.92	15.25	0.46	130.0	± 9.6 %
		Y	1.01	62.56	14.19		130.0	
		Z	1.16	67.01	17.67		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.12	64.43	15.58	0.46	130.0	± 9.6 %
		Y	1.01	62.96	14.46		130.0	
		Z	1.19	67.98	18.26		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	1.38	80.48	21.60	0.46	130.0	± 9.6 %
		Y	0.74	70.76	16.62		130.0	
		Z	100.00	166.51	46.17		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.17	69.37	18.21	0.46	130.0	± 9.6 %
		Y	0.97	66.56	16.37		130.0	
		Z	1.84	82.04	24.87		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.55	66.56	16.33	0.46	130.0	± 9.6 %
		Y	4.44	66.20	16.13		130.0	
		Z	4.32	67.20	16.89		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.58	66.73	16.40	0.46	130.0	± 9.6 %
		Y	4.46	66.38	16.20		130.0	
		Z	4.35	67.48	17.02		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.76	67.00	16.56	0.46	130.0	± 9.6 %
		Y	4.64	66.64	16.36		130.0	
		Z	4.49	67.66	17.14		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.66	67.14	16.65	0.46	130.0	± 9.6 %
		Y	4.53	66.75	16.45		130.0	
		Z	4.41	67.83	17.27		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.42	66.41	15.96	0.46	130.0	± 9.6 %
		Y	4.29	65.99	15.72		130.0	
		Z	4.15	66.91	16.47		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.47	66.47	15.99	0.46	130.0	± 9.6 %
		Y	4.34	66.06	15.76		130.0	
		Z	4.16	66.89	16.44		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.56	67.18	16.60	0.46	130.0	± 9.6 %
		Y	4.43	66.79	16.40		130.0	
		Z	4.35	68.05	17.33		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.36	66.18	15.75	0.46	130.0	± 9.6 %
		Y	4.23	65.77	15.51		130.0	
		Z	4.07	66.70	16.26		130.0	
10583-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.55	66.56	16.33	0.46	130.0	± 9.6 %
		Y	4.44	66.20	16.13		130.0	
		Z	4.32	67.20	16.89		130.0	
10584-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.58	66.73	16.40	0.46	130.0	± 9.6 %
		Y	4.46	66.38	16.20		130.0	
		Z	4.35	67.48	17.02		130.0	
10585-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.76	67.00	16.56	0.46	130.0	± 9.6 %
		Y	4.64	66.64	16.36		130.0	
		Z	4.49	67.66	17.14		130.0	
10586-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.66	67.14	16.65	0.46	130.0	± 9.6 %
		Y	4.53	66.75	16.45		130.0	
		Z	4.41	67.83	17.27		130.0	
10587-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.42	66.41	15.96	0.46	130.0	± 9.6 %
		Y	4.29	65.99	15.72		130.0	
		Z	4.15	66.91	16.47		130.0	
10588-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.47	66.47	15.99	0.46	130.0	± 9.6 %
		Y	4.34	66.06	15.76		130.0	
		Z	4.16	66.89	16.44		130.0	
10589-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.56	67.18	16.60	0.46	130.0	± 9.6 %
		Y	4.43	66.79	16.40		130.0	
		Z	4.35	68.05	17.33		130.0	
10590-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.36	66.18	15.75	0.46	130.0	± 9.6 %
		Y	4.23	65.77	15.51		130.0	
		Z	4.07	66.70	16.26		130.0	

10591-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.71	66.63	16.44	0.46	130.0	± 9.6 %
		Y	4.60	66.29	16.26		130.0	
		Z	4.48	67.29	17.03		130.0	
10592-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.84	66.95	16.57	0.46	130.0	± 9.6 %
		Y	4.72	66.60	16.39		130.0	
		Z	4.57	67.53	17.14		130.0	
10593-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.76	66.84	16.44	0.46	130.0	± 9.6 %
		Y	4.64	66.47	16.24		130.0	
		Z	4.49	67.44	17.01		130.0	
10594-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.82	67.01	16.59	0.46	130.0	± 9.6 %
		Y	4.69	66.64	16.41		130.0	
		Z	4.55	67.60	17.18		130.0	
10595-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.78	66.97	16.49	0.46	130.0	± 9.6 %
		Y	4.66	66.61	16.31		130.0	
		Z	4.51	67.61	17.10		130.0	
10596-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.72	66.96	16.50	0.46	130.0	± 9.6 %
		Y	4.59	66.58	16.30		130.0	
		Z	4.43	67.54	17.08		130.0	
10597-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.67	66.84	16.37	0.46	130.0	± 9.6 %
		Y	4.54	66.45	16.16		130.0	
		Z	4.40	67.40	16.91		130.0	
10598-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.65	67.06	16.62	0.46	130.0	± 9.6 %
		Y	4.52	66.66	16.41		130.0	
		Z	4.41	67.68	17.21		130.0	
10599-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.37	67.11	16.64	0.46	130.0	± 9.6 %
		Y	5.30	66.90	16.58		130.0	
		Z	5.43	68.49	17.76		130.0	
10600-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.48	67.47	16.80	0.46	130.0	± 9.6 %
		Y	5.44	67.38	16.80		130.0	
		Z	5.37	68.31	17.64		130.0	
10601-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.38	67.27	16.71	0.46	130.0	± 9.6 %
		Y	5.32	67.07	16.65		130.0	
		Z	5.29	68.14	17.57		130.0	
10602-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.51	67.42	16.71	0.46	130.0	± 9.6 %
		Y	5.45	67.23	16.66		130.0	
		Z	5.33	67.99	17.42		130.0	
10603-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.56	67.64	16.95	0.46	130.0	± 9.6 %
		Y	5.53	67.58	16.97		130.0	
		Z	5.29	67.90	17.51		130.0	
10604-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.44	67.30	16.76	0.46	130.0	± 9.6 %
		Y	5.41	67.23	16.78		130.0	
		Z	5.21	67.60	17.33		130.0	
10605-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.49	67.43	16.83	0.46	130.0	± 9.6 %
		Y	5.43	67.25	16.78		130.0	
		Z	5.25	67.78	17.43		130.0	
10606-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.23	66.74	16.34	0.46	130.0	± 9.6 %
		Y	5.17	66.56	16.29		130.0	
		Z	5.19	67.74	17.26		130.0	

10607-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.55	65.96	16.07	0.46	130.0	± 9.6 %
		Y	4.43	65.59	15.87		130.0	
		Z	4.35	66.73	16.73		130.0	
10608-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.71	66.34	16.23	0.46	130.0	± 9.6 %
		Y	4.58	65.94	16.03		130.0	
		Z	4.45	67.00	16.86		130.0	
10609-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.61	66.18	16.06	0.46	130.0	± 9.6 %
		Y	4.48	65.77	15.84		130.0	
		Z	4.36	66.86	16.69		130.0	
10610-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.66	66.33	16.22	0.46	130.0	± 9.6 %
		Y	4.53	65.93	16.01		130.0	
		Z	4.41	67.03	16.87		130.0	
10611-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.57	66.14	16.07	0.46	130.0	± 9.6 %
		Y	4.44	65.73	15.86		130.0	
		Z	4.32	66.80	16.69		130.0	
10612-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.57	66.29	16.12	0.46	130.0	± 9.6 %
		Y	4.44	65.87	15.89		130.0	
		Z	4.29	66.90	16.73		130.0	
10613-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.57	66.14	15.98	0.46	130.0	± 9.6 %
		Y	4.43	65.70	15.75		130.0	
		Z	4.29	66.69	16.55		130.0	
10614-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.52	66.33	16.21	0.46	130.0	± 9.6 %
		Y	4.39	65.89	15.98		130.0	
		Z	4.28	66.96	16.83		130.0	
10615-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.57	65.99	15.86	0.46	130.0	± 9.6 %
		Y	4.44	65.58	15.63		130.0	
		Z	4.31	66.67	16.47		130.0	
10616-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.19	66.38	16.26	0.46	130.0	± 9.6 %
		Y	5.10	66.03	16.12		130.0	
		Z	4.99	66.75	16.86		130.0	
10617-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.26	66.56	16.33	0.46	130.0	± 9.6 %
		Y	5.17	66.25	16.21		130.0	
		Z	5.03	66.90	16.92		130.0	
10618-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.15	66.58	16.35	0.46	130.0	± 9.6 %
		Y	5.06	66.26	16.22		130.0	
		Z	4.94	66.92	16.95		130.0	
10619-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.16	66.37	16.18	0.46	130.0	± 9.6 %
		Y	5.07	66.06	16.06		130.0	
		Z	5.03	67.03	16.93		130.0	
10620-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.24	66.40	16.24	0.46	130.0	± 9.6 %
		Y	5.15	66.09	16.13		130.0	
		Z	5.01	66.69	16.81		130.0	
10621-AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.25	66.54	16.43	0.46	130.0	± 9.6 %
		Y	5.15	66.19	16.30		130.0	
		Z	5.02	66.78	16.97		130.0	
10622-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.26	66.70	16.51	0.46	130.0	± 9.6 %
		Y	5.15	66.29	16.34		130.0	
		Z	5.02	66.91	17.04		130.0	

10623-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.14	66.22	16.14	0.46	130.0	± 9.6 %
		Y	5.03	65.82	15.97		130.0	
		Z	4.94	66.57	16.72		130.0	
10624-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.33	66.43	16.30	0.46	130.0	± 9.6 %
		Y	5.24	66.10	16.18		130.0	
		Z	5.10	66.74	16.87		130.0	
10625-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.58	67.07	16.68	0.46	130.0	± 9.6 %
		Y	5.39	66.45	16.42		130.0	
		Z	5.23	67.07	17.11		130.0	
10626-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.51	66.45	16.23	0.46	130.0	± 9.6 %
		Y	5.43	66.10	16.10		130.0	
		Z	5.35	66.63	16.76		130.0	
10627-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.73	66.99	16.46	0.46	130.0	± 9.6 %
		Y	5.69	66.81	16.43		130.0	
		Z	5.63	67.47	17.17		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.52	66.48	16.14	0.46	130.0	± 9.6 %
		Y	5.43	66.11	16.01		130.0	
		Z	5.34	66.61	16.66		130.0	
10629-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.60	66.56	16.18	0.46	130.0	± 9.6 %
		Y	5.54	66.30	16.10		130.0	
		Z	5.64	67.50	17.11		130.0	
10630-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.92	67.73	16.77	0.46	130.0	± 9.6 %
		Y	5.89	67.56	16.73		130.0	
		Z	5.64	67.67	17.20		130.0	
10631-AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.87	67.68	16.92	0.46	130.0	± 9.6 %
		Y	5.78	67.32	16.80		130.0	
		Z	5.62	67.70	17.39		130.0	
10632-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.70	67.07	16.64	0.46	130.0	± 9.6 %
		Y	5.67	66.92	16.62		130.0	
		Z	5.80	68.22	17.68		130.0	
10633-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.59	66.68	16.27	0.46	130.0	± 9.6 %
		Y	5.49	66.30	16.14		130.0	
		Z	5.36	66.70	16.74		130.0	
10634-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.57	66.70	16.34	0.46	130.0	± 9.6 %
		Y	5.48	66.32	16.20		130.0	
		Z	5.40	66.93	16.91		130.0	
10635-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.45	66.03	15.75	0.46	130.0	± 9.6 %
		Y	5.35	65.64	15.59		130.0	
		Z	5.23	66.11	16.22		130.0	
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.93	66.81	16.31	0.46	130.0	± 9.6 %
		Y	5.87	66.50	16.22		130.0	
		Z	5.83	66.96	16.84		130.0	
10637-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.07	67.17	16.48	0.46	130.0	± 9.6 %
		Y	6.02	66.88	16.40		130.0	
		Z	5.97	67.37	17.04		130.0	
10638-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.07	67.15	16.45	0.46	130.0	± 9.6 %
		Y	6.02	66.88	16.37		130.0	
		Z	6.05	67.63	17.15		130.0	

10639-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.04	67.08	16.45	0.46	130.0	± 9.6 %
		Y	5.98	66.75	16.35		130.0	
		Z	5.91	67.17	16.95		130.0	
10640-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.04	67.08	16.40	0.46	130.0	± 9.6 %
		Y	5.96	66.72	16.28		130.0	
		Z	5.82	66.93	16.78		130.0	
10641-AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.10	67.04	16.40	0.46	130.0	± 9.6 %
		Y	6.06	66.80	16.34		130.0	
		Z	6.00	67.28	16.98		130.0	
10642-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.13	67.25	16.67	0.46	130.0	± 9.6 %
		Y	6.06	66.93	16.57		130.0	
		Z	5.95	67.22	17.11		130.0	
10643-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	5.98	66.96	16.42	0.46	130.0	± 9.6 %
		Y	5.92	66.68	16.34		130.0	
		Z	5.80	66.93	16.86		130.0	
10644-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.09	67.31	16.62	0.46	130.0	± 9.6 %
		Y	5.99	66.89	16.46		130.0	
		Z	5.86	67.11	16.97		130.0	
10645-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.21	67.33	16.59	0.46	130.0	± 9.6 %
		Y	6.21	67.22	16.60		130.0	
		Z	6.00	67.25	17.00		130.0	
10646-AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	16.42	111.83	39.08	9.30	60.0	± 9.6 %
		Y	7.48	93.91	33.51		60.0	
		Z	8.24	101.48	38.03		60.0	
10647-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	13.25	107.26	37.80	9.30	60.0	± 9.6 %
		Y	6.56	91.19	32.64		60.0	
		Z	6.86	97.18	36.65		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.61	62.72	9.85	0.00	150.0	± 9.6 %
		Y	0.45	60.26	7.20		150.0	
		Z	0.31	60.00	4.97		150.0	
10652-AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.40	66.50	16.32	2.23	80.0	± 9.6 %
		Y	3.12	65.43	15.68		80.0	
		Z	3.58	69.50	17.50		80.0	
10653-AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.93	65.85	16.50	2.23	80.0	± 9.6 %
		Y	3.70	65.00	16.06		80.0	
		Z	3.91	67.39	17.42		80.0	
10654-AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	3.92	65.48	16.50	2.23	80.0	± 9.6 %
		Y	3.72	64.66	16.11		80.0	
		Z	3.91	66.66	17.39		80.0	
10655-AAD	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	3.99	65.45	16.54	2.23	80.0	± 9.6 %
		Y	3.79	64.62	16.15		80.0	
		Z	3.98	66.38	17.37		80.0	
10658-AAA	Pulse Waveform (200Hz, 10%)	X	100.00	108.15	24.34	10.00	50.0	± 9.6 %
		Y	42.87	96.86	20.96		50.0	
		Z	100.00	109.52	25.04		50.0	
10659-AAA	Pulse Waveform (200Hz, 20%)	X	100.00	107.90	23.20	6.99	60.0	± 9.6 %
		Y	100.00	104.59	21.35		60.0	
		Z	100.00	109.57	23.91		60.0	

10660-AAA	Pulse Waveform (200Hz, 40%)	X	100.00	110.08	22.90	3.98	80.0	± 9.6 %
		Y	100.00	101.87	18.86		80.0	
		Z	100.00	111.81	23.42		80.0	
10661-AAA	Pulse Waveform (200Hz, 60%)	X	100.00	114.06	23.41	2.22	100.0	± 9.6 %
		Y	100.00	92.16	13.92		100.0	
		Z	100.00	107.18	20.20		100.0	
10662-AAA	Pulse Waveform (200Hz, 80%)	X	100.00	119.59	23.99	0.97	120.0	± 9.6 %
		Y	13.69	60.41	1.41		120.0	
		Z	0.02	60.01	20.0		120.0	

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

APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

1) The network analyzer and probe system was configured and calibrated.
2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
3) The complex admittance with respect to the probe aperture was measured
4) The complex relative permittivity ε' can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\varepsilon_r\varepsilon_0}{[\ln(b/a)]^2}\int_a^b\int_a^b\int_0^\pi \cos\phi' \frac{\exp\left[-j\omega r(\mu_0\varepsilon_r'\varepsilon_0)^{1/2}\right]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

3 Composition / Information on ingredients

3.2 Mixtures
Description: Aqueous solution with surfactants and inhibitors
Declarable, or hazardous components:

CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-0000	**Ethanediol** STOT RE 2, H373; Acute Tox. 4, H302	>1.0-4.9%
CAS: 68608-26-4 EINECS: 271-781-5 Reg.nr.: 01-2119527859-22-0000	**Sodium petroleum sulfonate** Eye Irrit. 2, H319	< 2.9%
CAS: 107-41-5 EINECS: 203-489-0 Reg.nr.: 01-2119539582-35-0000	**Hexylene Glycol / 2-Methyl-pentane-2,4-diol** Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.9%
CAS: 68920-66-1 NLP: 500-236-9 Reg.nr.: 01-2119489407-26-0000	**Alkoxylated alcohol, > C_{16}** Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.0%

Additional information:
For the wording of the listed risk phrases refer to section 16.
Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential.
The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

Figure D-1
Composition of Head and Body Tissue Equivalent Matter

Note: Liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below

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Measurement Certificate / Material Test

Item Name	**Head Tissue Simulating Liquid (HBBL600-10000V6)**
Product No.	SL AAH U16 BC (Batch: 181031-2)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

Test Condition

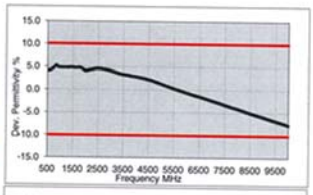
Ambient Condition	22°C ; 30% humidity
TSL Temperature	22°C
Test Date	31-Oct-18
Operator	CL

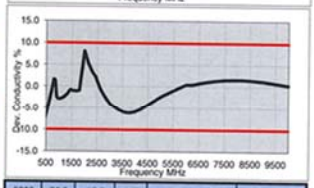
Additional Information

TSL Density
TSL Heat-capacity

Results

	Measured			Target		Diff.to Target [%]	
f [MHz]	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
800	43.8	20.5	0.91	41.7	0.90	5.1	1.4
825	43.8	20.1	0.92	41.6	0.91	5.3	1.5
835	43.8	19.9	0.93	41.5	0.91	5.4	2.0
850	43.7	19.7	0.93	41.5	0.92	5.3	1.5
900	43.5	18.9	0.95	41.5	0.97	4.8	-2.1
1400	42.5	15.0	1.17	40.6	1.18	4.7	-0.8
1450	42.5	14.8	1.19	40.5	1.20	4.9	-0.8
1600	42.2	14.3	1.27	40.3	1.28	4.7	-1.1
1625	42.2	14.2	1.29	40.3	1.30	4.8	-0.7
1640	42.2	14.2	1.30	40.3	1.31	4.8	-0.5
1650	42.1	14.2	1.30	40.2	1.31	4.6	-1.0
1700	42.1	14.0	1.33	40.2	1.34	4.8	-0.9
1750	42.0	13.9	1.36	40.1	1.37	4.8	-0.8
1800	41.9	13.9	1.39	40.0	1.40	4.7	-0.7
1810	41.9	13.8	1.40	40.0	1.40	4.7	0.0
1825	41.9	13.8	1.41	40.0	1.40	4.7	0.7
1850	41.8	13.8	1.42	40.0	1.40	4.5	1.4
1900	41.8	13.7	1.45	40.0	1.40	4.5	3.6
1950	41.7	13.7	1.48	40.0	1.40	4.3	5.7
2000	41.6	13.6	1.51	40.0	1.40	4.0	7.9
2050	41.6	13.6	1.55	39.9	1.44	4.2	7.3
2100	41.5	13.5	1.58	39.8	1.49	4.2	6.1
2150	41.4	13.5	1.62	39.7	1.53	4.2	5.7
2200	41.4	13.5	1.65	39.6	1.58	4.4	4.6
2250	41.3	13.5	1.69	39.6	1.62	4.4	4.2
2300	41.2	13.5	1.72	39.5	1.67	4.4	3.2
2350	41.1	13.5	1.76	39.4	1.71	4.4	2.9
2400	41.1	13.5	1.80	39.3	1.76	4.6	2.5
2450	41.0	13.5	1.84	39.2	1.80	4.6	2.2
2500	40.9	13.5	1.88	39.1	1.85	4.5	1.4
2550	40.8	13.5	1.92	39.1	1.91	4.4	0.6
2600	40.8	13.6	1.96	39.0	1.96	4.6	-0.2
3500	39.2	14.1	2.74	37.9	2.91	3.3	-5.8
3700	38.9	14.2	2.93	37.7	3.12	3.1	-6.1





5200	36.3	15.8	4.57	36.0	4.66	0.9	-1.7
5250	36.2	15.9	4.63	35.9	4.71	0.8	-1.6
5300	36.1	15.9	4.69	35.9	4.76	0.7	-1.4
5500	35.8	16.1	4.92	35.6	4.96	0.3	-0.9
5600	35.6	16.2	5.04	35.5	5.07	0.1	-0.6
5700	35.4	16.2	5.15	35.4	5.17	0.0	-0.3
5800	35.2	16.3	5.27	35.3	5.27	-0.2	0.0
6000	34.9	16.5	5.50	35.1	5.48	-0.6	0.5
6500	34.0	16.9	6.12	34.5	6.07	-1.4	0.9
7000	33.1	17.3	6.74	33.9	6.65	-2.3	1.3
7500	32.2	17.6	7.36	33.3	7.24	-3.2	1.6
8000	31.4	17.9	7.97	32.7	7.84	-4.1	1.7
8500	30.5	18.2	8.59	32.1	8.45	-5.0	1.6
9000	29.7	18.4	9.20	31.5	9.08	-5.9	1.3
9500	28.9	18.5	9.80	31.0	9.71	-6.8	0.9
10000	28.1	18.7	10.40	30.4	10.36	-7.6	0.4

TSL Dielectric Parameters

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Figure D-2
750 – 5800 MHz Head Tissue Equivalent Matter

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Measurement Certificate / Material Test

Item Name	**Body Tissue Simulating Liquid (MBBL600-6000V6)**
Product No.	SL AAM U16 BC (Batch: 181029-1)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the KDB 865664 compliance standard.

Test Condition

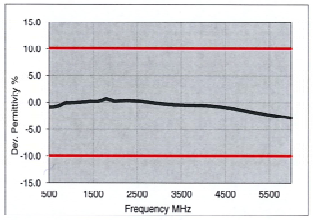
Ambient Condition	22°C ; 30% humidity
TSL Temperature	22°C
Test Date	30-Oct-18
Operator	CL

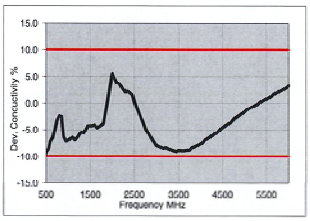
Additional Information

TSL Density
TSL Heat-capacity

Results

	Measured			Target		Diff.to Target [%]	
f [MHz]	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
800	55.1	21.3	0.95	55.3	0.97	-0.4	-2.1
825	55.1	20.8	0.96	55.2	0.98	-0.3	-2.0
835	55.1	20.6	0.96	55.1	0.99	0.0	-2.5
850	55.1	20.4	0.96	55.2	0.99	-0.1	-3.0
900	55.0	19.7	0.98	55.0	1.05	0.0	-6.7
1400	54.2	15.6	1.22	54.1	1.28	0.2	-4.7
1450	54.1	15.4	1.24	54.0	1.30	0.2	-4.6
1500	54.1	15.3	1.27	53.9	1.33	0.3	-4.5
1550	54.0	15.1	1.30	53.9	1.36	0.2	-4.4
1600	53.9	15.0	1.33	53.8	1.39	0.2	-4.3
1625	53.9	14.9	1.35	53.8	1.41	0.3	-4.3
1640	53.9	14.9	1.36	53.7	1.42	0.3	-4.2
1650	53.8	14.9	1.36	53.7	1.43	0.2	-4.9
1700	53.8	14.8	1.40	53.6	1.46	0.4	-4.1
1750	53.7	14.7	1.43	53.4	1.49	0.5	-4.0
1800	53.7	14.6	1.46	53.3	1.52	0.8	-3.9
1810	53.7	14.6	1.47	53.3	1.52	0.8	-3.3
1825	53.7	14.6	1.48	53.3	1.52	0.8	-2.6
1850	53.6	14.5	1.50	53.3	1.52	0.6	-1.3
1900	53.5	14.5	1.53	53.3	1.52	0.4	0.7
1950	53.5	14.5	1.57	53.3	1.52	0.4	3.3
2000	53.4	14.4	1.60	53.3	1.52	0.2	5.3
2050	53.4	14.4	1.64	53.2	1.57	0.3	4.5
2100	53.3	14.4	1.68	53.2	1.62	0.2	3.7
2150	53.3	14.4	1.72	53.1	1.66	0.4	3.6
2200	53.2	14.4	1.76	53.0	1.71	0.3	2.9
2250	53.1	14.4	1.81	53.0	1.76	0.2	2.8
2300	53.1	14.4	1.85	52.9	1.81	0.4	2.2
2350	53.0	14.5	1.89	52.8	1.85	0.3	2.2
2400	52.9	14.5	1.94	52.8	1.90	0.2	2.1
2450	52.9	14.5	1.98	52.7	1.95	0.4	1.5
2500	52.8	14.6	2.03	52.6	2.02	0.3	0.5
2550	52.7	14.6	2.07	52.6	2.09	0.2	-1.0
2600	52.6	14.7	2.12	52.5	2.16	0.2	-1.9





3500	51.1	15.5	3.02	51.3	3.31	-0.4	-8.8
3700	50.8	15.7	3.24	51.1	3.55	-0.5	-8.8
5200	48.1	18.2	5.27	49.0	5.30	-1.8	-0.6
5250	48.0	18.3	5.34	49.0	5.36	-1.9	-0.4
5300	47.9	18.4	5.41	48.9	5.42	-2.0	-0.2
5500	47.5	18.6	5.70	48.6	5.65	-2.2	0.8
5600	47.3	18.8	5.84	48.5	5.77	-2.3	1.3
5700	47.1	18.9	5.99	48.3	5.88	-2.5	1.8
5800	47.0	19.0	6.14	48.2	6.00	-2.6	2.3

TSL Dielectric Parameters 1

Figure D-3
750 – 5800 MHz Body Tissue Equivalent Matter

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APPENDIX E: SAR SYSTEM VALIDATION

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table E-1
SAR System Validation Summary – 1g

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE TYPE	PROBE CAL. POINT		COND. (σ)	PERM. (εr)	CW VALIDATION			MOD. VALIDATION		
									SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM5	750	3/1/2019	3318	ES3DV3	750	Head	0.860	42.739	PASS	PASS	PASS	N/A	N/A	N/A
AM5	835	3/1/2019	3318	ES3DV3	835	Head	0.891	42.496	PASS	PASS	PASS	GMSK	PASS	N/A
AM4	835	4/26/2019	7532	EX3DV4	835	Head	0.924	40.952	PASS	PASS	PASS	GMSK	PASS	N/A
AM7	1750	4/8/2019	3837	EX3DV4	1750	Head	1.346	40.360	PASS	PASS	PASS	N/A	N/A	N/A
AM5	1900	3/5/2019	3318	ES3DV3	1900	Head	1.442	39.336	PASS	PASS	PASS	GMSK	PASS	N/A
AM2	1900	6/18/2019	7490	EX3DV4	1900	Head	1.407	38.580	PASS	PASS	PASS	GMSK	PASS	N/A
AM8	2450	7/8/2019	7416	EX3DV4	2450	Head	1.867	37.830	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM5	2450	4/16/2019	3318	ES3DV3	2450	Head	1.867	37.929	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM2	2450	6/17/2019	7490	EX3DV4	2450	Head	1.786	37.800	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM5	2600	3/4/2019	3318	ES3DV3	2600	Head	1.979	39.111	PASS	PASS	PASS	TDD	PASS	N/A
AM2	2600	6/17/2019	7490	EX3DV4	2600	Head	1.904	37.530	PASS	PASS	PASS	TDD	PASS	N/A

Table E-2
SAR System Validation Summary – 10g

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE TYPE	PROBE CAL. POINT		COND. (σ)	PERM. (εr)	CW VALIDATION			MOD. VALIDATION		
									SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM7	750	2/21/2019	3837	EX3DV4	750	Body	0.982	53.971	PASS	PASS	PASS	N/A	N/A	N/A
AM4	750	4/23/2019	7532	EX3DV4	750	Body	0.973	53.428	PASS	PASS	PASS	N/A	N/A	N/A
AM7	835	2/21/2019	3837	EX3DV4	835	Body	1.013	53.782	PASS	PASS	PASS	GMSK	PASS	N/A
AM7	1750	2/21/2019	3837	EX3DV4	1750	Body	1.490	52.305	PASS	PASS	PASS	N/A	N/A	N/A
AM4	1900	4/23/2019	7532	EX3DV4	1900	Body	1.582	51.521	PASS	PASS	PASS	GMSK	PASS	N/A
AM3	2450	12/10/2018	7420	EX3DV4	2450	Body	2.044	51.289	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM7	2450	4/2/2019	3837	EX3DV4	2450	Body	2.026	50.280	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM4	2450	4/23/2019	7532	EX3DV4	2450	Body	2.027	50.762	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM7	2600	4/2/2019	3837	EX3DV4	2600	Body	2.161	50.025	PASS	PASS	PASS	TDD	PASS	N/A

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

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