

APPENDIX A: SAR TEST DATA

PCTEST ENGINEERING LABORATORY, INC.

DUT: JNZPR0001; Type: Mouse Pad; Serial: 1703LZ0E0BY8

Communication System: UID 0, CW; Frequency: 6.78 MHz; Duty Cycle: 1:1

Medium: 6 MHz, Medium parameters used:

$f = 7 \text{ MHz}$; $\sigma = 0.738 \text{ S/m}$; $\epsilon_r = 55.573$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 03-13-2017; Ambient Temp: 20.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7420; ConvF(21.72, 21.72, 21.72); Calibrated: 11/15/2016;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1466; Calibrated: 1/16/2017

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: 1202

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Mode: A4WP, Extremity SAR, Top Side

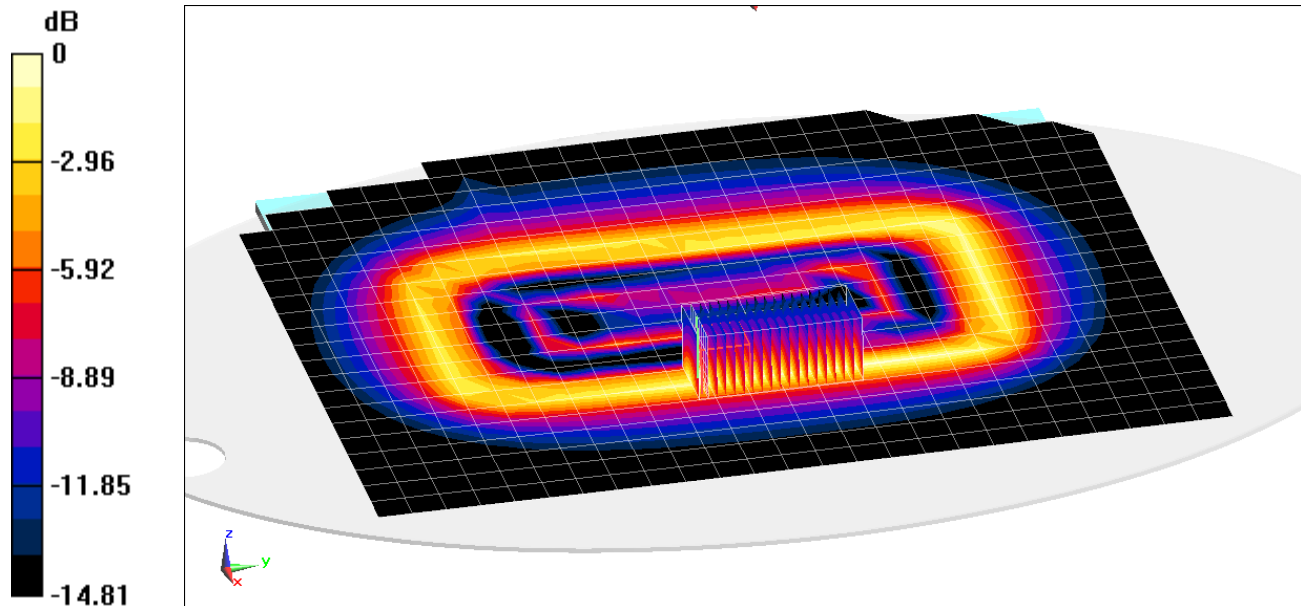
Area Scan (23x26x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (9x19x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 21.03 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.914 W/kg

SAR(1 g) = 0.337 W/kg; SAR(10 g) = 0.185 W/kg (SAR corrected for target medium)



0 dB = 0.586 W/kg = -2.32 dBW/kg

APPENDIX B: SYSTEM VERIFICATION

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 6 MHz; Type: CLA-6; Serial: 1002

Communication System: UID 0, CW; Frequency: 6 MHz; Duty Cycle: 1:1

Medium: 6 MHz, Medium parameters used:

$f = 6 \text{ MHz}$; $\sigma = 0.737 \text{ S/m}$; $\epsilon_r = 55.867$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 03-13-2017; Ambient Temp: 20.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7420; ConvF(21.72, 21.72, 21.72); Calibrated: 11/15/2016;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1466; Calibrated: 1/16/2017

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: 1202

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

6 MHz System Verification at 30.0 dBm (1000 mW)

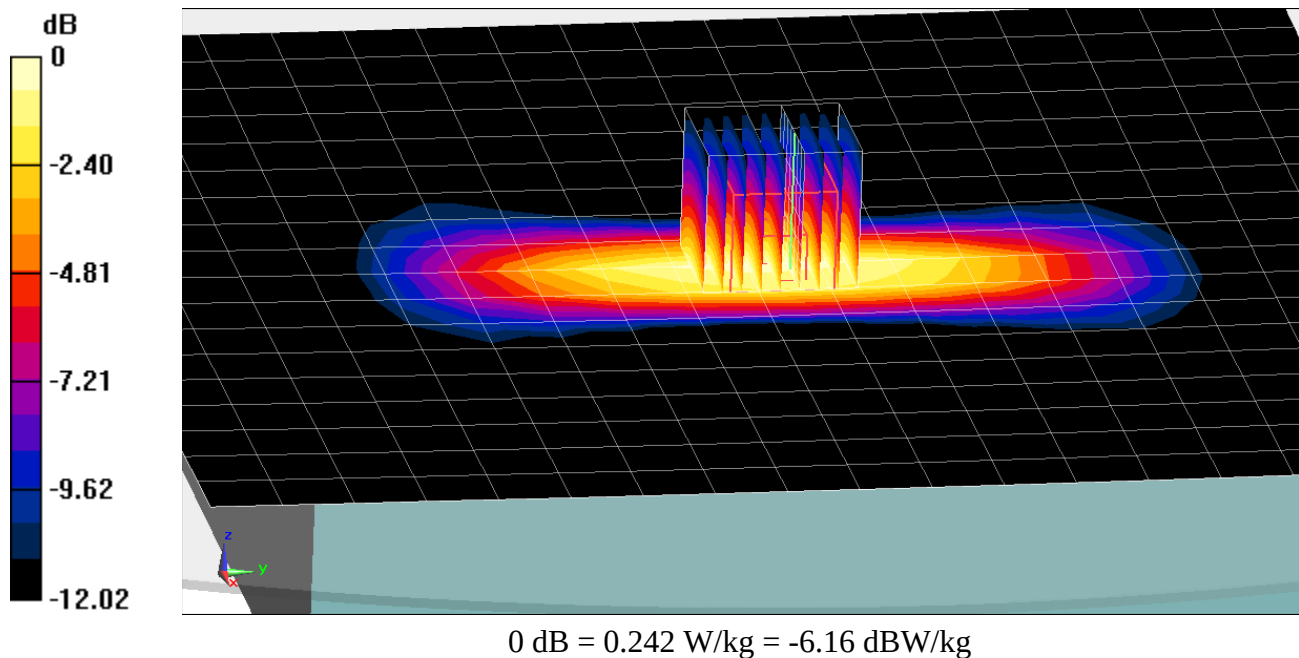
Area Scan (19x19x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (8x9x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 0.334 W/kg

SAR(1 g) = 0.167 W/kg; SAR(10 g) = 0.103 W/kg (SAR corrected for target medium)

Deviation(1 g) = -7.22%; Deviation(10 g) = -8.85%



APPENDIX C: PROBE CALIBRATION



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

Accreditation No.: **SCS 0108**

Client **PC Test**

Certificate No: **EX3-7420_Nov16**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7420**

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

BNV
11-21-2016

Calibration date: **November 15, 2016**

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 $(22 \pm 3)^\circ\text{C}$ 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	06-Apr-16 (No. 217-02288/02289)	Apr-17
Power sensor NRP-Z91	SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17
Power sensor NRP-Z91	SN: 103245	06-Apr-16 (No. 217-02289)	Apr-17
Reference 20 dB Attenuator	SN: S5277 (20x)	05-Apr-16 (No. 217-02293)	Apr-17
Reference Probe ES3DV2	SN: 3013	31-Dec-15 (No. ES3-3013_Dec15)	Dec-16
DAE4	SN: 660	23-Dec-15 (No. DAE4-660_Dec15)	Dec-16
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

Calibrated by:	Name Jeton Kastrati	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Function Technical Manager	Signature
			Issued: November 15, 2016

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



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

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Glossary:

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

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

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

Probe EX3DV4

SN:7420

Manufactured:	March 10, 2016
Repaired:	November 8, 2016
Calibrated:	November 15, 2016

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 ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.49	0.53	0.58	$\pm 10.1 \%$
DCP (mV) ^B	98.5	97.1	93.6	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	159.5	$\pm 2.7 \%$
		Y	0.0	0.0	1.0		171.4	
		Z	0.0	0.0	1.0		164.1	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $\text{ms}\cdot\text{V}^{-2}$	T2 $\text{ms}\cdot\text{V}^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	54.53	413.6	36.71	12.12	0.91	4.967	0.549	0.367	1.004
Y	47.64	366.1	37.44	7.862	0.678	4.984	1.127	0.29	1.005
Z	23.04	180.7	38.89	4.68	0.726	5.002	0	0	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)
6	55.5	0.75	21.72	21.72	21.72	0.00	1.00	± 13.3 %
13	55.5	0.75	19.24	19.24	19.24	0.00	1.00	± 13.3 %
750	41.9	0.89	10.76	10.76	10.76	0.53	0.82	± 12.0 %
835	41.5	0.90	10.10	10.10	10.10	0.48	0.88	± 12.0 %
1750	40.1	1.37	8.50	8.50	8.50	0.25	0.85	± 12.0 %
1900	40.0	1.40	8.17	8.17	8.17	0.31	0.85	± 12.0 %
2300	39.5	1.67	7.74	7.74	7.74	0.33	0.80	± 12.0 %
2450	39.2	1.80	7.38	7.38	7.38	0.36	0.80	± 12.0 %
2600	39.0	1.96	7.20	7.20	7.20	0.39	0.82	± 12.0 %

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

^F At frequencies 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	9.79	9.79	9.79	0.44	0.80	± 12.0 %
835	55.2	0.97	9.73	9.73	9.73	0.39	0.92	± 12.0 %
1750	53.4	1.49	8.05	8.05	8.05	0.39	0.87	± 12.0 %
1900	53.3	1.52	7.79	7.79	7.79	0.34	0.92	± 12.0 %
2300	52.9	1.81	7.59	7.59	7.59	0.40	0.88	± 12.0 %
2450	52.7	1.95	7.45	7.45	7.45	0.39	0.80	± 12.0 %
2600	52.5	2.16	7.18	7.18	7.18	0.31	0.95	± 12.0 %

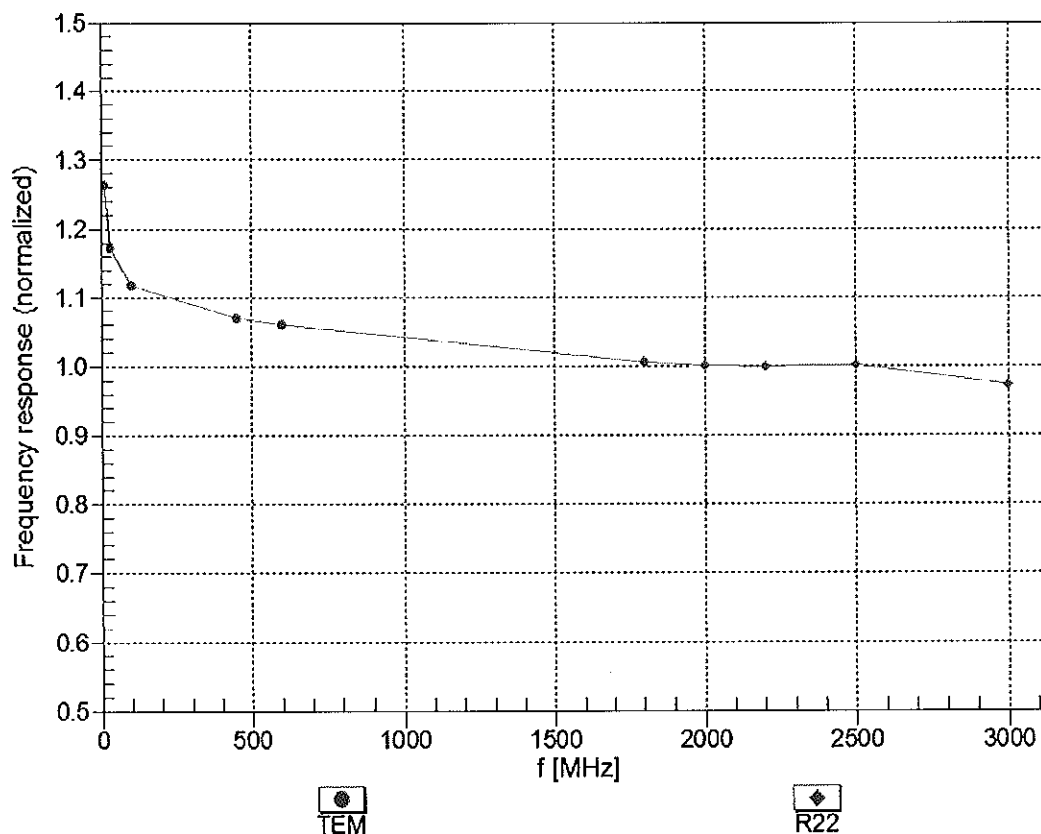
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is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

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

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

Frequency Response of E-Field

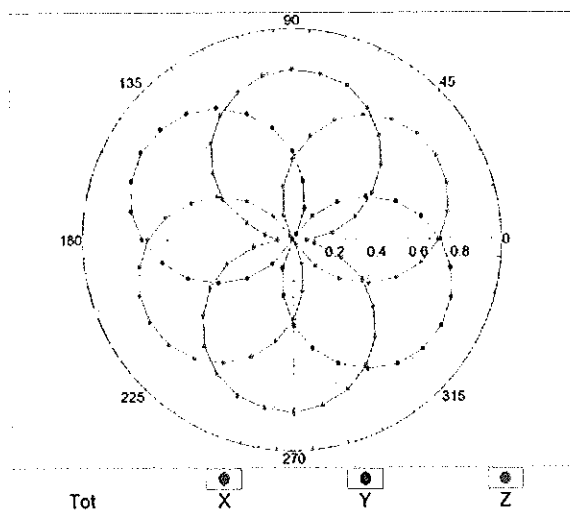
(TEM-Cell:ifi110 EXX, Waveguide: R22)



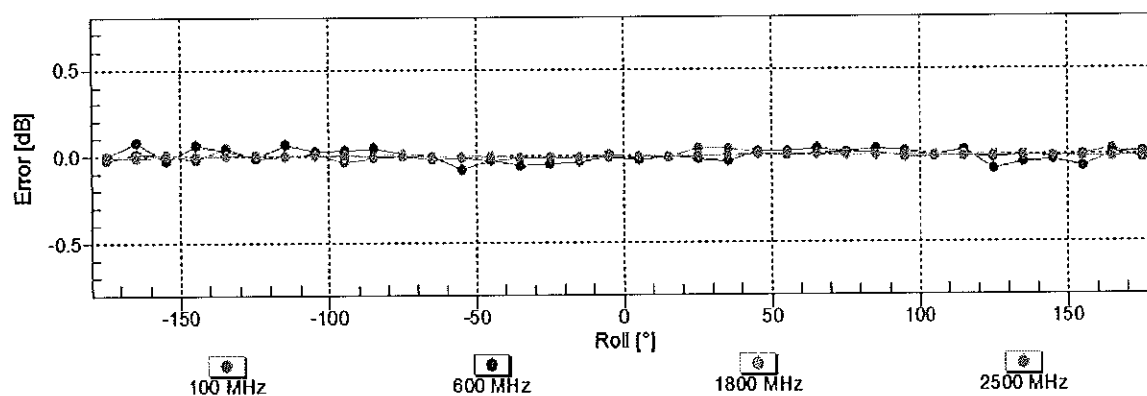
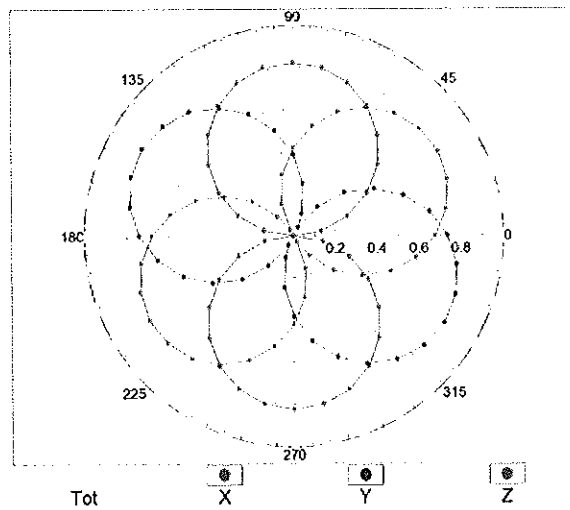
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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

f=600 MHz,TEM

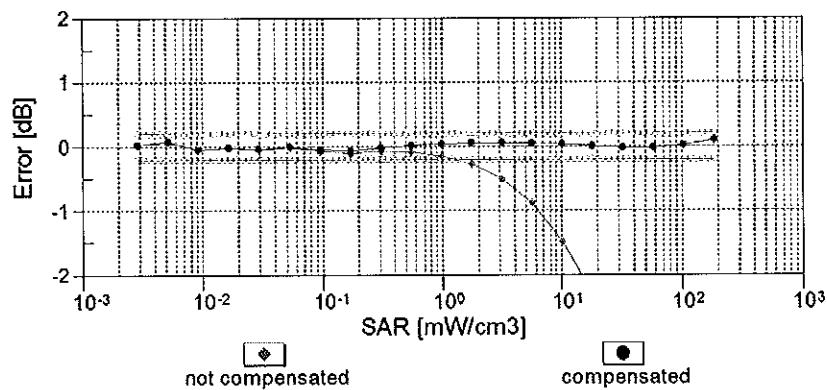
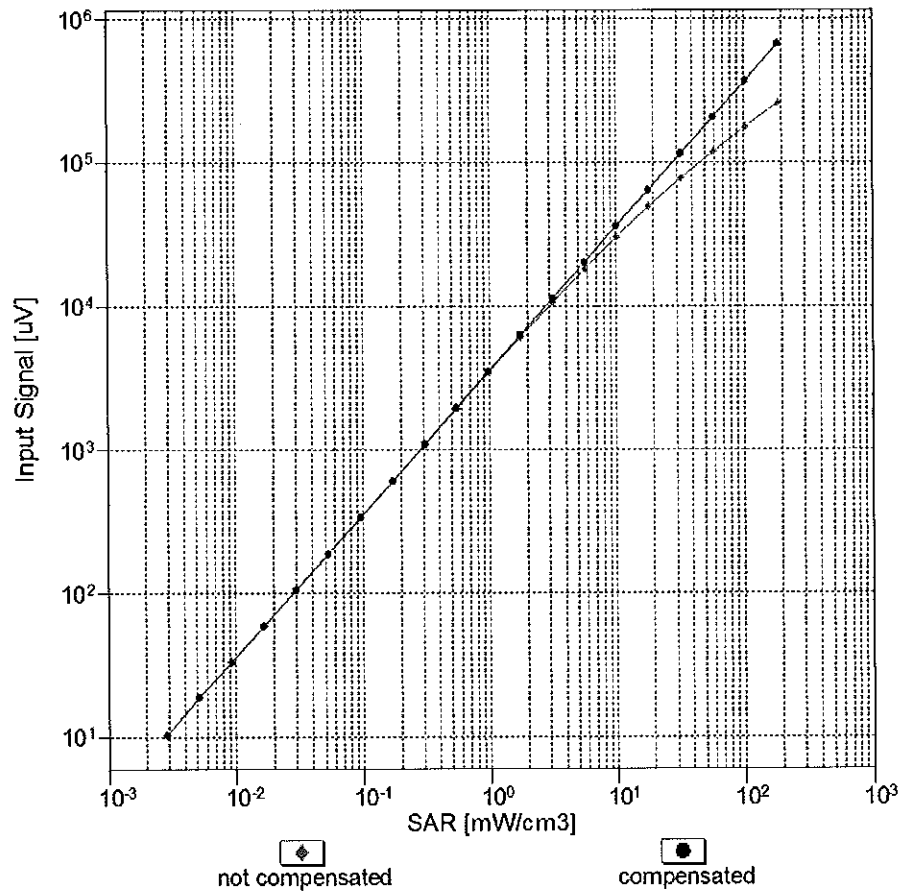


f=1800 MHz,R22

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

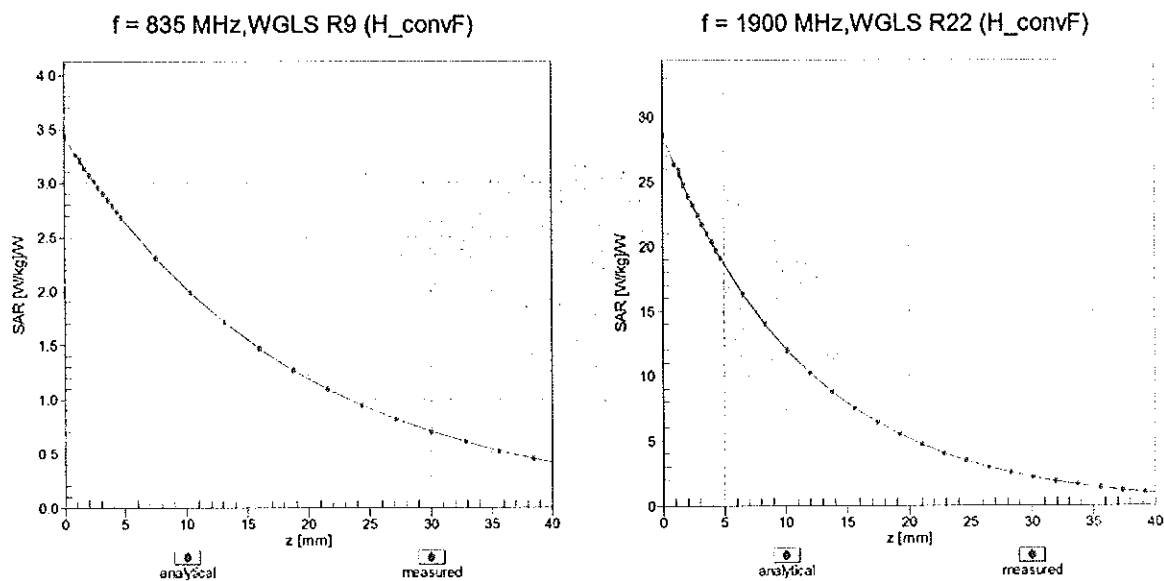
Dynamic Range f(SAR_{head})

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



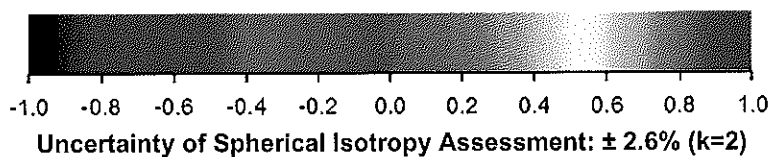
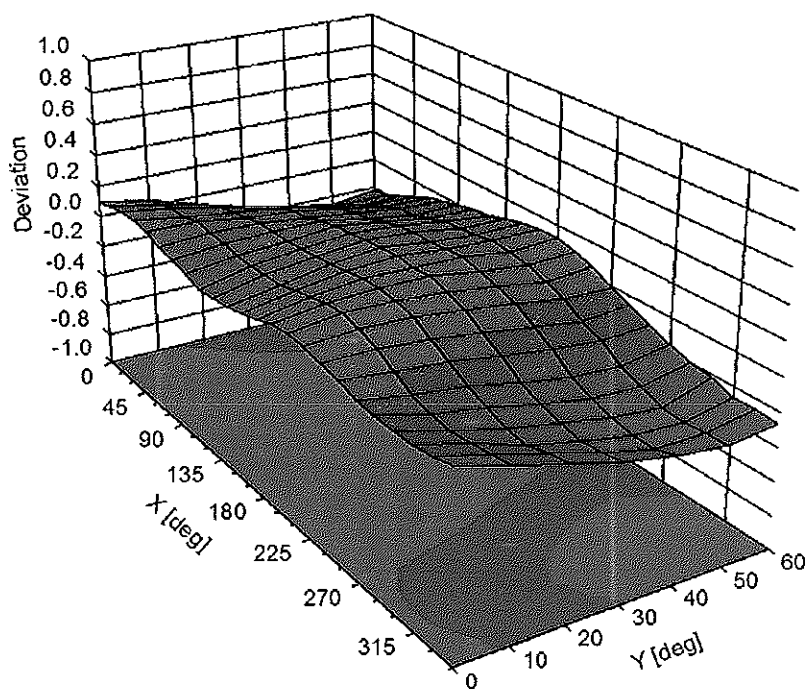
Uncertainty of Linearity Assessment: $\pm 0.6\%$ (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), $f = 900 \text{ MHz}$



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

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	45.2
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu V}$	C	D dB	VR mV	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	159.5	$\pm 2.7 \%$
		Y	0.00	0.00	1.00		171.4	
		Z	0.00	0.00	1.00		164.1	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	2.43	65.22	10.13	10.00	20.0	$\pm 9.6 \%$
		Y	2.32	65.38	10.14		20.0	
		Z	3.73	71.16	13.29		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.16	69.21	16.55	0.00	150.0	$\pm 9.6 \%$
		Y	1.01	66.29	14.74		150.0	
		Z	1.14	70.56	16.72		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.19	64.01	15.52	0.41	150.0	$\pm 9.6 \%$
		Y	1.15	62.97	14.69		150.0	
		Z	1.19	64.38	15.67		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.90	66.42	16.96	1.46	150.0	$\pm 9.6 \%$
		Y	4.84	66.28	16.85		150.0	
		Z	4.51	67.15	17.24		150.0	
10021- DAB	GSM-FDD (TDMA, GMSK)	X	8.14	79.57	17.13	9.39	50.0	$\pm 9.6 \%$
		Y	18.20	89.87	20.28		50.0	
		Z	100.00	114.91	27.89		50.0	
10023- DAB	GPRS-FDD (TDMA, GMSK, TN 0)	X	7.25	77.99	16.61	9.57	50.0	$\pm 9.6 \%$
		Y	12.46	85.17	18.90		50.0	
		Z	100.00	113.91	27.49		50.0	
10024- DAB	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	12.21	85.07	17.62	6.56	60.0	$\pm 9.6 \%$
		Y	100.00	108.36	23.50		60.0	
		Z	100.00	117.27	27.55		60.0	
10025- DAB	EDGE-FDD (TDMA, 8PSK, TN 0)	X	12.60	102.15	39.77	12.57	50.0	$\pm 9.6 \%$
		Y	5.29	76.62	28.97		50.0	
		Z	9.79	97.99	39.91		50.0	
10026- DAB	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	10.93	94.76	33.07	9.56	60.0	$\pm 9.6 \%$
		Y	7.23	86.02	30.15		60.0	
		Z	6.12	84.62	30.99		60.0	
10027- DAB	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	105.63	21.84	4.80	80.0	$\pm 9.6 \%$
		Y	100.00	108.61	22.82		80.0	
		Z	100.00	123.15	29.12		80.0	
10028- DAB	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	106.04	21.40	3.55	100.0	$\pm 9.6 \%$
		Y	100.00	110.01	22.75		100.0	
		Z	100.00	132.68	32.27		100.0	
10029- DAB	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	6.36	82.64	27.40	7.80	80.0	$\pm 9.6 \%$
		Y	4.66	76.48	25.11		80.0	
		Z	4.04	74.94	25.54		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	9.54	82.58	16.27	5.30	70.0	$\pm 9.6 \%$
		Y	48.33	99.84	20.78		70.0	
		Z	100.00	115.72	26.19		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	105.08	19.85	1.88	100.0	$\pm 9.6 \%$
		Y	100.00	108.46	20.90		100.0	
		Z	100.00	137.60	32.47		100.0	

10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	111.95	21.84	1.17	100.0	± 9.6 %
		Y	100.00	115.72	23.02		100.0	
		Z	100.00	164.49	41.88		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	5.81	82.16	20.87	5.30	70.0	± 9.6 %
		Y	4.09	78.14	19.48		70.0	
		Z	4.63	78.38	17.73		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	2.41	73.80	17.05	1.88	100.0	± 9.6 %
		Y	1.74	69.75	15.06		100.0	
		Z	1.27	66.42	10.71		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	1.88	71.77	16.19	1.17	100.0	± 9.6 %
		Y	1.41	68.07	14.15		100.0	
		Z	0.94	64.64	9.52		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	6.91	84.95	21.90	5.30	70.0	± 9.6 %
		Y	4.70	80.45	20.41		70.0	
		Z	5.41	80.68	18.63		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	2.30	73.30	16.82	1.88	100.0	± 9.6 %
		Y	1.66	69.27	14.82		100.0	
		Z	1.14	65.43	10.27		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	1.90	72.14	16.45	1.17	100.0	± 9.6 %
		Y	1.41	68.26	14.34		100.0	
		Z	0.95	64.81	9.73		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	2.40	75.60	17.85	0.00	150.0	± 9.6 %
		Y	1.67	70.34	14.99		150.0	
		Z	0.53	61.46	7.22		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	5.44	75.50	14.64	7.78	50.0	± 9.6 %
		Y	9.51	82.43	16.91		50.0	
		Z	100.00	112.60	25.89		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	99.83	0.17	0.00	150.0	± 9.6 %
		Y	0.01	90.98	0.51		150.0	
		Z	0.03	60.00	40.49		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	5.85	71.88	15.77	13.80	25.0	± 9.6 %
		Y	6.97	74.08	16.43		25.0	
		Z	13.27	83.05	20.11		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	5.94	74.47	15.58	10.79	40.0	± 9.6 %
		Y	7.25	77.38	16.54		40.0	
		Z	25.83	94.84	22.75		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	9.57	84.03	21.52	9.03	50.0	± 9.6 %
		Y	10.06	85.68	22.07		50.0	
		Z	12.46	87.97	21.95		50.0	
10058-DAB	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	4.74	76.96	24.36	6.55	100.0	± 9.6 %
		Y	3.71	72.29	22.51		100.0	
		Z	3.31	71.10	22.94		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.22	64.96	15.96	0.61	110.0	± 9.6 %
		Y	1.15	63.58	15.00		110.0	
		Z	1.19	65.12	16.08		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	8.58	99.97	26.18	1.30	110.0	± 9.6 %
		Y	1.86	78.57	19.65		110.0	
		Z	5.26	98.42	27.56		110.0	

10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	2.49	77.11	20.52	2.04	110.0	± 9.6 %
		Y	1.69	71.29	18.25		110.0	
		Z	1.88	74.76	20.40		110.0	
10062-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.74	66.55	16.54	0.49	100.0	± 9.6 %
		Y	4.67	66.38	16.39		100.0	
		Z	4.30	67.07	16.64		100.0	
10063-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.75	66.61	16.60	0.72	100.0	± 9.6 %
		Y	4.67	66.43	16.45		100.0	
		Z	4.32	67.19	16.75		100.0	
10064-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.06	66.90	16.83	0.86	100.0	± 9.6 %
		Y	4.96	66.70	16.67		100.0	
		Z	4.51	67.34	16.91		100.0	
10065-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.91	66.75	16.87	1.21	100.0	± 9.6 %
		Y	4.81	66.53	16.72		100.0	
		Z	4.39	67.10	16.95		100.0	
10066-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.92	66.73	17.00	1.46	100.0	± 9.6 %
		Y	4.82	66.51	16.84		100.0	
		Z	4.39	67.02	17.04		100.0	
10067-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.19	66.80	17.37	2.04	100.0	± 9.6 %
		Y	5.10	66.65	17.25		100.0	
		Z	4.62	67.19	17.44		100.0	
10068-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.25	66.90	17.59	2.55	100.0	± 9.6 %
		Y	5.13	66.66	17.43		100.0	
		Z	4.73	67.40	17.79		100.0	
10069-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.32	66.86	17.75	2.67	100.0	± 9.6 %
		Y	5.21	66.66	17.62		100.0	
		Z	4.75	67.30	17.89		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.99	66.46	17.21	1.99	100.0	± 9.6 %
		Y	4.92	66.31	17.10		100.0	
		Z	4.62	67.24	17.55		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.96	66.77	17.39	2.30	100.0	± 9.6 %
		Y	4.88	66.56	17.26		100.0	
		Z	4.54	67.32	17.67		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.01	66.86	17.65	2.83	100.0	± 9.6 %
		Y	4.92	66.64	17.52		100.0	
		Z	4.63	67.62	18.07		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.97	66.72	17.77	3.30	100.0	± 9.6 %
		Y	4.89	66.50	17.63		100.0	
		Z	4.69	67.78	18.33		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.02	66.89	18.09	3.82	90.0	± 9.6 %
		Y	4.92	66.58	17.91		90.0	
		Z	4.74	67.88	18.62		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.01	66.62	18.15	4.15	90.0	± 9.6 %
		Y	4.92	66.36	18.01		90.0	
		Z	4.80	67.77	18.80		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.03	66.66	18.24	4.30	90.0	± 9.6 %
		Y	4.94	66.40	18.10		90.0	
		Z	4.84	67.93	18.96		90.0	

10081-CAB	CDMA2000 (1xRTT, RC3)	X	1.05	68.64	14.58	0.00	150.0	± 9.6 %
		Y	0.82	65.12	12.17		150.0	
		Z	0.36	60.39	6.28		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	0.78	60.00	4.56	4.77	80.0	± 9.6 %
		Y	0.48	56.90	2.11		80.0	
		Z	0.43	57.76	3.09		80.0	
10090-DAB	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	11.80	84.69	17.53	6.56	60.0	± 9.6 %
		Y	100.00	108.35	23.52		60.0	
		Z	100.00	117.22	27.54		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.94	68.36	16.36	0.00	150.0	± 9.6 %
		Y	1.81	67.03	15.38		150.0	
		Z	1.97	71.02	16.31		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.90	68.34	16.34	0.00	150.0	± 9.6 %
		Y	1.77	66.97	15.34		150.0	
		Z	1.94	71.01	16.34		150.0	
10099-DAB	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	10.99	94.83	33.08	9.56	60.0	± 9.6 %
		Y	7.27	86.12	30.18		60.0	
		Z	6.16	84.75	31.03		60.0	
10100-CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.35	71.21	17.25	0.00	150.0	± 9.6 %
		Y	3.08	69.65	16.46		150.0	
		Z	2.87	70.34	17.33		150.0	
10101-CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.37	67.92	16.28	0.00	150.0	± 9.6 %
		Y	3.24	67.17	15.83		150.0	
		Z	3.01	67.57	16.26		150.0	
10102-CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.47	67.83	16.35	0.00	150.0	± 9.6 %
		Y	3.35	67.16	15.93		150.0	
		Z	3.11	67.59	16.35		150.0	
10103-CAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	5.76	73.38	19.17	3.98	65.0	± 9.6 %
		Y	5.24	72.46	18.97		65.0	
		Z	4.95	73.85	20.23		65.0	
10104-CAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	6.21	72.97	19.88	3.98	65.0	± 9.6 %
		Y	5.53	71.41	19.32		65.0	
		Z	4.98	71.43	19.66		65.0	
10105-CAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	6.14	72.63	20.07	3.98	65.0	± 9.6 %
		Y	5.23	70.10	19.01		65.0	
		Z	4.82	70.47	19.47		65.0	
10108-CAC	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.94	70.41	17.08	0.00	150.0	± 9.6 %
		Y	2.69	68.91	16.28		150.0	
		Z	2.47	70.18	17.24		150.0	
10109-CAC	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.03	67.79	16.23	0.00	150.0	± 9.6 %
		Y	2.89	67.00	15.71		150.0	
		Z	2.65	67.93	16.07		150.0	
10110-CAC	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.41	69.55	16.78	0.00	150.0	± 9.6 %
		Y	2.19	68.00	15.85		150.0	
		Z	1.98	69.85	16.50		150.0	
10111-CAC	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.76	68.62	16.61	0.00	150.0	± 9.6 %
		Y	2.59	67.72	15.92		150.0	
		Z	2.41	69.63	15.94		150.0	

10112-CAC	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.15	67.72	16.26	0.00	150.0	± 9.6 %
		Y	3.02	67.02	15.77		150.0	
		Z	2.77	68.05	16.14		150.0	
10113-CAC	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.91	68.69	16.70	0.00	150.0	± 9.6 %
		Y	2.75	67.89	16.07		150.0	
		Z	2.51	69.63	15.95		150.0	
10114-CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.22	67.25	16.58	0.00	150.0	± 9.6 %
		Y	5.17	67.10	16.47		150.0	
		Z	4.81	67.26	16.78		150.0	
10115-CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.57	67.54	16.73	0.00	150.0	± 9.6 %
		Y	5.46	67.24	16.55		150.0	
		Z	5.08	67.56	16.89		150.0	
10116-CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.34	67.50	16.64	0.00	150.0	± 9.6 %
		Y	5.26	67.29	16.49		150.0	
		Z	4.89	67.52	16.83		150.0	
10117-CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.20	67.18	16.57	0.00	150.0	± 9.6 %
		Y	5.13	66.94	16.41		150.0	
		Z	4.79	67.16	16.74		150.0	
10118-CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.65	67.72	16.83	0.00	150.0	± 9.6 %
		Y	5.55	67.48	16.68		150.0	
		Z	5.06	67.43	16.83		150.0	
10119-CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.31	67.44	16.61	0.00	150.0	± 9.6 %
		Y	5.25	67.25	16.48		150.0	
		Z	4.88	67.45	16.80		150.0	
10140-CAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.51	67.84	16.27	0.00	150.0	± 9.6 %
		Y	3.38	67.17	15.85		150.0	
		Z	3.10	67.67	16.25		150.0	
10141-CAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.63	67.89	16.41	0.00	150.0	± 9.6 %
		Y	3.51	67.28	16.02		150.0	
		Z	3.23	67.91	16.46		150.0	
10142-CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.20	69.68	16.62	0.00	150.0	± 9.6 %
		Y	1.95	67.92	15.46		150.0	
		Z	1.65	69.03	14.75		150.0	
10143-CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.66	69.59	16.55	0.00	150.0	± 9.6 %
		Y	2.44	68.32	15.56		150.0	
		Z	1.81	67.19	12.91		150.0	
10144-CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.43	67.32	14.98	0.00	150.0	± 9.6 %
		Y	2.23	66.19	14.01		150.0	
		Z	1.44	63.62	10.46		150.0	
10145-CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.52	67.63	13.84	0.00	150.0	± 9.6 %
		Y	1.20	64.56	11.54		150.0	
		Z	0.49	60.00	4.97		150.0	
10146-CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.13	67.25	12.71	0.00	150.0	± 9.6 %
		Y	1.79	65.02	10.89		150.0	
		Z	0.56	60.00	4.14		150.0	
10147-CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.53	69.48	13.90	0.00	150.0	± 9.6 %
		Y	2.02	66.44	11.72		150.0	
		Z	0.56	60.00	4.19		150.0	

10149-CAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	3.04	67.85	16.28	0.00	150.0	± 9.6 %
		Y	2.90	67.06	15.75		150.0	
		Z	2.66	68.01	16.12		150.0	
10150-CAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.16	67.77	16.30	0.00	150.0	± 9.6 %
		Y	3.03	67.07	15.82		150.0	
		Z	2.78	68.13	16.19		150.0	
10151-CAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	6.19	76.02	20.34	3.98	65.0	± 9.6 %
		Y	5.35	74.38	19.86		65.0	
		Z	5.11	76.57	21.20		65.0	
10152-CAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.73	72.80	19.55	3.98	65.0	± 9.6 %
		Y	5.04	71.14	18.89		65.0	
		Z	4.46	71.23	18.81		65.0	
10153-CAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	6.06	73.61	20.27	3.98	65.0	± 9.6 %
		Y	5.36	72.01	19.65		65.0	
		Z	4.81	72.39	19.70		65.0	
10154-CAC	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.47	70.02	17.07	0.00	150.0	± 9.6 %
		Y	2.23	68.38	16.10		150.0	
		Z	2.02	70.21	16.71		150.0	
10155-CAC	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.76	68.63	16.62	0.00	150.0	± 9.6 %
		Y	2.60	67.73	15.94		150.0	
		Z	2.42	69.73	16.00		150.0	
10156-CAC	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.07	70.05	16.61	0.00	150.0	± 9.6 %
		Y	1.79	67.92	15.21		150.0	
		Z	1.33	67.25	13.04		150.0	
10157-CAC	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.29	68.15	15.20	0.00	150.0	± 9.6 %
		Y	2.05	66.66	14.00		150.0	
		Z	1.15	62.54	9.17		150.0	
10158-CAC	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.91	68.75	16.75	0.00	150.0	± 9.6 %
		Y	2.75	67.95	16.12		150.0	
		Z	2.53	69.76	16.03		150.0	
10159-CAC	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.42	68.65	15.50	0.00	150.0	± 9.6 %
		Y	2.15	67.08	14.26		150.0	
		Z	1.17	62.48	9.13		150.0	
10160-CAB	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.90	69.22	16.78	0.00	150.0	± 9.6 %
		Y	2.74	68.23	16.15		150.0	
		Z	2.46	69.34	16.71		150.0	
10161-CAB	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.06	67.71	16.25	0.00	150.0	± 9.6 %
		Y	2.92	67.01	15.74		150.0	
		Z	2.65	68.11	15.90		150.0	
10162-CAB	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.16	67.80	16.33	0.00	150.0	± 9.6 %
		Y	3.03	67.16	15.85		150.0	
		Z	2.75	68.40	16.05		150.0	
10166-CAC	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.57	69.05	18.90	3.01	150.0	± 9.6 %
		Y	3.53	69.12	18.92		150.0	
		Z	2.52	66.47	18.63		150.0	
10167-CAC	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.34	71.85	19.36	3.01	150.0	± 9.6 %
		Y	4.34	72.23	19.47		150.0	
		Z	2.47	67.78	18.67		150.0	

10168-CAC	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.77	73.89	20.59	3.01	150.0	± 9.6 %
		Y	4.85	74.66	20.88		150.0	
		Z	2.66	69.66	20.05		150.0	
10169-CAB	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.94	68.86	18.87	3.01	150.0	± 9.6 %
		Y	2.90	68.59	18.70		150.0	
		Z	2.02	64.07	17.48		150.0	
10170-CAB	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	4.00	74.84	21.23	3.01	150.0	± 9.6 %
		Y	4.04	75.11	21.31		150.0	
		Z	1.95	66.00	18.66		150.0	
10171-AAB	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	3.29	70.75	18.48	3.01	150.0	± 9.6 %
		Y	3.27	70.65	18.37		150.0	
		Z	1.75	64.10	16.62		150.0	
10172-CAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	5.76	82.38	24.47	6.02	65.0	± 9.6 %
		Y	4.72	80.10	24.04		65.0	
		Z	2.36	71.61	22.43		65.0	
10173-CAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	10.12	88.77	24.73	6.02	65.0	± 9.6 %
		Y	8.35	87.50	24.76		65.0	
		Z	2.70	76.00	22.91		65.0	
10174-CAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	8.70	85.16	22.98	6.02	65.0	± 9.6 %
		Y	6.21	81.66	22.20		65.0	
		Z	2.37	73.32	21.17		65.0	
10175-CAC	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.90	68.57	18.62	3.01	150.0	± 9.6 %
		Y	2.87	68.28	18.45		150.0	
		Z	2.01	63.94	17.31		150.0	
10176-CAC	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	4.00	74.86	21.24	3.01	150.0	± 9.6 %
		Y	4.05	75.14	21.33		150.0	
		Z	1.95	66.01	18.67		150.0	
10177-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.93	68.72	18.72	3.01	150.0	± 9.6 %
		Y	2.89	68.43	18.55		150.0	
		Z	2.01	63.99	17.34		150.0	
10178-CAC	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	3.96	74.61	21.11	3.01	150.0	± 9.6 %
		Y	4.01	74.90	21.20		150.0	
		Z	1.95	65.97	18.64		150.0	
10179-CAC	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.61	72.67	19.72	3.01	150.0	± 9.6 %
		Y	3.61	72.72	19.69		150.0	
		Z	1.84	65.09	17.60		150.0	
10180-CAC	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.28	70.68	18.43	3.01	150.0	± 9.6 %
		Y	3.26	70.58	18.32		150.0	
		Z	1.75	64.10	16.62		150.0	
10181-CAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.92	68.70	18.71	3.01	150.0	± 9.6 %
		Y	2.89	68.41	18.54		150.0	
		Z	2.01	63.98	17.34		150.0	
10182-CAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.95	74.59	21.10	3.01	150.0	± 9.6 %
		Y	4.00	74.87	21.19		150.0	
		Z	1.94	65.96	18.63		150.0	
10183-AAA	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	3.27	70.65	18.42	3.01	150.0	± 9.6 %
		Y	3.26	70.56	18.31		150.0	
		Z	1.75	64.09	16.61		150.0	

10184-CAC	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.93	68.74	18.74	3.01	150.0	± 9.6 %
		Y	2.90	68.46	18.56		150.0	
		Z	2.01	64.00	17.35		150.0	
10185-CAC	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.97	74.66	21.14	3.01	150.0	± 9.6 %
		Y	4.02	74.95	21.23		150.0	
		Z	1.95	66.00	18.66		150.0	
10186-AAC	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	3.29	70.72	18.46	3.01	150.0	± 9.6 %
		Y	3.27	70.63	18.35		150.0	
		Z	1.75	64.13	16.64		150.0	
10187-CAC	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.94	68.79	18.79	3.01	150.0	± 9.6 %
		Y	2.91	68.51	18.63		150.0	
		Z	2.02	64.07	17.44		150.0	
10188-CAC	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	4.10	75.34	21.53	3.01	150.0	± 9.6 %
		Y	4.16	75.68	21.64		150.0	
		Z	1.97	66.25	18.88		150.0	
10189-AAC	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.37	71.15	18.74	3.01	150.0	± 9.6 %
		Y	3.35	71.07	18.64		150.0	
		Z	1.77	64.31	16.82		150.0	
10193-CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.63	66.67	16.33	0.00	150.0	± 9.6 %
		Y	4.55	66.47	16.14		150.0	
		Z	4.21	67.33	16.43		150.0	
10194-CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.81	67.01	16.45	0.00	150.0	± 9.6 %
		Y	4.72	66.78	16.26		150.0	
		Z	4.31	67.41	16.55		150.0	
10195-CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.85	67.03	16.46	0.00	150.0	± 9.6 %
		Y	4.76	66.81	16.28		150.0	
		Z	4.32	67.35	16.53		150.0	
10196-CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.64	66.75	16.36	0.00	150.0	± 9.6 %
		Y	4.55	66.53	16.15		150.0	
		Z	4.18	67.25	16.37		150.0	
10197-CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.83	67.03	16.46	0.00	150.0	± 9.6 %
		Y	4.73	66.80	16.28		150.0	
		Z	4.31	67.41	16.55		150.0	
10198-CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.86	67.05	16.47	0.00	150.0	± 9.6 %
		Y	4.76	66.83	16.29		150.0	
		Z	4.31	67.34	16.52		150.0	
10219-CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.59	66.77	16.33	0.00	150.0	± 9.6 %
		Y	4.50	66.54	16.11		150.0	
		Z	4.14	67.35	16.39		150.0	
10220-CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.82	67.01	16.46	0.00	150.0	± 9.6 %
		Y	4.73	66.77	16.27		150.0	
		Z	4.30	67.36	16.53		150.0	
10221-CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.86	66.98	16.46	0.00	150.0	± 9.6 %
		Y	4.77	66.76	16.28		150.0	
		Z	4.33	67.33	16.52		150.0	
10222-CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.18	67.20	16.57	0.00	150.0	± 9.6 %
		Y	5.10	66.94	16.40		150.0	
		Z	4.78	67.19	16.75		150.0	

10223-CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.50	67.40	16.68	0.00	150.0	± 9.6 %
		Y	5.42	67.19	16.55		150.0	
		Z	4.97	67.26	16.75		150.0	
10224-CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.23	67.30	16.54	0.00	150.0	± 9.6 %
		Y	5.15	67.05	16.39		150.0	
		Z	4.81	67.33	16.74		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.91	66.35	15.72	0.00	150.0	± 9.6 %
		Y	2.81	65.85	15.20		150.0	
		Z	2.42	66.27	14.05		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	10.73	89.86	25.19	6.02	65.0	± 9.6 %
		Y	8.86	88.63	25.23		65.0	
		Z	2.80	76.73	23.30		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	9.43	86.40	23.44	6.02	65.0	± 9.6 %
		Y	8.40	86.42	23.85		65.0	
		Z	2.76	76.19	22.42		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	8.24	89.17	26.91	6.02	65.0	± 9.6 %
		Y	5.74	84.06	25.60		65.0	
		Z	2.66	74.15	23.62		65.0	
10229-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	10.19	88.87	24.77	6.02	65.0	± 9.6 %
		Y	8.41	87.60	24.80		65.0	
		Z	2.72	76.05	22.94		65.0	
10230-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	8.98	85.53	23.07	6.02	65.0	± 9.6 %
		Y	7.95	85.44	23.44		65.0	
		Z	2.65	75.39	22.03		65.0	
10231-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	7.91	88.34	26.54	6.02	65.0	± 9.6 %
		Y	5.54	83.33	25.25		65.0	
		Z	2.60	73.64	23.32		65.0	
10232-CAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	10.17	88.85	24.77	6.02	65.0	± 9.6 %
		Y	8.39	87.58	24.79		65.0	
		Z	2.71	76.04	22.93		65.0	
10233-CAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	8.96	85.52	23.06	6.02	65.0	± 9.6 %
		Y	7.93	85.42	23.43		65.0	
		Z	2.64	75.35	22.02		65.0	
10234-CAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	7.62	87.51	26.15	6.02	65.0	± 9.6 %
		Y	5.38	82.66	24.88		65.0	
		Z	2.56	73.33	23.07		65.0	
10235-CAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	10.18	88.88	24.78	6.02	65.0	± 9.6 %
		Y	8.40	87.61	24.80		65.0	
		Z	2.71	76.05	22.94		65.0	
10236-CAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	9.05	85.64	23.10	6.02	65.0	± 9.6 %
		Y	8.01	85.56	23.48		65.0	
		Z	2.67	75.50	22.07		65.0	
10237-CAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	7.93	88.41	26.57	6.02	65.0	± 9.6 %
		Y	5.54	83.37	25.26		65.0	
		Z	2.59	73.63	23.32		65.0	
10238-CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	10.15	88.83	24.76	6.02	65.0	± 9.6 %
		Y	8.37	87.55	24.78		65.0	
		Z	2.71	76.02	22.93		65.0	

10239-CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	8.94	85.50	23.06	6.02	65.0	± 9.6 %
		Y	7.90	85.39	23.42		65.0	
		Z	2.63	75.32	22.01		65.0	
10240-CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	7.90	88.36	26.55	6.02	65.0	± 9.6 %
		Y	5.53	83.32	25.25		65.0	
		Z	2.59	73.63	23.32		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	7.49	78.69	24.04	6.98	65.0	± 9.6 %
		Y	6.89	78.00	23.89		65.0	
		Z	4.84	77.47	25.10		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6.48	75.65	22.66	6.98	65.0	± 9.6 %
		Y	6.28	76.06	22.97		65.0	
		Z	4.43	75.69	24.24		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	6.06	75.47	23.50	6.98	65.0	± 9.6 %
		Y	5.16	72.72	22.35		65.0	
		Z	4.09	72.94	23.72		65.0	
10244-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	4.97	72.35	16.93	3.98	65.0	± 9.6 %
		Y	4.29	70.89	16.03		65.0	
		Z	1.96	62.93	9.43		65.0	
10245-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	4.94	72.01	16.73	3.98	65.0	± 9.6 %
		Y	4.25	70.48	15.80		65.0	
		Z	1.95	62.65	9.21		65.0	
10246-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	4.79	75.18	18.40	3.98	65.0	± 9.6 %
		Y	3.74	72.37	17.07		65.0	
		Z	1.95	64.95	11.21		65.0	
10247-CAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	4.77	72.28	17.89	3.98	65.0	± 9.6 %
		Y	4.03	70.34	16.84		65.0	
		Z	2.62	65.66	12.25		65.0	
10248-CAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	4.83	71.98	17.75	3.98	65.0	± 9.6 %
		Y	4.08	70.04	16.69		65.0	
		Z	2.59	65.10	11.95		65.0	
10249-CAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	5.71	77.87	20.27	3.98	65.0	± 9.6 %
		Y	4.55	75.26	19.22		65.0	
		Z	3.24	71.88	16.24		65.0	
10250-CAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	5.62	74.54	20.31	3.98	65.0	± 9.6 %
		Y	4.86	72.71	19.55		65.0	
		Z	4.26	72.62	18.63		65.0	
10251-CAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	5.49	72.91	19.30	3.98	65.0	± 9.6 %
		Y	4.77	71.21	18.53		65.0	
		Z	3.92	70.14	17.01		65.0	
10252-CAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	6.13	78.03	21.15	3.98	65.0	± 9.6 %
		Y	5.08	75.85	20.42		65.0	
		Z	4.83	77.91	21.05		65.0	
10253-CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	5.60	72.25	19.33	3.98	65.0	± 9.6 %
		Y	4.95	70.70	18.67		65.0	
		Z	4.38	70.82	18.31		65.0	
10254-CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	5.92	73.04	19.99	3.98	65.0	± 9.6 %
		Y	5.25	71.51	19.36		65.0	
		Z	4.66	71.73	19.00		65.0	

10255-CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	5.94	75.49	20.37	3.98	65.0	± 9.6 %
		Y	5.14	73.82	19.83		65.0	
		Z	4.88	75.84	20.84		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	3.99	69.19	14.54	3.98	65.0	± 9.6 %
		Y	3.33	67.40	13.33		65.0	
		Z	1.43	60.45	6.66		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	3.97	68.79	14.27	3.98	65.0	± 9.6 %
		Y	3.30	66.96	13.03		65.0	
		Z	1.43	60.28	6.43		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	3.80	71.58	16.14	3.98	65.0	± 9.6 %
		Y	2.92	68.66	14.53		65.0	
		Z	1.40	61.36	7.85		65.0	
10259-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	5.11	73.14	18.77	3.98	65.0	± 9.6 %
		Y	4.36	71.27	17.85		65.0	
		Z	3.20	68.21	14.53		65.0	
10260-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	5.17	72.98	18.72	3.98	65.0	± 9.6 %
		Y	4.42	71.12	17.79		65.0	
		Z	3.21	67.93	14.36		65.0	
10261-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	5.65	77.30	20.42	3.98	65.0	± 9.6 %
		Y	4.59	74.90	19.49		65.0	
		Z	3.77	73.88	17.90		65.0	
10262-CAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	5.62	74.50	20.28	3.98	65.0	± 9.6 %
		Y	4.85	72.67	19.51		65.0	
		Z	4.25	72.53	18.57		65.0	
10263-CAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.48	72.89	19.29	3.98	65.0	± 9.6 %
		Y	4.76	71.19	18.53		65.0	
		Z	3.92	70.13	17.01		65.0	
10264-CAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	6.09	77.88	21.07	3.98	65.0	± 9.6 %
		Y	5.04	75.70	20.34		65.0	
		Z	4.78	77.70	20.93		65.0	
10265-CAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.73	72.80	19.56	3.98	65.0	± 9.6 %
		Y	5.03	71.14	18.89		65.0	
		Z	4.46	71.24	18.81		65.0	
10266-CAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	6.06	73.60	20.26	3.98	65.0	± 9.6 %
		Y	5.35	72.00	19.64		65.0	
		Z	4.81	72.38	19.69		65.0	
10267-CAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	6.18	75.99	20.32	3.98	65.0	± 9.6 %
		Y	5.34	74.35	19.84		65.0	
		Z	5.10	76.52	21.18		65.0	
10268-CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.36	72.81	19.95	3.98	65.0	± 9.6 %
		Y	5.70	71.36	19.41		65.0	
		Z	5.15	71.65	19.76		65.0	
10269-CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	6.34	72.44	19.86	3.98	65.0	± 9.6 %
		Y	5.71	71.04	19.32		65.0	
		Z	5.21	71.46	19.67		65.0	
10270-CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.22	74.02	19.68	3.98	65.0	± 9.6 %
		Y	5.54	72.70	19.30		65.0	
		Z	5.27	74.38	20.58		65.0	

10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.68	66.72	15.64	0.00	150.0	± 9.6 %
		Y	2.59	66.16	15.10		150.0	
		Z	2.33	67.35	14.46		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.76	69.04	16.41	0.00	150.0	± 9.6 %
		Y	1.58	67.10	15.18		150.0	
		Z	1.63	70.33	16.26		150.0	
10277-CAA	PHS (QPSK)	X	2.45	62.05	7.75	9.03	50.0	± 9.6 %
		Y	2.12	61.26	6.92		50.0	
		Z	1.76	60.43	5.79		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	4.42	70.58	14.70	9.03	50.0	± 9.6 %
		Y	3.79	68.99	13.66		50.0	
		Z	2.59	63.43	9.19		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	4.56	70.89	14.89	9.03	50.0	± 9.6 %
		Y	3.91	69.27	13.85		50.0	
		Z	2.61	63.46	9.26		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	1.82	71.50	15.87	0.00	150.0	± 9.6 %
		Y	1.37	67.58	13.45		150.0	
		Z	0.45	60.18	6.17		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	1.02	68.31	14.41	0.00	150.0	± 9.6 %
		Y	0.81	64.93	12.05		150.0	
		Z	0.36	60.29	6.20		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	1.48	74.65	17.64	0.00	150.0	± 9.6 %
		Y	0.98	68.34	14.14		150.0	
		Z	0.48	63.41	8.29		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	2.63	83.63	21.55	0.00	150.0	± 9.6 %
		Y	1.41	73.49	16.88		150.0	
		Z	4.11	82.58	15.67		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	7.10	79.19	21.31	9.03	50.0	± 9.6 %
		Y	7.47	80.40	21.54		50.0	
		Z	100.00	111.12	27.46		50.0	
10297-AAA	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.95	70.52	17.15	0.00	150.0	± 9.6 %
		Y	2.70	69.00	16.34		150.0	
		Z	2.48	70.30	17.32		150.0	
10298-AAB	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.84	69.59	15.59	0.00	150.0	± 9.6 %
		Y	1.51	66.79	13.67		150.0	
		Z	0.66	60.79	7.28		150.0	
10299-AAB	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	2.69	69.79	14.77	0.00	150.0	± 9.6 %
		Y	2.42	68.23	13.46		150.0	
		Z	0.71	60.00	5.82		150.0	
10300-AAB	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	2.08	65.53	12.03	0.00	150.0	± 9.6 %
		Y	1.89	64.44	10.91		150.0	
		Z	0.55	58.24	4.01		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.66	64.70	17.30	4.17	50.0	± 9.6 %
		Y	4.61	64.80	17.22		50.0	
		Z	4.29	66.50	17.40		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.22	65.72	18.24	4.96	50.0	± 9.6 %
		Y	5.07	65.38	17.91		50.0	
		Z	4.71	66.70	17.94		50.0	

10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.97	65.36	18.10	4.96	50.0	± 9.6 %
		Y	4.81	64.96	17.72		50.0	
		Z	4.58	67.09	18.10		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.77	65.19	17.56	4.17	50.0	± 9.6 %
		Y	4.63	64.86	17.23		50.0	
		Z	4.33	66.43	17.27		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.36	66.79	19.64	6.02	35.0	± 9.6 %
		Y	4.15	66.01	18.87		35.0	
		Z	4.26	69.10	18.26		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.70	65.87	19.16	6.02	35.0	± 9.6 %
		Y	4.53	65.38	18.62		35.0	
		Z	4.45	68.13	18.59		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.60	66.11	19.17	6.02	35.0	± 9.6 %
		Y	4.41	65.48	18.57		35.0	
		Z	4.35	68.14	18.46		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.57	66.26	19.28	6.02	35.0	± 9.6 %
		Y	4.38	65.63	18.68		35.0	
		Z	4.37	68.53	18.72		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.77	66.15	19.33	6.02	35.0	± 9.6 %
		Y	4.58	65.58	18.76		35.0	
		Z	4.47	68.24	18.74		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.64	65.94	19.13	6.02	35.0	± 9.6 %
		Y	4.47	65.41	18.59		35.0	
		Z	4.44	68.34	18.69		35.0	
10311-AAA	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.32	69.75	16.76	0.00	150.0	± 9.6 %
		Y	3.06	68.32	16.02		150.0	
		Z	2.82	69.13	16.88		150.0	
10313-AAA	iDEN 1:3	X	2.85	69.50	14.30	6.99	70.0	± 9.6 %
		Y	2.34	68.58	14.28		70.0	
		Z	3.06	74.56	17.98		70.0	
10314-AAA	iDEN 1:6	X	3.65	73.83	18.77	10.00	30.0	± 9.6 %
		Y	3.16	73.18	18.96		30.0	
		Z	5.12	83.09	23.87		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.10	64.02	15.56	0.17	150.0	± 9.6 %
		Y	1.07	62.98	14.68		150.0	
		Z	1.12	64.56	15.75		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.66	66.61	16.36	0.17	150.0	± 9.6 %
		Y	4.58	66.41	16.19		150.0	
		Z	4.20	67.07	16.42		150.0	
10317-AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.66	66.61	16.36	0.17	150.0	± 9.6 %
		Y	4.58	66.41	16.19		150.0	
		Z	4.20	67.07	16.42		150.0	
10400-AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.82	67.08	16.45	0.00	150.0	± 9.6 %
		Y	4.71	66.83	16.26		150.0	
		Z	4.20	67.20	16.42		150.0	
10401-AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.48	67.20	16.57	0.00	150.0	± 9.6 %
		Y	5.45	67.14	16.50		150.0	
		Z	5.27	68.15	17.17		150.0	

10402-AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.76	67.61	16.62	0.00	150.0	± 9.6 %
		Y	5.67	67.34	16.46		150.0	
		Z	5.36	67.54	16.81		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.82	71.50	15.87	0.00	115.0	± 9.6 %
		Y	1.37	67.58	13.45		115.0	
		Z	0.45	60.18	6.17		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.82	71.50	15.87	0.00	115.0	± 9.6 %
		Y	1.37	67.58	13.45		115.0	
		Z	0.45	60.18	6.17		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	51.83	114.56	29.10	0.00	100.0	± 9.6 %
		Y	100.00	119.32	29.13		100.0	
		Z	100.00	135.37	32.78		100.0	
10410-AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.29	84.74	19.59	3.23	80.0	± 9.6 %
		Y	6.18	84.58	19.90		80.0	
		Z	6.36	99.32	27.49		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.04	63.42	15.20	0.00	150.0	± 9.6 %
		Y	1.03	62.56	14.36		150.0	
		Z	1.07	64.13	15.42		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.63	66.71	16.39	0.00	150.0	± 9.6 %
		Y	4.55	66.51	16.21		150.0	
		Z	4.18	67.17	16.45		150.0	
10417-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.63	66.71	16.39	0.00	150.0	± 9.6 %
		Y	4.55	66.51	16.21		150.0	
		Z	4.18	67.17	16.45		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	X	4.62	66.86	16.40	0.00	150.0	± 9.6 %
		Y	4.54	66.66	16.23		150.0	
		Z	4.17	67.41	16.55		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	X	4.64	66.81	16.41	0.00	150.0	± 9.6 %
		Y	4.56	66.61	16.23		150.0	
		Z	4.18	67.33	16.52		150.0	
10422-AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.76	66.81	16.42	0.00	150.0	± 9.6 %
		Y	4.68	66.62	16.25		150.0	
		Z	4.28	67.26	16.52		150.0	
10423-AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.95	67.16	16.54	0.00	150.0	± 9.6 %
		Y	4.84	66.93	16.36		150.0	
		Z	4.37	67.47	16.59		150.0	
10424-AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.86	67.11	16.52	0.00	150.0	± 9.6 %
		Y	4.76	66.88	16.33		150.0	
		Z	4.30	67.39	16.55		150.0	
10425-AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.46	67.44	16.68	0.00	150.0	± 9.6 %
		Y	5.38	67.24	16.55		150.0	
		Z	5.00	67.47	16.86		150.0	
10426-AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.46	67.44	16.68	0.00	150.0	± 9.6 %
		Y	5.40	67.31	16.58		150.0	
		Z	5.05	67.69	16.96		150.0	

10427-AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.47	67.42	16.67	0.00	150.0	± 9.6 %
		Y	5.40	67.25	16.55		150.0	
		Z	5.00	67.41	16.82		150.0	
10430-AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.36	70.70	18.38	0.00	150.0	± 9.6 %
		Y	4.24	70.59	18.09		150.0	
		Z	4.03	73.00	17.64		150.0	
10431-AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.34	67.30	16.45	0.00	150.0	± 9.6 %
		Y	4.22	67.02	16.16		150.0	
		Z	3.69	67.76	15.99		150.0	
10432-AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.63	67.16	16.48	0.00	150.0	± 9.6 %
		Y	4.52	66.91	16.26		150.0	
		Z	4.06	67.59	16.42		150.0	
10433-AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.88	67.14	16.54	0.00	150.0	± 9.6 %
		Y	4.78	66.91	16.35		150.0	
		Z	4.32	67.44	16.59		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.48	71.59	18.41	0.00	150.0	± 9.6 %
		Y	4.33	71.41	18.03		150.0	
		Z	3.64	71.72	16.16		150.0	
10435-AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.93	84.01	19.32	3.23	80.0	± 9.6 %
		Y	5.90	83.87	19.62		80.0	
		Z	5.99	98.13	27.06		80.0	
10447-AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.66	67.42	15.92	0.00	150.0	± 9.6 %
		Y	3.49	66.94	15.40		150.0	
		Z	2.70	66.27	13.43		150.0	
10448-AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.17	67.08	16.31	0.00	150.0	± 9.6 %
		Y	4.06	66.80	16.02		150.0	
		Z	3.59	67.60	15.91		150.0	
10449-AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.43	66.99	16.38	0.00	150.0	± 9.6 %
		Y	4.34	66.73	16.16		150.0	
		Z	3.93	67.43	16.34		150.0	
10450-AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.62	66.91	16.40	0.00	150.0	± 9.6 %
		Y	4.54	66.67	16.20		150.0	
		Z	4.17	67.22	16.45		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.58	67.70	15.64	0.00	150.0	± 9.6 %
		Y	3.37	67.06	14.97		150.0	
		Z	2.28	64.72	11.73		150.0	
10456-AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.31	67.98	16.82	0.00	150.0	± 9.6 %
		Y	6.26	67.81	16.72		150.0	
		Z	6.11	68.22	17.21		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.85	65.33	16.11	0.00	150.0	± 9.6 %
		Y	3.82	65.15	15.90		150.0	
		Z	3.66	66.22	16.26		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.40	67.04	15.11	0.00	150.0	± 9.6 %
		Y	3.19	66.38	14.34		150.0	
		Z	1.76	61.63	8.89		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.56	65.45	16.02	0.00	150.0	± 9.6 %
		Y	4.24	64.65	15.32		150.0	
		Z	3.25	63.42	12.24		150.0	

10460-AAA	UMTS-FDD (WCDMA, AMR)	X	1.02	70.30	17.59	0.00	150.0	± 9.6 %
		Y	0.87	66.69	15.35		150.0	
		Z	1.14	73.24	18.45		150.0	
10461-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.58	77.69	18.16	3.29	80.0	± 9.6 %
		Y	2.50	74.76	17.54		80.0	
		Z	3.60	91.29	25.97		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.01	60.31	8.09	3.23	80.0	± 9.6 %
		Y	0.88	60.00	7.92		80.0	
		Z	0.44	60.00	7.80		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.00	60.00	7.47	3.23	80.0	± 9.6 %
		Y	0.90	60.00	7.40		80.0	
		Z	1.71	67.83	9.40		80.0	
10464-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.75	73.96	16.26	3.23	80.0	± 9.6 %
		Y	2.03	71.83	15.85		80.0	
		Z	3.60	90.77	25.01		80.0	
10465-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.97	60.00	7.86	3.23	80.0	± 9.6 %
		Y	0.88	60.00	7.85		80.0	
		Z	0.44	60.00	7.71		80.0	
10466-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.00	60.00	7.42	3.23	80.0	± 9.6 %
		Y	0.90	60.00	7.35		80.0	
		Z	0.39	59.25	6.35		80.0	
10467-AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.88	74.59	16.52	3.23	80.0	± 9.6 %
		Y	2.10	72.38	16.10		80.0	
		Z	3.92	92.32	25.58		80.0	
10468-AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.97	60.03	7.89	3.23	80.0	± 9.6 %
		Y	0.88	60.00	7.87		80.0	
		Z	0.44	60.00	7.77		80.0	
10469-AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.00	60.00	7.42	3.23	80.0	± 9.6 %
		Y	0.90	60.00	7.35		80.0	
		Z	0.45	60.00	6.64		80.0	
10470-AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.87	74.56	16.51	3.23	80.0	± 9.6 %
		Y	2.10	72.36	16.08		80.0	
		Z	3.96	92.56	25.67		80.0	
10471-AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.97	60.00	7.86	3.23	80.0	± 9.6 %
		Y	0.88	60.00	7.85		80.0	
		Z	0.44	60.00	7.75		80.0	
10472-AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.00	60.00	7.40	3.23	80.0	± 9.6 %
		Y	0.90	60.00	7.33		80.0	
		Z	0.27	56.71	5.19		80.0	
10473-AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.87	74.54	16.49	3.23	80.0	± 9.6 %
		Y	2.09	72.34	16.07		80.0	
		Z	3.94	92.46	25.63		80.0	
10474-AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.97	60.00	7.86	3.23	80.0	± 9.6 %
		Y	0.87	60.00	7.85		80.0	
		Z	0.43	60.00	7.75		80.0	
10475-AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.00	60.00	7.40	3.23	80.0	± 9.6 %
		Y	0.90	60.00	7.33		80.0	
		Z	0.24	55.72	4.20		80.0	

10477-AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.97	60.00	7.84	3.23	80.0	± 9.6 %
		Y	0.87	60.00	7.83		80.0	
		Z	0.44	60.00	7.71		80.0	
10478-AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.00	60.00	7.39	3.23	80.0	± 9.6 %
		Y	0.90	60.00	7.32		80.0	
		Z	0.70	62.65	7.59		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.47	73.41	18.12	3.23	80.0	± 9.6 %
		Y	3.21	73.18	17.98		80.0	
		Z	16.52	107.26	29.58		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.38	69.92	15.16	3.23	80.0	± 9.6 %
		Y	3.03	69.25	14.64		80.0	
		Z	4.04	78.80	17.14		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.01	68.05	14.05	3.23	80.0	± 9.6 %
		Y	2.63	67.15	13.39		80.0	
		Z	1.41	66.56	11.98		80.0	
10482-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.46	68.61	15.39	2.23	80.0	± 9.6 %
		Y	1.88	65.62	13.74		80.0	
		Z	0.90	60.00	8.17		80.0	
10483-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.96	67.65	14.40	2.23	80.0	± 9.6 %
		Y	2.48	65.87	13.25		80.0	
		Z	1.07	60.00	7.17		80.0	
10484-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.92	67.24	14.24	2.23	80.0	± 9.6 %
		Y	2.44	65.44	13.06		80.0	
		Z	1.10	60.00	7.13		80.0	
10485-AAA	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.80	70.08	16.83	2.23	80.0	± 9.6 %
		Y	2.24	67.40	15.52		80.0	
		Z	1.77	66.90	13.65		80.0	
10486-AAA	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.89	67.33	15.27	2.23	80.0	± 9.6 %
		Y	2.44	65.48	14.13		80.0	
		Z	1.32	60.61	9.25		80.0	
10487-AAA	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.92	67.10	15.16	2.23	80.0	± 9.6 %
		Y	2.48	65.30	14.03		80.0	
		Z	1.31	60.31	9.03		80.0	
10488-AAA	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.24	70.22	17.48	2.23	80.0	± 9.6 %
		Y	2.72	68.01	16.53		80.0	
		Z	2.61	70.55	17.52		80.0	
10489-AAA	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.28	67.53	16.45	2.23	80.0	± 9.6 %
		Y	2.93	66.18	15.74		80.0	
		Z	2.66	67.47	15.53		80.0	
10490-AAA	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.39	67.45	16.44	2.23	80.0	± 9.6 %
		Y	3.03	66.17	15.76		80.0	
		Z	2.69	67.15	15.34		80.0	
10491-AAA	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.56	69.35	17.25	2.23	80.0	± 9.6 %
		Y	3.11	67.62	16.53		80.0	
		Z	2.89	69.38	17.55		80.0	
10492-AAA	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.68	67.20	16.60	2.23	80.0	± 9.6 %
		Y	3.36	66.07	16.05		80.0	
		Z	3.08	67.28	16.33		80.0	

10493-AAA	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.76	67.13	16.59	2.23	80.0	± 9.6 %
		Y	3.44	66.04	16.05		80.0	
		Z	3.11	67.11	16.21		80.0	
10494-AAA	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.80	70.59	17.59	2.23	80.0	± 9.6 %
		Y	3.25	68.59	16.80		80.0	
		Z	3.06	70.37	18.06		80.0	
10495-AAA	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.71	67.57	16.77	2.23	80.0	± 9.6 %
		Y	3.37	66.34	16.20		80.0	
		Z	3.12	67.49	16.71		80.0	
10496-AAA	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.80	67.37	16.73	2.23	80.0	± 9.6 %
		Y	3.47	66.23	16.19		80.0	
		Z	3.20	67.34	16.65		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.86	65.28	13.05	2.23	80.0	± 9.6 %
		Y	1.41	62.47	11.20		80.0	
		Z	0.88	60.00	6.23		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.70	61.84	10.41	2.23	80.0	± 9.6 %
		Y	1.36	60.00	8.86		80.0	
		Z	1.24	60.00	4.71		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.68	61.48	10.09	2.23	80.0	± 9.6 %
		Y	1.38	60.00	8.72		80.0	
		Z	1.34	60.00	4.49		80.0	
10500-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.95	69.91	17.02	2.23	80.0	± 9.6 %
		Y	2.42	67.55	15.90		80.0	
		Z	2.16	68.91	15.39		80.0	
10501-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.07	67.46	15.75	2.23	80.0	± 9.6 %
		Y	2.66	65.88	14.81		80.0	
		Z	1.83	63.51	11.73		80.0	
10502-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.13	67.38	15.67	2.23	80.0	± 9.6 %
		Y	2.72	65.84	14.74		80.0	
		Z	1.81	63.13	11.44		80.0	
10503-AAA	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.21	70.07	17.40	2.23	80.0	± 9.6 %
		Y	2.69	67.87	16.45		80.0	
		Z	2.57	70.35	17.41		80.0	
10504-AAA	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.27	67.46	16.41	2.23	80.0	± 9.6 %
		Y	2.91	66.11	15.70		80.0	
		Z	2.64	67.35	15.45		80.0	
10505-AAA	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.37	67.38	16.40	2.23	80.0	± 9.6 %
		Y	3.02	66.10	15.71		80.0	
		Z	2.67	67.04	15.27		80.0	
10506-AAA	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.77	70.47	17.53	2.23	80.0	± 9.6 %
		Y	3.23	68.48	16.74		80.0	
		Z	3.05	70.25	17.99		80.0	
10507-AAA	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.69	67.51	16.73	2.23	80.0	± 9.6 %
		Y	3.36	66.29	16.17		80.0	
		Z	3.11	67.43	16.67		80.0	

10508-AAA	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.79	67.31	16.69	2.23	80.0	± 9.6 %
		Y	3.46	66.17	16.16		80.0	
		Z	3.19	67.27	16.60		80.0	
10509-AAA	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.17	69.67	17.23	2.23	80.0	± 9.6 %
		Y	3.70	68.12	16.63		80.0	
		Z	3.46	69.29	17.73		80.0	
10510-AAA	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.21	67.50	16.84	2.23	80.0	± 9.6 %
		Y	3.88	66.42	16.36		80.0	
		Z	3.56	67.01	16.88		80.0	
10511-AAA	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.27	67.29	16.80	2.23	80.0	± 9.6 %
		Y	3.95	66.28	16.34		80.0	
		Z	3.64	66.93	16.85		80.0	
10512-AAA	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.28	70.91	17.58	2.23	80.0	± 9.6 %
		Y	3.71	69.02	16.86		80.0	
		Z	3.48	70.06	17.96		80.0	
10513-AAA	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.08	67.73	16.91	2.23	80.0	± 9.6 %
		Y	3.74	66.53	16.39		80.0	
		Z	3.47	67.00	16.94		80.0	
10514-AAA	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.12	67.37	16.82	2.23	80.0	± 9.6 %
		Y	3.80	66.27	16.34		80.0	
		Z	3.53	66.77	16.86		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	1.00	63.66	15.30	0.00	150.0	± 9.6 %
		Y	0.99	62.70	14.40		150.0	
		Z	1.03	64.39	15.53		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.78	75.12	20.02	0.00	150.0	± 9.6 %
		Y	0.56	67.50	15.79		150.0	
		Z	0.93	77.72	21.40		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.88	66.17	16.29	0.00	150.0	± 9.6 %
		Y	0.82	64.21	14.80		150.0	
		Z	0.90	66.89	16.63		150.0	
10518-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.63	66.79	16.37	0.00	150.0	± 9.6 %
		Y	4.54	66.58	16.18		150.0	
		Z	4.17	67.34	16.48		150.0	
10519-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.83	67.04	16.50	0.00	150.0	± 9.6 %
		Y	4.72	66.81	16.30		150.0	
		Z	4.28	67.45	16.54		150.0	
10520-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.68	67.02	16.43	0.00	150.0	± 9.6 %
		Y	4.57	66.76	16.22		150.0	
		Z	4.14	67.36	16.46		150.0	
10521-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.61	67.02	16.42	0.00	150.0	± 9.6 %
		Y	4.51	66.75	16.20		150.0	
		Z	4.07	67.23	16.39		150.0	
10522-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.67	67.07	16.48	0.00	150.0	± 9.6 %
		Y	4.57	66.85	16.29		150.0	
		Z	4.08	67.22	16.40		150.0	

10523-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.54	66.95	16.33	0.00	150.0	± 9.6 %
		Y	4.45	66.72	16.14		150.0	
		Z	4.08	67.55	16.53		150.0	
10524-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.61	67.00	16.45	0.00	150.0	± 9.6 %
		Y	4.51	66.77	16.26		150.0	
		Z	4.06	67.36	16.51		150.0	
10525-AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.59	66.04	16.04	0.00	150.0	± 9.6 %
		Y	4.50	65.82	15.85		150.0	
		Z	4.15	66.59	16.20		150.0	
10526-AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.77	66.43	16.19	0.00	150.0	± 9.6 %
		Y	4.66	66.17	15.99		150.0	
		Z	4.22	66.74	16.27		150.0	
10527-AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.69	66.40	16.14	0.00	150.0	± 9.6 %
		Y	4.58	66.13	15.93		150.0	
		Z	4.17	66.77	16.23		150.0	
10528-AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.71	66.41	16.17	0.00	150.0	± 9.6 %
		Y	4.60	66.15	15.96		150.0	
		Z	4.17	66.73	16.23		150.0	
10529-AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.71	66.41	16.17	0.00	150.0	± 9.6 %
		Y	4.60	66.15	15.96		150.0	
		Z	4.17	66.73	16.23		150.0	
10531-AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.71	66.55	16.19	0.00	150.0	± 9.6 %
		Y	4.59	66.24	15.97		150.0	
		Z	4.13	66.70	16.19		150.0	
10532-AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.56	66.40	16.13	0.00	150.0	± 9.6 %
		Y	4.45	66.08	15.90		150.0	
		Z	4.04	66.60	16.14		150.0	
10533-AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.72	66.45	16.15	0.00	150.0	± 9.6 %
		Y	4.61	66.20	15.95		150.0	
		Z	4.18	66.89	16.27		150.0	
10534-AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.23	66.52	16.21	0.00	150.0	± 9.6 %
		Y	5.15	66.27	16.05		150.0	
		Z	4.79	66.53	16.36		150.0	
10535-AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.30	66.68	16.28	0.00	150.0	± 9.6 %
		Y	5.22	66.47	16.14		150.0	
		Z	4.81	66.63	16.42		150.0	
10536-AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.17	66.65	16.25	0.00	150.0	± 9.6 %
		Y	5.08	66.40	16.08		150.0	
		Z	4.70	66.59	16.37		150.0	
10537-AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.23	66.62	16.23	0.00	150.0	± 9.6 %
		Y	5.14	66.37	16.07		150.0	
		Z	4.81	66.77	16.47		150.0	
10538-AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.33	66.66	16.29	0.00	150.0	± 9.6 %
		Y	5.23	66.39	16.12		150.0	
		Z	4.83	66.57	16.39		150.0	
10540-AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.25	66.65	16.30	0.00	150.0	± 9.6 %
		Y	5.17	66.42	16.15		150.0	
		Z	4.75	66.47	16.37		150.0	

10541-AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.22	66.52	16.23	0.00	150.0	± 9.6 %
		Y	5.14	66.27	16.07		150.0	
		Z	4.77	66.50	16.35		150.0	
10542-AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.38	66.59	16.28	0.00	150.0	± 9.6 %
		Y	5.29	66.35	16.12		150.0	
		Z	4.90	66.56	16.40		150.0	
10543-AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.46	66.61	16.31	0.00	150.0	± 9.6 %
		Y	5.37	66.39	16.16		150.0	
		Z	4.96	66.66	16.49		150.0	
10544-AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.53	66.62	16.19	0.00	150.0	± 9.6 %
		Y	5.47	66.39	16.05		150.0	
		Z	5.19	66.47	16.33		150.0	
10545-AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.73	67.05	16.35	0.00	150.0	± 9.6 %
		Y	5.67	66.84	16.22		150.0	
		Z	5.35	66.97	16.55		150.0	
10546-AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.61	66.88	16.28	0.00	150.0	± 9.6 %
		Y	5.53	66.59	16.11		150.0	
		Z	5.21	66.56	16.35		150.0	
10547-AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.69	66.93	16.30	0.00	150.0	± 9.6 %
		Y	5.60	66.64	16.13		150.0	
		Z	5.39	67.09	16.62		150.0	
10548-AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.98	67.97	16.79	0.00	150.0	± 9.6 %
		Y	5.87	67.62	16.59		150.0	
		Z	5.29	66.94	16.53		150.0	
10550-AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.63	66.85	16.28	0.00	150.0	± 9.6 %
		Y	5.56	66.64	16.15		150.0	
		Z	5.42	67.36	16.77		150.0	
10551-AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.64	66.91	16.27	0.00	150.0	± 9.6 %
		Y	5.56	66.65	16.12		150.0	
		Z	5.18	66.51	16.31		150.0	
10552-AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.55	66.69	16.17	0.00	150.0	± 9.6 %
		Y	5.48	66.45	16.02		150.0	
		Z	5.20	66.69	16.39		150.0	
10553-AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.64	66.74	16.22	0.00	150.0	± 9.6 %
		Y	5.55	66.48	16.07		150.0	
		Z	5.21	66.51	16.32		150.0	
10554-AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.93	66.99	16.28	0.00	150.0	± 9.6 %
		Y	5.88	66.76	16.14		150.0	
		Z	5.66	66.77	16.40		150.0	
10555-AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	6.07	67.30	16.41	0.00	150.0	± 9.6 %
		Y	6.01	67.08	16.28		150.0	
		Z	5.75	67.03	16.53		150.0	
10556-AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.09	67.34	16.42	0.00	150.0	± 9.6 %
		Y	6.03	67.12	16.30		150.0	
		Z	5.80	67.20	16.61		150.0	
10557-AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	6.06	67.27	16.41	0.00	150.0	± 9.6 %
		Y	5.99	67.01	16.26		150.0	
		Z	5.71	66.93	16.48		150.0	

10558-AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.11	67.44	16.51	0.00	150.0	± 9.6 %
		Y	6.04	67.17	16.35		150.0	
		Z	5.66	66.81	16.44		150.0	
10560-AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.11	67.28	16.46	0.00	150.0	± 9.6 %
		Y	6.03	67.01	16.31		150.0	
		Z	5.71	66.82	16.48		150.0	
10561-AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	6.02	67.24	16.49	0.00	150.0	± 9.6 %
		Y	5.96	67.00	16.34		150.0	
		Z	5.64	66.79	16.49		150.0	
10562-AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.17	67.69	16.71	0.00	150.0	± 9.6 %
		Y	6.07	67.35	16.52		150.0	
		Z	5.70	66.99	16.59		150.0	
10563-AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.51	68.28	16.95	0.00	150.0	± 9.6 %
		Y	6.24	67.48	16.55		150.0	
		Z	6.02	67.71	16.93		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.95	66.84	16.50	0.46	150.0	± 9.6 %
		Y	4.86	66.64	16.33		150.0	
		Z	4.48	67.28	16.60		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	5.19	67.30	16.82	0.46	150.0	± 9.6 %
		Y	5.09	67.09	16.65		150.0	
		Z	4.63	67.65	16.90		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	5.02	67.16	16.65	0.46	150.0	± 9.6 %
		Y	4.92	66.92	16.46		150.0	
		Z	4.48	67.42	16.70		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	5.05	67.53	16.98	0.46	150.0	± 9.6 %
		Y	4.95	67.29	16.81		150.0	
		Z	4.52	67.79	17.06		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.93	66.90	16.40	0.46	150.0	± 9.6 %
		Y	4.83	66.68	16.22		150.0	
		Z	4.32	66.93	16.29		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.99	67.57	17.00	0.46	150.0	± 9.6 %
		Y	4.90	67.37	16.86		150.0	
		Z	4.52	68.14	17.28		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	5.04	67.45	16.97	0.46	150.0	± 9.6 %
		Y	4.94	67.26	16.82		150.0	
		Z	4.48	67.81	17.11		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.17	64.35	15.65	0.46	130.0	± 9.6 %
		Y	1.12	63.15	14.74		130.0	
		Z	1.16	64.64	15.77		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.18	64.91	16.00	0.46	130.0	± 9.6 %
		Y	1.12	63.58	15.03		130.0	
		Z	1.17	65.20	16.15		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	2.11	86.49	23.73	0.46	130.0	± 9.6 %
		Y	0.93	72.47	18.07		130.0	
		Z	1.80	85.73	24.45		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.29	70.65	18.93	0.46	130.0	± 9.6 %
		Y	1.12	67.52	17.14		130.0	
		Z	1.24	70.64	19.17		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.70	66.52	16.45	0.46	130.0	± 9.6 %
		Y	4.63	66.33	16.28		130.0	
		Z	4.24	66.97	16.51		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.73	66.68	16.51	0.46	130.0	± 9.6 %
		Y	4.65	66.49	16.35		130.0	
		Z	4.28	67.25	16.65		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.95	66.99	16.69	0.46	130.0	± 9.6 %
		Y	4.85	66.79	16.53		130.0	
		Z	4.40	67.42	16.76		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.84	67.15	16.79	0.46	130.0	± 9.6 %
		Y	4.74	66.92	16.62		130.0	
		Z	4.32	67.56	16.89		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.61	66.47	16.12	0.46	130.0	± 9.6 %
		Y	4.50	66.19	15.91		130.0	
		Z	4.06	66.57	16.03		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.66	66.48	16.14	0.46	130.0	± 9.6 %
		Y	4.55	66.25	15.94		130.0	
		Z	4.05	66.48	15.95		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.74	67.18	16.72	0.46	130.0	± 9.6 %
		Y	4.64	66.94	16.54		130.0	
		Z	4.26	67.74	16.93		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.56	66.24	15.93	0.46	130.0	± 9.6 %
		Y	4.45	65.97	15.71		130.0	
		Z	3.97	66.34	15.81		130.0	
10583-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.70	66.52	16.45	0.46	130.0	± 9.6 %
		Y	4.63	66.33	16.28		130.0	
		Z	4.24	66.97	16.51		130.0	
10584-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.73	66.68	16.51	0.46	130.0	± 9.6 %
		Y	4.65	66.49	16.35		130.0	
		Z	4.28	67.25	16.65		130.0	
10585-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.95	66.99	16.69	0.46	130.0	± 9.6 %
		Y	4.85	66.79	16.53		130.0	
		Z	4.40	67.42	16.76		130.0	
10586-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.84	67.15	16.79	0.46	130.0	± 9.6 %
		Y	4.74	66.92	16.62		130.0	
		Z	4.32	67.56	16.89		130.0	
10587-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.61	66.47	16.12	0.46	130.0	± 9.6 %
		Y	4.50	66.19	15.91		130.0	
		Z	4.06	66.57	16.03		130.0	
10588-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.66	66.48	16.14	0.46	130.0	± 9.6 %
		Y	4.55	66.25	15.94		130.0	
		Z	4.05	66.48	15.95		130.0	
10589-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.74	67.18	16.72	0.46	130.0	± 9.6 %
		Y	4.64	66.94	16.54		130.0	
		Z	4.26	67.74	16.93		130.0	
10590-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.56	66.24	15.93	0.46	130.0	± 9.6 %
		Y	4.45	65.97	15.71		130.0	
		Z	3.97	66.34	15.81		130.0	

10591-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.86	66.58	16.55	0.46	130.0	± 9.6 %
		Y	4.78	66.41	16.40		130.0	
		Z	4.41	67.10	16.68		130.0	
10592-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	5.02	66.92	16.68	0.46	130.0	± 9.6 %
		Y	4.93	66.74	16.53		130.0	
		Z	4.48	67.30	16.78		130.0	
10593-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.94	66.85	16.57	0.46	130.0	± 9.6 %
		Y	4.85	66.63	16.40		130.0	
		Z	4.41	67.21	16.65		130.0	
10594-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	5.00	67.00	16.72	0.46	130.0	± 9.6 %
		Y	4.90	66.80	16.56		130.0	
		Z	4.45	67.34	16.80		130.0	
10595-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.96	66.96	16.61	0.46	130.0	± 9.6 %
		Y	4.87	66.75	16.45		130.0	
		Z	4.41	67.34	16.72		130.0	
10596-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.90	66.96	16.62	0.46	130.0	± 9.6 %
		Y	4.80	66.74	16.45		130.0	
		Z	4.33	67.20	16.66		130.0	
10597-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.85	66.87	16.51	0.46	130.0	± 9.6 %
		Y	4.75	66.63	16.33		130.0	
		Z	4.30	67.10	16.51		130.0	
10598-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.83	67.10	16.77	0.46	130.0	± 9.6 %
		Y	4.73	66.85	16.58		130.0	
		Z	4.33	67.43	16.84		130.0	
10599-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.53	67.15	16.75	0.46	130.0	± 9.6 %
		Y	5.47	67.02	16.66		130.0	
		Z	5.40	68.39	17.55		130.0	
10600-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.70	67.67	16.99	0.46	130.0	± 9.6 %
		Y	5.62	67.49	16.87		130.0	
		Z	5.25	67.93	17.29		130.0	
10601-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.57	67.36	16.85	0.46	130.0	± 9.6 %
		Y	5.49	67.18	16.73		130.0	
		Z	5.17	67.70	17.19		130.0	
10602-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.65	67.36	16.76	0.46	130.0	± 9.6 %
		Y	5.60	67.26	16.69		130.0	
		Z	5.22	67.64	17.08		130.0	
10603-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.74	67.69	17.06	0.46	130.0	± 9.6 %
		Y	5.67	67.53	16.96		130.0	
		Z	5.20	67.63	17.22		130.0	
10604-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.53	67.12	16.76	0.46	130.0	± 9.6 %
		Y	5.49	67.04	16.70		130.0	
		Z	5.18	67.49	17.11		130.0	
10605-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.65	67.46	16.93	0.46	130.0	± 9.6 %
		Y	5.60	67.36	16.86		130.0	
		Z	5.17	67.50	17.13		130.0	
10606-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.41	66.90	16.52	0.46	130.0	± 9.6 %
		Y	5.32	66.61	16.34		130.0	
		Z	5.16	67.62	17.04		130.0	

10607-AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.69	65.89	16.17	0.46	130.0	± 9.6 %
		Y	4.61	65.70	16.01		130.0	
		Z	4.26	66.48	16.35		130.0	
10608-AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.89	66.31	16.33	0.46	130.0	± 9.6 %
		Y	4.79	66.10	16.17		130.0	
		Z	4.35	66.68	16.46		130.0	
10609-AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.78	66.17	16.18	0.46	130.0	± 9.6 %
		Y	4.68	65.93	16.00		130.0	
		Z	4.26	66.55	16.29		130.0	
10610-AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.83	66.32	16.34	0.46	130.0	± 9.6 %
		Y	4.73	66.09	16.16		130.0	
		Z	4.30	66.69	16.45		130.0	
10611-AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.75	66.13	16.19	0.46	130.0	± 9.6 %
		Y	4.65	65.89	16.01		130.0	
		Z	4.22	66.47	16.28		130.0	
10612-AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.76	66.28	16.23	0.46	130.0	± 9.6 %
		Y	4.65	66.04	16.05		130.0	
		Z	4.16	66.45	16.25		130.0	
10613-AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.77	66.20	16.13	0.46	130.0	± 9.6 %
		Y	4.65	65.92	15.93		130.0	
		Z	4.18	66.33	16.11		130.0	
10614-AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.70	66.36	16.35	0.46	130.0	± 9.6 %
		Y	4.60	66.09	16.16		130.0	
		Z	4.18	66.62	16.41		130.0	
10615-AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.75	65.96	15.97	0.46	130.0	± 9.6 %
		Y	4.64	65.73	15.79		130.0	
		Z	4.20	66.34	16.05		130.0	
10616-AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.35	66.42	16.37	0.46	130.0	± 9.6 %
		Y	5.28	66.22	16.24		130.0	
		Z	4.92	66.50	16.57		130.0	
10617-AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.41	66.56	16.41	0.46	130.0	± 9.6 %
		Y	5.35	66.42	16.32		130.0	
		Z	4.94	66.59	16.60		130.0	
10618-AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.30	66.60	16.44	0.46	130.0	± 9.6 %
		Y	5.23	66.40	16.32		130.0	
		Z	4.85	66.60	16.62		130.0	
10619-AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.33	66.44	16.30	0.46	130.0	± 9.6 %
		Y	5.25	66.21	16.16		130.0	
		Z	4.93	66.68	16.60		130.0	
10620-AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.43	66.50	16.38	0.46	130.0	± 9.6 %
		Y	5.33	66.26	16.23		130.0	
		Z	4.92	66.41	16.49		130.0	
10621-AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.41	66.57	16.53	0.46	130.0	± 9.6 %
		Y	5.34	66.39	16.42		130.0	
		Z	4.95	66.56	16.70		130.0	
10622-AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.42	66.73	16.60	0.46	130.0	± 9.6 %
		Y	5.35	66.56	16.50		130.0	
		Z	4.93	66.62	16.73		130.0	

10623-AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.30	66.27	16.26	0.46	130.0	± 9.6 %
		Y	5.23	66.08	16.13		130.0	
		Z	4.87	66.33	16.43		130.0	
10624-AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.49	66.48	16.42	0.46	130.0	± 9.6 %
		Y	5.42	66.29	16.30		130.0	
		Z	5.02	66.49	16.58		130.0	
10625-AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.90	67.57	17.02	0.46	130.0	± 9.6 %
		Y	5.77	67.23	16.82		130.0	
		Z	5.18	66.95	16.89		130.0	
10626-AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.63	66.48	16.32	0.46	130.0	± 9.6 %
		Y	5.58	66.30	16.21		130.0	
		Z	5.31	66.43	16.53		130.0	
10627-AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.88	67.05	16.56	0.46	130.0	± 9.6 %
		Y	5.83	66.91	16.49		130.0	
		Z	5.53	67.10	16.86		130.0	
10628-AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.68	66.62	16.29	0.46	130.0	± 9.6 %
		Y	5.61	66.38	16.15		130.0	
		Z	5.29	66.37	16.41		130.0	
10629-AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.77	66.71	16.32	0.46	130.0	± 9.6 %
		Y	5.68	66.43	16.17		130.0	
		Z	5.55	67.15	16.81		130.0	
10630-AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.28	68.40	17.17	0.46	130.0	± 9.6 %
		Y	6.15	68.02	16.97		130.0	
		Z	5.44	66.97	16.72		130.0	
10631-AAA	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.14	68.08	17.20	0.46	130.0	± 9.6 %
		Y	6.01	67.70	17.00		130.0	
		Z	5.52	67.35	17.10		130.0	
10632-AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.84	67.09	16.72	0.46	130.0	± 9.6 %
		Y	5.80	66.96	16.65		130.0	
		Z	5.74	68.01	17.44		130.0	
10633-AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.75	66.78	16.39	0.46	130.0	± 9.6 %
		Y	5.66	66.52	16.25		130.0	
		Z	5.32	66.53	16.53		130.0	
10634-AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.73	66.80	16.46	0.46	130.0	± 9.6 %
		Y	5.65	66.55	16.33		130.0	
		Z	5.38	66.83	16.73		130.0	
10635-AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.62	66.17	15.89	0.46	130.0	± 9.6 %
		Y	5.53	65.89	15.73		130.0	
		Z	5.18	65.89	15.97		130.0	
10636-AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.04	66.87	16.42	0.46	130.0	± 9.6 %
		Y	6.00	66.68	16.31		130.0	
		Z	5.80	66.76	16.62		130.0	
10637-AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.21	67.25	16.59	0.46	130.0	± 9.6 %
		Y	6.17	67.09	16.50		130.0	
		Z	5.94	67.18	16.84		130.0	
10638-AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.20	67.23	16.55	0.46	130.0	± 9.6 %
		Y	6.16	67.05	16.46		130.0	
		Z	5.98	67.31	16.88		130.0	

10639-AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.19	67.20	16.59	0.46	130.0	± 9.6 %
		Y	6.13	66.98	16.47		130.0	
		Z	5.86	66.94	16.73		130.0	
10640-AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.21	67.25	16.56	0.46	130.0	± 9.6 %
		Y	6.13	66.99	16.41		130.0	
		Z	5.76	66.65	16.52		130.0	
10641-AAA	IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.23	67.07	16.48	0.46	130.0	± 9.6 %
		Y	6.19	66.93	16.41		130.0	
		Z	5.92	66.95	16.70		130.0	
10642-AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.28	67.36	16.79	0.46	130.0	± 9.6 %
		Y	6.22	67.14	16.68		130.0	
		Z	5.90	66.99	16.88		130.0	
10643-AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.11	67.04	16.54	0.46	130.0	± 9.6 %
		Y	6.06	66.85	16.43		130.0	
		Z	5.74	66.66	16.60		130.0	
10644-AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.31	67.65	16.87	0.46	130.0	± 9.6 %
		Y	6.21	67.29	16.67		130.0	
		Z	5.83	66.94	16.76		130.0	
10645-AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.78	68.59	17.28	0.46	130.0	± 9.6 %
		Y	6.47	67.69	16.83		130.0	
		Z	6.16	67.68	17.11		130.0	
10646-AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	15.43	101.95	33.58	9.30	60.0	± 9.6 %
		Y	10.29	95.44	32.08		60.0	
		Z	4.66	83.40	29.88		60.0	
10647-AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	13.96	100.46	33.24	9.30	60.0	± 9.6 %
		Y	9.15	93.43	31.51		60.0	
		Z	4.18	81.18	29.09		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.81	65.18	12.30	0.00	150.0	± 9.6 %
		Y	0.69	63.02	10.51		150.0	
		Z	0.33	60.00	5.45		150.0	

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



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

Accreditation No.: **SCS 0108**

Client **PC Test**

Certificate No: **CLA6-1002_Oct16**

CALIBRATION CERTIFICATE

Object **CLA6 - SN: 1002**

Calibration procedure(s) **QA CAL-15.v8**
Calibration procedure for system validation sources below 700 MHz

Calibration date: **October 03, 2016**

BN✓
11/03/2016

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	06-Apr-16 (No. 217-02288/02289)	Apr-17
Power sensor NRP-Z91	SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17
Power sensor NRP-Z91	SN: 103245	06-Apr-16 (No. 217-02289)	Apr-17
Reference 20 dB Attenuator	SN: 5277 (20x)	05-Apr-16 (No. 217-02293)	Apr-17
Type-N mismatch combination	SN: 5047.2 / 06327	05-Apr-16 (No. 217-02295)	Apr-17
Reference Probe EX3DV4	SN: 3877	31-Dec-15 (No. EX3-3877_Dec15)	Dec-16
DAE4	SN: 654	04-Jul-16 (No. DAE4-654_Jul16)	Jul-17

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (No. 217-02285/02284)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (No. 217-02285)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (No. 217-02284)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-15)	In house check: Oct-16

Calibrated by: **Jeton Kastrati** Function: **Laboratory Technician**

Approved by: **Katja Pokovic** Technical Manager

Signature

Issued: October 4, 2016

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



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Measurement Conditions

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

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Phantom	Shell thickness: 2 ± 0.2 mm
EUT Positioning	Touch Position	
Zoom Scan Resolution	$dx, dy = 4.0$ mm, $dz = 1.4$ mm	Graded Ratio = 1.4 (Z direction)
Frequency	$6 \text{ MHz} \pm 1 \text{ MHz}$	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	$22.0 \text{ }^{\circ}\text{C}$	55.5	0.75 mho/m
Measured Head TSL parameters	$(22.0 \pm 0.2) \text{ }^{\circ}\text{C}$	$53.2 \pm 6 \%$	$0.72 \text{ mho/m} \pm 6 \%$
Head TSL temperature change during test	$< 0.5 \text{ }^{\circ}\text{C}$	----	----

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	1 W input power	0.176 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	$0.180 \text{ W/kg} \pm 18.4 \%$ (k=2)

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	1 W input power	0.110 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	$0.113 \text{ W/kg} \pm 18.0 \%$ (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$46.1 \Omega + 1.8 j\Omega$
Return Loss	- 26.9 dB

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	December 02, 2015

DASY5 Validation Report for Head TSL

Date: 03.10.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: CLA6; Type: CLA6; Serial: CLA6 - SN: 1002

Communication System: UID 0 - CW; Frequency: 6 MHz

Medium parameters used: $f = 6$ MHz; $\sigma = 0.72$ S/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY52 Configuration:

- Probe: EX3DV4 - SN3877; ConvF(17.79, 17.79, 17.79); Calibrated: 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 12.08.2016
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1003
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Configuration/CLA-6, touch cnfiguration, Pin=1W/Area Scan (81x81x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.260 W/kg

Configuration/CLA-6, touch cnfiguration, Pin=1W/Zoom Scan, dist=1.4mm (8x9x7)/Cube 0:

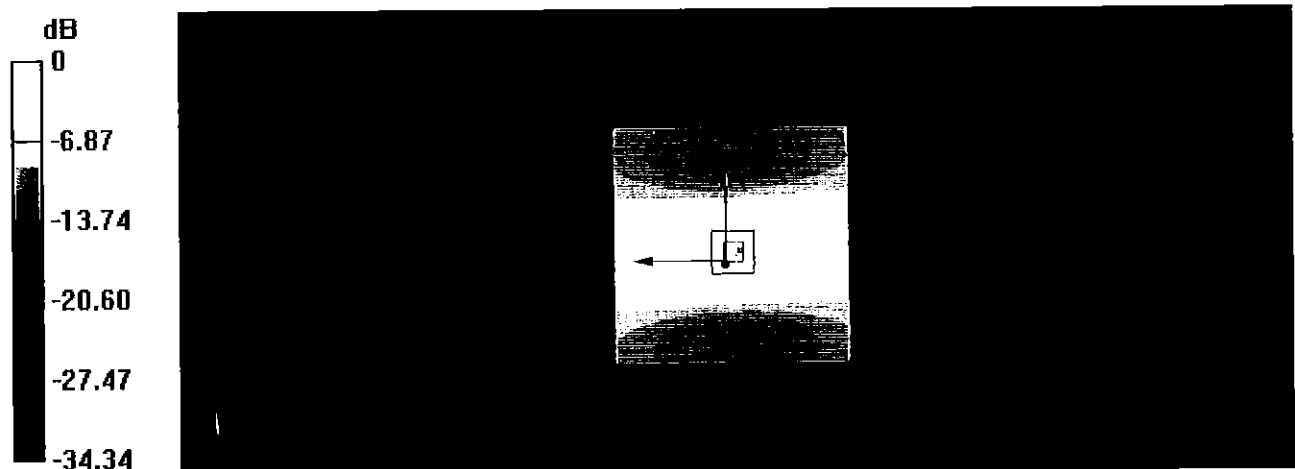
Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 19.01 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.347 W/kg

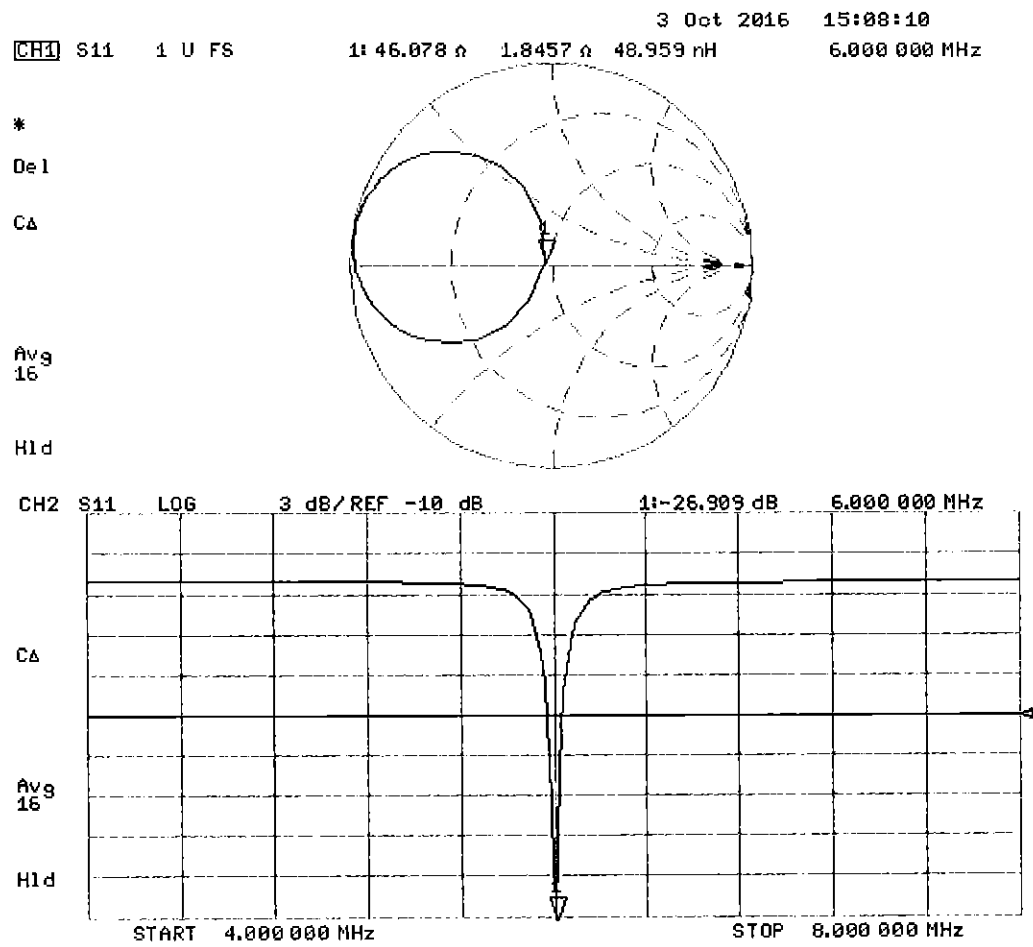
SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.110 W/kg

Maximum value of SAR (measured) = 0.256 W/kg



0 dB = 0.260 W/kg = -5.85 dBW/kg

Impedance Measurement Plot for Head TSL



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):

$$Y = \frac{j2\omega\epsilon_r\epsilon_0}{[\ln(b/a)]^2} \int_a^b \int_a^b \int_0^\pi \cos\phi' \frac{\exp[-j\omega r(\mu_0\epsilon_r'\epsilon_0)^{1/2}]}{r} d\phi' d\rho' d\rho$$

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 $j = \sqrt{-1}$.

Table D-I
Composition of the Tissue Equivalent Matter

Frequency (MHz)	6 MHz
Tissue	
Ingredients (% by weight)	
Bactericide	See Page 2
DGBE	
HEC	
NaCl	
Sucrose	
Polysorbate (Tween) 80	
Water	

FCC ID: JNZPR0001	 SAR EVALUATION REPORT 	Approved by: Quality Manager
Test Dates: 03/13/2017	DUT Type: Mouse Pad	APPENDIX D: Page 1 of 2

Measurement Certificate / Material Test

Item Name	Head Tissue Simulating Liquid (HBBL30-250V3)
Product No.	SL AAH 005 AD (Batch: 141125-1)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation

Validation results were within $\pm 2.5\%$ towards the target values of Methanol.

Target Parameters

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

Test Condition

Ambient	Environment temperatur (22 ± 3)°C and humidity < 70%.
TSL Temperature	22°C
Test Date	14-Apr-16
Operator	WM

Additional Information

TSL Density	1.042 g/cm ³
TSL Heat-capacity	3.574 kJ/(kg*K)

f (MHz)	Measured			Target		Diff to Target (%)	
	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
20	54.4	663.46	0.74	55.2	0.75	-1.5	-1.1
25	54.1	530.83	0.74	55.1	0.75	-1.8	-1.1
30	54.1	442.69	0.74	55.0	0.75	-1.6	-1.2
35	54.0	380.50	0.74	54.9	0.75	-1.6	-1.3
40	54.3	333.21	0.74	54.8	0.75	-0.9	-1.3
45	54.0	296.76	0.74	54.7	0.75	-1.2	-1.4
50	53.9	267.29	0.74	54.6	0.75	-1.2	-1.4
55	53.9	243.63	0.75	54.4	0.75	-1.0	-0.1
60	53.5	223.41	0.75	54.3	0.75	-1.5	-0.2
65	53.4	208.42	0.75	54.2	0.75	-1.5	-0.3
70	53.2	191.91	0.75	54.1	0.75	-1.7	-0.3
75	53.0	179.54	0.75	54.0	0.75	-1.6	-0.4
80	53.1	168.58	0.75	53.9	0.75	-1.4	-0.4
85	52.9	159.16	0.75	53.8	0.75	-1.6	-0.5
90	52.8	150.53	0.75	53.7	0.75	-1.6	-0.5
95	52.6	142.85	0.75	53.5	0.75	-1.8	-0.6
100	52.6	136.08	0.76	53.4	0.75	-1.6	0.7
105	52.6	129.84	0.76	53.3	0.76	-1.3	0.6
110	52.4	124.22	0.76	53.2	0.76	-1.5	0.6
115	52.4	119.11	0.76	53.1	0.76	-1.3	0.5
120	52.2	114.42	0.76	53.0	0.76	-1.5	0.5
125	52.1	110.08	0.77	52.9	0.76	-1.4	1.7
130	52.0	106.10	0.77	52.8	0.76	-1.4	1.7
135	51.9	102.44	0.77	52.6	0.76	-1.4	1.6
140	51.9	99.02	0.77	52.5	0.76	-1.2	1.6
145	51.7	95.89	0.77	52.4	0.76	-1.4	1.5
150	51.7	92.91	0.78	52.3	0.76	-1.1	2.8
155	51.6	90.14	0.78	52.1	0.76	-0.9	2.3
160	51.5	87.54	0.78	51.8	0.77	-0.6	1.8
165	51.4	85.10	0.78	51.6	0.77	-0.4	1.3
170	51.3	82.78	0.78	51.4	0.77	-0.1	0.8
175	51.2	80.67	0.79	51.1	0.78	0.1	1.6
180	51.1	78.63	0.79	50.9	0.78	0.4	1.2
185	51.0	76.69	0.79	50.7	0.78	0.7	0.7
190	51.0	74.91	0.79	50.4	0.79	1.1	0.2
195	50.9	73.18	0.79	50.2	0.79	1.4	-0.2
200	50.8	71.54	0.80	50.0	0.80	1.7	0.6
205	50.7	69.96	0.80	49.7	0.80	2.0	0.1
210	50.6	68.49	0.80	49.5	0.80	2.2	-0.4
215	50.5	67.08	0.80	49.3	0.81	2.5	-0.8
220	50.4	65.74	0.80	49.0	0.81	2.8	-1.3
225	50.3	64.45	0.81	48.8	0.81	3.1	-0.5
230	50.3	63.25	0.81	48.6	0.82	3.6	-0.9
235	50.2	62.07	0.81	48.3	0.82	3.9	-1.4
240	50.1	60.96	0.81	48.1	0.82	4.2	-1.8
245	50.0	59.88	0.82	47.9	0.83	4.4	-1.0
250	49.9	58.87	0.82	47.6	0.83	4.8	-1.5

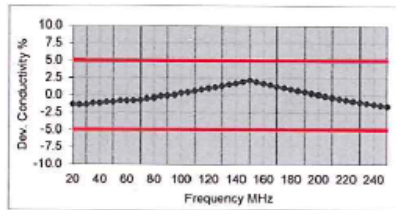
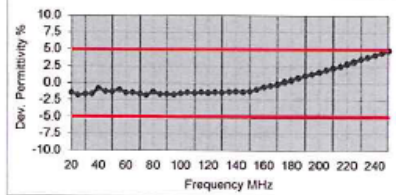


Figure D-1
6 MHz Tissue Equivalent Matter

FCC ID: JNZPR0001		SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 03/13/2017	DUT Type: Mouse Pad			APPENDIX D: Page 2 of 2