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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, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 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 E^2 -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 ES3DV3

SN:3118

Manufactured:	March 6, 2006
Repaired:	July 11, 2018
Calibrated:	July 18, 2018

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

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3118

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	1.25	1.28	1.35	$\pm 10.1 \%$
DCP (mV) ^B	106.5	102.1	105.4	

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	214.4	$\pm 3.5 \%$
		Y	0.0	0.0	1.0		213.7	
		Z	0.0	0.0	1.0		219.9	

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	57.35	411.4	35.46	28.17	4.000	5.10	0.405	0.631	1.020
Y	62.76	453.5	35.70	29.82	3.438	5.10	0.472	0.641	1.012
Z	65.07	463.6	34.92	48.38	4.200	5.10	0.811	0.642	1.014

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: ES3DV3 - SN:3118

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 (mm) ^G	Unc (k=2)
750	41.9	0.89	6.29	6.29	6.29	0.65	1.32	± 12.0 %
835	41.5	0.90	6.02	6.02	6.02	0.65	1.30	± 12.0 %
1750	40.1	1.37	5.09	5.09	5.09	0.63	1.35	± 12.0 %
1900	40.0	1.40	4.92	4.92	4.92	0.80	1.19	± 12.0 %
2300	39.5	1.67	4.65	4.65	4.65	0.78	1.20	± 12.0 %
2450	39.2	1.80	4.36	4.36	4.36	0.70	1.32	± 12.0 %
2600	39.0	1.96	4.26	4.26	4.26	0.77	1.25	± 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.

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3118

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	6.02	6.02	6.02	0.69	1.28	± 12.0 %
835	55.2	0.97	5.89	5.89	5.89	0.67	1.24	± 12.0 %
1750	53.4	1.49	4.77	4.77	4.77	0.63	1.40	± 12.0 %
1900	53.3	1.52	4.56	4.56	4.56	0.43	1.81	± 12.0 %
2300	52.9	1.81	4.32	4.32	4.32	0.79	1.30	± 12.0 %
2450	52.7	1.95	4.19	4.19	4.19	0.80	1.11	± 12.0 %
2600	52.5	2.16	4.06	4.06	4.06	0.80	1.09	± 12.0 %

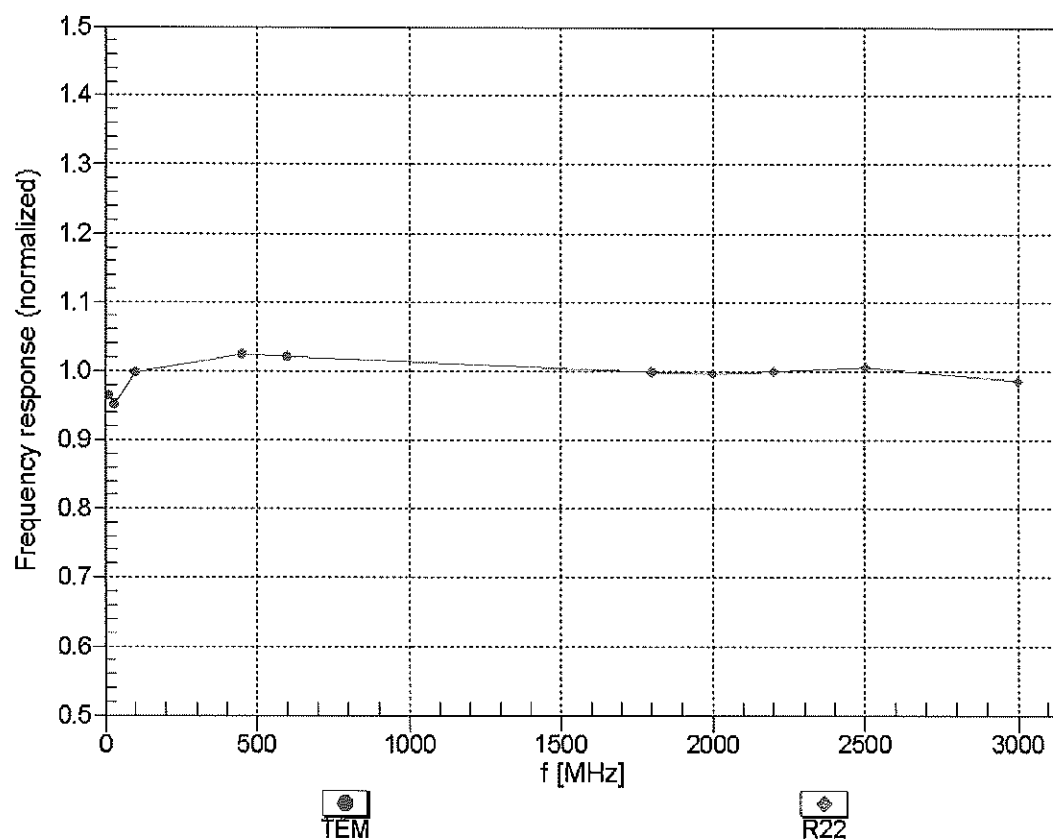
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 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

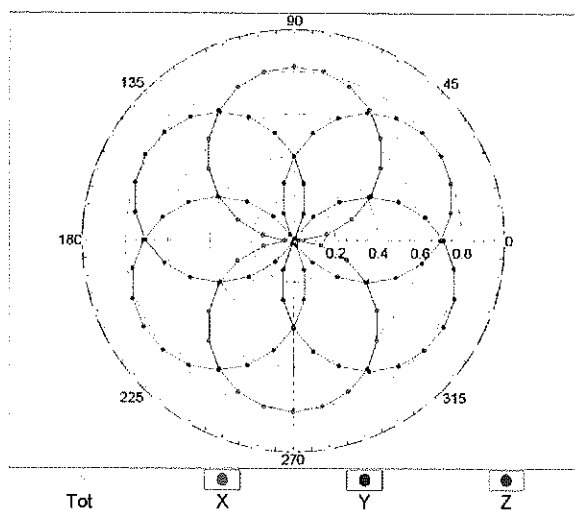
(TEM-Cell:ifi110 EXX, Waveguide: R22)



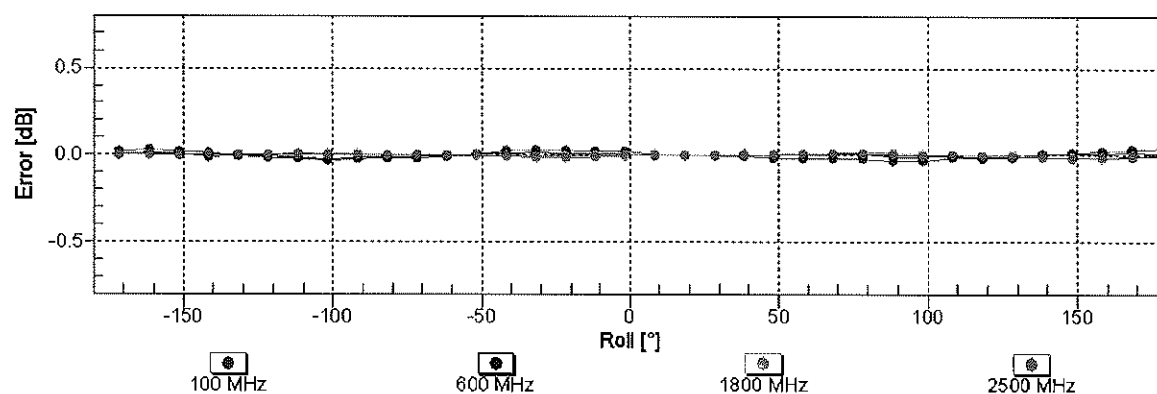
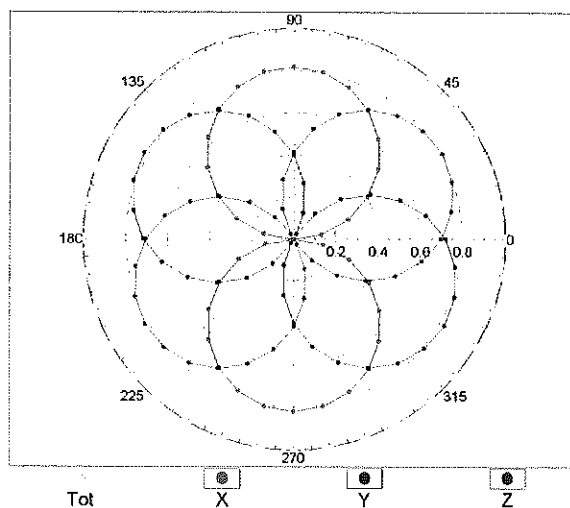
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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

f=600 MHz,TEM

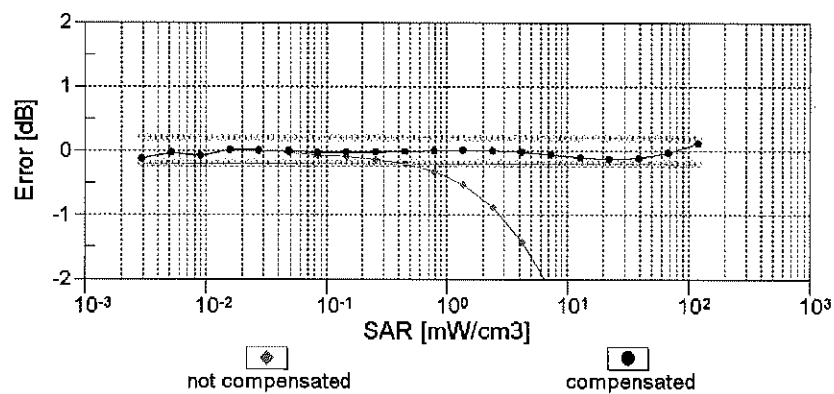
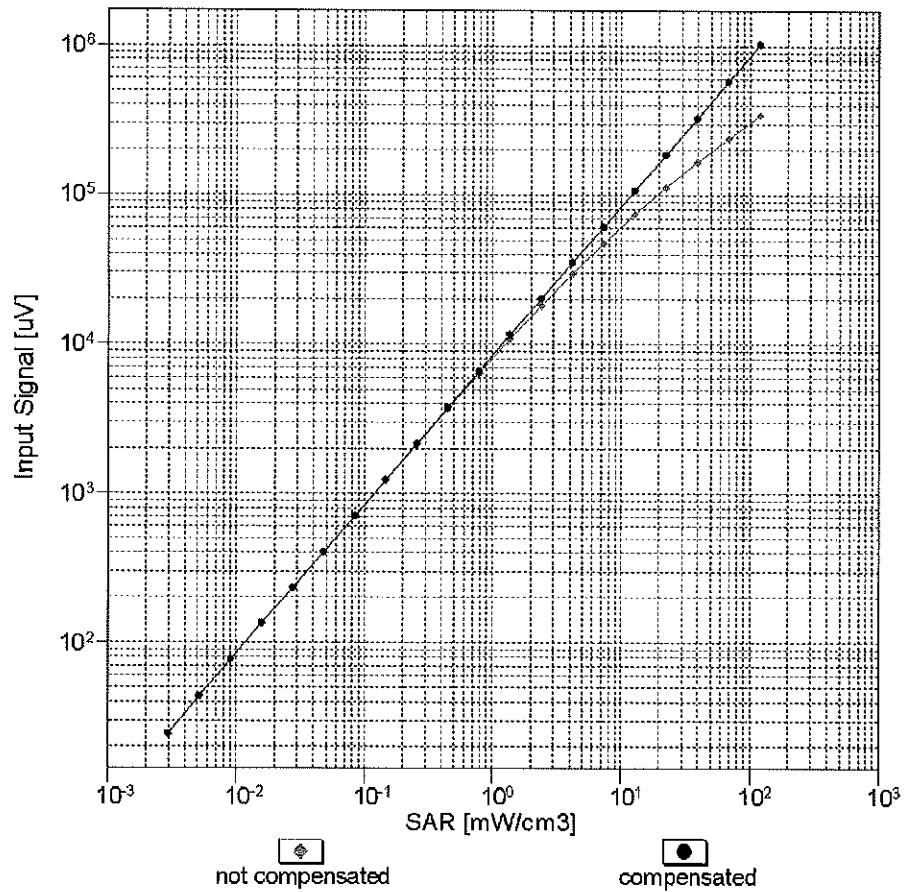


f=1800 MHz,R22



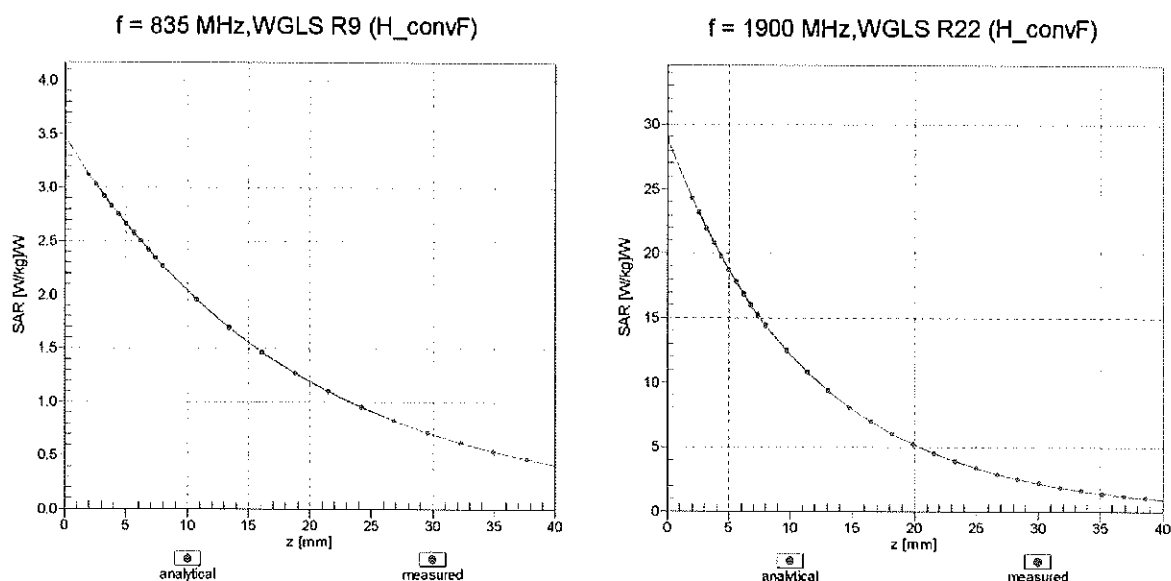
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f_{\text{eval}} = 1900 \text{ MHz}$)



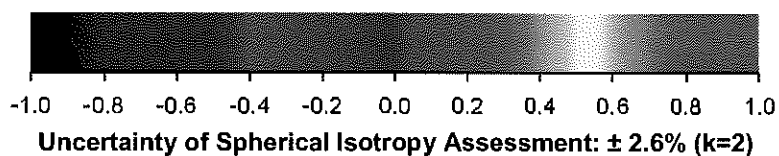
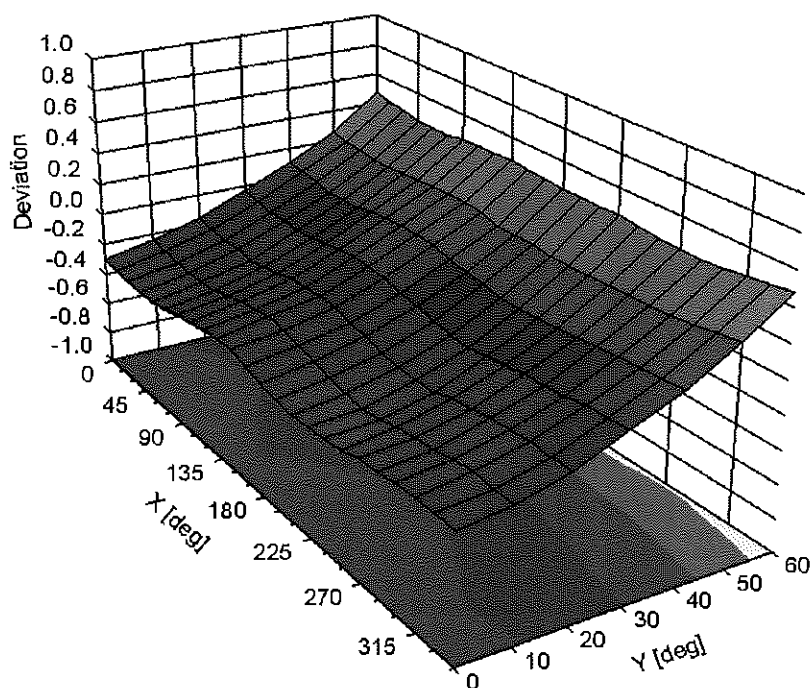
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3118

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	128.4
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB/μV	C	D dB	VR mV	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	214.4	± 3.5 %
		Y	0.00	0.00	1.00		213.7	
		Z	0.00	0.00	1.00		219.9	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	11.00	70.00	30.00	10.00	25.0	± 9.6 %
		Y	8.02	78.20	18.96		25.0	
		Z	9.08	78.15	19.39		25.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.11	70.39	16.37	0.00	150.0	± 9.6 %
		Y	0.93	65.18	13.55		150.0	
		Z	1.06	67.28	15.04		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.26	66.10	16.35	0.41	150.0	± 9.6 %
		Y	1.25	64.05	14.83		150.0	
		Z	1.39	65.65	15.86		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	5.10	67.46	17.53	1.46	150.0	± 9.6 %
		Y	5.16	67.03	17.22		150.0	
		Z	5.29	67.47	17.50		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	11.03	83.80	22.74	9.39	50.0	± 9.6 %
		Y	14.07	88.77	24.49		50.0	
		Z	11.52	82.99	22.70		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	10.67	83.06	22.51	9.57	50.0	± 9.6 %
		Y	13.28	87.63	24.15		50.0	
		Z	11.34	82.60	22.60		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	19.51	94.07	24.53	6.56	60.0	± 9.6 %
		Y	31.00	101.53	26.71		60.0	
		Z	13.75	87.16	22.66		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	15.95	97.55	36.48	12.57	50.0	± 9.6 %
		Y	15.42	97.42	36.57		50.0	
		Z	19.79	101.35	37.63		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	17.06	97.63	33.22	9.56	60.0	± 9.6 %
		Y	15.84	96.12	32.75		60.0	
		Z	18.78	97.45	32.86		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	116.94	29.25	4.80	80.0	± 9.6 %
		Y	100.00	117.38	29.41		80.0	
		Z	24.01	96.20	24.42		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	116.05	27.92	3.55	100.0	± 9.6 %
		Y	100.00	116.57	28.16		100.0	
		Z	97.57	115.45	28.44		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	13.21	92.82	30.52	7.80	80.0	± 9.6 %
		Y	11.72	90.07	29.52		80.0	
		Z	15.11	93.24	30.33		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	37.21	103.11	26.19	5.30	70.0	± 9.6 %
		Y	52.47	108.32	27.57		70.0	
		Z	16.02	89.81	22.79		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	114.10	25.32	1.88	100.0	± 9.6 %
		Y	100.00	115.04	25.87		100.0	
		Z	100.00	115.70	26.87		100.0	

10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	112.88	23.56	1.17	100.0	± 9.6 %
		Y	100.00	115.28	24.85		100.0	
		Z	100.00	117.98	26.73		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	11.05	87.25	23.45	5.30	70.0	± 9.6 %
		Y	10.85	87.61	23.81		70.0	
		Z	11.26	85.87	23.16		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	7.79	86.71	21.57	1.88	100.0	± 9.6 %
		Y	4.48	78.80	19.13		100.0	
		Z	6.63	82.82	20.62		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	4.96	82.29	19.75	1.17	100.0	± 9.6 %
		Y	2.84	74.12	17.02		100.0	
		Z	4.44	79.12	19.05		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	12.24	89.06	24.11	5.30	70.0	± 9.6 %
		Y	12.13	89.61	24.54		70.0	
		Z	12.10	87.17	23.65		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	7.46	86.16	21.35	1.88	100.0	± 9.6 %
		Y	4.36	78.46	18.97		100.0	
		Z	6.49	82.56	20.49		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	5.25	83.33	20.20	1.17	100.0	± 9.6 %
		Y	2.89	74.58	17.28		100.0	
		Z	4.59	79.76	19.35		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	2.12	74.27	16.55	0.00	150.0	± 9.6 %
		Y	1.54	68.21	14.19		150.0	
		Z	1.84	70.82	15.81		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	13.17	86.72	22.20	7.78	50.0	± 9.6 %
		Y	19.13	93.08	24.27		50.0	
		Z	12.47	84.53	21.82		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.16	137.07	17.86	0.00	150.0	± 9.6 %
		Y	0.00	112.90	1.88		150.0	
		Z	0.00	103.17	1.16		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	9.32	77.55	22.25	13.80	25.0	± 9.6 %
		Y	10.29	80.55	23.42		25.0	
		Z	10.69	79.20	23.24		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	9.87	80.74	22.07	10.79	40.0	± 9.6 %
		Y	11.34	84.11	23.33		40.0	
		Z	10.99	81.31	22.58		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	10.24	81.67	22.53	9.03	50.0	± 9.6 %
		Y	11.00	83.74	23.46		50.0	
		Z	11.35	82.26	23.00		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	10.41	88.80	28.41	6.55	100.0	± 9.6 %
		Y	9.08	85.55	27.14		100.0	
		Z	12.37	89.86	28.43		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.51	68.88	17.62	0.61	110.0	± 9.6 %
		Y	1.40	65.92	15.74		110.0	
		Z	1.67	68.25	17.02		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	127.47	31.87	1.30	110.0	± 9.6 %
		Y	10.36	95.59	24.12		110.0	
		Z	34.74	110.57	28.15		110.0	

10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	15.01	101.16	27.95	2.04	110.0	± 9.6 %
		Y	5.87	85.36	22.95		110.0	
		Z	9.94	91.44	24.76		110.0	
10062-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.78	67.11	16.76	0.49	100.0	± 9.6 %
		Y	4.86	66.73	16.47		100.0	
		Z	4.95	67.06	16.69		100.0	
10063-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.84	67.29	16.91	0.72	100.0	± 9.6 %
		Y	4.90	66.90	16.61		100.0	
		Z	5.01	67.26	16.86		100.0	
10064-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.17	67.64	17.18	0.86	100.0	± 9.6 %
		Y	5.25	67.28	16.91		100.0	
		Z	5.36	67.64	17.14		100.0	
10065-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	5.09	67.73	17.38	1.21	100.0	± 9.6 %
		Y	5.16	67.33	17.08		100.0	
		Z	5.29	67.76	17.35		100.0	
10066-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.16	67.90	17.62	1.46	100.0	± 9.6 %
		Y	5.22	67.48	17.32		100.0	
		Z	5.38	67.97	17.61		100.0	
10067-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.50	68.13	18.12	2.04	100.0	± 9.6 %
		Y	5.56	67.68	17.80		100.0	
		Z	5.73	68.20	18.12		100.0	
10068-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.68	68.57	18.52	2.55	100.0	± 9.6 %
		Y	5.72	68.09	18.20		100.0	
		Z	5.93	68.74	18.58		100.0	
10069-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.76	68.55	18.73	2.67	100.0	± 9.6 %
		Y	5.80	68.03	18.38		100.0	
		Z	6.01	68.67	18.77		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.28	67.76	17.94	1.99	100.0	± 9.6 %
		Y	5.32	67.31	17.62		100.0	
		Z	5.48	67.83	17.94		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	5.37	68.41	18.29	2.30	100.0	± 9.6 %
		Y	5.39	67.89	17.95		100.0	
		Z	5.61	68.54	18.32		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.55	68.87	18.76	2.83	100.0	± 9.6 %
		Y	5.55	68.28	18.39		100.0	
		Z	5.81	69.07	18.83		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.63	69.03	19.05	3.30	100.0	± 9.6 %
		Y	5.60	68.40	18.67		100.0	
		Z	5.91	69.32	19.18		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.83	69.64	19.60	3.82	90.0	± 9.6 %
		Y	5.79	68.96	19.20		90.0	
		Z	6.17	70.10	19.81		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.87	69.51	19.76	4.15	90.0	± 9.6 %
		Y	5.80	68.78	19.33		90.0	
		Z	6.21	69.98	19.97		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.93	69.64	19.87	4.30	90.0	± 9.6 %
		Y	5.85	68.88	19.44		90.0	
		Z	6.27	70.12	20.10		90.0	

10081-CAB	CDMA2000 (1xRTT, RC3)	X	0.85	67.18	12.82	0.00	150.0	± 9.6 %
		Y	0.79	64.00	11.57		150.0	
		Z	0.93	66.06	13.17		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	2.34	64.03	9.17	4.77	80.0	± 9.6 %
		Y	2.32	64.18	9.27		80.0	
		Z	3.27	65.97	10.75		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	19.24	93.89	24.52	6.56	60.0	± 9.6 %
		Y	30.32	101.24	26.66		60.0	
		Z	13.63	87.03	22.65		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.82	68.54	16.07	0.00	150.0	± 9.6 %
		Y	1.72	66.03	14.64		150.0	
		Z	1.83	67.13	15.46		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.79	68.54	16.06	0.00	150.0	± 9.6 %
		Y	1.68	65.97	14.59		150.0	
		Z	1.79	67.10	15.42		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	16.96	97.45	33.16	9.56	60.0	± 9.6 %
		Y	15.78	95.99	32.70		60.0	
		Z	18.66	97.27	32.80		60.0	
10100-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.28	71.48	17.01	0.00	150.0	± 9.6 %
		Y	3.04	69.25	15.81		150.0	
		Z	3.25	70.45	16.52		150.0	
10101-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.28	68.12	16.14	0.00	150.0	± 9.6 %
		Y	3.26	67.14	15.49		150.0	
		Z	3.37	67.77	15.91		150.0	
10102-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.37	68.00	16.20	0.00	150.0	± 9.6 %
		Y	3.37	67.11	15.60		150.0	
		Z	3.47	67.67	15.98		150.0	
10103-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	8.24	76.95	20.63	3.98	65.0	± 9.6 %
		Y	8.28	76.79	20.55		65.0	
		Z	9.07	76.94	20.46		65.0	
10104-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	8.50	76.43	21.31	3.98	65.0	± 9.6 %
		Y	8.43	75.92	21.04		65.0	
		Z	9.45	76.80	21.28		65.0	
10105-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	7.77	74.62	20.79	3.98	65.0	± 9.6 %
		Y	7.63	73.96	20.46		65.0	
		Z	8.39	74.49	20.53		65.0	
10108-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.87	70.73	16.88	0.00	150.0	± 9.6 %
		Y	2.69	68.49	15.63		150.0	
		Z	2.88	69.64	16.34		150.0	
10109-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.94	67.97	16.07	0.00	150.0	± 9.6 %
		Y	2.93	66.85	15.35		150.0	
		Z	3.04	67.51	15.81		150.0	
10110-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.34	69.94	16.60	0.00	150.0	± 9.6 %
		Y	2.20	67.49	15.23		150.0	
		Z	2.36	68.67	16.01		150.0	
10111-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.64	68.66	16.35	0.00	150.0	± 9.6 %
		Y	2.59	67.11	15.45		150.0	
		Z	2.71	67.81	15.98		150.0	

10112-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.06	67.87	16.09	0.00	150.0	± 9.6 %
		Y	3.05	66.84	15.43		150.0	
		Z	3.16	67.43	15.85		150.0	
10113-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.79	68.71	16.44	0.00	150.0	± 9.6 %
		Y	2.75	67.25	15.61		150.0	
		Z	2.87	67.89	16.09		150.0	
10114-CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.12	67.36	16.49	0.00	150.0	± 9.6 %
		Y	5.19	67.04	16.21		150.0	
		Z	5.24	67.28	16.38		150.0	
10115-CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.49	67.71	16.68	0.00	150.0	± 9.6 %
		Y	5.57	67.39	16.40		150.0	
		Z	5.62	67.61	16.55		150.0	
10116-CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.25	67.64	16.55	0.00	150.0	± 9.6 %
		Y	5.32	67.32	16.27		150.0	
		Z	5.37	67.54	16.43		150.0	
10117-CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.11	67.33	16.50	0.00	150.0	± 9.6 %
		Y	5.20	67.07	16.25		150.0	
		Z	5.25	67.31	16.42		150.0	
10118-CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.57	67.91	16.79	0.00	150.0	± 9.6 %
		Y	5.63	67.54	16.48		150.0	
		Z	5.68	67.71	16.62		150.0	
10119-CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.22	67.59	16.54	0.00	150.0	± 9.6 %
		Y	5.30	67.28	16.27		150.0	
		Z	5.35	67.50	16.43		150.0	
10140-CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.42	68.00	16.12	0.00	150.0	± 9.6 %
		Y	3.42	67.12	15.53		150.0	
		Z	3.52	67.69	15.92		150.0	
10141-CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.53	68.03	16.26	0.00	150.0	± 9.6 %
		Y	3.54	67.20	15.70		150.0	
		Z	3.64	67.72	16.05		150.0	
10142-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.11	69.97	16.35	0.00	150.0	± 9.6 %
		Y	1.97	67.19	14.89		150.0	
		Z	2.13	68.48	15.77		150.0	
10143-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.52	69.41	16.14	0.00	150.0	± 9.6 %
		Y	2.42	67.42	15.15		150.0	
		Z	2.56	68.28	15.80		150.0	
10144-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.31	67.27	14.64	0.00	150.0	± 9.6 %
		Y	2.30	65.92	13.98		150.0	
		Z	2.43	66.75	14.64		150.0	
10145-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.31	66.42	12.63	0.00	150.0	± 9.6 %
		Y	1.32	64.89	12.23		150.0	
		Z	1.49	66.57	13.51		150.0	
10146-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	7.58	85.21	20.62	0.00	150.0	± 9.6 %
		Y	2.87	70.38	14.78		150.0	
		Z	3.94	74.85	17.14		150.0	
10147-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	16.16	96.06	24.16	0.00	150.0	± 9.6 %
		Y	3.45	72.99	16.09		150.0	
		Z	4.91	78.13	18.60		150.0	

10149-CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.95	68.03	16.12	0.00	150.0	± 9.6 %
		Y	2.94	66.90	15.39		150.0	
		Z	3.05	67.55	15.85		150.0	
10150-CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.06	67.92	16.13	0.00	150.0	± 9.6 %
		Y	3.06	66.88	15.46		150.0	
		Z	3.16	67.47	15.88		150.0	
10151-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	8.81	79.32	21.66	3.98	65.0	± 9.6 %
		Y	8.55	78.44	21.29		65.0	
		Z	9.44	78.63	21.22		65.0	
10152-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	8.14	76.62	21.15	3.98	65.0	± 9.6 %
		Y	8.02	75.98	20.86		65.0	
		Z	9.11	76.96	21.15		65.0	
10153-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	8.47	77.28	21.74	3.98	65.0	± 9.6 %
		Y	8.36	76.67	21.47		65.0	
		Z	9.42	77.52	21.68		65.0	
10154-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.40	70.40	16.88	0.00	150.0	± 9.6 %
		Y	2.24	67.85	15.47		150.0	
		Z	2.41	69.05	16.25		150.0	
10155-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.64	68.67	16.36	0.00	150.0	± 9.6 %
		Y	2.60	67.11	15.46		150.0	
		Z	2.71	67.81	15.98		150.0	
10156-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.98	70.26	16.26	0.00	150.0	± 9.6 %
		Y	1.81	67.15	14.70		150.0	
		Z	1.99	68.60	15.69		150.0	
10157-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.16	67.94	14.74	0.00	150.0	± 9.6 %
		Y	2.11	66.22	13.95		150.0	
		Z	2.26	67.22	14.72		150.0	
10158-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.80	68.76	16.49	0.00	150.0	± 9.6 %
		Y	2.76	67.29	15.64		150.0	
		Z	2.87	67.92	16.12		150.0	
10159-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.27	68.36	15.01	0.00	150.0	± 9.6 %
		Y	2.21	66.59	14.22		150.0	
		Z	2.36	67.58	14.97		150.0	
10160-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.83	69.56	16.63	0.00	150.0	± 9.6 %
		Y	2.73	67.74	15.58		150.0	
		Z	2.86	68.57	16.14		150.0	
10161-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.96	67.83	16.07	0.00	150.0	± 9.6 %
		Y	2.95	66.75	15.39		150.0	
		Z	3.05	67.34	15.82		150.0	
10162-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.06	67.91	16.15	0.00	150.0	± 9.6 %
		Y	3.06	66.84	15.48		150.0	
		Z	3.16	67.39	15.89		150.0	
10166-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	4.13	72.26	20.86	3.01	150.0	± 9.6 %
		Y	3.94	69.95	19.24		150.0	
		Z	4.20	71.08	19.97		150.0	
10167-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	5.51	76.21	21.64	3.01	150.0	± 9.6 %
		Y	5.02	73.01	19.78		150.0	
		Z	5.56	74.72	20.71		150.0	

10168-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6.12	78.51	22.90	3.01	150.0	± 9.6 %
		Y	5.48	74.87	20.89		150.0	
		Z	6.03	76.47	21.73		150.0	
10169-CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.83	73.94	21.67	3.01	150.0	± 9.6 %
		Y	3.60	71.20	19.72		150.0	
		Z	4.08	73.45	20.95		150.0	
10170-CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	6.21	82.45	24.66	3.01	150.0	± 9.6 %
		Y	5.25	77.44	21.98		150.0	
		Z	6.35	80.69	23.42		150.0	
10171-AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	4.92	77.28	21.70	3.01	150.0	± 9.6 %
		Y	4.30	73.21	19.33		150.0	
		Z	5.18	76.28	20.83		150.0	
10172-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	39.82	115.64	35.66	6.02	65.0	± 9.6 %
		Y	20.52	100.96	30.84		65.0	
		Z	30.93	106.47	32.28		65.0	
10173-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	35.65	108.32	31.91	6.02	65.0	± 9.6 %
		Y	21.90	98.12	28.47		65.0	
		Z	25.07	98.55	28.50		65.0	
10174-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	28.42	102.80	29.80	6.02	65.0	± 9.6 %
		Y	18.16	93.76	26.68		65.0	
		Z	21.47	94.81	26.94		65.0	
10175-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.77	73.55	21.40	3.01	150.0	± 9.6 %
		Y	3.55	70.85	19.47		150.0	
		Z	4.02	73.10	20.70		150.0	
10176-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	6.22	82.48	24.67	3.01	150.0	± 9.6 %
		Y	5.26	77.46	21.99		150.0	
		Z	6.36	80.72	23.43		150.0	
10177-CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.81	73.74	21.50	3.01	150.0	± 9.6 %
		Y	3.58	71.02	19.57		150.0	
		Z	4.06	73.27	20.80		150.0	
10178-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	6.12	82.15	24.52	3.01	150.0	± 9.6 %
		Y	5.18	77.17	21.84		150.0	
		Z	6.26	80.41	23.28		150.0	
10179-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	5.52	79.76	23.05	3.01	150.0	± 9.6 %
		Y	4.72	75.13	20.50		150.0	
		Z	5.71	78.31	21.97		150.0	
10180-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	4.90	77.17	21.63	3.01	150.0	± 9.6 %
		Y	4.28	73.11	19.27		150.0	
		Z	5.15	76.18	20.77		150.0	
10181-CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.80	73.72	21.50	3.01	150.0	± 9.6 %
		Y	3.58	71.00	19.57		150.0	
		Z	4.05	73.25	20.79		150.0	
10182-CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	6.11	82.12	24.50	3.01	150.0	± 9.6 %
		Y	5.17	77.14	21.83		150.0	
		Z	6.25	80.38	23.27		150.0	
10183-AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	4.89	77.14	21.62	3.01	150.0	± 9.6 %
		Y	4.27	73.09	19.26		150.0	
		Z	5.14	76.15	20.76		150.0	

10184-CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.82	73.77	21.52	3.01	150.0	± 9.6 %
		Y	3.59	71.05	19.59		150.0	
		Z	4.07	73.29	20.81		150.0	
10185-CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	6.14	82.21	24.54	3.01	150.0	± 9.6 %
		Y	5.20	77.22	21.87		150.0	
		Z	6.28	80.46	23.31		150.0	
10186-AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	4.92	77.23	21.66	3.01	150.0	± 9.6 %
		Y	4.29	73.15	19.29		150.0	
		Z	5.17	76.22	20.79		150.0	
10187-CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.83	73.82	21.58	3.01	150.0	± 9.6 %
		Y	3.60	71.09	19.64		150.0	
		Z	4.08	73.34	20.86		150.0	
10188-CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	6.39	83.07	24.97	3.01	150.0	± 9.6 %
		Y	5.38	77.94	22.25		150.0	
		Z	6.51	81.20	23.68		150.0	
10189-AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	5.05	77.78	21.97	3.01	150.0	± 9.6 %
		Y	4.40	73.61	19.57		150.0	
		Z	5.30	76.71	21.06		150.0	
10193-CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.53	66.77	16.24	0.00	150.0	± 9.6 %
		Y	4.61	66.42	15.96		150.0	
		Z	4.68	66.67	16.16		150.0	
10194-CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.72	67.13	16.36	0.00	150.0	± 9.6 %
		Y	4.81	66.79	16.08		150.0	
		Z	4.88	67.05	16.27		150.0	
10195-CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.76	67.15	16.37	0.00	150.0	± 9.6 %
		Y	4.85	66.81	16.09		150.0	
		Z	4.92	67.06	16.28		150.0	
10196-CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.54	66.87	16.28	0.00	150.0	± 9.6 %
		Y	4.63	66.52	15.99		150.0	
		Z	4.70	66.78	16.20		150.0	
10197-CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.74	67.15	16.38	0.00	150.0	± 9.6 %
		Y	4.83	66.81	16.09		150.0	
		Z	4.89	67.07	16.28		150.0	
10198-CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.77	67.17	16.39	0.00	150.0	± 9.6 %
		Y	4.86	66.82	16.10		150.0	
		Z	4.92	67.08	16.29		150.0	
10219-CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.49	66.88	16.24	0.00	150.0	± 9.6 %
		Y	4.58	66.52	15.95		150.0	
		Z	4.65	66.79	16.16		150.0	
10220-CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.73	67.14	16.37	0.00	150.0	± 9.6 %
		Y	4.82	66.81	16.09		150.0	
		Z	4.89	67.07	16.28		150.0	
10221-CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.77	67.10	16.37	0.00	150.0	± 9.6 %
		Y	4.86	66.76	16.09		150.0	
		Z	4.93	67.01	16.28		150.0	
10222-CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.09	67.35	16.50	0.00	150.0	± 9.6 %
		Y	5.18	67.08	16.24		150.0	
		Z	5.23	67.33	16.42		150.0	

10223-CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.43	67.62	16.66	0.00	150.0	± 9.6 %
		Y	5.57	67.49	16.48		150.0	
		Z	5.62	67.70	16.63		150.0	
10224-CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.13	67.44	16.46	0.00	150.0	± 9.6 %
		Y	5.22	67.17	16.21		150.0	
		Z	5.28	67.43	16.39		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.81	66.43	15.56	0.00	150.0	± 9.6 %
		Y	2.84	65.60	15.03		150.0	
		Z	2.93	66.06	15.43		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	37.43	109.34	32.27	6.02	65.0	± 9.6 %
		Y	22.87	99.00	28.81		65.0	
		Z	25.83	99.17	28.75		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	29.82	103.85	30.21	6.02	65.0	± 9.6 %
		Y	19.49	95.07	27.16		65.0	
		Z	21.81	95.18	27.13		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	43.39	118.00	36.44	6.02	65.0	± 9.6 %
		Y	21.98	102.73	31.48		65.0	
		Z	30.47	106.65	32.44		65.0	
10229-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	35.61	108.29	31.90	6.02	65.0	± 9.6 %
		Y	21.95	98.14	28.48		65.0	
		Z	25.06	98.53	28.50		65.0	
10230-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	28.66	103.05	29.92	6.02	65.0	± 9.6 %
		Y	18.81	94.37	26.88		65.0	
		Z	21.27	94.68	26.91		65.0	
10231-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	41.14	116.81	36.05	6.02	65.0	± 9.6 %
		Y	21.10	101.84	31.14		65.0	
		Z	29.48	105.92	32.16		65.0	
10232-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	35.61	108.30	31.91	6.02	65.0	± 9.6 %
		Y	21.93	98.14	28.48		65.0	
		Z	25.05	98.53	28.50		65.0	
10233-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	28.70	103.09	29.93	6.02	65.0	± 9.6 %
		Y	18.81	94.38	26.88		65.0	
		Z	21.29	94.71	26.92		65.0	
10234-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	38.89	115.48	35.59	6.02	65.0	± 9.6 %
		Y	20.23	100.87	30.76		65.0	
		Z	28.40	105.06	31.83		65.0	
10235-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	35.74	108.38	31.93	6.02	65.0	± 9.6 %
		Y	21.97	98.18	28.49		65.0	
		Z	25.10	98.57	28.51		65.0	
10236-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	28.93	103.21	29.96	6.02	65.0	± 9.6 %
		Y	18.93	94.47	26.90		65.0	
		Z	21.39	94.77	26.94		65.0	
10237-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	41.69	117.10	36.13	6.02	65.0	± 9.6 %
		Y	21.22	101.98	31.18		65.0	
		Z	29.74	106.11	32.22		65.0	
10238-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	35.64	108.32	31.91	6.02	65.0	± 9.6 %
		Y	21.93	98.14	28.48		65.0	
		Z	25.06	98.54	28.50		65.0	

10239-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	28.72	103.12	29.94	6.02	65.0	± 9.6 %
		Y	18.80	94.39	26.88		65.0	
		Z	21.30	94.73	26.93		65.0	
10240-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	41.55	117.04	36.12	6.02	65.0	± 9.6 %
		Y	21.16	101.93	31.17		65.0	
		Z	29.67	106.07	32.20		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	13.47	88.35	28.23	6.98	65.0	± 9.6 %
		Y	12.12	85.29	26.84		65.0	
		Z	15.14	88.73	28.09		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	12.80	87.16	27.69	6.98	65.0	± 9.6 %
		Y	11.46	84.05	26.28		65.0	
		Z	14.86	88.30	27.87		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	10.67	85.23	27.90	6.98	65.0	± 9.6 %
		Y	9.52	81.87	26.27		65.0	
		Z	12.84	87.29	28.39		65.0	
10244-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	10.17	81.65	21.77	3.98	65.0	± 9.6 %
		Y	9.15	79.40	20.83		65.0	
		Z	10.51	80.19	21.18		65.0	
10245-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	9.99	81.10	21.52	3.98	65.0	± 9.6 %
		Y	9.07	79.04	20.64		65.0	
		Z	10.44	79.89	21.03		65.0	
10246-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	8.29	80.46	20.79	3.98	65.0	± 9.6 %
		Y	7.99	79.76	20.74		65.0	
		Z	9.03	79.95	20.79		65.0	
10247-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	7.39	76.55	19.86	3.98	65.0	± 9.6 %
		Y	7.34	76.26	19.92		65.0	
		Z	8.46	77.09	20.21		65.0	
10248-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	7.42	76.21	19.72	3.98	65.0	± 9.6 %
		Y	7.39	75.94	19.78		65.0	
		Z	8.53	76.86	20.12		65.0	
10249-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	9.23	82.41	22.16	3.98	65.0	± 9.6 %
		Y	8.68	81.14	21.80		65.0	
		Z	9.61	81.02	21.66		65.0	
10250-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	8.31	78.59	21.92	3.98	65.0	± 9.6 %
		Y	8.13	77.89	21.68		65.0	
		Z	9.23	78.60	21.82		65.0	
10251-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	7.99	76.88	20.98	3.98	65.0	± 9.6 %
		Y	7.84	76.19	20.74		65.0	
		Z	8.96	77.17	21.05		65.0	
10252-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	9.33	81.99	22.67	3.98	65.0	± 9.6 %
		Y	8.82	80.65	22.18		65.0	
		Z	9.75	80.63	22.01		65.0	
10253-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	7.95	76.10	20.96	3.98	65.0	± 9.6 %
		Y	7.84	75.48	20.69		65.0	
		Z	8.94	76.55	21.03		65.0	
10254-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	8.30	76.77	21.52	3.98	65.0	± 9.6 %
		Y	8.19	76.17	21.27		65.0	
		Z	9.27	77.13	21.54		65.0	

10255-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	8.60	79.11	21.80	3.98	65.0	± 9.6 %
		Y	8.32	78.17	21.41		65.0	
		Z	9.30	78.56	21.41		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	9.12	79.47	20.18	3.98	65.0	± 9.6 %
		Y	8.32	77.65	19.44		65.0	
		Z	9.76	78.72	19.99		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	8.87	78.68	19.79	3.98	65.0	± 9.6 %
		Y	8.22	77.11	19.15		65.0	
		Z	9.68	78.29	19.75		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	7.09	77.60	19.11	3.98	65.0	± 9.6 %
		Y	7.14	77.74	19.46		65.0	
		Z	8.35	78.43	19.76		65.0	
10259-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	7.76	77.30	20.60	3.98	65.0	± 9.6 %
		Y	7.66	76.82	20.53		65.0	
		Z	8.77	77.63	20.77		65.0	
10260-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	7.79	77.08	20.53	3.98	65.0	± 9.6 %
		Y	7.71	76.66	20.49		65.0	
		Z	8.83	77.48	20.75		65.0	
10261-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	9.00	81.77	22.23	3.98	65.0	± 9.6 %
		Y	8.49	80.50	21.83		65.0	
		Z	9.49	80.59	21.74		65.0	
10262-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	8.30	78.55	21.89	3.98	65.0	± 9.6 %
		Y	8.13	77.86	21.65		65.0	
		Z	9.23	78.58	21.79		65.0	
10263-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	7.98	76.87	20.98	3.98	65.0	± 9.6 %
		Y	7.84	76.19	20.74		65.0	
		Z	8.96	77.17	21.05		65.0	
10264-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	9.28	81.88	22.61	3.98	65.0	± 9.6 %
		Y	8.77	80.54	22.12		65.0	
		Z	9.71	80.55	21.97		65.0	
10265-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	8.13	76.62	21.15	3.98	65.0	± 9.6 %
		Y	8.01	75.99	20.86		65.0	
		Z	9.10	76.96	21.15		65.0	
10266-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	8.48	77.27	21.74	3.98	65.0	± 9.6 %
		Y	8.36	76.67	21.47		65.0	
		Z	9.43	77.52	21.68		65.0	
10267-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	8.80	79.29	21.65	3.98	65.0	± 9.6 %
		Y	8.54	78.42	21.28		65.0	
		Z	9.43	78.61	21.21		65.0	
10268-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	8.60	76.18	21.34	3.98	65.0	± 9.6 %
		Y	8.54	75.71	21.09		65.0	
		Z	9.55	76.60	21.34		65.0	
10269-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	8.54	75.83	21.27	3.98	65.0	± 9.6 %
		Y	8.49	75.37	21.03		65.0	
		Z	9.51	76.32	21.31		65.0	
10270-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	8.49	77.04	20.92	3.98	65.0	± 9.6 %
		Y	8.38	76.50	20.67		65.0	
		Z	9.28	76.95	20.71		65.0	

10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.56	66.78	15.44	0.00	150.0	± 9.6 %
		Y	2.56	65.64	14.75		150.0	
		Z	2.64	66.22	15.21		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.67	69.49	16.15	0.00	150.0	± 9.6 %
		Y	1.52	66.23	14.35		150.0	
		Z	1.66	67.72	15.39		150.0	
10277-CAA	PHS (QPSK)	X	6.13	69.98	14.75	9.03	50.0	± 9.6 %
		Y	6.06	70.29	14.88		50.0	
		Z	7.49	72.02	16.23		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	8.20	76.39	19.47	9.03	50.0	± 9.6 %
		Y	8.81	78.45	20.51		50.0	
		Z	9.83	78.53	20.80		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	8.33	76.57	19.55	9.03	50.0	± 9.6 %
		Y	8.96	78.64	20.59		50.0	
		Z	9.98	78.73	20.88		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	1.59	70.28	14.59	0.00	150.0	± 9.6 %
		Y	1.36	66.45	13.11		150.0	
		Z	1.59	68.62	14.57		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	0.83	66.85	12.64	0.00	150.0	± 9.6 %
		Y	0.78	63.84	11.47		150.0	
		Z	0.91	65.84	13.05		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	1.25	73.13	15.84	0.00	150.0	± 9.6 %
		Y	0.85	65.73	12.82		150.0	
		Z	1.05	68.75	14.86		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	2.64	83.78	20.37	0.00	150.0	± 9.6 %
		Y	1.03	68.28	14.52		150.0	
		Z	1.33	72.20	16.88		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	10.10	81.06	22.89	9.03	50.0	± 9.6 %
		Y	9.95	81.61	23.41		50.0	
		Z	11.11	81.96	23.60		50.0	
10297-AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.88	70.84	16.94	0.00	150.0	± 9.6 %
		Y	2.70	68.57	15.69		150.0	
		Z	2.89	69.72	16.39		150.0	
10298-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.69	69.16	14.85	0.00	150.0	± 9.6 %
		Y	1.57	66.33	13.62		150.0	
		Z	1.75	67.96	14.79		150.0	
10299-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	7.05	84.68	21.43	0.00	150.0	± 9.6 %
		Y	3.31	71.79	16.11		150.0	
		Z	4.22	75.39	18.01		150.0	
10300-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	3.57	73.33	16.32	0.00	150.0	± 9.6 %
		Y	2.60	67.53	13.47		150.0	
		Z	3.17	70.22	15.12		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	6.42	70.80	19.95	4.17	80.0	± 9.6 %
		Y	5.85	68.28	18.73		80.0	
		Z	6.66	70.87	20.11		80.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	6.86	71.35	20.71	4.96	80.0	± 9.6 %
		Y	6.35	68.91	19.47		80.0	
		Z	7.11	71.37	20.83		80.0	

10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	6.84	71.84	20.95	4.96	80.0	± 9.6 %
		Y	6.23	69.08	19.57		80.0	
		Z	7.13	71.99	21.14		80.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	6.25	70.45	19.80	4.17	80.0	± 9.6 %
		Y	5.80	68.17	18.65		80.0	
		Z	6.50	70.49	19.92		80.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	49.65	119.28	38.44	6.02	50.0	± 9.6 %
		Y	10.65	85.16	27.43		50.0	
		Z	13.29	88.05	28.20		50.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	8.73	78.44	24.47	6.02	50.0	± 9.6 %
		Y	6.83	72.29	21.73		50.0	
		Z	9.03	78.57	24.80		50.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	9.30	79.96	24.85	6.02	50.0	± 9.6 %
		Y	6.96	73.05	21.88		50.0	
		Z	9.67	80.24	25.25		50.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	9.67	81.00	25.27	6.02	50.0	± 9.6 %
		Y	7.03	73.49	22.09		50.0	
		Z	10.03	81.24	25.65		50.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	8.95	78.93	24.71	6.02	50.0	± 9.6 %
		Y	6.95	72.62	21.91		50.0	
		Z	9.23	78.99	25.00		50.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	8.94	79.02	24.59	6.02	50.0	± 9.6 %
		Y	6.85	72.53	21.75		50.0	
		Z	9.24	79.17	24.93		50.0	
10311-AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.23	69.95	16.53	0.00	150.0	± 9.6 %
		Y	3.03	67.94	15.41		150.0	
		Z	3.23	69.04	16.06		150.0	
10313-AAA	iDEN 1:3	X	6.43	75.07	17.37	6.99	70.0	± 9.6 %
		Y	6.45	75.52	17.67		70.0	
		Z	7.75	75.88	17.91		70.0	
10314-AAA	iDEN 1:6	X	7.30	77.69	20.57	10.00	30.0	± 9.6 %
		Y	7.44	78.85	21.26		30.0	
		Z	9.37	79.92	21.57		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.10	65.47	16.05	0.17	150.0	± 9.6 %
		Y	1.10	63.46	14.47		150.0	
		Z	1.21	64.87	15.47		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.66	67.03	16.49	0.17	150.0	± 9.6 %
		Y	4.73	66.65	16.18		150.0	
		Z	4.81	66.96	16.41		150.0	
10317-AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.66	67.03	16.49	0.17	150.0	± 9.6 %
		Y	4.73	66.65	16.18		150.0	
		Z	4.81	66.96	16.41		150.0	
10400-AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.73	67.22	16.38	0.00	150.0	± 9.6 %
		Y	4.82	66.86	16.07		150.0	
		Z	4.89	67.13	16.28		150.0	
10401-AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.39	67.35	16.51	0.00	150.0	± 9.6 %
		Y	5.47	67.03	16.23		150.0	
		Z	5.51	67.21	16.38		150.0	

10402-AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.67	67.76	16.54	0.00	150.0	± 9.6 %
		Y	5.76	67.53	16.32		150.0	
		Z	5.81	67.75	16.48		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.59	70.28	14.59	0.00	115.0	± 9.6 %
		Y	1.36	66.45	13.11		115.0	
		Z	1.59	68.62	14.57		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.59	70.28	14.59	0.00	115.0	± 9.6 %
		Y	1.36	66.45	13.11		115.0	
		Z	1.59	68.62	14.57		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	127.64	33.69	0.00	100.0	± 9.6 %
		Y	18.21	98.32	25.40		100.0	
		Z	71.51	118.44	30.91		100.0	
10410-AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	122.77	32.04	3.23	80.0	± 9.6 %
		Y	100.00	119.65	30.60		80.0	
		Z	100.00	118.35	30.47		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	0.92	63.53	15.00	0.00	150.0	± 9.6 %
		Y	0.96	62.06	13.62		150.0	
		Z	1.00	62.87	14.40		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.53	66.82	16.30	0.00	150.0	± 9.6 %
		Y	4.62	66.46	16.00		150.0	
		Z	4.68	66.71	16.20		150.0	
10417-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.53	66.82	16.30	0.00	150.0	± 9.6 %
		Y	4.62	66.46	16.00		150.0	
		Z	4.68	66.71	16.20		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	X	4.52	66.97	16.31	0.00	150.0	± 9.6 %
		Y	4.60	66.57	15.99		150.0	
		Z	4.66	66.83	16.19		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	X	4.54	66.92	16.32	0.00	150.0	± 9.6 %
		Y	4.62	66.54	16.01		150.0	
		Z	4.69	66.80	16.20		150.0	
10422-AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.67	66.93	16.33	0.00	150.0	± 9.6 %
		Y	4.75	66.58	16.04		150.0	
		Z	4.82	66.82	16.23		150.0	
10423-AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.86	67.29	16.46	0.00	150.0	± 9.6 %
		Y	4.96	66.96	16.18		150.0	
		Z	5.03	67.21	16.38		150.0	
10424-AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.77	67.23	16.43	0.00	150.0	± 9.6 %
		Y	4.86	66.88	16.14		150.0	
		Z	4.93	67.14	16.33		150.0	
10425-AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.37	67.59	16.62	0.00	150.0	± 9.6 %
		Y	5.45	67.29	16.35		150.0	
		Z	5.50	67.49	16.50		150.0	
10426-AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.38	67.61	16.62	0.00	150.0	± 9.6 %
		Y	5.46	67.33	16.36		150.0	
		Z	5.51	67.53	16.52		150.0	

10427-AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.39	67.58	16.60	0.00	150.0	± 9.6 %
		Y	5.48	67.33	16.36		150.0	
		Z	5.54	67.55	16.52		150.0	
10430-AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.19	70.39	18.02	0.00	150.0	± 9.6 %
		Y	4.21	69.44	17.54		150.0	
		Z	4.27	69.55	17.68		150.0	
10431-AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.26	67.42	16.35	0.00	150.0	± 9.6 %
		Y	4.34	66.91	16.00		150.0	
		Z	4.42	67.22	16.25		150.0	
10432-AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.55	67.29	16.39	0.00	150.0	± 9.6 %
		Y	4.63	66.88	16.08		150.0	
		Z	4.71	67.16	16.29		150.0	
10433-AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.79	67.27	16.45	0.00	150.0	± 9.6 %
		Y	4.88	66.93	16.17		150.0	
		Z	4.95	67.19	16.36		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.28	71.13	17.97	0.00	150.0	± 9.6 %
		Y	4.26	69.99	17.46		150.0	
		Z	4.32	70.11	17.62		150.0	
10435-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	122.61	31.97	3.23	80.0	± 9.6 %
		Y	100.00	119.50	30.53		80.0	
		Z	100.00	118.23	30.42		80.0	
10447-AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.57	67.49	15.78	0.00	150.0	± 9.6 %
		Y	3.62	66.75	15.38		150.0	
		Z	3.72	67.17	15.74		150.0	
10448-AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.08	67.19	16.21	0.00	150.0	± 9.6 %
		Y	4.15	66.67	15.84		150.0	
		Z	4.23	66.98	16.09		150.0	
10449-AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.34	67.11	16.29	0.00	150.0	± 9.6 %
		Y	4.42	66.68	15.95		150.0	
		Z	4.49	66.96	16.18		150.0	
10450-AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.53	67.03	16.30	0.00	150.0	± 9.6 %
		Y	4.60	66.65	16.00		150.0	
		Z	4.67	66.92	16.20		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.48	67.73	15.45	0.00	150.0	± 9.6 %
		Y	3.53	66.94	15.08		150.0	
		Z	3.65	67.42	15.49		150.0	
10456-AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.23	68.14	16.76	0.00	150.0	± 9.6 %
		Y	6.31	67.96	16.57		150.0	
		Z	6.36	68.15	16.70		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.74	65.44	16.04	0.00	150.0	± 9.6 %
		Y	3.81	65.10	15.71		150.0	
		Z	3.85	65.36	15.93		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.91	70.37	17.44	0.00	150.0	± 9.6 %
		Y	3.86	69.03	16.86		150.0	
		Z	3.93	69.18	17.08		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	5.03	67.88	18.00	0.00	150.0	± 9.6 %
		Y	5.09	67.24	17.68		150.0	
		Z	5.06	66.92	17.57		150.0	

10460-AAA	UMTS-FDD (WCDMA, AMR)	X	1.00	72.44	17.77	0.00	150.0	± 9.6 %
		Y	0.77	65.17	13.86		150.0	
		Z	0.89	67.59	15.60		150.0	
10461-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.78	33.95	3.29	80.0	± 9.6 %
		Y	100.00	121.36	31.47		80.0	
		Z	100.00	119.90	31.26		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	112.97	27.36	3.23	80.0	± 9.6 %
		Y	40.13	98.63	23.16		80.0	
		Z	100.00	109.33	26.15		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.25	26.04	3.23	80.0	± 9.6 %
		Y	15.23	86.03	19.29		80.0	
		Z	55.17	100.48	23.56		80.0	
10464-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	125.19	33.05	3.23	80.0	± 9.6 %
		Y	100.00	119.66	30.54		80.0	
		Z	100.00	118.48	30.46		80.0	
10465-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	112.55	27.15	3.23	80.0	± 9.6 %
		Y	24.84	92.84	21.58		80.0	
		Z	100.00	109.01	25.99		80.0	
10466-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.82	25.83	3.23	80.0	± 9.6 %
		Y	11.09	82.34	18.13		80.0	
		Z	37.27	95.72	22.29		80.0	
10467-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	125.40	33.15	3.23	80.0	± 9.6 %
		Y	100.00	119.83	30.62		80.0	
		Z	100.00	118.63	30.53		80.0	
10468-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	112.69	27.22	3.23	80.0	± 9.6 %
		Y	27.81	94.22	21.97		80.0	
		Z	100.00	109.12	26.04		80.0	
10469-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.84	25.83	3.23	80.0	± 9.6 %
		Y	11.23	82.49	18.17		80.0	
		Z	38.36	96.06	22.38		80.0	
10470-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	125.43	33.16	3.23	80.0	± 9.6 %
		Y	100.00	119.85	30.62		80.0	
		Z	100.00	118.65	30.53		80.0	
10471-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	112.66	27.19	3.23	80.0	± 9.6 %
		Y	27.80	94.19	21.95		80.0	
		Z	100.00	109.08	26.02		80.0	
10472-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.80	25.81	3.23	80.0	± 9.6 %
		Y	11.22	82.46	18.16		80.0	
		Z	38.61	96.12	22.38		80.0	
10473-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	125.41	33.14	3.23	80.0	± 9.6 %
		Y	100.00	119.83	30.61		80.0	
		Z	100.00	118.63	30.52		80.0	
10474-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	112.67	27.20	3.23	80.0	± 9.6 %
		Y	27.47	94.07	21.92		80.0	
		Z	100.00	109.09	26.02		80.0	
10475-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.81	25.82	3.23	80.0	± 9.6 %
		Y	11.12	82.37	18.13		80.0	
		Z	38.16	95.99	22.35		80.0	

10477-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	112.52	27.13	3.23	80.0	± 9.6 %
		Y	25.40	93.08	21.63		80.0	
		Z	100.00	108.98	25.96		80.0	
10478-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.77	25.80	3.23	80.0	± 9.6 %
		Y	11.01	82.25	18.09		80.0	
		Z	37.61	95.80	22.29		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	90.21	124.69	34.60	3.23	80.0	± 9.6 %
		Y	9.57	86.48	23.60		80.0	
		Z	14.78	92.12	25.48		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	64.63	111.27	29.38	3.23	80.0	± 9.6 %
		Y	10.37	83.47	21.24		80.0	
		Z	14.71	87.60	22.75		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	47.03	105.45	27.53	3.23	80.0	± 9.6 %
		Y	9.37	81.44	20.28		80.0	
		Z	13.28	85.51	21.82		80.0	
10482-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.32	79.63	19.73	2.23	80.0	± 9.6 %
		Y	4.38	73.92	17.80		80.0	
		Z	6.22	77.60	19.22		80.0	
10483-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	20.09	94.48	25.09	2.23	80.0	± 9.6 %
		Y	7.31	78.53	19.68		80.0	
		Z	9.86	81.94	21.03		80.0	
10484-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	16.55	91.41	24.18	2.23	80.0	± 9.6 %
		Y	6.96	77.61	19.35		80.0	
		Z	9.31	80.91	20.69		80.0	
10485-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.73	80.96	20.98	2.23	80.0	± 9.6 %
		Y	4.73	74.94	18.80		80.0	
		Z	6.60	78.59	20.13		80.0	
10486-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.96	73.58	17.97	2.23	80.0	± 9.6 %
		Y	4.32	70.95	17.02		80.0	
		Z	5.42	73.24	17.97		80.0	
10487-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.88	73.03	17.75	2.23	80.0	± 9.6 %
		Y	4.33	70.66	16.90		80.0	
		Z	5.39	72.86	17.83		80.0	
10488-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.32	78.78	20.80	2.23	80.0	± 9.6 %
		Y	5.01	74.35	19.01		80.0	
		Z	6.60	77.40	20.11		80.0	
10489-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.00	72.80	18.70	2.23	80.0	± 9.6 %
		Y	4.57	70.67	17.76		80.0	
		Z	5.55	72.76	18.59		80.0	
10490-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.04	72.42	18.58	2.23	80.0	± 9.6 %
		Y	4.66	70.46	17.71		80.0	
		Z	5.60	72.44	18.50		80.0	
10491-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.83	75.65	19.79	2.23	80.0	± 9.6 %
		Y	5.08	72.73	18.51		80.0	
		Z	6.30	75.11	19.38		80.0	
10492-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.16	71.51	18.47	2.23	80.0	± 9.6 %
		Y	4.88	69.96	17.73		80.0	
		Z	5.75	71.76	18.44		80.0	

10493-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.20	71.27	18.40	2.23	80.0	± 9.6 %
		Y	4.95	69.82	17.69		80.0	
		Z	5.79	71.55	18.39		80.0	
10494-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.55	77.55	20.31	2.23	80.0	± 9.6 %
		Y	5.51	74.14	18.88		80.0	
		Z	6.93	76.65	19.77		80.0	
10495-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.27	72.08	18.70	2.23	80.0	± 9.6 %
		Y	4.95	70.44	17.90		80.0	
		Z	5.86	72.30	18.63		80.0	
10496-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.28	71.61	18.56	2.23	80.0	± 9.6 %
		Y	5.01	70.12	17.83		80.0	
		Z	5.88	71.89	18.52		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.59	74.90	17.23	2.23	80.0	± 9.6 %
		Y	3.55	71.13	16.09		80.0	
		Z	5.10	74.81	17.64		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.12	67.36	13.33	2.23	80.0	± 9.6 %
		Y	3.07	66.83	13.49		80.0	
		Z	4.12	69.58	14.88		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.01	66.67	12.91	2.23	80.0	± 9.6 %
		Y	3.04	66.43	13.20		80.0	
		Z	4.06	69.13	14.59		80.0	
10500-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.31	79.47	20.72	2.23	80.0	± 9.6 %
		Y	4.74	74.32	18.77		80.0	
		Z	6.42	77.63	19.98		80.0	
10501-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.97	73.19	18.22	2.23	80.0	± 9.6 %
		Y	4.43	70.78	17.28		80.0	
		Z	5.46	72.93	18.17		80.0	
10502-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.98	72.87	18.05	2.23	80.0	± 9.6 %
		Y	4.48	70.60	17.18		80.0	
		Z	5.48	72.68	18.04		80.0	
10503-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.23	78.57	20.71	2.23	80.0	± 9.6 %
		Y	4.95	74.18	18.93		80.0	
		Z	6.53	77.24	20.04		80.0	
10504-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.98	72.72	18.66	2.23	80.0	± 9.6 %
		Y	4.55	70.60	17.72		80.0	
		Z	5.53	72.69	18.55		80.0	
10505-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.02	72.33	18.53	2.23	80.0	± 9.6 %
		Y	4.64	70.38	17.67		80.0	
		Z	5.57	72.36	18.46		80.0	
10506-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.49	77.40	20.24	2.23	80.0	± 9.6 %
		Y	5.47	74.02	18.82		80.0	
		Z	6.88	76.53	19.71		80.0	
10507-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.25	72.02	18.67	2.23	80.0	± 9.6 %
		Y	4.94	70.38	17.87		80.0	
		Z	5.84	72.25	18.60		80.0	

10508-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.26	71.54	18.52	2.23	80.0	± 9.6 %
		Y	5.00	70.07	17.79		80.0	
		Z	5.86	71.83	18.49		80.0	
10509-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.22	74.73	19.28	2.23	80.0	± 9.6 %
		Y	5.63	72.56	18.29		80.0	
		Z	6.73	74.47	18.99		80.0	
10510-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.62	71.26	18.45	2.23	80.0	± 9.6 %
		Y	5.41	70.06	17.83		80.0	
		Z	6.23	71.65	18.46		80.0	
10511-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.62	70.88	18.36	2.23	80.0	± 9.6 %
		Y	5.44	69.78	17.77		80.0	
		Z	6.23	71.32	18.38		80.0	
10512-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.86	76.90	19.92	2.23	80.0	± 9.6 %
		Y	5.94	74.08	18.72		80.0	
		Z	7.26	76.25	19.50		80.0	
10513-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.58	71.78	18.64	2.23	80.0	± 9.6 %
		Y	5.32	70.45	17.96		80.0	
		Z	6.20	72.16	18.62		80.0	
10514-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.52	71.19	18.48	2.23	80.0	± 9.6 %
		Y	5.30	69.99	17.84		80.0	
		Z	6.13	71.63	18.49		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.88	63.81	15.10	0.00	150.0	± 9.6 %
		Y	0.92	62.16	13.61		150.0	
		Z	0.97	63.04	14.44		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	1.99	92.93	24.60	0.00	150.0	± 9.6 %
		Y	0.45	65.24	13.37		150.0	
		Z	0.58	69.39	16.28		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.78	67.02	16.26	0.00	150.0	± 9.6 %
		Y	0.75	63.36	13.67		150.0	
		Z	0.82	64.87	14.95		150.0	
10518-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.53	66.90	16.28	0.00	150.0	± 9.6 %
		Y	4.61	66.53	15.98		150.0	
		Z	4.67	66.78	16.18		150.0	
10519-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.74	67.18	16.42	0.00	150.0	± 9.6 %
		Y	4.83	66.83	16.13		150.0	
		Z	4.90	67.09	16.33		150.0	
10520-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.59	67.15	16.34	0.00	150.0	± 9.6 %
		Y	4.68	66.79	16.04		150.0	
		Z	4.75	67.06	16.25		150.0	
10521-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.52	67.16	16.33	0.00	150.0	± 9.6 %
		Y	4.61	66.78	16.02		150.0	
		Z	4.68	67.07	16.23		150.0	
10522-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.57	67.19	16.39	0.00	150.0	± 9.6 %
		Y	4.65	66.76	16.06		150.0	
		Z	4.72	67.02	16.25		150.0	

10523-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.44	67.05	16.22	0.00	150.0	± 9.6 %
		Y	4.52	66.65	15.90		150.0	
		Z	4.59	66.92	16.11		150.0	
10524-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.52	67.13	16.37	0.00	150.0	± 9.6 %
		Y	4.61	66.72	16.04		150.0	
		Z	4.68	66.99	16.25		150.0	
10525-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.49	66.14	15.94	0.00	150.0	± 9.6 %
		Y	4.56	65.74	15.62		150.0	
		Z	4.62	66.01	15.83		150.0	
10526-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.68	66.54	16.10	0.00	150.0	± 9.6 %
		Y	4.76	66.14	15.77		150.0	
		Z	4.83	66.42	15.98		150.0	
10527-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.60	66.51	16.04	0.00	150.0	± 9.6 %
		Y	4.67	66.10	15.72		150.0	
		Z	4.74	66.39	15.93		150.0	
10528-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.62	66.53	16.08	0.00	150.0	± 9.6 %
		Y	4.69	66.13	15.75		150.0	
		Z	4.76	66.41	15.96		150.0	
10529-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.62	66.53	16.08	0.00	150.0	± 9.6 %
		Y	4.69	66.13	15.75		150.0	
		Z	4.76	66.41	15.96		150.0	
10531-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.62	66.68	16.10	0.00	150.0	± 9.6 %
		Y	4.70	66.26	15.77		150.0	
		Z	4.78	66.56	15.99		150.0	
10532-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.47	66.53	16.04	0.00	150.0	± 9.6 %
		Y	4.55	66.11	15.71		150.0	
		Z	4.62	66.43	15.93		150.0	
10533-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.63	66.56	16.06	0.00	150.0	± 9.6 %
		Y	4.70	66.14	15.73		150.0	
		Z	4.78	66.43	15.94		150.0	
10534-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.14	66.64	16.12	0.00	150.0	± 9.6 %
		Y	5.21	66.35	15.86		150.0	
		Z	5.28	66.60	16.03		150.0	
10535-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.21	66.80	16.19	0.00	150.0	± 9.6 %
		Y	5.28	66.48	15.91		150.0	
		Z	5.35	66.74	16.09		150.0	
10536-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.08	66.78	16.16	0.00	150.0	± 9.6 %
		Y	5.15	66.46	15.88		150.0	
		Z	5.21	66.72	16.06		150.0	
10537-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.14	66.75	16.15	0.00	150.0	± 9.6 %
		Y	5.22	66.45	15.88		150.0	
		Z	5.28	66.71	16.05		150.0	
10538-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.25	66.81	16.22	0.00	150.0	± 9.6 %
		Y	5.33	66.54	15.97		150.0	
		Z	5.40	66.79	16.14		150.0	
10540-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.16	66.78	16.22	0.00	150.0	± 9.6 %
		Y	5.23	66.47	15.94		150.0	
		Z	5.29	66.72	16.12		150.0	

10541-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.13	66.65	16.15	0.00	150.0	± 9.6 %
		Y	5.21	66.38	15.89		150.0	
		Z	5.28	66.65	16.08		150.0	
10542-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.29	66.72	16.20	0.00	150.0	± 9.6 %
		Y	5.37	66.44	15.94		150.0	
		Z	5.43	66.68	16.11		150.0	
10543-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.37	66.74	16.23	0.00	150.0	± 9.6 %
		Y	5.45	66.46	15.97		150.0	
		Z	5.52	66.70	16.14		150.0	
10544-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.43	66.73	16.10	0.00	150.0	± 9.6 %
		Y	5.49	66.47	15.86		150.0	
		Z	5.55	66.72	16.02		150.0	
10545-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.64	67.19	16.27	0.00	150.0	± 9.6 %
		Y	5.71	66.90	16.01		150.0	
		Z	5.76	67.12	16.16		150.0	
10546-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.52	67.01	16.20	0.00	150.0	± 9.6 %
		Y	5.59	66.76	15.96		150.0	
		Z	5.65	67.01	16.13		150.0	
10547-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.61	67.10	16.23	0.00	150.0	± 9.6 %
		Y	5.68	66.83	15.99		150.0	
		Z	5.74	67.08	16.15		150.0	
10548-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.96	68.35	16.83	0.00	150.0	± 9.6 %
		Y	6.03	68.03	16.56		150.0	
		Z	6.05	68.17	16.68		150.0	
10550-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.54	66.98	16.19	0.00	150.0	± 9.6 %
		Y	5.61	66.71	15.94		150.0	
		Z	5.67	66.95	16.11		150.0	
10551-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.55	67.03	16.18	0.00	150.0	± 9.6 %
		Y	5.63	66.81	15.95		150.0	
		Z	5.69	67.06	16.12		150.0	
10552-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.45	66.80	16.07	0.00	150.0	± 9.6 %
		Y	5.53	66.56	15.85		150.0	
		Z	5.59	66.82	16.02		150.0	
10553-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.54	66.85	16.13	0.00	150.0	± 9.6 %
		Y	5.62	66.62	15.90		150.0	
		Z	5.68	66.87	16.07		150.0	
10554-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.83	67.11	16.19	0.00	150.0	± 9.6 %
		Y	5.90	66.88	15.97		150.0	
		Z	5.95	67.11	16.13		150.0	
10555-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.98	67.45	16.33	0.00	150.0	± 9.6 %
		Y	6.05	67.22	16.12		150.0	
		Z	6.11	67.46	16.28		150.0	
10556-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.00	67.48	16.34	0.00	150.0	± 9.6 %
		Y	6.06	67.23	16.12		150.0	
		Z	6.11	67.45	16.27		150.0	
10557-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.97	67.41	16.33	0.00	150.0	± 9.6 %
		Y	6.05	67.20	16.12		150.0	
		Z	6.10	67.44	16.28		150.0	

10558-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.03	67.61	16.45	0.00	150.0	± 9.6 %
		Y	6.11	67.39	16.23		150.0	
		Z	6.17	67.64	16.39		150.0	
10560-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.02	67.42	16.39	0.00	150.0	± 9.6 %
		Y	6.10	67.21	16.18		150.0	
		Z	6.16	67.47	16.35		150.0	
10561-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.94	67.40	16.42	0.00	150.0	± 9.6 %
		Y	6.01	67.17	16.20		150.0	
		Z	6.07	67.42	16.36		150.0	
10562-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.10	67.91	16.68	0.00	150.0	± 9.6 %
		Y	6.18	67.68	16.46		150.0	
		Z	6.23	67.92	16.62		150.0	
10563-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.49	68.61	16.97	0.00	150.0	± 9.6 %
		Y	6.50	68.18	16.66		150.0	
		Z	6.52	68.31	16.76		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.87	67.04	16.48	0.46	150.0	± 9.6 %
		Y	4.96	66.71	16.21		150.0	
		Z	5.03	66.98	16.41		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	5.12	67.50	16.79	0.46	150.0	± 9.6 %
		Y	5.22	67.19	16.53		150.0	
		Z	5.29	67.45	16.72		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.96	67.38	16.62	0.46	150.0	± 9.6 %
		Y	5.05	67.06	16.36		150.0	
		Z	5.13	67.34	16.56		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.98	67.73	16.94	0.46	150.0	± 9.6 %
		Y	5.07	67.40	16.67		150.0	
		Z	5.14	67.66	16.85		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.88	67.19	16.42	0.46	150.0	± 9.6 %
		Y	4.97	66.80	16.12		150.0	
		Z	5.05	67.10	16.34		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.93	67.77	16.97	0.46	150.0	± 9.6 %
		Y	5.01	67.41	16.68		150.0	
		Z	5.08	67.66	16.86		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.97	67.63	16.92	0.46	150.0	± 9.6 %
		Y	5.06	67.27	16.63		150.0	
		Z	5.13	67.52	16.82		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.33	67.26	16.86	0.46	130.0	± 9.6 %
		Y	1.28	64.79	15.16		130.0	
		Z	1.47	66.73	16.32		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.36	68.09	17.31	0.46	130.0	± 9.6 %
		Y	1.29	65.30	15.45		130.0	
		Z	1.50	67.36	16.65		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	100.00	139.47	35.44	0.46	130.0	± 9.6 %
		Y	1.64	77.13	18.60		130.0	
		Z	4.38	90.67	23.58		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.97	78.33	21.68	0.46	130.0	± 9.6 %
		Y	1.41	69.97	17.57		130.0	
		Z	1.82	73.72	19.41		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.71	66.97	16.61	0.46	130.0	± 9.6 %
		Y	4.79	66.60	16.31		130.0	
		Z	4.87	66.91	16.53		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.73	67.11	16.65	0.46	130.0	± 9.6 %
		Y	4.81	66.74	16.36		130.0	
		Z	4.89	67.05	16.58		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.95	67.43	16.83	0.46	130.0	± 9.6 %
		Y	5.04	67.08	16.55		130.0	
		Z	5.13	67.38	16.76		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.85	67.58	16.92	0.46	130.0	± 9.6 %
		Y	4.93	67.22	16.63		130.0	
		Z	5.02	67.52	16.83		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.64	67.01	16.32	0.46	130.0	± 9.6 %
		Y	4.72	66.63	16.01		130.0	
		Z	4.82	67.01	16.28		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.68	67.01	16.33	0.46	130.0	± 9.6 %
		Y	4.76	66.60	16.01		130.0	
		Z	4.86	66.97	16.28		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.76	67.67	16.87	0.46	130.0	± 9.6 %
		Y	4.84	67.28	16.57		130.0	
		Z	4.94	67.62	16.80		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.59	66.79	16.14	0.46	130.0	± 9.6 %
		Y	4.68	66.40	15.82		130.0	
		Z	4.78	66.78	16.10		130.0	
10583-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.71	66.97	16.61	0.46	130.0	± 9.6 %
		Y	4.79	66.60	16.31		130.0	
		Z	4.87	66.91	16.53		130.0	
10584-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.73	67.11	16.65	0.46	130.0	± 9.6 %
		Y	4.81	66.74	16.36		130.0	
		Z	4.89	67.05	16.58		130.0	
10585-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.95	67.43	16.83	0.46	130.0	± 9.6 %
		Y	5.04	67.08	16.55		130.0	
		Z	5.13	67.38	16.76		130.0	
10586-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.85	67.58	16.92	0.46	130.0	± 9.6 %
		Y	4.93	67.22	16.63		130.0	
		Z	5.02	67.52	16.83		130.0	
10587-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.64	67.01	16.32	0.46	130.0	± 9.6 %
		Y	4.72	66.63	16.01		130.0	
		Z	4.82	67.01	16.28		130.0	
10588-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.68	67.01	16.33	0.46	130.0	± 9.6 %
		Y	4.76	66.60	16.01		130.0	
		Z	4.86	66.97	16.28		130.0	
10589-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.76	67.67	16.87	0.46	130.0	± 9.6 %
		Y	4.84	67.28	16.57		130.0	
		Z	4.94	67.62	16.80		130.0	
10590-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.59	66.79	16.14	0.46	130.0	± 9.6 %
		Y	4.68	66.40	15.82		130.0	
		Z	4.78	66.78	16.10		130.0	

10591-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.85	66.99	16.68	0.46	130.0	± 9.6 %
		Y	4.94	66.66	16.41		130.0	
		Z	5.02	66.95	16.62		130.0	
10592-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	5.02	67.34	16.81	0.46	130.0	± 9.6 %
		Y	5.11	67.00	16.53		130.0	
		Z	5.19	67.29	16.73		130.0	
10593-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.95	67.29	16.72	0.46	130.0	± 9.6 %
		Y	5.04	66.95	16.44		130.0	
		Z	5.13	67.26	16.66		130.0	
10594-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	5.00	67.43	16.85	0.46	130.0	± 9.6 %
		Y	5.09	67.09	16.57		130.0	
		Z	5.18	67.38	16.78		130.0	
10595-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.98	67.40	16.76	0.46	130.0	± 9.6 %
		Y	5.07	67.06	16.48		130.0	
		Z	5.16	67.37	16.69		130.0	
10596-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.92	67.43	16.77	0.46	130.0	± 9.6 %
		Y	5.00	67.06	16.48		130.0	
		Z	5.10	67.38	16.70		130.0	
10597-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.87	67.35	16.67	0.46	130.0	± 9.6 %
		Y	4.95	66.99	16.38		130.0	
		Z	5.05	67.33	16.62		130.0	
10598-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.85	67.58	16.92	0.46	130.0	± 9.6 %
		Y	4.93	67.22	16.63		130.0	
		Z	5.02	67.55	16.85		130.0	
10599-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.52	67.55	16.88	0.46	130.0	± 9.6 %
		Y	5.61	67.32	16.65		130.0	
		Z	5.67	67.54	16.81		130.0	
10600-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.72	68.20	17.18	0.46	130.0	± 9.6 %
		Y	5.83	67.98	16.96		130.0	
		Z	5.90	68.23	17.13		130.0	
10601-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.57	67.82	17.00	0.46	130.0	± 9.6 %
		Y	5.67	67.57	16.76		130.0	
		Z	5.74	67.81	16.93		130.0	
10602-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.66	67.81	16.92	0.46	130.0	± 9.6 %
		Y	5.76	67.58	16.69		130.0	
		Z	5.84	67.85	16.88		130.0	
10603-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.74	68.07	17.17	0.46	130.0	± 9.6 %
		Y	5.86	67.90	16.97		130.0	
		Z	5.94	68.20	17.17		130.0	
10604-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.52	67.51	16.88	0.46	130.0	± 9.6 %
		Y	5.62	67.28	16.66		130.0	
		Z	5.68	67.53	16.82		130.0	
10605-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.65	67.90	17.08	0.46	130.0	± 9.6 %
		Y	5.73	67.59	16.81		130.0	
		Z	5.79	67.83	16.99		130.0	
10606-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.41	67.30	16.65	0.46	130.0	± 9.6 %
		Y	5.50	67.05	16.41		130.0	
		Z	5.58	67.35	16.62		130.0	

10607-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.69	66.28	16.29	0.46	130.0	± 9.6 %
		Y	4.75	65.90	15.98		130.0	
		Z	4.83	66.19	16.19		130.0	
10608-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.89	66.71	16.46	0.46	130.0	± 9.6 %
		Y	4.97	66.32	16.15		130.0	
		Z	5.05	66.62	16.35		130.0	
10609-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.78	66.59	16.32	0.46	130.0	± 9.6 %
		Y	4.85	66.20	16.01		130.0	
		Z	4.94	66.52	16.23		130.0	
10610-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.83	66.74	16.47	0.46	130.0	± 9.6 %
		Y	4.91	66.35	16.16		130.0	
		Z	5.00	66.66	16.37		130.0	
10611-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.76	66.58	16.34	0.46	130.0	± 9.6 %
		Y	4.83	66.19	16.03		130.0	
		Z	4.93	66.52	16.25		130.0	
10612-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.78	66.76	16.39	0.46	130.0	± 9.6 %
		Y	4.85	66.33	16.06		130.0	
		Z	4.94	66.67	16.29		130.0	
10613-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.79	66.67	16.29	0.46	130.0	± 9.6 %
		Y	4.86	66.26	15.97		130.0	
		Z	4.96	66.61	16.21		130.0	
10614-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.71	66.81	16.49	0.46	130.0	± 9.6 %
		Y	4.79	66.42	16.18		130.0	
		Z	4.88	66.75	16.40		130.0	
10615-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.76	66.42	16.13	0.46	130.0	± 9.6 %
		Y	4.84	66.02	15.82		130.0	
		Z	4.93	66.36	16.05		130.0	
10616-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.33	66.79	16.47	0.46	130.0	± 9.6 %
		Y	5.41	66.50	16.22		130.0	
		Z	5.48	66.76	16.39		130.0	
10617-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.39	66.91	16.50	0.46	130.0	± 9.6 %
		Y	5.47	66.60	16.24		130.0	
		Z	5.54	66.88	16.42		130.0	
10618-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.29	66.98	16.55	0.46	130.0	± 9.6 %
		Y	5.36	66.67	16.28		130.0	
		Z	5.43	66.94	16.46		130.0	
10619-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.32	66.82	16.41	0.46	130.0	± 9.6 %
		Y	5.39	66.50	16.14		130.0	
		Z	5.46	66.77	16.32		130.0	
10620-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.42	66.90	16.50	0.46	130.0	± 9.6 %
		Y	5.51	66.63	16.26		130.0	
		Z	5.58	66.90	16.44		130.0	
10621-AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.39	66.92	16.62	0.46	130.0	± 9.6 %
		Y	5.48	66.66	16.38		130.0	
		Z	5.55	66.92	16.55		130.0	
10622-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.40	67.08	16.70	0.46	130.0	± 9.6 %
		Y	5.48	66.78	16.43		130.0	
		Z	5.54	67.02	16.59		130.0	

10623-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.29	66.65	16.37	0.46	130.0	± 9.6 %
		Y	5.37	66.39	16.13		130.0	
		Z	5.45	66.69	16.33		130.0	
10624-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.48	66.84	16.53	0.46	130.0	± 9.6 %
		Y	5.56	66.57	16.28		130.0	
		Z	5.62	66.81	16.45		130.0	
10625-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.93	68.08	17.19	0.46	130.0	± 9.6 %
		Y	5.98	67.67	16.88		130.0	
		Z	6.01	67.79	16.99		130.0	
10626-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.60	66.79	16.39	0.46	130.0	± 9.6 %
		Y	5.66	66.54	16.16		130.0	
		Z	5.72	66.79	16.33		130.0	
10627-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.87	67.43	16.67	0.46	130.0	± 9.6 %
		Y	5.93	67.13	16.41		130.0	
		Z	5.98	67.32	16.54		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.66	66.98	16.39	0.46	130.0	± 9.6 %
		Y	5.74	66.74	16.16		130.0	
		Z	5.80	67.00	16.33		130.0	
10629-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.74	67.03	16.41	0.46	130.0	± 9.6 %
		Y	5.83	66.81	16.19		130.0	
		Z	5.90	67.08	16.36		130.0	
10630-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.38	69.14	17.46	0.46	130.0	± 9.6 %
		Y	6.44	68.79	17.18		130.0	
		Z	6.46	68.93	17.30		130.0	
10631-AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.16	68.55	17.34	0.46	130.0	± 9.6 %
		Y	6.25	68.33	17.13		130.0	
		Z	6.31	68.53	17.26		130.0	
10632-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.82	67.41	16.79	0.46	130.0	± 9.6 %
		Y	5.90	67.16	16.56		130.0	
		Z	5.96	67.38	16.70		130.0	
10633-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.73	67.15	16.49	0.46	130.0	± 9.6 %
		Y	5.84	67.00	16.31		130.0	
		Z	5.91	67.28	16.49		130.0	
10634-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.70	67.12	16.54	0.46	130.0	± 9.6 %
		Y	5.80	66.95	16.35		130.0	
		Z	5.88	67.23	16.52		130.0	
10635-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.61	66.56	16.02	0.46	130.0	± 9.6 %
		Y	5.70	66.35	15.80		130.0	
		Z	5.78	66.65	16.00		130.0	
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.01	67.18	16.49	0.46	130.0	± 9.6 %
		Y	6.08	66.96	16.28		130.0	
		Z	6.13	67.18	16.43		130.0	
10637-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.18	67.59	16.67	0.46	130.0	± 9.6 %
		Y	6.25	67.37	16.46		130.0	
		Z	6.31	67.60	16.61		130.0	
10638-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.18	67.57	16.64	0.46	130.0	± 9.6 %
		Y	6.25	67.33	16.42		130.0	
		Z	6.30	67.54	16.57		130.0	

10639-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.17	67.54	16.67	0.46	130.0	± 9.6 %
		Y	6.25	67.35	16.48		130.0	
		Z	6.31	67.58	16.63		130.0	
10640-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.20	67.64	16.67	0.46	130.0	± 9.6 %
		Y	6.29	67.45	16.48		130.0	
		Z	6.35	67.70	16.64		130.0	
10641-AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.20	67.39	16.56	0.46	130.0	± 9.6 %
		Y	6.27	67.17	16.35		130.0	
		Z	6.33	67.41	16.51		130.0	
10642-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.25	67.66	16.85	0.46	130.0	± 9.6 %
		Y	6.33	67.47	16.66		130.0	
		Z	6.39	67.70	16.81		130.0	
10643-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.09	67.40	16.64	0.46	130.0	± 9.6 %
		Y	6.17	67.18	16.43		130.0	
		Z	6.23	67.44	16.60		130.0	
10644-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.32	68.11	17.02	0.46	130.0	± 9.6 %
		Y	6.41	67.92	16.82		130.0	
		Z	6.47	68.17	16.99		130.0	
10645-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.80	69.06	17.44	0.46	130.0	± 9.6 %
		Y	6.75	68.45	17.03		130.0	
		Z	6.77	68.56	17.13		130.0	
10646-AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	33.64	114.31	37.91	9.30	60.0	± 9.6 %
		Y	23.55	105.17	34.72		60.0	
		Z	27.67	106.23	34.82		60.0	
10647-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	37.19	117.50	38.99	9.30	60.0	± 9.6 %
		Y	24.23	106.56	35.27		60.0	
		Z	30.06	108.83	35.73		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.64	63.81	10.49	0.00	150.0	± 9.6 %
		Y	0.69	62.54	10.27		150.0	
		Z	0.78	63.95	11.55		150.0	
10652-AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	4.50	69.16	17.52	2.23	80.0	± 9.6 %
		Y	4.34	67.91	16.91		80.0	
		Z	4.96	69.44	17.60		80.0	
10653-AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.93	68.28	17.56	2.23	80.0	± 9.6 %
		Y	4.86	67.43	17.09		80.0	
		Z	5.41	68.76	17.69		80.0	
10654-AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.87	67.93	17.56	2.23	80.0	± 9.6 %
		Y	4.80	67.15	17.10		80.0	
		Z	5.33	68.47	17.69		80.0	
10655-AAD	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.93	67.95	17.61	2.23	80.0	± 9.6 %
		Y	4.85	67.20	17.15		80.0	
		Z	5.38	68.52	17.74		80.0	
10658-AAA	Pulse Waveform (200Hz, 10%)	X	9.66	80.21	21.34	10.00	50.0	± 9.6 %
		Y	11.07	83.34	22.51		50.0	
		Z	10.71	80.68	21.82		50.0	
10659-AAA	Pulse Waveform (200Hz, 20%)	X	13.49	87.35	22.36	6.99	60.0	± 9.6 %
		Y	18.34	92.49	24.01		60.0	
		Z	11.90	84.00	21.57		60.0	

10660-AAA	Pulse Waveform (200Hz, 40%)	X	100.00	114.49	27.57	3.98	80.0	± 9.6 %
		Y	100.00	114.95	27.76		80.0	
		Z	31.02	99.08	24.42		80.0	
10661-AAA	Pulse Waveform (200Hz, 60%)	X	100.00	113.09	25.33	2.22	100.0	± 9.6 %
		Y	100.00	113.93	25.80		100.0	
		Z	100.00	114.43	26.71		100.0	
10662-AAA	Pulse Waveform (200Hz, 80%)	X	100.00	107.83	21.02	0.97	120.0	± 9.6 %
		Y	100.00	112.36	23.23		120.0	
		Z	100.00	116.99	25.88		120.0	

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



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 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **PC Test**

Certificate No: **EX3-7491_Jul18**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7491**

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

Calibration date: **July 20, 2018**

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

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

Calibration Equipment used (M&TE critical for calibration)

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

Calibrated by:	Name Michael Weber	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Function Technical Manager	Signature
			Issued: July 23, 2018
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			



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Accreditation No.: **SCS 0108**

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 Multilateral Agreement for the recognition of calibration certificates

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, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 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 E^2 -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:7491

Manufactured:	March 20, 2017
Repaired:	July 10, 2018
Calibrated:	July 20, 2018

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7491

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.56	0.55	0.49	$\pm 10.1 \%$
DCP (mV) ^B	99.1	99.7	100.8	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	150.4	$\pm 3.3 \%$
		Y	0.0	0.0	1.0		146.8	
		Z	0.0	0.0	1.0		158.3	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 ms.V^{-2}	T2 ms.V^{-1}	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	35.21	264.2	36.02	7.203	0.000	5.028	1.076	0.208	1.005
Y	43.10	332.1	37.48	6.569	0.184	5.070	0.501	0.436	1.008
Z	32.15	239.5	35.45	5.491	0.000	5.007	0.859	0.176	1.004

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:7491

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	10.48	10.48	10.48	0.55	0.85	± 12.0 %
835	41.5	0.90	10.10	10.10	10.10	0.53	0.80	± 12.0 %
1750	40.1	1.37	8.81	8.81	8.81	0.36	0.80	± 12.0 %
1900	40.0	1.40	8.48	8.48	8.48	0.30	0.87	± 12.0 %
2300	39.5	1.67	8.12	8.12	8.12	0.25	0.90	± 12.0 %
2450	39.2	1.80	7.67	7.67	7.67	0.33	0.84	± 12.0 %
2600	39.0	1.96	7.52	7.52	7.52	0.30	0.88	± 12.0 %
5250	35.9	4.71	5.62	5.62	5.62	0.40	1.80	± 13.1 %
5600	35.5	5.07	5.05	5.05	5.05	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.27	5.27	5.27	0.40	1.80	± 13.1 %

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

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

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7491

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^f	Conductivity (S/m) ^f	ConvF X	ConvF Y	ConvF Z	Alpha ^g	Depth ^g (mm)	Unc (k=2)
750	55.5	0.96	10.60	10.60	10.60	0.35	0.97	± 12.0 %
835	55.2	0.97	10.30	10.30	10.30	0.41	0.86	± 12.0 %
1750	53.4	1.49	8.55	8.55	8.55	0.35	0.87	± 12.0 %
1900	53.3	1.52	8.19	8.19	8.19	0.36	0.85	± 12.0 %
2300	52.9	1.81	7.91	7.91	7.91	0.34	0.87	± 12.0 %
2450	52.7	1.95	7.74	7.74	7.74	0.34	0.85	± 12.0 %
2600	52.5	2.16	7.44	7.44	7.44	0.25	0.92	± 12.0 %
5250	48.9	5.36	4.82	4.82	4.82	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.19	4.19	4.19	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.37	4.37	4.37	0.50	1.90	± 13.1 %

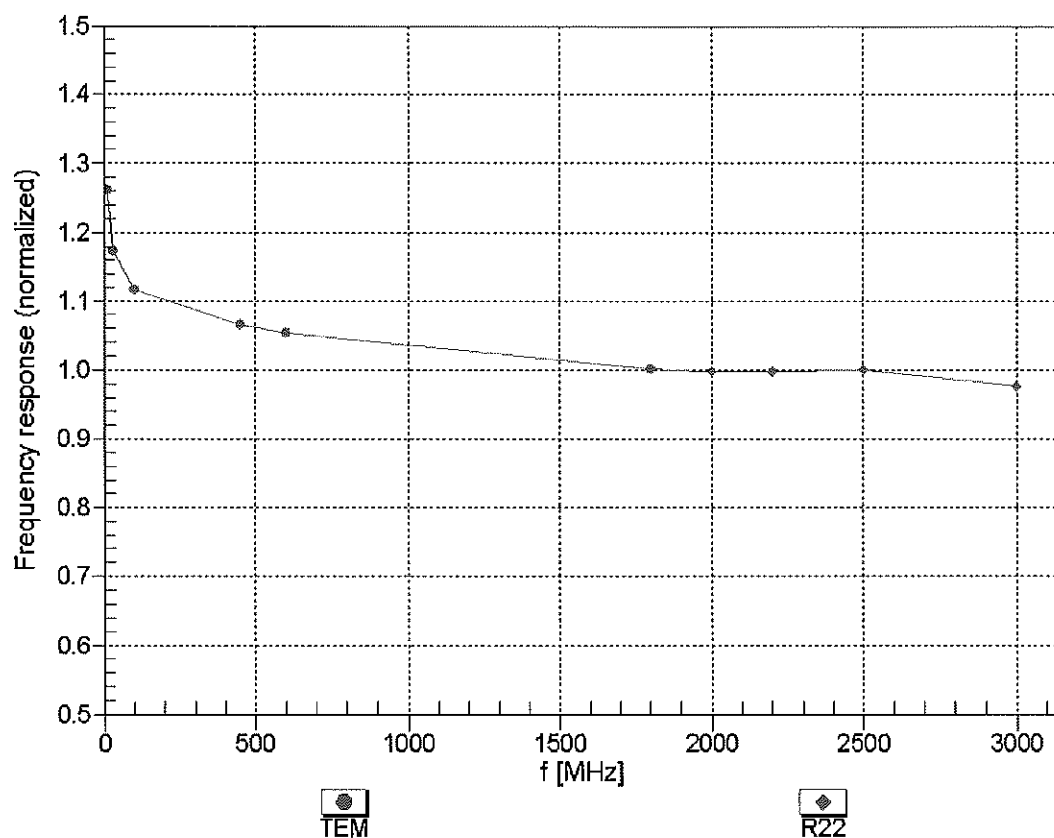
^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is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

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

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

Frequency Response of E-Field

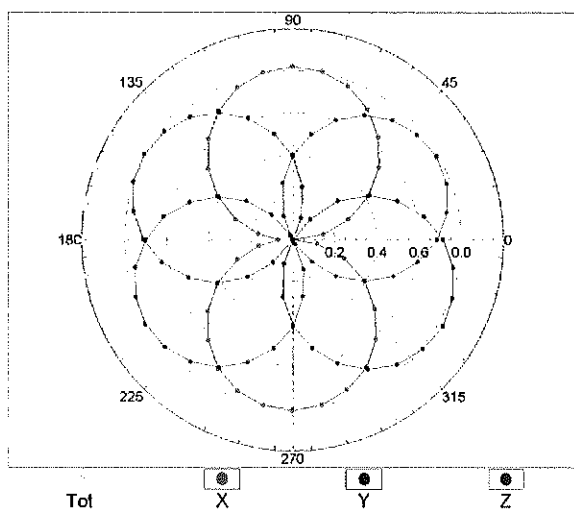
(TEM-Cell:ifi110 EXX, Waveguide: R22)



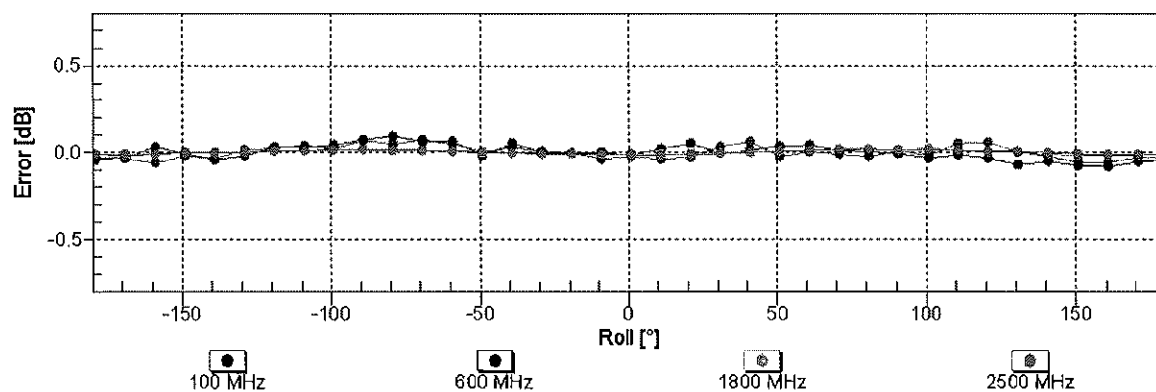
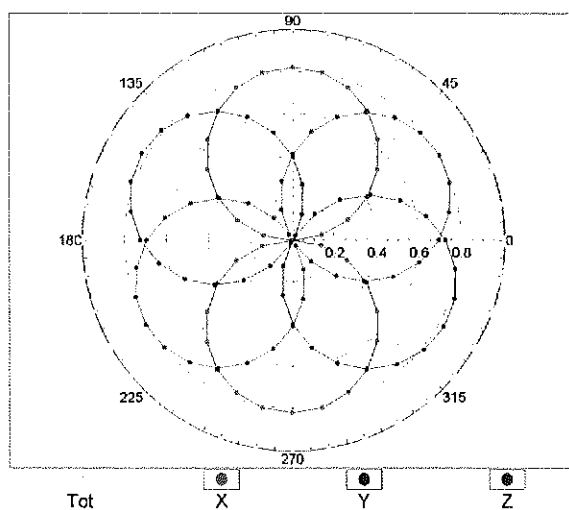
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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

f=600 MHz,TEM



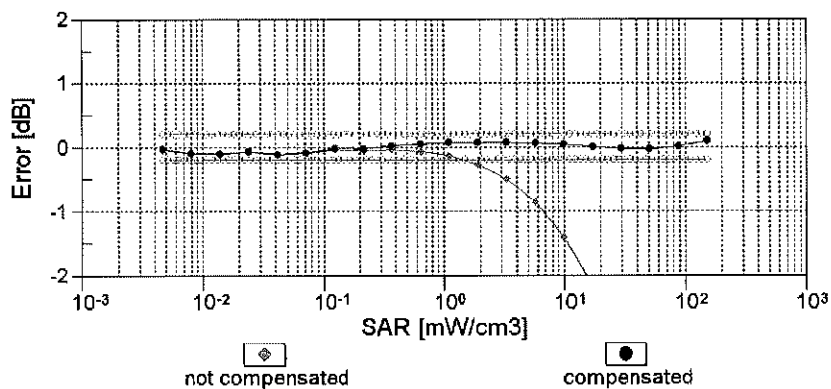
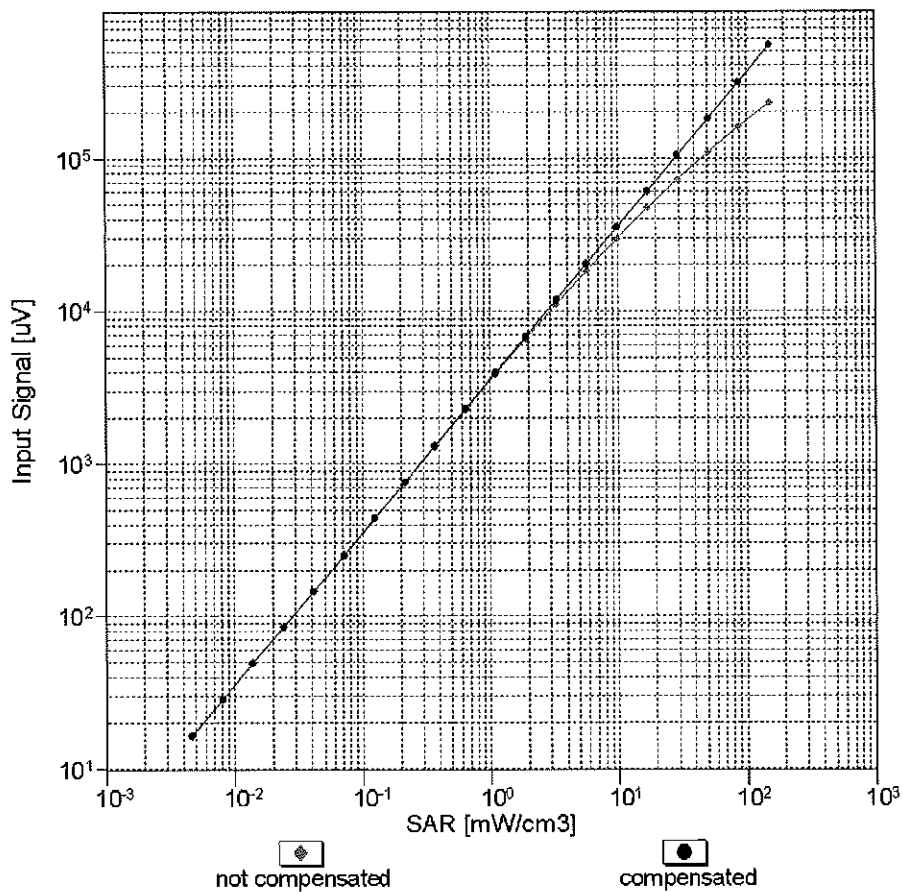
f=1800 MHz,R22



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

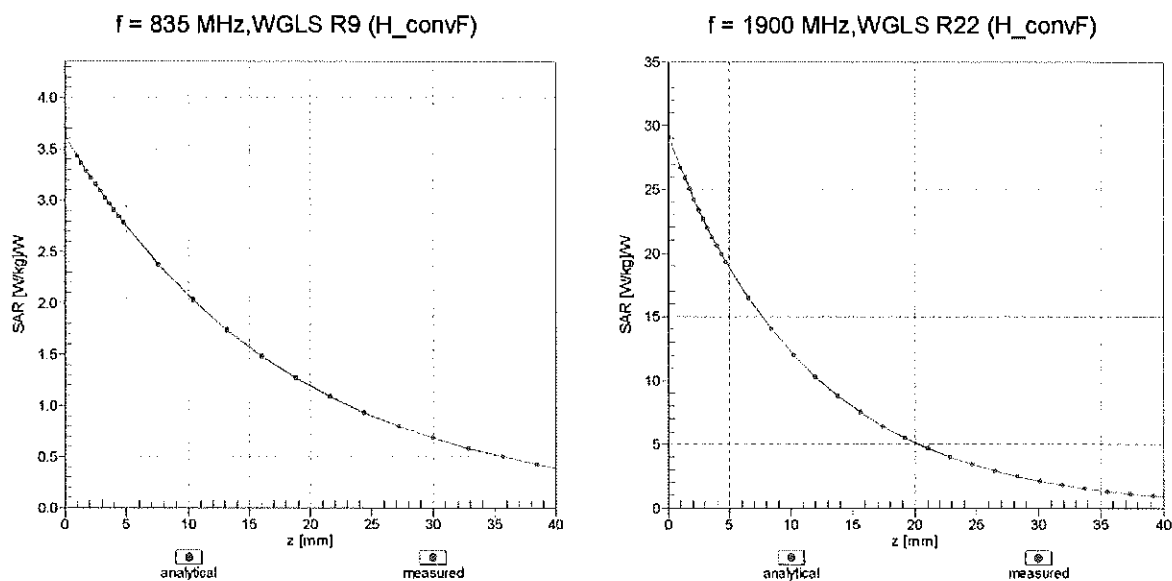
Dynamic Range f(SAR_{head})

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



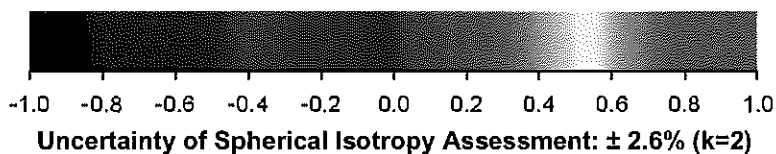
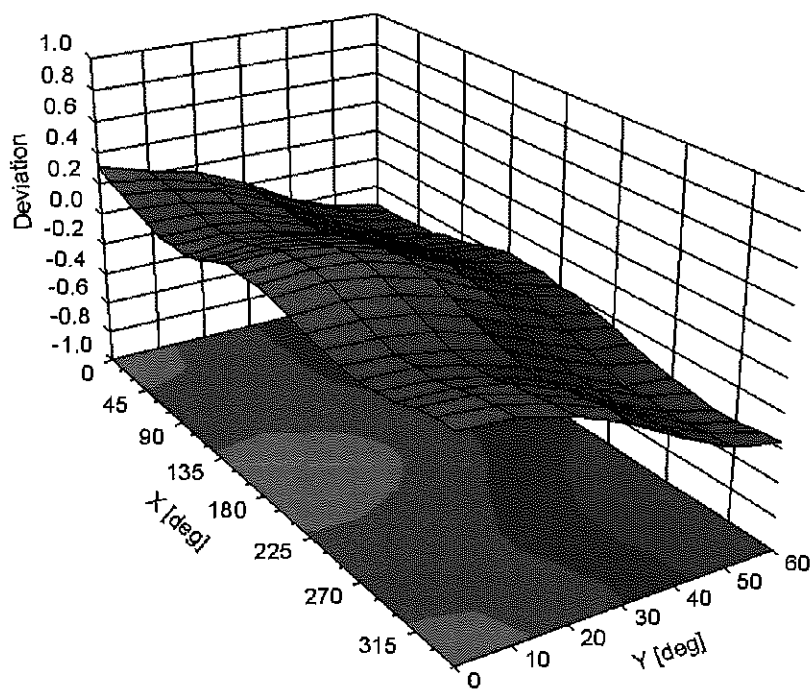
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$



DASY/EASY - Parameters of Probe: EX3DV4 - SN:7491

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	110.9
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB/μV	C	D dB	VR mV	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	150.4	± 3.3 %
		Y	0.00	0.00	1.00		146.8	
		Z	0.00	0.00	1.00		158.3	
10010-CAA	SAR Validation (Square, 100ms, 10ms)	X	1.34	61.83	7.07	10.00	20.0	± 9.6 %
		Y	1.58	62.93	8.08		20.0	
		Z	1.36	61.75	7.02		20.0	
10011-CAB	UMTS-FDD (WCDMA)	X	1.10	69.86	16.50	0.00	150.0	± 9.6 %
		Y	0.84	64.59	13.11		150.0	
		Z	0.95	67.18	14.87		150.0	
10012-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.13	64.17	15.58	0.41	150.0	± 9.6 %
		Y	1.05	62.41	14.09		150.0	
		Z	1.10	63.39	14.82		150.0	
10013-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.65	66.79	17.11	1.46	150.0	± 9.6 %
		Y	4.73	66.33	16.86		150.0	
		Z	4.57	66.64	16.86		150.0	
10021-DAC	GSM-FDD (TDMA, GMSK)	X	100.00	103.89	21.71	9.39	50.0	± 9.6 %
		Y	100.00	108.73	24.23		50.0	
		Z	26.33	90.02	18.11		50.0	
10023-DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	103.35	21.52	9.57	50.0	± 9.6 %
		Y	100.00	108.19	24.05		50.0	
		Z	8.05	78.49	14.82		50.0	
10024-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	103.76	20.63	6.56	60.0	± 9.6 %
		Y	100.00	108.89	23.12		60.0	
		Z	100.00	101.52	19.56		60.0	
10025-DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	7.71	95.52	39.83	12.57	50.0	± 9.6 %
		Y	3.82	69.58	26.35		50.0	
		Z	5.34	82.06	33.11		50.0	
10026-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	6.67	89.14	32.86	9.56	60.0	± 9.6 %
		Y	6.11	84.79	30.60		60.0	
		Z	5.40	83.14	30.03		60.0	
10027-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	105.72	20.77	4.80	80.0	± 9.6 %
		Y	100.00	109.47	22.55		80.0	
		Z	100.00	102.59	19.31		80.0	
10028-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	109.66	21.79	3.55	100.0	± 9.6 %
		Y	100.00	109.26	21.76		100.0	
		Z	100.00	105.24	19.82		100.0	
10029-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	4.10	76.83	26.30	7.80	80.0	± 9.6 %
		Y	4.05	75.26	25.26		80.0	
		Z	3.61	73.61	24.52		80.0	
10030-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	101.83	19.37	5.30	70.0	± 9.6 %
		Y	100.00	106.78	21.72		70.0	
		Z	100.00	99.08	18.07		70.0	
10031-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	99.29	16.49	1.88	100.0	± 9.6 %
		Y	0.43	63.88	6.46		100.0	
		Z	100.00	95.02	14.71		100.0	

10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	103.35	17.34	1.17	100.0	± 9.6 %
		Y	0.14	60.00	3.51		100.0	
		Z	100.00	98.56	15.49		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	15.94	99.69	25.70	5.30	70.0	± 9.6 %
		Y	8.86	93.04	24.94		70.0	
		Z	4.54	80.85	19.18		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	2.96	77.85	17.14	1.88	100.0	± 9.6 %
		Y	1.73	70.99	15.19		100.0	
		Z	1.45	68.86	12.96		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	1.93	73.49	15.25	1.17	100.0	± 9.6 %
		Y	1.24	67.47	13.23		100.0	
		Z	1.14	67.01	11.91		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	33.38	110.64	28.65	5.30	70.0	± 9.6 %
		Y	14.03	100.51	27.24		70.0	
		Z	5.92	84.73	20.56		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	2.49	75.90	16.43	1.88	100.0	± 9.6 %
		Y	1.61	70.25	14.86		100.0	
		Z	1.32	67.93	12.55		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	1.97	74.03	15.61	1.17	100.0	± 9.6 %
		Y	1.24	67.69	13.45		100.0	
		Z	1.14	67.23	12.15		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	1.69	72.14	14.31	0.00	150.0	± 9.6 %
		Y	1.13	65.88	11.78		150.0	
		Z	1.05	66.64	11.42		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	99.80	100.56	19.56	7.78	50.0	± 9.6 %
		Y	100.00	104.61	21.59		50.0	
		Z	2.99	70.61	11.28		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	110.68	3.82	0.00	150.0	± 9.6 %
		Y	0.02	125.31	15.46		150.0	
		Z	0.00	100.18	3.88		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	5.03	70.28	13.19	13.80	25.0	± 9.6 %
		Y	19.60	86.32	19.47		25.0	
		Z	3.96	67.14	11.88		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	6.28	75.19	13.99	10.79	40.0	± 9.6 %
		Y	49.36	98.98	21.95		40.0	
		Z	4.01	70.23	12.03		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	100.00	119.24	30.27	9.03	50.0	± 9.6 %
		Y	79.13	119.42	31.62		50.0	
		Z	21.35	96.00	23.74		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	3.32	72.42	23.38	6.55	100.0	± 9.6 %
		Y	3.31	71.39	22.62		100.0	
		Z	3.02	70.13	22.02		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.13	65.02	16.09	0.61	110.0	± 9.6 %
		Y	1.05	63.09	14.54		110.0	
		Z	1.09	63.96	15.16		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	146.09	38.55	1.30	110.0	± 9.6 %
		Y	2.18	83.07	21.15		110.0	
		Z	2.56	86.95	23.01		110.0	

10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	2.12	78.72	22.19	2.04	110.0	± 9.6 %
		Y	1.64	72.98	19.41		110.0	
		Z	1.52	72.27	19.03		110.0	
10062-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.48	66.83	16.57	0.49	100.0	± 9.6 %
		Y	4.53	66.30	16.26		100.0	
		Z	4.39	66.67	16.33		100.0	
10063-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.48	66.91	16.66	0.72	100.0	± 9.6 %
		Y	4.54	66.38	16.35		100.0	
		Z	4.40	66.74	16.41		100.0	
10064-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.72	67.10	16.85	0.86	100.0	± 9.6 %
		Y	4.82	66.65	16.60		100.0	
		Z	4.63	66.92	16.60		100.0	
10065-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.58	66.91	16.91	1.21	100.0	± 9.6 %
		Y	4.68	66.51	16.69		100.0	
		Z	4.49	66.71	16.64		100.0	
10066-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.59	66.89	17.05	1.46	100.0	± 9.6 %
		Y	4.69	66.53	16.86		100.0	
		Z	4.49	66.66	16.76		100.0	
10067-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	4.87	67.15	17.52	2.04	100.0	± 9.6 %
		Y	4.98	66.75	17.34		100.0	
		Z	4.76	66.93	17.23		100.0	
10068-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	4.88	67.02	17.67	2.55	100.0	± 9.6 %
		Y	5.01	66.72	17.53		100.0	
		Z	4.78	66.80	17.37		100.0	
10069-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	4.94	67.05	17.86	2.67	100.0	± 9.6 %
		Y	5.09	66.76	17.74		100.0	
		Z	4.83	66.81	17.55		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.73	66.83	17.38	1.99	100.0	± 9.6 %
		Y	4.81	66.40	17.17		100.0	
		Z	4.65	66.66	17.13		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.68	67.04	17.56	2.30	100.0	± 9.6 %
		Y	4.77	66.65	17.36		100.0	
		Z	4.58	66.82	17.27		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.72	67.18	17.88	2.83	100.0	± 9.6 %
		Y	4.81	66.77	17.68		100.0	
		Z	4.63	66.96	17.58		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.71	67.08	18.01	3.30	100.0	± 9.6 %
		Y	4.79	66.64	17.82		100.0	
		Z	4.63	66.89	17.72		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	4.72	67.05	18.25	3.82	90.0	± 9.6 %
		Y	4.81	66.68	18.10		90.0	
		Z	4.63	66.84	17.94		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	4.75	66.90	18.41	4.15	90.0	± 9.6 %
		Y	4.82	66.48	18.23		90.0	
		Z	4.67	66.71	18.11		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	4.77	66.98	18.52	4.30	90.0	± 9.6 %
		Y	4.85	66.54	18.33		90.0	
		Z	4.69	66.79	18.22		90.0	

10081-CAB	CDMA2000 (1xRTT, RC3)	X	0.70	65.48	10.90	0.00	150.0	± 9.6 %
		Y	0.59	62.19	9.27		150.0	
		Z	0.55	62.91	9.10		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	0.63	60.00	2.84	4.77	80.0	± 9.6 %
		Y	0.58	60.00	3.13		80.0	
		Z	20.99	63.47	2.92		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	103.79	20.66	6.56	60.0	± 9.6 %
		Y	100.00	109.00	23.19		60.0	
		Z	100.00	101.52	19.57		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.91	69.67	16.36	0.00	150.0	± 9.6 %
		Y	1.62	65.97	14.31		150.0	
		Z	1.77	68.37	15.43		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.88	69.64	16.36	0.00	150.0	± 9.6 %
		Y	1.59	65.90	14.26		150.0	
		Z	1.73	68.31	15.40		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	6.73	89.36	32.94	9.56	60.0	± 9.6 %
		Y	6.15	84.95	30.66		60.0	
		Z	5.44	83.31	30.09		60.0	
10100-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.08	70.94	17.19	0.00	150.0	± 9.6 %
		Y	2.81	68.58	15.67		150.0	
		Z	2.88	69.85	16.58		150.0	
10101-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.13	67.76	16.16	0.00	150.0	± 9.6 %
		Y	3.05	66.58	15.31		150.0	
		Z	3.04	67.27	15.79		150.0	
10102-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.23	67.73	16.24	0.00	150.0	± 9.6 %
		Y	3.16	66.61	15.44		150.0	
		Z	3.14	67.29	15.89		150.0	
10103-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	5.24	74.74	20.38	3.98	65.0	± 9.6 %
		Y	4.97	72.97	19.57		65.0	
		Z	4.85	73.48	19.68		65.0	
10104-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	5.14	72.01	19.90	3.98	65.0	± 9.6 %
		Y	5.15	71.24	19.54		65.0	
		Z	4.80	70.82	19.17		65.0	
10105-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	4.94	70.96	19.71	3.98	65.0	± 9.6 %
		Y	4.80	69.63	19.08		65.0	
		Z	4.76	70.37	19.26		65.0	
10108-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.66	70.35	17.07	0.00	150.0	± 9.6 %
		Y	2.44	67.86	15.47		150.0	
		Z	2.48	69.23	16.39		150.0	
10109-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.78	67.82	16.07	0.00	150.0	± 9.6 %
		Y	2.70	66.35	15.10		150.0	
		Z	2.68	67.26	15.62		150.0	
10110-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.15	69.80	16.67	0.00	150.0	± 9.6 %
		Y	1.95	66.88	14.89		150.0	
		Z	1.97	68.48	15.81		150.0	
10111-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.56	69.31	16.42	0.00	150.0	± 9.6 %
		Y	2.37	66.90	15.11		150.0	
		Z	2.41	68.50	15.76		150.0	

10112-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.91	67.86	16.13	0.00	150.0	± 9.6 %
		Y	2.82	66.42	15.21		150.0	
		Z	2.81	67.36	15.70		150.0	
10113-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.70	69.44	16.52	0.00	150.0	± 9.6 %
		Y	2.52	67.13	15.30		150.0	
		Z	2.55	68.68	15.89		150.0	
10114-CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	4.96	67.25	16.56	0.00	150.0	± 9.6 %
		Y	5.01	66.84	16.22		150.0	
		Z	4.89	67.13	16.39		150.0	
10115-CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.20	67.30	16.58	0.00	150.0	± 9.6 %
		Y	5.27	66.93	16.28		150.0	
		Z	5.12	67.16	16.41		150.0	
10116-CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.04	67.44	16.58	0.00	150.0	± 9.6 %
		Y	5.09	67.01	16.23		150.0	
		Z	4.96	67.28	16.40		150.0	
10117-CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	4.95	67.19	16.55	0.00	150.0	± 9.6 %
		Y	4.97	66.69	16.16		150.0	
		Z	4.87	67.03	16.37		150.0	
10118-CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.27	67.51	16.69	0.00	150.0	± 9.6 %
		Y	5.35	67.15	16.40		150.0	
		Z	5.19	67.35	16.51		150.0	
10119-CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.04	67.44	16.59	0.00	150.0	± 9.6 %
		Y	5.08	66.98	16.23		150.0	
		Z	4.97	67.30	16.42		150.0	
10140-CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.26	67.76	16.16	0.00	150.0	± 9.6 %
		Y	3.19	66.62	15.35		150.0	
		Z	3.16	67.32	15.80		150.0	
10141-CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.38	67.90	16.34	0.00	150.0	± 9.6 %
		Y	3.32	66.77	15.56		150.0	
		Z	3.29	67.50	16.00		150.0	
10142-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.93	70.04	16.11	0.00	150.0	± 9.6 %
		Y	1.69	66.50	14.20		150.0	
		Z	1.71	68.26	14.94		150.0	
10143-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.41	70.07	15.69	0.00	150.0	± 9.6 %
		Y	2.14	66.99	14.32		150.0	
		Z	2.16	68.55	14.60		150.0	
10144-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.01	66.59	13.46	0.00	150.0	± 9.6 %
		Y	1.96	65.02	12.83		150.0	
		Z	1.82	65.43	12.49		150.0	
10145-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	0.79	61.74	8.30	0.00	150.0	± 9.6 %
		Y	0.89	61.82	8.93		150.0	
		Z	0.67	60.49	7.04		150.0	
10146-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	1.02	60.90	6.96	0.00	150.0	± 9.6 %
		Y	1.41	62.85	9.13		150.0	
		Z	0.86	60.00	5.90		150.0	
10147-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	1.08	61.31	7.28	0.00	150.0	± 9.6 %
		Y	1.52	63.66	9.67		150.0	
		Z	0.87	60.00	5.96		150.0	

10149-CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.79	67.89	16.12	0.00	150.0	± 9.6 %
		Y	2.70	66.41	15.15		150.0	
		Z	2.69	67.33	15.67		150.0	
10150-CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	2.92	67.92	16.18	0.00	150.0	± 9.6 %
		Y	2.83	66.48	15.25		150.0	
		Z	2.81	67.42	15.75		150.0	
10151-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	5.50	77.63	21.63	3.98	65.0	± 9.6 %
		Y	5.18	75.55	20.75		65.0	
		Z	4.81	75.35	20.47		65.0	
10152-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	4.69	72.03	19.49	3.98	65.0	± 9.6 %
		Y	4.67	71.10	19.15		65.0	
		Z	4.32	70.65	18.61		65.0	
10153-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	5.03	73.08	20.33	3.98	65.0	± 9.6 %
		Y	4.99	72.06	19.96		65.0	
		Z	4.65	71.74	19.48		65.0	
10154-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.19	70.20	16.91	0.00	150.0	± 9.6 %
		Y	1.98	67.20	15.11		150.0	
		Z	2.01	68.83	16.03		150.0	
10155-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.56	69.35	16.45	0.00	150.0	± 9.6 %
		Y	2.37	66.92	15.13		150.0	
		Z	2.42	68.55	15.79		150.0	
10156-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.76	69.95	15.59	0.00	150.0	± 9.6 %
		Y	1.51	66.15	13.66		150.0	
		Z	1.51	67.73	14.15		150.0	
10157-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	1.82	66.90	13.17	0.00	150.0	± 9.6 %
		Y	1.75	65.08	12.50		150.0	
		Z	1.60	65.31	11.95		150.0	
10158-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.71	69.53	16.58	0.00	150.0	± 9.6 %
		Y	2.53	67.19	15.35		150.0	
		Z	2.57	68.78	15.96		150.0	
10159-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	1.91	67.25	13.38	0.00	150.0	± 9.6 %
		Y	1.83	65.40	12.72		150.0	
		Z	1.66	65.56	12.11		150.0	
10160-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.68	69.59	16.82	0.00	150.0	± 9.6 %
		Y	2.52	67.43	15.45		150.0	
		Z	2.53	68.66	16.19		150.0	
10161-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.81	67.92	16.07	0.00	150.0	± 9.6 %
		Y	2.72	66.39	15.12		150.0	
		Z	2.70	67.39	15.59		150.0	
10162-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	2.92	68.14	16.20	0.00	150.0	± 9.6 %
		Y	2.83	66.59	15.27		150.0	
		Z	2.81	67.63	15.75		150.0	
10166-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.26	69.74	19.41	3.01	150.0	± 9.6 %
		Y	3.39	68.99	18.81		150.0	
		Z	3.02	68.53	18.69		150.0	
10167-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.01	73.35	20.11	3.01	150.0	± 9.6 %
		Y	4.09	71.71	19.17		150.0	
		Z	3.52	71.40	19.14		150.0	

10168-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.59	76.27	21.75	3.01	150.0	± 9.6 %
		Y	4.58	74.20	20.63		150.0	
		Z	3.97	74.08	20.73		150.0	
10169-CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.66	68.45	18.86	3.01	150.0	± 9.6 %
		Y	2.77	67.93	18.32		150.0	
		Z	2.45	66.96	17.96		150.0	
10170-CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	3.66	75.27	21.65	3.01	150.0	± 9.6 %
		Y	3.69	73.46	20.56		150.0	
		Z	3.08	72.31	20.27		150.0	
10171-AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	2.97	70.84	18.68	3.01	150.0	± 9.6 %
		Y	3.04	69.43	17.75		150.0	
		Z	2.56	68.54	17.49		150.0	
10172-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	4.18	82.75	26.36	6.02	65.0	± 9.6 %
		Y	4.30	80.68	25.32		65.0	
		Z	3.13	76.88	23.63		65.0	
10173-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	9.86	96.13	28.68	6.02	65.0	± 9.6 %
		Y	9.48	92.84	27.67		65.0	
		Z	4.73	83.11	23.98		65.0	
10174-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	6.74	88.25	25.46	6.02	65.0	± 9.6 %
		Y	6.71	85.70	24.69		65.0	
		Z	4.01	79.63	22.09		65.0	
10175-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.63	68.18	18.63	3.01	150.0	± 9.6 %
		Y	2.74	67.64	18.08		150.0	
		Z	2.43	66.71	17.74		150.0	
10176-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.67	75.30	21.67	3.01	150.0	± 9.6 %
		Y	3.70	73.49	20.57		150.0	
		Z	3.09	72.34	20.28		150.0	
10177-CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.65	68.30	18.70	3.01	150.0	± 9.6 %
		Y	2.76	67.77	18.17		150.0	
		Z	2.44	66.81	17.80		150.0	
10178-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	3.64	75.14	21.58	3.01	150.0	± 9.6 %
		Y	3.66	73.30	20.46		150.0	
		Z	3.07	72.22	20.21		150.0	
10179-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.29	72.97	20.05	3.01	150.0	± 9.6 %
		Y	3.33	71.30	19.01		150.0	
		Z	2.79	70.34	18.76		150.0	
10180-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	2.96	70.81	18.65	3.01	150.0	± 9.6 %
		Y	3.03	69.37	17.71		150.0	
		Z	2.56	68.52	17.47		150.0	
10181-CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.65	68.29	18.70	3.01	150.0	± 9.6 %
		Y	2.76	67.76	18.16		150.0	
		Z	2.44	66.80	17.80		150.0	
10182-CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.64	75.12	21.57	3.01	150.0	± 9.6 %
		Y	3.66	73.28	20.45		150.0	
		Z	3.06	72.19	20.19		150.0	
10183-AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	2.96	70.78	18.63	3.01	150.0	± 9.6 %
		Y	3.03	69.35	17.70		150.0	
		Z	2.56	68.50	17.46		150.0	

10184-CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.65	68.32	18.72	3.01	150.0	± 9.6 %
		Y	2.76	67.80	18.18		150.0	
		Z	2.45	66.83	17.82		150.0	
10185-CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.66	75.19	21.61	3.01	150.0	± 9.6 %
		Y	3.68	73.35	20.49		150.0	
		Z	3.08	72.26	20.23		150.0	
10186-AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	2.97	70.85	18.67	3.01	150.0	± 9.6 %
		Y	3.04	69.41	17.73		150.0	
		Z	2.57	68.55	17.49		150.0	
10187-CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.67	68.40	18.80	3.01	150.0	± 9.6 %
		Y	2.77	67.86	18.25		150.0	
		Z	2.46	66.91	17.90		150.0	
10188-CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	3.77	75.83	21.98	3.01	150.0	± 9.6 %
		Y	3.79	73.98	20.86		150.0	
		Z	3.16	72.79	20.57		150.0	
10189-AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.04	71.27	18.95	3.01	150.0	± 9.6 %
		Y	3.10	69.80	18.00		150.0	
		Z	2.61	68.91	17.74		150.0	
10193-CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.36	66.94	16.27	0.00	150.0	± 9.6 %
		Y	4.38	66.23	15.84		150.0	
		Z	4.30	66.83	16.07		150.0	
10194-CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.51	67.17	16.41	0.00	150.0	± 9.6 %
		Y	4.54	66.52	15.98		150.0	
		Z	4.43	67.04	16.21		150.0	
10195-CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.54	67.18	16.42	0.00	150.0	± 9.6 %
		Y	4.58	66.56	16.00		150.0	
		Z	4.46	67.04	16.22		150.0	
10196-CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.35	66.93	16.26	0.00	150.0	± 9.6 %
		Y	4.38	66.27	15.85		150.0	
		Z	4.28	66.81	16.05		150.0	
10197-CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.51	67.17	16.41	0.00	150.0	± 9.6 %
		Y	4.55	66.54	15.99		150.0	
		Z	4.43	67.04	16.21		150.0	
10198-CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.53	67.18	16.42	0.00	150.0	± 9.6 %
		Y	4.58	66.57	16.01		150.0	
		Z	4.45	67.04	16.22		150.0	
10219-CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.30	66.98	16.24	0.00	150.0	± 9.6 %
		Y	4.33	66.28	15.81		150.0	
		Z	4.23	66.86	16.03		150.0	
10220-CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.50	67.13	16.40	0.00	150.0	± 9.6 %
		Y	4.55	66.51	15.98		150.0	
		Z	4.43	67.00	16.20		150.0	
10221-CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.55	67.12	16.41	0.00	150.0	± 9.6 %
		Y	4.59	66.51	16.00		150.0	
		Z	4.47	66.99	16.21		150.0	
10222-CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	4.92	67.18	16.53	0.00	150.0	± 9.6 %
		Y	4.95	66.69	16.15		150.0	
		Z	4.85	67.04	16.36		150.0	

10223-CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.18	67.36	16.63	0.00	150.0	± 9.6 %
		Y	5.25	66.97	16.32		150.0	
		Z	5.09	67.17	16.43		150.0	
10224-CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	4.96	67.29	16.51	0.00	150.0	± 9.6 %
		Y	4.98	66.79	16.13		150.0	
		Z	4.89	67.16	16.35		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.66	66.63	15.19	0.00	150.0	± 9.6 %
		Y	2.62	65.33	14.56		150.0	
		Z	2.57	66.18	14.66		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	10.77	97.88	29.33	6.02	65.0	± 9.6 %
		Y	10.19	94.28	28.24		65.0	
		Z	5.01	84.20	24.48		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	10.74	96.09	27.95	6.02	65.0	± 9.6 %
		Y	10.37	93.13	27.16		65.0	
		Z	4.96	83.01	23.31		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	4.87	86.06	27.65	6.02	65.0	± 9.6 %
		Y	5.45	85.87	27.38		65.0	
		Z	3.29	77.92	24.09		65.0	
10229-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	9.95	96.25	28.72	6.02	65.0	± 9.6 %
		Y	9.56	92.96	27.71		65.0	
		Z	4.76	83.20	24.02		65.0	
10230-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	9.77	94.37	27.34	6.02	65.0	± 9.6 %
		Y	9.64	91.75	26.64		65.0	
		Z	4.66	81.93	22.85		65.0	
10231-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	4.69	85.20	27.25	6.02	65.0	± 9.6 %
		Y	5.24	85.03	26.99		65.0	
		Z	3.19	77.30	23.76		65.0	
10232-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	9.93	96.23	28.72	6.02	65.0	± 9.6 %
		Y	9.54	92.93	27.70		65.0	
		Z	4.76	83.19	24.02		65.0	
10233-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	9.73	94.32	27.33	6.02	65.0	± 9.6 %
		Y	9.60	91.71	26.63		65.0	
		Z	4.65	81.89	22.84		65.0	
10234-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	4.55	84.53	26.87	6.02	65.0	± 9.6 %
		Y	5.09	84.33	26.61		65.0	
		Z	3.13	76.83	23.44		65.0	
10235-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	9.95	96.29	28.74	6.02	65.0	± 9.6 %
		Y	9.55	92.97	27.72		65.0	
		Z	4.76	83.21	24.03		65.0	
10236-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	9.91	94.59	27.40	6.02	65.0	± 9.6 %
		Y	9.74	91.91	26.69		65.0	
		Z	4.70	82.06	22.89		65.0	
10237-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	4.68	85.24	27.27	6.02	65.0	± 9.6 %
		Y	5.24	85.07	27.01		65.0	
		Z	3.19	77.31	23.77		65.0	
10238-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	9.90	96.21	28.71	6.02	65.0	± 9.6 %
		Y	9.52	92.90	27.69		65.0	
		Z	4.74	83.16	24.01		65.0	

10239-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	9.68	94.26	27.32	6.02	65.0	± 9.6 %
		Y	9.56	91.66	26.61		65.0	
		Z	4.63	81.85	22.83		65.0	
10240-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	4.67	85.21	27.26	6.02	65.0	± 9.6 %
		Y	5.23	85.02	26.99		65.0	
		Z	3.18	77.30	23.76		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	6.80	81.39	25.80	6.98	65.0	± 9.6 %
		Y	6.69	78.79	24.70		65.0	
		Z	5.79	78.45	24.38		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6.26	79.71	25.05	6.98	65.0	± 9.6 %
		Y	5.96	76.36	23.58		65.0	
		Z	5.52	77.59	23.96		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	4.99	75.34	24.14	6.98	65.0	± 9.6 %
		Y	4.91	72.91	22.91		65.0	
		Z	4.65	74.20	23.42		65.0	
10244-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	3.39	69.24	14.20	3.98	65.0	± 9.6 %
		Y	4.36	72.64	16.92		65.0	
		Z	2.62	66.00	12.07		65.0	
10245-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	3.29	68.57	13.83	3.98	65.0	± 9.6 %
		Y	4.24	71.91	16.54		65.0	
		Z	2.58	65.59	11.80		65.0	
10246-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	3.44	73.33	16.69	3.98	65.0	± 9.6 %
		Y	3.71	74.16	17.87		65.0	
		Z	2.50	68.87	14.20		65.0	
10247-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	3.59	70.57	16.25	3.98	65.0	± 9.6 %
		Y	3.77	70.80	17.09		65.0	
		Z	3.05	68.22	14.66		65.0	
10248-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	3.53	69.86	15.91	3.98	65.0	± 9.6 %
		Y	3.77	70.27	16.82		65.0	
		Z	3.03	67.66	14.38		65.0	
10249-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	5.15	79.98	20.81	3.98	65.0	± 9.6 %
		Y	4.72	77.98	20.57		65.0	
		Z	3.76	74.94	18.36		65.0	
10250-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	4.66	74.40	20.29	3.98	65.0	± 9.6 %
		Y	4.57	73.23	20.07		65.0	
		Z	4.18	72.55	19.13		65.0	
10251-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	4.41	72.16	18.86	3.98	65.0	± 9.6 %
		Y	4.43	71.37	18.81		65.0	
		Z	3.97	70.48	17.75		65.0	
10252-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	5.61	80.70	22.65	3.98	65.0	± 9.6 %
		Y	5.05	77.80	21.64		65.0	
		Z	4.58	77.18	20.94		65.0	
10253-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	4.62	71.66	19.21	3.98	65.0	± 9.6 %
		Y	4.60	70.68	18.91		65.0	
		Z	4.27	70.36	18.33		65.0	
10254-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	4.92	72.56	19.92	3.98	65.0	± 9.6 %
		Y	4.89	71.55	19.63		65.0	
		Z	4.55	71.27	19.06		65.0	

10255-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	5.21	76.84	21.45	3.98	65.0	± 9.6 %
		Y	4.93	74.79	20.63		65.0	
		Z	4.60	74.68	20.30		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.27	64.22	10.38	3.98	65.0	± 9.6 %
		Y	3.13	67.86	13.52		65.0	
		Z	1.86	62.36	8.79		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.23	63.73	10.01	3.98	65.0	± 9.6 %
		Y	3.04	67.13	13.05		65.0	
		Z	1.85	62.05	8.52		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	2.12	66.29	12.19	3.98	65.0	± 9.6 %
		Y	2.63	68.85	14.46		65.0	
		Z	1.69	63.73	10.31		65.0	
10259-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	4.04	72.27	17.85	3.98	65.0	± 9.6 %
		Y	4.10	71.83	18.23		65.0	
		Z	3.51	70.05	16.39		65.0	
10260-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	4.06	71.92	17.67	3.98	65.0	± 9.6 %
		Y	4.14	71.59	18.11		65.0	
		Z	3.54	69.80	16.26		65.0	
10261-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	5.08	79.44	21.23	3.98	65.0	± 9.6 %
		Y	4.62	77.05	20.68		65.0	
		Z	3.97	75.34	19.17		65.0	
10262-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	4.64	74.33	20.23	3.98	65.0	± 9.6 %
		Y	4.56	73.18	20.02		65.0	
		Z	4.16	72.47	19.07		65.0	
10263-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	4.40	72.13	18.85	3.98	65.0	± 9.6 %
		Y	4.42	71.34	18.80		65.0	
		Z	3.96	70.46	17.74		65.0	
10264-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	5.54	80.46	22.53	3.98	65.0	± 9.6 %
		Y	5.00	77.61	21.54		65.0	
		Z	4.54	76.98	20.83		65.0	
10265-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	4.68	72.03	19.49	3.98	65.0	± 9.6 %
		Y	4.67	71.10	19.16		65.0	
		Z	4.32	70.66	18.61		65.0	
10266-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	5.03	73.07	20.32	3.98	65.0	± 9.6 %
		Y	4.99	72.05	19.95		65.0	
		Z	4.65	71.73	19.47		65.0	
10267-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	5.49	77.58	21.60	3.98	65.0	± 9.6 %
		Y	5.17	75.51	20.73		65.0	
		Z	4.81	75.30	20.45		65.0	
10268-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	5.31	72.01	19.97	3.98	65.0	± 9.6 %
		Y	5.31	71.19	19.61		65.0	
		Z	4.98	70.92	19.27		65.0	
10269-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	5.33	71.64	19.83	3.98	65.0	± 9.6 %
		Y	5.32	70.82	19.49		65.0	
		Z	5.01	70.63	19.17		65.0	
10270-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	5.42	74.57	20.50	3.98	65.0	± 9.6 %
		Y	5.27	73.21	19.87		65.0	
		Z	4.97	73.14	19.70		65.0	

10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.53	67.41	15.35	0.00	150.0	± 9.6 %
		Y	2.41	65.60	14.41		150.0	
		Z	2.42	66.84	14.77		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.65	69.68	16.30	0.00	150.0	± 9.6 %
		Y	1.38	65.75	13.95		150.0	
		Z	1.48	67.93	15.18		150.0	
10277-CAA	PHS (QPSK)	X	1.26	58.91	4.09	9.03	50.0	± 9.6 %
		Y	1.56	59.91	5.41		50.0	
		Z	1.20	58.49	3.63		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	2.42	64.72	10.06	9.03	50.0	± 9.6 %
		Y	3.46	69.25	13.34		50.0	
		Z	2.18	63.34	8.95		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	2.50	65.01	10.28	9.03	50.0	± 9.6 %
		Y	3.59	69.64	13.59		50.0	
		Z	2.24	63.55	9.13		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	1.10	66.98	11.77	0.00	150.0	± 9.6 %
		Y	0.97	64.13	10.63		150.0	
		Z	0.82	63.94	9.79		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	0.68	65.20	10.74	0.00	150.0	± 9.6 %
		Y	0.58	62.08	9.19		150.0	
		Z	0.54	62.76	9.00		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	1.41	74.35	15.09	0.00	150.0	± 9.6 %
		Y	0.64	63.89	10.50		150.0	
		Z	0.74	66.77	11.39		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	29.38	111.39	26.24	0.00	150.0	± 9.6 %
		Y	0.83	66.81	12.42		150.0	
		Z	1.83	77.13	16.03		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	22.91	98.36	26.23	9.03	50.0	± 9.6 %
		Y	12.18	90.45	25.14		50.0	
		Z	17.79	92.67	23.76		50.0	
10297-AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.67	70.47	17.15	0.00	150.0	± 9.6 %
		Y	2.45	67.95	15.53		150.0	
		Z	2.49	69.33	16.47		150.0	
10298-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.24	66.33	12.26	0.00	150.0	± 9.6 %
		Y	1.18	64.26	11.46		150.0	
		Z	1.02	64.03	10.60		150.0	
10299-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	1.64	64.98	10.49	0.00	150.0	± 9.6 %
		Y	2.00	66.27	12.01		150.0	
		Z	1.26	62.57	8.71		150.0	
10300-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.26	61.78	8.09	0.00	150.0	± 9.6 %
		Y	1.59	63.07	9.68		150.0	
		Z	1.05	60.58	6.91		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.39	65.54	17.37	4.17	50.0	± 9.6 %
		Y	4.53	65.00	17.08		50.0	
		Z	4.11	64.57	16.69		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	4.79	65.79	17.90	4.96	50.0	± 9.6 %
		Y	4.96	65.41	17.67		50.0	
		Z	4.63	65.39	17.52		50.0	

10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.53	65.36	17.66	4.96	50.0	± 9.6 %
		Y	4.70	64.98	17.46		50.0	
		Z	4.38	64.98	17.27		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.38	65.39	17.23	4.17	50.0	± 9.6 %
		Y	4.53	64.89	16.97		50.0	
		Z	4.23	65.02	16.87		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	3.76	65.93	18.22	6.02	35.0	± 9.6 %
		Y	4.01	66.05	18.49		35.0	
		Z	3.58	65.17	17.48		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.18	65.57	18.28	6.02	35.0	± 9.6 %
		Y	4.41	65.53	18.38		35.0	
		Z	4.02	65.02	17.72		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.04	65.50	18.13	6.02	35.0	± 9.6 %
		Y	4.28	65.55	18.28		35.0	
		Z	3.88	64.91	17.55		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.02	65.66	18.27	6.02	35.0	± 9.6 %
		Y	4.25	65.71	18.40		35.0	
		Z	3.85	65.05	17.67		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.20	65.65	18.38	6.02	35.0	± 9.6 %
		Y	4.45	65.69	18.51		35.0	
		Z	4.03	65.07	17.79		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.12	65.58	18.25	6.02	35.0	± 9.6 %
		Y	4.35	65.54	18.34		35.0	
		Z	3.96	65.03	17.69		35.0	
10311-AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.03	69.56	16.72	0.00	150.0	± 9.6 %
		Y	2.79	67.30	15.28		150.0	
		Z	2.85	68.56	16.14		150.0	
10313-AAA	iDEN 1:3	X	2.69	72.96	16.14	6.99	70.0	± 9.6 %
		Y	2.22	69.97	14.93		70.0	
		Z	2.03	69.45	14.60		70.0	
10314-AAA	iDEN 1:6	X	4.98	84.30	23.43	10.00	30.0	± 9.6 %
		Y	3.76	78.85	21.43		30.0	
		Z	3.48	78.21	21.09		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.05	64.29	15.62	0.17	150.0	± 9.6 %
		Y	0.97	62.31	13.94		150.0	
		Z	1.03	63.50	14.84		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.38	66.85	16.35	0.17	150.0	± 9.6 %
		Y	4.43	66.27	16.00		150.0	
		Z	4.30	66.68	16.12		150.0	
10317-AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.38	66.85	16.35	0.17	150.0	± 9.6 %
		Y	4.43	66.27	16.00		150.0	
		Z	4.30	66.68	16.12		150.0	
10400-AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.47	67.19	16.39	0.00	150.0	± 9.6 %
		Y	4.52	66.56	15.97		150.0	
		Z	4.37	67.01	16.17		150.0	
10401-AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.12	66.93	16.38	0.00	150.0	± 9.6 %
		Y	5.29	66.93	16.27		150.0	
		Z	5.04	66.77	16.19		150.0	

10402-AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.47	67.49	16.54	0.00	150.0	± 9.6 %
		Y	5.51	67.07	16.21		150.0	
		Z	5.41	67.37	16.39		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.10	66.98	11.77	0.00	115.0	± 9.6 %
		Y	0.97	64.13	10.63		115.0	
		Z	0.82	63.94	9.79		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.10	66.98	11.77	0.00	115.0	± 9.6 %
		Y	0.97	64.13	10.63		115.0	
		Z	0.82	63.94	9.79		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	116.47	27.13	0.00	100.0	± 9.6 %
		Y	29.77	103.98	25.46		100.0	
		Z	100.00	114.71	26.02		100.0	
10410-AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	126.17	31.03	3.23	80.0	± 9.6 %
		Y	87.88	124.76	31.39		80.0	
		Z	4.36	84.82	20.04		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.01	63.77	15.21	0.00	150.0	± 9.6 %
		Y	0.92	61.81	13.48		150.0	
		Z	0.99	63.12	14.51		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.36	66.92	16.34	0.00	150.0	± 9.6 %
		Y	4.38	66.26	15.92		150.0	
		Z	4.28	66.79	16.14		150.0	
10417-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.36	66.92	16.34	0.00	150.0	± 9.6 %
		Y	4.38	66.26	15.92		150.0	
		Z	4.28	66.79	16.14		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	X	4.36	67.14	16.41	0.00	150.0	± 9.6 %
		Y	4.37	66.43	15.94		150.0	
		Z	4.28	67.01	16.20		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	X	4.37	67.06	16.39	0.00	150.0	± 9.6 %
		Y	4.39	66.38	15.94		150.0	
		Z	4.30	66.93	16.18		150.0	
10422-AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.47	67.03	16.39	0.00	150.0	± 9.6 %
		Y	4.51	66.38	15.97		150.0	
		Z	4.40	66.91	16.20		150.0	
10423-AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.60	67.29	16.48	0.00	150.0	± 9.6 %
		Y	4.65	66.67	16.07		150.0	
		Z	4.51	67.15	16.28		150.0	
10424-AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.53	67.24	16.46	0.00	150.0	± 9.6 %
		Y	4.58	66.62	16.04		150.0	
		Z	4.45	67.09	16.25		150.0	
10425-AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.15	67.39	16.63	0.00	150.0	± 9.6 %
		Y	5.21	66.96	16.29		150.0	
		Z	5.07	67.22	16.44		150.0	
10426-AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.18	67.50	16.67	0.00	150.0	± 9.6 %
		Y	5.23	67.07	16.34		150.0	
		Z	5.09	67.33	16.49		150.0	

10427-AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.13	67.26	16.55	0.00	150.0	± 9.6 %
		Y	5.22	66.97	16.29		150.0	
		Z	5.06	67.12	16.38		150.0	
10430-AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.22	72.38	18.43	0.00	150.0	± 9.6 %
		Y	4.01	70.26	17.57		150.0	
		Z	4.13	72.22	18.07		150.0	
10431-AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	3.98	67.59	16.25	0.00	150.0	± 9.6 %
		Y	4.01	66.71	15.78		150.0	
		Z	3.88	67.37	15.95		150.0	
10432-AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.30	67.37	16.40	0.00	150.0	± 9.6 %
		Y	4.34	66.64	15.95		150.0	
		Z	4.21	67.21	16.16		150.0	
10433-AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.55	67.28	16.48	0.00	150.0	± 9.6 %
		Y	4.59	66.65	16.06		150.0	
		Z	4.47	67.13	16.28		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.35	73.32	18.24	0.00	150.0	± 9.6 %
		Y	4.05	70.87	17.35		150.0	
		Z	4.17	72.84	17.69		150.0	
10435-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	125.82	30.87	3.23	80.0	± 9.6 %
		Y	73.81	122.13	30.75		80.0	
		Z	4.08	83.85	19.66		80.0	
10447-AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.23	67.50	15.15	0.00	150.0	± 9.6 %
		Y	3.25	66.39	14.73		150.0	
		Z	3.08	66.97	14.58		150.0	
10448-AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.85	67.40	16.13	0.00	150.0	± 9.6 %
		Y	3.87	66.48	15.63		150.0	
		Z	3.75	67.17	15.83		150.0	
10449-AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.14	67.21	16.30	0.00	150.0	± 9.6 %
		Y	4.16	66.45	15.83		150.0	
		Z	4.06	67.04	16.07		150.0	
10450-AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.35	67.06	16.34	0.00	150.0	± 9.6 %
		Y	4.37	66.40	15.90		150.0	
		Z	4.28	66.91	16.14		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.03	67.26	14.38	0.00	150.0	± 9.6 %
		Y	3.08	66.30	14.14		150.0	
		Z	2.83	66.49	13.65		150.0	
10456-AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.07	67.88	16.76	0.00	150.0	± 9.6 %
		Y	6.13	67.63	16.53		150.0	
		Z	6.01	67.74	16.60		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.71	65.66	16.08	0.00	150.0	± 9.6 %
		Y	3.69	64.94	15.62		150.0	
		Z	3.67	65.60	15.88		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.75	71.45	16.82	0.00	150.0	± 9.6 %
		Y	3.64	69.80	16.44		150.0	
		Z	3.40	70.10	15.76		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.81	69.03	17.82	0.00	150.0	± 9.6 %
		Y	4.90	68.30	17.81		150.0	
		Z	4.64	68.70	17.34		150.0	

10460-AAA	UMTS-FDD (WCDMA, AMR)	X	1.03	71.85	17.93	0.00	150.0	± 9.6 %
		Y	0.71	64.78	13.50		150.0	
		Z	0.86	68.25	15.84		150.0	
10461-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	131.71	33.64	3.29	80.0	± 9.6 %
		Y	32.60	114.44	30.12		80.0	
		Z	1.88	75.83	18.17		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.65	60.00	7.39	3.23	80.0	± 9.6 %
		Y	1.20	63.97	10.37		80.0	
		Z	0.61	60.00	6.84		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.68	60.00	6.65	3.23	80.0	± 9.6 %
		Y	0.82	60.05	7.89		80.0	
		Z	0.64	60.00	6.09		80.0	
10464-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	127.54	31.55	3.23	80.0	± 9.6 %
		Y	24.98	108.46	27.80		80.0	
		Z	1.39	71.68	15.85		80.0	
10465-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.66	60.00	7.31	3.23	80.0	± 9.6 %
		Y	1.08	62.87	9.80		80.0	
		Z	0.61	60.00	6.76		80.0	
10466-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.68	60.00	6.60	3.23	80.0	± 9.6 %
		Y	0.81	60.00	7.80		80.0	
		Z	0.65	60.00	6.05		80.0	
10467-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.04	31.77	3.23	80.0	± 9.6 %
		Y	33.02	112.47	28.81		80.0	
		Z	1.47	72.51	16.23		80.0	
10468-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.65	60.00	7.33	3.23	80.0	± 9.6 %
		Y	1.11	63.17	9.96		80.0	
		Z	0.61	60.00	6.79		80.0	
10469-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.68	60.00	6.60	3.23	80.0	± 9.6 %
		Y	0.81	60.00	7.80		80.0	
		Z	0.65	60.00	6.05		80.0	
10470-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.07	31.77	3.23	80.0	± 9.6 %
		Y	33.76	112.80	28.88		80.0	
		Z	1.47	72.53	16.23		80.0	
10471-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.65	60.00	7.32	3.23	80.0	± 9.6 %
		Y	1.10	63.10	9.91		80.0	
		Z	0.61	60.00	6.77		80.0	
10472-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.68	60.00	6.58	3.23	80.0	± 9.6 %
		Y	0.81	60.00	7.79		80.0	
		Z	0.65	60.00	6.03		80.0	
10473-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.02	31.75	3.23	80.0	± 9.6 %
		Y	33.47	112.65	28.84		80.0	
		Z	1.47	72.48	16.20		80.0	
10474-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.65	60.00	7.31	3.23	80.0	± 9.6 %
		Y	1.09	63.07	9.90		80.0	
		Z	0.61	60.00	6.77		80.0	
10475-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.68	60.00	6.58	3.23	80.0	± 9.6 %
		Y	0.81	60.00	7.79		80.0	
		Z	0.64	60.00	6.03		80.0	

10477-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.65	60.00	7.28	3.23	80.0	± 9.6 %
		Y	1.07	62.81	9.75		80.0	
		Z	0.61	60.00	6.74		80.0	
10478-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.68	60.00	6.57	3.23	80.0	± 9.6 %
		Y	0.81	60.00	7.78		80.0	
		Z	0.65	60.00	6.01		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	15.35	99.32	26.35	3.23	80.0	± 9.6 %
		Y	6.41	85.43	22.76		80.0	
		Z	4.06	80.14	19.99		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.37	78.01	17.06	3.23	80.0	± 9.6 %
		Y	5.35	77.64	17.96		80.0	
		Z	1.93	66.81	12.39		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.93	70.49	13.89	3.23	80.0	± 9.6 %
		Y	3.92	73.08	15.89		80.0	
		Z	1.44	63.40	10.40		80.0	
10482-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.84	67.62	13.79	2.23	80.0	± 9.6 %
		Y	1.79	66.37	13.87		80.0	
		Z	1.21	62.72	10.93		80.0	
10483-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.84	64.12	11.25	2.23	80.0	± 9.6 %
		Y	2.82	68.57	14.37		80.0	
		Z	1.24	60.24	8.65		80.0	
10484-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.77	63.42	10.91	2.23	80.0	± 9.6 %
		Y	2.67	67.61	13.95		80.0	
		Z	1.24	60.00	8.50		80.0	
10485-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.68	72.67	17.51	2.23	80.0	± 9.6 %
		Y	2.24	68.93	16.21		80.0	
		Z	1.88	67.68	14.90		80.0	
10486-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.33	66.95	14.11	2.23	80.0	± 9.6 %
		Y	2.33	66.00	14.21		80.0	
		Z	1.81	63.82	12.13		80.0	
10487-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.31	66.44	13.84	2.23	80.0	± 9.6 %
		Y	2.35	65.72	14.06		80.0	
		Z	1.82	63.51	11.93		80.0	
10488-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.93	71.87	18.48	2.23	80.0	± 9.6 %
		Y	2.67	69.13	17.21		80.0	
		Z	2.42	68.86	16.85		80.0	
10489-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.94	68.42	16.74	2.23	80.0	± 9.6 %
		Y	2.82	66.76	16.09		80.0	
		Z	2.61	66.69	15.60		80.0	
10490-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.01	68.24	16.65	2.23	80.0	± 9.6 %
		Y	2.92	66.70	16.07		80.0	
		Z	2.68	66.59	15.54		80.0	
10491-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.17	70.20	18.00	2.23	80.0	± 9.6 %
		Y	3.02	68.34	17.05		80.0	
		Z	2.77	68.13	16.83		80.0	
10492-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.27	67.59	16.86	2.23	80.0	± 9.6 %
		Y	3.23	66.40	16.32		80.0	
		Z	3.01	66.40	16.03		80.0	

10493-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.33	67.46	16.79	2.23	80.0	± 9.6 %
		Y	3.30	66.34	16.29		80.0	
		Z	3.07	66.32	15.98		80.0	
10494-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.41	71.59	18.50	2.23	80.0	± 9.6 %
		Y	3.20	69.50	17.42		80.0	
		Z	2.93	69.17	17.22		80.0	
10495-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.29	67.83	17.07	2.23	80.0	± 9.6 %
		Y	3.24	66.67	16.50		80.0	
		Z	3.03	66.60	16.25		80.0	
10496-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.37	67.61	17.00	2.23	80.0	± 9.6 %
		Y	3.33	66.52	16.46		80.0	
		Z	3.12	66.48	16.23		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	0.96	60.41	8.76	2.23	80.0	± 9.6 %
		Y	1.20	61.87	10.44		80.0	
		Z	0.89	60.00	7.88		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.10	60.00	7.20	2.23	80.0	± 9.6 %
		Y	1.22	60.00	8.28		80.0	
		Z	1.07	60.00	6.56		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.12	60.00	7.03	2.23	80.0	± 9.6 %
		Y	1.23	60.00	8.13		80.0	
		Z	1.09	60.00	6.39		80.0	
10500-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.77	72.31	17.90	2.23	80.0	± 9.6 %
		Y	2.40	68.91	16.59		80.0	
		Z	2.11	68.30	15.75		80.0	
10501-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.66	68.05	15.35	2.23	80.0	± 9.6 %
		Y	2.57	66.52	15.04		80.0	
		Z	2.19	65.43	13.68		80.0	
10502-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.69	67.80	15.15	2.23	80.0	± 9.6 %
		Y	2.62	66.43	14.93		80.0	
		Z	2.21	65.25	13.50		80.0	
10503-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.90	71.67	18.38	2.23	80.0	± 9.6 %
		Y	2.64	68.96	17.12		80.0	
		Z	2.39	68.69	16.76		80.0	
10504-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.92	68.32	16.67	2.23	80.0	± 9.6 %
		Y	2.81	66.67	16.03		80.0	
		Z	2.59	66.59	15.53		80.0	
10505-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.99	68.14	16.59	2.23	80.0	± 9.6 %
		Y	2.91	66.61	16.01		80.0	
		Z	2.67	66.51	15.48		80.0	
10506-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.39	71.45	18.43	2.23	80.0	± 9.6 %
		Y	3.18	69.38	17.35		80.0	
		Z	2.91	69.05	17.15		80.0	
10507-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.28	67.77	17.04	2.23	80.0	± 9.6 %
		Y	3.23	66.62	16.46		80.0	
		Z	3.02	66.54	16.22		80.0	

10508-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.36	67.55	16.95	2.23	80.0	± 9.6 %
		Y	3.32	66.46	16.42		80.0	
		Z	3.11	66.42	16.18		80.0	
10509-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.76	70.24	17.92	2.23	80.0	± 9.6 %
		Y	3.62	68.73	17.09		80.0	
		Z	3.37	68.53	16.98		80.0	
10510-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.74	67.43	17.05	2.23	80.0	± 9.6 %
		Y	3.73	66.59	16.58		80.0	
		Z	3.51	66.46	16.41		80.0	
10511-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.81	67.25	17.00	2.23	80.0	± 9.6 %
		Y	3.80	66.42	16.55		80.0	
		Z	3.59	66.36	16.39		80.0	
10512-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.88	71.59	18.36	2.23	80.0	± 9.6 %
		Y	3.66	69.84	17.42		80.0	
		Z	3.39	69.44	17.24		80.0	
10513-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.63	67.57	17.13	2.23	80.0	± 9.6 %
		Y	3.60	66.72	16.64		80.0	
		Z	3.40	66.51	16.45		80.0	
10514-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.67	67.22	17.02	2.23	80.0	± 9.6 %
		Y	3.65	66.41	16.56		80.0	
		Z	3.46	66.27	16.38		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.97	64.02	15.32	0.00	150.0	± 9.6 %
		Y	0.88	61.91	13.46		150.0	
		Z	0.95	63.29	14.56		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.90	79.01	21.42	0.00	150.0	± 9.6 %
		Y	0.42	65.04	13.17		150.0	
		Z	0.58	70.14	17.04		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.84	66.65	16.39	0.00	150.0	± 9.6 %
		Y	0.70	62.97	13.46		150.0	
		Z	0.79	64.99	15.11		150.0	
10518-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.35	67.03	16.34	0.00	150.0	± 9.6 %
		Y	4.37	66.34	15.89		150.0	
		Z	4.28	66.91	16.13		150.0	
10519-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.49	67.19	16.42	0.00	150.0	± 9.6 %
		Y	4.54	66.55	16.01		150.0	
		Z	4.41	67.05	16.22		150.0	
10520-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.35	67.13	16.34	0.00	150.0	± 9.6 %
		Y	4.39	66.48	15.91		150.0	
		Z	4.27	66.98	16.13		150.0	
10521-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.29	67.10	16.33	0.00	150.0	± 9.6 %
		Y	4.32	66.45	15.89		150.0	
		Z	4.20	66.93	16.10		150.0	
10522-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.33	67.22	16.42	0.00	150.0	± 9.6 %
		Y	4.38	66.59	16.00		150.0	
		Z	4.24	67.02	16.17		150.0	

10523-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.27	67.25	16.36	0.00	150.0	± 9.6 %
		Y	4.28	66.47	15.85		150.0	
		Z	4.19	67.11	16.15		150.0	
10524-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.29	67.20	16.42	0.00	150.0	± 9.6 %
		Y	4.33	66.50	15.96		150.0	
		Z	4.20	67.03	16.20		150.0	
10525-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.33	66.31	16.04	0.00	150.0	± 9.6 %
		Y	4.33	65.56	15.56		150.0	
		Z	4.25	66.17	15.84		150.0	
10526-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.45	66.58	16.15	0.00	150.0	± 9.6 %
		Y	4.48	65.89	15.70		150.0	
		Z	4.35	66.41	15.94		150.0	
10527-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.38	66.56	16.10	0.00	150.0	± 9.6 %
		Y	4.40	65.84	15.63		150.0	
		Z	4.29	66.39	15.88		150.0	
10528-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.39	66.57	16.13	0.00	150.0	± 9.6 %
		Y	4.42	65.86	15.66		150.0	
		Z	4.31	66.41	15.92		150.0	
10529-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.39	66.57	16.13	0.00	150.0	± 9.6 %
		Y	4.42	65.86	15.66		150.0	
		Z	4.31	66.41	15.92		150.0	
10531-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.36	66.59	16.11	0.00	150.0	± 9.6 %
		Y	4.39	65.91	15.65		150.0	
		Z	4.26	66.40	15.88		150.0	
10532-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.24	66.46	16.04	0.00	150.0	± 9.6 %
		Y	4.26	65.76	15.57		150.0	
		Z	4.15	66.27	15.81		150.0	
10533-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.40	66.66	16.14	0.00	150.0	± 9.6 %
		Y	4.42	65.92	15.66		150.0	
		Z	4.31	66.49	15.92		150.0	
10534-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	4.95	66.50	16.16	0.00	150.0	± 9.6 %
		Y	4.98	66.00	15.79		150.0	
		Z	4.87	66.36	15.99		150.0	
10535-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	4.99	66.63	16.23	0.00	150.0	± 9.6 %
		Y	5.04	66.19	15.88		150.0	
		Z	4.90	66.45	16.04		150.0	
10536-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	4.88	66.64	16.21	0.00	150.0	± 9.6 %
		Y	4.92	66.13	15.82		150.0	
		Z	4.80	66.46	16.02		150.0	
10537-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	4.95	66.65	16.21	0.00	150.0	± 9.6 %
		Y	4.97	66.09	15.81		150.0	
		Z	4.88	66.50	16.04		150.0	
10538-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.01	66.59	16.22	0.00	150.0	± 9.6 %
		Y	5.05	66.11	15.86		150.0	
		Z	4.92	66.42	16.04		150.0	
10540-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	4.94	66.54	16.22	0.00	150.0	± 9.6 %
		Y	4.98	66.09	15.87		150.0	
		Z	4.86	66.38	16.04		150.0	

10541-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	4.93	66.47	16.16	0.00	150.0	± 9.6 %
		Y	4.96	65.98	15.80		150.0	
		Z	4.85	66.33	15.99		150.0	
10542-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.08	66.56	16.23	0.00	150.0	± 9.6 %
		Y	5.12	66.08	15.87		150.0	
		Z	5.00	66.42	16.05		150.0	
10543-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.16	66.66	16.30	0.00	150.0	± 9.6 %
		Y	5.18	66.11	15.91		150.0	
		Z	5.08	66.53	16.14		150.0	
10544-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.29	66.55	16.14	0.00	150.0	± 9.6 %
		Y	5.31	66.13	15.80		150.0	
		Z	5.23	66.42	15.98		150.0	
10545-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.47	67.02	16.33	0.00	150.0	± 9.6 %
		Y	5.50	66.58	15.99		150.0	
		Z	5.39	66.84	16.16		150.0	
10546-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.33	66.68	16.17	0.00	150.0	± 9.6 %
		Y	5.36	66.28	15.85		150.0	
		Z	5.26	66.52	16.00		150.0	
10547-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.41	66.81	16.23	0.00	150.0	± 9.6 %
		Y	5.43	66.36	15.88		150.0	
		Z	5.35	66.69	16.09		150.0	
10548-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.55	67.42	16.52	0.00	150.0	± 9.6 %
		Y	5.65	67.22	16.29		150.0	
		Z	5.44	67.17	16.30		150.0	
10550-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.40	66.91	16.30	0.00	150.0	± 9.6 %
		Y	5.40	66.40	15.92		150.0	
		Z	5.33	66.78	16.15		150.0	
10551-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.32	66.64	16.13	0.00	150.0	± 9.6 %
		Y	5.38	66.34	15.85		150.0	
		Z	5.24	66.47	15.96		150.0	
10552-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.31	66.68	16.15	0.00	150.0	± 9.6 %
		Y	5.32	66.19	15.78		150.0	
		Z	5.24	66.55	16.00		150.0	
10553-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.35	66.62	16.15	0.00	150.0	± 9.6 %
		Y	5.39	66.20	15.82		150.0	
		Z	5.28	66.48	15.99		150.0	
10554-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.72	66.88	16.21	0.00	150.0	± 9.6 %
		Y	5.73	66.50	15.91		150.0	
		Z	5.66	66.74	16.06		150.0	
10555-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.81	67.10	16.31	0.00	150.0	± 9.6 %
		Y	5.85	66.79	16.04		150.0	
		Z	5.73	66.93	16.14		150.0	
10556-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	5.85	67.23	16.36	0.00	150.0	± 9.6 %
		Y	5.87	66.85	16.06		150.0	
		Z	5.78	67.07	16.20		150.0	
10557-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.80	67.08	16.31	0.00	150.0	± 9.6 %
		Y	5.83	66.72	16.01		150.0	
		Z	5.74	66.93	16.15		150.0	

10558-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.81	67.13	16.35	0.00	150.0	± 9.6 %
		Y	5.87	66.87	16.10		150.0	
		Z	5.72	66.92	16.16		150.0	
10560-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.83	67.06	16.35	0.00	150.0	± 9.6 %
		Y	5.87	66.73	16.07		150.0	
		Z	5.76	66.90	16.19		150.0	
10561-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.77	67.06	16.38	0.00	150.0	± 9.6 %
		Y	5.80	66.73	16.10		150.0	
		Z	5.69	66.88	16.21		150.0	
10562-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	5.81	67.21	16.46	0.00	150.0	± 9.6 %
		Y	5.88	66.99	16.24		150.0	
		Z	5.73	67.01	16.27		150.0	
10563-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	5.92	67.21	16.42	0.00	150.0	± 9.6 %
		Y	5.98	66.94	16.17		150.0	
		Z	5.84	67.02	16.25		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.66	67.03	16.46	0.46	150.0	± 9.6 %
		Y	4.70	66.43	16.07		150.0	
		Z	4.58	66.90	16.26		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	4.85	67.42	16.76	0.46	150.0	± 9.6 %
		Y	4.91	66.86	16.40		150.0	
		Z	4.77	67.30	16.57		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.69	67.24	16.57	0.46	150.0	± 9.6 %
		Y	4.75	66.68	16.20		150.0	
		Z	4.61	67.10	16.37		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.72	67.63	16.94	0.46	150.0	± 9.6 %
		Y	4.77	67.06	16.55		150.0	
		Z	4.64	67.49	16.74		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.58	66.97	16.31	0.46	150.0	± 9.6 %
		Y	4.65	66.46	15.97		150.0	
		Z	4.48	66.76	16.06		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.71	67.87	17.08	0.46	150.0	± 9.6 %
		Y	4.74	67.19	16.64		150.0	
		Z	4.64	67.76	16.90		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.71	67.66	16.97	0.46	150.0	± 9.6 %
		Y	4.76	67.04	16.57		150.0	
		Z	4.63	67.51	16.78		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.10	64.47	15.74	0.46	130.0	± 9.6 %
		Y	1.01	62.60	14.19		130.0	
		Z	1.06	63.56	14.88		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.11	65.05	16.12	0.46	130.0	± 9.6 %
		Y	1.02	63.01	14.47		130.0	
		Z	1.07	64.03	15.21		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	2.89	95.49	27.26	0.46	130.0	± 9.6 %
		Y	0.76	70.85	16.60		130.0	
		Z	1.03	76.59	20.03		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.21	71.26	19.43	0.46	130.0	± 9.6 %
		Y	0.98	66.68	16.40		130.0	
		Z	1.07	68.47	17.67		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.43	66.75	16.45	0.46	130.0	± 9.6 %
		Y	4.48	66.20	16.11		130.0	
		Z	4.35	66.59	16.21		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.46	66.96	16.54	0.46	130.0	± 9.6 %
		Y	4.50	66.37	16.18		130.0	
		Z	4.38	66.81	16.31		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.62	67.18	16.67	0.46	130.0	± 9.6 %
		Y	4.69	66.65	16.35		130.0	
		Z	4.53	67.03	16.45		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.52	67.32	16.78	0.46	130.0	± 9.6 %
		Y	4.58	66.77	16.43		130.0	
		Z	4.44	67.16	16.56		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.28	66.52	16.04	0.46	130.0	± 9.6 %
		Y	4.34	66.01	15.71		130.0	
		Z	4.18	66.30	15.78		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.31	66.57	16.06	0.46	130.0	± 9.6 %
		Y	4.39	66.08	15.75		130.0	
		Z	4.21	66.32	15.78		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.44	67.43	16.77	0.46	130.0	± 9.6 %
		Y	4.48	66.79	16.37		130.0	
		Z	4.35	67.27	16.54		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.21	66.30	15.83	0.46	130.0	± 9.6 %
		Y	4.28	65.79	15.50		130.0	
		Z	4.11	66.07	15.56		130.0	
10583-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.43	66.75	16.45	0.46	130.0	± 9.6 %
		Y	4.48	66.20	16.11		130.0	
		Z	4.35	66.59	16.21		130.0	
10584-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.46	66.96	16.54	0.46	130.0	± 9.6 %
		Y	4.50	66.37	16.18		130.0	
		Z	4.38	66.81	16.31		130.0	
10585-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.62	67.18	16.67	0.46	130.0	± 9.6 %
		Y	4.69	66.65	16.35		130.0	
		Z	4.53	67.03	16.45		130.0	
10586-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.52	67.32	16.78	0.46	130.0	± 9.6 %
		Y	4.58	66.77	16.43		130.0	
		Z	4.44	67.16	16.56		130.0	
10587-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.28	66.52	16.04	0.46	130.0	± 9.6 %
		Y	4.34	66.01	15.71		130.0	
		Z	4.18	66.30	15.78		130.0	
10588-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.31	66.57	16.06	0.46	130.0	± 9.6 %
		Y	4.39	66.08	15.75		130.0	
		Z	4.21	66.32	15.78		130.0	
10589-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.44	67.43	16.77	0.46	130.0	± 9.6 %
		Y	4.48	66.79	16.37		130.0	
		Z	4.35	67.27	16.54		130.0	
10590-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.21	66.30	15.83	0.46	130.0	± 9.6 %
		Y	4.28	65.79	15.50		130.0	
		Z	4.11	66.07	15.56		130.0	

10591-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.58	66.83	16.57	0.46	130.0	± 9.6 %
		Y	4.64	66.29	16.23		130.0	
		Z	4.51	66.70	16.35		130.0	
10592-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.70	67.12	16.69	0.46	130.0	± 9.6 %
		Y	4.77	66.60	16.36		130.0	
		Z	4.61	66.96	16.47		130.0	
10593-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.62	67.00	16.55	0.46	130.0	± 9.6 %
		Y	4.69	66.48	16.23		130.0	
		Z	4.53	66.84	16.32		130.0	
10594-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.67	67.17	16.71	0.46	130.0	± 9.6 %
		Y	4.74	66.66	16.39		130.0	
		Z	4.59	67.01	16.49		130.0	
10595-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.64	67.16	16.63	0.46	130.0	± 9.6 %
		Y	4.71	66.61	16.28		130.0	
		Z	4.55	67.00	16.40		130.0	
10596-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.57	67.12	16.62	0.46	130.0	± 9.6 %
		Y	4.64	66.59	16.28		130.0	
		Z	4.47	66.93	16.38		130.0	
10597-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.52	66.99	16.47	0.46	130.0	± 9.6 %
		Y	4.59	66.47	16.14		130.0	
		Z	4.43	66.80	16.23		130.0	
10598-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.51	67.21	16.73	0.46	130.0	± 9.6 %
		Y	4.57	66.69	16.40		130.0	
		Z	4.43	67.05	16.50		130.0	
10599-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.27	67.29	16.82	0.46	130.0	± 9.6 %
		Y	5.32	66.86	16.51		130.0	
		Z	5.20	67.15	16.64		130.0	
10600-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.37	67.66	16.98	0.46	130.0	± 9.6 %
		Y	5.46	67.32	16.71		130.0	
		Z	5.27	67.44	16.76		130.0	
10601-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.28	67.43	16.88	0.46	130.0	± 9.6 %
		Y	5.34	67.03	16.59		130.0	
		Z	5.21	67.35	16.73		130.0	
10602-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.36	67.45	16.81	0.46	130.0	± 9.6 %
		Y	5.47	67.18	16.58		130.0	
		Z	5.26	67.24	16.59		130.0	
10603-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.43	67.74	17.09	0.46	130.0	± 9.6 %
		Y	5.53	67.44	16.85		130.0	
		Z	5.32	67.49	16.86		130.0	
10604-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.30	67.33	16.86	0.46	130.0	± 9.6 %
		Y	5.41	67.10	16.66		130.0	
		Z	5.19	67.02	16.59		130.0	
10605-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.35	67.50	16.95	0.46	130.0	± 9.6 %
		Y	5.46	67.23	16.73		130.0	
		Z	5.26	67.28	16.73		130.0	
10606-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.15	66.97	16.54	0.46	130.0	± 9.6 %
		Y	5.18	66.48	16.20		130.0	
		Z	5.08	66.83	16.35		130.0	

10607-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.44	66.21	16.23	0.46	130.0	± 9.6 %
		Y	4.47	65.58	15.84		130.0	
		Z	4.36	66.06	16.01		130.0	
10608-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.57	66.53	16.37	0.46	130.0	± 9.6 %
		Y	4.63	65.95	16.00		130.0	
		Z	4.48	66.35	16.14		130.0	
10609-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.47	66.37	16.20	0.46	130.0	± 9.6 %
		Y	4.52	65.78	15.82		130.0	
		Z	4.38	66.18	15.96		130.0	
10610-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.52	66.54	16.36	0.46	130.0	± 9.6 %
		Y	4.57	65.94	15.99		130.0	
		Z	4.43	66.35	16.13		130.0	
10611-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.44	66.33	16.21	0.46	130.0	± 9.6 %
		Y	4.49	65.74	15.83		130.0	
		Z	4.34	66.13	15.96		130.0	
10612-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.43	66.46	16.25	0.46	130.0	± 9.6 %
		Y	4.49	65.88	15.87		130.0	
		Z	4.32	66.23	15.99		130.0	
10613-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.42	66.27	16.09	0.46	130.0	± 9.6 %
		Y	4.49	65.73	15.74		130.0	
		Z	4.32	66.05	15.83		130.0	
10614-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.39	66.50	16.34	0.46	130.0	± 9.6 %
		Y	4.44	65.92	15.97		130.0	
		Z	4.30	66.29	16.09		130.0	
10615-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.43	66.18	15.98	0.46	130.0	± 9.6 %
		Y	4.49	65.58	15.61		130.0	
		Z	4.33	65.97	15.73		130.0	
10616-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.08	66.47	16.39	0.46	130.0	± 9.6 %
		Y	5.13	66.06	16.09		130.0	
		Z	5.00	66.30	16.19		130.0	
10617-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.12	66.59	16.43	0.46	130.0	± 9.6 %
		Y	5.20	66.27	16.17		130.0	
		Z	5.02	66.38	16.22		130.0	
10618-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.03	66.66	16.48	0.46	130.0	± 9.6 %
		Y	5.09	66.27	16.18		130.0	
		Z	4.93	66.45	16.26		130.0	
10619-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.06	66.51	16.34	0.46	130.0	± 9.6 %
		Y	5.10	66.05	16.01		130.0	
		Z	4.98	66.36	16.15		130.0	
10620-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.12	66.49	16.37	0.46	130.0	± 9.6 %
		Y	5.19	66.09	16.08		130.0	
		Z	5.02	66.29	16.16		130.0	
10621-AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.12	66.58	16.54	0.46	130.0	± 9.6 %
		Y	5.20	66.23	16.27		130.0	
		Z	5.04	66.42	16.35		130.0	
10622-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.11	66.67	16.58	0.46	130.0	± 9.6 %
		Y	5.21	66.42	16.36		130.0	
		Z	5.03	66.49	16.38		130.0	

10623-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.01	66.24	16.23	0.46	130.0	± 9.6 %
		Y	5.08	65.89	15.96		130.0	
		Z	4.93	66.09	16.04		130.0	
10624-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.20	66.50	16.42	0.46	130.0	± 9.6 %
		Y	5.27	66.13	16.15		130.0	
		Z	5.12	66.34	16.23		130.0	
10625-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.28	66.62	16.54	0.46	130.0	± 9.6 %
		Y	5.52	66.78	16.53		130.0	
		Z	5.22	66.53	16.39		130.0	
10626-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.41	66.47	16.33	0.46	130.0	± 9.6 %
		Y	5.45	66.14	16.07		130.0	
		Z	5.34	66.32	16.15		130.0	
10627-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.64	67.10	16.62	0.46	130.0	± 9.6 %
		Y	5.70	66.78	16.36		130.0	
		Z	5.55	66.91	16.42		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.40	66.46	16.23	0.46	130.0	± 9.6 %
		Y	5.46	66.17	15.99		130.0	
		Z	5.33	66.28	16.04		130.0	
10629-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.52	66.68	16.34	0.46	130.0	± 9.6 %
		Y	5.55	66.28	16.04		130.0	
		Z	5.45	66.56	16.18		130.0	
10630-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.74	67.57	16.79	0.46	130.0	± 9.6 %
		Y	5.93	67.64	16.72		130.0	
		Z	5.60	67.21	16.51		130.0	
10631-AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.71	67.57	16.97	0.46	130.0	± 9.6 %
		Y	5.83	67.42	16.80		130.0	
		Z	5.61	67.33	16.76		130.0	
10632-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.65	67.29	16.86	0.46	130.0	± 9.6 %
		Y	5.67	66.86	16.54		130.0	
		Z	5.58	67.17	16.70		130.0	
10633-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.43	66.53	16.30	0.46	130.0	± 9.6 %
		Y	5.53	66.37	16.12		130.0	
		Z	5.34	66.35	16.11		130.0	
10634-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.46	66.73	16.45	0.46	130.0	± 9.6 %
		Y	5.51	66.37	16.17		130.0	
		Z	5.38	66.57	16.27		130.0	
10635-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.32	65.99	15.82	0.46	130.0	± 9.6 %
		Y	5.39	65.70	15.57		130.0	
		Z	5.23	65.80	15.61		130.0	
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.85	66.82	16.41	0.46	130.0	± 9.6 %
		Y	5.88	66.53	16.18		130.0	
		Z	5.78	66.67	16.24		130.0	
10637-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	5.96	67.13	16.56	0.46	130.0	± 9.6 %
		Y	6.04	66.92	16.36		130.0	
		Z	5.88	66.92	16.36		130.0	
10638-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	5.99	67.20	16.57	0.46	130.0	± 9.6 %
		Y	6.03	66.89	16.32		130.0	
		Z	5.93	67.07	16.41		130.0	

10639-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	5.94	67.06	16.54	0.46	130.0	± 9.6 %
		Y	6.00	66.80	16.32		130.0	
		Z	5.87	66.89	16.36		130.0	
10640-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	5.90	66.94	16.43	0.46	130.0	± 9.6 %
		Y	6.00	66.80	16.26		130.0	
		Z	5.80	66.71	16.22		130.0	
10641-AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.01	67.05	16.50	0.46	130.0	± 9.6 %
		Y	6.07	66.80	16.29		130.0	
		Z	5.93	66.87	16.32		130.0	
10642-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.02	67.21	16.75	0.46	130.0	± 9.6 %
		Y	6.09	66.98	16.54		130.0	
		Z	5.94	67.03	16.57		130.0	
10643-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	5.87	66.93	16.50	0.46	130.0	± 9.6 %
		Y	5.94	66.70	16.30		130.0	
		Z	5.79	66.72	16.30		130.0	
10644-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	5.92	67.10	16.61	0.46	130.0	± 9.6 %
		Y	6.04	67.02	16.47		130.0	
		Z	5.83	66.87	16.40		130.0	
10645-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.06	67.18	16.61	0.46	130.0	± 9.6 %
		Y	6.19	67.13	16.50		130.0	
		Z	5.97	66.97	16.42		130.0	
10646-AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	8.98	100.12	35.66	9.30	60.0	± 9.6 %
		Y	9.25	97.39	34.22		60.0	
		Z	5.51	87.84	30.74		60.0	
10647-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	7.44	96.05	34.38	9.30	60.0	± 9.6 %
		Y	8.05	94.62	33.38		60.0	
		Z	4.82	85.09	29.79		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.50	62.05	8.49	0.00	150.0	± 9.6 %
		Y	0.50	60.81	7.93		150.0	
		Z	0.43	60.79	7.32		150.0	
10652-AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.23	66.68	16.20	2.23	80.0	± 9.6 %
		Y	3.16	65.37	15.67		80.0	
		Z	3.03	65.81	15.50		80.0	
10653-AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.76	65.86	16.44	2.23	80.0	± 9.6 %
		Y	3.74	65.00	16.03		80.0	
		Z	3.61	65.32	15.97		80.0	
10654-AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	3.78	65.43	16.47	2.23	80.0	± 9.6 %
		Y	3.75	64.68	16.07		80.0	
		Z	3.66	64.95	16.04		80.0	
10655-AAD	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	3.85	65.34	16.50	2.23	80.0	± 9.6 %
		Y	3.82	64.66	16.12		80.0	
		Z	3.74	64.87	16.09		80.0	
10658-AAA	Pulse Waveform (200Hz, 10%)	X	3.77	70.26	12.03	10.00	50.0	± 9.6 %
		Y	12.27	83.59	17.52		50.0	
		Z	2.96	67.48	10.74		50.0	
10659-AAA	Pulse Waveform (200Hz, 20%)	X	8.98	79.72	14.13	6.99	60.0	± 9.6 %
		Y	100.00	104.15	21.31		60.0	
		Z	1.95	66.96	9.59		60.0	

10660-AAA	Pulse Waveform (200Hz, 40%)	X	100.00	97.77	17.15	3.98	80.0	± 9.6 %
		Y	100.00	100.91	18.60		80.0	
		Z	3.91	74.43	11.04		80.0	
10661-AAA	Pulse Waveform (200Hz, 60%)	X	100.00	96.14	15.60	2.22	100.0	± 9.6 %
		Y	100.00	92.62	14.21		100.0	
		Z	100.00	92.91	14.19		100.0	
10662-AAA	Pulse Waveform (200Hz, 80%)	X	99.96	83.24	9.71	0.97	120.0	± 9.6 %
		Y	17.02	60.55	1.46		120.0	
		Z	0.12	60.00	3.87		120.0	

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

APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

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

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

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)	750	835	1750	1900	2450	5200 - 5800
Tissue	Body	Body	Body	Body	Body	Body
Bactericide	See page 2	0.1				See page 3
DGBE			31	29.44	26.7	
HEC		1				
NaCl		0.94	0.2	0.39	0.1	
Sucrose		44.9				
Water		53.06	68.8	70.17	73.2	

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2 Composition / Information on ingredients

The Item is composed of the following ingredients:

H ₂ O	Water, 35 – 58%
Sucrose	Sugar, white, refined, 40 – 60%
NaCl	Sodium Chloride, 0 – 6%
Hydroxyethyl-cellulose	Medium Viscosity (CAS# 9004-62-0), <0.3%
Preventol-D7	Preservative: aqueous preparation, (CAS# 55965-84-9), containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyl-3(2H)-isothiazolone, 0.1 – 0.7%
Relevant for safety; Refer to the respective Safety Data Sheet*.	

Figure D-1
Composition of 750 MHz Body Tissue Equivalent Matter

Note: 750MHz liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

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Measurement Certificate / Material Test

Item Name	Body Tissue Simulating Liquid (MSL750V2)
Product No.	SL AAM 075 AA (Batch: 170608-1)
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	20-Jun-17
Operator	CL

Additional Information

TSL Density	1.212 g/cm ³
TSL Heat-capacity	3.006 kJ/(kg·K)

f [MHz]	Measured			Target		Diff. to Target [%]	
	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
600	57.3	25.02	0.84	56.1	0.95	2.2	-12.2
625	57.1	24.67	0.86	56.0	0.95	1.9	-10.1
650	56.8	24.32	0.88	55.9	0.96	1.6	-8.0
675	56.6	24.02	0.90	55.8	0.96	1.3	-5.8
700	56.3	23.71	0.92	55.7	0.96	1.1	-3.8
725	56.1	23.48	0.95	55.6	0.96	0.8	-1.5
750	55.9	23.25	0.97	55.5	0.96	0.6	0.7
775	55.6	23.04	0.99	55.4	0.97	0.3	2.9
800	55.4	22.82	1.02	55.3	0.97	0.1	5.0
825	55.2	22.65	1.04	55.2	0.98	-0.1	6.3
838	55.1	22.56	1.05	55.2	0.98	-0.3	6.9
850	54.9	22.47	1.06	55.2	0.99	-0.4	7.5
875	54.7	22.34	1.09	55.1	1.02	-0.7	6.7
900	54.5	22.21	1.11	55.0	1.05	-0.9	5.9
925	54.3	22.08	1.14	55.0	1.06	-1.3	6.9
950	54.1	21.95	1.16	54.9	1.08	-1.6	7.9
975	53.8	21.86	1.19	54.9	1.09	-1.9	9.1
1000	53.6	21.76	1.21	54.8	1.10	-2.2	10.2

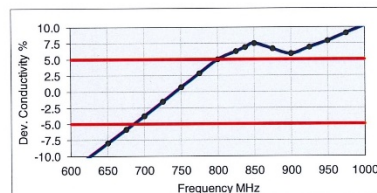
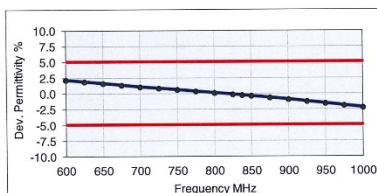


Figure D-2
750 MHz Body Tissue Equivalent Matter

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3 Composition / Information on ingredients

The Item is composed of the following ingredients:

Water	60 – 80%
Esters, Emulsifiers, Inhibitors	20 – 40%
Sodium salt	0 – 1.5%

Figure D-3
Composition of 3.5 – 5 GHz Body Tissue Equivalent Matter

Note: 3.5 – 5 GHz Body liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

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Measurement Certificate / Material Test

Item Name: Body Tissue Simulating Liquid (MBBL3500-5800V5)
Product No.: SL AAM 501 EA (Batch: 180423-2)
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 KDB 865664 compliance standard.

Test Condition

Ambient: Environment temperatur (22 ± 3)°C and humidity < 70%.
TSL Temperature: 22°C
Test Date: 25-Apr-18
Operator: WM

Additional Information

TSL Density: 0.996 g/cm³
TSL Heat-capacity: 3.765 kJ/(kg*K)

	Measured			Target			Diff.to Target [%]	
f [MHz]	e'	e''	sigma	eps	sigma	delta-eps	delta-sigma	
3400	50.7	16.46	3.11	51.5	3.20	-1.5	-2.7	
3500	50.5	16.50	3.21	51.3	3.31	-1.6	-3.1	
3600	50.4	16.56	3.32	51.2	3.43	-1.5	-3.2	
3700	50.3	16.63	3.42	51.1	3.55	-1.5	-3.6	
3800	50.2	16.72	3.53	50.9	3.66	-1.4	-3.7	
3900	50.1	16.81	3.65	50.8	3.78	-1.3	-3.5	
4000	49.9	16.93	3.77	50.6	3.90	-1.5	-3.3	
4100	49.8	17.05	3.89	50.5	4.01	-1.4	-3.1	
4200	49.6	17.18	4.01	50.4	4.13	-1.5	-2.9	
4300	49.5	17.32	4.14	50.2	4.25	-1.5	-2.5	
4400	49.3	17.46	4.27	50.1	4.37	-1.6	-2.2	
4500	49.2	17.59	4.40	50.0	4.48	-1.5	-1.8	
4600	49.0	17.73	4.54	49.8	4.60	-1.7	-1.3	
4700	48.8	17.86	4.67	49.7	4.72	-1.8	-1.0	
4800	48.6	17.99	4.80	49.6	4.83	-1.9	-0.7	
4850	48.5	18.05	4.87	49.5	4.89	-2.0	-0.4	
4900	48.4	18.11	4.94	49.4	4.95	-2.1	-0.2	
4950	48.3	18.17	5.00	49.4	5.01	-2.1	-0.1	
5000	48.2	18.23	5.07	49.3	5.07	-2.2	0.1	
5050	48.1	18.29	5.14	49.2	5.12	-2.3	0.3	
5100	48.0	18.34	5.20	49.2	5.18	-2.3	0.3	
5150	47.9	18.39	5.27	49.1	5.24	-2.4	0.6	
5200	47.9	18.45	5.34	49.0	5.30	-2.3	0.8	
5250	47.8	18.50	5.40	48.9	5.36	-2.3	0.8	
5300	47.7	18.56	5.47	48.9	5.42	-2.4	1.0	
5350	47.6	18.61	5.54	48.8	5.47	-2.5	1.2	
5400	47.5	18.67	5.61	48.7	5.53	-2.5	1.4	
5450	47.4	18.72	5.68	48.7	5.59	-2.6	1.6	
5500	47.3	18.77	5.74	48.6	5.65	-2.7	1.8	
5550	47.2	18.83	5.81	48.5	5.71	-2.8	1.8	
5600	47.1	18.88	5.88	48.5	5.77	-2.8	2.0	
5650	47.1	18.93	5.95	48.4	5.82	-2.7	2.1	
5700	47.0	18.99	6.02	48.3	5.88	-2.8	2.3	
5750	46.9	19.04	6.09	48.3	5.94	-2.8	2.5	
5800	46.8	19.10	6.16	48.2	6.00	-2.9	2.7	
5850	46.7	19.16	6.23	48.1	6.06	-3.0	2.8	
5900	46.6	19.22	6.31	48.1	6.12	-3.0	3.2	

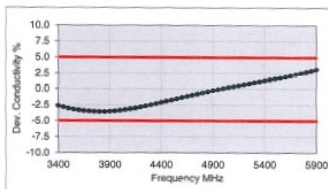
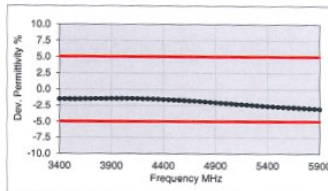


Figure D-4
3.5 – 5 GHz Body Tissue Equivalent Matter

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APPENDIX E: SAR SYSTEM VALIDATION

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

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

Table E-1
SAR System Validation Summary – 1g

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE TYPE	PROBE CAL. POINT	COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
						(σ)	(ϵ_r)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM7	750	2/21/2019	3837	EX3DV4	750 Body	0.982	53.971	PASS	PASS	PASS	N/A	N/A	N/A
AM2	835	11/8/2018	7416	EX3DV4	835 Body	0.986	54.641	PASS	PASS	PASS	GMSK	PASS	N/A
AM6	835	3/12/2019	7427	EX3DV4	835 Body	0.969	53.094	PASS	PASS	PASS	GMSK	PASS	N/A
AM3	1750	12/3/2018	7420	EX3DV4	1750 Body	1.540	52.963	PASS	PASS	PASS	N/A	N/A	N/A
AM3	1900	11/30/2018	7420	EX3DV4	1900 Body	1.573	51.227	PASS	PASS	PASS	GMSK	PASS	N/A
AM5	2300	12/10/2018	3318	ES3DV3	2300 Body	1.868	51.749	PASS	PASS	PASS	N/A	N/A	N/A
AM2	2450	11/9/2018	7416	EX3DV4	2450 Body	2.020	51.408	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM5	2450	12/10/2018	3318	ES3DV3	2450 Body	2.044	51.289	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM5	2600	12/10/2018	3318	ES3DV3	2600 Body	2.225	50.827	PASS	PASS	PASS	TDD	PASS	N/A
AM7	2600	4/2/2019	3837	EX3DV4	2600 Body	2.161	50.025	PASS	PASS	PASS	TDD	PASS	N/A
AM8	5250	11/2/2018	7491	EX3DV4	5250 Body	5.412	48.292	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5600	11/2/2018	7491	EX3DV4	5600 Body	5.872	47.700	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	5750	11/2/2018	7491	EX3DV4	5750 Body	6.115	47.406	PASS	PASS	PASS	OFDM	N/A	PASS

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

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APPENDIX G: POWER REDUCTION VERIFICATION

The device supports manufacturer's proprietary power reduction mechanism called "Detect Mode" for the Main Cellular Antenna. Details of this mechanism can be found in the Operational Description. When the device is being used "on-body" or "held in hand" by the user, the device will detect motion and reduce the power of the main antenna. Per the manufacturer, the mechanism is agnostic to different cellular air interfaces. Detect Mode operation was verified for two test cases, on-body and held in hand, for each supported cellular band. The power reduction verification results are below.

1.1 Main Antenna Power Reduction Verification Summary

Table G-1
Main Antenna Power Reduction Verification

Mode/Band	Antenna	Maximum Scenario Maximum Allowed Target Power [dBm]	Reduced Scenario Maximum Allowed Target Power [dBm]	Conducted Power [dBm]			
				Maximum	Test Case 1	Test Case 2	Verdict
GPRS 850 (2 Tx)	Antenna C	28.50 (± 0.75)	24.00 (± 0.75)	28.62	24.11	24.12	PASS
GPRS 850 (2 Tx)	Antenna D	26.50 (± 0.75)	24.75 (± 0.75)	26.33	24.58	24.57	PASS
GPRS 1900 (2 Tx)	Antenna C	28.00 (± 0.75)	18.20 (± 0.75)	27.82	17.86	17.85	PASS
GPRS 1900 (2 Tx)	Antenna D	25.75 (± 0.75)	17.50 (± 0.75)	25.41	17.24	17.23	PASS
UMTS B5	Antenna C	25.00 (± 0.5)	17.20 (± 0.5)	25.45	17.59	17.58	PASS
UMTS B5	Antenna D	24.00 (± 0.5)	18.70 (± 0.5)	24.18	18.87	18.86	PASS
UMTS B4	Antenna C	25.00 (± 0.5)	12.80 (± 0.5)	25.06	12.82	12.84	PASS
UMTS B4	Antenna D	24.50 (± 0.5)	12.70 (± 0.5)	24.09	12.26	12.25	PASS
UMTS B2	Antenna C	25.00 (± 0.5)	12.60 (± 0.5)	24.99	12.46	12.45	PASS
UMTS B2	Antenna D	24.50 (± 0.5)	11.50 (± 0.5)	24.19	11.03	11.04	PASS
LTE Band 71	Antenna C	25.00 (± 0.5)	17.60 (± 0.5)	25.39	17.84	17.85	PASS
LTE Band 71	Antenna D	24.00 (± 0.5)	16.70 (± 0.5)	24.31	16.88	16.89	PASS
LTE Band 12	Antenna C	25.00 (± 0.5)	17.00 (± 0.5)	25.30	17.25	17.26	PASS
LTE Band 12	Antenna D	24.00 (± 0.5)	16.70 (± 0.5)	24.16	16.70	16.72	PASS
LTE Band 17	Antenna C	25.00 (± 0.5)	17.00 (± 0.5)	25.19	17.16	17.15	PASS
LTE Band 17	Antenna D	24.00 (± 0.5)	16.70 (± 0.5)	24.13	16.72	16.71	PASS
LTE Band 14	Antenna C	25.00 (± 0.5)	17.60 (± 0.5)	25.28	17.79	17.77	PASS
LTE Band 14	Antenna D	24.00 (± 0.5)	17.80 (± 0.5)	23.94	17.63	17.61	PASS
LTE Band 13	Antenna C	25.00 (± 0.5)	17.60 (± 0.5)	25.50	18.10	18.09	PASS
LTE Band 13	Antenna D	24.00 (± 0.5)	17.80 (± 0.5)	24.50	18.19	18.20	PASS
LTE Band 5	Antenna C	25.00 (± 0.5)	17.20 (± 0.5)	25.02	17.26	17.25	PASS
LTE Band 5	Antenna D	24.00 (± 0.5)	18.70 (± 0.5)	23.91	18.59	18.58	PASS
LTE Band 26	Antenna C	25.00 (± 0.5)	18.50 (± 0.5)	25.11	18.64	18.65	PASS
LTE Band 26	Antenna D	24.00 (± 0.5)	17.70 (± 0.5)	23.80	17.53	17.52	PASS
LTE Band 4	Antenna C	25.00 (± 0.5)	12.80 (± 0.5)	25.17	12.85	12.84	PASS
LTE Band 4	Antenna D	23.00 (± 0.5)	12.70 (± 0.5)	23.24	12.49	12.53	PASS
LTE Band 66	Antenna C	25.00 (± 0.5)	12.80 (± 0.5)	25.01	12.83	12.82	PASS
LTE Band 66	Antenna D	23.00 (± 0.5)	12.70 (± 0.5)	23.21	12.60	12.61	PASS
LTE Band 2	Antenna C	25.00 (± 0.5)	12.60 (± 0.5)	24.73	12.35	12.33	PASS
LTE Band 2	Antenna D	23.00 (± 0.5)	11.50 (± 0.5)	23.44	11.26	11.24	PASS
LTE Band 25	Antenna C	25.00 (± 0.5)	12.60 (± 0.5)	24.60	12.20	12.19	PASS
LTE Band 25	Antenna D	23.00 (± 0.5)	11.50 (± 0.5)	23.46	11.28	11.27	PASS
LTE Band 30	Antenna C	21.30 (± 0.5)	12.70 (± 0.5)	21.71	12.85	12.88	PASS
LTE Band 30	Antenna D	20.80 (± 0.5)	12.30 (± 0.5)	20.95	12.15	12.11	PASS
LTE Band 7	Antenna C	25.00 (± 0.5)	11.90 (± 0.5)	25.10	12.04	12.03	PASS
LTE Band 7	Antenna D	22.75 (± 0.5)	11.90 (± 0.5)	22.35	11.51	11.49	PASS
LTE Band 41 (PC3)	Antenna C	25.00 (± 0.5)	14.90 (± 0.5)	25.47	14.95	14.96	PASS
LTE Band 41 (PC3)	Antenna D	22.75 (± 0.5)	14.90 (± 0.5)	23.01	14.73	14.74	PASS
LTE Band 41 (PC2)	Antenna C	26.50 (± 0.5)	14.90 (± 0.5)	26.91	14.91	14.89	PASS
LTE Band 41 (PC2)	Antenna D	24.25 (± 0.5)	14.90 (± 0.5)	24.38	14.75	14.75	PASS
LTE Band 7 ULCA	Antenna C	24.00 (± 1.0)	11.40 (± 1.0)	24.32	11.36	11.35	PASS
LTE Band 7 ULCA	Antenna D	21.75 (± 1.0)	11.40 (± 1.0)	21.37	10.65	10.66	PASS
LTE Band 41 ULCA	Antenna C	24.00 (± 1.0)	14.40 (± 1.0)	24.48	14.78	14.76	PASS
LTE Band 41 ULCA	Antenna D	21.75 (± 1.0)	14.40 (± 1.0)	21.52	14.46	14.44	PASS

Test Case 1: Device Held in Hand

Test Case 2: Device Resting on Lap

Test Cases represent typical scenarios in which the device power would be reduced. In these scenarios detect mode has been verified to identify typical on-body use-cases including when thin objects, such as a magazine or newspaper, are placed between the body and the device. In the absence of detect mode output, the device defaults to the most conservative power.

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APPENDIX H: DOWNLINK LTE CA RF CONDUCTED POWERS

1.1 LTE Downlink Only Carrier Aggregation Test Reduction Methodology

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per April 2018 TCBC Workshop Notes, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA_2A-2A-4A-12A, but B12 can only be configured as a SCC).
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.

Table 1 – Example of Exclusion Table for SISO Configurations

[illegible]

1.2 LTE Downlink Only Carrier Aggregation Test Selection and Setup

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

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Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the maximum average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive. All bands required for SAR testing per FCC KDB procedures were considered. Based on the measured maximum powers below, no additional SAR tests were required for DLCA SAR configurations.

General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.

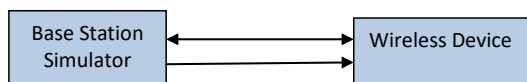


Figure 1
DL CA Power Measurement Setup

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1.3 Downlink Carrier Aggregation RF Conducted Powers

1.3.1 LTE Band 71 as PCC

Table 1
Output Powers – Antenna C

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC					SCC 1				SCC 2				Power		
				PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 2A-2A-71A	LTE B71	10	133172	668	QPSK	1	0	68636	622	LTE B2	20	900	1960	LTE B2	20	700	1940	18.10	18.10
CA 2A-4A-71A	LTE B71	10	133172	668	QPSK	1	0	68636	622	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	18.08	18.10
CA 2A-6A-71A	LTE B71	10	133172	668	QPSK	1	0	68636	622	LTE B2	20	900	1960	LTE B66	20	66786	2145	18.10	18.10
CA 4A-4A-71A	LTE B71	10	133172	668	QPSK	1	0	68636	622	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	18.10	18.10
CA 6A-6A-71A	LTE B71	10	133172	668	QPSK	1	0	68636	622	LTE B66	20	66786	2145	LTE B66	20	67236	2190	18.10	18.10
CA 60C-71A	LTE B71	10	133172	668	QPSK	1	0	68636	622	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	18.10	18.10

Table 2
Output Powers – Antenna D

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC					SCC 1					SCC 2			Power		
				PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power (dBm)
CA 2A-2A-71A	LTE B71	10	133172	668	QPSK	1	0	68636	622	LTE B2	20	900	1960	LTE B2	20	700	1940	17.20	17.20
CA 2A-4A-71A	LTE B71	10	133172	668	QPSK	1	0	68636	622	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	17.20	17.20
CA 2A-6A-71A	LTE B71	10	133172	668	QPSK	1	0	68636	622	LTE B2	20	900	1960	LTE B66	20	66786	2145	17.20	17.20
CA 4A-4A-71A	LTE B71	10	133172	668	QPSK	1	0	68636	622	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	17.19	17.20
CA 6A-6A-71A	LTE B71	10	133172	668	QPSK	1	0	68636	622	LTE B66	20	66786	2145	LTE B66	20	67236	2190	17.20	17.20
CA 60C-71A	LTE B71	10	133172	668	QPSK	1	0	68636	622	LTE B66	20	66786	2145	LTE B66	20	66084	2164.8	17.20	17.20

1.3.2 LTE Band 12 as PCC

Table 3
Output Powers – Antenna C

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				SCC 1				SCC 2				SCC 3				LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
				Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel			SCC (DL) Freq. [MHz]	
CA 2A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	17.48	17.50	
CA 4A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	17.47	17.50	
CA 4A-12A (2)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	17.47	17.50	
CA 12A-6A (1)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	17.45	17.50	
CA 12A-6A (2)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	17.49	17.50	
CA 2C-12A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	17.47	17.50	
CA 4A-7A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B4	20	2175	2132.5	LTE B7	20	3100	2655	-	-	-	17.49	17.50	
CA 2A-2A-12B	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B2	20	700	1940	17.49	17.50
CA 2A-2A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	17.45	17.50
CA 2A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B2	20	2175	2132.5	17.45	17.50
CA 2A-2A-12A-30A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	17.45	17.50
CA 2A-2A-12A-6A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	17.46	17.50
CA 2A-12A-6A-6A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	66786	2145	LTE B66	20	66786	2145	17.47	17.50
CA 2A-12A-6A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66786	2145	17.46	17.50
CA 2A-4A-12A-30A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	17.47	17.50
CA 2A-12A-30A-6A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	17.45	17.50
CA 4A-4A-12B	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	17.45	17.50
CA 4A-4A-12A-30A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B30	10	9820	2355	17.46	17.50
CA 12A-30A-6A-6A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	66786	2145	17.45	17.50

Table 4
Output Powers – Antenna D

PCC										SCC 1				SCC 2				SCC 3				Power		
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 2A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	17.19	17.19
CA 4A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	17.20	17.19
CA 4A-12A (2)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	17.20	17.19
CA 12A-6A (1)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	17.20	17.19
CA 12A-6A (2)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	17.20	17.19
CA 2C-12A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	-	17.14	17.19
CA 4A-7A-12A (1)	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B4	20	2175	2132.5	LTE B7	20	3100	2655	-	-	-	-	-	17.18	17.19
CA 2A-2A-12B	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B2	20	700	1940	17.17	17.19	
CA 2A-2A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B2	20	7175	2122.5	17.04	17.19	
CA 2A-4A-4A-12A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	20	700	1940	17.04	17.19	
CA 2A-4A-12B	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	17.05	17.19	
CA 2A-2A-12A-30A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	17.07	17.19	
CA 2A-2A-12A-6A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	17.04	17.19	
CA 2A-12A-6A-6A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66786	2145	17.05	17.19	
CA 2A-12A-6A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66786	2145	17.06	17.19	
CA 2A-4A-12A-30A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	17.06	17.19	
CA 2A-12A-30A-6A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	17.07	17.19	
CA 4A-4A-12B	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	17.05	17.19	
CA 4A-4A-12A-30A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B30	10	9820	2355	17.06	17.19	
CA 12A-30A-6A-6A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	66786	2145	17.06	17.19	

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1.3.3 LTE Band 13 as PCC

Table 5
Output Powers – Antenna C

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				SCC 1				SCC 2				SCC 3				Power					
				PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 2A-4A-13A	LTE B13	10	23230	782	16QAM	1	0	5230	751	LTE B2	20	900	1980	LTE B4	20	2175	2132.5	-	-	-	-	18.01	18.09		
CA 4A-4A-13A	LTE B13	10	23230	782	16QAM	1	0	5230	751	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	17.98	18.09		
CA 2A-2A-13A-66A	LTE B13	10	23230	782	16QAM	1	0	5230	751	LTE B2	20	900	1980	LTE B2	20	700	1940	LTE B66	20	66786	2145	66736	2190	17.95	18.09
CA 2A-13A-66A-66A	LTE B13	10	23230	782	16QAM	1	0	5230	751	LTE B2	20	900	1980	LTE B66	20	66786	2145	LTE B66	20	66786	2145	66736	2190	17.97	18.09
CA 2A-13A-66B	LTE B13	10	23230	782	16QAM	1	0	5230	751	LTE B2	20	900	1980	LTE B66	15	66786	2145	LTE B66	5	66879	2154.3	17.92	18.09		
CA 2A-13A-66C	LTE B13	10	23230	782	16QAM	1	0	5230	751	LTE B2	20	900	1980	LTE B66	20	66786	2145	LTE B66	20	66884	2164.8	17.95	18.09		
CA 13A-66A-66B	LTE B13	10	23230	782	16QAM	1	0	5230	751	LTE B66	20	66786	2145	LTE B66	5	67165	2152.2	LTE B66	15	67261	2192.5	17.88	18.09		
CA 13A-66A-66C	LTE B13	10	23230	782	16QAM	1	0	5230	751	LTE B66	20	66786	2145	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	18.04	18.09		

Table 6
Output Powers – Antenna D

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch	PCC				SCC 1				SCC 2				SCC 3				Power					
				PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 2A-4A-13A	LTE B13	10	23230	782	64QAM	1	0	5230	751	LTE B2	20	900	1980	LTE B4	20	2175	2132.5	-	-	-	-	17.89	17.99		
CA 4A-4A-13A	LTE B13	10	23230	782	64QAM	1	0	5230	751	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	17.93	17.99		
CA 2A-2A-13A-66A	LTE B13	5	23230	782	QPSK	12	0	5230	751	LTE B2	20	900	1980	LTE B2	20	700	1940	LTE B66	20	66786	2145	66736	2190	17.94	18.09
CA 2A-13A-66A-66A	LTE B13	5	23230	782	QPSK	12	0	5230	751	LTE B2	20	900	1980	LTE B66	20	66786	2145	LTE B66	20	66736	2190	17.93	18.09		
CA 2A-13A-66B	LTE B13	5	23230	782	QPSK	12	0	5230	751	LTE B2	20	900	1980	LTE B66	15	66786	2145	LTE B66	5	66879	2154.3	17.94	18.09		
CA 2A-13A-66C	LTE B13	5	23230	782	QPSK	12	0	5230	751	LTE B2	20	900	1980	LTE B66	20	66786	2145	LTE B66	20	66884	2164.8	17.95	18.09		
CA 13A-66A-66B	LTE B13	5	23230	782	QPSK	12	0	5230	751	LTE B66	20	66786	2145	LTE B66	5	67165	2152.2	LTE B66	15	67261	2192.5	17.94	18.09		
CA 13A-66A-66C	LTE B13	5	23230	782	QPSK	12	0	5230	751	LTE B66	20	66786	2145	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	17.86	18.09		

1.3.4 LTE Band 14 as PCC

Table 7
Output Powers – Antenna C

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				SCC 1				SCC 2				SCC 3				Power			
				PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 2A-2A-14A-66A	LTE B14	10	23330	763	16QAM	1	49	5330	763	LTE B2	20	900	1980	LTE B2	20	700	1940	LTE B66	10	66786	2145	18.08	18.09
CA 2A-14A-66A-66A	LTE B14	10	23330	763	16QAM	1	49	5330	763	LTE B2	20	900	1980	LTE B66	20	66786	2145	LTE B66	20	66736	2190	18.09	18.09
CA 2A-14A-30A-66A	LTE B14	10	23330	763	16QAM	1	49	5330	763	LTE B2	20	900	1980	LTE B30	10	9820	2355	LTE B66	20	66786	2145	18.09	18.09
CA 14A-30A-66A-66A	LTE B14	10	23330	763	16QAM	1	49	5330	763	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	18.09	18.09

Table 8
Output Powers – Antenna D

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				SCC 1				SCC 2				SCC 3				Power			
				PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 2A-2A-14A-66A	LTE B14	10	23330	763	QPSK	1	49	5330	763	LTE B2	20	900	1980	LTE B2	20	700	1940	LTE B66	10	66786	2145	17.96	17.98
CA 2A-14A-66A-66A	LTE B14	10	23330	763	QPSK	1	49	5330	763	LTE B2	20	900	1980	LTE B66	20	66786	2145	LTE B66	20	66736	2190	17.98	17.98
CA 2A-14A-30A-66A	LTE B14	10	23330	763	QPSK	1	49	5330	763	LTE B2	20	900	1980	LTE B30	10	9820	2355	LTE B66	20	66786	2145	17.98	17.98
CA 14A-30A-66A-66A	LTE B14	10	23330	763	QPSK	1	49	5330	763	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	17.98	17.98

1.3.5 LTE Band 5 as PCC

Table 9
Output Powers – Antenna C

Combination	PCC Band	PCC BW [MHz]	PCC				SCC Band	SCC 1			SCC Band	SCC 2			SCC Band	SCC 3			SCC Band	SCC 4			LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
			PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB		PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]		SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]		SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]		SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]			
CA 5A-7A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B7	20	3300	2655	-	-	-	-	-	-	-	-	-	17.68	17.70	
CA 5A-25A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B25	20	8365	1905.5	-	-	-	-	-	-	-	-	-	17.70	17.70	
CA 5A-4A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B4	20	4050	2393	-	-	-	-	-	-	-	-	-	17.70	17.70	
CA 2C-5A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1980	LTE B2	20	700	1940.2	-	-	-	-	-	17.96	17.70	
CA 2A-2A-4A-5A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1980	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	17.66	17.70	
CA 2A-4A-4A-5A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1980	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	17.45	17.70	
CA 2A-4A-5B	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B5	10	2497	878.7	LTE B2	20	900	1980	LTE B4	10	2175	2132.5	-	17.49	17.70	
CA 2A-2A-5A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1980	LTE B2	20	700	1940	LTE B30	10	9820	2355	-	17.67	17.70	
CA 2A-5A-66A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1980	LTE B66	20	66786	2145	LTE B66	20	66736	2190	-	17.68	17.70	
CA 2A-4A-5A-30A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1980	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	-	17.70	17.70	
CA 2A-5A-30A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1980	LTE B30	10	9820	2355	LTE B66	20	66786	2145	-	17.65	17.70	
CA 4A-4A-5A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B5	10	2497	878.7	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	17.45	17.70	
CA 4A-5A-30A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B5	10	2497	878.7	LTE B30	10	9820	2355	LTE B30	10	9820	2355	-	17.68	17.70	
CA 5A-66D	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B66	20	66888	2125.2	LTE B66	20	66786	2145	LTE B66	20	66884	2164.8	-	17.68	17.70	
CA 5A-66A-66B	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B66	20	66786	2145	LTE B66	15	67165	2152.2	LTE B66	15	67261	2192.5	-	17.65	17.70	
CA 5A-66A-66C	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B66	20	66786	2145	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	-	17.64	17.70	
CA 5A-30A-66A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	17.70	17.70	
CA 2A-2A-5A-66B	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1980	LTE B2	20	700	1940	LTE B66	15	66786	2145	66879	2154.3	17.58	17.70
CA 2A-2A-5A-66C	LTE B5	5	20425	826.5	QPSK																				
CA 2A-2A-5A-66A	LTE B5	5	20425	826.5	QPSK																				
CA 5A-5B-66C	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B5	10	2497	878.7	LTE B2	20	900	1980	LTE B66	20	66884	2164.8	17.57	17.70		
CA 5A-5B-30A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B5	10	2497	878.7	LTE B30	10	9820	2355	LTE B30	10	9820	2355	17.56	17.70		
CA 5A-30A-66A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B5	10	2497	878.7	LTE B30	10	9820	2355	LTE B66	20	66786	2145	66836	2190	17.70	17.70

Table 10
Output Powers – Antenna D

[illegible]

1.3.6 LTE Band 26 as PCC

Table 11
Output Powers – Antenna C

	PCC									SCC 1				SCC 2				Power	
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 25A-26A	LTE B26	10	26865	831.5	64QAM	1	25	8865	876.5	LTE B26	20	8365	1962.5	-	-	-	-	19.00	19.00
CA 25A-26A-26A	LTE B26	5	26715	816.5	16QAM	1	0	8715	861.5	LTE B26	20	8365	1962.5	LTE B26	20	8590	1985	19.00	19.00

Table 12
Output Powers – Antenna D

Combination	PCC									SCC 1				SCC 2				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_25A-26A	LTE B26	3	26705	815.5	QPSK	8	0	8705	860.5	LTE B25	20	8365	1962.5	-	-	-	-	18.16	18.20
CA_25A-26A-26A	LTE B26	3	26705	815.5	QPSK	8	0	8705	860.5	LTE B25	20	8365	1962.5	LTE B25	20	8590	1985	18.19	18.20

1.3.7 LTE Band 66 as PCC

Table 13
Output Powers – Antenna C

PCC										SSC 1				SSC 2				SSC 3				SSC 4				Power				
Combination	PCC Band	PCC BW [MHz]	PCC [L/U] Freq. [MHz]	PCC [L/U] Freq. [MHz]	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq.	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq.	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq. [MHz]	LTE Tx Power with Co-CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 2A-6A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.28	13.30	
CA 4A-6A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B67	20	3100	2655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.15	13.30	
CA 12A-6A(1)	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B12	10	5095	7375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.30	13.30	13.30	
CA 12A-12A(2)	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B12	20	5095	7375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.30	13.30	13.30	
CA 2A-6A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	-	-	-	-	-	-	-	-	-	-	-	13.28	13.30	13.30
CA 2A-6A-71A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B71	20	68761	634.5	-	-	-	-	-	-	-	-	-	-	-	13.27	13.30	13.30
CA 2A-6A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B66	20	67236	2100	LTE B69	10	8715	722.5	-	-	-	-	-	-	-	-	-	-	-	13.10	13.30	13.30
CA 6A-6A-71A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B66	20	67236	2100	LTE B71	20	68761	634.5	-	-	-	-	-	-	-	-	-	-	-	13.29	13.30	13.30
CA 6A-71A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B66	20	68734	219.8	LTE B71	20	68761	634.5	-	-	-	-	-	-	-	-	-	-	-	13.30	13.30	13.30
CA 2A-12A-6A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B66	20	67236	2100	LTE B62	20	900	1960	LTE B62	20	700	1940	-	-	-	-	-	-	-	13.27	13.30	13.30
CA 2A-12A-6A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B66	20	67236	2100	LTE B69	10	8715	722.5	-	-	-	-	-	-	-	-	-	-	-	13.26	13.30	13.30
CA 2A-5A-6A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B66	20	67236	2100	LTE B62	20	900	1960	LTE B65	10	8225	881.5	-	-	-	-	-	-	-	13.21	13.30	13.30
CA 2A-12A-6A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B62	10	8095	737.5	-	-	-	-	-	-	-	13.27	13.30	13.30
CA 2A-12A-6A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	67236	2100	LTE B62	20	900	1960	LTE B62	10	8095	737.5	-	-	-	-	-	-	-	13.27	13.30	13.30
CA 2A-12A-66C	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B66	20	68734	219.8	LTE B62	20	900	1960	LTE B62	10	8095	737.5	-	-	-	-	-	-	-	13.23	13.30	13.30
CA 2A-12A-13A-6A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B63	10	8230	751	-	-	-	-	-	-	-	13.23	13.30	13.30
CA 2A-12A-6A-66C	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B66	20	67236	2100	LTE B62	20	900	1960	LTE B63	10	8230	751	-	-	-	-	-	-	-	13.23	13.30	13.30
CA 2A-13A-6A	LTE B60	20	130202	1715	QPSK	1	66486	2115	LTE B66	10	66585	2124.9	LTE B62	20	900	1960	LTE B13	10	8230	751	-	-	-	-	-	-	-	13.19	13.30	13.30
CA 2A-13A-6A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B66	20	68734	219.8	LTE B62	20	900	1960	LTE B13	10	8230	751	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-12A-13A-6A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B66	20	67236	2100	LTE B62	20	900	1960	LTE B14	10	8230	751	-	-	-	-	-	-	-	13.25	13.30	13.30
CA 2A-14A-6A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-14A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-14A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK	1	56536	2120	LTE B62	20	900	1960	LTE B62	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	13.24	13.30	13.30
CA 2A-20A-30A-66A	LTE B60	20	130202	1720	QPSK																									

FCC ID: BCGA2200

Test Dates:

05/22/2019-07/03/2019



DUT Type:

Tablet Device

SAR EVALUATION REPORT

Reviewed by:

Quality Manager

APPENDIX H:

Page 5 of 9

Table 14
Output Powers – Antenna D

Combination	PCC Band	PCC BW [MHz]	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power				
			PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL# RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 2A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 7A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 12A-66A (1)	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 12A-66A (2)	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 2C-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B2	20	900	1960	LTE B2	20	700	1940.2	-	-	-	-	-	-	-	-	-	
CA 2A-66A-71A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B2	20	900	1960	LTE B71	20	68761	634.5	-	-	-	-	-	-	-	-	-	
CA 2A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	-	
CA 66A-71A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B71	20	68761	634.5	-	-	-	-	-	-	-	-	-	
CA 66C-71A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	66734	2139.8	LTE B71	20	68761	634.5	-	-	-	-	-	-	-	-	-	
CA 2A-2A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	-	
CA 2A-2A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 2A-5A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 2A-12A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	
CA 2A-12A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	
CA 2A-12A-66C	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	66734	2139.8	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	
CA 2A-2A-13A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B13	10	5230	751	-	-	-	-	-	
CA 2A-13A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	-	
CA 2A-13A-66B	LTE B55	15	132087	1722.5	QPSK	1	0	67061	2172.5	LTE B55	5	66968	2163.2	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	-	
CA 2A-13A-66C	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	66734	2139.8	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	-	
CA 2A-14A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B14	10	5330	763	-	-	-	-	-	
CA 2A-2A-30A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	8620	2395	-	-	-	-	-	
CA 2A-30A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B30	10	8620	2395	-	-	-	-	-	
CA 2A-12A-30A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B30	10	8620	2395	-	-	-	-	-	
CA 2A-30A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B30	10	8620	2395	-	-	-	-	-	
CA 5A-66C	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	66734	2139.8	LTE B55	20	67130	2179.4	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 5A-66A-66B	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	5	67168	2163.2	LTE B55	15	67261	2162.5	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 5A-66B-66A	LTE B55	15	132087	1722.5	QPSK	1	0	67061	2172.5	LTE B55	5	66968	2163.2	LTE B55	15	66936	2162.5	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 5A-66A-66C	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67038	2170.2	LTE B55	20	67236	2100	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 5A-66C-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	66734	2139.8	LTE B55	20	67236	2100	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 5A-30A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B5	10	2525	881.5	LTE B30	10	8620	2395	-	-	-	-	-	
CA 12A-30A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B12	10	5095	737.5	LTE B30	10	8620	2395	-	-	-	-	-	
CA 13A-66A-66C	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	5	67168	2163.2	LTE B55	15	67261	2162.5	LTE B13	10	5230	751	-	-	-	-	-	
CA 13A-66A-66C	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67038	2170.2	LTE B55	20	67236	2100	LTE B13	10	5230	751	-	-	-	-	-	
CA 13A-66A-66C	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67038	2170.2	LTE B55	20	67236	2100	LTE B13	10	5230	751	-	-	-	-	-	
CA 14A-30A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B14	10	5330	763	LTE B30	10	8620	2395	-	-	-	-	-	
CA 2A-2A-66A-66B	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	5	67488	2188.2	LTE B55	15	67261	2182.5	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-
CA 2A-2A-66B-66A	LTE B55	15	132087	1722.5	QPSK	1	0	67061	2172.5	LTE B55	5	66968	2163.2	LTE B55	20	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-
CA 2A-2A-66A-66C	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67038	2170.2	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-
CA 2A-2A-66C-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	66734	2139.8	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-
CA 2A-2A-66A-66B	LTE B55	15	132087	1722.5	QPSK	1	0	67061	2172.5	LTE B55	5	66968	2163.2	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 2A-6A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 2A-6A-66C	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	66734	2139.8	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 2A-6A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 2A-6A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 2A-6A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 2A-6A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 2A-6A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 2A-6A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 2A-6A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 2A-6A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20	67236	2100	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	
CA 2A-6A-66A-66A	LTE B55	20	132072	1720	15QAM	1	0	66336	2120	LTE B55	20																

Table 18
Output Powers – Antenna D

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL# RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 2C-3A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	-	-	-	-	-	12.58	12.59
CA 2A-2A-5A-3A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2025	881.5	-	-	-	-	-	12.59	12.59
CA 2A-2A-12A-3A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5005	737.5	-	-	-	-	-	12.58	12.59
CA 2A-2A-2A-3A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B29	10	8715	722.5	-	-	-	-	-	12.58	12.59
CA 2A-2A-6A-6A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	-	12.57	12.59
CA 2A-4A-5A-3A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B5	10	2025	881.5	-	-	-	-	-	12.55	12.59
CA 2A-4A-12A-3A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B12	10	5005	737.5	-	-	-	-	-	12.54	12.59
CA 2A-4A-2A-3A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B29	10	8715	722.5	-	-	-	-	-	12.51	12.59
CA 2A-5A-3A-6A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B5	10	2025	881.5	LTE B66	20	66786	2145	-	-	-	-	-	12.59	12.59
CA 2A-12A-3A-6A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B12	10	5005	737.5	LTE B66	20	66786	2145	-	-	-	-	-	12.59	12.59
CA 2A-12A-3A-6A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B12	10	5005	737.5	LTE B66	20	66786	2145	-	-	-	-	-	12.57	12.59
CA 2A-2A-3A-6A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B29	10	8715	722.5	LTE B66	20	66786	2145	-	-	-	-	-	12.58	12.59
CA 4A-4A-5A-3A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B4	10	2060	2150	LTE B5	10	2025	881.5	-	-	-	-	-	12.55	12.59
CA 4A-4A-12A-3A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B4	10	2060	2150	LTE B12	10	5005	737.5	-	-	-	-	-	12.54	12.59
CA 5A-3A-6A-6A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B5	10	2025	881.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	-	12.57	12.59
CA 12A-3A-6A-6A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B12	10	5005	737.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	-	12.59	12.59
CA 14A-3A-6A-6A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B14	10	5330	763	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	-	12.58	12.59
CA 2A-5A-3A-6A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B5	10	2025	881.5	LTE B5	5	7463	874.3	LTE B66	20	66786	2145	12.59	12.59	
CA 6A-3A-6A-6A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B5	10	2025	881.5	LTE B5	5	7463	874.3	LTE B66	20	66786	2145	LTE B66	20	67236	2190	12.58	12.59	

1.3.10 LTE Band 7 as PCC

Table 19
Output Powers – Antenna C

Combination	PCC									SCC 1				SCC 2				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 5A-7A	LTE B7	20	20850	2510	QPSK	1	99	2850	2630	LTE B5	10	2525	881.5	-	-	-	-	12.30	12.40
CA 7B	LTE B7	15	21100	2535	16QAM	1	36	3100	2655	LTE B7	5	3007	2645.7	-	-	-	-	12.39	12.39
CA 7C (1)	LTE B7	20	20850	2510	QPSK	1	99	2850	2630	LTE B7	20	3048	2649.8	-	-	-	-	12.34	12.40
CA 7A-6A	LTE B7	20	20850	2510	QPSK	1	99	2850	2630	LTE B66	20	66786	2145	-	-	-	-	12.39	12.40
CA 4A-4A-7A (1)	LTE B7	20	20850	2510	QPSK	1	99	2850	2630	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	12.38	12.40
CA 4A-7A-7A	LTE B7	20	20850	2510	QPSK	1	99	2850	2630	LTE B7	20	3350	2680	LTE B4	20	2175	2132.5	12.36	12.40
CA 4A-7A-12A (1)	LTE B7	20	20850	2510	QPSK	1	99	2850	2630	LTE B4	20	2175	2132.5	LTE B12	10	5095	737.5	12.35	12.40

Table 20
Output Powers – Antenna D

Combination	PCC									SCC 1			SCC 2			Power			
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL# RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dbm)	LTE Single Carrier Tx Power (dbm)
CA 5A-7A	LTE B7	15	20825	2507.5	QPSK	36	18	2825	2627.5	LTE B5	10	2525	881.5	-	-	-	-	12.19	12.20
CA 7B	LTE B7	15	20825	2507.5	QPSK	36	18	2825	2627.5	LTE B7	5	2918	2636.8	-	-	-	-	12.20	12.20
CA 7C (1)	LTE B7	15	20825	2507.5	QPSK	36	18	2825	2627.5	LTE B7	20	2996	2644.6	-	-	-	-	12.19	12.20
CA 7A-6A	LTE B7	15	20825	2507.5	QPSK	36	18	2825	2627.5	LTE B66	20	66786	2145	-	-	-	-	12.17	12.20
CA 4A-4A-7A (1)	LTE B7	15	20825	2507.5	QPSK	36	18	2825	2627.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	12.19	12.20
CA 4A-7A-7A	LTE B7	15	20825	2507.5	QPSK	36	18	2825	2627.5	LTE B4	20	3350	2680	LTE B4	20	2175	2132.5	12.20	12.20
CA 4A-7A-12A (1)	LTE B7	15	20825	2507.5	QPSK	36	18	2825	2627.5	LTE B4	20	2175	2132.5	LTE B12	10	5005	737.5	12.19	12.20

1.3.11 LTE Band 41 as PCC

Table 21
Output Powers – Antenna C

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL# RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 41A-41A (1)	LTE B41	15	39750	2506	QPSK	36	18	39750	2506	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	-	15.40	15.40
CA 41A-41C	LTE B41	15	39750	2506	QPSK	36	18	39750	2506	LTE B41	20	41292	2680.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	15.40	15.40
CA 41C-41A	LTE B41	15	39750	2506	QPSK	36	18	39750	2506	LTE B41	20	39921	2523.1	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	15.40	15.40
CA 41A-41D	LTE B41	15	39750	2506	QPSK	36	18	39750	2506	LTE B41	20	41094	2640.4	LTE B41	20	41292	2680.2	LTE B41	20	41490	2680	-	-	-	-	-	15.40	15.40
CA 41D-41A	LTE B41	15	39750	2506	QPSK	36	18	39750	2506	LTE B41	20	39921	2523.1	LTE B41	20	41094	2640.4	LTE B41	20	41490	2680	-	-	-	-	-	15.40	15.40
CA 41C-41C	LTE B41	15	39750	2506	QPSK	36	18	39750	2506	LTE B41	20	39921	2523.1	LTE B41	20	41292	2680.2	LTE B41	20	41490	2680	-	-	-	-	-	15.40	15.40
CA 41C-41D	LTE B41	15	39750	2506	QPSK	36	18	39750	2506	LTE B41	20	39921	2523.1	LTE B41	20	40119	2542.9	LTE B41	20	40917	2562.7	-	-	-	-	-	15.39	15.40
CA 41D-41C	LTE B41	15	39750	2506	QPSK	36	18	39750	2506	LTE B41	20	39921	2523.1	LTE B41	20	41292	2680.2	LTE B41	20	40917	2562.7	-	-	-	-	-	15.39	15.40

Table 22
Output Powers – Antenna D

		PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
		PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL# RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 41A-41A (1)	LTE B41	20	40185	2549.5	QPSK	1	99	40185	2549.5	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	-	15.40	15.40	
CA 41A-41C	LTE B41	20	40185	2549.5	QPSK	1	99	40185	2549.5	LTE B41	20	41292	2680.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	15.40	15.40	
CA 41C-41A	LTE B41	20	40185	2549.5	QPSK	1	99	40185	2549.5	LTE B41	20	40383	2590.3	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	15.40	15.40	
CA 41A-41D	LTE B41	20	40185	2549.5	QPSK	1	99	40185	2549.5	LTE B41	20	41094	2604.4	-	-	41292	2680.2	LTE B41	20	41490	2680	-	-	-	-	-	15.39	15.40	
CA 41D-41A	LTE B41	20	40185	2549.5	QPSK	1	99	40185	2549.5	LTE B41	20	40383	2590.3	LTE B41	20	41292	2680.2	LTE B41	20	41490	2680	-	-	-	-	-	15.39	15.40	
CA 41C-41C	LTE B41	20	40185	2549.5	QPSK	1	99	40185	2549.5	LTE B41	20	40383	2590.3	LTE B41	20	41292	2680.2	LTE B41	20	41490	2680	-	-	-	-	-	15.39	15.40	
CA 41E	LTE B41	20	40185	2549.5	QPSK	1	99	40185	2549.5	LTE B41	20	40383	2590.3	LTE B41	20	41294	2599.1	LTE B41	20	40779	2668.9	-	-	-	-	-	15.40	15.40	
CA 41C-41D	LTE B41	20	40185	2549.5	QPSK	1	99	40185	2549.5	LTE B41	20	40383	2590.3	LTE B41	20	41294	2604.5	LTE B41	20	41292	2680.2	LTE B41	20	41490	2680	15.37	15.40		
CA 41C-41E	LTE B41	20	40185	2549.5	QPSK	1	99	40185	2549.5	LTE B41	20	40383	2590.3	LTE B41	20	41294	2599.1	LTE B41	20	41292	2680.2	LTE B41	20	41490	2680	15.37	15.40		

1.3.12 LTE Band 41 PC2 as PCC

Table 23
Output Powers – Antenna C

Combination	PCC Band	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power	
		PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA_41A-41A (1)	LTE B41 PC2	15	39750	2506	QPSK	1	36	39750	2506	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	15.40	15.40
CA_41A-41C	LTE B41 PC2	15	39750	2506	QPSK	1	36	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	15.37	15.40
CA_41C-41A	LTE B41 PC2	15	39750	2506	QPSK	1	36	39750	2506	LTE B41 PC2	20	39621	2523.1	-	-	-	-	-	-	-	-	15.40	15.40
CA_41A-41D	LTE B41 PC2	15	39750	2506	QPSK	1	36	39750	2506	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	15.40	15.40
CA_41D-41A	LTE B41 PC2	15	39750	2506	QPSK	1	36	39750	2506	LTE B41 PC2	20	39621	2523.1	LTE B41 PC2	20	40119	2542.9	LTE B41 PC2	20	41490	2680	15.39	15.40
CA_41C-41C	LTE B41 PC2	15	39750	2506	QPSK	1	36	39750	2506	LTE B41 PC2	20	39621	2523.1	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	15.40	15.40
CA_41E	LTE B41 PC2	15	39750	2506	QPSK	1	36	39750	2506	LTE B41 PC2	20	39621	2523.1	LTE B41 PC2	20	40119	2542.9	LTE B41 PC2	20	40217	2592.7	15.39	15.40
CA_41C-41D	LTE B41 PC2	15	39750	2506	QPSK	1	36	39750	2506	LTE B41 PC2	20	39621	2523.1	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	15.38	15.40
CA_41D-41C	LTE B41 PC2	15	39750	2506	QPSK	1	36	39750	2506	LTE B41 PC2	20	39621	2523.1	LTE B41 PC2	20	40119	2542.9	LTE B41 PC2	20	41292	2660.2	15.39	15.40

Table 24
Output Powers – Antenna D

Combination	PCC Band	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power	
		PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA_41A-41A (1)	LTE B41 PC2	15	40185	2549.5	64QAM	1	74	40185	2549.5	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	15.39	15.40
CA_41A-41C	LTE B41 PC2	15	40185	2549.5	64QAM	1	74	40185	2549.5	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	15.39	15.40
CA_41C-41A	LTE B41 PC2	15	40185	2549.5	64QAM	1	74	40185	2549.5	LTE B41 PC2	20	40356	2566.6	-	-	-	-	-	-	-	-	15.40	15.40
CA_41A-41D	LTE B41 PC2	15	40185	2549.5	64QAM	1	74	40185	2549.5	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	15.04	15.40
CA_41D-41A	LTE B41 PC2	15	40185	2549.5	64QAM	1	74	40185	2549.5	LTE B41 PC2	20	40356	2566.6	LTE B41 PC2	20	40554	2586.4	LTE B41 PC2	20	41490	2680	15.20	15.40
CA_41C-41C	LTE B41 PC2	15	40185	2549.5	64QAM	1	74	40185	2549.5	LTE B41 PC2	20	40356	2566.6	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	15.17	15.40
CA_41E	LTE B41 PC2	15	40185	2549.5	64QAM	1	74	40185	2549.5	LTE B41 PC2	20	40356	2566.6	LTE B41 PC2	20	40554	2586.4	LTE B41 PC2	20	40752	2606.2	15.05	15.40
CA_41C-41D	LTE B41 PC2	15	40185	2549.5	64QAM	1	74	40185	2549.5	LTE B41 PC2	20	40356	2566.6	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	15.21	15.40
CA_41D-41C	LTE B41 PC2	15	40185	2549.5	64QAM	1	74	40185	2549.5	LTE B41 PC2	20	40356	2566.6	LTE B41 PC2	20	40554	2586.4	LTE B41 PC2	20	41292	2660.2	15.20	15.40

FCC ID: BCGA2200



SAR EVALUATION REPORT

Reviewed by:
Quality Manager

Test Dates:
05/22/2019-07/03/2019

DUT Type:
Tablet Device

APPENDIX H:
Page 8 of 9

1.4 Downlink Carrier Aggregation with CA_41C Uplink Carrier Aggregation enabled

This device supports uplink carrier aggregation (ULCA) with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with ULCA active and additional CA configurations active in the downlink for the configuration per Fall 2017 TCB Workshop Notes.

Per FCC Guidance, additional SAR measurements for these configurations were not required since their maximum output power was not more than 0.25 dB higher than the maximum output power for with only ULCA active.

1.4.1 DL Carrier Aggregation RF Conducted Powers

Table 25
Output Powers – Antenna C

Combination	PCC										SCC1				SCC2				SCC3				SCC4				Power	
	PCC Band	PCC Bandwidth [MHz]	PCC [UL/DL] Channel	PCC [UL/DL] Frequency [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC [UL/DL] Channel	Modulation	SCC UL RB	SCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Frequency [MHz]	ULCA Tx. Power with add'l CA configuration active in DL (dBm)	ULCA Tx. Power (dBm)				
CA 41C-41A	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	LTE B41	20	41490	2680	-	-	-	-	-	15.39	15.39			
CA 41D	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	LTE B41	20	41016	2632.6	-	-	-	-	-	15.33	15.39			
CA 41E	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	LTE B41	20	41016	2632.6	LTE B41	20	41314	2693.4	-	-	15.36	15.39		
CA 41C-41C	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	15.34	15.39		
CA 41D-41A	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	LTE B41	20	41016	2632.6	LTE B41	20	41490	2680	-	-	15.39	15.39		
CA 41C-41D	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	15.38	15.39
CA 41D-41C	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	LTE B41	20	41016	2632.6	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	15.34	15.39

Table 26
Output Powers – Antenna D

Combination	PCC										SCC1				SCC2				SCC3				SCC4				Power	
	PCC Band	PCC Bandwidth [MHz]	PCC [UL/DL] Channel	PCC [UL/DL] Frequency [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC [UL/DL] Channel	SCC [UL/DL] Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Frequency [MHz]	ULCA Tx. Power with add'l CA configuration active in DL (dBm)	ULCA Tx. Power (dBm)
CA 41C-41A	LTE B41	20	41055	2636.5	QPSK	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	LTE B41	20	39750	2506	-	-	-	-	-	-	-	-	15.04	15.00
CA 41D	LTE B41	20	41055	2636.5	QPSK	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	LTE B41	20	40659	2596.9	-	-	-	-	-	-	-	-	14.98	15.00
CA 41E	LTE B41	20	41055	2636.5	QPSK	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	LTE B41	20	40659	2596.9	LTE B41	20	40461	2577.1	-	-	-	-	14.99	15.00
CA 41C-41C	LTE B41	20	41055	2636.5	QPSK	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	-	-	-	-	14.97	15.00
CA 41D-41A	LTE B41	20	41055	2636.5	QPSK	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	LTE B41	20	40659	2596.9	LTE B41	20	39750	2506	-	-	-	-	14.98	15.00
CA 41C-41D	LTE B41	20	41055	2636.5	QPSK	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	LTE B41	20	40146	2545.6	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	14.96	15.00
CA 41D-41C	LTE B41	20	41055	2636.5	QPSK	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	LTE B41	20	40659	2596.9	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	14.95	15.00

FCC ID: BCGA2200	 PCTEST Engineering Laboratory, Inc.	SAR EVALUATION REPORT	Reviewed by: Quality Manager
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