



DASY/EASY – Parameters of Probe: ES3DV3 – SN:3279

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm($\mu\text{V}/(\text{V/m})^2$) ^A	1.32	1.39	1.31	±10.0%
DCP(mV) ^B	104.2	106.6	106.1	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB/ μV	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	264.4	±2.2%
		Y	0.0	0.0	1.0		276.5	
		Z	0.0	0.0	1.0		268.2	

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 Page 4).

^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:3279

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)	Unct. (k=2)
750	41.9	0.89	6.44	6.44	6.44	0.40	1.40	± 12.1%
835	41.5	0.90	6.25	6.25	6.25	0.43	1.48	± 12.1%
1750	40.1	1.37	5.40	5.40	5.40	0.75	1.19	± 12.1%
1900	40.0	1.40	5.16	5.16	5.16	0.69	1.25	± 12.1%
2000	40.0	1.40	5.13	5.13	5.13	0.63	1.31	± 12.1%
2300	39.5	1.67	4.92	4.92	4.92	0.90	1.10	± 12.1%
2450	39.2	1.80	4.71	4.71	4.71	0.90	1.16	± 12.1%
2600	39.0	1.96	4.54	4.54	4.54	0.90	1.15	± 12.1%

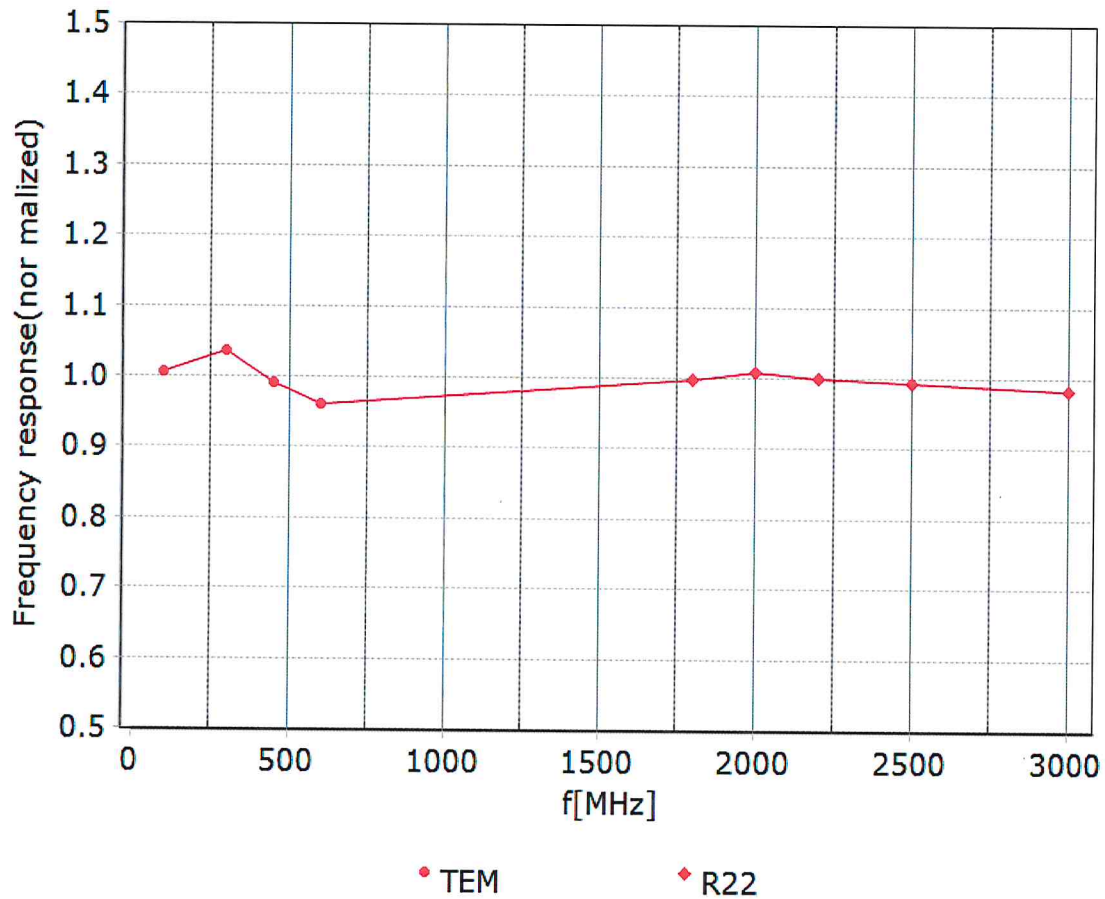
^C Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 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 frequency 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 the 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: $\pm 7.4\%$ ($k=2$)

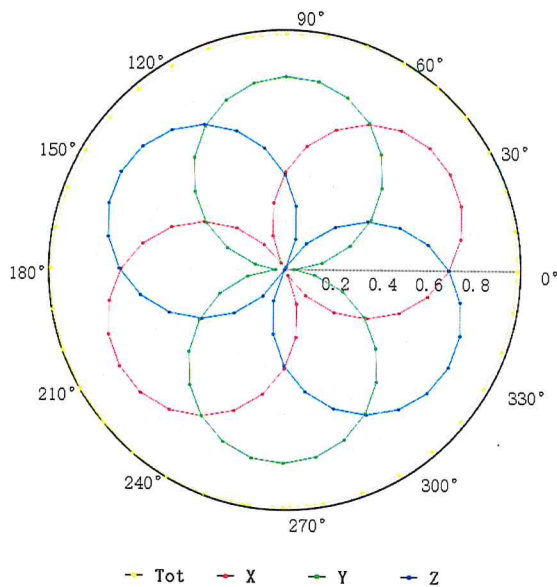


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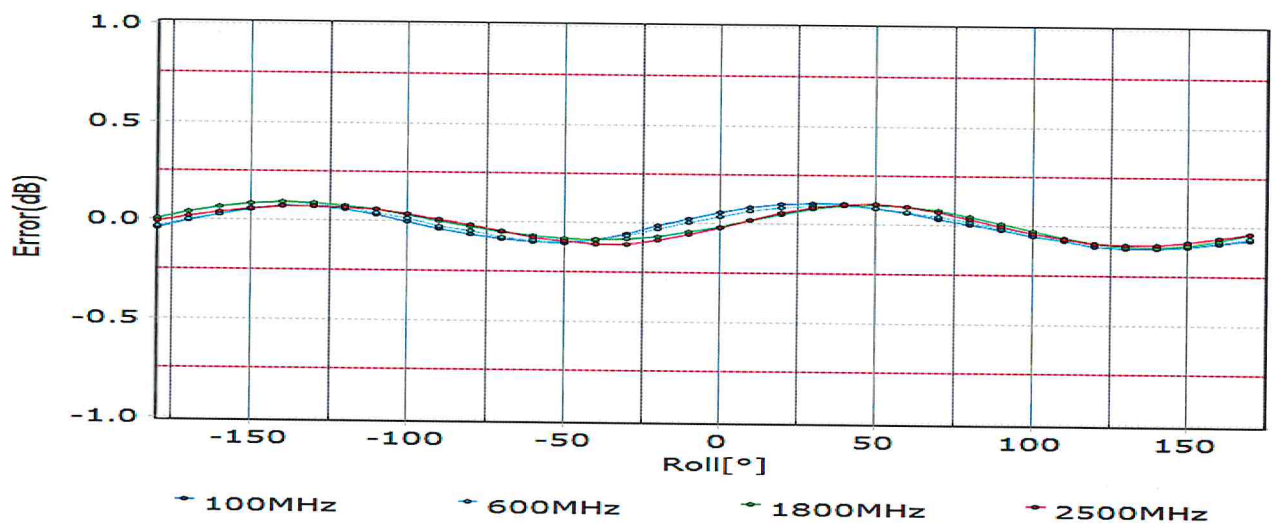
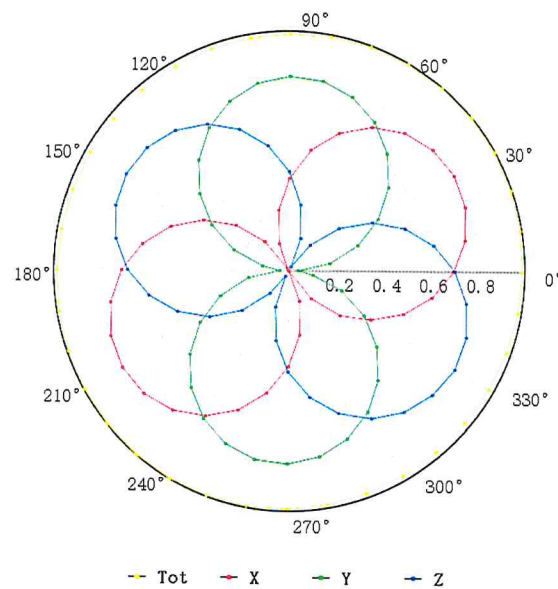
Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com [Http://www.chinattl.cn](http://www.chinattl.cn)

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

f=600 MHz, TEM



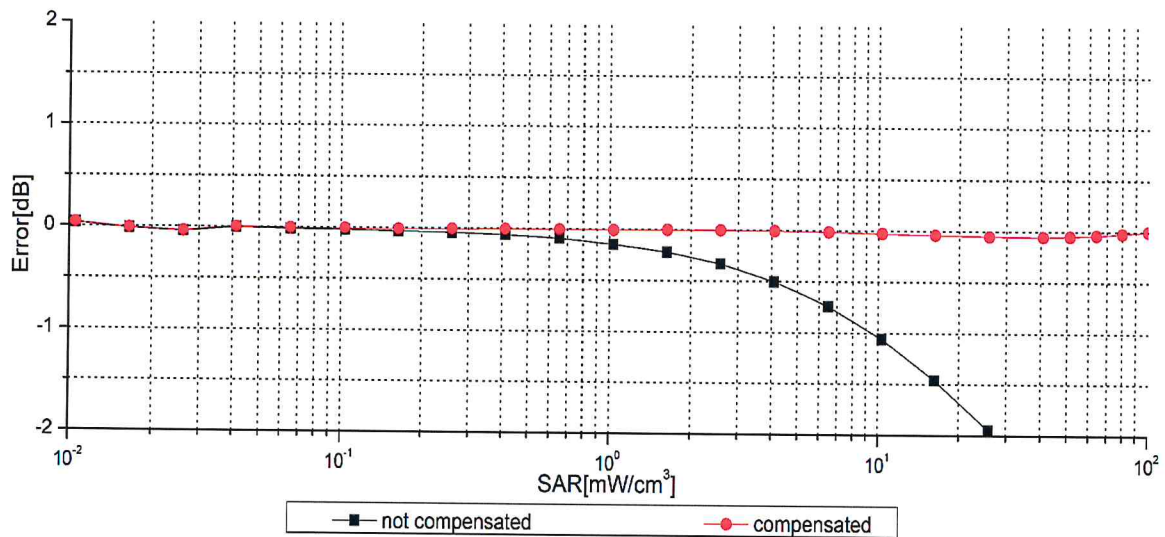
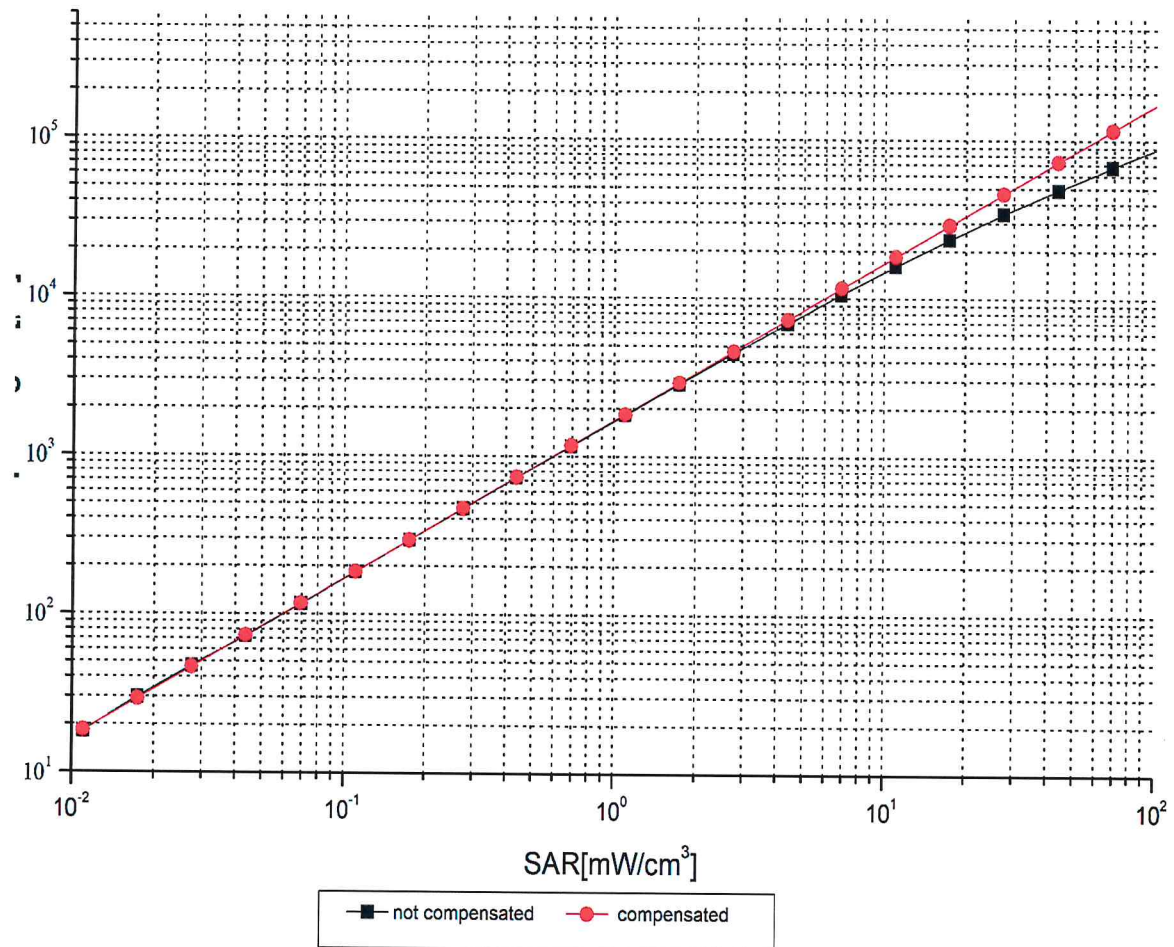
f=1800 MHz, R22



Uncertainty of Axial Isotropy Assessment: $\pm 1.2\%$ ($k=2$)



Dynamic Range f(SAR_{head}) (TEM cell, f = 900 MHz)



Uncertainty of Linearity Assessment: $\pm 0.9\%$ ($k=2$)



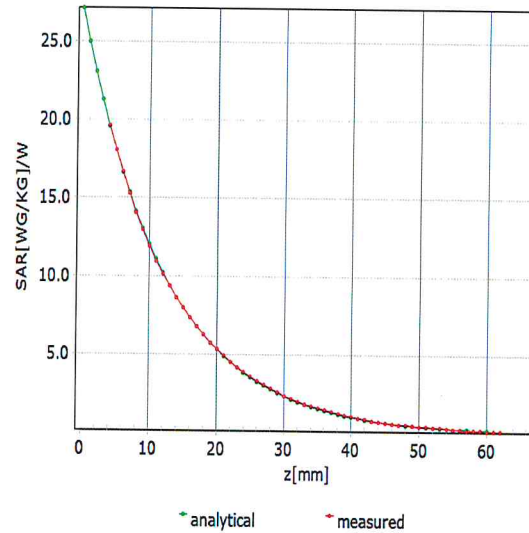
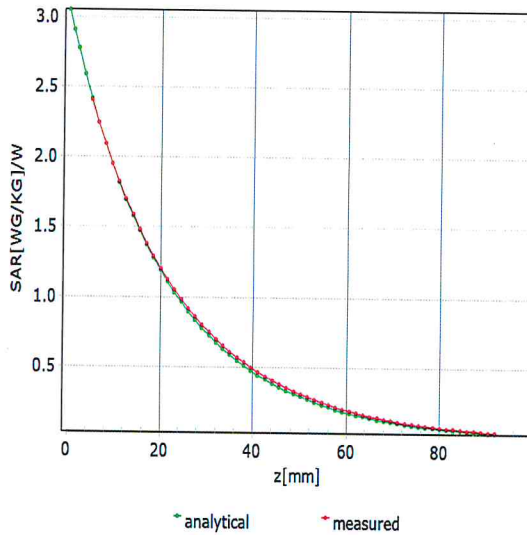
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Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com [Http://www.chinattl.cn](http://www.chinattl.cn)

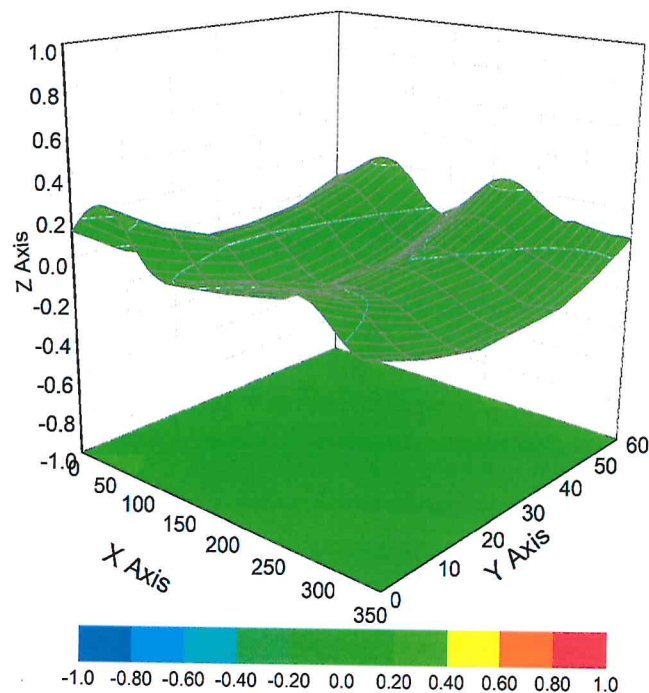
Conversion Factor Assessment

f=750 MHz,WGLS R9(H_convF)

f=1750 MHz,WGLS R22(H_convF)



Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment: $\pm 3.2\%$ ($k=2$)



DASY/EASY – Parameters of Probe: ES3DV3 – SN:3279

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	170.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	10mm
Tip Diameter	4mm
Probe Tip to Sensor X Calibration Point	2mm
Probe Tip to Sensor Y Calibration Point	2mm
Probe Tip to Sensor Z Calibration Point	2mm
Recommended Measurement Distance from Surface	3mm



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **ES3-3293_Nov19**

CALIBRATION CERTIFICATE

Object **ES3DV3 - SN:3293**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v7
Calibration procedure for dosimetric E-field probes**

Calibration date: **November 25, 2019**

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

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	07-Oct-19 (No. DAE4-660_Oct19)	Oct-20
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
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-19)	In house check: Oct-20

	Name	Function	Signature
Calibrated by:	Leif Klysner	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			
Issued: November 26, 2019			



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

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

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3293

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	1.09	0.90	0.71	± 10.1 %
DCP (mV) ^B	105.6	104.0	109.8	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	197.9	±3.5 %	± 4.7 %
		Y	0.0	0.0	1.0		199.0		
		Z	0.0	0.0	1.0		206.6		

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 Page 5).

^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:3293

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-4.6
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

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3293

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 ^H (mm)	Unc (k=2)
750	41.9	0.89	6.56	6.56	6.56	0.80	1.23	± 12.0 %
835	41.5	0.90	6.39	6.39	6.39	0.80	1.26	± 12.0 %
900	41.5	0.97	6.23	6.23	6.23	0.72	1.30	± 12.0 %
1450	40.5	1.20	5.89	5.89	5.89	0.48	1.49	± 12.0 %
1750	40.1	1.37	5.53	5.53	5.53	0.55	1.38	± 12.0 %
1900	40.0	1.40	5.32	5.32	5.32	0.67	1.30	± 12.0 %
2000	40.0	1.40	5.25	5.25	5.25	0.50	1.55	± 12.0 %
2300	39.5	1.67	4.89	4.89	4.89	0.63	1.42	± 12.0 %
2450	39.2	1.80	4.60	4.60	4.60	0.80	1.33	± 12.0 %
2600	39.0	1.96	4.39	4.39	4.39	0.75	1.41	± 12.0 %

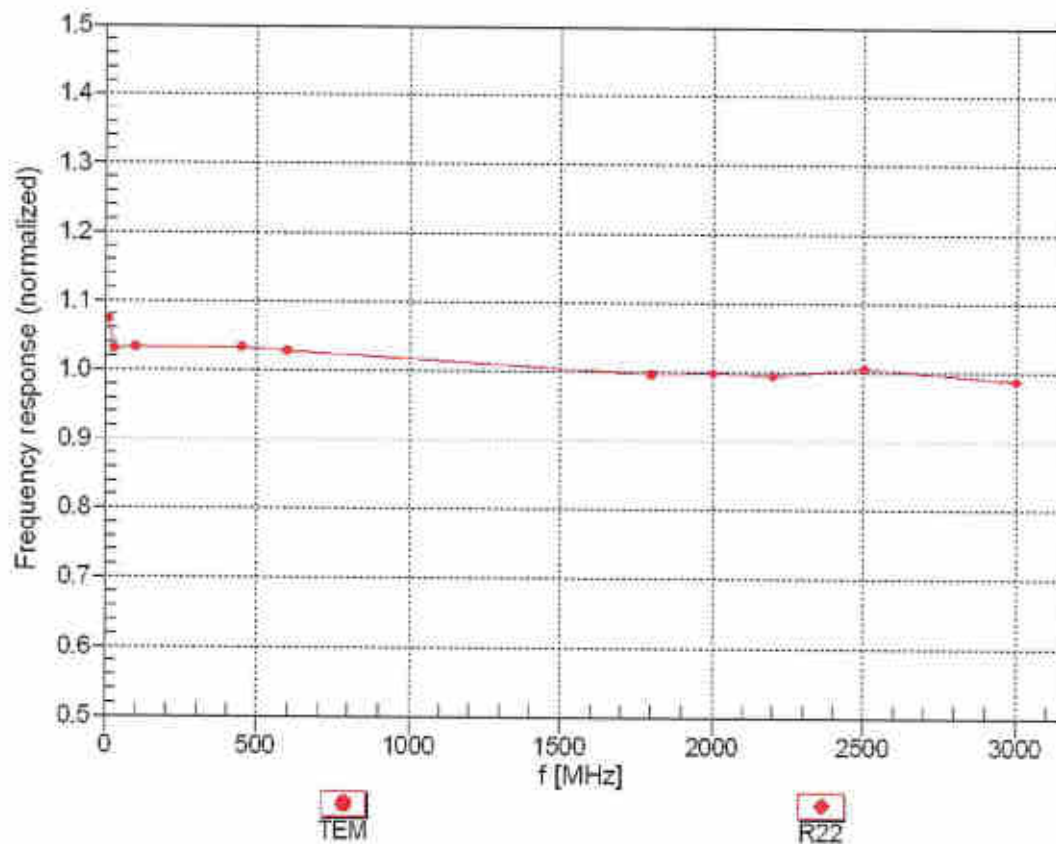
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-8 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

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

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

Frequency Response of E-Field

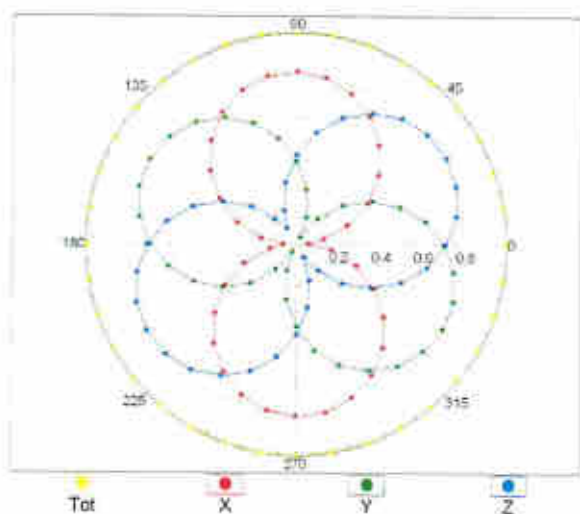
(TEM-Cell: ifi110 EXX, Waveguide: R22)



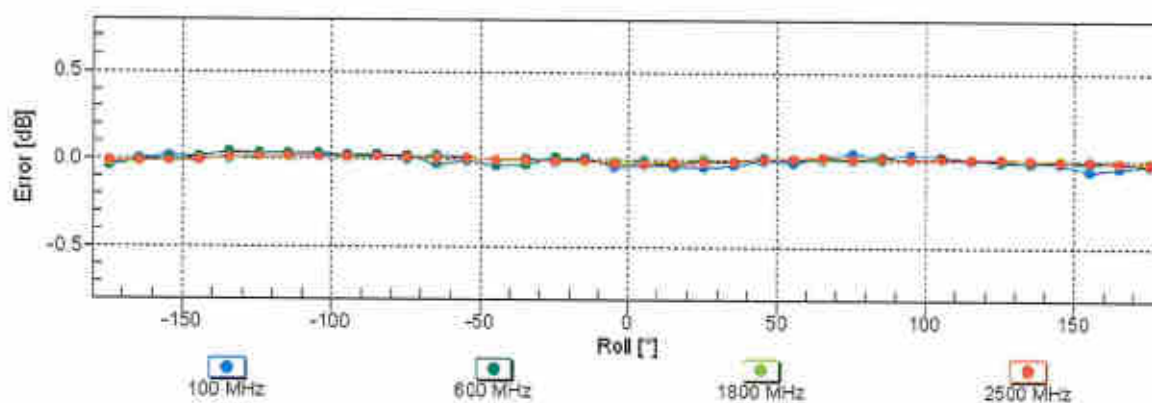
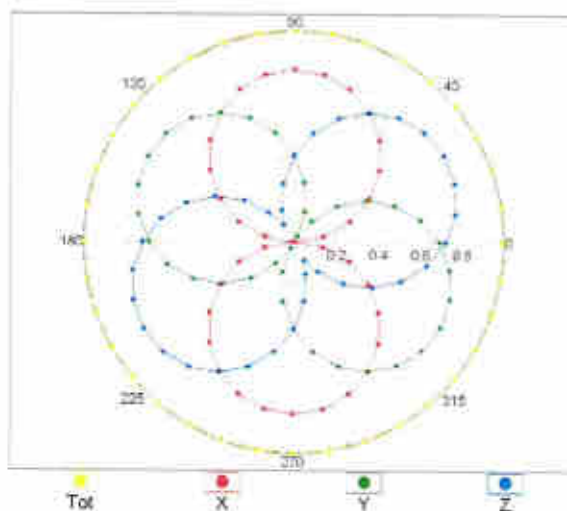
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

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

f=600 MHz,TEM

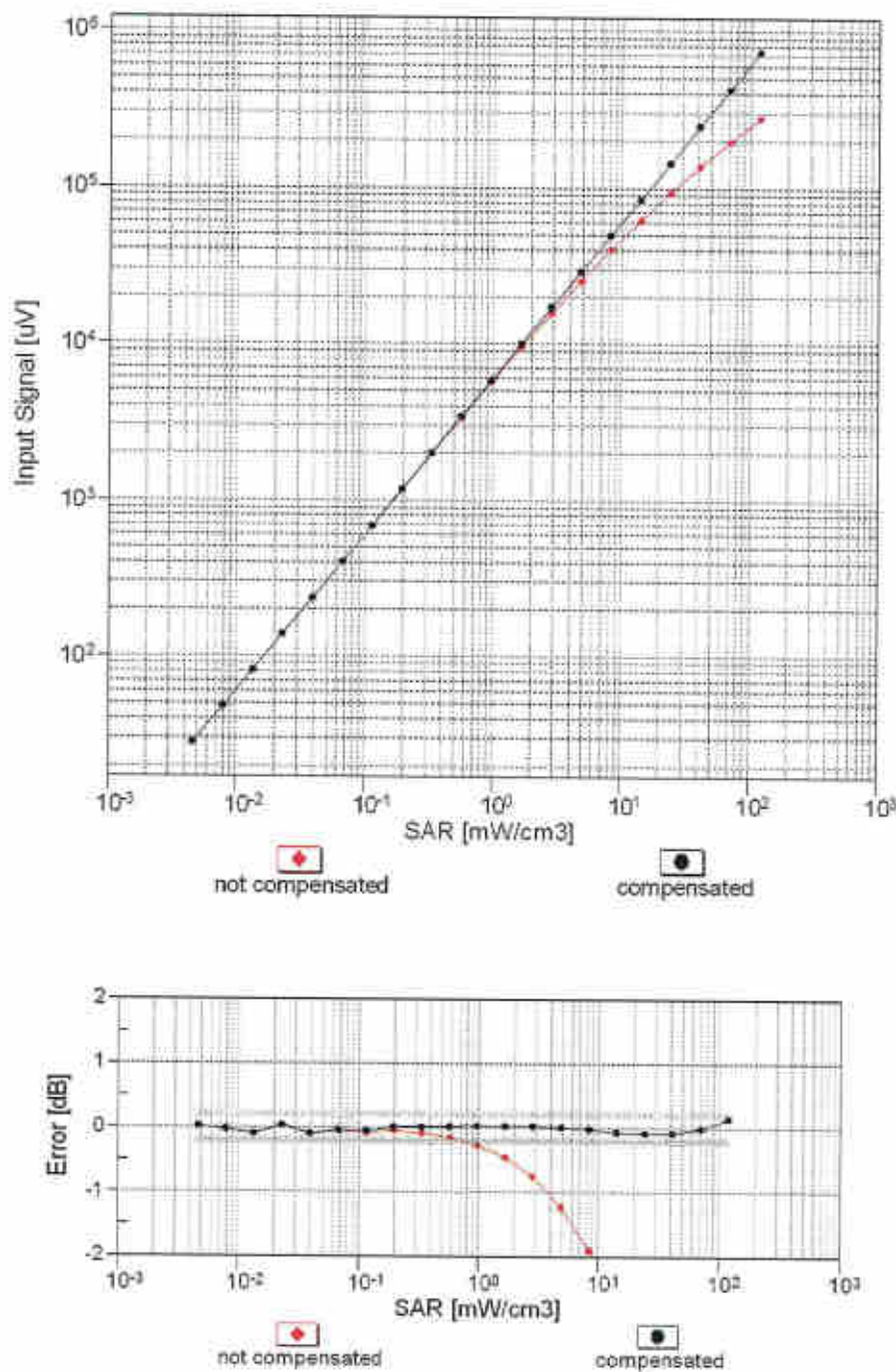


f=1800 MHz,R22



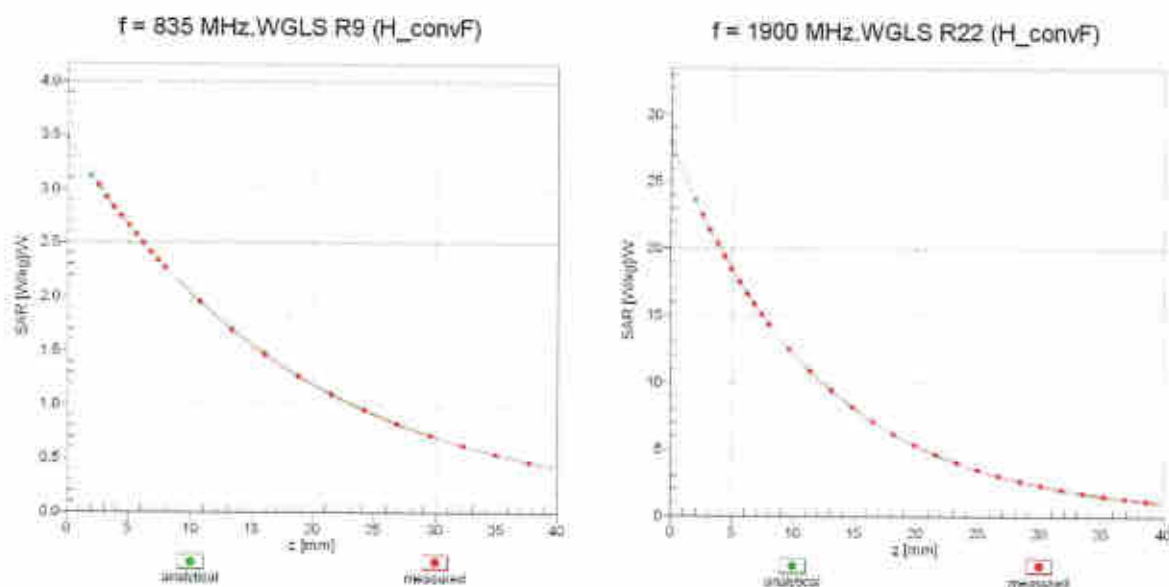
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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



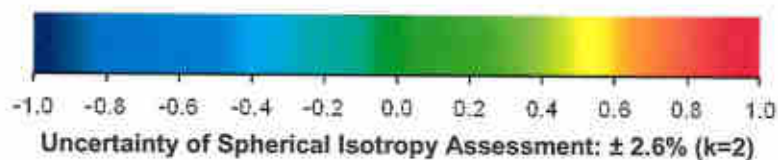
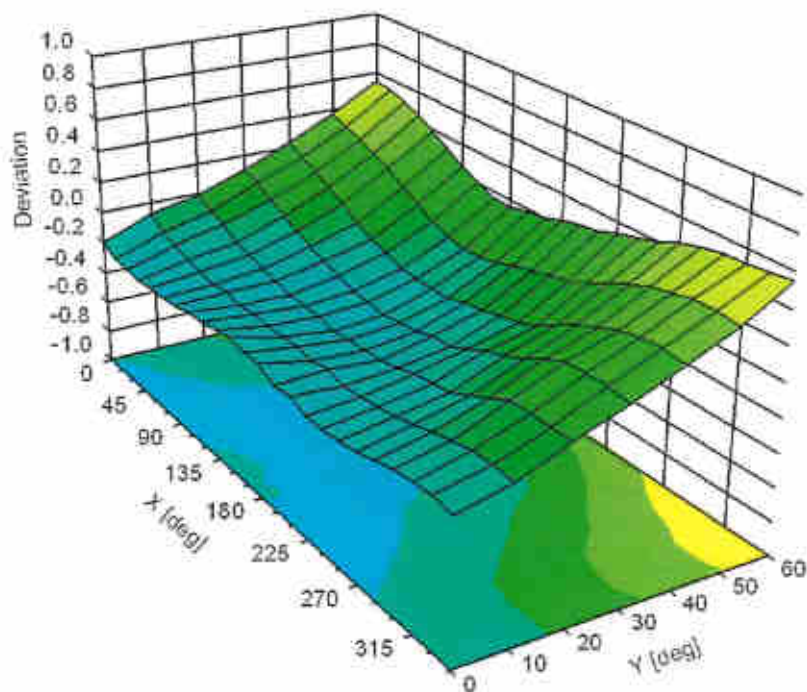
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$



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



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **EX3-3976_Jan20**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3976**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7**
Calibration procedure for dosimetric E-field probes

Calibration date: **January 27, 2020**

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

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	27-Dec-19 (No. DAE4-660_Dec19)	Dec-20
Reference Probe ES3DV2	SN: 3013	31-Dec-19 (No. ES3-3013_Dec19)	Dec-20
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20

	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: February 4, 2020

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Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/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:

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Methods Applied and Interpretation of Parameters:

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3976

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu V/(V/m)^2$) ^A	0.48	0.50	0.54	± 10.1 %
DCP (mV) ^B	104.2	97.4	106.5	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB/μV	C	D dB	VR mV	Max dev.	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	191.8	± 3.0 %	± 4.7 %
		Y	0.00	0.00	1.00		186.3		
		Z	0.00	0.00	1.00		175.8		
10352- AAA	Pulse Waveform (200Hz, 10%)	X	20.00	94.27	22.80	10.00	60.0	± 2.9 %	± 9.6 %
		Y	20.00	92.24	21.74		60.0		
		Z	20.00	93.79	22.86		60.0		
10353- AAA	Pulse Waveform (200Hz, 20%)	X	20.00	99.71	24.52	6.99	80.0	± 1.9 %	± 9.6 %
		Y	20.00	94.54	21.52		80.0		
		Z	20.00	94.46	22.10		80.0		
10354- AAA	Pulse Waveform (200Hz, 40%)	X	20.00	112.84	29.50	3.98	95.0	± 1.2 %	± 9.6 %
		Y	20.00	97.96	21.49		95.0		
		Z	20.00	101.35	24.09		95.0		
10355- AAA	Pulse Waveform (200Hz, 60%)	X	20.00	141.13	41.02	2.22	120.0	± 1.4 %	± 9.6 %
		Y	20.00	112.18	26.31		120.0		
		Z	20.00	111.64	27.45		120.0		
10387- AAA	QPSK Waveform, 1 MHz	X	20.00	102.43	23.93	0.00	150.0	± 2.8 %	± 9.6 %
		Y	0.53	60.11	7.40		150.0		
		Z	0.96	65.89	11.65		150.0		
10388- AAA	QPSK Waveform, 10 MHz	X	3.27	75.78	19.98	0.00	150.0	± 1.1 %	± 9.6 %
		Y	2.23	68.86	16.32		150.0		
		Z	2.57	71.08	17.44		150.0		
10396- AAA	64-QAM Waveform, 100 kHz	X	3.94	77.03	22.30	3.01	150.0	± 1.2 %	± 9.6 %
		Y	2.66	69.29	18.75		150.0		
		Z	3.79	75.30	21.02		150.0		
10399- AAA	64-QAM Waveform, 40 MHz	X	3.91	69.68	17.48	0.00	150.0	± 2.0 %	± 9.6 %
		Y	3.48	67.32	16.03		150.0		
		Z	3.66	68.29	16.51		150.0		
10414- AAA	WLAN CCDF, 64-QAM, 40MHz	X	4.94	66.38	16.22	0.00	150.0	± 4.0 %	± 9.6 %
		Y	4.77	65.66	15.68		150.0		
		Z	4.94	66.22	15.93		150.0		

Note: For details on UID parameters see Appendix

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 Page 5).

^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:3976

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $ms.V^{-2}$	T2 $ms.V^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	43.7	320.71	34.86	15.41	0.32	5.10	1.25	0.27	1.01
Y	39.8	301.78	36.70	10.48	0.56	5.08	0.00	0.43	1.01
Z	45.2	331.44	34.65	19.40	0.54	5.10	1.65	0.25	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle ($^{\circ}$)	-5.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3976

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	10.23	10.23	10.23	0.65	0.80	± 12.0 %
835	41.5	0.90	10.16	10.16	10.16	0.48	0.88	± 12.0 %
900	41.5	0.97	9.89	9.89	9.89	0.52	0.80	± 12.0 %
1450	40.5	1.20	8.97	8.97	8.97	0.48	0.80	± 12.0 %
1750	40.1	1.37	8.63	8.63	8.63	0.34	0.80	± 12.0 %
1900	40.0	1.40	8.33	8.33	8.33	0.29	0.80	± 12.0 %
2000	40.0	1.40	8.30	8.30	8.30	0.36	0.80	± 12.0 %
2300	39.5	1.67	7.89	7.89	7.89	0.35	0.80	± 12.0 %
2450	39.2	1.80	7.74	7.74	7.74	0.33	0.80	± 12.0 %
2600	39.0	1.96	7.48	7.48	7.48	0.38	0.80	± 12.0 %
3500	37.9	2.91	7.15	7.15	7.15	0.30	1.35	± 14.0 %
3700	37.7	3.12	6.92	6.92	6.92	0.30	1.35	± 14.0 %
5250	35.9	4.71	5.37	5.37	5.37	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.85	4.85	4.85	0.40	1.80	± 14.0 %
5750	35.4	5.22	4.87	4.87	4.87	0.40	1.80	± 14.0 %

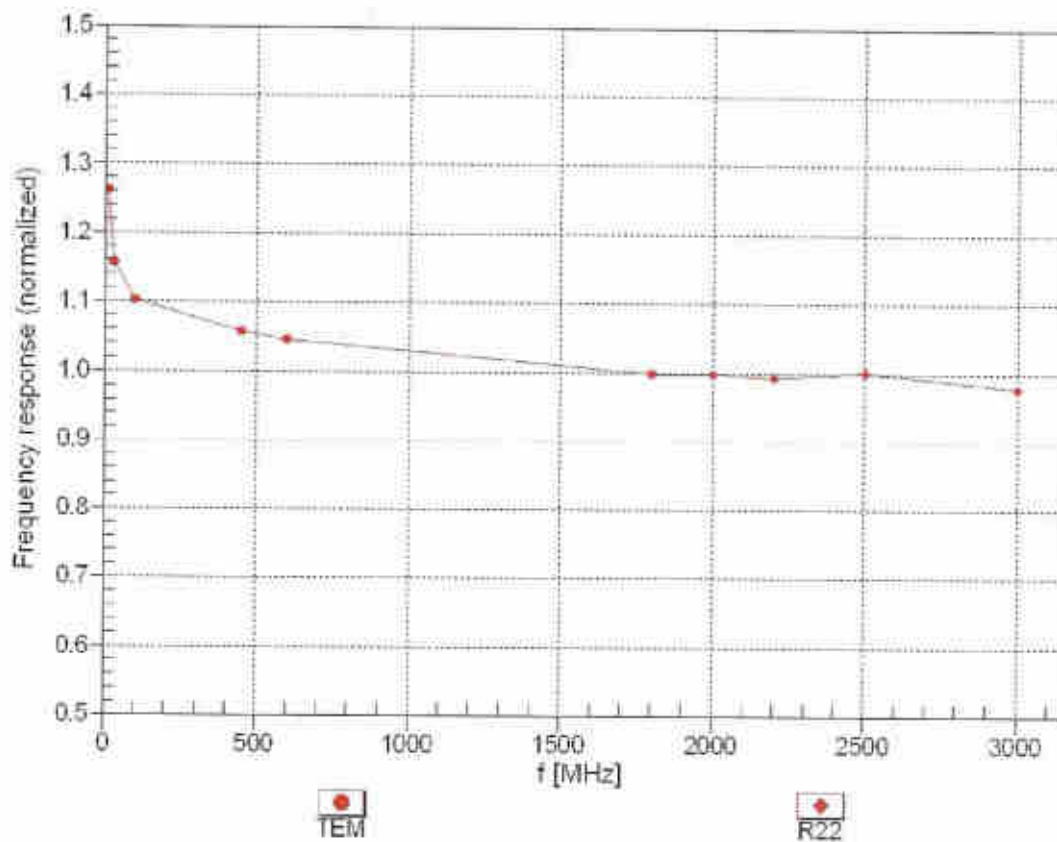
^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is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

^f At frequencies up to 6 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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

Frequency Response of E-Field

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



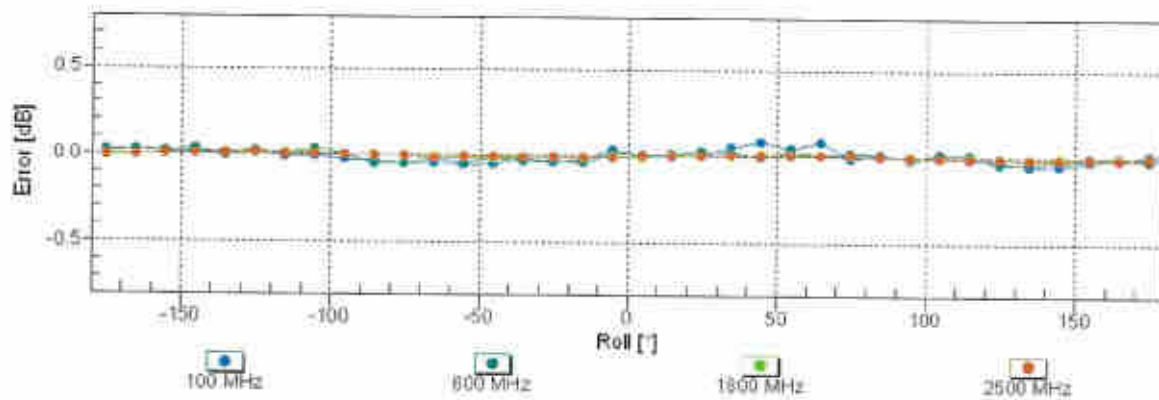
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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

f=600 MHz,TEM

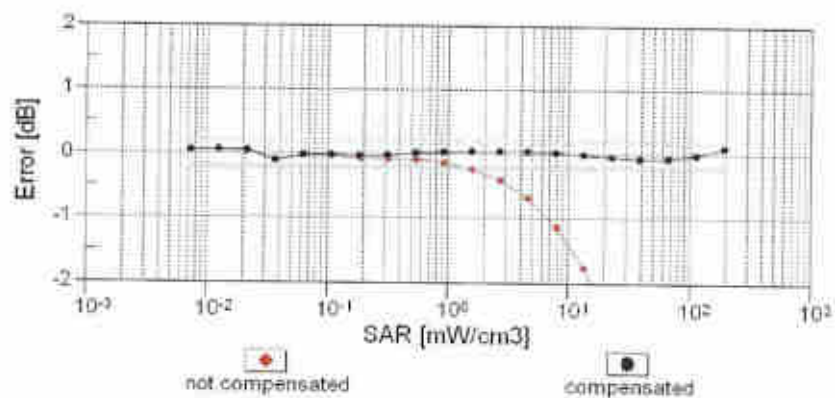
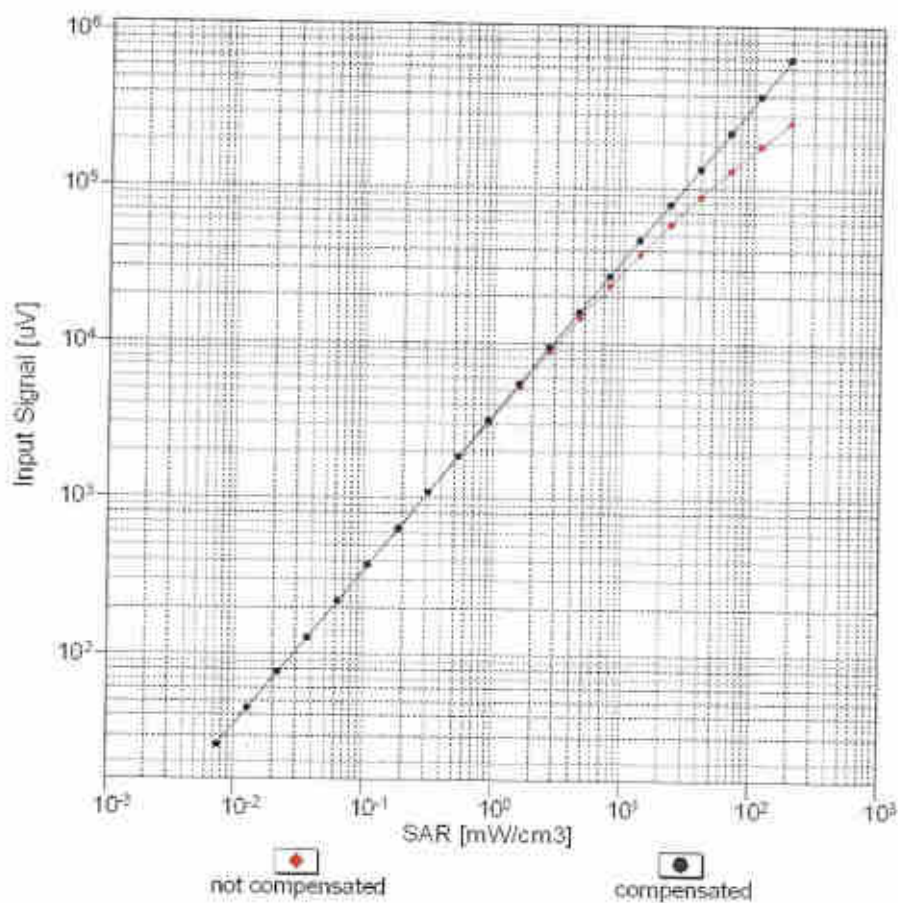


f=1800 MHz,R22



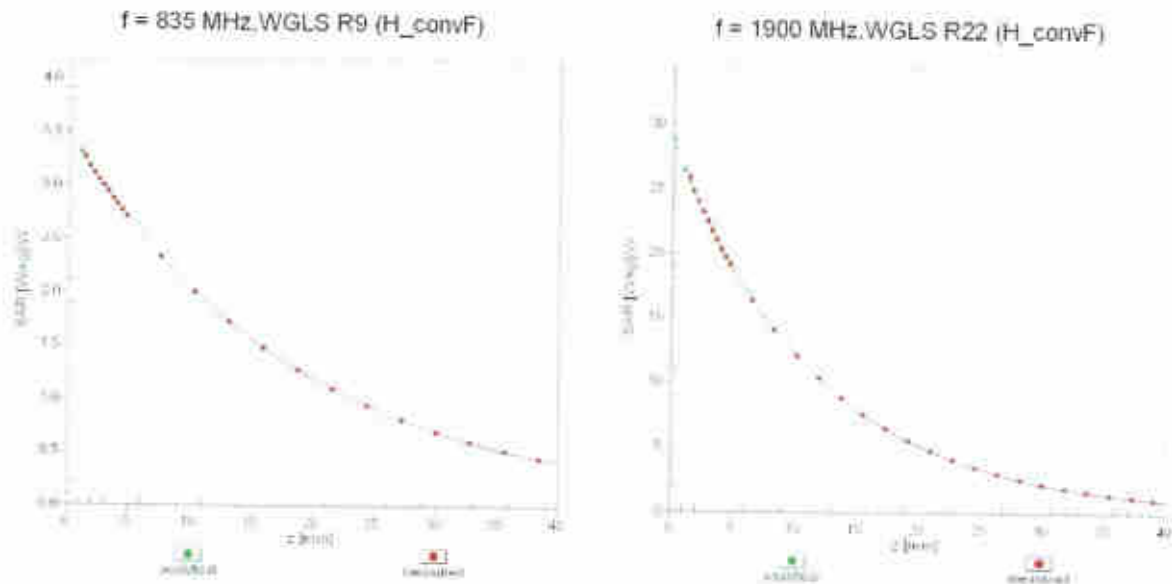
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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



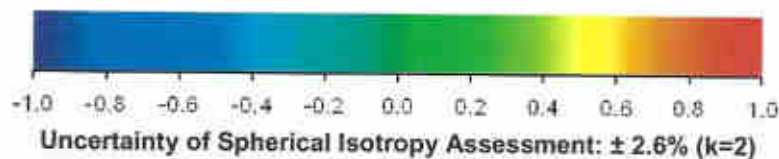
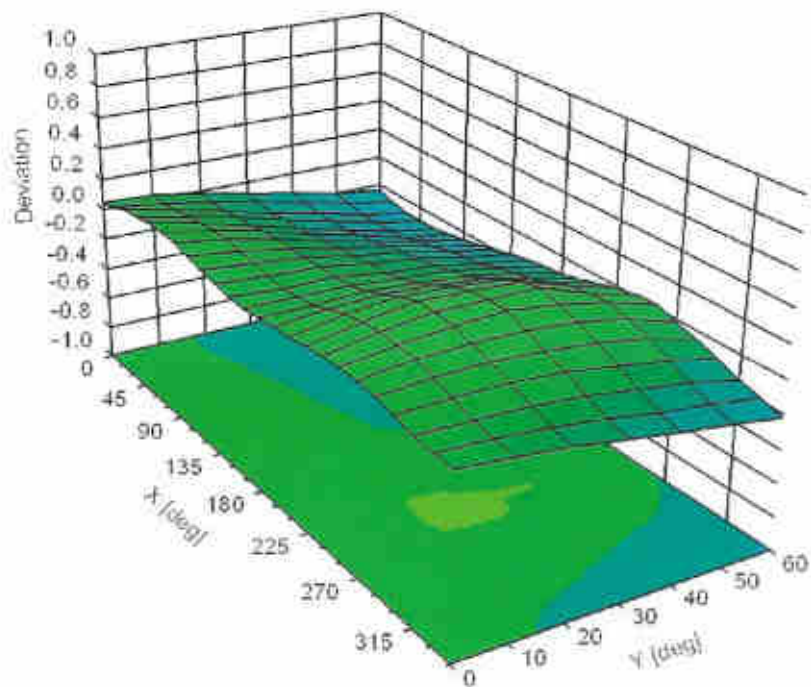
Uncertainty of Linearity Assessment: $\pm 0.6\%$ (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %

10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6 %
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6 %
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6 %
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6 %
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6 %
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6 %
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6 %
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 %
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6 %
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 %
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6 %
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 %
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6 %
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 %
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6 %
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6 %
10195	CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6 %
10196	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6 %
10197	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6 %
10198	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6 %
10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6 %

10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6 %
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6 %
10226	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6 %
10227	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6 %
10228	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6 %
10229	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10230	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10231	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6 %
10232	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10233	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10234	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10235	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10236	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10237	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6 %
10242	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6 %
10243	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6 %
10245	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6 %
10246	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6 %
10251	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6 %
10252	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6 %
10257	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6 %
10258	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6 %
10260	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6 %
10261	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6 %
10266	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6 %
10267	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	±9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6 %
10275	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6 %
10277	CAA	PHS (QPSK)	PHS	11.81	±9.6 %
10278	CAA	PHS (QPSK, BW 884MHz, Roll-off 0.5)	PHS	11.81	±9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, Roll-off 0.38)	PHS	12.18	±9.6 %
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6 %
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6 %
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6 %
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6 %
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6 %
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6 %

10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	± 9.6 %
10302	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	WiMAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	WiMAX	15.24	± 9.6 %
10306	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	WiMAX	14.67	± 9.6 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	WiMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	± 9.6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	± 9.6 %
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAA	iDEN 1:3	iDEN	10.51	± 9.6 %
10314	AAA	iDEN 1:6	iDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAB	CDMA2000, RC3, SC32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10410	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10417	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	WLAN	8.19	± 9.6 %
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %

10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAD	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	± 9.6 %
10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	± 9.6 %
10464	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10467	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10469	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	± 9.6 %
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	± 9.6 %
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	± 9.6 %
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	± 9.6 %
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	± 9.6 %
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	± 9.6 %
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	± 9.6 %
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	± 9.6 %
10487	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	± 9.6 %
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	± 9.6 %
10489	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %

10491	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	± 9.6 %
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	± 9.6 %
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10497	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	± 9.6 %
10498	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	± 9.6 %
10499	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	± 9.6 %
10500	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	± 9.6 %
10501	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	± 9.6 %
10502	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	± 9.6 %
10503	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	± 9.6 %
10504	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	± 9.6 %
10505	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10506	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10507	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	± 9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	± 9.6 %
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	± 9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	± 9.6 %
10511	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	± 9.6 %
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	± 9.6 %
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	± 9.6 %
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	± 9.6 %
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	± 9.6 %
10518	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	± 9.6 %
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	WLAN	8.21	± 9.6 %
10528	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	WLAN	8.38	± 9.6 %

10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	± 9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	± 9.6 %
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	± 9.6 %
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	± 9.6 %
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	± 9.6 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	± 9.6 %
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10583	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10586	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %

10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6 %
10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6 %
10646	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6 %
10652	AAE	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6 %
10653	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6 %

10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6 %
10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6 %
10671	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6 %
10672	AAA	IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6 %
10673	AAA	IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6 %
10674	AAA	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6 %
10675	AAA	IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6 %
10676	AAA	IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10677	AAA	IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6 %
10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6 %
10679	AAA	IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6 %
10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6 %
10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6 %
10682	AAA	IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6 %
10684	AAA	IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6 %
10685	AAA	IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6 %
10686	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6 %
10687	AAA	IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6 %
10688	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6 %
10689	AAA	IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6 %
10690	AAA	IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6 %
10691	AAA	IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6 %
10706	AAA	IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6 %
10707	AAA	IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6 %
10708	AAA	IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6 %
10709	AAA	IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6 %
10710	AAA	IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6 %
10711	AAA	IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6 %
10712	AAA	IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6 %
10713	AAA	IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6 %
10714	AAA	IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6 %
10715	AAA	IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6 %
10716	AAA	IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9.6 %
10717	AAA	IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)	WLAN	8.48	±9.6 %
10718	AAA	IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.6 %
10719	AAA	IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6 %
10720	AAA	IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6 %
10721	AAA	IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6 %
10722	AAA	IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6 %
10723	AAA	IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6 %
10724	AAA	IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.6 %
10725	AAA	IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6 %
10726	AAA	IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6 %

10727	AAA	IEEE 802.11ax (80MHz, MCS8, 90pc duty cycle)	WLAN	8.66	± 9.6 %
10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc duty cycle)	WLAN	8.65	± 9.6 %
10729	AAA	IEEE 802.11ax (80MHz, MCS10, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10730	AAA	IEEE 802.11ax (80MHz, MCS11, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10731	AAA	IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10732	AAA	IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10733	AAA	IEEE 802.11ax (80MHz, MCS2, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10734	AAA	IEEE 802.11ax (80MHz, MCS3, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10735	AAA	IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10736	AAA	IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10737	AAA	IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10738	AAA	IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10739	AAA	IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10740	AAA	IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10741	AAA	IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10742	AAA	IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10743	AAA	IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10744	AAA	IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)	WLAN	9.16	± 9.6 %
10745	AAA	IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)	WLAN	8.93	± 9.6 %
10746	AAA	IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10747	AAA	IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)	WLAN	9.04	± 9.6 %
10748	AAA	IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)	WLAN	8.93	± 9.6 %
10749	AAA	IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10750	AAA	IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10751	AAA	IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10752	AAA	IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10753	AAA	IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)	WLAN	9.00	± 9.6 %
10754	AAA	IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10755	AAA	IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)	WLAN	8.64	± 9.6 %
10756	AAA	IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10757	AAA	IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10758	AAA	IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10759	AAA	IEEE 802.11ax (160MHz, MCS4, 99pc duty cycle)	WLAN	8.58	± 9.6 %
10760	AAA	IEEE 802.11ax (160MHz, MCS5, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10761	AAA	IEEE 802.11ax (160MHz, MCS6, 99pc duty cycle)	WLAN	8.58	± 9.6 %
10762	AAA	IEEE 802.11ax (160MHz, MCS7, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10763	AAA	IEEE 802.11ax (160MHz, MCS8, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10764	AAA	IEEE 802.11ax (160MHz, MCS9, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10765	AAA	IEEE 802.11ax (160MHz, MCS10, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10766	AAA	IEEE 802.11ax (160MHz, MCS11, 99pc duty cycle)	WLAN	8.51	± 9.6 %
10767	AAB	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAB	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAB	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAB	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAB	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAB	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAB	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10776	AAB	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAB	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10780	AAB	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAB	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %

10782	AAB	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAB	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10784	AAB	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10785	AAB	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAB	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAB	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAB	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAB	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAB	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAB	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAB	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAB	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAB	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAB	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAB	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAB	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAB	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAB	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAB	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAB	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAB	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAB	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAB	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAB	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAB	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAB	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAB	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAB	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAB	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAB	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10822	AAB	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10823	AAB	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %

10824	AAB	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAB	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAB	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAB	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAB	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAB	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAB	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAB	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAB	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAB	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAB	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAB	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAB	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAB	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAB	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAB	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAB	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAB	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAB	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAB	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAB	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAB	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAB	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10860	AAB	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10861	AAB	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAB	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAB	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAB	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %

10870	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %

^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 E. Conducted RF Output Power Table

The detailed power table are shown as follows.

Full Power Mode for ANT0

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	834.2	835.4	848.8		834.2	835.4	848.8	
GSM 1 Tx slot	31.65	31.88	31.79	33.00	22.65	22.88	22.79	24.00
GPRS 1 Tx slot	31.64	31.96	31.78	33.00	22.64	22.96	22.78	24.00
GPRS 2 Tx slots	30.29	30.28	30.01	31.00	24.29	24.28	24.01	25.00
GPRS 3 Tx slots	28.21	28.27	27.96	29.00	23.95	24.01	23.70	24.74
GPRS 4 Tx slots	26.26	26.25	26.11	27.00	23.26	23.25	23.11	24.00
EDGE 1 Tx slot	25.81	26.02	25.70	27.00	18.81	17.02	16.70	18.00
EDGE 2 Tx slots	24.99	24.94	24.51	26.00	18.99	18.94	18.51	20.00
EDGE 3 Tx slots	23.06	22.95	22.63	24.00	16.80	16.69	16.37	19.74
EDGE 4 Tx slots	21.03	21.01	20.80	22.00	16.03	16.01	17.80	19.00

Band		WCDMA V			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	830.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	24.10	24.05	23.89	24.50
3GPP Rel 99	AMR 12.3Kbps	24.13	24.14	23.90	24.50
3GPP Rel 6	HSDPA Subtest-1	23.20	23.09	22.89	23.50
3GPP Rel 6	HSDPA Subtest-2	23.24	23.12	22.89	23.50
3GPP Rel 6	HSDPA Subtest-3	22.74	22.60	22.39	23.00
3GPP Rel 6	HSDPA Subtest-4	22.73	22.58	22.40	23.00
3GPP Rel 6	DC-HSDPA Subtest-1	23.02	22.96	22.82	23.50
3GPP Rel 6	DC-HSDPA Subtest-2	23.06	22.99	22.82	23.50
3GPP Rel 6	DC-HSDPA Subtest-3	22.96	22.47	22.32	23.00
3GPP Rel 6	DC-HSDPA Subtest-4	22.55	22.45	22.33	23.00
3GPP Rel 6	HSUPA Subtest-1	23.21	23.09	22.86	23.50
3GPP Rel 6	HSUPA Subtest-2	21.19	21.10	20.86	21.50
3GPP Rel 6	HSUPA Subtest-3	22.16	22.08	21.85	22.50
3GPP Rel 6	HSUPA Subtest-4	21.17	21.11	20.90	21.50
3GPP Rel 6	HSUPA Subtest-5	23.20	23.10	22.90	23.50

Band 5 (Cellular Band) Part 22H(only on channel required)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	23.09	23.22	22.86	24	0	
10	QPSK	1	25	22.94	22.99	22.79			
10	QPSK	1	49	22.85	22.85	22.89			
10	QPSK	25	0	22.14	22.21	21.87	23	1	
10	QPSK	25	12	22.20	22.10	21.88			
10	QPSK	25	25	22.07	22.09	21.90			
10	QPSK	50	0	22.19	22.20	21.84	23	1	
10	16QAM	1	0	22.40	22.30	22.48			
10	16QAM	1	25	22.46	22.39	22.17			
10	16QAM	1	49	22.28	22.22	22.07	22	2	
10	16QAM	25	0	21.13	21.08	20.94			
10	16QAM	25	12	21.09	21.05	20.86			
10	16QAM	25	25	21.10	21.07	20.92	22	2	
10	16QAM	50	0	21.23	21.15	20.82			
10	64QAM	1	0	21.28	21.25	21.33			
10	64QAM	1	25	21.15	21.15	21.19	22	2	
10	64QAM	1	49	21.10	21.03	21.09			
10	64QAM	25	0	20.21	20.13	20.09			
10	64QAM	25	12	20.22	20.14	19.92	21	3	
10	64QAM	25	25	20.09	20.09	20.15			
10	64QAM	50	0	20.22	20.01	20.12			
Channel				20450	20525	20625	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	23.21	23.05	22.91	24	0	
5	QPSK	1	12	23.15	23.06	22.84			
5	QPSK	1	24	23.09	22.97	22.75			
5	QPSK	12	0	22.27	22.09	21.92	23	1	
5	QPSK	12	7	22.17	22.03	21.90			
5	QPSK	12	13	22.12	21.99	21.88			
5	QPSK	25	0	22.21	22.12	21.88	23	1	
5	16QAM	1	0	22.48	22.36	22.22			
5	16QAM	1	12	22.35	22.35	22.21			
5	16QAM	1	24	22.36	22.27	22.12	22	2	
5	16QAM	12	0	21.27	21.14	21.01			
5	16QAM	12	7	21.19	21.05	21.00			
5	16QAM	12	13	21.14	21.00	20.85	22	2	
5	16QAM	25	0	21.19	21.09	20.92			
5	64QAM	1	0	21.41	21.24	21.15			
5	64QAM	1	12	21.25	21.20	21.12	22	2	
5	64QAM	1	24	21.30	21.30	20.91			
5	64QAM	12	0	20.31	20.02	20.05			
5	64QAM	12	7	20.15	20.10	20.12	21	3	
5	64QAM	12	13	20.10	20.11	19.92			
5	64QAM	25	0	20.26	20.08	20.00			
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	23.01	22.81	23.12	24	0	
3	QPSK	1	8	22.98	22.89	23.18			
3	QPSK	1	14	22.97	22.82	23.11			
3	QPSK	8	0	22.15	21.94	22.28	23	1	
3	QPSK	8	4	22.11	22.02	22.25			
3	QPSK	8	7	22.04	21.98	22.15			
3	QPSK	15	0	22.13	21.96	22.21	23	1	
3	16QAM	1	0	22.36	22.09	22.44			
3	16QAM	1	8	22.28	22.14	22.47			
3	16QAM	1	14	22.31	22.15	22.36	22	2	
3	16QAM	8	0	21.19	20.93	21.28			
3	16QAM	8	4	21.13	21.01	21.30			
3	16QAM	8	7	21.08	20.98	21.26	22	2	
3	16QAM	15	0	21.15	20.98	21.25			
3	64QAM	1	0	21.38	21.12	21.36			
3	64QAM	1	8	21.16	20.96	21.31	22	2	
3	64QAM	1	14	21.18	20.93	21.36			
3	64QAM	8	0	20.26	19.87	20.33			
3	64QAM	8	4	20.03	20.09	20.32	21	3	
3	64QAM	8	7	20.14	20.00	20.07			
3	64QAM	15	0	20.08	19.98	20.11			
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	23.01	23.01	23.04	24	0	
1.4	QPSK	1	3	22.93	23.03	23.05			
1.4	QPSK	1	5	23.03	23.11	23.09			
1.4	QPSK	3	0	22.15	22.31	22.20	23	1	
1.4	QPSK	3	1	22.16	22.23	22.26			
1.4	QPSK	3	3	22.08	22.32	22.24			
1.4	QPSK	6	0	22.20	22.25	22.15	23	1	
1.4	16QAM	1	0	22.35	22.43	22.45			
1.4	16QAM	1	3	22.32	22.53	22.46			
1.4	16QAM	1	5	22.35	22.40	22.40	23	1	
1.4	16QAM	3	0	21.11	21.37	21.25			
1.4	16QAM	3	1	21.12	21.26	21.31			
1.4	16QAM	3	3	21.16	21.27	21.05	22	2	
1.4	16QAM	6	0	21.21	21.33	21.23			
1.4	64QAM	1	0	21.28	21.28	21.27			
1.4	64QAM	1	3	21.15	21.37	21.39	22	2	
1.4	64QAM	1	5	21.01	21.50	21.14			
1.4	64QAM	3	0	21.10	21.24	20.86			
1.4	64QAM	3	1	21.08	21.17	21.15	21	3	
1.4	64QAM	3	3	21.08	20.94	20.87			
1.4	64QAM	6	0	20.17	20.20	20.29			

Band 12 (700MHz Low Band) Part 27F(only on channel required)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	23.06	23.30	23.26	24	0	
10	QPSK	1	25	22.98	23.01	23.13			
10	QPSK	1	49	23.08	23.09	23.17			
10	QPSK	25	0	22.20	22.35	22.28	23	1	
10	QPSK	25	12	22.21	22.21	22.34			
10	QPSK	25	25	22.13	22.30	22.32			
10	QPSK	50	0	22.25	22.26	22.23	23	1	
10	16QAM	1	0	22.40	22.41	22.53			
10	16QAM	1	25	22.37	22.51	22.54			
10	16QAM	1	49	22.41	22.38	22.48	22	2	
10	16QAM	25	0	21.16	21.35	21.33			
10	16QAM	25	12	21.17	21.24	21.39			
10	16QAM	25	25	21.21	21.25	21.13	22	2	
10	16QAM	50	0	21.26	21.31	21.31			
10	64QAM	1	0	21.31	21.26	21.35			
10	64QAM	1	25	21.20	21.35	21.47	22	2	
10	64QAM	1	49	21.06	21.48	21.22			
10	64QAM	25	0	20.35	20.42	20.14			
10	64QAM	25	12	20.33	20.35	20.43	21	3	
10	64QAM	25	25	20.33	20.12	20.15			
10	64QAM	50	0	20.22	20.18	20.37			
Channel				23035	23095	23165	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	23.08	23.11	23.20	24	0	
5	QPSK	1	12	23.05	23.19	23.26			
5	QPSK	1	24	23.04	23.12	23.19			
5	QPSK	12	0	22.22	22.24	22.36	23	1	
5	QPSK	12	7	22.18	22.32	22.33			
5	QPSK	12	13	22.11	22.28	22.23			
5	QPSK	25	0	22.20	22.26	22.52	23	1	
5	16QAM	1	0	22.43	22.39	22.29			
5	16QAM	1	12	22.35	22.44	22.55	23	1	
5	16QAM	1	24	22.38	22.45	22.24			
5	16QAM	12	0	21.26	21.23	21.36	22	2	
5	16QAM	12	7	21.20	21.31	21.38			
5	16QAM	12	13	21.15	21.28	21.34			
5	16QAM	25	0	21.22	21.28	21.33	22	2	
5	64QAM	1	0	21.45	21.42	21.44			
5	64QAM	1	12	21.23	21.28	21.39			
5	64QAM	1	24	21.25	21.23	21.44	21	3	
5	64QAM	12	0	20.33	20.17	20.41			
5	64QAM	12	7	20.10	20.39	20.40			
5	64QAM	12	13	20.21	20.30	20.15	21	3	
5	64QAM	25	0	20.15	20.28	20.19			
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5	707.5	714.5			
3	QPSK	1	0	23.16	23.07	22.84	24	0	
3	QPSK	1	14	23.10	23.08	22.77			
3	QPSK	1	14	23.04	22.99	22.68			
3	QPSK	8	0	22.22	22.11	21.85	23	1	
3	QPSK	8	4	22.12	22.05	21.83			
3	QPSK	8	7	22.07	22.01	21.81			
3	QPSK	15	0	22.16	22.14	21.81	23	1	
3	16QAM	1	0	22.43	22.38	22.15			
3	16QAM	1	8	22.30	22.37	22.14			
3	16QAM	1	14	22.31	22.29	22.05	22	2	
3	16QAM	8	0	21.22	21.16	20.94			
3	16QAM	8	4	21.14	21.07	20.93			
3	16QAM	8	7	21.09	21.02	20.78	22	2	
3	16QAM	15	0	21.14	21.11	20.85			
3	64QAM	1	0	21.24	21.26	21.08			
3	64QAM	1	8	21.20	21.22	21.05	22	2	
3	64QAM	1	14	21.25	21.32	20.84			
3	64QAM	8	0	20.26	20.04	19.88			
3	64QAM	8	4	20.10	20.12	20.05	21	3	
3	64QAM	8	7	20.05	20.13	19.85			
3	64QAM	15	0	20.21	20.10	19.93			
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	23.16	23.07	22.83	24	0	
1.4	QPSK	1	3	23.10	23.08	22.76			
1.4	QPSK	1	5	23.04	22.99	22.67			
1.4	QPSK	3	0	22.22	22.11	21.84	23	1	
1.4	QPSK	3	1	22.12	22.05	21.82			
1.4	QPSK	3	3	22.07	22.01	21.80			
1.4	QPSK	6	0	22.16	22.14	21.80	23	1	
1.4	16QAM	1	0	22.43	22.38	22.14			
1.4	16QAM	1	3	22.30	22.37	22.13			
1.4	16QAM	1	5	22.31	22.29	22.04	22	1	
1.4	16QAM	3	0	21.22	21.16	20.93			
1.4	16QAM	3	1	21.14	21.07	20.92			
1.4	16QAM	3	3	21.09	21.02	20.77	22	2	
1.4	16QAM	6	0	21.14	21.11	20.84			
1.4	16QAM	6	0	21.21	21.26	21.07			
1.4	64QAM	1	3	21.20	21.22	21.04	22	2	
1.4	64QAM	1	5	21.25	21.32	20.83			
1.4	64QAM	3	0	21.06	20.84	20.77			
1.4	64QAM	3	1	20.90	20.92	20.84	21	3	
1.4	64QAM	3	3	20.85	20.93	20.64			
1.4	64QAM	6	0	20.21	20.10	19.92	21	3	

Band 17 (700MHz Band) Part 27H(only on channel required)											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				23780	23790	23800					
Frequency (MHz)				709	710	711					
10	QPSK	1	0	23.09	23.29	23.10	24	0			
10	QPSK	1	25	23.20	23.17	23.15					
10	QPSK	1	49	23.16	23.10	23.19					
10	QPSK	25	0	22.21	22.49	22.25					
10	QPSK	25	12	22.35	22.37	22.35	23	1			
10	QPSK	25	25	22.22	22.32	22.39					
10	QPSK	50	0	22.29	22.34	22.24					
10	16QAM	1	0	22.62	22.46	22.47					
10	16QAM	1	25	22.55	22.52	22.54	23	1			
10	16QAM	1	49	22.59	22.46	22.42					
10	16QAM	25	0	21.13	21.33	21.33					
10	16QAM	25	12	21.44	21.36	21.36					
10	16QAM	25	25	21.31	21.43	21.28	22	2			
10	16QAM	50	0	21.20	21.30	21.29					
10	64QAM	1	0	21.49	21.37	21.44					
10	64QAM	1	25	21.46	21.52	21.49					
10	64QAM	1	49	21.45	21.48	21.28	21	3			
10	64QAM	25	0	20.24	20.19	20.32					
10	64QAM	25	12	20.42	20.39	20.32					
10	64QAM	25	25	20.38	20.42	20.37					
10	64QAM	50	0	20.23	20.32	20.28	Tune-up limit (dBm)		MPR (dB)		
Channel				23790	23790	23800					
Frequency (MHz)				709.5	710	710.5					
5	QPSK	1	0	23.10	23.15	23.20	24	0			
5	QPSK	1	12	23.21	23.28	23.20					
5	QPSK	1	24	23.24	23.25	23.21					
5	QPSK	12	0	22.16	22.38	22.34					
5	QPSK	12	7	22.29	22.28	22.40	23	1			
5	QPSK	12	13	22.28	22.37	22.43					
5	QPSK	25	0	22.21	22.29	22.27					
5	16QAM	1	0	22.46	22.39	22.55					
5	16QAM	1	12	22.49	22.51	22.54	23	1			
5	16QAM	1	24	22.54	22.57	22.60					
5	16QAM	12	0	21.22	21.38	21.41					
5	16QAM	12	7	21.26	21.28	21.44					
5	16QAM	12	13	21.27	21.42	21.35	22	2			
5	16QAM	25	0	21.25	21.32	21.36					
5	64QAM	1	0	21.42	21.46	21.57					
5	64QAM	1	12	21.39	21.50	21.48					
5	64QAM	1	24	21.40	21.63	21.56	22	2			
5	64QAM	12	0	20.26	20.35	20.45					
5	64QAM	12	7	20.34	20.41	20.47					
5	64QAM	12	13	20.32	20.42	20.36					
5	64QAM	25	0	20.23	20.31	20.31			21	3	

Band 71												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				133222	133322	133372						
Frequency (MHz)				673	683	688						
20	QPSK	1	0	23.16	23.28	23.25	24	0				
20	QPSK	1	49	23.05	22.98	22.96						
20	QPSK	1	99	22.89	22.86	22.87						
20	QPSK	50	0	22.26	22.27	22.26						
20	QPSK	50	24	22.26	22.06	22.16	23	1				
20	QPSK	50	50	22.14	22.06	22.09						
20	QPSK	100	0	22.15	22.16	22.15						
20	16QAM	1	0	22.50	22.61	22.52						
20	16QAM	1	49	22.49	22.44	22.35	23	1				
20	16QAM	1	99	22.30	22.15	22.23						
20	16QAM	50	0	21.19	21.16	21.19						
20	16QAM	50	24	21.20	21.17	21.11						
20	16QAM	50	50	21.21	21.08	21.14	22	2				
20	16QAM	100	0	21.22	21.13	21.18						
20	64QAM	1	0	21.46	21.24	21.30						
20	64QAM	1	49	21.12	21.19	21.17						
20	64QAM	1	99	21.10	21.06	21.02	22	2				
20	64QAM	50	0	20.23	20.24	20.18						
20	64QAM	50	24	20.30	20.16	20.13						
20	64QAM	50	50	20.15	20.11	20.00						
20	64QAM	100	0	20.24	20.15	20.22	21	3				
Channel				133197	133297	133397				Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				670.5	680.5	690.5						
15	QPSK	1	0	23.26	23.17	23.07				24	0	
15	QPSK	1	37	23.04	23.07	22.92						
15	QPSK	1	74	22.98	22.98	22.90						
15	QPSK	36	0	22.25	22.15	22.14						
15	QPSK	36	20	22.21	22.07	22.10	23	1				
15	QPSK	36	39	22.17	22.04	22.00						
15	QPSK	75	0	22.17	22.14	22.15						
15	16QAM	1	0	22.56	22.40	22.37						
15	16QAM	1	37	22.48	22.57	22.26	23	1				
15	16QAM	1	74	22.36	22.23	22.27						
15	16QAM	36	0	21.24	21.24	21.11						
15	16QAM	36	20	21.17	21.08	21.13						
15	16QAM	36	39	21.11	21.16	21.01	22	2				
15	16QAM	75	0	21.25	21.11	21.08						
15	64QAM	1	0	21.36	21.42	21.21						
15	64QAM	1	37	21.41	21.28	21.10						
15	64QAM	1	74	21.33	21.10	21.03	21	3				
15	64QAM	36	0	20.19	20.20	20.17						
15	64QAM	36	20	20.32	20.17	20.20						
15	64QAM	36	39	20.23	20.22	20.13						
15	64QAM	75	0	20.27	20.16	20.13						
Channel				133172	133272	133422	Tune-up limit (dBm)			MPR (dB)		
Frequency (MHz)				668	678	693						
10	QPSK	1	0	23.17	23.05	23.27	24	0				
10	QPSK	1	25	22.91	23.04	22.93						
10	QPSK	1	49	22.94	22.93	22.88						
10	QPSK	25	0	22.29	22.21	22.06						
10	QPSK	25	12	22.16	22.19	22.13	23	1				
10	QPSK	25	25	22.12	22.16	22.11						
10	QPSK	50	0	22.22	22.15	22.15						
10	16QAM	1	0	22.48	22.51	22.51						
10	16QAM	1	25	22.34	22.43	22.36	23	1				
10	16QAM	1	49	22.42	22.40	22.30						
10	16QAM	25	0	21.16	21.24	21.04						
10	16QAM	25	12	21.22	21.22	21.13						
10	16QAM	25	25	21.15	21.20	21.13	22	2				
10	16QAM	50	0	21.25	21.28	21.15						
10	64QAM	1	0	21.53	21.38	21.23						
10	64QAM	1	25	21.36	21.45	21.48						
10	64QAM	1	49	21.22	21.31	21.21	21	3				
10	64QAM	25	0	20.34	20.21	20.15						
10	64QAM	25	12	20.29	20.23	20.18						
10	64QAM	25	25	20.26	20.27	20.18						
10	64QAM	50	0	20.20	20.24	20.16						
Channel				133147	133247	133447	Tune-up limit (dBm)			MPR (dB)		
Frequency (MHz)				665.5	675.5	695.5						
5	QPSK	1	0	23.22	23.04	23.06	24	0				
5	QPSK	1	12	23.25	23.03	22.99						
5	QPSK	1	24	23.02	23.06	22.85						
5	QPSK	12	0	22.30	22.23	22.06						
5	QPSK	12	7	22.22	22.16	22.08	23	1				
5	QPSK	12	13	22.19	22.15	22.04						
5	QPSK	25	0	22.29	22.17	22.03						
5	16QAM	1	0	22.48	22.53	22.48						
5	16QAM	1	12	22.35	22.37	22.38	23	1				
5	16QAM	1	24	22.36	22.36	22.27						
5	16QAM	12	0	21.30	21.26	21.04						
5	16QAM	12	7	21.25	21.28	21.15						
5	16QAM	12	13	21.23	21.21	20.98	22	2				
5	16QAM	25	0	21.22	21.24	21.05						
5	64QAM	1	0	21.51	21.47	21.37						
5	64QAM	1	12	21.35	21.30	21.26						
5	64QAM	1	24	21.45	21.26	21.15	22	2				
5	64QAM	12	0	20.39	20.22	20.19						
5	64QAM	12	7	20.32	20.33	20.17						
5	64QAM	12	13	20.25	20.24	20.04						
5	64QAM	25	0	20.30	20.26	20.05	21	3				

Full Power Mode for ANT2

GSM/900	Burst Average Power (dBm)			Time-up Limit (dBm)	Frame Average Power (dBm)			Time-up Limit (dBm)
	512	861	810		512	861	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	26.77	29.02	29.00	30.00	19.77	20.02	20.00	21.00
GSM 1 Tx slot	28.75	29.01	28.98	30.00	19.75	20.01	19.98	21.00
GPRS 1 Tx slot	27.10	27.09	26.92	28.00	21.10	21.09	20.92	22.00
GPRS 3 Tx slots	24.97	25.04	24.92	26.00	20.71	20.78	20.66	21.74
GPRS 4 Tx slots	22.75	22.98	22.84	24.00	19.75	19.98	19.84	21.00
EDGE 1 Tx slot	24.63	24.85	24.66	26.00	15.63	15.85	15.66	17.00
EDGE 2 Tx slots	23.85	23.79	23.77	25.00	17.85	17.79	17.77	19.00
EDGE 3 Tx slots	22.03	22.14	21.98	23.00	17.77	17.88	17.72	18.74
EDGE 4 Tx slots	20.19	20.07	19.99	21.00	17.19	17.07	16.99	18.00

Band	WCDMA I			Time-up Limit (dBm)	WCDMA IV			Time-up Limit (dBm)
	9262	9400	9638		1312	1413	1513	
TX Channel	9662	9800	9938		1537	1638	1738	
Rx Channel	1752.4	1800	1807.2		1712.4	1722.5	1752.2	
Frequency (MHz)	23.40	23.46	23.45	24.50	24.01	23.88	23.99	24.50
3GPP Rel 99	AMR 12.2Kbps	23.43	23.60	23.48	24.50	24.06	23.98	24.05
3GPP Rel 99	AMR 12.2Kbps	23.43	23.60	23.48	24.50	24.06	23.98	24.05
3GPP Rel 6	HSDPA Subtest-1	22.41	22.50	22.50	23.50	22.68	22.64	22.63
3GPP Rel 6	HSDPA Subtest-2	22.45	22.48	22.50	23.50	22.73	22.59	22.61
3GPP Rel 6	HSDPA Subtest-3	21.93	22.00	22.00	23.00	22.18	22.08	22.12
3GPP Rel 6	HSDPA Subtest-4	21.96	21.97	21.97	23.00	22.19	22.09	22.11
3GPP Rel 6	DC-HSDPA Subtest-1	22.23	22.37	22.43	23.50	22.50	22.51	22.56
3GPP Rel 6	DC-HSDPA Subtest-2	22.27	22.35	22.43	23.50	22.55	22.46	22.54
3GPP Rel 6	DC-HSDPA Subtest-3	21.75	21.87	21.93	23.00	22.00	21.95	22.05
3GPP Rel 6	DC-HSDPA Subtest-4	21.72	21.84	21.90	23.00	22.01	21.96	22.04
3GPP Rel 6	HSUPA Subtest-1	22.36	22.48	22.53	23.50	22.71	22.62	22.61
3GPP Rel 6	HSUPA Subtest-2	20.13	20.25	20.35	21.50	20.45	20.35	20.40
3GPP Rel 6	HSUPA Subtest-3	21.16	21.29	21.35	22.50	21.47	21.37	21.42
3GPP Rel 6	HSUPA Subtest-4	20.14	20.24	20.32	21.50	20.46	20.36	20.43
3GPP Rel 6	HSUPA Subtest-5	22.12	22.25	22.31	23.50	22.40	22.30	22.40



Band 2 (1900MHz Band)																
Part 24E																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Low Ch. Freq.	Power High Ch. Freq.	Turn-up (dB)	MPR (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	2247	2247	2244	24	0								
20	QPSK	1	48	2242	2244	2244										
20	QPSK	1	96	2247	2245	2247	23	1								
20	QPSK	50	0	2171	2170	2177										
20	QPSK	50	24	2141	2171	2170	23	1								
20	QPSK	50	50	2165	2167	2164										
20	QPSK	100	0	2170	2171	2170										
20	16QAM	1	0	2168	2168	2167	23	1								
20	16QAM	1	48	2166	2161	2169										
20	16QAM	1	96	2164	2162	2168	22	2								
20	16QAM	50	0	2087	2089	2077										
20	16QAM	50	24	2072	2081	2075	22	2								
20	16QAM	50	50	2053	2062	2073										
20	16QAM	100	0	2072	2069	2070	22	2								
20	16QAM	1	0	2080	2080	2078										
20	16QAM	1	48	2079	2081	2075	21	3								
20	16QAM	1	96	2087	2085	2071										
20	16QAM	50	0	1985	1945	1985	21	3								
20	16QAM	50	24	1958	1978	1958										
20	16QAM	50	50	1933	1934	1971	21	3								
20	16QAM	100	0	1968	1938	1965										
Channel																
Frequency (MHz)																
15	QPSK	1	0	2246	2241	2248	24	0								
15	QPSK	1	37	2250	2243	2243										
15	QPSK	1	74	2247	2249	2244	23	1								
15	QPSK	36	0	2143	2141	2143										
15	QPSK	36	20	2168	2162	2172	23	1								
15	QPSK	36	36	2159	2154	2164										
15	QPSK	75	0	2162	2159	2163	23	1								
15	16QAM	1	48	2164	2169	2164										
15	16QAM	1	37	2165	2179	2189	22	2								
15	16QAM	1	74	2178	2179	2185										
15	16QAM	36	0	2047	2048	2045	22	2								
15	16QAM	36	20	2064	2059	2070										
15	16QAM	36	36	2057	2052	2065	21	3								
15	16QAM	75	0	2084	2086	2083										
15	16QAM	1	37	2167	2164	2176	22	2								
15	16QAM	1	74	2162	2169	2168										
15	16QAM	36	0	2047	2048	2045	21	3								
15	16QAM	36	20	2064	2059	2070										
15	16QAM	36	36	2057	2052	2065	21	3								
15	16QAM	75	0	2087	2086	2084										
Channel																
Frequency (MHz)																
10	QPSK	1	0	2250	2251	2249	24	0								
10	QPSK	1	25	2252	2248	2247										
10	QPSK	1	50	2247	2245	2247	23	1								
10	QPSK	25	0	2163	2160	2162										
10	QPSK	25	12	2168	2163	2167	23	1								
10	QPSK	25	25	2167	2163	2172										
10	QPSK	50	0	2146	2162	2164	23	1								
10	16QAM	1	0	2166	2167	2166										
10	16QAM	1	25	2191	2183	2200	23	1								
10	16QAM	1	49	2196	2198	2198										
10	16QAM	25	0	2064	2057	2064	22	2								
10	16QAM	25	12	2068	2063	2073										
10	16QAM	25	25	2067	2063	2073	22	2								
10	16QAM	50	0	2086	2081	2087										
10	16QAM	1	0	2185	2182	2200	22	2								
10	16QAM	1	25	2188	2185	2194										
10	16QAM	25	0	2067	2068	2065	21	3								
10	16QAM	25	0	2063	2054	2066										
10	16QAM	25	12	2072	2062	2072	21	3								
10	16QAM	25	25	2067	2062	2073										
10	16QAM	50	0	2087	2081	2087	21	3								
10	16QAM	50	25	2087	2081	2087										
Channel																
Frequency (MHz)																
5	QPSK	1	0	2254	2254	2249	24	0								
5	QPSK	1	12	2250	2255	2244										
5	QPSK	1	24	2261	2243	2263	23	1								
5	QPSK	12	0	2163	2149	2165										
5	QPSK	12	7	2166	2164	2174	23	1								
5	QPSK	12	13	2162	2162	2169										
5	QPSK	25	0	2163	2158	2171	23	1								
5	16QAM	1	0	2191	2180	2195										
5	16QAM	1	12	2195	2196	2197	23	1								
5	16QAM	1	24	2193	2187	2197										
5	16QAM	12	0	2066	2053	2073	22	2								
5	16QAM	12	7	2068	2060	2074										
5	16QAM	12	13	2066	2064	2072	22	2								
5	16QAM	25	0	2066	2058	2073										
5	16QAM	1	0	2180	2172	2190	22	2								
5	16QAM	1	12	2185	2178	2182										
5	16QAM	1	24	2180	2177	2187	21	3								
5	16QAM	12	0	2059	2053	2066										
5	16QAM	12	7	2067	2061	2072	21	3								
5	16QAM	12	13	2068	2069	2070										
5	16QAM	25	0	2066	2059	2073	21	3								
5	16QAM	25	7	2067	2062	2071										
Channel																
Frequency (MHz)																
3	QPSK	1	0	2254	2242	2248	24	0								
3	QPSK	1	8	2261	2246	2246										
3	QPSK	1	14	2257	2253	2249	23	1								
3	QPSK	8	0	2168	2161	2163										
3	QPSK	8	4	2168	2159	2172	23	1								
3	QPSK	8	7	2168	2155	2169										
3	QPSK	15	0	2163	2155	2168	23	1								
3	16QAM	1	0	2195	2175	2195										
3	16QAM	1	8	2197	2186	2198	23	1								
3	16QAM	1	14	2186	2186	2190										
3	16QAM	8	0	2069	2058	2070	22	2								
3	16QAM	8	4	2075	2068	2078										
3	16QAM	7	7	2067	2064	2073	22	2								
3	16QAM	15	0	2162	2154	2168										
3	16QAM	1	0	2175	2168	2179	22	2								
3	16QAM	1	8	2191	2183	2203										
3	16QAM	1	14	2178	2175	2194	22	2								
3	16QAM	1	21	2179	2184	2172										
3	16QAM	8	4	2066	2065	2070	21	3								
3	16QAM	8	7	2065	2061	2070										
3	16QAM	15	0	2162	2152	2165	21	3								
3	16QAM	15	8	2166	2157	2169										
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	2247	2242	2242	24	0								
1.4	QPSK	1	8	2251	2247	2247										
1.4	QPSK	1	9	2250	2243	2249	24	0								
1.4	QPSK	3	0	2249	2245	2252										
1.4	QPSK	3	1	2256	2250	2246	23	1								
1.4	QPSK	3	2	2254	2247	2248										
1.4	QPSK	6	0	2156	2151	2151	23	1								
1.4	16QAM	1	0	2185	2175	2185										
1.4	16QAM	1	8	2191	2181	2191	23	1								
1.4	16QAM	1	8	2181	2175	2184										
1.4	16QAM	3	0	2183	2158	2165	23	1								
1.4	16QAM	3	1	2165	2158	2169										
1.4	16QAM	3	2	2152	2152	2161	22	2								
1.4	16QAM	6	0	2080	2058	2088										
1.4	16QAM	1	0	2172	2169	2175	22	2								
1.4	16QAM	1	9	2178	2172	2178										
1.4	16QAM	3	0	2179	2164	2172	22	2								
1.4	16QAM	3	0	2186	2159	2169										
1.4	16QAM	3	1	2170	2162	2172	21	3								
1.4	16QAM	6	0	2059	2051	2062										

Band 38(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch (mW)	Power Mide Ch (mW)	Power High Ch (mW)	Turn-up time (dbr)	MPR (dbr)	
Channel									
	Frequency (MHz)			37650	38050	38150			
20	QPSK	1	0	22.93	22.96	22.95			
20	QPSK	1	49	22.79	22.85	22.88	24		0
20	QPSK	1	99	22.78	22.77	22.78			
20	QPSK	1	50	21.96	21.97	21.97			
20	QPSK	50	24	21.97	21.93	22.02			
25	QPSK	50	50	21.89	21.87	21.98	23		1
20	QPSK	100	0	21.96	22.03	22.02			
20	16QAM	1	0	22.94	22.87	22.87			
20	16QAM	1	49	21.94	21.92	21.92	22		1
20	16QAM	1	99	21.84	21.80	21.79			
20	16QAM	50	0	20.98	21.02	21.03			
20	16QAM	50	24	20.99	20.98	21.05	22		2
20	16QAM	100	0	20.98	20.98	21.00			
20	16QAM	100	50	21.02	20.97	21.09			
20	16QAM	1	0	20.83	20.98	20.81			
20	16QAM	1	49	20.82	20.53	20.58	22		2
20	16QAM	1	99	20.42	20.48	20.45			
20	16QAM	50	0	19.98	19.98	20.02			
20	16QAM	50	24	20.05	19.95	20.08	21		3
20	16QAM	100	0	19.99	19.95	20.05			
Channel									
	Frequency (MHz)			3577.5	3595	3612.5	Turn-up time (dbr)	MPR (dbr)	
15	QPSK	1	0	22.88	22.86	22.88			
15	QPSK	1	37	22.80	22.89	22.85	24		0
15	QPSK	1	74	22.75	22.73	22.76			
15	QPSK	36	5	21.81	21.85	21.85			
15	QPSK	36	20	21.97	21.82	21.81	23		1
15	QPSK	36	39	21.92	21.95	21.95			
15	QPSK	75	0	21.96	21.83	21.92			
15	16QAM	1	37	21.05	21.02	21.01	23		1
15	16QAM	1	37	21.71	21.76	21.82			
15	16QAM	1	74	21.88	21.91	21.87			
15	16QAM	36	0	20.89	20.91	20.97			
15	16QAM	36	20	20.90	20.88	20.90	22		2
15	16QAM	36	39	20.88	20.90	20.95			
15	16QAM	75	0	21.03	20.93	20.95			
15	16QAM	1	0	20.82	20.57	20.56			
15	16QAM	1	37	20.53	20.52	20.58	22		2
15	16QAM	1	74	20.42	20.42	20.45			
15	16QAM	36	0	19.95	19.95	20.04			
15	16QAM	36	20	19.97	19.90	19.94	21		3
15	16QAM	36	39	19.95	19.96	19.97			
15	16QAM	75	0	20.04	19.95	19.99			
Channel									
	Frequency (MHz)			37670	38050	38250	Turn-up time (dbr)	MPR (dbr)	
10	QPSK	1	0	22.85	22.83	22.83			
10	QPSK	1	25	22.89	22.84	22.87	24		0
10	QPSK	1	49	22.73	22.75	22.80			
10	QPSK	25	0	22.02	21.95	21.97			
10	QPSK	25	12	21.96	21.91	21.88	23		1
10	QPSK	25	35	21.92	21.87	21.83			
10	QPSK	50	0	21.95	21.91	21.88			
10	16QAM	1	0	21.87	22.08	22.05			
10	16QAM	1	25	21.97	21.99	21.97	23		1
10	16QAM	1	49	21.93	21.92	21.95			
10	16QAM	25	0	20.95	20.95	20.97			
10	16QAM	25	12	21.02	20.97	20.88	22		2
10	16QAM	25	35	20.92	20.92	20.98			
10	16QAM	50	0	21.00	20.93	20.94			
10	16QAM	1	0	20.83	20.51	20.57			
10	16QAM	1	25	20.77	20.72	20.60	22		2
10	16QAM	1	49	20.47	20.48	20.43			
10	16QAM	25	0	20.08	20.00	20.01			
10	16QAM	25	12	20.07	20.03	19.95	21		3
10	16QAM	25	35	20.02	20.02	19.92			
10	16QAM	50	0	20.01	19.94	19.90			
Channel									
	Frequency (MHz)			37775	38050	38255	Turn-up time (dbr)	MPR (dbr)	
5	QPSK	1	0	22.93	22.86	22.86			
5	QPSK	1	12	22.81	22.82	22.85	24		0
5	QPSK	1	24	22.82	22.86	22.80			
5	QPSK	12	0	22.02	21.91	22.01			
5	QPSK	12	7	21.86	21.91	22.01	23		1
5	QPSK	12	13	21.94	21.91	21.99			
5	QPSK	25	0	21.98	21.93	21.98			
5	16QAM	1	0	22.08	22.01	22.07			
5	16QAM	1	12	22.08	22.02	22.08	23		1
5	16QAM	1	24	22.07	22.07	22.01			
5	16QAM	12	0	20.99	20.91	20.99			
5	16QAM	12	7	20.95	20.90	21.01	22		2
5	16QAM	12	13	20.86	20.93	20.92			
5	16QAM	25	0	21.01	20.96	21.02			
5	16QAM	25	0	20.71	20.70	20.64	21		3
5	16QAM	1	12	20.02	20.02	20.05			
5	16QAM	1	24	20.00	20.01	20.08			
5	16QAM	12	0	20.05	20.00	20.05			
5	16QAM	12	7	20.02	19.95	20.05			
5	16QAM	12	13	19.99	20.01	20.02	21		3
5	16QAM	25	0	20.01	19.96	20.05			

Band 41 (2.6G Band)												
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Cb [Frac]	Power Low Mids Cb [Frac]	Power Mids Cb [Frac]	Power High Mids Cb [Frac]	Power High Cb [Frac]		Time-up (ms)	MPE (dB)	
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.89	23.09	23.16	23.30	23.33				
20	QPSK	1	48	22.88	22.94	22.95	23.24	23.05		24	0	
20	QPSK	1	96	22.84	23.03	23.15	23.29	23.05				
20	QPSK	5	0	21.22	22.12	22.12	22.22	22.22				
20	QPSK	50	24	22.08	22.07	22.08	22.28	22.13				
20	QPSK	50	96	22.08	22.33	22.14	22.30	22.28		23	1	
20	QPSK	100	0	22.08	22.14	22.15	22.23	22.24				
20	16QAM	1	0	22.04	22.02	22.19	22.21	22.21				
20	16QAM	1	48	21.22	22.04	22.05	22.32	22.17		23	1	
20	16QAM	1	96	22.03	22.02	22.20	22.30	22.21				
20	16QAM	50	0	21.05	21.17	21.12	21.28	21.05				
20	16QAM	50	24	21.19	21.22	21.17	21.29	21.51		22	2	
20	16QAM	50	96	21.19	21.12	21.18	21.28	21.68				
20	16QAM	100	0	21.12	21.21	21.19	21.39	21.20				
20	16QAM	1	0	21.20	21.30	21.20	21.40	21.68				
20	16QAM	1	96	21.15	21.04	20.98	21.16	21.05		22	2	
20	16QAM	50	0	20.05	20.27	20.24	20.49	20.20				
20	16QAM	50	24	20.28	20.32	20.39	20.58	20.31				
20	16QAM	50	96	20.23	20.31	20.39	20.50	20.35		21	3	
20	16QAM	100	0	20.39	20.43	20.41	20.47	20.41				
Channel												
Frequency (MHz)												
16	QPSK	1	0	22.96	22.97	22.97	23.04	23.27				
16	QPSK	1	37	22.96	22.92	22.86	23.03	22.89		24	0	
16	QPSK	1	74	22.93	22.93	22.97	23.19	23.19				
16	QPSK	5	0	22.11	22.08	22.06	22.28	22.28				
16	QPSK	36	30	22.07	22.12	22.22	22.18	22.23		23	1	
16	QPSK	36	39	22.00	22.15	22.16	22.17	22.26				
16	QPSK	75	0	22.07	22.22	22.21	22.14	22.37				
16	16QAM	1	0	21.19	21.15	21.12	21.31	21.21				
16	16QAM	1	37	21.95	21.88	22.09	22.13	22.33		23	1	
16	16QAM	1	74	22.04	22.23	22.12	22.36	22.14				
16	16QAM	36	30	20.99	21.03	21.13	21.10	21.23				
16	16QAM	36	39	21.16	21.16	21.08	21.21	21.28		22	2	
16	16QAM	75	0	21.06	21.14	21.10	21.09	21.29				
16	16QAM	75	0	21.11	21.21	21.19	21.13	21.33				
16	16QAM	1	0	21.16	21.32	21.10	21.16	21.25				
16	16QAM	1	37	21.20	21.07	21.11	21.27	21.05		22	2	
16	16QAM	1	74	21.14	21.14	21.21	21.24	21.45				
16	16QAM	36	30	20.16	20.30	20.38	20.34	20.81				
16	16QAM	36	39	20.32	20.41	20.45	20.43	20.59				
16	16QAM	36	75	20.34	20.34	20.34	20.42	20.40		21	3	
16	16QAM	75	0	20.39	20.43	20.41	20.47	20.41				
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.00	22.60	22.60	23.00	23.05				
10	QPSK	1	24	22.41	22.63	22.63	22.93	22.95		24	0	
10	QPSK	1	0	23.10	23.17	23.15	23.03	23.15				
10	QPSK	1	24	22.16	22.63	22.63	22.93	22.95				
10	QPSK	1	48	22.65	22.96	23.17	23.12	23.13				
10	QPSK	25	0	22.04	22.08	22.08	22.40	22.38				
10	QPSK	25	12	22.18	22.18	22.26	22.42	21.98		23	1	
10	QPSK	25	24	22.26	22.18	22.15	22.10	22.45				
10	QPSK	50	0	22.04	22.14	22.14	22.16	22.23				
10	16QAM	1	0	22.23	22.22	22.28	22.23	22.42				
10	16QAM	1	24	22.14	22.21	22.37	22.33	22.39		23	1	
10	16QAM	1	48	22.00	22.16	21.18	22.35	22.26				
10	16QAM	25	0	21.16	21.38	21.16	21.26	21.45		22	2	
10	16QAM	25	12	21.25	21.22	21.35	21.27	21.87				
10	16QAM	50	0	21.44	21.26	21.31	21.21	21.34				
10	16QAM	50	24	21.15	21.51	21.34	21.27	21.27				
10	16QAM	1	24	21.18	21.34	21.53	21.38	21.21		22	2	
10	16QAM	1	48	21.42	21.50	21.21	21.24	21.42				
10	16QAM	25	0	20.28	20.27	20.46	20.27	20.47				
10	16QAM	25	12	20.38	20.34	20.37	20.48	20.27		21	3	
10	16QAM	25	24	20.26	20.35	20.33	20.45	20.46				
10	16QAM	50	0	20.30	20.33	20.57	20.50	20.52				
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.51	23.06	23.10	23.12	23.13				
5	QPSK	1	12	23.06	23.06	23.20	23.20	23.30		24	0	
5	QPSK	1	24	23.01	23.04	23.16	23.17	23.28				
5	QPSK	12	0	22.16	22.15	22.12	22.18	22.44				
5	QPSK	12	7	22.21	22.25	22.30	22.26	22.41		23	1	
5	QPSK	12	13	22.07	22.18	22.12	22.23	22.45				
5	QPSK	25	0	22.14	22.15	22.28	22.20	22.43				
5	16QAM	1	0	22.15	22.20	22.22	22.15	22.47				
5	16QAM	1	12	22.18	22.13	22.25	22.21	22.38		23	1	
5	16QAM	1	24	22.19	22.28	22.28	22.22	22.39				
5	16QAM	12	0	21.13	21.21	21.17	21.13	21.43				
5	16QAM	12	7	21.11	21.15	21.21	21.21	21.41		22	2	
5	16QAM	12	13	21.16	21.16	21.23	21.19	21.36				
5	16QAM	25	0	21.16	21.19	21.32	21.28	21.46				
5	16QAM	25	1	21.18	21.18	21.16	21.14	21.47				
5	16QAM	1	12	21.13	21.18	21.28	21.31	21.43		22	2	
5	16QAM	1	24	21.13	21.20	21.24	21.28	21.45				
5	16QAM	12	0	20.35	20.41	20.39	20.29	20.69				
5	16QAM	12	7	20.34	20.40	20.44	20.36	20.68				
5	16QAM	12	13	20.38	20.37	20.44	20.46	20.59		21	3	
5	16QAM	25	0	20.38	20.45	20.40	20.44	20.59				

Band 41 (2.6G Band) HPUE (Limit 27)													
BN (MHz)	Modulation	RB Size	RB Offset	Power Low Ch (mW)	Power Low Mide Ch (mW)	Power Mide Ch (mW)	Power High Mide Ch (mW)	Power High Ch (mW)	Time-up limit (dBm)	MPR (dB)			
Channel				39750	45185	40620	41065	41490					
Frequency (MHz)				2456	2466	2466	2466	2466					
20	QPSK	1	0	24.65	24.68	24.63	24.58	24.85	26	0			
20	QPSK	1	49	24.64	24.68	24.65	24.60	24.65					
20	QPSK	1	99	24.64	24.72	24.67	24.67	24.65					
20	QPSK	1	149	24.65	24.73	24.68	24.68	24.65					
20	QPSK	50	24	23.98	24.02	23.77	23.75	23.80	25	1			
25	QPSK	50	50	23.95	23.99	23.84	23.72	23.87					
25	QPSK	100	0	23.96	24.00	23.78	23.72	24.01					
25	16QAM	1	0	24.03	24.08	24.12	23.96	24.05					
25	16QAM	1	49	24.06	24.11	23.95	23.89	24.02	25	1			
25	16QAM	1	99	23.98	24.02	24.00	23.89	23.92					
25	16QAM	50	0	22.92	22.96	22.89	22.71	22.94					
25	16QAM	50	24	22.95	23.04	22.85	22.77	22.83					
25	16QAM	100	0	22.92	22.96	22.89	22.73	22.92	24	2			
25	16QAM	100	50	23.01	23.04	22.94	22.75	22.91					
25	64QAM	1	0	22.90	22.93	22.89	22.79	22.91					
25	64QAM	1	49	22.84	22.89	22.82	22.68	22.77					
25	64QAM	1	99	22.83	22.94	22.84	22.78	22.76	24	2			
25	64QAM	50	5	21.83	21.88	21.81	21.63	21.78					
25	64QAM	50	24	21.96	21.96	21.88	21.70	21.75					
25	64QAM	100	0	21.94	21.97	21.86	21.67	21.81					
25	64QAM	100	0	22.02	22.05	21.96	21.82	21.78	23	3			
Channel				45185	45185	45185	45185	45185					
Frequency (MHz)				25015	2548.5	2593	2637.8	2682.5					
15	QPSK	1	0	24.69	24.70	24.70	24.53	24.61			26	0	
15	QPSK	1	37	24.69	24.66	24.66	24.47	24.65					
15	QPSK	1	74	24.71	24.71	24.71	24.63	24.67					
15	QPSK	5	5	23.84	23.82	23.82	23.65	23.74					
15	QPSK	36	20	23.94	23.90	23.90	23.68	23.75	25	1			
15	QPSK	36	36	23.92	23.85	23.85	23.66	23.80					
15	QPSK	75	0	23.96	23.88	23.88	23.72	23.75					
15	QPSK	75	1	24.03	23.95	23.95	23.80	23.82					
15	16QAM	1	37	23.97	23.93	23.93	23.77	23.92	25	1			
15	16QAM	1	74	24.04	24.01	24.01	23.91	23.97					
15	16QAM	36	0	22.83	22.80	22.80	22.63	22.77					
15	16QAM	36	20	22.85	22.85	22.85	22.68	22.72					
15	16QAM	36	36	22.85	22.83	22.83	22.64	22.62	24	2			
15	16QAM	75	0	22.97	22.90	22.90	22.75	22.77					
15	16QAM	1	0	22.94	22.86	22.86	22.73	22.80					
15	16QAM	1	37	22.97	22.89	22.89	22.68	22.81					
15	16QAM	1	74	22.98	22.92	22.92	22.80	22.84	24	2			
15	64QAM	1	0	21.86	21.83	21.83	21.68	21.78					
15	64QAM	36	20	21.96	21.98	21.98	21.70	21.75					
15	64QAM	36	36	21.94	21.87	21.87	21.71	21.81					
15	64QAM	100	0	21.92	21.97	21.88	21.70	21.78	23	3			
Channel				46100	46160	46620	47065	47490					
Frequency (MHz)				26011	2647	2693	2639	2685					
10	QPSK	1	0	24.75	24.73	24.70	24.46	24.61			26	0	
10	QPSK	1	25	24.75	24.76	24.76	24.58	24.61					
10	QPSK	1	49	24.81	24.84	24.80	24.60	24.64					
10	QPSK	25	0	23.95	23.89	23.82	23.68	23.80					
10	QPSK	25	12	23.95	24.04	23.94	23.75	23.80	25	1			
10	QPSK	25	25	23.92	23.96	23.88	23.74	23.85					
10	QPSK	50	0	23.93	23.97	23.92	23.78	23.87					
10	16QAM	1	0	24.12	24.16	24.09	23.88	24.04					
10	16QAM	1	25	24.11	24.18	24.08	23.91	24.01	25	1			
10	16QAM	1	49	24.05	24.10	24.05	23.91	24.00					
10	16QAM	25	0	22.97	22.94	22.79	22.70	22.86					
10	16QAM	25	12	22.99	23.05	22.95	22.79	22.86					
10	16QAM	25	25	22.90	22.97	22.89	22.73	22.86	24	2			
10	16QAM	50	0	22.89	23.03	22.95	22.80	22.84					
10	16QAM	1	0	22.95	23.17	22.99	22.80	22.96					
10	16QAM	1	25	23.08	23.10	22.93	22.78	23.07					
10	64QAM	1	49	23.12	23.12	23.07	22.93	23.04	23	3			
10	64QAM	25	0	21.92	21.87	21.81	21.68	21.80					
10	64QAM	25	12	21.94	21.98	21.83	21.76	21.86					
10	64QAM	25	25	21.91	21.94	21.84	21.70	21.80					
10	64QAM	50	5	21.94	21.99	21.89	21.73	21.77					
Channel				38675	40146	40620	41093	41490	Time-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2498.5	2568.5	2613	2660.3	2697.5					
5	QPSK	1	0	24.79	24.72	24.66	24.43	24.65	26	0			
5	QPSK	1	12	24.80	24.80	24.72	24.50	24.54					
5	QPSK	1	24	24.76	24.79	24.68	24.40	24.65					
5	QPSK	12	0	23.95	23.97	23.86	23.70	23.85					
5	QPSK	12	7	23.99	24.04	23.96	23.79	23.89	25	1			
5	QPSK	12	13	23.94	24.02	23.90	23.72	23.86					
5	QPSK	25	0	23.93	24.03	23.88	23.73	23.81					
5	16QAM	1	0	24.14	24.11	24.06	23.86	24.04					
5	16QAM	1	12	24.08	24.15	24.09	23.94	24.00	25	1			
5	16QAM	1	24	24.14	24.13	24.05	23.90	24.00					
5	16QAM	12	5	22.99	23.04	22.89	22.74	22.91					
5	16QAM	12	7	23.03	23.07	23.00	22.85	22.91					
5	16QAM	12	13	22.97	23.03	22.92	22.82	22.88	24	2			
5	16QAM	25	0	23.01	23.03	22.98	22.83	22.87					
5	16QAM	1	0	23.02	23.12	23.03	22.77	23.08					
5	16QAM	1	12	23.03	23.07	22.97	22.80	22.92					
5	64QAM	1	24	21.93	21.97	21.89	21.69	21.82	23	3			
5	64QAM	12	0	23.03	22.00	21.83	21.70	21.86					
5	64QAM	12	7	21.97	22.03	21.94	21.78	21.83					
5	64QAM	12	13	21.93	21.98	21.89	21.78	21.83					
5	64QAM	25	0	21.94	21.96	21.90	21.73	21.81					

Full Power Mode for ANT1

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	126	169	251		126	169	251	
Frequency (MHz)	834.2	835.4	848.8		834.2	835.4	848.8	
GSM 1 Tx slot	31.22	31.35	31.17	33.00	22.22	22.35	22.17	24.00
GPRS 1 Tx slot	31.21	31.34	31.16	33.00	22.21	22.34	22.16	24.00
GPRS 2 Tx slots	29.99	29.90	29.66	31.00	23.99	23.90	23.66	25.00
GPRS 3 Tx slots	27.56	27.68	27.61	29.00	23.30	23.42	23.35	24.74
GPRS 4 Tx slots	25.25	25.65	25.70	27.00	22.25	22.65	22.70	24.00
EDGE 1 Tx slot	25.30	25.71	25.53	27.00	16.39	16.71	16.53	18.00
EDGE 2 Tx slots	24.47	24.70	24.38	26.00	18.47	18.70	18.38	20.00
EDGE 3 Tx slots	22.43	22.71	22.50	24.00	16.17	16.45	16.24	19.74
EDGE 4 Tx slots	20.45	20.79	20.44	22.00	17.45	17.79	17.44	19.00

Band	WCDMA V			Tune-up Limit (dBm)
	4132	4182	4233	
Tx Channel	4357	4407	4458	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.12	23.20	23.00
3GPP Rel 99	AMR 12.2Kbps	23.15	23.21	23.01
3GPP Rel 6	HSDPA Subtest-1	22.27	22.17	22.03
3GPP Rel 6	HSDPA Subtest-2	22.30	22.17	21.95
3GPP Rel 6	HSDPA Subtest-3	21.75	21.65	21.49
3GPP Rel 6	HSDPA Subtest-4	21.81	21.68	21.50
3GPP Rel 6	DC-HSDPA Subtest-1	22.09	22.04	21.96
3GPP Rel 6	DC-HSDPA Subtest-2	22.12	22.04	21.88
3GPP Rel 6	DC-HSDPA Subtest-3	21.57	21.52	21.42
3GPP Rel 6	DC-HSDPA Subtest-4	21.63	21.55	21.43
3GPP Rel 6	HSUPA Subtest-1	22.28	22.18	21.99
3GPP Rel 6	HSUPA Subtest-2	20.28	20.20	20.02
3GPP Rel 6	HSUPA Subtest-3	21.28	21.15	20.96
3GPP Rel 6	HSUPA Subtest-4	20.27	20.18	19.97
3GPP Rel 6	HSUPA Subtest-5	22.30	22.10	22.00

Band 5 (Cellular Band)												
Part 22H(only on channel required)												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	< Tune-up-2	> Tune-up	Ch Delta > 0.5	
Channel				20450	20525	20600						
Frequency (MHz)				629	636.5	644						
10	QPSK	1	0	22.14	22.30	22.08	23.5	0	1.42	1.20	0.30	
10	QPSK	1	25	22.08	22.08	22.17			1.42	1.33		
10	QPSK	1	49	22.08	22.08	22.08			1.50	1.50		
10	QPSK	25	0	21.28	21.26	21.08	22.5	1	1.42	1.21	0.23	
10	QPSK	25	12	21.20	21.14	21.06			1.44	1.30		
10	QPSK	25	25	21.21	21.16	21.13			1.37	1.29		
10	QPSK	50	0	21.32	21.33	21.07	22.5	1	1.43	1.17	0.26	
10	16QAM	1	0	21.45	21.61	21.34			1.16	0.89		
10	16QAM	1	25	21.43	21.46	21.39			1.11	1.04		
10	16QAM	1	49	21.28	21.45	21.35	21.5	2	1.22	1.05	0.30	
10	16QAM	25	0	20.18	20.09	20.02			1.48	1.32		
10	16QAM	25	12	20.25	20.13	19.95			1.55	1.25		
10	16QAM	25	25	20.17	20.19	20.10	21.5	2	1.40	1.31	0.22	
10	16QAM	50	0	20.23	20.12	20.01			1.49	1.27		
10	64QAM	1	0	21.45	21.44	21.50	21.5	2	0.06	0.00	0.26	
10	64QAM	1	25	21.45	21.41	21.24			0.28	0.05		
10	64QAM	1	49	21.45	21.43	21.40			0.10	0.05		
10	64QAM	25	0	20.23	20.19	20.09	20.5	3	0.41	0.27	0.20	
10	64QAM	25	12	20.29	20.10	20.12			0.45	0.21		
10	64QAM	25	25	20.15	20.14	20.10			0.40	0.35		
10	64QAM	50	0	20.15	20.15	20.10			0.40	0.35	0.05	
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)	< Tune-up-2	> Tune-up	Ch Delta > 0.5	
Frequency (MHz)				628.5	636.5	646.5						
5	QPSK	1	0	22.25	22.10	22.00	23.5	0	1.50	1.25	0.42	
5	QPSK	1	12	22.14	22.13	21.92			1.58	1.36		
5	QPSK	1	24	22.00	22.06	21.83			1.67	1.44		
5	QPSK	12	0	21.28	21.22	21.02	22.5	1	1.48	1.22	0.27	
5	QPSK	12	7	21.21	21.16	21.02			1.48	1.29		
5	QPSK	12	13	21.23	21.07	21.01			1.49	1.27		
5	QPSK	25	0	21.21	21.12	20.93	22.5	1	1.57	1.29	0.28	
5	16QAM	1	0	21.84	21.48	21.25			1.25	0.86		
5	16QAM	1	12	21.95	21.41	21.28			1.22	0.95		
5	16QAM	1	24	21.41	21.37	21.14	21.5	2	1.38	1.09	0.41	
5	16QAM	12	0	20.32	20.14	20.00			1.50	1.18		
5	16QAM	12	7	20.26	20.09	20.03			1.47	1.24		
5	16QAM	12	13	20.18	20.15	19.91	21.5	2	1.59	1.32	0.31	
5	16QAM	25	0	20.28	20.17	19.97			1.53	1.22		
5	64QAM	1	0	21.50	21.28	21.19			0.31	0.00		
5	64QAM	1	12	21.41	21.29	21.13	20.5	3	0.37	0.09	0.41	
5	64QAM	1	24	21.15	21.28	21.09			0.41	0.24		
5	64QAM	12	0	20.27	20.21	20.01			0.49	0.23		
5	64QAM	12	7	20.00	20.15	20.15	20.5	3	0.50	0.35	0.27	
5	64QAM	12	13	20.21	20.10	20.26			0.40	0.24		
5	64QAM	25	0	20.16	20.10	20.16			0.40	0.34		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)	< Tune-up-2	> Tune-up	Ch Delta > 0.5	
Frequency (MHz)				625.5	636.5	647.5						
3	QPSK	1	0	22.14	22.06	21.84	23.5	0	1.58	1.36	0.38	
3	QPSK	1	8	22.16	22.04	21.84			1.56	1.34		
3	QPSK	1	14	22.03	21.99	21.78			1.72	1.47		
3	QPSK	8	0	21.26	21.02	21.00	22.5	1	1.50	1.24	0.36	
3	QPSK	8	4	21.20	21.04	20.95			1.55	1.30		
3	QPSK	8	7	21.11	21.08	20.90			1.60	1.39		
3	QPSK	15	0	21.22	21.07	20.99	22.5	1	1.51	1.28	0.23	
3	16QAM	1	0	21.40	21.33	21.26			1.24	1.10		
3	16QAM	1	8	21.45	21.40	21.23			1.27	1.05		
3	16QAM	1	14	21.44	21.30	21.05	21.5	2	1.45	1.09	0.30	
3	16QAM	8	0	20.31	20.11	20.08			1.42	1.19		
3	16QAM	8	4	20.29	20.11	20.07			1.43	1.21		
3	16QAM	8	7	20.19	20.05	20.01	21.5	2	1.49	1.31	0.25	
3	16QAM	15	0	20.22	20.08	19.97			1.53	1.28		
3	64QAM	1	0	21.37	21.25	21.14			0.36	0.13		
3	64QAM	1	8	21.37	21.23	21.03	21.5	2	0.47	0.13	0.34	
3	64QAM	1	14	21.25	21.26	21.11			0.39	0.24		
3	64QAM	8	0	20.28	20.14	20.15			0.36	0.22		
3	64QAM	8	4	20.26	20.10	20.20	20.5	3	0.40	0.24	0.18	
3	64QAM	8	7	20.13	20.12	20.15			0.38	0.35		
3	64QAM	15	0	20.14	20.01	20.01			0.49	0.36		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)	< Tune-up-2	> Tune-up	Ch Delta > 0.5	
Frequency (MHz)				624.7	636.5	648.3						
1.4	QPSK	1	0	22.07	21.87	21.77	23.5	0	1.73	1.43	0.34	
1.4	QPSK	1	3	22.09	22.01	21.87			1.63	1.41		
1.4	QPSK	1	5	22.00	21.94	21.75			1.75	1.50		
1.4	QPSK	3	0	22.04	21.91	21.83	22.5	1	1.67	1.48	0.33	
1.4	QPSK	3	1	22.07	22.04	21.87			1.63	1.43		
1.4	QPSK	3	3	22.05	21.99	21.74			1.76	1.45		
1.4	QPSK	6	0	21.11	20.93	20.90	22.5	1	1.60	1.39	0.21	
1.4	16QAM	1	0	21.34	21.24	21.16			1.34	1.16		
1.4	16QAM	1	3	21.44	21.29	21.29			1.21	1.06		
1.4	16QAM	1	5	21.28	21.18	20.99	21.5	2	1.51	1.22	0.42	
1.4	16QAM	3	0	21.15	20.92	20.85			1.65	1.35		
1.4	16QAM	3	1	21.20	21.07	20.91			1.59	1.30		
1.4	16QAM	3	3	21.15	21.01	20.78	21.5	2	1.72	1.35	0.25	
1.4	16QAM	6	0	20.20	20.05	19.95			1.55	1.30		
1.4	64QAM	1	0	21.01	21.07	21.15			1.49	1.35		
1.4	64QAM	1	3	21.03	21.03	21.05	21.5	2	1.47	1.45	0.19	
1.4	64QAM	1	5	21.05	21.01	20.96			1.54	1.45		
1.4	64QAM	3	0	21.16	20.99	20.86			1.64	1.34		
1.4	64QAM	3	1	21.15	21.00	20.80	20.5	3	1.70	1.35	0.36	
1.4	64QAM	3	3	21.15	21.01	20.92			1.58	1.35		
1.4	64QAM	6	0	20.08	20.02	20.01			1.49	1.42		

Band 12 (700MHz Low Band)												
Part 27F(only on channel required)												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel				23060	23095	23130						
Frequency (MHz)				704	707.5	711						
10	QPSK	1	0	22.21	22.35	22.20	23.5	0				
10	QPSK	1	25	22.08	22.17	22.18						
10	QPSK	1	49	22.11	22.24	22.26						
10	QPSK	25	0	21.23	21.48	21.43	22.5	1				
10	QPSK	25	12	21.33	21.29	21.47						
10	QPSK	25	25	21.33	21.31	21.41						
10	QPSK	50	0	21.58	21.44	21.43	22.5	1				
10	16QAM	1	0	21.58	21.43	21.59						
10	16QAM	1	25	21.51	21.65	21.53						
10	16QAM	1	49	21.62	21.83	21.43	21.5	2				
10	16QAM	25	0	20.32	20.38	20.38						
10	16QAM	25	12	20.35	20.28	20.41						
10	16QAM	25	25	20.33	20.36	20.40	20.5	3				
10	16QAM	50	0	20.27	20.37	20.33						
10	64QAM	1	0	21.45	21.41	21.43						
10	64QAM	1	25	21.45	21.41	21.43	21.5	2				
10	64QAM	1	49	21.43	21.41	21.43						
10	64QAM	25	0	20.22	20.41	20.36						
10	64QAM	25	12	20.32	20.38	20.48	20.5	3				
10	64QAM	25	25	20.33	20.35	20.28						
10	64QAM	50	0	20.15	20.36	20.29						
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				705.5	707.5	713.5						
5	QPSK	1	0	22.20	22.25	22.20	23.5	0				
5	QPSK	1	12	22.11	22.22	22.27						
5	QPSK	1	24	22.16	22.26	22.27						
5	QPSK	12	0	21.21	21.39	21.40	22.5	1				
5	QPSK	12	7	21.28	21.44	21.41						
5	QPSK	12	13	21.24	21.39	21.45						
5	QPSK	25	0	21.21	21.34	21.32	22.5	1				
5	16QAM	1	0	21.44	21.49	21.57						
5	16QAM	1	12	21.37	21.49	21.68						
5	16QAM	1	24	21.41	21.49	21.68	21.5	2				
5	16QAM	12	0	20.31	20.37	20.51						
5	16QAM	12	7	20.30	20.41	20.51						
5	16QAM	12	13	20.25	20.32	20.41	20.5	3				
5	16QAM	25	0	20.29	20.32	20.37						
5	64QAM	1	0	21.42	21.48	21.49						
5	64QAM	1	12	21.34	21.44	21.49	21.5	2				
5	64QAM	1	24	21.36	21.42	21.45						
5	64QAM	12	0	20.30	20.37	20.40						
5	64QAM	12	7	20.22	20.40	20.42	20.5	3				
5	64QAM	12	13	20.19	20.25	20.39						
5	64QAM	25	0	20.27	20.37	20.36						
Channel				23005	23095	23165	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				700.5	707.5	714.5						
3	QPSK	1	0	22.14	22.20	22.29	23.5	0				
3	QPSK	1	8	22.11	22.23	22.34						
3	QPSK	1	14	22.09	22.16	22.20						
3	QPSK	8	0	21.19	21.34	21.38	22.5	1				
3	QPSK	8	4	21.21	21.31	21.43						
3	QPSK	8	7	21.17	21.27	21.40						
3	QPSK	15	0	21.21	21.27	21.33	22.5	1				
3	16QAM	1	0	21.50	21.43	21.66						
3	16QAM	1	8	21.45	21.50	21.59						
3	16QAM	1	14	21.37	21.54	21.52	21.5	2				
3	16QAM	8	0	20.34	20.37	20.47						
3	16QAM	8	4	20.22	20.41	20.42						
3	16QAM	8	7	20.19	20.35	20.38	20.5	3				
3	16QAM	15	0	20.23	20.33	20.33						
3	64QAM	1	0	21.41	21.42	21.44						
3	64QAM	1	8	21.37	21.36	21.30	21.5	2				
3	64QAM	1	14	21.07	21.20	21.30						
3	64QAM	8	0	20.16	20.34	20.41						
3	64QAM	8	4	20.17	20.36	20.38	20.5	3				
3	64QAM	8	7	20.16	20.18	20.31						
3	64QAM	15	0	20.16	20.25	20.30						
Channel				23005	23095	23175	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				700.7	707.5	715.3						
1.4	QPSK	1	0	22.08	22.10	22.23	23.5	0				
1.4	QPSK	1	3	22.08	22.13	22.23						
1.4	QPSK	1	5	21.96	22.06	22.10						
1.4	QPSK	3	0	22.08	22.10	22.21	22.5	1				
1.4	QPSK	3	1	22.11	22.08	22.23						
1.4	QPSK	3	3	22.003	22.11	22.16						
1.4	QPSK	6	0	21.10	21.15	21.22	22.5	1				
1.4	16QAM	1	0	21.41	21.40	21.48						
1.4	16QAM	1	3	21.44	21.44	21.44						
1.4	16QAM	1	6	21.28	21.42	21.36	22.5	1				
1.4	16QAM	3	0	21.23	21.16	21.29						
1.4	16QAM	3	1	21.15	21.16	21.25						
1.4	16QAM	3	3	21.06	21.18	21.16	21.5	2				
1.4	16QAM	6	0	20.24	20.23	20.29						
1.4	64QAM	1	0	21.23	21.28	21.43						
1.4	64QAM	1	3	21.26	21.06	21.44	21.5	2				
1.4	64QAM	1	5	21.15	21.15	21.28						
1.4	64QAM	3	0	21.22	21.06	21.78						
1.4	64QAM	3	1	21.24	21.01	21.26	20.5	3				
1.4	64QAM	3	3	21.05	21.20	21.26						
1.4	64QAM	6	0	20.08	20.15	20.13						

Band 17 (700MHz Band)									
Part 27H(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	22.21	22.34	22.24	23.5	0	
10	QPSK	1	25	21.97	22.06	22.03			
10	QPSK	1	49	22.00	21.93	21.99			
10	QPSK	25	0	21.11	20.99	21.20	22.5	1	
10	QPSK	25	12	21.16	21.16	21.21			
10	QPSK	25	25	21.08	21.09	21.23			
10	QPSK	50	0	21.14	21.07	21.22	22.5	1	
10	16QAM	1	0	21.43	21.47	21.53			
10	16QAM	1	25	21.36	21.44	21.41			
10	16QAM	1	49	21.08	21.10	21.30	21.5	2	
10	16QAM	25	0	20.12	20.19	20.13			
10	16QAM	25	12	20.11	20.08	20.22			
10	16QAM	25	25	20.06	20.00	20.14	21.5	2	
10	16QAM	50	0	20.10	20.12	20.13			
10	64QAM	1	0	20.28	20.35	20.29			
10	64QAM	1	25	20.16	20.20	20.26	21.5	2	
10	64QAM	1	49	19.99	20.12	20.28			
10	64QAM	25	0	19.17	19.13	19.25			
10	64QAM	25	12	19.13	19.10	19.22	20.5	3	
10	64QAM	25	25	19.06	19.11	19.10			
10	64QAM	50	0	19.05	19.07	19.21			
Channel				23795	23790	23825	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				709.5	710	713.5			
5	QPSK	1	0	22.08	22.33	22.15	23.5	0	
5	QPSK	1	12	21.95	22.15	22.25			
5	QPSK	1	24	21.98	22.22	22.25			
5	QPSK	12	0	21.10	21.46	21.50	22.5	1	
5	QPSK	12	7	21.20	21.27	21.54			
5	QPSK	12	13	21.20	21.34	21.48			
5	QPSK	25	0	21.09	21.42	21.50	22.5	1	
5	16QAM	1	0	21.45	21.41	21.66			
5	16QAM	1	12	21.38	21.63	21.60			
5	16QAM	1	24	21.47	21.56	21.45	21.5	2	
5	16QAM	12	0	20.17	20.31	20.49			
5	16QAM	12	7	20.20	20.21	20.43			
5	16QAM	12	13	20.18	20.29	20.42	21.5	2	
5	16QAM	25	0	20.12	20.30	20.35			
5	64QAM	1	0	21.42	21.45	21.43			
5	64QAM	1	12	21.34	21.35	21.41	21.5	2	
5	64QAM	1	24	21.48	21.38	21.40			
5	64QAM	12	0	20.07	20.34	20.38			
5	64QAM	12	7	20.17	20.31	20.50	20.5	3	
5	64QAM	12	13	20.18	20.28	20.30			
5	64QAM	25	0	20.15	20.29	20.31			

Band 71									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				133222	133322	133372			
Frequency (MHz)				673	683	688			
20	QPSK	1	0	22.26	22.35	22.12	23.5	0	
20	QPSK	1	49	22.07	22.07	21.94			
20	QPSK	1	99	21.86	21.97	21.86			
20	QPSK	50	0	21.25	21.26	21.21	22.5	1	
20	QPSK	50	24	21.22	21.17	21.14			
20	QPSK	50	50	21.24	21.06	21.10			
20	QPSK	100	0	21.25	21.26	21.19	22.5	1	
20	16QAM	1	0	21.54	21.44	21.48			
20	16QAM	1	49	21.45	21.38	21.40			
20	16QAM	1	99	21.21	21.35	21.22	21.5	2	
20	16QAM	50	0	20.30	20.21	20.23			
20	16QAM	50	24	20.29	20.13	20.13			
20	16QAM	50	50	20.13	20.06	20.14	21.5	2	
20	16QAM	100	0	20.21	20.12	20.16			
20	64QAM	1	0	20.45	20.34	20.27			
20	64QAM	1	49	20.44	20.25	20.30	21.5	2	
20	64QAM	1	99	20.56	20.17	20.06			
20	64QAM	50	0	19.30	19.30	19.18			
20	64QAM	50	24	19.29	19.19	19.13	20.5	3	
20	64QAM	50	50	19.10	19.19	19.03			
20	64QAM	100	0	19.29	19.20	19.16			
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	680.5			
15	QPSK	1	0	22.34	22.20	22.17	23.5	0	
15	QPSK	1	37	22.10	22.08	21.96			
15	QPSK	1	74	21.95	21.95	21.92			
15	QPSK	36	0	21.24	21.01	21.13	22.5	1	
15	QPSK	36	20	21.29	21.18	21.14			
15	QPSK	36	39	21.21	21.11	21.16			
15	QPSK	75	0	21.27	21.09	21.15	22.5	1	
15	16QAM	1	0	21.56	21.49	21.45			
15	16QAM	1	37	21.49	21.46	21.34			
15	16QAM	1	74	21.23	21.17	21.28	21.5	2	
15	16QAM	36	0	20.27	20.26	20.11			
15	16QAM	36	20	20.26	20.15	20.20			
15	16QAM	36	39	20.21	20.07	20.12	21.5	2	
15	16QAM	75	0	20.25	20.19	20.11			
15	64QAM	1	0	20.43	20.42	20.27			
15	64QAM	1	37	20.31	20.27	20.24	21.5	2	
15	64QAM	1	74	20.14	20.19	20.26			
15	64QAM	36	0	19.32	19.20	19.23			
15	64QAM	36	20	19.28	19.17	19.20	20.5	3	
15	64QAM	36	39	19.21	19.18	19.08			
15	64QAM	75	0	19.20	19.14	19.19			
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	678	683			
10	QPSK	1	0	22.22	22.12	22.06	23.5	0	
10	QPSK	1	25	22.08	22.00	22.06			
10	QPSK	1	49	22.07	21.97	21.94			
10	QPSK	25	0	21.33	21.20	21.07	22.5	1	
10	QPSK	25	12	21.26	21.24	21.13			
10	QPSK	25	25	21.16	21.27	21.07			
10	QPSK	50	0	21.24	21.29	21.15	22.5	1	
10	16QAM	1	0	21.59	21.49	21.48			
10	16QAM	1	25	21.66	21.40	21.49			
10	16QAM	1	49	21.46	21.38	21.20	21.5	2	
10	16QAM	25	0	20.33	20.25	20.10			
10	16QAM	25	12	20.18	20.31	20.19			
10	16QAM	25	25	20.14	20.29	20.10	21.5	2	
10	16QAM	50	0	20.16	20.30	20.14			
10	64QAM	1	0	20.44	20.25	20.27			
10	64QAM	1	25	20.29	20.41	20.26	21.5	2	
10	64QAM	1	49	20.39	20.38	20.15			
10	64QAM	25	0	19.36	19.22	19.13			
10	64QAM	25	12	19.38	19.31	19.23	20.5	3	
10	64QAM	25	25	19.14	19.19	19.10			
10	64QAM	50	0	19.29	19.29	19.14			
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	675.5	685.5			
5	QPSK	1	0	22.30	22.18	22.11	23.5	0	
5	QPSK	1	12	22.25	22.16	22.20			
5	QPSK	1	24	22.13	22.14	21.97			
5	QPSK	12	0	21.40	21.27	21.09	22.5	1	
5	QPSK	12	7	21.29	21.27	21.09			
5	QPSK	25	0	21.29	21.22	21.05			
5	16QAM	1	0	21.68	21.48	21.39	22.5	1	
5	16QAM	1	12	21.52	21.44	21.43			
5	16QAM	1	24	21.40	21.37	21.26			
5	16QAM	12	0	20.40	20.23	20.14	21.5	2	
5	16QAM	12	7	20.28	20.29	20.16			
5	16QAM	12	13	20.19	20.23	20.01			
5	16QAM	25	0	20.27	20.22	20.06	21.5	2	
5	64QAM	1	0	20.56	20.41	20.30			
5	64QAM	1	12	20.50	20.34	20.26			
5	64QAM	1	24	20.40	20.29	20.19	21.5	2	
5	64QAM	12	0	19.44	19.37	19.18			
5	64QAM	12	7	19.34	19.35	19.17			
5	64QAM	12	13	19.31	19.26	19.10	20.5	3	
5	64QAM	25	0	19.30	19.27	19.11			

Full Power Mode for ANT6

GSM/900	Burst Average Power (dBm)			Time-up Limit (dBm)	Frame Average Power (dBm)			Time-up Limit (dBm)
	512	861	810		512	861	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	26.17	26.32	26.18	29.50	19.17	19.32	19.18	20.50
GSM 1 Tx slot	26.15	26.31	26.17	29.50	19.15	19.31	19.17	20.50
GPRS 1 Tx slot	26.72	26.71	26.23	27.50	20.72	20.71	20.23	21.50
GPRS 2 Tx slots	23.82	24.21	23.91	25.50	19.58	19.95	19.65	21.24
GPRS 3 Tx slots	22.06	22.28	21.90	23.50	19.08	19.28	18.90	20.50
GPRS 4 Tx slots	23.74	24.14	23.81	25.50	14.74	15.14	14.81	16.50
EDGE 1 Tx slot	22.84	23.12	22.95	24.50	16.84	17.12	16.95	18.50
EDGE 2 Tx slots	21.22	21.39	21.13	22.50	16.98	17.13	16.87	18.24
EDGE 3 Tx slots	19.27	19.25	18.96	20.50	16.27	16.25	15.96	17.50
EDGE 4 Tx slots								

Band	WCDMA I			Time-up Limit (dBm)	WCDMA IV			Time-up Limit (dBm)	
	Tx Channel	9262	9490		9538	1312	1413		1513
Rx Channel	9662	9890	9938		1537	1638	1738		
Frequency (MHz)	1752.4	1850	1907.4		1712.4	1722.5	1752.3		
3GPP Rel 99	AMR 12.2Kbps	22.70	22.80	22.71	24.00	23.18	22.89	23.01	24.00
3GPP Rel 99	RM-C 12.2Kbps	22.72	22.84	22.74	24.00	23.25	22.92	23.02	24.00
3GPP Rel 6	HSDDPA Subtest-1	21.99	22.05	22.09	23.00	22.16	22.16	22.18	23.00
3GPP Rel 6	HSDDPA Subtest-2	22.03	22.03	22.09	23.00	22.21	22.11	22.16	23.00
3GPP Rel 6	HSDDPA Subtest-3	21.51	21.55	21.59	22.50	21.66	21.60	21.67	22.50
3GPP Rel 6	HSDDPA Subtest-4	21.48	21.52	21.56	22.50	21.67	21.61	21.66	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	21.81	21.92	22.02	23.00	21.98	22.03	22.11	23.00
3GPP Rel 6	DC-HSDPA Subtest-2	21.85	21.90	22.02	23.00	22.03	21.98	22.09	23.00
3GPP Rel 6	DC-HSDPA Subtest-3	21.33	21.42	21.52	22.50	21.48	21.47	21.60	22.50
3GPP Rel 6	DC-HSDPA Subtest-4	21.30	21.39	21.49	22.50	21.49	21.48	21.59	22.50
3GPP Rel 6	HSUPA Subtest-1	21.94	22.03	22.12	23.00	22.19	22.14	22.16	23.00
3GPP Rel 6	HSUPA Subtest-2	19.71	19.80	19.94	21.00	19.93	19.87	19.95	21.00
3GPP Rel 6	HSUPA Subtest-3	20.74	20.84	20.94	22.00	20.95	20.89	20.97	22.00
3GPP Rel 6	HSUPA Subtest-4	19.72	19.79	19.91	21.00	19.94	19.88	19.98	21.00
3GPP Rel 6	HSUPA Subtest-5	21.70	21.80	21.90	23.00	21.90	21.90	22.00	23.00



Band 2 (1900MHz Band)									
Part 24E									
BW (MHz)	Modulation	RB Size	RB Offset	Channel	Power Low Ch. Freq.	Power Med. Ch. Freq.	Power High Ch. Freq.	Turn-up (dB)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	1710	1860	1900			
20	QPSK	1	0	2177	2172	2177		23.5	0
20	QPSK	1	50	2172	2176	2177			
20	QPSK	50	0	2083	2089	2077			
20	QPSK	50	24	2084	2088	2078			
20	QPSK	50	50	2097	2098	2097		22.5	1
20	QPSK	100	0	2093	2092	2086			
20	16QAM	1	0	2104	2103	2110			
20	16QAM	1	40	2097	2095	2104		22.5	1
20	16QAM	1	50	2103	2105	2108			
20	16QAM	50	0	1984	1982	1989			
20	16QAM	50	40	1984	1985	1990			
20	16QAM	50	50	1989	1991	1994		21.5	2
20	16QAM	100	0	1996	1993	1982			
20	16QAM	50	24	1979	1988	1981			
20	16QAM	1	0	2092	2086	2080		21.5	2
20	16QAM	1	40	2084	2083	2084			
20	16QAM	1	50	2081	2080	2100			
20	16QAM	50	0	1987	1982	1988			
20	16QAM	50	40	1985	1989	1992			
20	16QAM	50	50	1989	1989	1992		20.5	3
20	16QAM	100	0	1980	1984	1987			
Channel									
Frequency (MHz)									
15	QPSK	1	0	2178	2176	2188			
15	QPSK	1	37	2178	2177	2181		23.5	0
15	QPSK	1	74	2179	2178	2181			
15	QPSK	36	0	2082	2078	2084			
15	QPSK	36	20	2094	2093	2088		22.5	1
15	QPSK	75	0	2086	2082	2089			
15	16QAM	1	40	2104	2108	2104			
15	16QAM	1	37	2108	2113	2114		22.5	1
15	16QAM	1	74	2105	2111	2102			
15	16QAM	36	0	1984	1978	1978			
15	16QAM	36	20	1997	1987	1986		21.5	2
15	16QAM	36	39	1987	1986	1987			
15	16QAM	75	0	1984	1986	1989			
15	16QAM	75	40	2004	2004	2006			
15	16QAM	1	37	2102	2095	2102		21.5	2
15	16QAM	1	74	2079	2105	2080			
15	16QAM	36	0	1985	1985	1986			
15	16QAM	36	20	1975	1979	1981		20.5	3
15	16QAM	36	39	1972	1986	1975			
15	16QAM	75	0	1980	1986	1985			
Channel									
Frequency (MHz)									
10	QPSK	1	0	2168	2171	2168			
10	QPSK	1	25	2167	2168	2179		23.5	0
10	QPSK	1	21	2168	2168	2174			
10	QPSK	25	0	2087	2080	2086			
10	QPSK	25	12	2088	2085	2084		22.5	1
10	QPSK	25	20	2084	2087	2100			
10	QPSK	25	40	2083	2084	2087			
10	16QAM	1	0	2112	2122	2105			
10	16QAM	1	25	2092	2101	2107		22.5	1
10	16QAM	1	40	2115	2126	2117			
10	16QAM	25	0	1983	1972	1971			
10	16QAM	25	12	1982	1986	1989		21.5	2
10	16QAM	25	20	1987	1986	1980			
10	16QAM	1	0	2112	2086	2087			
10	16QAM	1	25	2105	2095	2092		21.5	2
10	16QAM	1	40	2108	2098	2092			
10	16QAM	25	0	1984	1982	1979			
10	16QAM	25	12	1985	1978	1980		20.5	3
10	16QAM	25	20	1986	1986	1985			
10	16QAM	25	40	1980	1988	1989			
Channel									
Frequency (MHz)									
5	QPSK	1	0	2176	2166	2177			
5	QPSK	1	15	2162	2161	2167		23.5	0
5	QPSK	1	24	2179	2177	2187			
5	QPSK	12	0	2081	2081	2085			
5	QPSK	12	7	2082	2078	2082		22.5	1
5	QPSK	12	13	2085	2081	2084			
5	QPSK	25	0	2088	2080	2085			
5	16QAM	1	0	2154	2150	2165			
5	16QAM	1	12	2153	2154	2168		22.5	1
5	16QAM	1	24	2155	2159	2171			
5	16QAM	12	0	1980	1982	1984			
5	16QAM	12	7	1980	1980	1987		21.5	2
5	16QAM	12	13	1986	1982	1986			
5	16QAM	25	0	1986	1986	1986			
5	16QAM	1	0	2162	2082	2085		21.5	2
5	16QAM	1	12	2161	2108	2105			
5	16QAM	1	24	2096	2097	2105			
5	16QAM	12	0	1982	1983	1982			
5	16QAM	12	7	1980	1972	1988			
5	16QAM	12	13	1988	1986	1989		20.5	3
5	16QAM	25	0	1988	1986	1981			
Channel									
Frequency (MHz)									
3	QPSK	1	0	2180	2181	2170			
3	QPSK	1	8	2184	2176	2180		23.5	0
3	QPSK	1	14	2181	2172	2180			
3	QPSK	8	0	2080	2078	2078			
3	QPSK	8	4	2087	2081	2087		22.5	1
3	QPSK	8	7	2088	2088	2087			
3	QPSK	15	0	2092	2080	2088			
3	16QAM	1	0	2108	2105	2108			
3	16QAM	1	8	2105	2089	2111		22.5	1
3	16QAM	1	14	2107	2104	2108			
3	16QAM	8	0	1980	1977	1987			
3	16QAM	8	4	1987	1985	1990		21.5	2
3	16QAM	8	7	1980	1987	1991			
3	16QAM	15	0	1986	1981	1989			
3	16QAM	1	0	2104	2097	2096		21.5	2
3	16QAM	1	8	2104	2090	2092			
3	16QAM	1	14	2096	2087	2088			
3	16QAM	8	0	1984	1975	1980			
3	16QAM	8	4	1980	1974	1991		20.5	3
3	16QAM	8	7	1980	1981	1981			
3	16QAM	15	0	1980	1981	1984			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	2170	2169	2172			
1.4	QPSK	1	3	2174	2174	2178		23.5	0
1.4	QPSK	1	6	2168	2169	2170			
1.4	QPSK	3	0	2171	2170	2176			
1.4	QPSK	3	1	2176	2172	2176			
1.4	QPSK	3	3	2173	2169	2178		22.5	1
1.4	QPSK	3	6	2081	2081	2083			
1.4	16QAM	1	0	2102	2108	2105			
1.4	16QAM	1	3	2106	2111	2107		22.5	1
1.4	16QAM	1	6	2097	2108	2096			
1.4	16QAM	3	0	2081	2077	2080			
1.4	16QAM	3	1	2087	2083	2080		21.5	2
1.4	16QAM	3	3	2088	2080	2081			
1.4	16QAM	6	0	1986	1985	1993			
1.4	16QAM	1	0	2100	2101	2091			
1.4	16QAM	1	3	2083	2086	2105		21.5	2
1.4	16QAM	1	6	2078	2084	2089			
1.4	16QAM	3	0	2078	2085	2085			
1.4	16QAM	3	1	2087	2087	2083		20.5	3
1.4	16QAM	6	0	1978	1978	1985		20.5	3

Band 4 (AWS Band)									
Part 27L (only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Channel	Power Low Ch. Freq.	Power Med. Ch. Freq.	Power High Ch. Freq.	Turn-up (dB)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	2174	2185	2185	2188		
20	QPSK	1	40	2160	2163	2167		23.5	0
20	QPSK	1	50	2156	2160	2181			
20	QPSK	50	0	2078	2087	2081			
20	QPSK	50	24	2086	2085	2078			
20	QPSK	50	50	2087	2085	2070		22.5	1
20	QPSK	100	0	2075	2077	2076			
20	16QAM	1	0	2095	2114	2084			
20	16QAM	1	40	2087	2070	2085		22.5	1
20	16QAM	1	50	2085	2084	2086			
20	16QAM	50	0	1979	1978	1986			
20	16QAM	50	40	1987	1987	1987			
20	16QAM	50	50	1974	1987	1977		21.5	2
20	16QAM	100	0	1973	1978	1981			
20	16QAM	1	40	2087	2070	2085		21.5	2
20	16QAM	1	50	2085	2084	2086			
20	16QAM	50	0	1979	1978	1986			
20	16QAM	50	40	1987	1987	1987			
20	16QAM	50	50	1974	1986	1977		20.5	3
Channel									
Frequency (MHz)									
15	QPSK	1	0	2167	2174	2172			
15	QPSK	1	40	2153	2160	2161		23.5	0
15	QPSK	1	50	2149	2154	2173			
15	QPSK	50	0	2078	2087	2081			
15	QPSK	50	24	2086	2085	2078			
15	QPSK	50	50	2087	2085	2070		22.5	1
15	QPSK	100	0	2075	2077	2076			
15	16QAM	1	0	2095	2109	2108			
15	16QAM	1	40	2087	2086	2085		22.5	1
15	16QAM	1	50	2085	2086	2084			
15	16QAM	50	0	1979	1978	1986			
15	16QAM	50	40	1987	1987	1987			
15	16QAM	50	50	1974	1986	1977		21.5	2
15	16QAM	100	0	1973	1978	1981			
15	16QAM	1	40	2087	2086	2085		20.5	3
15	16QAM	1	50	2085	2086	2084			
15	16QAM	50	0	1979	1978	1986			
15	16QAM	50	40	1987	1986	1987			
15	16QAM	50	50	1974	1985	1976		20.5	3
Channel									
Frequency (MHz)									
10	QPSK	1	0	2173	2174	2174			
10	QPSK	1	40	2167	2177	2176		23.5	0
10	QPSK	1	40	2174	2173	2184			
10	QPSK	25	0	2076	2077	2084		22.5	1
10	QPSK	25	24	2086	2087	2076			
10	QPSK	25	24	2081	2089	2051			
10	QPSK	50	0	2083	2081	2052			
10	16QAM	1	0	2099	2106	2102		22.5	1
10	16QAM	1	40	2091	2105	2102			
10	16QAM	1	40	2105	2105	2102			
10	16QAM	25	0	1984	1978	1991		21.5	2
10	16QAM	25	0	1983	1988	1983			
10	16QAM	25	0	1983	1988	1983			
10	16QAM	50	0	1981	1982	1993			
10	16QAM	50	0	1987	1988	2002		21.5	2
10	16QAM	50	0	1987	1988	2002			
10	16QAM	50	0	1987	1988	2002			
10	16QAM	1	40	2091	2088	2102			
10	16QAM	25	0	1977	1978	1984			
10	16QAM	25	0	1983	1978	1993		20.5	3
10	16QAM	25	0	1983	1978	1993			
10	16QAM	50	0	1983	1982	1988			
Channel									
Frequency (MHz)									
5	QPSK	1	0	2166	2164	2164			
5	QPSK	1	12	2164	2161	2177		23.5	0
5	QPSK	1	24	2163	2165	2176			
5	QPSK	12	0	2077	2077	2084		22.5	1
5	QPSK	12	7	2085	2088	2083			
5	QPSK	12	13	2081	2080	2058			
5	QPSK	25	0	2083	2086	2085			
5	QPSK	25	0	2083	2086	2085			
5	16QAM	1	12	2092	2094	2101		22.5	1
5	16QAM	1	24	2108	2108	2113			
5	16QAM	12	0	1980	1980	1988		21.5	2
5	16QAM	12	0	1980	1980	1988			
5	16QAM	12	13	1985	1988	1978			
5	16QAM	25	0	1984	1989	1978			
5	16QAM	25	0	1983	1988	1988			
5	16QAM	1	12	2102	2088	2093		21.5	2
5	16QAM	1	24	2085	2101	2101			
5	16QAM	12	0	1981	1978	1977		20.5	3
5	16QAM	12	0	1981	1988	1988			
5	16QAM	12	13	1987	1979	1973			
5	16QAM	25	0	1987	1981	1987			
Channel									
Frequency (MHz)									
3	QPSK	1	0	2164	2157	2160			
3	QPSK	1	8	2168	2168	2167		23.5	0
3	QPSK	1	14	2164	2171	2173			
3	QPSK	8	0	2078	2081	2078		22.5	1
3	QPSK	8	4	2075	2070	2073			
3	QPSK	8	7	2076	2074	2075			
3	QPSK	16	0	2085	2085	2087			
3	16QAM	1	0	2101	2093	2095		22.5	1
3	16QAM	1	8	2091	2095	2097			
3	16QAM	1	14	2102	2094	2091			
3	16QAM	8	0	1982	1982	1988		21.5	2
3	16QAM	8	4	1976	1969	1978			
3	16QAM	7	7	1980	1972	1978			
3	16QAM	16	0	1982	1986	1987			
3	16QAM	1	0	1998	1982	1989		20.5	3
3	16QAM	1	8	1984	1982	1982			
3	16QAM	1	14	1980	1979	1978			
3	16QAM	8	0	1983	1978	1981			
3	16QAM	8	4	1982	1981	1976			
3	16QAM	8	7	1978	1884	1878			
3	16QAM	16	0	1976	1970	1973		20.5	3
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	2165	2151	2154.3			
1.4	QPSK	1	0	2169	2162	2168			
1.4	QPSK	1	8	2144	2145	2148		23.5	0
1.4	QPSK	3	0	2166	2152	2168			
1.4	QPSK	3	1	2171	2164	2167			
1.4	QPSK	3	0	2165	2151	2173		22.5	1
1.4	QPSK	3	0	2075	2069	2073			
1.4	16QAM	1	0	2097	2090	2097		22.5	1
1.4	16QAM	1	8	2101	2093	2099			
1.4	16QAM	3	0	2078	2069	2072			
1.4	16QAM	3	1	2082	2065	2072			
1.4	16QAM	3	0	2082	2069	2072			
1.4	16QAM	3	0	1983	1967	1983		21.5	2
1.4	16QAM	3	0	2065	2063	2063			
1.4	16QAM	1	8	2088	2068	2087		21.5	2
1.4	16QAM	1	8	2088	2068	2087			
1.4	16QAM	3	0	2073	2067	2077			
1.4	16QAM	3	1	2082	2067	2083			
1.4	16QAM	3	0	2080	2067	2085		20.5	3



Band 38(only on channel required)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low-Mid Ch / Freq	Power High-Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)
Channel				37850	38000	38150			
Frequency (MHz)									
20	QPSK	1	0	22.02	22.12	22.10		23.5	0
20	QPSK	1	49	22.02	22.05	22.00			
20	QPSK	1	99	22.00	21.95	21.88			
20	QPSK	50	0	21.14	21.16	21.14			
20	QPSK	50	24	21.17	21.13	21.15		22.5	1
20	QPSK	50	50	21.12	21.14	21.11			
20	QPSK	100	0	21.17	21.10	21.10			
20	16QAM	1	0	21.21	21.27	21.21			
20	16QAM	1	49	21.10	21.15	21.12		22.5	1
20	16QAM	1	99	21.07	21.04	21.02			
20	16QAM	50	0	20.17	20.20	20.20			
20	16QAM	50	24	20.24	20.17	20.21			
20	16QAM	50	50	20.17	20.20	20.14		21.5	2
20	16QAM	100	0	20.20	20.15	20.18			
20	16QAM	1	0	19.75	19.81	19.81			
20	16QAM	1	49	19.71	19.74	19.78		21.5	2
20	16QAM	1	99	19.67	19.69	19.62			
20	16QAM	50	0	19.17	19.23	19.15			
20	16QAM	50	24	19.24	19.16	19.20			
20	16QAM	50	50	19.18	19.16	19.11		20.5	3
20	16QAM	100	0	19.19	19.16	19.20			
Channel				37825	38000	38150			
Frequency (MHz)									
15	QPSK	1	0	22.04	22.10	22.05		23.5	0
15	QPSK	1	37	21.97	22.03	21.99			
15	QPSK	1	74	21.93	21.96	21.91			
15	QPSK	36	0	21.11	21.16	21.10			
15	QPSK	36	20	21.12	21.09	21.04		22.5	1
15	QPSK	36	59	21.11	21.12	21.08			
15	QPSK	75	0	21.13	21.11	21.09			
15	16QAM	1	0	21.18	21.23	21.17			
15	16QAM	1	37	21.00	21.05	21.03		22.5	1
15	16QAM	1	74	21.11	21.10	21.01			
15	16QAM	36	0	20.16	20.15	20.09			
15	16QAM	36	20	20.12	20.08	20.01			
15	16QAM	36	39	20.07	20.10	20.04		21.5	2
15	16QAM	75	0	20.19	20.15	20.11			
15	16QAM	1	0	19.69	19.77	19.73			
15	16QAM	1	37	19.71	19.77	19.75			
15	16QAM	1	74	19.63	19.73	19.65		20.5	3
15	16QAM	36	0	19.13	19.18	19.16			
15	16QAM	36	20	19.16	19.11	19.08			
15	16QAM	36	39	19.11	19.15	19.09			
15	16QAM	75	0	19.21	19.13	19.09		20.5	3
Channel				37800	38000	38200			
Frequency (MHz)									
10	QPSK	1	0	22.09	22.11	22.09		23.5	0
10	QPSK	1	25	21.99	22.01	22.00			
10	QPSK	1	49	21.93	21.92	21.89			
10	QPSK	25	0	21.15	21.14	21.09			
10	QPSK	25	12	21.14	21.12	21.02		22.5	1
10	QPSK	25	25	21.13	21.18	21.13			
10	QPSK	50	0	21.14	21.10	21.03			
10	16QAM	1	0	21.23	21.26	21.21			
10	16QAM	1	25	21.13	21.21	21.08		22.5	1
10	16QAM	1	49	21.13	21.10	21.02			
10	16QAM	25	0	20.11	20.10	20.08			
10	16QAM	25	12	20.11	20.09	20.04			
10	16QAM	25	25	20.07	20.14	20.04		21.5	2
10	16QAM	50	0	20.19	20.20	20.14			
10	16QAM	1	0	19.83	19.86	19.88			
10	16QAM	1	25	19.74	19.79	19.86			
10	16QAM	1	49	19.73	19.76	19.69		21.5	2
10	16QAM	25	0	19.24	19.21	19.19			
10	16QAM	25	12	19.23	19.22	19.04			
10	16QAM	25	25	19.20	19.28	19.15			
10	16QAM	50	0	19.19	19.16	19.03		20.5	3
Channel				37775	38000	38205			
Frequency (MHz)									
5	QPSK	1	0	22.06	22.05	22.06		23.5	0
5	QPSK	1	12	21.96	22.06	21.94			
5	QPSK	1	24	22.01	21.99	21.90			
5	QPSK	12	0	21.14	21.12	21.12			
5	QPSK	12	7	21.16	21.16	21.12		22.5	1
5	QPSK	12	13	21.12	21.17	21.11			
5	QPSK	25	0	21.15	21.10	21.12			
5	16QAM	1	0	21.17	21.26	21.21			
5	16QAM	1	12	21.23	21.26	21.18		22.5	1
5	16QAM	1	24	21.22	21.18	21.18			
5	16QAM	12	0	20.12	20.11	20.08			
5	16QAM	12	7	20.13	20.12	20.14			
5	16QAM	12	13	20.09	20.12	20.02		21.5	2
5	16QAM	25	0	20.12	20.14	20.11			
5	16QAM	25	1	19.80	19.79	19.78			
5	16QAM	1	12	19.78	19.83	19.78			
5	16QAM	1	24	19.78	19.82	19.74		21.5	2
5	16QAM	12	0	19.16	19.21	19.17			
5	16QAM	12	7	19.23	19.16	19.23			
5	16QAM	12	13	19.18	19.22	19.16			
5	16QAM	25	0	19.24	19.17	19.16		20.5	3
Channel				37750	38000	38150			
Frequency (MHz)									
20	QPSK	1	0	22.02	22.16	22.08		23.5	0
20	QPSK	1	49	22.25	22.27	22.49	22.38		
20	QPSK	1	99	22.25	22.25	22.45	22.45		
20	QPSK	50	0	21.06	21.16	21.26	21.25		
20	QPSK	50	24	20.90	21.07	21.23	21.21	22.5	1
20	QPSK	50	50	20.91	21.07	21.23	21.20		
20	QPSK	100	0	20.96	21.07	21.20	21.22		
20	16QAM	1	0	21.00	21.03	21.40	21.31		
20	16QAM	1	49	20.86	20.93	21.13	21.20	22.5	1
20	16QAM	1	99	20.86	20.90	21.09	21.24		
20	16QAM	50	0	19.86	20.01	20.26	20.22		
20	16QAM	50	24	20.05	20.11	20.25	20.27		
20	16QAM	50	50	19.87	20.07	20.20	20.25	21.5	2
20	16QAM	100	0	20.02	20.08	20.21	20.27		
20	16QAM	1	0	19.68	19.83	19.89	19.83		
20	16QAM	1	49	19.65	19.51	19.75	19.84		
20	16QAM	1	99	19.69	19.53	19.73	19.75	21.5	2
20	16QAM	50	0	19.68	19.01	19.23	19.20		
20	16QAM	50	24	19.04	19.08	19.28	19.28		
20	16QAM	50	50	19.88	19.05	19.19	19.25		
20	16QAM	100	0	19.41	19.41	19.41	19.41	20.5	3
Channel				37725	40163	40620	41065		
Frequency (MHz)									
15	QPSK	1	0	21.91	21.87	22.10	22.17	23.5	0
15	QPSK	1	37	21.83	21.86	22.26	22.24		
15	QPSK	1	74	21.74	21.96	22.04	22.03		
15	QPSK	36	0	20.90	20.95	21.15	21.16		
15	QPSK	36	20	20.97	20.99	21.17	21.24	22.5	1
15	QPSK	36	59	20.93	21.03	21.14	21.23		
15	QPSK	75	0	21.01	20.95	21.21	21.23		
15	16QAM	1	0	21.01	21.05	21.28	21.15		
15	16QAM	1	37	20.82	20.86	20.96	21.04	22.5	1
15	16QAM	1	74	20.98	21.11	21.18	21.15		
15	16QAM	36	0	19.87	19.86	20.15	20.14		
15	16QAM	36	20	20.00	20.00	20.18	20.23		
15	16QAM	36	39	19.96	19.98	20.04	20.18	21.5	2
15	16QAM	75	0	20.05	20.07	20.23	20.27		
15	16QAM	1	0	19.62	19.64	19.83	19.85		
15	16QAM	1	37	19.63	19.58	19.69	19.80		
15	16QAM	1	74	19.67	19.68	19.77	19.67	21.5	2
15	16QAM	36	0	19.86	19.86	19.23			

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Band 2 (1900MHz Band) - for Body									
Part 24E									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100			
Frequency (MHz)				1860	1890	1900			
20	QPSK	1	0	20.87	21.29	20.91	22	0	
20	QPSK	1	49	20.81	20.79	20.87			
20	QPSK	1	99	20.87	20.80	20.83			
20	QPSK	50	0	20.79	20.99	20.83	22	0	
20	QPSK	50	24	20.96	20.98	20.75			
20	QPSK	50	50	20.86	20.87	20.96			
20	QPSK	100	0	21.02	21.05	20.90	22	0	
20	16QAM	1	0	21.23	21.07	21.17			
20	16QAM	1	49	21.24	21.04	21.03			
20	16QAM	1	99	21.28	20.86	20.96	22	0	
20	16QAM	50	0	20.93	20.98	20.71			
20	16QAM	50	24	21.06	20.87	20.86			
20	16QAM	50	50	20.92	20.82	21.03	22	0	
20	16QAM	100	0	20.86	20.93	20.87			
20	64QAM	1	49	20.66	20.56	20.55			
20	64QAM	1	99	20.78	20.67	20.83	22	0	
20	64QAM	50	0	20.86	20.93	20.90			
20	64QAM	50	24	20.83	20.95	20.81			
20	64QAM	50	50	20.94	20.96	20.93	21	1	
20	64QAM	100	0	20.97	20.99	20.84			
Channel				18675	18900	19125			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	0	20.86	20.94	20.83	22	0	
15	QPSK	1	37	20.76	20.86	20.87			
15	QPSK	1	74	20.87	20.84	20.91			
15	QPSK	36	0	20.89	20.87	20.92	22	0	
15	QPSK	36	20	20.97	20.98	20.97			
15	QPSK	36	39	20.90	20.97	21.01			
15	QPSK	75	0	20.91	20.93	20.94	22	0	
15	16QAM	1	0	21.08	21.11	21.23			
15	16QAM	1	37	21.22	20.76	21.05			
15	16QAM	1	74	21.13	21.02	21.23	22	0	
15	16QAM	36	0	20.91	20.95	20.92			
15	16QAM	36	20	20.88	20.93	20.81			
15	16QAM	36	39	20.92	20.86	20.95	22	0	
15	16QAM	75	0	21.03	20.94	21.08			
15	64QAM	1	0	20.90	20.98	21.07			
15	64QAM	1	37	20.83	21.11	21.00	22	0	
15	64QAM	1	74	21.00	21.21	20.85			
15	64QAM	36	0	20.91	20.96	20.75			
15	64QAM	36	20	20.89	20.88	20.93	21	1	
15	64QAM	36	39	20.91	20.93	20.98			
15	64QAM	75	0	21.00	21.00	20.97			
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1890	1905			
10	QPSK	1	0	20.97	20.83	20.83	22	0	
10	QPSK	1	25	20.98	20.77	21.11			
10	QPSK	1	49	20.80	20.72	20.68			
10	QPSK	25	0	20.95	20.82	20.82	22	0	
10	QPSK	25	12	20.97	20.91	20.90			
10	QPSK	25	25	20.92	20.92	21.00			
10	QPSK	50	0	20.97	20.90	20.89	22	0	
10	16QAM	1	0	20.84	21.17	21.19			
10	16QAM	1	25	20.89	20.89	21.23			
10	16QAM	1	49	20.81	21.24	20.94	22	0	
10	16QAM	25	0	20.95	20.94	20.73			
10	16QAM	25	12	20.96	21.05	21.00			
10	16QAM	25	25	20.83	20.94	20.97	22	0	
10	16QAM	50	0	20.97	20.90	20.87			
10	64QAM	1	0	21.15	20.99	20.99			
10	64QAM	1	25	21.22	20.89	21.13	22	0	
10	64QAM	1	49	20.98	20.97	21.11			
10	64QAM	25	0	20.88	20.96	20.78			
10	64QAM	25	12	20.98	20.90	21.00	21	1	
10	64QAM	25	25	20.95	21.00	20.88			
10	64QAM	50	0	20.92	20.94	20.86			
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	0	20.67	20.51	20.82	22	0	
5	QPSK	1	12	20.61	20.67	20.59			
5	QPSK	1	24	20.69	20.54	20.68			
5	QPSK	12	0	20.77	20.62	20.74	22	0	
5	QPSK	12	7	20.83	20.75	20.76			
5	QPSK	12	13	20.80	20.75	20.73			
5	QPSK	25	0	20.74	20.71	20.74	22	0	
5	16QAM	1	0	20.83	20.79	21.21			
5	16QAM	1	12	20.87	21.16	21.28			
5	16QAM	1	24	20.85	20.92	21.18	22	0	
5	16QAM	12	0	20.69	20.71	20.77			
5	16QAM	12	7	20.79	20.85	20.83			
5	16QAM	12	13	20.74	20.77	20.77	22	0	
5	16QAM	25	0	20.86	20.91	20.75			
5	64QAM	1	0	20.89	20.98	21.17			
5	64QAM	1	12	21.15	20.85	20.96	22	0	
5	64QAM	1	24	20.95	20.86	20.93			
5	64QAM	12	0	20.62	20.85	20.78			
5	64QAM	12	7	20.73	20.80	20.80	21	1	
5	64QAM	12	13	20.74	20.79	20.75			
5	64QAM	25	0	20.76	20.82	20.76			
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1851.5	1880	1908.5			
3	QPSK	1	0	20.59	20.53	20.54	22	0	
3	QPSK	1	8	20.57	20.71	20.77			
3	QPSK	1	14	20.51	20.69	20.67			
3	QPSK	8	0	20.78	20.67	20.69	22	0	
3	QPSK	8	4	20.82	20.71	20.78			
3	QPSK	8	7	20.69	20.74	20.72			
3	QPSK	15	0	20.78	20.75	20.69	22	0	
3	16QAM	1	0	20.84	20.73	20.82			
3	16QAM	1	8	20.98	20.97	21.21			
3	16QAM	1	14	20.85	20.77	21.17	22	0	
3	16QAM	8	0	20.76	20.76	20.86			
3	16QAM	8	4	20.75	20.89	20.77			
3	16QAM	8	7	20.74	20.80	20.70	22	0	
3	16QAM	15	0	20.79	20.69	20.76			
3	64QAM	1	0	21.10	21.11	20.98			
3	64QAM	1	8	20.99	21.07	20.98	22	0	
3	64QAM	1	14	20.64	20.97	21.14			
3	64QAM	8	0	20.68	20.67	20.88			
3	64QAM	8	4	20.71	20.82	20.72	21	1	
3	64QAM	8	7	20.80	20.88	20.71			
3	64QAM	15	0	20.73	20.74	20.67			
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1850.7	1880	1909.3			
1.4	QPSK	1	0	20.79	20.83	20.77	22	0	
1.4	QPSK	1	3	20.84	20.82	20.68			
1.4	QPSK	1	5	20.75	20.70	20.81			
1.4	QPSK	3	0	20.73	20.73	20.75	22	0	
1.4	QPSK	3	1	20.91	20.78	20.84			
1.4	QPSK	3	3	20.79	20.82	20.72			
1.4	QPSK	6	0	20.84	20.83	20.77	22	0	
1.4	16QAM	1	0	20.81	21.05	21.10			
1.4	16QAM	1	3	21.09	20.88	20.92	22	0	
1.4	16QAM	1	5	20.90	21.00	21.25			
1.4	16QAM	3	1	20.97	20.87	20.88			
1.4	16QAM	3	3	20.89	20.75	20.95	22	0	
1.4	16QAM	6	0	20.92	20.92	20.98			
1.4	64QAM	1	0	20.98	20.99	20.97			
1.4	64QAM	1	3	20.92	20.74	20.95	22	0	
1.4	64QAM	1	5	20.97	20.76	20.82			
1.4	64QAM	3	0	20.97	20.99	20.67			
1.4	64QAM	3	1	20.87	20.96	21.08	22	0	
1.4	64QAM	3	3	21.07	20.82	20.86			
1.4	64QAM	6	0	20.85	20.84	20.85			

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Band 7 (2600MHz Band) - for Body											
Part 27											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				20850	21100	21350	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2510	2535	2560					
20	QPSK	1	0	21.39	21.58	21.38	22	0			
20	QPSK	1	49	21.39	21.30	21.26					
20	QPSK	1	99	21.31	21.33	21.30					
20	QPSK	50	0	21.40	21.53	21.35					
20	QPSK	50	24	21.20	21.38	21.40	22	0			
20	QPSK	50	50	21.51	21.45	21.50					
20	QPSK	100	0	21.27	21.39	21.30					
20	16QAM	1	0	21.42	21.50	21.51					
20	16QAM	1	49	21.30	21.53	21.30	22	0			
20	16QAM	1	99	21.55	21.50	21.54					
20	16QAM	50	0	20.93	20.81	20.83					
20	16QAM	50	24	21.07	20.91	20.82					
20	16QAM	50	50	21.06	21.02	20.96	21.5	0.5			
20	16QAM	100	0	20.97	20.78	20.87					
20	64QAM	1	0	21.43	21.49	21.20					
20	64QAM	1	49	21.40	21.30	21.30					
20	64QAM	1	99	21.30	21.50	21.23	21.5	0.5			
20	64QAM	50	0	20.36	20.33	20.45					
20	64QAM	50	24	20.44	20.42	20.40					
20	64QAM	50	50	20.38	20.50	20.33					
20	64QAM	100	0	20.49	20.40	20.37	Channel				
Frequency (MHz)				20825	21100	21375	Tune-up limit (dBm)				
15	QPSK	1	0	21.34	21.27	21.27	22	0			
15	QPSK	1	37	21.30	21.41	21.32					
15	QPSK	1	74	21.39	21.34	21.36					
15	QPSK	36	0	21.51	21.38	21.41					
15	QPSK	36	20	21.55	21.45	21.39	22	0			
15	QPSK	36	39	21.53	21.51	21.40					
15	QPSK	75	0	21.46	21.39	21.40					
15	16QAM	1	0	21.54	21.52	21.41					
15	16QAM	1	37	21.56	21.31	21.56	22	0			
15	16QAM	1	74	21.34	21.50	21.34					
15	16QAM	36	0	21.00	20.94	20.92					
15	16QAM	36	20	21.07	20.92	21.00					
15	16QAM	36	39	21.09	20.98	21.03	21.5	0.5			
15	16QAM	75	0	21.03	20.95	20.93					
15	64QAM	1	0	21.49	21.21	21.07					
15	64QAM	1	37	21.30	21.23	21.09					
15	64QAM	1	74	21.31	21.20	21.03	21.5	0.5			
15	64QAM	36	0	20.46	20.43	20.32					
15	64QAM	36	20	20.33	20.49	20.45					
15	64QAM	36	39	20.47	20.42	20.45					
15	64QAM	75	0	20.45	20.36	20.36	Channel				
Frequency (MHz)				20800	21100	21300	Tune-up limit (dBm)				
10	QPSK	1	0	21.13	21.29	21.33	22	0			
10	QPSK	1	25	21.34	21.33	21.15					
10	QPSK	1	49	21.31	21.39	21.40					
10	QPSK	25	0	21.44	21.31	21.35					
10	QPSK	25	12	21.54	21.39	21.44	22	0			
10	QPSK	25	25	21.42	21.49	21.46					
10	QPSK	50	0	21.55	21.46	21.33					
10	16QAM	1	0	21.49	21.49	21.49					
10	16QAM	1	25	21.31	21.48	21.55	22	0			
10	16QAM	1	49	21.40	21.34	21.34					
10	16QAM	25	0	20.99	20.90	21.06					
10	16QAM	25	12	21.06	20.94	20.87					
10	16QAM	25	25	20.87	21.02	20.96	21.5	0.5			
10	16QAM	50	0	20.98	20.96	20.77					
10	64QAM	1	0	21.23	21.41	21.23					
10	64QAM	1	25	21.00	21.20	21.02					
10	64QAM	1	49	21.32	21.27	21.31	21.5	0.5			
10	64QAM	25	0	20.48	20.40	20.42					
10	64QAM	25	12	20.44	20.46	20.42					
10	64QAM	25	25	20.49	20.37	20.35					
10	64QAM	50	0	20.32	20.41	20.44	Channel				
Frequency (MHz)				20775	21100	21425	Tune-up limit (dBm)				
5	QPSK	1	0	21.37	21.29	21.36	22	0			
5	QPSK	1	12	21.46	21.32	21.32					
5	QPSK	1	24	21.35	21.40	21.32					
5	QPSK	12	0	21.48	21.39	21.38					
5	QPSK	12	7	21.52	21.34	21.41	22	0			
5	QPSK	12	13	21.45	21.42	21.42					
5	QPSK	25	0	21.50	21.41	21.45					
5	16QAM	1	0	21.54	21.43	21.08					
5	16QAM	1	12	21.30	21.30	21.23	22	0			
5	16QAM	1	24	21.33	21.54	21.24					
5	16QAM	12	0	21.11	20.94	21.32					
5	16QAM	12	7	21.08	20.95	20.88					
5	16QAM	12	13	20.89	21.02	20.99	21.5	0.5			
5	16QAM	25	0	20.99	20.88	20.92					
5	64QAM	1	0	21.32	21.20	21.48					
5	64QAM	1	12	21.40	21.40	21.44					
5	64QAM	1	24	21.30	21.50	21.25	20.5	1.5			
5	64QAM	12	0	20.45	20.41	20.27					
5	64QAM	12	7	20.47	20.34	20.47					
5	64QAM	12	13	20.44	20.41	20.41					
5	64QAM	25	0	20.47	20.45	20.47	Channel				

Band 66 - for Body												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (dBm)	Power Middle Ch. (dBm)	Power High Ch. (dBm)	Tune-up limit (dBm)	MPR (dB)				
Channel				132072	132322	132572	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				1720	1745	1770						
20	QPSK	1	0	21.72	21.87	21.90	23	0				
20	QPSK	1	49	21.59	21.82	21.86						
20	QPSK	1	99	21.56	21.81	21.86						
20	QPSK	50	0	20.71	20.93	21.04						
20	QPSK	50	24	20.76	20.96	20.82	22.5	0.5				
20	QPSK	50	50	20.76	21.03	20.76						
20	QPSK	100	0	20.81	20.90	20.91						
20	16QAM	1	0	21.07	20.95	21.11						
20	16QAM	1	49	21.11	21.05	21.16	22.5	0.5				
20	16QAM	1	99	20.91	21.11	21.06						
20	16QAM	50	0	19.67	19.79	19.91						
20	16QAM	50	24	19.86	19.82	19.88						
20	16QAM	50	50	19.81	19.79	19.94	21.5	1.5				
20	16QAM	100	0	19.79	19.74	19.90						
20	64QAM	1	0	20.92	20.82	20.78						
20	64QAM	1	49	20.71	20.98	20.78						
20	64QAM	1	99	20.75	20.96	20.95	21.5	1.5				
20	64QAM	50	0	19.72	19.65	19.86						
20	64QAM	50	24	19.67	19.84	19.90						
20	64QAM	50	50	19.76	19.77	19.99						
20	64QAM	100	0	19.62	19.80	19.90	20.5	2.5				
Channel				132047	132322	132597				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5						
15	QPSK	1	0	21.64	21.67	21.82				23	0	
15	QPSK	1	37	21.61	21.65	21.87						
15	QPSK	1	74	21.63	21.69	21.79						
15	QPSK	36	0	20.70	20.75	20.85						
15	QPSK	36	20	20.84	20.80	20.83	22.5	0.5				
15	QPSK	36	39	20.75	20.79	20.96						
15	QPSK	75	0	20.69	20.78	20.95						
15	16QAM	1	0	20.95	20.93	21.20						
15	16QAM	1	37	20.92	20.97	21.06	22.5	0.5				
15	16QAM	1	74	21.05	21.05	21.11						
15	16QAM	36	0	19.89	19.77	19.88						
15	16QAM	36	20	19.81	19.82	20.00	21.5	1.5				
15	16QAM	36	39	19.78	19.70	19.85						
15	16QAM	75	0	19.78	19.78	19.96						
15	16QAM	1	0	20.86	20.79	20.96						
15	64QAM	1	37	20.91	20.85	21.03	21.5	1.5				
15	64QAM	1	74	20.94	20.94	20.97						
15	64QAM	36	0	19.70	19.73	19.88						
15	64QAM	36	20	19.78	19.78	19.98						
15	64QAM	36	39	19.61	19.79	19.85	20.5	2.5				
15	64QAM	75	0	19.87	19.76	19.98						
Channel				132022	132322	132622				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1745	1770	1795						
10	QPSK	1	0	21.69	21.89	21.85	23	0				
10	QPSK	1	26	21.54	21.62	21.63						
10	QPSK	1	49	21.67	21.56	21.82						
10	QPSK	25	0	20.74	20.69	20.87						
10	QPSK	25	12	20.76	20.76	20.92	22.5	0.5				
10	QPSK	25	25	20.75	20.74	20.94						
10	QPSK	50	0	20.81	20.75	21.01						
10	16QAM	1	0	21.02	21.12	21.17						
10	16QAM	1	25	21.00	20.98	21.25	22.5	0.5				
10	16QAM	1	49	20.95	20.95	21.16						
10	16QAM	25	0	19.78	19.75	19.93						
10	16QAM	25	12	19.75	19.82	19.92	21.5	1.5				
10	16QAM	25	25	19.71	19.71	19.99						
10	16QAM	50	0	19.78	19.69	19.88						
10	64QAM	1	0	21.12	20.82	21.29						
10	64QAM	1	25	21.02	20.96	21.21	21.5	1.5				
10	64QAM	1	49	21.10	21.03	21.25						
10	64QAM	25	0	19.75	19.81	19.94						
10	64QAM	25	12	19.86	19.83	20.03						
10	64QAM	25	25	20.02	19.73	19.97	20.5	2.5				
10	64QAM	50	0	19.78	19.78	19.88						
Channel				131997	132322	132647				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5						
5	QPSK	1	0	21.76	21.89	21.66	23	0				
5	QPSK	1	12	21.59	21.80	21.55						
5	QPSK	1	24	21.57	21.87	21.71						
5	QPSK	12	0	20.82	20.58	20.69						
5	QPSK	12	7	20.83	20.62	20.68	22.5	0.5				
5	QPSK	12	13	20.72	20.59	20.75						
5	QPSK	25	0	20.79	20.55	20.73						
5	16QAM	1	0	21.03	20.88	20.92						
5	16QAM	1	12	20.94	20.85	20.94	22.5	0.5				
5	16QAM	1	24	20.98	20.85	21.00						
5	16QAM	12	0	19.76	19.54	19.62						
5	16QAM	12	7	19.80	19.57	19.68						
5	16QAM	12	13	19.74	19.65	19.72	21.5	1.5				
5	16QAM	25	0	19.78	19.62	19.88						
5	64QAM	1	0	20.98	19.99	20.02						
5	64QAM	1	12	19.91	19.81	20.03						
5	64QAM	1	24	20.09	19.93	20.80	21.5	1.5				
5	64QAM	12	0	19.32	19.22	19.95						
5	64QAM	12	7	19.33	19.15	19.90						
5	64QAM	12	13	19.33	19.22	19.86						
5	64QAM	25	0	19.36	19.14	19.88	20.5	2.5				
Channel				131987	132322	132657				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1745	1778.5						
3	QPSK	1	0	21.69	21.89	21.63				23	0	
3	QPSK	1	8	21.71	21.54	21.70						
3	QPSK	1	14	21.69	21.57	21.65						
3	QPSK	8	0	20.86	20.56	20.77						
3	QPSK	8	4	20.80	20.55	20.76	22.5	0.5				
3	QPSK	8	7	20.81	20.60	20.78						
3	QPSK	15	0	20.82	20.51	20.80						
3	16QAM	1	0	21.06	20.79	21.09						
3	16QAM	1	8	20.96	20.80	20.94	22.5	0.5				
3	16QAM	1	14	21.07	20.80	21.00						
3	16QAM	8	0	19.78	19.58	19.83						
3	16QAM	8	4	19.81	19.05	19.81						
3	16QAM	8	7	19.85	19.58	19.81	21.5	1.5				
3	16QAM	15	0	19.76	19.52	19.79						
3	64QAM	1	0	20.03	19.68	19.92						
3	64QAM	1	8	19.89	19.68	19.85						
3	64QAM	1	14	19.85	19.65	19.81	21.5	1.5				
3	64QAM	8	0	19.90	19.59	19.94						
3	64QAM	8	4	18.87	18.67	18.78						
3	64QAM	8	7	18.84	18.70	18.81						
3	64QAM	15	0	18.83	18.56	18.78	20.5	2.5				
Channel				131979	132322	132666				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710.5	1745	1779.5						
1.4	QPSK	1	0	21.68	21.55	21.73				23	0	
1.4	QPSK	1	3	21.65	21.84	21.80						
1.4	QPSK	1	5	21.52	21.84	21.56						
1.4	QPSK	3	1	21.60	21.66	21.60						
1.4	QPSK	3	3	21.66	21.68	21.63	22.5	0.5				
1.4	QPSK	6	0	20.77	20.66	20.67						
1.4	16QAM	1	0	20.89	20.83	20.98						
1.4	16QAM	1	3	21.00	20.82	20.91						
1.4	16QAM	1	5	20.99	20.67	20.91	22.5	0.5				
1.4	16QAM	3	0	20.70	20.53	20.66						
1.4	16QAM	3	1	20.65	20.89	20.60						
1.4	16QAM	3	3	20.66	20.50	20.61						
1.4	16QAM	6	0	19.75	19.58	19.69	21.5	1.5				
1.4	64QAM	1	0	20.87	20.68	20.88						
1.4	64QAM	1	3	20.93	20.65	20.82						
1.4	64QAM	1	5	20.70	20.70	20.63						
1.4	64QAM	3	0	20.73	20.50	20.63	21.5	1.5				
1.4	64QAM	3	1	20.71	20.51	20.65						
1.4	64QAM	3	3	20.66	20.55	20.65						
1.4	64QAM	6	0	19.39	19.23	19.30						

Band 4 - Body									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	21.74	21.85	21.68	23	0	
20	QPSK	1	49	21.60	21.53	21.57			
20	QPSK	1	99	21.56	21.62	21.68			
20	QPSK	50	0	20.78	20.87	20.81	22.5	0.5	
20	QPSK	50	24	20.86	20.80	20.78			
20	QPSK	50	50	20.67	20.65	20.70			
20	QPSK	100	0	20.75	20.77	20.76	22.5	0.5	
20	16QAM	1	0	20.95	21.14	20.94			
20	16QAM	1	49	20.97	20.70	20.93			
20	16QAM	1	99	20.85	20.94	20.90	21.5	1.5	
20	16QAM	50	0	19.79	19.76	19.80			
20	16QAM	50	24	19.84	19.77	19.80			
20	16QAM	50	50	19.74	19.67	19.77	21.5	1.5	
20	16QAM	100	0	19.73	19.78	19.61			
20	64QAM	1	0	20.78	20.93	20.80			
20	64QAM	1	49	20.87	20.75	20.83	21.5	1.5	
20	64QAM	1	99	20.84	20.60	20.69			
20	64QAM	50	0	19.70	19.80	19.86			
20	64QAM	50	24	19.85	19.74	19.68	20.5	2.5	
20	64QAM	50	50	19.75	19.66	19.77			
20	64QAM	100	0	19.82	19.84	19.73			
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	21.67	21.74	21.72			
15	QPSK	1	37	21.60	21.60	21.70	23	0	
15	QPSK	1	74	21.58	21.64	21.76			
15	QPSK	36	0	20.68	20.74	20.82			
15	QPSK	36	20	20.72	20.81	20.81	22.5	0.5	
15	QPSK	36	39	20.77	20.72	20.79			
15	QPSK	75	0	20.75	20.70	20.79			
15	16QAM	1	0	20.95	21.09	21.09	22.5	0.5	
15	16QAM	1	37	20.78	20.96	21.04			
15	16QAM	1	74	20.84	20.92	21.08			
15	16QAM	36	0	19.77	19.74	19.81	21.5	1.5	
15	16QAM	36	20	19.67	19.76	19.78			
15	16QAM	36	39	19.73	19.74	19.81			
15	16QAM	75	0	19.75	19.81	19.82	21.5	1.5	
15	64QAM	1	0	20.87	20.94	20.91			
15	64QAM	1	37	20.75	20.85	20.72			
15	64QAM	1	74	20.62	20.79	20.93	21.5	1.5	
15	64QAM	36	0	19.75	19.82	19.79			
15	64QAM	36	20	19.74	19.70	19.81			
15	64QAM	36	39	19.75	19.85	19.76	20.5	2.5	
15	64QAM	75	0	19.76	19.70	19.76			
Channel				20000	20175	20350			
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	21.73	21.62	21.74			
10	QPSK	1	25	21.77	21.77	21.84	23	0	
10	QPSK	1	49	21.74	21.73	21.84			
10	QPSK	25	0	20.76	20.77	20.82			
10	QPSK	25	12	20.80	20.82	20.91	22.5	0.5	
10	QPSK	25	25	20.81	20.89	20.91			
10	QPSK	50	0	20.83	20.81	20.92			
10	16QAM	1	0	20.99	21.06	21.02	22.5	0.5	
10	16QAM	1	25	21.08	21.00	21.15			
10	16QAM	1	49	21.10	21.05	21.12			
10	16QAM	25	0	19.84	19.78	19.91	21.5	1.5	
10	16QAM	25	12	19.90	19.86	19.94			
10	16QAM	25	25	19.83	19.88	19.95			
10	16QAM	50	0	19.81	19.82	19.93	21.5	1.5	
10	64QAM	1	0	20.97	20.88	20.92			
10	64QAM	1	25	20.97	20.97	20.99			
10	64QAM	1	49	20.91	20.98	21.02	21.5	1.5	
10	64QAM	25	0	19.77	19.75	19.84			
10	64QAM	25	12	19.83	19.75	19.95			
10	64QAM	25	25	19.83	19.82	19.85	20.5	2.5	
10	64QAM	50	0	19.83	19.82	19.88			
Channel				19975	20185	20375			
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	21.65	21.64	21.66			
5	QPSK	1	12	21.64	21.61	21.77	23	0	
5	QPSK	1	24	21.63	21.81	21.76			
5	QPSK	12	0	20.84	20.73	20.84			
5	QPSK	12	7	20.85	20.88	20.82	22.5	0.5	
5	QPSK	12	13	20.81	20.90	20.98			
5	QPSK	25	0	20.83	20.86	20.85			
5	16QAM	1	0	21.09	21.15	21.03	22.5	0.5	
5	16QAM	1	12	20.92	20.94	21.05			
5	16QAM	1	24	21.08	20.98	21.15			
5	16QAM	12	0	19.80	19.65	19.69	21.5	1.5	
5	16QAM	12	7	19.92	19.89	19.87			
5	16QAM	12	13	19.85	19.80	19.99			
5	16QAM	25	0	19.84	19.89	19.78	21.5	1.5	
5	64QAM	1	0	21.09	20.82	20.85			
5	64QAM	1	12	21.02	20.88	20.90			
5	64QAM	1	24	20.85	21.01	21.00	21.5	1.5	
5	64QAM	12	0	19.81	19.75	19.77			
5	64QAM	12	7	19.93	19.69	19.88			
5	64QAM	12	13	19.87	19.79	19.93	20.5	2.5	
5	64QAM	25	0	19.87	19.81	19.87			
Channel				19955	20175	20385			
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	21.64	21.57	21.60			
3	QPSK	1	8	21.66	21.68	21.67	23	0	
3	QPSK	1	14	21.64	21.71	21.62			
3	QPSK	8	0	20.81	20.70	20.74			
3	QPSK	8	4	20.75	20.70	20.75	22.5	0.5	
3	QPSK	8	7	20.76	20.74	20.75			
3	QPSK	15	0	20.77	20.65	20.77			
3	16QAM	1	0	21.01	20.93	21.06	22.5	0.5	
3	16QAM	1	8	20.91	20.95	20.87			
3	16QAM	1	14	21.02	20.94	20.91			
3	16QAM	8	0	19.73	19.72	19.80	21.5	1.5	
3	16QAM	8	4	19.76	19.69	19.78			
3	16QAM	8	7	19.80	19.72	19.78			
3	16QAM	15	0	19.71	19.66	19.76	21.5	1.5	
3	64QAM	1	0	19.96	19.82	19.89			
3	64QAM	1	8	19.84	19.82	19.82			
3	64QAM	1	14	19.80	19.79	19.88	20.5	2.5	
3	64QAM	8	0	18.85	18.73	18.81			
3	64QAM	8	4	18.82	18.81	18.75			
3	64QAM	8	7	18.79	18.84	18.78	20.5	2.5	
3	64QAM	15	0	18.78	18.70	18.73			
Channel				19957	20175	20393			
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	21.65	21.51	21.64			
1.4	QPSK	1	3	21.66	21.56	21.68	23	0	
1.4	QPSK	1	6	21.64	21.51	21.67			
1.4	QPSK	3	0	21.66	21.52	21.68			
1.4	QPSK	3	1	21.71	21.54	21.67	22.5	0.5	
1.4	QPSK	3	3	21.68	21.51	21.70			
1.4	QPSK	6	0	20.75	20.63	20.75			
1.4	16QAM	1	0	20.97	20.90	20.97	22.5	0.5	
1.4	16QAM	1	3	21.01	20.93	20.99			
1.4	16QAM	1	6	20.92	20.90	20.98			
1.4	16QAM	3	0	20.76	20.59	20.72	22.5	0.5	
1.4	16QAM	3	1	20.82	20.65	20.72			
1.4	16QAM	3	3	20.83	20.62	20.73			
1.4	16QAM	6	0	19.83	19.67	19.85	21.5	1.5	
1.4	64QAM	1	0	20.95	20.83	20.83			
1.4	64QAM	1	3	20.88	20.68	20.97			
1.4	64QAM	1	5	20.69	20.66	20.85	21.5	1.5	
1.4	64QAM	1	8	20.73	20.67	20.87			
1.4	64QAM	3	1	20.62	20.27	20.73			
1.4	64QAM	3	3	20.80	20.63	20.75	20.5	2.5	
1.4	64QAM	6	0	19.74	19.58	19.77			

Band 2 (1900MHz Band)-Simultaneous for Head											
Part 24E											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)	< Tune-up-2	> Tune-up	Ch Delta > 0.5
Channel											
Frequency (MHz)											
20	QPSK	1	0	1755	1759	1793			0.95	0.51	
20	QPSK	1	49	1767	1777	1789	18.5	0	0.83	0.61	0.44
20	QPSK	1	99	1789	1788	1767			0.83	0.61	
20	QPSK	50	0	1752	1753	1741			1.09	0.97	
20	QPSK	50	24	1750	1750	1735	18.5	0	1.15	1.00	0.18
20	QPSK	50	50	1739	1740	1738			1.12	1.10	
20	QPSK	100	0	1757	1756	1743			1.07	0.92	0.15
20	16QAM	1	0	1750	1771	1756			1.00	0.75	
20	16QAM	1	49	1762	1743	1748	18.5	0	1.07	0.88	0.28
20	16QAM	1	99	1769	1743	1756			1.07	0.81	
20	16QAM	50	0	1753	1746	1739			1.11	0.97	
20	16QAM	50	24	1751	1755	1749	18.5	0	1.01	0.95	0.16
20	16QAM	50	50	1751	1749	1750			1.01	0.99	
20	16QAM	100	0	1747	1756	1735			1.15	0.94	0.21
20	64QAM	1	0	1745	1767	1755			1.05	0.83	
20	64QAM	1	49	1744	1745	1753	18.5	0	1.06	0.97	0.39
20	64QAM	1	99	1728	1754	1743			1.22	0.96	
20	64QAM	50	0	1734	1743	1728			1.22	1.07	
20	64QAM	50	24	1748	1759	1738	18.5	0	1.12	0.91	0.31
20	64QAM	50	50	1747	1754	1751			1.03	0.96	
20	64QAM	100	0	1752	1752	1747			1.03	0.98	0.05
Channel											
Frequency (MHz)											
15	QPSK	1	0	1745	1745	1747			1.05	1.03	
15	QPSK	1	37	1749	1743	1746	18.5	0	1.07	1.01	0.17
15	QPSK	1	74	1732	1741	1740			1.18	1.09	
15	QPSK	36	0	1756	1754	1755			0.96	0.94	
15	QPSK	36	20	1762	1761	1757	18.5	0	0.93	0.88	0.11
15	QPSK	36	39	1751	1759	1754			0.99	0.91	
15	QPSK	75	0	1757	1757	1764			0.93	0.86	0.07
15	16QAM	1	0	1744	1756	1754			1.06	0.94	
15	16QAM	1	37	1779	1754	1745	18.5	0	1.05	0.71	0.37
15	16QAM	1	74	1753	1780	1743			1.07	0.70	
15	16QAM	36	0	1763	1757	1743			1.07	0.87	
15	16QAM	36	20	1772	1772	1757	18.5	0	0.93	0.78	0.30
15	16QAM	36	39	1773	1769	1761			0.89	0.77	
15	16QAM	75	0	1765	1758	1755			0.95	0.85	0.10
15	64QAM	1	0	1759	1760	1773			0.91	0.77	
15	64QAM	1	37	1773	1762	1756	18.5	0	0.94	0.66	0.39
15	64QAM	1	74	1743	1770	1780			1.07	0.70	
15	64QAM	36	0	1763	1758	1753			0.97	0.87	
15	64QAM	36	20	1759	1768	1743	18.5	0	1.07	0.82	0.25
15	64QAM	36	39	1761	1764	1756			0.94	0.86	
15	64QAM	75	0	1752	1766	1750			1.00	0.84	0.16
Channel											
Frequency (MHz)											
10	QPSK	1	0	1743	1729	1749			1.21	1.01	
10	QPSK	1	25	1745	1746	1760	18.5	0	1.05	0.90	0.31
10	QPSK	1	49	1746	1736	1748			1.14	1.02	
10	QPSK	25	0	1754	1751	1742			1.08	0.96	
10	QPSK	25	12	1759	1762	1755	18.5	0	0.95	0.88	0.21
10	QPSK	25	25	1759	1763	1763			0.91	0.87	
10	QPSK	50	0	1764	1761	1755			0.96	0.84	0.09
10	16QAM	1	0	1793	1753	1788			0.97	0.57	
10	16QAM	1	25	1775	1795	1778	18.5	0	0.75	0.55	0.42
10	16QAM	1	49	1792	1778	1760			0.90	0.58	
10	16QAM	25	0	1765	1760	1748			1.02	0.85	
10	16QAM	25	12	1769	1762	1746	18.5	0	1.04	0.81	0.23
10	16QAM	25	25	1766	1753	1765			1.02	0.61	
10	16QAM	50	0	1770	1754	1749			1.01	0.80	0.21
10	64QAM	1	0	1778	1781	1793			0.72	0.57	
10	64QAM	1	25	1796	1780	1795	18.5	0	0.70	0.54	0.18
10	64QAM	1	49	1783	1783	1785			0.67	0.65	
10	64QAM	25	0	1773	1752	1754			0.98	0.77	0.21
10	64QAM	25	12	1763	1766	1754	18.5	0	0.96	0.84	0.06
10	64QAM	25	25	1762	1754	1756			0.95	0.88	
10	64QAM	50	0	1771	1762	1747			1.03	0.79	0.24
Channel											
Frequency (MHz)											
5	QPSK	1	0	1766	1748	1745			1.05	0.84	
5	QPSK	1	12	1769	1756	1740	18.5	0	1.10	0.81	0.29
5	QPSK	1	24	1761	1758	1759			0.94	0.89	
5	QPSK	12	0	1761	1748	1760			1.02	0.89	
5	QPSK	12	7	1768	1760	1760			0.90	0.82	0.20
5	QPSK	12	13	1760	1759	1759	18.5	0	0.91	0.90	
5	QPSK	25	0	1762	1756	1757			0.94	0.88	0.06
5	16QAM	1	0	1767	1778	1788			0.83	0.62	
5	16QAM	1	12	1789	1754	1765	18.5	0	0.85	0.56	0.44
5	16QAM	1	24	1781	1750	1789			1.00	0.61	
5	16QAM	12	0	1752	1750	1756			1.00	0.94	
5	16QAM	12	7	1766	1764	1764	18.5	0	0.86	0.84	0.18
5	16QAM	12	13	1767	1753	1768			0.97	0.82	
5	16QAM	25	0	1758	1757	1762			0.93	0.88	0.05
5	64QAM	1	0	1765	1789	1768			0.85	0.61	
5	64QAM	1	12	1789	1776	1770	18.5	0	0.80	0.61	0.33
5	64QAM	1	24	1756	1777	1789			0.94	0.61	
5	64QAM	12	0	1761	1761	1751			0.99	0.89	
5	64QAM	12	7	1766	1744	1764	18.5	0	1.06	0.84	0.22
5	64QAM	12	13	1748	1758	1763			1.02	0.87	
5	64QAM	25	0	1759	1761	1755			0.95	0.89	0.06
Channel											
Frequency (MHz)											
3	QPSK	1	0	1744	1751	1744			1.06	0.90	
3	QPSK	1	8	1754	1762	1766	18.5	0	0.96	0.84	0.22
3	QPSK	1	14	1746	1751	1756			1.04	0.94	
3	QPSK	8	0	1763	1754	1754			0.96	0.87	
3	QPSK	8	4	1760	1763	1761	18.5	0	0.90	0.87	0.10
3	QPSK	8	7	1753	1758	1758			0.97	0.92	
3	QPSK	15	0	1766	1753	1761			0.97	0.84	0.13
3	16QAM	1	0	1769	1798	1766			0.84	0.52	
3	16QAM	1	8	1775	1782	1787	18.5	0	0.75	0.63	0.32
3	16QAM	1	14	1773	1781	1788			0.77	0.62	
3	16QAM	8	0	1751	1766	1769			0.99	0.81	
3	16QAM	8	4	1762	1773	1759	18.5	0	0.91	0.77	0.25
3	16QAM	8	7	1776	1758	1768			0.92	0.74	
3	16QAM	15	0	1768	1756	1765			0.94	0.82	0.12
3	64QAM	1	0	1784	1768	1775			0.82	0.66	
3	64QAM	1	8	1798	1754	1780	18.5	0	0.96	0.52	0.44
3	64QAM	1	14	1778	1767	1763			0.87	0.72	
3	64QAM	8	0	1762	1755	1777			0.95	0.73	
3	64QAM	8	4	1767	1785	1754	18.5	0	0.96	0.65	0.31
3	64QAM	8	7	1779	1766	1754			0.96	0.71	
3	64QAM	15	0	1765	1766	1764			0.86	0.84	0.02
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	1754	1732	1749			1.18	0.96	
1.4	QPSK	1	3	1755	1734	1744			1.16	0.95	0.44
1.4	QPSK	1	5	1776	1734	1743	18.5	0	1.16	0.74	
1.4	QPSK	3	0	1743	1751	1771			1.07	0.79	
1.4	QPSK	3	1	1745	1740	1760			1.10	0.90	0.36
1.4	QPSK	3	3	1744	1735	1758			1.15	0.92	
1.4	QPSK	6	0	1734	1733	1773	18.5	0	1.17	0.77	0.40
1.4	16QAM	1	0	1753	1758	1777			0.97	0.73	
1.4	16QAM	1	3	1771	1762	1791			0.88	0.59	0.38
1.4	16QAM	1	5	1754	1759	1782	18.5	0	0.96	0.68	
1.4	16QAM	3	0	1731	1743	1776			1.19	0.74	
1.4	16QAM	3	1	1745	1745	1763			1.05	0.87	0.45
1.4	16QAM	3	3	1746	1746	1764	18.5	0	1.10	0.77	1.10
1.4	16QAM	6	0	1728	1751	1764			1.22	0.86	0.36
1.4	64QAM	1	0	1745	1762	1764			1.05	0.86	
1.4	64QAM	1	3	1756	1756	1778			0.94	0.72	0.45
1.4	64QAM	3	0	1766	1790	1783	18.5	0	0.84	0.60	
1.4	64QAM	3	1	1743	1765	1765			1.07	0.85	
1.4	64QAM	3	3	1744	1764	1774			0.94	0.74	0.33
1.4	64QAM	3	3	1744	1746	1772			1.06	0.78	
1.4	64QAM	6	0	1745	1753	1775	18.5	0	1.05	0.75	0.30

Band 4 -Simultaneous for Head										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel							19.5	0		
Frequency (MHz)										
20	QPSK	1	0	18.45	18.53	18.51	19.5	0		
20	QPSK	1	49	18.27	18.21	18.23				
20	QPSK	1	99	18.22	18.28	18.35				
20	QPSK	50	0	18.25	18.38	18.28				
20	QPSK	50	24	18.34	18.29	18.24				
20	QPSK	50	50	18.16	18.17	18.18				
20	QPSK	100	0	18.23	18.27	18.27	19.5	0		
20	16QAM	1	0	18.42	18.32	18.45				
20	16QAM	1	49	18.47	18.34	18.40				
20	16QAM	1	99	18.35	18.38	18.38				
20	16QAM	50	0	18.30	18.24	18.28				
20	16QAM	50	24	18.35	18.28	18.29				
20	16QAM	50	50	18.26	18.24	18.26	19.5	0		
20	16QAM	100	0	18.22	18.27	18.12				
20	64QAM	1	0	18.27	18.40	18.29				
20	64QAM	1	49	18.30	18.23	18.28				
20	64QAM	1	99	18.33	18.24	18.20				
20	64QAM	50	0	18.19	18.28	18.37				
20	64QAM	50	24	18.18	18.24	18.20	19.5	0		
20	64QAM	50	50	18.21	18.17	18.24				
20	64QAM	100	0	18.28	18.32	18.30				
Channel							19.5	0		
Frequency (MHz)										
15	QPSK	1	0	18.35	18.42	18.41	19.5	0		
15	QPSK	1	37	18.32	18.29	18.38				
15	QPSK	1	74	18.29	18.30	18.47				
15	QPSK	36	0	18.17	18.20	18.27				
15	QPSK	36	20	18.25	18.28	18.30				
15	QPSK	36	39	18.27	18.28	18.29				
15	QPSK	75	0	18.26	18.24	18.30	19.5	0		
15	16QAM	1	0	18.42	18.53	18.34				
15	16QAM	1	37	18.34	18.45	18.52				
15	16QAM	1	74	18.32	18.41	18.50				
15	16QAM	36	0	18.24	18.27	18.30				
15	16QAM	36	20	18.20	18.26	18.29				
15	16QAM	36	39	18.25	18.22	18.29	19.5	0		
15	16QAM	75	0	18.30	18.34	18.33				
15	64QAM	1	0	18.38	18.45	18.36				
15	64QAM	1	37	18.28	18.36	18.28	19.5	0		
15	64QAM	1	74	18.17	18.20	18.33				
15	64QAM	36	0	18.23	18.33	18.36				
15	64QAM	36	20	18.28	18.21	18.24				
15	64QAM	36	39	18.34	18.37	18.27				
15	64QAM	75	0	18.36	18.30	18.30				
Channel							19.5	0		
Frequency (MHz)										
10	QPSK	1	0	18.41	18.32	18.42	19.5	0		
10	QPSK	1	25	18.46	18.46	18.37				
10	QPSK	1	49	18.42	18.39	18.41				
10	QPSK	25	0	18.24	18.28	18.22				
10	QPSK	25	12	18.30	18.30	18.40				
10	QPSK	25	25	18.40	18.38	18.46				
10	QPSK	50	0	18.35	18.32	18.44	19.5	0		
10	16QAM	1	0	18.50	18.53	18.45				
10	16QAM	1	25	18.44	18.44	18.34				
10	16QAM	1	49	18.34	18.33	18.44				
10	16QAM	25	0	18.30	18.32	18.45				
10	16QAM	25	12	18.45	18.40	18.48				
10	16QAM	25	25	18.37	18.44	18.44	19.5	0		
10	16QAM	50	0	18.35	18.36	18.50				
10	64QAM	1	0	18.50	18.47	18.46				
10	64QAM	1	25	18.51	18.51	18.53				
10	64QAM	1	49	18.44	18.44	18.49				
10	64QAM	25	0	18.31	18.32	18.34				
10	64QAM	25	12	18.27	18.23	18.44	19.5	0		
10	64QAM	25	25	18.33	18.34	18.36				
10	64QAM	50	0	18.36	18.35	18.42				
Channel							19.5	0		
Frequency (MHz)										
5	QPSK	1	0	18.32	18.38	18.38	19.5	0		
5	QPSK	1	12	18.36	18.34	18.46				
5	QPSK	1	24	18.36	18.50	18.42				
5	QPSK	12	0	18.34	18.29	18.34				
5	QPSK	12	7	18.40	18.33	18.35				
5	QPSK	12	13	18.38	18.47	18.44				
5	QPSK	25	0	18.35	18.30	18.37	19.5	0		
5	16QAM	1	0	18.34	18.34	18.43				
5	16QAM	1	12	18.45	18.46	18.40				
5	16QAM	1	24	18.43	18.51	18.44				
5	16QAM	12	0	18.21	18.18	18.27				
5	16QAM	12	7	18.41	18.36	18.31				
5	16QAM	12	13	18.46	18.48	18.43	19.5	0		
5	16QAM	25	0	18.44	18.40	18.36				
5	64QAM	1	0	18.34	18.35	18.34				
5	64QAM	1	12	18.32	18.46	18.43				
5	64QAM	1	24	18.40	18.45	18.46				
5	64QAM	12	0	18.33	18.24	18.30				
5	64QAM	12	7	18.49	18.35	18.41	19.5	0		
5	64QAM	12	13	18.36	18.29	18.44				
5	64QAM	25	0	18.40	18.34	18.35				
Channel							19.5	0		
Frequency (MHz)										
3	QPSK	1	0	18.28	18.26	18.21	19.5	0		
3	QPSK	1	8	18.30	18.42	18.29				
3	QPSK	1	14	18.32	18.29	18.28				
3	QPSK	8	0	18.27	18.24	18.31				
3	QPSK	8	4	18.13	18.13	18.20				
3	QPSK	8	7	18.16	18.18	18.14				
3	QPSK	15	0	18.24	18.20	18.20	19.5	0		
3	16QAM	1	0	18.40	18.31	18.46				
3	16QAM	1	8	18.38	18.41	18.34				
3	16QAM	1	14	18.44	18.34	18.38				
3	16QAM	8	0	18.13	18.20	18.20				
3	16QAM	8	4	18.24	18.10	18.40				
3	16QAM	8	7	18.20	18.06	18.20	19.5	0		
3	16QAM	15	0	18.24	18.27	18.24				
3	64QAM	1	0	18.22	18.05	18.22				
3	64QAM	1	8	18.23	18.16	18.16				
3	64QAM	1	14	18.06	18.12	18.11				
3	64QAM	8	0	18.03	18.06	18.18				
3	64QAM	8	4	18.15	18.12	17.97	19.5	0		
3	64QAM	8	7	17.98	18.03	18.02				
3	64QAM	15	0	17.92	18.01	17.98				
Channel							19.5	0		
Frequency (MHz)										
1.4	QPSK	1	0	18.41	18.33	18.43	19.5	0		
1.4	QPSK	1	3	18.50	18.32	18.42				
1.4	QPSK	1	9	18.36	18.31	18.40				
1.4	QPSK	3	0	18.42	18.34	18.47				
1.4	QPSK	3	1	18.52	18.28	18.47				
1.4	QPSK	3	3	18.44	18.27	18.52				
1.4	QPSK	6	0	18.37	18.26	18.33	19.5	0		
1.4	16QAM	1	0	18.34	18.46	18.53				
1.4	16QAM	1	3	18.34	18.33	18.23				
1.4	16QAM	1	5	18.24	18.40	18.26				
1.4	16QAM	3	0	18.38	18.17	18.30				
1.4	16QAM	3	1	18.46	18.28	18.36				
1.4	16QAM	3	3	18.41	18.16	18.35	19.5	0		
1.4	16QAM	6	0	18.45	18.25	18.49				
1.4	64QAM	1	0	18.34	18.46	18.37				
1.4	64QAM	1	3	18.46	18.26	18.23				
1.4	64QAM	1	5	18.22	18.24	18.41				
1.4	64QAM	3	0	18.37	18.29	18.32				
1.4	64QAM	3	1	18.20	18.31	18.41	19.5	0		
1.4	64QAM	3	3	18.43	18.21	18.31				
1.4	64QAM	6	0	18.28	18.20	18.32				

Reduced Power Mode for Head-ANT6

Band		WCDMA I			WCDMA IV						
TX Channel		9562	9600	9638	Tune-up Limit		1312	1413	1513	Tune-up Limit	
Rx Channel		9562	9600	9638	(dBm)		1317	1638	1738	(dBm)	
Frequency (MHz)		1524	1600	1607.6			1712.4	1727.6	1732.8		
3GPP Rel 99	AMR 12.2kbps	20.72	20.73	20.71	22.00		22.21	22.15	22.14	23.00	
3GPP Rel 99	RMC 12.2kbps	20.73	20.75	20.72	22.00		22.25	22.17	22.16	23.00	
3GPP Rel 6	HSDSA Subtest-1	20.01	20.01	19.87	21.00	21.07	21.10	21.41	21.41	22.00	
3GPP Rel 6	HSDSA Subtest-2	19.99	19.88	19.74	21.00	21.11	21.16	21.35	21.35	22.00	
3GPP Rel 6	HSDSA Subtest-3	19.44	19.34	19.33	20.50	20.58	20.64	20.85	20.85	21.50	
3GPP Rel 6	HSDSA Subtest-4	19.42	19.32	19.23	20.50	20.58	20.64	20.84	20.84	21.50	
3GPP Rel 8	DC-HSDPA Subtest-1	19.93	19.91	19.88	21.00	20.97	21.00	21.02	21.02	22.00	
3GPP Rel 8	DC-HSDPA Subtest-2	19.97	19.96	20.01	21.00	21.02	20.97	20.99	20.99	22.00	
3GPP Rel 8	DC-HSDPA Subtest-3	19.49	19.46	19.47	20.50	20.47	20.49	20.51	20.51	21.50	
3GPP Rel 8	DC-HSDPA Subtest-4	19.42	19.39	19.43	20.50	20.46	20.48	20.45	20.45	21.50	
3GPP Rel 6	HSUPA Subtest-1	19.30	19.15	19.10	21.00	20.27	20.36	20.08	20.08	22.00	
3GPP Rel 6	HSUPA Subtest-2	17.10	17.01	17.11	19.00	18.15	18.25	18.15	18.15	20.00	
3GPP Rel 6	HSUPA Subtest-3	18.19	18.11	18.06	20.00	19.16	19.31	19.08	19.08	21.00	
3GPP Rel 6	HSUPA Subtest-4	17.07	17.00	17.09	19.00	18.14	18.22	18.14	18.14	20.00	
3GPP Rel 6	HSUPA Subtest-5	19.30	19.20	19.10	21.00	20.30	20.40	20.10	20.10	22.00	

Band 2 (1900MHz Band) - Receiver on									
Part 24E									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				18700	18800	19100			
Frequency (MHz)				18680	1880	1900			
20	QPSK	1	0	20.79	20.86	20.84	21.5	0	
20	QPSK	1	49	20.67	20.67	20.64			
20	QPSK	1	99	20.77	20.78	20.89			
20	QPSK	50	0	20.68	20.68	20.61			
20	QPSK	50	24	20.57	20.65	20.55	21.5	0	
20	QPSK	50	50	20.61	20.63	20.52			
20	QPSK	100	0	20.57	20.64	20.53			
20	16QAM	1	0	20.63	20.89	20.44			
20	16QAM	1	49	20.52	20.68	20.59	21.5	0	
20	16QAM	1	99	20.54	20.62	20.56			
20	16QAM	50	0	20.56	20.51	20.59			
20	16QAM	50	24	20.60	20.53	20.55			
20	16QAM	50	50	20.57	20.55	20.53	21.5	0	
20	16QAM	100	0	20.59	20.61	20.41			
20	64QAM	1	0	20.67	20.61	20.80			
20	64QAM	1	49	20.54	20.61	20.88			
20	64QAM	1	99	20.45	20.61	20.88	20.5	1	
20	64QAM	50	0	20.49	20.42	20.50			
20	64QAM	50	24	20.44	20.37	20.44			
20	64QAM	50	50	20.44	20.40	20.40			
20	64QAM	100	0	20.40	20.47	20.45	Channel		
Frequency (MHz)				18675	18900	19125	Tune-up limit (dbm)	MPR (db)	
				18675	18800	1902.5			
15	QPSK	1	0	20.64	20.67	20.54	21.5	0	
15	QPSK	1	37	20.40	20.30	20.55			
15	QPSK	1	74	20.52	20.42	20.43			
15	QPSK	36	0	20.53	20.51	20.45			
15	QPSK	36	36	20.71	20.56	20.50	21.5	0	
15	QPSK	36	39	20.65	20.51	20.58			
15	QPSK	75	0	20.59	20.60	20.51			
15	16QAM	1	0	20.65	20.78	20.41			
15	16QAM	1	37	20.61	20.78	20.78	21.5	0	
15	16QAM	1	74	20.78	20.56	20.59			
15	16QAM	36	0	20.49	20.47	20.43			
15	16QAM	36	20	20.58	20.54	20.48			
15	16QAM	36	39	20.67	20.58	20.58	21.5	0	
15	16QAM	75	0	20.62	20.56	20.41			
15	64QAM	1	0	20.58	20.49	20.68			
15	64QAM	1	37	20.77	20.60	20.77			
15	64QAM	1	74	20.70	20.70	20.69	21.5	0	
15	64QAM	36	0	20.56	20.56	20.58			
15	64QAM	36	39	20.45	20.36	20.43			
15	64QAM	36	20	20.44	20.42	20.34			
15	64QAM	36	39	20.42	20.37	20.45	20.5	1	
15	64QAM	75	0	20.43	20.46	20.32			
Channel				18650	18900	19150	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				18650	18800	1905			
10	QPSK	1	0	20.34	20.45	20.70	21.5	0	
10	QPSK	1	25	20.60	20.76	20.63			
10	QPSK	1	49	20.40	20.48	20.64			
10	QPSK	25	0	20.79	20.78	20.81			
10	QPSK	25	12	20.90	20.85	20.83	21.5	0	
10	QPSK	25	25	20.97	20.83	20.93			
10	QPSK	50	0	20.91	20.86	20.76			
10	16QAM	1	0	20.90	20.78	20.96			
10	16QAM	1	25	20.76	20.87	20.65	21.5	0	
10	16QAM	1	49	20.74	20.78	20.77			
10	16QAM	25	0	20.90	20.87	20.62			
10	16QAM	25	12	20.90	20.78	20.74			
10	16QAM	25	25	20.76	20.79	20.74	21.5	0	
10	16QAM	50	0	20.90	20.87	20.62			
10	64QAM	1	0	20.94	20.72	20.67			
10	64QAM	1	25	20.92	20.65	20.78			
10	64QAM	1	49	20.78	20.55	20.65	20.5	1	
10	64QAM	25	0	20.38	20.27	20.31			
10	64QAM	25	12	20.39	20.40	20.38			
10	64QAM	25	25	20.56	20.36	20.35			
10	64QAM	50	0	20.43	20.43	20.24	Channel		
Frequency (MHz)				18625	18900	19175	Tune-up limit (dbm)	MPR (db)	
				18625	18800	19007.5			
5	QPSK	1	0	20.53	20.36	20.34	21.5	0	
5	QPSK	1	12	20.64	20.55	20.61			
5	QPSK	1	24	20.34	20.44	20.48			
5	QPSK	12	0	20.60	20.52	20.50			
5	QPSK	12	7	20.51	20.52	20.54	21.5	0	
5	QPSK	12	13	20.58	20.51	20.55			
5	QPSK	25	0	20.54	20.50	20.66			
5	16QAM	1	0	20.81	20.86	20.78			
5	16QAM	1	12	20.69	20.40	20.55	21.5	0	
5	16QAM	1	24	20.69	20.50	20.84			
5	16QAM	12	0	20.56	20.53	20.51			
5	16QAM	12	7	20.64	20.70	20.54			
5	16QAM	12	13	20.62	20.58	20.65	21.5	0	
5	16QAM	25	0	20.47	20.58	20.56			
5	64QAM	1	0	20.87	20.82	20.96			
5	64QAM	1	12	20.83	20.68	20.83			
5	64QAM	1	24	20.66	20.76	20.81	20.5	1	
5	64QAM	12	0	20.27	20.06	20.22			
5	64QAM	12	7	20.31	20.27	20.38			
5	64QAM	12	13	20.11	20.22	20.26			
5	64QAM	25	0	20.17	20.26	20.22	Channel		
Frequency (MHz)				18515	18900	19206	Tune-up limit (dbm)	MPR (db)	
				18515	18900	19193			
3	QPSK	1	0	20.51	20.44	20.43	21.5	0	
3	QPSK	1	8	20.38	20.49	20.41			
3	QPSK	1	14	20.45	20.49	20.42			
3	QPSK	8	0	20.51	20.35	20.52			
3	QPSK	8	4	20.60	20.50	20.55	21.5	0	
3	QPSK	8	7	20.55	20.49	20.48			
3	QPSK	15	0	20.58	20.52	20.53			
3	16QAM	1	0	20.71	20.57	20.76			
3	16QAM	1	8	20.63	20.63	20.77	21.5	0	
3	16QAM	1	14	20.73	20.67	20.70			
3	16QAM	8	0	20.54	20.63	20.65			
3	16QAM	8	4	20.66	20.60	20.51			
3	16QAM	8	7	20.64	20.43	20.61	20.5	1	
3	16QAM	15	0	20.55	20.53	20.58			
3	64QAM	1	0	20.87	20.51	20.78			
3	64QAM	1	8	20.79	20.73	20.74			
3	64QAM	1	14	20.76	20.45	20.96	21.5	0	
3	64QAM	8	0	20.29	20.19	20.27			
3	64QAM	8	4	20.28	20.30	20.43			
3	64QAM	8	7	20.16	20.44	20.26			
3	64QAM	15	0	20.22	20.28	20.26	Channel		
Frequency (MHz)				18507	18900	19193	Tune-up limit (dbm)	MPR (db)	
				18507	18900	19193			
1.4	QPSK	1	0	20.36	20.34	20.38	21.5	0	
1.4	QPSK	1	3	20.39	20.39	20.31			
1.4	QPSK	1	5	20.31	20.30	20.27			
1.4	QPSK	3	0	20.36	20.45	20.36			
1.4	QPSK	3	3	20.58	20.31	20.43	21.5	0	
1.4	QPSK	3	3	20.31	20.36	20.35			
1.4	QPSK	6	0	20.45	20.45	20.38			
1.4	16QAM	1	0	20.90	20.76	20.37			
1.4	16QAM	1	3	20.94	20.90	20.65	21.5	0	
1.4	16QAM	1	3	20.76	20.55	20.79			
1.4	16QAM	3	1	20.63	20.58	20.56			
1.4	16QAM	3	3	20.68	20.76	20.57			
1.4	16QAM	3	3	20.43	20.57	20.52	21.5	0	
1.4	64QAM	1	0	20.65	20.61	20.42			
1.4	64QAM	1	3	20.67	20.87	20.76			
1.4	64QAM	1	3	20.62	20.85	20.69			
1.4	64QAM	3	0	20.56	20.76	20.64	20.5	0	
1.4	64QAM	3	1	20.76	20.38	20.53			
1.4	64QAM	3	1	20.31	20.63	20.78			
1.4	64QAM	3	3	20.54	20.60	20.76			
1.4	64QAM	6	0	20.40	20.40	20.44	20.5	1	

Band 4 - Receiver on									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	21.54	21.79	21.56	22.5	0	
20	QPSK	1	49	21.56	21.41	21.50			
20	QPSK	1	99	21.36	21.42	21.57			
20	QPSK	50	0	21.40	21.65	21.51	22.5	0	
20	QPSK	50	24	21.64	21.42	21.48			
20	QPSK	50	50	21.41	21.35	21.45			
20	QPSK	100	0	21.49	21.39	21.47	22.5	0	
20	16QAM	1	0	21.73	21.56	21.64			
20	16QAM	1	49	21.71	21.44	21.71			
20	16QAM	1	99	21.63	21.56	21.68	21.5	1	
20	16QAM	50	0	21.00	21.08	21.34			
20	16QAM	50	24	21.11	21.18	21.22			
20	16QAM	50	50	21.09	21.03	21.11	21.5	1	
20	16QAM	100	0	21.14	21.07	21.22			
20	64QAM	1	0	21.13	21.13	21.41			
20	64QAM	1	49	21.11	21.22	21.22	21.5	1	
20	64QAM	1	99	21.22	21.21	21.11			
20	64QAM	50	0	20.00	20.03	20.36			
20	64QAM	50	24	20.07	20.12	20.38	20.5	2	
20	64QAM	50	50	19.92	20.00	20.41			
20	64QAM	100	0	20.17	20.16	20.42			
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	21.59	21.66	21.68	22.5	0	
15	QPSK	1	37	21.56	21.52	21.62			
15	QPSK	1	74	21.50	21.60	21.68			
15	QPSK	36	0	21.46	21.48	21.60	22.5	0	
15	QPSK	36	20	21.34	21.59	21.55			
15	QPSK	36	39	21.51	21.50	21.57			
15	QPSK	75	0	21.49	21.44	21.57	22.5	0	
15	16QAM	1	0	21.73	21.56	21.54			
15	16QAM	1	37	21.52	21.74	21.78			
15	16QAM	1	74	21.62	21.66	21.55	21.5	1	
15	16QAM	36	0	21.31	21.27	21.20			
15	16QAM	36	20	21.28	21.24	21.24			
15	16QAM	36	39	21.22	21.33	21.28	21.5	1	
15	16QAM	75	0	21.27	21.13	21.11			
15	64QAM	1	0	21.14	21.39	21.21			
15	64QAM	1	37	21.24	21.33	21.38	21.5	1	
15	64QAM	1	74	21.30	21.43	21.16			
15	64QAM	36	0	20.24	20.19	20.20			
15	64QAM	36	20	20.32	20.25	20.25	20.5	2	
15	64QAM	36	39	20.34	20.27	20.27			
15	64QAM	75	0	20.31	20.15	20.25			
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	21.69	21.42	21.70	22.5	0	
10	QPSK	1	25	21.69	21.73	21.76			
10	QPSK	1	49	21.54	21.65	21.62			
10	QPSK	25	0	21.54	21.51	21.60	22.5	0	
10	QPSK	25	12	21.54	21.44	21.65			
10	QPSK	25	25	21.55	21.67	21.53			
10	QPSK	50	0	21.61	21.55	21.70	22.5	0	
10	16QAM	1	0	21.73	21.56	21.76			
10	16QAM	1	25	21.55	21.78	21.54			
10	16QAM	1	49	21.56	21.54	21.56	21.5	1	
10	16QAM	25	0	21.18	20.96	21.25			
10	16QAM	25	12	21.20	21.20	21.12			
10	16QAM	25	25	21.01	21.18	21.29	21.5	1	
10	16QAM	50	0	21.15	21.12	21.23			
10	64QAM	1	0	21.11	21.11	21.20			
10	64QAM	1	25	21.12	21.10	21.12	21.5	1	
10	64QAM	1	49	21.12	21.34	21.12			
10	64QAM	25	0	20.23	20.26	20.18			
10	64QAM	25	12	20.17	20.21	20.10	20.5	2	
10	64QAM	25	25	20.33	20.28	20.31			
10	64QAM	50	0	20.29	20.16	20.34			
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	21.61	21.60	21.62	22.5	0	
5	QPSK	1	12	21.56	21.57	21.69			
5	QPSK	1	24	21.55	21.73	21.72			
5	QPSK	12	0	21.46	21.47	21.62	22.5	0	
5	QPSK	12	7	21.63	21.66	21.60			
5	QPSK	12	13	21.55	21.64	21.76			
5	QPSK	25	0	21.61	21.60	21.59	22.5	0	
5	16QAM	1	0	21.56	21.77	21.77			
5	16QAM	1	12	21.66	21.68	21.56			
5	16QAM	1	24	21.66	21.72	21.54	21.5	1	
5	16QAM	12	0	21.14	20.83	20.99			
5	16QAM	12	7	21.22	21.19	21.17			
5	16QAM	12	13	21.15	21.14	21.29	21.5	1	
5	16QAM	25	0	21.14	21.23	20.96			
5	64QAM	1	0	21.12	21.16	21.31			
5	64QAM	1	12	21.12	21.12	21.12	21.5	1	
5	64QAM	1	24	21.31	21.08	21.01			
5	64QAM	12	0	20.15	20.21	20.11			
5	64QAM	12	7	20.27	20.15	20.12	20.5	2	
5	64QAM	12	13	20.11	20.25	20.12			
5	64QAM	25	0	20.33	20.15	20.33			
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	21.60	21.53	21.56	22.5	0	
3	QPSK	1	8	21.58	21.64	21.59			
3	QPSK	1	14	21.56	21.63	21.58			
3	QPSK	8	0	21.43	21.44	21.52	22.5	0	
3	QPSK	8	4	21.53	21.48	21.49			
3	QPSK	8	7	21.50	21.48	21.37			
3	QPSK	15	0	21.55	21.39	21.51	22.5	0	
3	16QAM	1	0	21.63	21.67	21.45			
3	16QAM	1	8	21.69	21.69	21.61			
3	16QAM	1	14	21.76	21.68	21.65	21.5	1	
3	16QAM	8	0	21.03	20.90	21.10			
3	16QAM	8	4	21.06	21.03	21.08			
3	16QAM	8	7	21.10	21.02	21.08	21.5	1	
3	16QAM	15	0	21.01	20.96	21.10			
3	64QAM	1	0	21.01	21.16	21.09			
3	64QAM	1	8	21.30	21.32	21.28	21.5	1	
3	64QAM	1	14	21.26	21.25	21.34			
3	64QAM	8	0	20.19	20.19	20.15			
3	64QAM	8	4	20.16	20.27	20.25	20.5	2	
3	64QAM	8	7	20.29	20.30	20.24			
3	64QAM	15	0	20.24	20.04	20.07			
Channel				19957	20175	20353	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	21.61	21.47	21.60	22.5	0	
1.4	QPSK	1	3	21.61	21.48	21.60			
1.4	QPSK	1	5	21.56	21.31	21.63			
1.4	QPSK	3	0	21.46	21.48	21.48	22.5	0	
1.4	QPSK	3	1	21.67	21.46	21.59			
1.4	QPSK	3	3	21.60	21.43	21.50			
1.4	QPSK	6	0	21.49	21.37	21.49	22.5	0	
1.4	16QAM	1	0	21.71	21.52	21.71			
1.4	16QAM	1	3	21.63	21.55	21.77			
1.4	16QAM	1	5	21.70	21.68	21.72	22.5	0	
1.4	16QAM	3	0	21.50	21.33	21.46			
1.4	16QAM	3	1	21.44	21.43	21.50			
1.4	16QAM	3	3	21.61	21.36	21.47	21.5	1	
1.4	16QAM	6	0	21.13	20.97	21.03			
1.4	64QAM	1	0	20.25	21.13	21.17			
1.4	64QAM	1	3	21.18	20.98	21.27	21.5	1	
1.4	64QAM	1	5	20.87	20.84	21.15			
1.4	64QAM	3	0	21.07	20.90	20.96			
1.4	64QAM	3	1	20.90	20.91	21.03	20.5	2	
1.4	64QAM	3	3	21.14	21.04	21.11			
1.4	64QAM	6	0	20.04	19.76	19.95			

Band 38 - Receiver on									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	19.94	19.97	19.96	21	0	
20	QPSK	1	49	19.90	19.88	19.84			
20	QPSK	1	99	19.88	19.87	19.80			
20	QPSK	50	0	19.88	19.88	19.88	21	0	
20	QPSK	50	24	19.95	19.87	19.89			
20	QPSK	50	50	19.92	19.88	19.85			
20	QPSK	100	0	19.91	19.96	19.90	21	0	
20	16QAM	1	0	19.95	19.87	19.90			
20	16QAM	1	49	19.80	19.89	19.77			
20	16QAM	1	99	19.81	19.78	19.76	21	0	
20	16QAM	50	0	19.91	19.93	19.94			
20	16QAM	50	24	19.87	19.95	19.87			
20	16QAM	50	50	19.91	19.94	19.79	21	0	
20	16QAM	100	0	19.88	19.80	19.92			
20	64QAM	1	0	19.81	19.91	19.91			
20	64QAM	1	49	19.81	19.88	19.90	21	0	
20	64QAM	1	99	19.77	19.74	19.67			
20	64QAM	50	0	19.93	19.94	19.86			
20	64QAM	50	24	19.88	19.87	19.94	20.5	0.5	
20	64QAM	50	50	19.88	19.87	19.83			
20	64QAM	100	0	19.95	19.96	19.93			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	19.06	19.93	19.91	21	0	
15	QPSK	1	37	19.93	19.86	19.83			
15	QPSK	1	74	19.81	19.87	19.83			
15	QPSK	36	0	19.85	19.86	19.84	21	0	
15	QPSK	36	20	19.90	19.83	19.78			
15	QPSK	36	39	19.81	19.86	19.82			
15	QPSK	75	0	19.87	19.89	19.83	21	0	
15	16QAM	1	0	19.06	19.88	19.91			
15	16QAM	1	37	19.78	19.83	19.77			
15	16QAM	1	74	19.80	19.80	19.75	21	0	
15	16QAM	36	0	19.71	19.89	19.87			
15	16QAM	36	20	19.86	19.86	19.66			
15	16QAM	36	39	19.81	19.84	19.78	21	0	
15	16QAM	75	0	19.88	19.89	19.76			
15	64QAM	1	0	19.70	19.91	19.74			
15	64QAM	1	37	19.81	19.91	19.76	21	0	
15	64QAM	1	74	19.73	19.78	19.60			
15	64QAM	36	0	19.93	19.89	19.87			
15	64QAM	36	20	19.88	19.82	19.82	20.5	0.5	
15	64QAM	36	39	19.95	19.87	19.81			
15	64QAM	75	0	19.93	19.93	19.89			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	19.96	19.92	19.95	21	0	
10	QPSK	1	25	19.92	19.94	19.84			
10	QPSK	1	49	19.79	19.75	19.81			
10	QPSK	25	0	19.80	19.79	19.84	21	0	
10	QPSK	25	12	19.88	19.77	19.67			
10	QPSK	25	25	19.91	19.83	19.91			
10	QPSK	50	0	19.79	19.75	19.68	21	0	
10	16QAM	1	0	19.88	19.90	19.95			
10	16QAM	1	25	19.91	19.86	19.86			
10	16QAM	1	49	19.78	19.75	19.67	21	0	
10	16QAM	25	0	19.85	19.75	19.76			
10	16QAM	25	12	19.89	19.74	19.69			
10	16QAM	25	25	19.72	19.92	19.69	21	0	
10	16QAM	50	0	19.93	19.94	19.79			
10	64QAM	1	0	19.89	19.87	19.89			
10	64QAM	1	25	19.75	19.90	19.67	21	0	
10	64QAM	1	49	19.74	19.74	19.64			
10	64QAM	25	0	19.95	19.92	19.90			
10	64QAM	25	12	19.92	19.93	19.78	20.5	0.5	
10	64QAM	25	25	19.87	19.90	19.87			
10	64QAM	50	0	19.95	19.96	19.83			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	19.93	19.93	19.92	21	0	
5	QPSK	1	12	19.81	19.88	19.78			
5	QPSK	1	24	19.93	19.95	19.90			
5	QPSK	12	0	19.79	19.90	19.77	21	0	
5	QPSK	12	7	19.90	19.81	19.90			
5	QPSK	12	13	19.90	19.91	19.85			
5	QPSK	25	0	19.80	19.94	19.81	21	0	
5	16QAM	1	0	19.91	19.89	19.96			
5	16QAM	1	12	19.89	19.91	19.83			
5	16QAM	1	24	19.87	19.96	19.96	21	0	
5	16QAM	12	0	19.86	19.76	19.82			
5	16QAM	12	7	19.91	19.81	19.79			
5	16QAM	12	13	19.87	19.77	19.67	21	0	
5	16QAM	25	0	19.77	19.92	19.89			
5	64QAM	1	0	19.85	19.80	19.88			
5	64QAM	1	12	19.92	19.93	19.81	21	0	
5	64QAM	1	24	19.79	19.87	19.75			
5	64QAM	12	0	19.96	19.92	19.88			
5	64QAM	12	7	19.89	19.87	19.87	20.5	0.5	
5	64QAM	12	13	19.89	19.93	19.87			
5	64QAM	25	0	19.89	19.93	19.96			

Band 41 (2.6G Band) - Receiver on											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620	41055	41490	21	0	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	20.21	20.12	20.11	20.22	20.30	21	0	
20	QPSK	1	49	19.91	19.89	20.12	20.11	20.12			
20	QPSK	1	99	19.81	19.80	19.96	20.04	20.04	21	0	
20	QPSK	50	0	19.85	19.82	19.95	20.09	20.12			
20	QPSK	50	24	19.98	19.98	20.03	20.11	20.09	21	0	
20	QPSK	50	50	19.91	20.00	20.10	20.10	20.12			
20	QPSK	100	0	19.93	20.02	20.05	20.09	20.09	21	0	
16QAM	1	0	19.88	19.94	19.92	20.09	20.09	20.03			
16QAM	1	49	19.92	19.93	20.00	20.09	20.12	20.12	21	0	
16QAM	1	99	19.90	19.82	20.01	20.13	20.11	20.11			
16QAM	50	0	19.93	19.89	20.02	19.96	20.03	20.03	21	0	
16QAM	50	24	19.99	20.02	20.09	19.78	19.96	19.96			
16QAM	50	50	19.89	20.05	20.13	19.76	20.00	20.00	21	0	
16QAM	100	0	19.94	20.03	20.07	19.83	20.03	20.03			
64QAM	1	0	19.72	19.74	19.69	20.09	20.09	20.09	21	0	
64QAM	1	49	19.66	19.89	19.86	20.01	20.03	20.03			
64QAM	1	99	19.86	19.60	19.82	20.03	20.03	20.03	20.5	0.5	
64QAM	50	0	19.79	19.88	20.00	19.98	20.00	20.00			
64QAM	50	24	19.91	19.99	20.09	19.77	19.89	19.89			
64QAM	50	50	19.90	19.99	20.05	19.71	20.05	20.05			
64QAM	100	0	19.99	20.10	20.14	19.76	19.99	19.99			
Channel				39725	40173	40620	41068	41515	21	0	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	19.99	20.03	19.63	19.98	20.01	21	0	
15	QPSK	1	37	19.81	19.73	19.79	20.01	20.01			
15	QPSK	1	74	19.67	19.89	19.96	19.99	19.98	21	0	
15	QPSK	36	0	19.77	19.82	19.83	20.02	19.98			
15	QPSK	36	20	19.79	19.83	19.88	19.98	20.08	21	0	
15	QPSK	36	39	19.84	19.86	19.91	19.98	20.03			
15	QPSK	75	0	19.79	19.83	19.96	19.98	19.98	21	0	
15	16QAM	1	0	19.86	19.85	20.01	20.02	20.01			
15	16QAM	1	37	20.03	19.72	19.99	20.01	20.00	21	0	
15	16QAM	1	74	19.86	19.95	20.09	20.09	19.93			
15	16QAM	36	0	19.69	19.83	19.82	19.59	19.79	21	0	
15	16QAM	36	20	19.88	19.82	19.92	19.64	19.74			
15	16QAM	36	39	19.81	19.83	19.83	19.59	19.69	20.5	0.5	
15	16QAM	75	0	19.81	19.92	20.01	19.86	19.87			
15	64QAM	1	0	19.88	19.98	19.96	20.01	19.93	21	0	
15	64QAM	1	37	19.87	19.62	19.55	19.99	19.92			
15	64QAM	1	74	19.84	19.54	19.64	19.93	19.91	20.5	0.5	
15	64QAM	36	0	19.83	19.87	19.84	19.64	19.81			
15	64QAM	36	20	19.78	19.97	19.89	19.61	19.82	21	0	
15	64QAM	36	39	19.83	19.86	19.98	19.73	19.89			
15	64QAM	75	0	19.84	19.93	19.94	19.63	19.81			
Channel				39700	40160	40620	41080	41540	21	0	
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	19.85	19.81	19.87	19.91	19.99	21	0	
10	QPSK	1	25	19.70	19.72	19.78	19.98	20.03			
10	QPSK	1	49	19.68	19.70	19.77	19.99	20.10	21	0	
10	QPSK	25	0	19.74	19.78	19.86	19.67	19.96			
10	QPSK	25	12	19.84	20.18	19.96	20.12	19.89	21	0	
10	QPSK	25	25	19.87	19.86	19.95	20.03	20.03			
10	QPSK	50	0	19.85	19.87	19.96	19.73	19.96	21	0	
10	16QAM	1	0	19.87	19.91	19.86	19.83	19.98			
10	16QAM	1	25	19.94	19.93	20.01	19.74	20.13	21	0	
10	16QAM	1	49	19.92	19.78	19.88	20.10	20.09			
10	16QAM	25	0	19.81	19.77	19.90	19.99	20.01	21	0	
10	16QAM	25	12	19.90	19.95	19.94	19.89	19.99			
10	16QAM	25	25	19.86	19.77	19.95	20.01	19.93	21	0	
10	16QAM	50	0	19.87	19.97	20.00	20.03	20.01			
10	64QAM	1	0	19.74	19.90	19.70	19.98	19.93	21	0	
10	64QAM	1	25	19.88	19.95	19.98	19.91	20.03			
10	64QAM	1	49	19.81	19.97	19.81	19.92	20.01	20.5	0.5	
10	64QAM	25	0	19.87	19.83	19.88	19.99	19.98			
10	64QAM	25	12	19.89	19.87	20.02	19.98	20.03			
10	64QAM	25	25	19.91	19.79	19.96	20.03	20.01	21	0	
10	64QAM	50	0	19.79	19.96	19.97	19.89	19.93			
Channel				39675	40148	40620	41093	41565	21	0	
Frequency (MHz)				2498.5	2543.8	2593	2640.30	2687.5			
5	QPSK	1	0	19.89	19.74	19.93	19.88	20.03	21	0	
5	QPSK	1	12	19.99	19.85	19.83	19.90	20.12			
5	QPSK	1	24	19.98	19.85	20.01	19.99	19.98	21	0	
5	QPSK	12	0	19.71	19.86	19.95	19.74	20.03			
5	QPSK	12	7	19.84	19.89	20.05	19.88	20.00	21	0	
5	QPSK	12	13	19.92	19.92	19.96	19.72	20.09			
5	QPSK	25	0	19.88	19.89	20.07	19.81	20.07	21	0	
5	16QAM	1	0	19.91	20.00	20.08	20.03	20.09			
5	16QAM	1	12	19.64	19.65	19.94	19.89	20.01	21	0	
5	16QAM	1	24	19.93	20.09	20.06	19.89	20.03			
5	16QAM	12	0	19.84	19.78	19.92	19.78	19.98	21	0	
5	16QAM	12	7	19.87	19.98	19.96	19.91	19.99			
5	16QAM	12	13	19.79	19.92	20.00	19.99	19.89	21	0	
5	16QAM	25	0	19.83	19.91	20.04	20.01	20.01			
5	64QAM	1	0	19.61	19.70	19.76	19.88	20.11	21	0	
5	64QAM	1	12	19.65	19.73	19.69	19.92	20.03			
5	64QAM	1	24	19.92	19.74	19.79	19.93	20.03	20.5	0.5	
5	64QAM	12	0	19.83	19.86	19.97	20.02	20.01			
5	64QAM	12	7	19.93	19.95	20.04	20.01	19.99			
5	64QAM	12	13	19.83	19.93	20.09	19.89	19.91			
5	64QAM	25	0	19.91	19.97	20.09	19.99	20.03			

Band 41 (2.6G Band) HPUE (Limit 27) - Receiver on											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	19.89	19.98	19.97	19.71	19.98	21	0	
20	QPSK	1	49	19.88	19.89	19.86	19.66	19.91			
20	QPSK	1	99	19.82	19.78	19.84	19.80	19.98	21	0	
20	QPSK	50	0	19.75	19.89	19.98	19.87	20.13			
20	QPSK	50	24	19.74	19.80	19.83	19.93	20.12	21	0	
20	QPSK	50	50	19.89	19.79	19.83	19.93	20.10			
20	QPSK	100	0	19.99	19.79	19.84	19.95	20.16	21	0	
20	16QAM	1	0	19.86	19.84	19.96	20.03	20.09			
20	16QAM	1	49	19.84	19.85	19.97	19.99	20.28	21	0	
20	16QAM	1	99	19.88	19.85	20.04	20.13	20.34			
20	16QAM	50	0	19.72	19.78	19.81	19.99	20.10	21	0	
20	16QAM	50	24	19.80	19.86	19.90	19.88	20.09			
20	16QAM	50	50	19.79	19.84	19.90	19.97	20.03	21	0	
20	16QAM	100	0	19.80	19.84	19.92	19.98	20.20			
20	64QAM	1	0	19.78	19.82	19.82	19.93	20.01	21	0	
20	64QAM	1	49	19.91	19.70	19.82	19.96	20.03			
20	64QAM	1	99	19.90	19.70	19.88	19.97	19.99	21	0	
20	64QAM	50	0	19.64	19.66	19.75	19.81	19.98			
20	64QAM	50	24	19.72	19.78	19.84	19.89	19.91	21	0	
20	64QAM	50	50	19.70	19.78	19.83	19.92	20.01			
20	64QAM	100	0	19.82	19.86	19.91	20.00	20.22	Tune-up limit (dbm)	MPR (db)	
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	19.60	19.67	19.74	19.83	20.03	21	0	
15	QPSK	1	37	19.63	19.66	19.72	19.78	20.01			
15	QPSK	1	74	19.57	19.79	19.83	19.99	20.03	21	0	
15	QPSK	38	0	19.76	19.80	19.84	19.94	20.04			
15	QPSK	38	20	19.79	19.86	19.91	20.05	20.03	21	0	
15	QPSK	38	39	19.80	19.86	19.94	20.08	20.03			
15	QPSK	75	0	19.82	19.86	19.97	20.04	20.03	21	0	
15	16QAM	1	0	19.97	19.97	20.04	20.11	20.01			
15	16QAM	1	37	19.95	19.94	20.00	20.16	19.98	21	0	
15	16QAM	1	74	19.97	20.06	20.10	20.19	20.09			
15	16QAM	38	0	19.76	19.80	19.85	19.97	20.01	21	0	
15	16QAM	38	20	19.82	19.86	19.92	20.04	19.98			
15	16QAM	38	39	19.82	19.86	19.94	20.06	20.01	21	0	
15	16QAM	75	0	19.90	19.90	19.98	20.07	20.27			
15	16QAM	1	0	19.88	19.88	19.95	20.04	20.03	21	0	
15	64QAM	1	37	19.82	19.79	19.85	20.01	20.01			
15	64QAM	1	74	20.01	19.91	20.00	20.20	20.03	21	0	
15	64QAM	38	0	19.77	19.82	19.86	19.98	19.99			
15	64QAM	38	20	19.83	19.87	19.97	20.06	19.93	21	0	
15	64QAM	38	39	19.86	19.88	19.97	20.09	19.93			
15	64QAM	75	0	19.87	19.91	19.98	20.10	20.31	Tune-up limit (dbm)	MPR (db)	
Channel				39750	40160	40620	41060	41450			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	19.77	19.68	19.77	19.83	19.96	21	0	
10	QPSK	1	25	19.73	19.74	19.79	19.91	19.92			
10	QPSK	1	49	19.68	19.75	19.79	19.90	19.93	21	0	
10	QPSK	25	0	19.87	19.84	19.90	20.03	20.03			
10	QPSK	25	12	19.95	19.96	20.06	20.10	20.01	21	0	
10	QPSK	25	25	19.85	19.92	20.01	20.12	20.03			
10	QPSK	50	0	19.89	19.93	19.99	20.08	20.31	21	0	
10	16QAM	1	0	20.09	20.08	20.15	19.98	19.98			
10	16QAM	1	25	20.08	20.11	20.16	19.99	19.99	21	0	
10	16QAM	1	49	20.02	20.13	20.13	19.93	20.03			
10	16QAM	25	0	19.93	19.86	19.91	20.01	20.01	21	0	
10	16QAM	25	12	19.97	20.00	20.07	20.15	19.91			
10	16QAM	25	25	19.90	19.94	20.01	20.11	20.03	21	0	
10	16QAM	50	0	19.84	19.96	20.04	20.13	20.03			
10	64QAM	1	0	20.17	20.16	20.19	20.25	19.99	21	0	
10	64QAM	1	25	20.08	20.17	20.09	20.32	20.03			
10	64QAM	1	49	20.22	20.08	20.19	20.24	20.03	21	0	
10	64QAM	25	0	19.92	19.85	19.89	19.97	20.30			
10	64QAM	25	12	19.93	19.95	20.04	20.11	20.34	21	0	
10	64QAM	25	25	19.92	19.92	20.02	20.11	20.01			
10	64QAM	50	0	19.87	19.92	20.00	20.11	19.99	Tuneup limit (dbm)	MPR (db)	
Channel				39675	40148	40620	41093	41565			
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5			
5	QPSK	1	0	19.76	19.66	19.73	19.88	20.08	21	0	
5	QPSK	1	12	19.71	19.69	19.79	19.93	20.05			
5	QPSK	1	24	19.72	19.72	19.80	19.91	20.04	21	0	
5	QPSK	12	0	19.91	19.94	19.92	20.04	20.27			
5	QPSK	12	7	19.92	19.97	20.02	20.13	20.28	21	0	
5	QPSK	12	13	19.84	19.91	20.00	20.14	20.26			
5	QPSK	25	0	19.84	19.89	19.99	20.12	20.23	21	0	
5	16QAM	1	0	20.08	20.06	20.13	20.23	20.09			
5	16QAM	1	12	20.00	20.07	20.20	20.27	20.03	21	0	
5	16QAM	1	24	20.05	20.14	20.18	20.32	20.01			
5	16QAM	12	0	19.93	19.95	19.96	20.10	20.27	21	0	
5	16QAM	12	7	19.96	19.98	20.06	20.18	20.32			
5	16QAM	12	13	19.91	19.95	20.04	20.19	20.26	21	0	
5	16QAM	25	0	19.94	19.96	20.02	20.18	20.31			
5	64QAM	1	0	20.01	19.92	20.01	20.09	20.34	21	0	
5	64QAM	1	12	19.93	20.03	20.07	20.17	20.34			
5	64QAM	1	24	19.98	19.99	20.06	20.23	20.34	21	0	
5	64QAM	12	0	19.89	19.94	19.92	20.05	20.03			
5	64QAM	12	7	19.93	19.96	20.02	20.19	20.01	21	0	
5	64QAM	12	13	19.89	19.92	19.98	20.13	20.22			
5	64QAM	25	0	19.90	19.90	19.98	20.09	20.40			