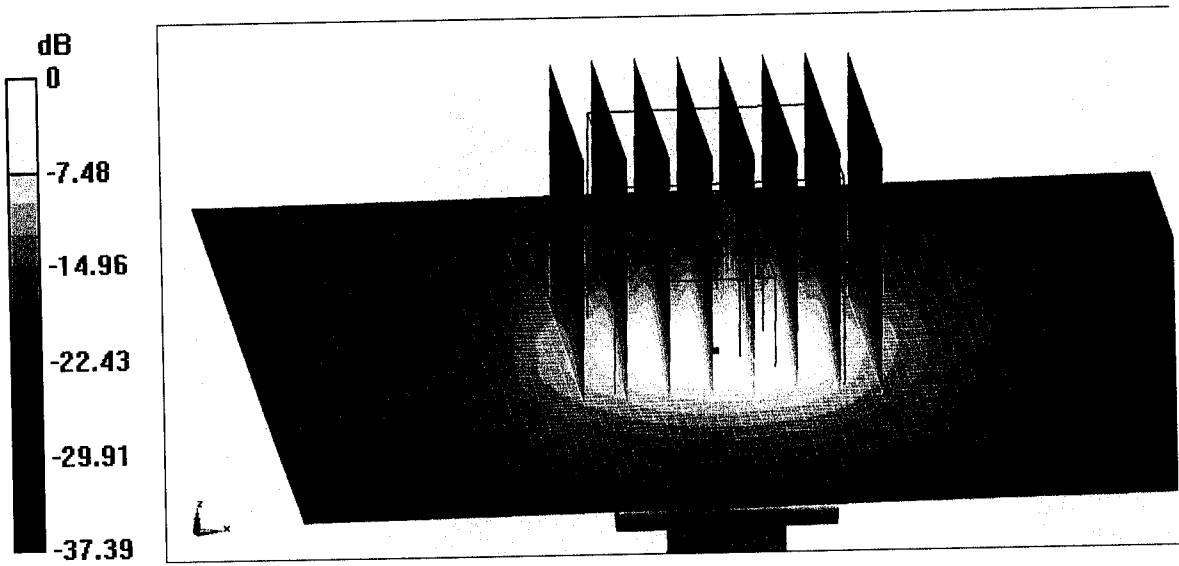




Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com http://www.chinattl.cn



0 dB = 18.0 W/kg = 12.55 dBW/kg

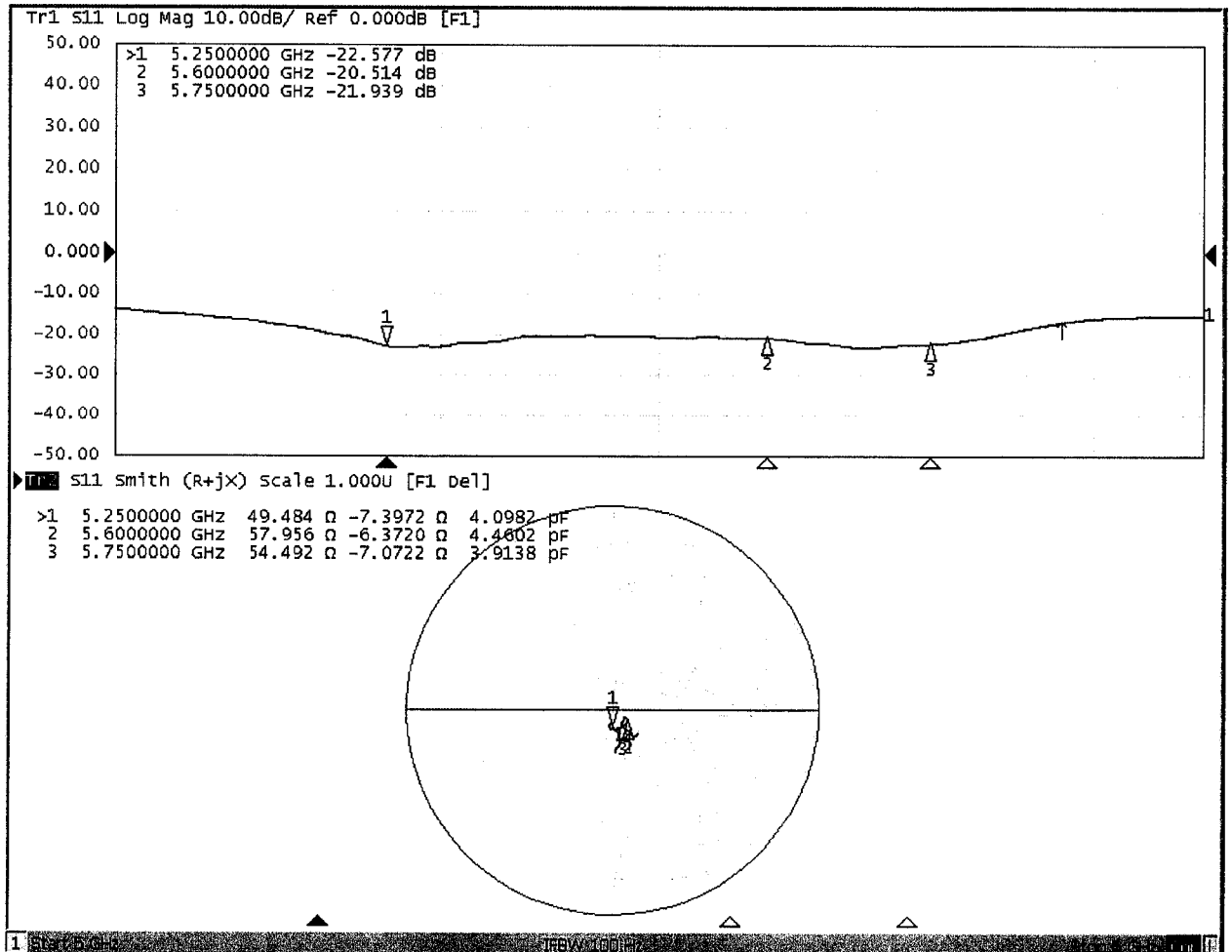


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Impedance Measurement Plot for Body TSL

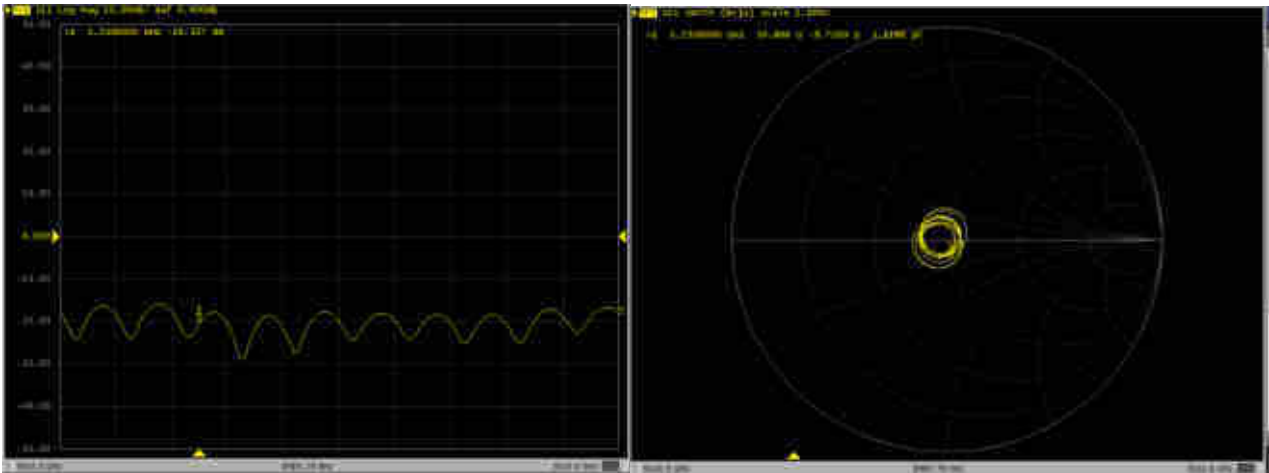


<Justification of the extended calibration>

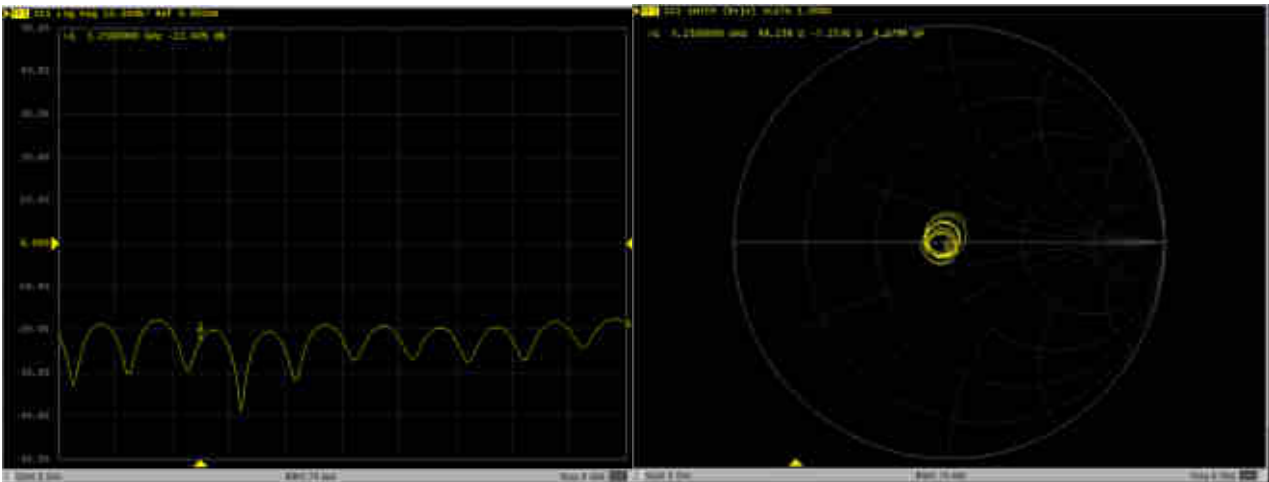
The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

Dipole Verification Data> D5GHzV3, serial no. 1167

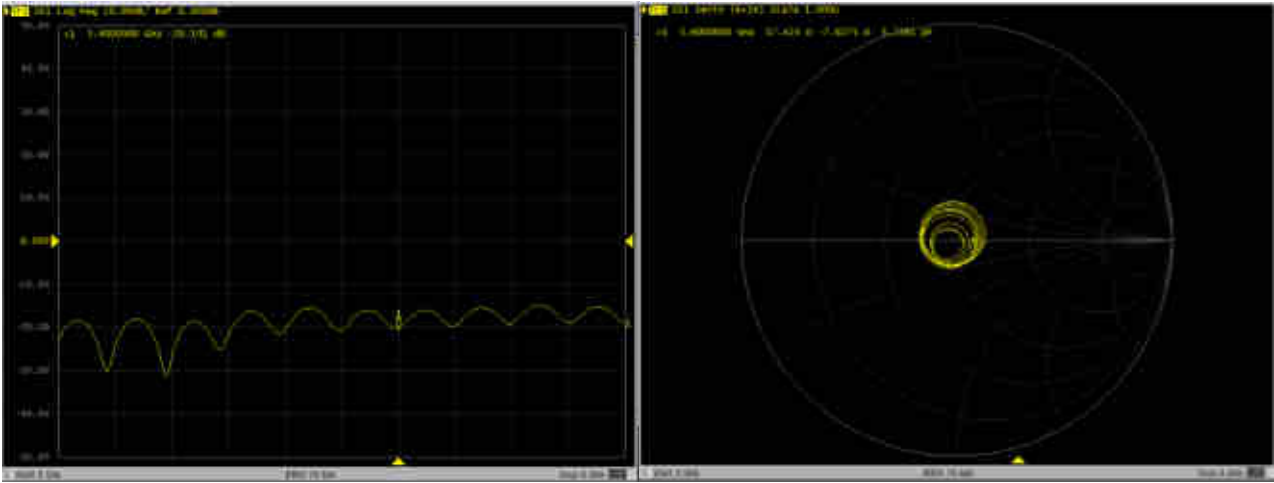
5250MHz - Head



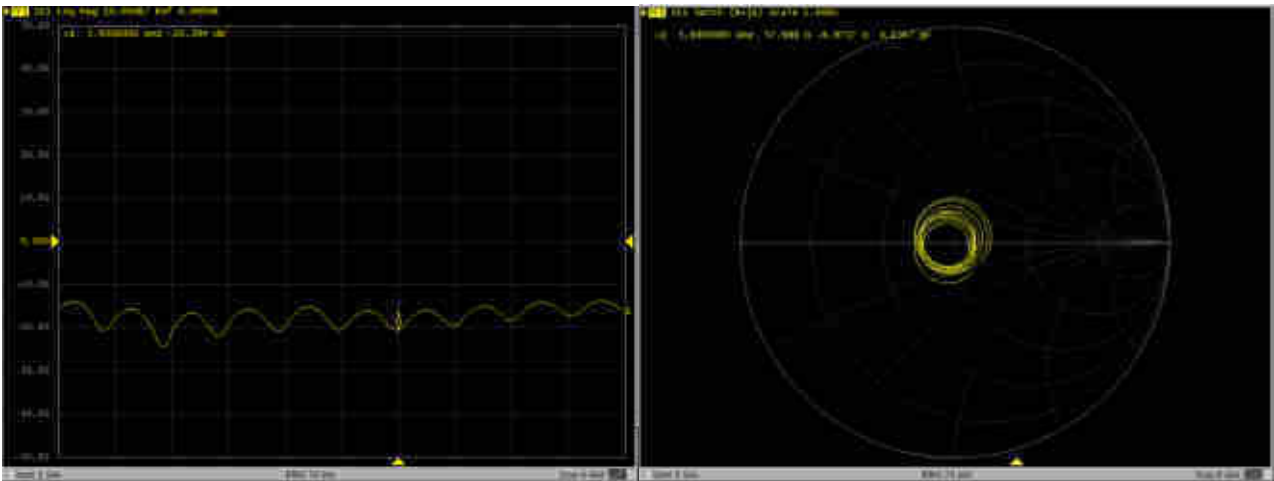
5250MHz - Body



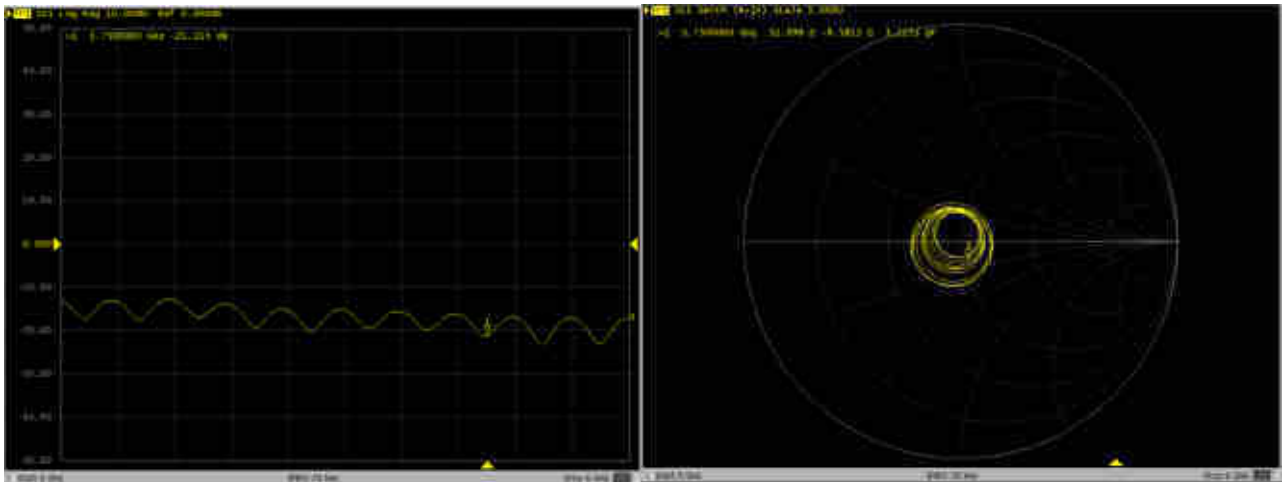
5600MHz – Head



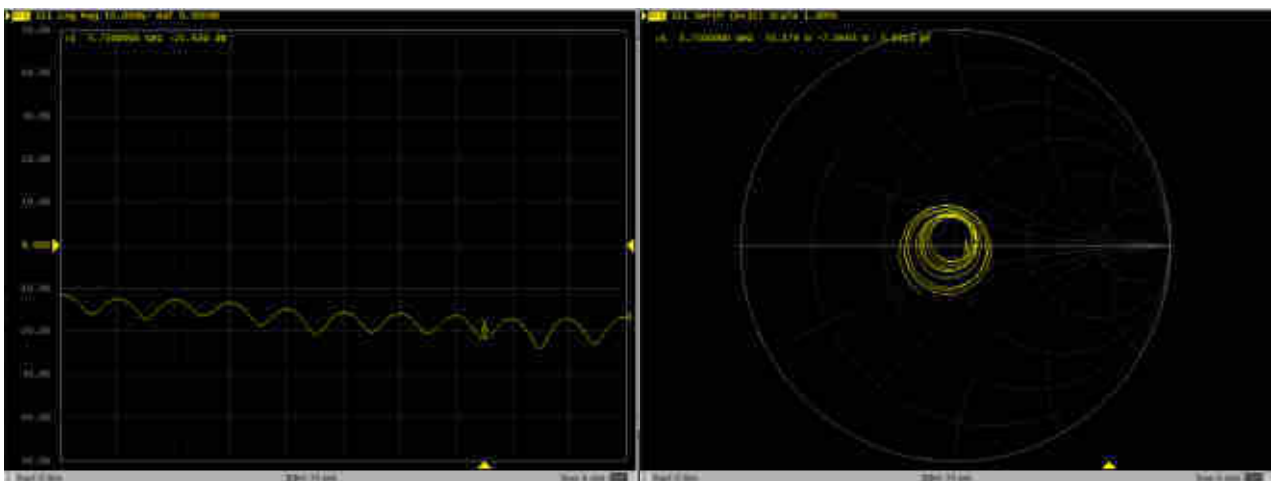
5600MHz – Body



5750MHz – Head



5750MHz – Body





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Accreditation No.: **SCS 0108**

Client **Auden**

Certificate No: **DAE4-1356_May20**

CALIBRATION CERTIFICATE

Object **DAE4 - SD 000 D04 BJ - SN: 1356**

Calibration procedure(s) **QA CAL-06.v30
Calibration procedure for the data acquisition electronics (DAE)**

Calibration date: **May 19, 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
Keithley Multimeter Type 2001	SN: 0810278	03-Sep-19 (No:25949)	Sep-20
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	09-Jan-20 (in house check)	In house check; Jan-21
Calibrator Box V2.1	SE UMS 006 AA 1002	09-Jan-20 (in house check)	In house check; Jan-21

	Name	Function	Signature
Calibrated by:	Dominique Steffen	Laboratory Technician	
Approved by:	Sven Kühn	Deputy Manager	

Issued: May 20, 2020

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Accreditation No.: **SCS 0108**

Glossary

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

Methods Applied and Interpretation of Parameters

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

DC Voltage Measurement

A/D - Converter Resolution nominal

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

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

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

Calibration Factors	X	Y	Z
High Range	404.180 \pm 0.02% (k=2)	403.982 \pm 0.02% (k=2)	404.201 \pm 0.02% (k=2)
Low Range	3.97702 \pm 1.50% (k=2)	3.96329 \pm 1.50% (k=2)	3.97892 \pm 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	268.5 $^{\circ}$ \pm 1 $^{\circ}$
---	-------------------------------------

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	200036.91	4.93	0.00
Channel X	+ Input	20003.33	-2.05	-0.01
Channel X	- Input	-20003.72	1.76	-0.01
Channel Y	+ Input	200031.46	-0.39	-0.00
Channel Y	+ Input	20003.32	-1.93	-0.01
Channel Y	- Input	-20005.93	-0.40	0.00
Channel Z	+ Input	200028.99	-3.17	-0.00
Channel Z	+ Input	20001.58	-3.59	-0.02
Channel Z	- Input	-20007.24	-1.55	0.01

Low Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	2001.23	0.11	0.01
Channel X	+ Input	201.14	-0.00	-0.00
Channel X	- Input	-199.01	-0.14	0.07
Channel Y	+ Input	2000.67	-0.35	-0.02
Channel Y	+ Input	199.89	-1.12	-0.56
Channel Y	- Input	-198.23	0.78	-0.39
Channel Z	+ Input	2000.97	-0.10	-0.01
Channel Z	+ Input	200.56	-0.38	-0.19
Channel Z	- Input	-199.65	-0.57	0.29

2. Common mode sensitivity

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

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-7.39	-9.12
	- 200	10.05	8.28
Channel Y	200	-10.37	-10.55
	- 200	8.09	8.04
Channel Z	200	-16.40	-15.83
	- 200	14.16	14.37

3. Channel separation

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

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	2.10	-3.79
Channel Y	200	7.59	-	3.07
Channel Z	200	9.79	5.97	-

4. AD-Converter Values with inputs shorted

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

	High Range (LSB)	Low Range (LSB)
Channel X	16325	15231
Channel Y	16143	12708
Channel Z	15880	15875

5. Input Offset Measurement

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

Input 10M Ω

	Average (μ V)	min. Offset (μ V)	max. Offset (μ V)	Std. Deviation (μ V)
Channel X	0.69	-0.54	1.75	0.38
Channel Y	-0.88	-2.99	1.75	0.75
Channel Z	-0.46	-1.79	0.32	0.37

6. Input Offset Current

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

7. Input Resistance (Typical values for information)

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

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

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

9. Power Consumption (Typical values for information)

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



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Client **Sporton**

Certificate No: **EX3-7577_Feb20**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7577**

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: **February 3, 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 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	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: 600	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: G641293874	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

Calibrated by:	Name Michael Weber	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Function Technical Manager	Signature
			Issued: February 6, 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:

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

Methods Applied and Interpretation of Parameters:

- **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:7577

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V/m})^2$) ^A	0.56	0.63	0.60	$\pm 10.1\%$
DCP (mV) ^B	102.3	100.9	103.2	

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	157.9	$\pm 3.5\%$	$\pm 4.7\%$
		Y	0.00	0.00	1.00		158.6		
		Z	0.00	0.00	1.00		159.2		
10352- AAA	Pulse Waveform (200Hz, 10%)	X	15.00	85.65	17.85	10.00	60.0	$\pm 3.3\%$	$\pm 9.6\%$
		Y	15.00	86.11	18.19		60.0		
		Z	15.00	86.79	18.62		60.0		
10353- AAA	Pulse Waveform (200Hz, 20%)	X	15.00	87.65	17.70	6.99	80.0	$\pm 2.1\%$	$\pm 9.6\%$
		Y	15.00	88.77	18.19		80.0		
		Z	15.00	89.85	19.02		80.0		
10354- AAA	Pulse Waveform (200Hz, 40%)	X	15.00	92.45	18.72	3.98	95.0	$\pm 1.0\%$	$\pm 9.6\%$
		Y	15.00	91.79	18.08		95.0		
		Z	15.00	96.85	21.09		95.0		
10355- AAA	Pulse Waveform (200Hz, 60%)	X	15.00	100.46	21.24	2.22	120.0	$\pm 1.1\%$	$\pm 9.6\%$
		Y	15.00	90.85	16.23		120.0		
		Z	15.00	108.65	25.24		120.0		
10387- AAA	QPSK Waveform, 1 MHz	X	0.61	61.31	8.06	0.00	150.0	$\pm 2.6\%$	$\pm 9.6\%$
		Y	0.51	60.00	6.74		150.0		
		Z	0.62	61.67	8.27		150.0		
10388- AAA	QPSK Waveform, 10 MHz	X	2.33	69.51	16.61	0.00	150.0	$\pm 1.2\%$	$\pm 9.6\%$
		Y	1.96	66.54	14.94		150.0		
		Z	2.39	70.09	16.90		150.0		
10396- AAA	64-QAM Waveform, 100 kHz	X	2.79	70.78	19.07	3.01	150.0	$\pm 1.1\%$	$\pm 9.6\%$
		Y	2.31	66.70	17.09		150.0		
		Z	2.98	71.91	19.51		150.0		
10399- AAA	64-QAM Waveform, 40 MHz	X	3.45	67.23	15.93	0.00	150.0	$\pm 2.0\%$	$\pm 9.6\%$
		Y	3.32	66.40	15.38		150.0		
		Z	3.47	67.48	16.06		150.0		
10414- AAA	WLAN CCDF, 64-QAM, 40MHz	X	4.71	65.62	15.58	0.00	150.0	$\pm 3.7\%$	$\pm 9.6\%$
		Y	4.64	65.21	15.32		150.0		
		Z	4.72	65.75	15.64		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:7577

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	37.3	275.86	35.01	9.44	0.00	5.05	1.02	0.18	1.01
Y	37.2	282.80	36.55	7.00	0.00	5.08	0.00	0.37	1.01
Z	37.3	273.69	34.51	9.73	0.00	5.07	1.16	0.19	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	127.8
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:7577

Calibration Parameter Determined in Head Tissue Simulating Media

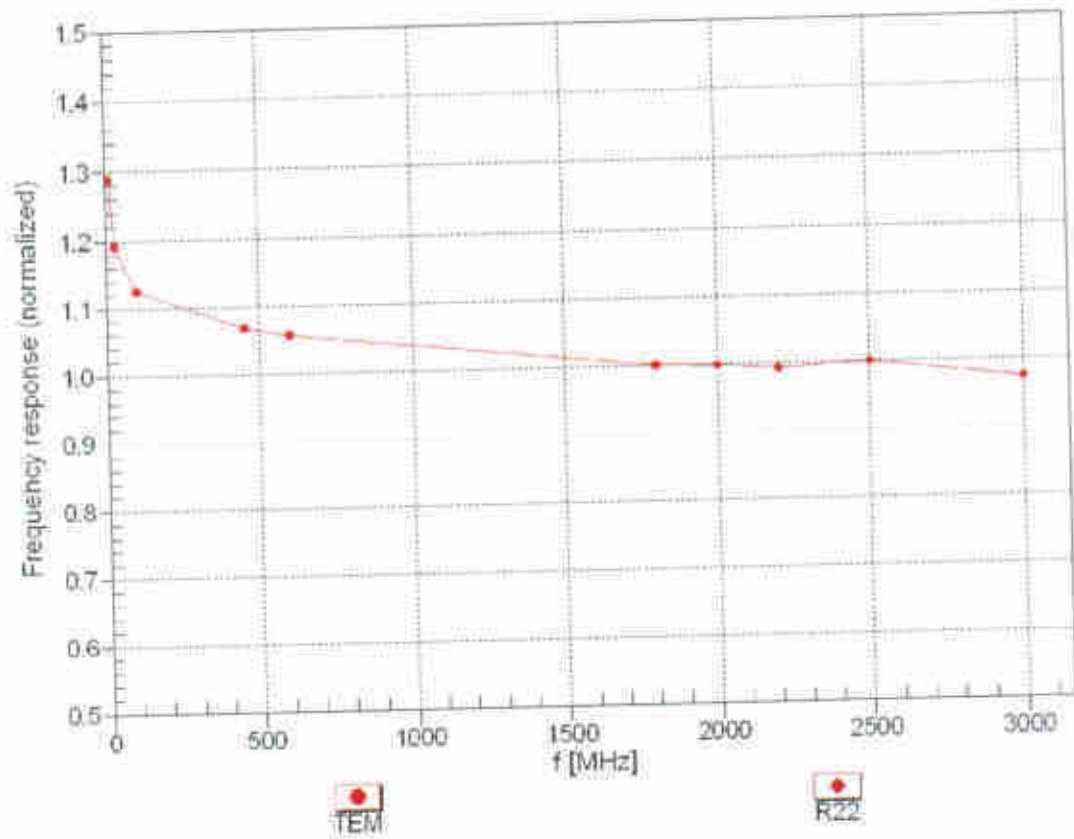
f (MHz) ^c	Relative Permittivity ^f	Conductivity (S/m) ^f	ConvF X	ConvF Y	ConvF Z	Alpha ^g	Depth (mm) ^g	Unc (k=2)
750	41.9	0.89	10.10	10.10	10.10	0.67	0.80	± 12.0 %
835	41.5	0.90	9.69	9.69	9.69	0.59	0.83	± 12.0 %
900	41.5	0.97	9.40	9.40	9.40	0.56	0.80	± 12.0 %
1750	40.1	1.37	8.62	8.62	8.62	0.40	0.86	± 12.0 %
1900	40.0	1.40	8.34	8.34	8.34	0.28	0.86	± 12.0 %
2000	40.0	1.40	8.24	8.24	8.24	0.37	0.86	± 12.0 %
2300	39.5	1.87	7.99	7.99	7.99	0.27	0.86	± 12.0 %
2450	39.2	1.80	7.80	7.80	7.80	0.39	0.90	± 12.0 %
2600	39.0	1.96	7.51	7.51	7.51	0.40	0.90	± 12.0 %
3300	38.2	2.71	7.11	7.11	7.11	0.30	1.35	± 14.0 %
3500	37.9	2.91	6.83	6.83	6.83	0.30	1.35	± 14.0 %
3700	37.7	3.12	6.45	6.45	6.45	0.30	1.35	± 14.0 %
3900	37.5	3.32	6.20	6.20	6.20	0.35	1.60	± 14.0 %
4100	37.2	3.53	6.00	6.00	6.00	0.35	1.60	± 14.0 %
5250	35.9	4.71	5.14	5.14	5.14	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.56	4.56	4.56	0.40	1.80	± 14.0 %
5750	35.4	5.22	4.78	4.78	4.78	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)

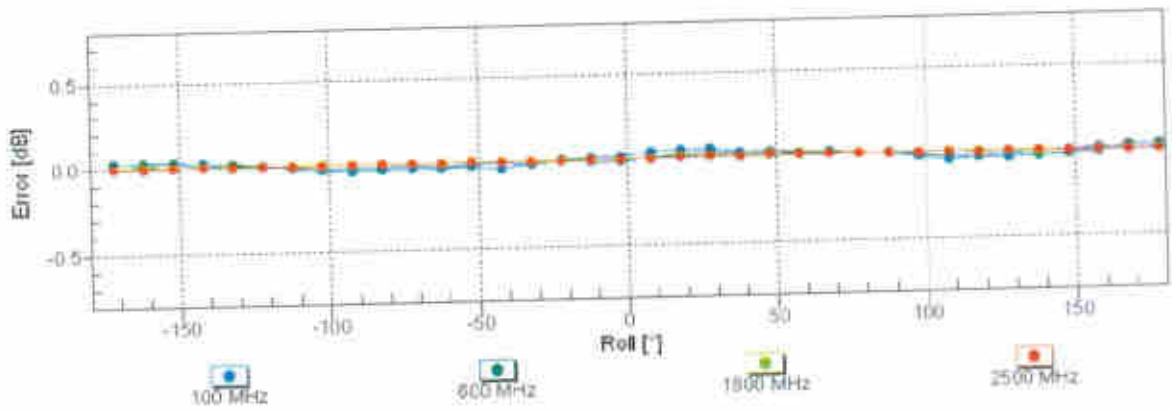
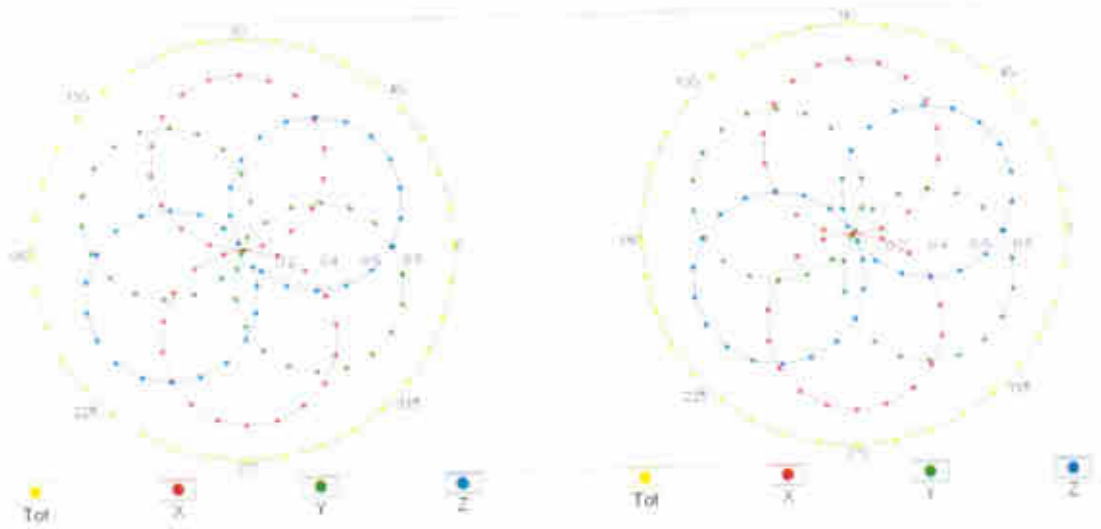


Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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

f=600 MHz,TEM

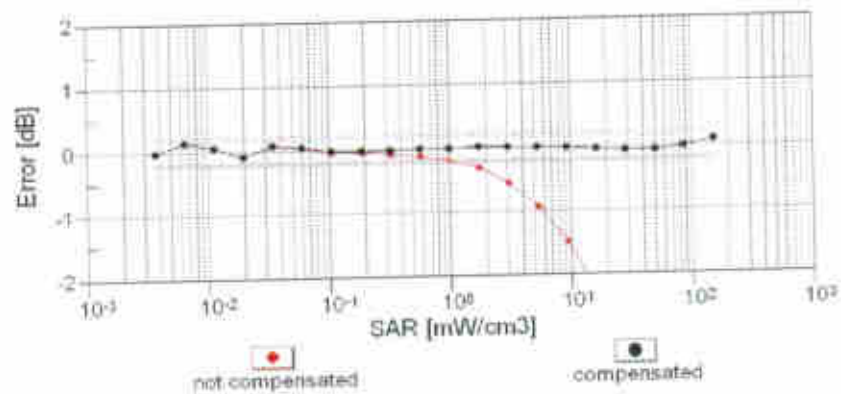
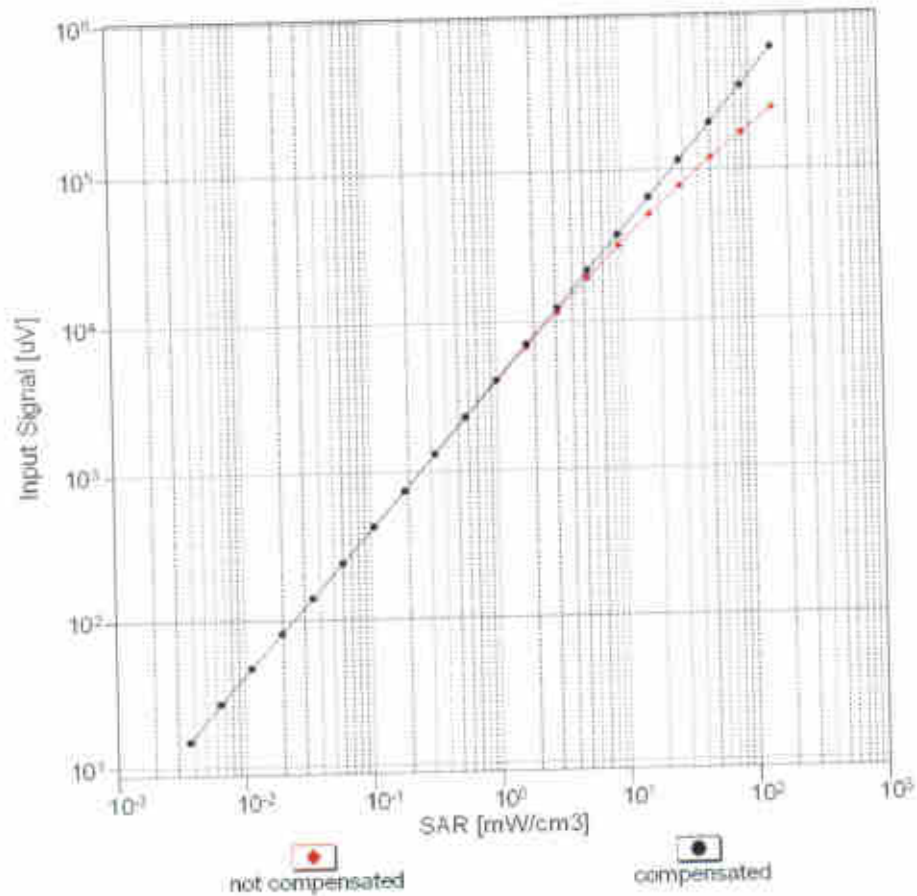
f=1800 MHz,R22



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

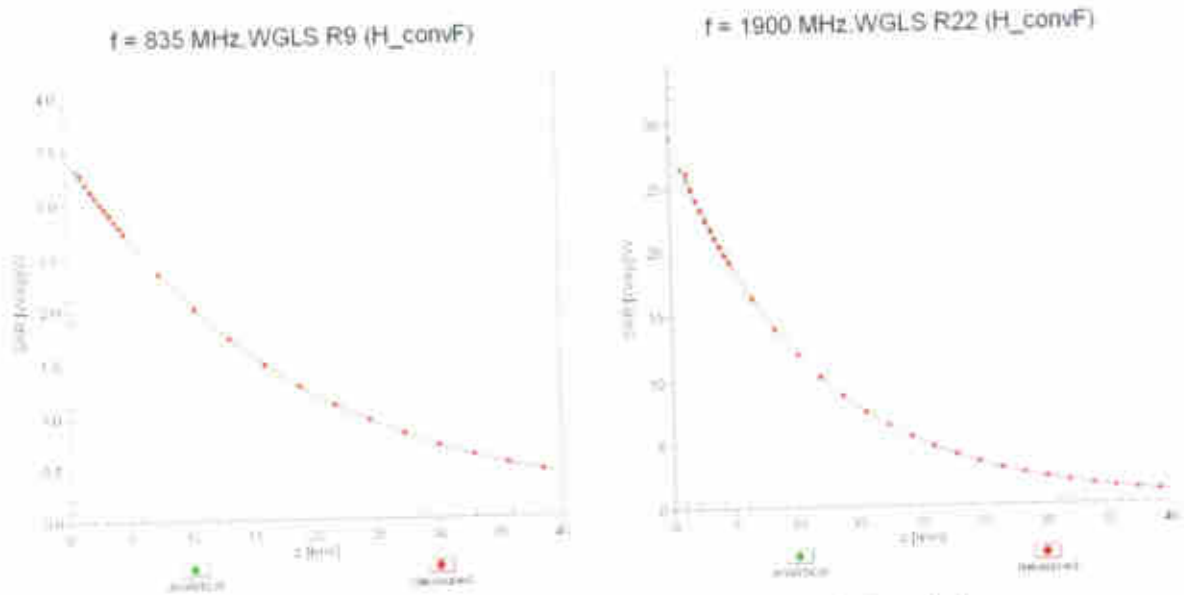
Dynamic Range f(SAR_{head})

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

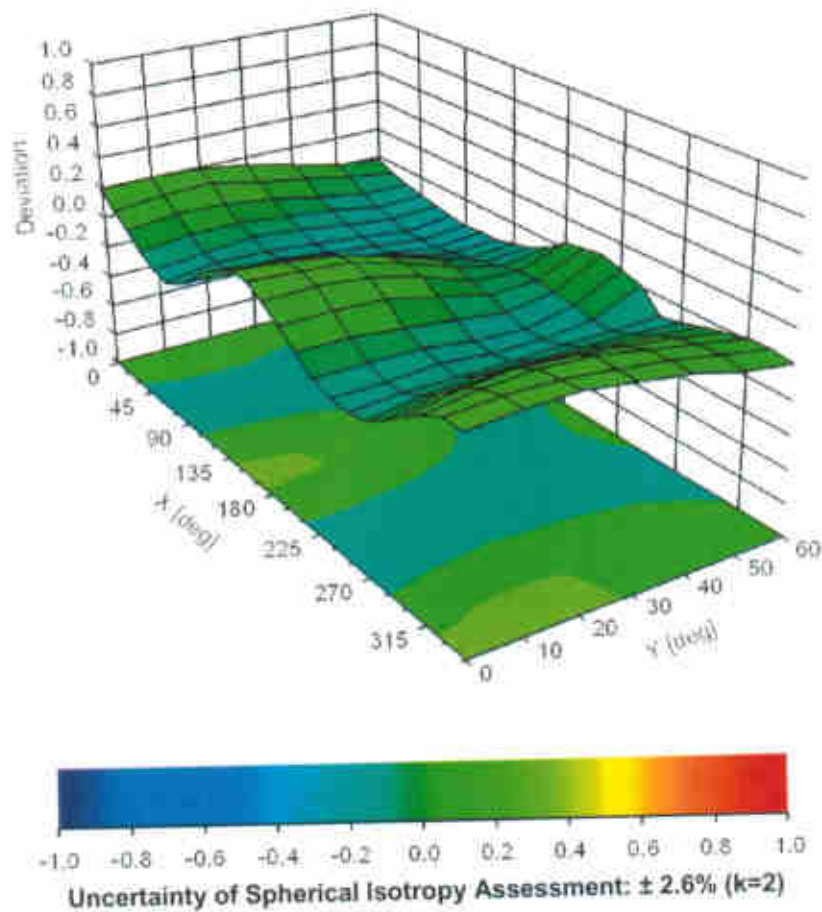


Uncertainty of Linearity Assessment: $\pm 0.6\%$ (k=2)

Conversion Factor Assessment



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



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^R (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-QPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-QPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-QPSK, 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-QPSK, 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-QPSK, 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, 99pc duty cycle)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 99pc 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, SO32, 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/b 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	8.62	±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, MCS8, 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	1.96	±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	AA0	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	8.73	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)	WLAN	8.86	± 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	7.68	± 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	5.88	± 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 %

⁴ 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.



Receive on for Head_UAT

GSM900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	834.2	836.4	848.8	834.2	836.4	848.8		
Frequency (MHz)	29.79	29.77	29.63	30.20	29.79	20.77	20.63	21.20
GSM 1 Tx slot	29.76	29.74	29.60	30.20	20.76	20.74	20.60	21.20
GPRS 2 Tx slots	27.53	27.57	27.52	28.00	21.73	21.57	21.52	22.00
GPRS 3 Tx slots	25.72	25.57	25.46	26.00	21.46	21.31	21.20	21.74
GPRS 4 Tx slots	24.63	24.47	24.33	25.00	21.63	21.47	21.33	22.00
EDGE 1 Tx slot	24.16	24.35	24.21	25.00	15.16	15.35	15.21	16.00
EDGE 2 Tx slots	22.99	23.13	23.03	24.00	16.99	17.13	17.03	18.00
EDGE 3 Tx slots	20.72	20.91	20.83	22.00	16.46	16.65	16.37	17.74
EDGE 4 Tx slots	19.48	19.63	19.48	21.00	16.48	16.63	16.48	18.00

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1829.2	1829	1829.8	1829.2	1829	1829.8		
Frequency (MHz)	26.19	26.28	26.23	26.30	17.19	17.28	17.23	17.30
GSM 1 Tx slot	26.16	26.25	26.21	26.30	17.16	17.25	17.21	17.30
GPRS 1 Tx slot	23.81	23.82	23.93	24.00	17.81	17.82	17.93	18.00
GPRS 2 Tx slots	21.73	21.85	21.91	22.00	17.47	17.59	17.65	17.74
GPRS 3 Tx slots	20.71	20.66	20.79	21.00	17.71	17.66	17.76	18.00
EDGE 1 Tx slot	22.95	22.90	22.94	23.00	13.95	13.90	13.94	14.00
EDGE 2 Tx slots	21.84	21.82	21.79	22.00	15.84	15.82	15.79	16.00
EDGE 3 Tx slots	19.69	19.65	19.59	20.00	15.43	15.39	15.33	15.74
EDGE 4 Tx slots	18.39	18.34	18.40	19.00	15.39	15.34	15.40	16.00

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9692	9600	9938	1537	1638	1738	4367	4407	4458				
Rx Channel	9692	9600	9938	1537	1638	1738	4367	4407	4458				
Frequency (MHz)	1829.2	1829	1829.8	1829.2	1829	1829.8	1829.2	1829	1829.8				
3GPP Rel 99	AMR 12.2kbps	18.50	18.67	18.69	19.00	19.11	19.03	19.10	20.00	22.95	23.11	23.16	24.00
3GPP Rel 99	RMC 12.2kbps	18.56	18.69	18.72	19.00	19.15	18.94	19.21	20.00	23.10	23.14	23.20	24.00
3GPP Rel 6	HSDPA Subtest-1	17.60	17.73	17.77	18.00	18.06	18.16	18.16	19.00	22.17	22.20	22.31	23.00
3GPP Rel 6	HSDPA Subtest-2	17.53	17.57	17.62	18.00	17.99	18.15	18.20	19.00	22.14	22.13	22.16	23.00
3GPP Rel 6	HSDPA Subtest-3	18.97	18.97	17.07	17.50	17.84	17.81	17.71	18.50	21.88	21.83	21.85	22.50
3GPP Rel 6	HSDPA Subtest-4	16.99	16.94	17.00	17.50	17.66	17.61	17.73	18.50	21.63	21.68	21.65	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	17.30	17.51	17.59	18.00	18.03	18.02	17.93	19.00	22.04	22.03	22.12	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	17.21	17.23	17.47	18.00	17.87	17.92	18.09	19.00	21.93	21.89	22.00	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	16.56	16.79	16.93	17.50	17.27	17.40	17.70	18.50	21.40	21.47	21.52	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	16.87	16.79	16.84	17.50	17.46	17.32	17.37	18.50	21.40	21.49	21.38	22.50
3GPP Rel 6	HSUPA Subtest-1	15.56	15.63	15.84	17.00	16.18	16.28	16.23	18.00	20.20	20.25	20.27	21.00
3GPP Rel 6	HSUPA Subtest-2	15.59	15.78	15.71	16.00	16.10	16.06	16.27	16.50	20.20	20.23	20.21	21.00
3GPP Rel 6	HSUPA Subtest-3	16.56	16.65	16.73	17.00	17.16	17.25	17.28	17.50	21.14	21.21	21.23	22.00
3GPP Rel 6	HSUPA Subtest-4	15.07	15.20	15.35	16.00	15.69	15.70	15.73	16.50	19.83	19.74	19.78	21.00
3GPP Rel 6	HSUPA Subtest-5	16.48	16.48	16.66	18.00	17.03	17.24	17.14	18.50	21.20	21.10	21.20	23.00



Band 2 (1900MHz Band)										
Part 24E										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power High Ch./Freq	Power High Ch./Freq	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				18700	18800	19100				
20	QPSK	1	0	18.16	18.17	18.18				
20	QPSK	1	49	18.16	18.16	18.19	19	0		
20	QPSK	1	99	17.97	17.98	18.14				
20	QPSK	50	0	17.18	17.19	17.2				
20	QPSK	50	24	17.16	17.22	17.21				
20	QPSK	50	50	17.18	17.17	17.16	18	1		
20	QPSK	100	0	17.24	17.28	17.22				
20	16QAM	1	0	17.35	17.8	17.16				
20	16QAM	1	49	17.56	17.64	17.26	18	1		
20	16QAM	1	99	17.28	17.25	17.24				
20	16QAM	50	0	16.1	16.3	16.43				
20	16QAM	50	24	16.19	16.24	16.3				
20	16QAM	50	50	16.15	16.11	16.24	17	2		
20	16QAM	100	0	16.13	16.12	16.21				
20	64QAM	1	0	16.47	16.4	16.23				
20	64QAM	1	49	16.61	16.2	16.62	17	2		
20	64QAM	1	99	16.32	16.14	16.43				
20	64QAM	50	0	15.17	15.28	15.28				
20	64QAM	50	24	15.49	15.09	15.45				
20	64QAM	50	50	15.18	15.12	15.21	16	3		
20	64QAM	100	0	15.3	15.1	15.25				
Channel										
Frequency (MHz)				18575	18800	19120	Time-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	18.05	18.02	18.23				
15	QPSK	1	37	18.29	18.07	18.14	19	0		
15	QPSK	1	74	18.11	18.07	18.17				
15	QPSK	36	0	17.28	17.24	17.28				
15	QPSK	36	20	17.32	17.28	17.29				
15	QPSK	36	39	17.27	17.19	17.19	18	1		
15	QPSK	75	0	17.14	17.32	17.36				
15	16QAM	1	0	17.28	17.48	17.43				
15	16QAM	1	39	17.65	17.4	17.38	18	1		
15	16QAM	1	74	17.52	17.4	17.59				
15	16QAM	36	0	16.22	16.30	16.34				
15	16QAM	36	20	16.27	16.20	16.49	17	2		
15	16QAM	36	39	16.25	16.19	16.13				
15	16QAM	75	0	16.3	16.14	16.21				
15	64QAM	1	0	16.56	16.31	16.17				
15	64QAM	1	37	16.37	16.48	16.16	17	2		
15	64QAM	1	74	16.44	16.01	16.92				
15	64QAM	36	0	15.21	15.27	15.31				
15	64QAM	36	20	15.21	15.23	15.33				
15	64QAM	36	39	15.32	15.13	15.11	16	3		
15	64QAM	75	0	15.12	15.26	15.18				
Channel										
Frequency (MHz)				18950	18900	19150	Time-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	18.12	18.11	18.16				
10	QPSK	1	25	18.28	18.25	18.29	19	0		
10	QPSK	1	49	18.04	18.14	18.17				
10	QPSK	25	0	17.21	17.41	17.26				
10	QPSK	25	12	17.29	17.34	17.28	18	1		
10	QPSK	25	25	17.35	17.2	17.4				
10	QPSK	50	0	17.22	17.29	17.2				
10	16QAM	1	0	17.21	17.21	17.36				
10	16QAM	1	25	17.53	17.69	17.72	18	1		
10	16QAM	1	49	17.78	17.44	17.14				
10	16QAM	25	0	16.2	16.27	16.35				
10	16QAM	25	12	16.19	16.28	16.31	17	2		
10	16QAM	25	25	16.39	16.3	16.27				
10	16QAM	50	0	16.38	16.24	16.31				
10	64QAM	1	0	16.27	16.22	16.13				
10	64QAM	1	25	16.35	16.32	16.44	17	2		
10	64QAM	1	49	16.16	16.08	16.04				
10	64QAM	25	0	15.29	15.3	15.29				
10	64QAM	25	12	15.29	15.27	15.33				
10	64QAM	25	25	15.39	15.23	15.35	16	3		
10	64QAM	50	0	15.26	15.03	15.24				
Channel										
Frequency (MHz)				18525	18800	19075	Time-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	18.18	18.19	18.08				
5	QPSK	1	12	18.2	18.24	18.26	19	0		
5	QPSK	1	24	18.13	18.11	18.19				
5	QPSK	12	0	17.24	17.32	17.36				
5	QPSK	12	7	17.16	17.14	17.28	18	1		
5	QPSK	12	13	17.21	17.29	17.29				
5	QPSK	25	0	17.15	17.21	17.21				
5	16QAM	1	0	16.97	17.17	17.27				
5	16QAM	1	12	17.44	17.45	17.39	18	1		
5	16QAM	1	24	17.37	17.13	17.84				
5	16QAM	12	0	16.11	16.20	16.47				
5	16QAM	12	7	16.26	16.27	16.35	17	2		
5	16QAM	12	13	16.11	16.1	16.41				
5	16QAM	25	0	16.3	16.21	16.3				
5	64QAM	1	0	16.45	16.04	16.3				
5	64QAM	1	12	16.41	16.11	16.75	17	2		
5	64QAM	1	24	16.57	16.34	16.2				
5	64QAM	12	0	15.13	15.33	15.35				
5	64QAM	12	7	15.35	15.38	15.28				
5	64QAM	12	13	15.3	15.11	15.31	16	3		
5	64QAM	25	0	15.13	15.13	15.33				
Channel										
Frequency (MHz)				18615	18900	19185	Time-up limit (dBm)	MPR (dB)		
3	QPSK	1	0	18.19	18.14	18.16				
3	QPSK	1	8	18.13	18.14	18.16	19	0		
3	QPSK	1	14	18.17	18.22	18.1				
3	QPSK	8	0	17.12	17.1	17.23				
3	QPSK	8	4	17.22	17.29	17.36	18	1		
3	QPSK	8	7	17.2	17.21	17.34				
3	QPSK	15	0	17.2	17.2	17.22				
3	16QAM	1	0	17.1	17.1	17.41				
3	16QAM	1	8	17.58	17.26	17.27	18	1		
3	16QAM	1	14	17.44	17.03	17.32				
3	16QAM	8	0	16.14	16.19	16.42				
3	16QAM	8	4	16.19	16.19	16.4	17	2		
3	16QAM	8	7	16.18	16.23	16.3				
3	16QAM	15	0	16.13	16.03	16.27				
3	64QAM	1	0	16.08	16.09	16.41				
3	64QAM	1	8	16.38	16.29	16.49	17	2		
3	64QAM	1	14	16.34	16.12	16.3				
3	64QAM	8	0	15.2	15.32	15.32				
3	64QAM	8	4	15.09	15.26	15.34	16	3		
3	64QAM	8	7	15.27	15.25	15.22				
3	64QAM	15	0	15.19	15.21	15.25				
Channel										
Frequency (MHz)				18907	18900	19193	Time-up limit (dBm)	MPR (dB)		
1.4	QPSK	1	0	18.18	18.24	18.22				
1.4	QPSK	1	3	18.15	18.17	18.31	19	0		
1.4	QPSK	1	5	18.23	18.03	18.28				
1.4	QPSK	3	0	18.21	18.16	18.28				
1.4	QPSK	3	1	18.04	18.19	18.27				
1.4	QPSK	3	3	18.11	18.29	18.09				
1.4	QPSK	6	0	17.26	17.31	17.24	18	1		
1.4	16QAM	1	0	17.56	17.16	17.50				
1.4	16QAM	1	3	17.58	17.51	17.74				
1.4	16QAM	1	5	17.43	17.35	17.62				
1.4	16QAM	3	0	17.11	17.15	17.42	18	1		
1.4	16QAM	3	1	17.39	17.05	17.21				
1.4	16QAM	3	3	17.52	17.29	17.43				
1.4	16QAM	6	0	16.55	16.43	16.31	17	2		
1.4	64QAM	1	0	16.52	16.03	16.15				
1.4	64QAM	1	3	16.45	16.10	16.34				
1.4	64QAM	1	5	16.53	16.20	16.53	17	2		
1.4	64QAM	3	0	16.40	16.27	16.45			</	



Band 7 (2600MHz Band) 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				2050	2100	2150				
Frequency (MHz)										
20	QPSK	1	0	17.27	17.44	17.29				
20	QPSK	1	49	17.41	17.39	17.62	18	0		
20	QPSK	1	99	17.45	17.27	17.47				
20	QPSK	50	0	16.46	16.44	16.41				
20	QPSK	50	24	16.36	16.41	16.49				
20	QPSK	50	50	16.40	16.47	16.44	17	1		
20	QPSK	100	0	16.35	16.42	16.48				
20	16QAM	1	0	16.55	16.55	16.71				
20	16QAM	1	49	16.46	16.65	16.70	17	1		
20	16QAM	1	99	16.50	16.37	16.73				
20	16QAM	50	0	15.31	15.51	15.45				
20	16QAM	50	24	15.42	15.53	15.64				
20	16QAM	50	50	15.45	15.63	15.46	16	2		
20	16QAM	100	0	15.43	15.53	15.41				
20	64QAM	1	0	15.44	15.67	15.30				
20	64QAM	1	49	15.63	15.72	15.70	16	2		
20	64QAM	1	99	15.67	15.53	15.74				
20	64QAM	50	0	14.36	14.44	14.38				
20	64QAM	50	24	14.41	14.42	14.36				
20	64QAM	50	50	14.23	14.45	14.43	15	3		
20	64QAM	100	0	14.45	14.55	14.42				
Channel				2025	2100	2175				
Frequency (MHz)										
15	QPSK	1	0	17.36	17.32	17.41				
15	QPSK	1	37	17.38	17.55	17.51	18	0		
15	QPSK	1	74	17.38	17.34	17.29				
15	QPSK	36	0	16.49	16.60	16.46				
15	QPSK	36	20	16.43	16.35	16.56	17	1		
15	QPSK	36	39	16.54	16.59	16.53				
15	QPSK	75	0	16.45	16.38	16.45				
15	16QAM	1	0	16.56	16.67	16.70	17	1		
15	16QAM	1	37	16.67	16.64	16.62				
15	16QAM	1	74	16.50	16.60	16.61				
15	16QAM	36	0	15.57	15.44	15.48				
15	16QAM	36	20	15.58	15.31	15.42	16	2		
15	16QAM	36	39	15.49	15.39	15.42				
15	16QAM	75	0	15.45	15.40	15.57				
15	64QAM	1	0	15.34	15.77	15.51				
15	64QAM	1	37	15.69	15.81	15.64	16	2		
15	64QAM	1	74	15.57	15.75	15.47				
15	64QAM	36	0	14.34	14.52	14.45				
15	64QAM	36	20	14.40	14.42	14.35	15	3		
15	64QAM	36	39	14.30	14.45	14.46				
15	64QAM	75	0	14.55	14.41	14.37				
Channel				2080	2100	2140				
Frequency (MHz)										
10	QPSK	1	0	17.35	17.49	17.39				
10	QPSK	1	25	17.44	17.54	17.38	18	0		
10	QPSK	1	49	17.46	17.35	17.36				
10	QPSK	25	0	16.67	16.52	16.48				
10	QPSK	25	12	16.40	16.38	16.57	17	1		
10	QPSK	25	25	16.52	16.63	16.51				
10	QPSK	50	0	16.45	16.66	16.34				
10	16QAM	1	0	16.76	16.67	16.77	17	1		
10	16QAM	1	25	16.69	16.80	16.73				
10	16QAM	1	49	16.75	16.69	16.36				
10	16QAM	25	0	15.48	15.66	15.35				
10	16QAM	25	12	15.55	15.94	15.52	16	2		
10	16QAM	25	25	15.55	15.58	15.61				
10	16QAM	50	0	15.55	15.52	15.50				
10	64QAM	1	0	15.65	15.80	15.38				
10	64QAM	1	25	15.49	15.65	15.80	16	2		
10	64QAM	1	49	15.46	15.65	15.67				
10	64QAM	25	0	14.50	14.60	14.43				
10	64QAM	25	12	14.58	14.42	14.41	15	3		
10	64QAM	25	25	14.38	14.52	14.49				
10	64QAM	50	0	14.43	14.50	14.45				
Channel				2075	2100	2145				
Frequency (MHz)										
5	QPSK	1	0	17.36	17.38	17.18				
5	QPSK	1	12	17.16	17.54	17.45	18	0		
5	QPSK	1	24	17.39	17.46	17.40				
5	QPSK	12	0	16.41	16.57	16.39				
5	QPSK	12	7	16.53	16.41	16.45	17	1		
5	QPSK	12	13	16.54	16.58	16.34				
5	QPSK	25	0	16.57	16.40	16.44				
5	16QAM	1	0	16.23	16.55	16.58	17	1		
5	16QAM	1	12	16.60	16.73	16.69				
5	16QAM	1	24	16.37	16.41	16.68				
5	16QAM	12	0	15.56	15.39	15.35	16	2		
5	16QAM	12	7	15.45	15.53	15.57				
5	16QAM	12	13	15.46	15.39	15.52				
5	16QAM	25	0	15.57	15.48	15.56				
5	64QAM	1	0	15.33	15.74	15.69	16	2		
5	64QAM	1	12	15.70	15.80	15.56				
5	64QAM	1	24	15.55	15.52	15.74				
5	64QAM	12	0	14.33	14.59	14.51				
5	64QAM	12	7	14.46	14.51	14.50	15	3		
5	64QAM	12	13	14.53	14.45	14.22				
5	64QAM	25	0	14.92	14.44	14.42				

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				2300	2305	2310				
Frequency (MHz)										
10	QPSK	1	0	22.47	22.54	22.60				
10	QPSK	1	25	22.89	22.91	22.74	24	0		
10	QPSK	1	49	22.72	22.84	22.73				
10	QPSK	25	0	21.79	21.83	21.80				
10	QPSK	25	12	21.77	21.71	21.76	23	1		
10	QPSK	25	25	21.76	21.68	21.77				
10	QPSK	50	0	21.77	21.79	21.74				
10	16QAM	1	0	21.65	21.99	21.66				
10	16QAM	1	25	21.91	21.87	21.81	23	1		
10	16QAM	1	49	21.81	21.86	21.75				
10	16QAM	25	0	20.73	20.70	20.68				
10	16QAM	25	12	20.69	20.69	20.76				
10	16QAM	25	25	20.77	20.66	20.73	22	2		
10	16QAM	50	0	20.63	20.70	20.82				
10	64QAM	1	0	20.77	20.85	20.68				
10	64QAM	1	25	20.71	20.67	20.68	22	2		
10	64QAM	1	49	20.51	20.90	20.57				
10	64QAM	25	0	19.75	19.75	19.68				
10	64QAM	25	12	19.80	19.67	19.63	21	3		
10	64QAM	25	25	19.70	19.67	19.76				
10	64QAM	50	0	19.69	19.65	19.73				
Channel				2320	2305	2310				
Frequency (MHz)										
5	QPSK	1	0	22.43	22.52	22.44				
5	QPSK	1	12	22.75	22.74	22.67	24	0		
5	QPSK	1	24	22.52	22.58	22.61				
5	QPSK	12	0	21.64	21.66	21.71				
5	QPSK	12	7	21.73	21.69	21.82	23	1		
5	QPSK	12	13	21.73	21.69	21.66				
5	QPSK	25	0	21.75	21.62	21.71				
5	16QAM	1	0	21.39	21.93	21.73	23	1		
5	16QAM	1	12	22.35	22.52	22.31				
5	16QAM	1	24	21.57	21.73	21.93				
5	16QAM	12	0	20.63	20.70	20.64				
5	16QAM	12	7	20.61	20.65	20.69	22	2		
5	16QAM	12	13	20.61	20.56	20.67				
5	16QAM	25	0	20.56	20.64	20.77				
5	64QAM	1	0	20.81	20.62	20.54				
5	64QAM	1	12	20.94	20.95	21.14	22	2		
5	64QAM	1	24	20.54	20.64	20.57				
5	64QAM	12	0	19.62	19.59	19.59	21	3		
5	64QAM	12	7	19.69	19.69	19.70				
5	64QAM	12	13	19.66	19.61	19.65				
5	64QAM	25	0	19.64	19.73	19.68				
Channel				2320	2305	2310				
Frequency (MHz)										
3	QPSK	1	0	22.61	22.66	22.53				
3	QPSK	1	8	22.65	22.60	22.51	24	0		
3	QPSK	1	14	22.64	22.56	22.58				
3	QPSK	8	0	21.55	21.62	21.63				
3	QPSK	8	4	21.62	21.61	21.60	23	1		
3	QPSK	8	7	21.53	21.60	21.68				
3	QPSK	15	0	21.70	21.70	21.65				
3	16QAM	1	0	21.48	21.98	21.62	23	1		
3	16QAM	1	8	21.92	21.77	21.73				
3	16QAM	1	14	21.71	22.01	21.72				
3	16QAM	8	0	20.57	20.69	20.72				
3	16QAM	8	4	20.64	20.68	20.73	22	2		
3	16QAM	8	7	20.64	20.54	20.74				
3	16QAM	15	0	20.63	20.47	20.57				
3	64QAM	1	0	20.74	20.67	20.84				
3	64QAM	1	8	20.80	20.95	20.91	22	2		
3	64QAM	1	14	20.67	20.72	20.56				
3	64QAM	8	0	19.65	19.62	19.63				
3	64QAM	8	4	19.76	19.67	19.69	21	3		
3	64QAM	8	7	19.67	19.64	19.62				
3	64QAM	15								



Band 14 (700MHz Band)												
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												
2330												
Frequency (MHz)												
10	QPSK	1	0	22.54			24	0				
10	QPSK	1	25	22.83								
10	QPSK	1	49	22.98								
10	QPSK	25	0	21.82								
10	QPSK	25	12	21.72			23	1				
10	QPSK	25	25	21.56								
10	QPSK	50	0	21.88								
10	16QAM	1	0	22.12			23	1				
10	16QAM	1	25	22.26								
10	16QAM	1	49	21.89								
10	16QAM	25	0	20.77								
10	16QAM	25	12	20.73								
10	16QAM	25	25	20.64			22	2				
10	16QAM	50	0	20.61								
10	64QAM	1	0	20.74								
10	64QAM	1	25	20.69								
10	64QAM	1	49	20.43			22	2				
10	64QAM	25	0	19.80								
10	64QAM	25	12	19.65								
10	64QAM	25	25	19.71								
10	64QAM	50	0	19.66			21	3				
Channel												
2335												
Frequency (MHz)												
5	QPSK	1	0	22.48	22.51	22.52				24	0	
5	QPSK	1	12	22.67	22.75	22.69						
5	QPSK	1	24	22.47	22.52	22.52						
5	QPSK	12	0	21.69	21.69	21.69						
5	QPSK	12	7	21.66	21.75	21.75	23	1				
5	QPSK	12	13	21.67	21.69	21.61						
5	QPSK	25	0	21.64	21.70	21.79						
5	16QAM	1	0	21.83	21.87	22.10	23	1				
5	16QAM	1	12	21.90	22.21	21.85						
5	16QAM	1	24	21.85	22.01	21.69						
5	16QAM	12	0	20.81	20.70	20.72						
5	16QAM	12	7	20.76	20.72	20.67						
5	16QAM	12	13	20.68	20.56	20.48	22	2				
5	16QAM	25	0	20.73	20.72	20.51						
5	64QAM	1	0	20.58	20.69	20.67						
5	64QAM	1	12	20.96	20.72	20.92						
5	64QAM	1	24	20.82	20.80	20.63	22	2				
5	64QAM	12	0	19.69	19.68	19.76						
5	64QAM	12	7	19.80	19.79	19.76						
5	64QAM	12	13	19.65	19.78	19.48						
5	64QAM	25	0	19.73	19.66	19.60						

Band 17 (700MHz Band)												
Part 2H(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												
2370												
Frequency (MHz)												
10	QPSK	1	0	23.57	23.52	22.60	24	0				
10	QPSK	1	25	22.76	22.81	22.79						
10	QPSK	1	49	22.80	22.84	22.84						
10	QPSK	25	0	21.60	21.70	21.74						
10	QPSK	25	12	21.65	21.77	21.73	23	1				
10	QPSK	25	25	21.75	21.72	21.71						
10	QPSK	50	0	21.78	21.86	21.82						
10	16QAM	1	0	21.59	21.93	21.67	23	1				
10	16QAM	1	25	22.03	21.86	21.86						
10	16QAM	1	49	21.76	22.06	21.96						
10	16QAM	25	0	20.63	20.74	20.76						
10	16QAM	25	12	20.69	20.75	20.64						
10	16QAM	25	25	20.66	20.72	20.75	22	2				
10	16QAM	50	0	20.86	20.76	20.72						
10	64QAM	1	0	20.65	20.73	20.74						
10	64QAM	1	25	20.92	20.59	21.00						
10	64QAM	1	49	20.89	20.88	20.90	22	2				
10	64QAM	25	0	19.85	19.68	19.72						
10	64QAM	25	12	19.60	19.65	19.71						
10	64QAM	25	25	19.69	19.66	19.86						
10	64QAM	50	0	19.73	19.79	19.88	21	3				
Channel												
2375												
Frequency (MHz)												
5	QPSK	1	0	22.40	22.55	22.48				24	0	
5	QPSK	1	12	22.73	22.76	22.65						
5	QPSK	1	24	22.46	22.49	22.51						
5	QPSK	12	0	21.55	21.65	21.63						
5	QPSK	12	7	21.72	21.81	21.81	23	1				
5	QPSK	12	13	21.62	21.63	21.67						
5	QPSK	25	0	21.67	21.75	21.76						
5	16QAM	1	0	21.70	21.91	21.83	23	1				
5	16QAM	1	12	22.08	22.91	22.25						
5	16QAM	1	24	21.74	21.78	21.86						
5	16QAM	12	0	20.54	20.57	20.64						
5	16QAM	12	7	20.76	20.54	20.72						
5	16QAM	12	13	20.61	20.58	20.71	22	2				
5	16QAM	25	0	20.67	20.64	20.70						
5	64QAM	1	0	20.22	20.73	20.50						
5	64QAM	1	12	20.90	21.00	21.11						
5	64QAM	1	24	20.69	20.70	20.45	22	2				
5	64QAM	12	0	19.60	19.64	19.58						
5	64QAM	12	7	19.72	19.80	19.71						
5	64QAM	12	13	19.58	19.53	19.70						
5	64QAM	25	0	19.73	19.68	19.74						

Band 25 (1900MHz Band)												
Part 2A E												
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												
26140												
Frequency (MHz)												
20	QPSK	1	0	18.06	17.91	17.93	19	0				
20	QPSK	1	49	18.13	18.40	18.23						
20	QPSK	1	99	17.95	17.90	18.07						
20	QPSK	50	0	17.17	17.21	17.14						
20	QPSK	50	24	17.16	17.24	17.19	18	1				
20	QPSK	50	50	17.22	17.19	17.07						
20	QPSK	100	0	17.05	17.21	17.09						
20	16QAM	1	0	17.18	17.01	17.77	18	1				
20	16QAM	1	49	17.43	17.81	17.72						
20	16QAM	1	99	17.36	17.81	17.56						
20	16QAM	50	0	16.98	16.23	16.25						
20	16QAM	50	24	16.21	16.21	16.37						
20	16QAM	50	50	16.16	15.93	15.98	17	2				
20	16QAM	100	0	16.09	16.20	16.24						
20	64QAM	1	0	16.13	16.36	16.13						
20	64QAM	1	49	16.59	16.61	16.82						
20	64QAM	1	99	16.01	16.08	16.27	17	2				
20	64QAM	50	0	15.14	15.24	15.26						
20	64QAM	50	24	15.12	15.22	15.27						
20	64QAM	50	50	15.17	15.60	15.21						
20	64QAM	100	0	15.21	15.08	15.21	16	3				
Channel												
26115												
Frequency (MHz)												
15	QPSK	1	0	18.06	17.96	18.16				19	0	
15	QPSK	1	37	18.23	18.23	18.37						
15	QPSK	1	74	18.03	17.88	18.19						
15	QPSK	36	0	17.16	17.21	17.26						
15	QPSK	36	20	17.12	17.22	17.32	18	1				
15	QPSK	36	39	17.25	17.19	17.41						
15	QPSK	75	0	17.20	17.11	17.11						
15	16QAM	1	0	17.98	17.40	17.26	18	1				
15	16QAM	1	37	18.21	18.21	18.28						
15	16QAM	1	74	17.54	17.66	17.50						
15	16QAM	36	0	16.17	16.09	16.43						
15	16QAM	36	20	16.06	16.28	16.20						
15	16QAM	36	39	16.13	16.12	16.31	17	2				
15	16QAM	75	0	16.30	16.23	16.18						
15	64QAM	1	0	16.15	16.60	16.30						
15	64QAM	1	37	16.59	16.71	16.44						
15	64QAM	1	74	16.16	16.62	16.61	17	2				
15	64QAM	36	0	15.23	15.15	15.18						
15	64QAM	36	20	15.21	15.28	15.16						
15	64QAM	36	39	15.36	15.10	15.27						
15	64QAM	75	0	15.10	15.13	15.46						
Channel												
26090												
Frequency (MHz)												
10	QPSK	1	0	18.06	18.17	18.15	19	0				
10	QPSK	1	25	18.20	18.07	18.30						
10	QPSK	1	49	18.18	17.84	18.26						
10	QPSK	25	0	17.18	17.33	17.33						
10	QPSK	25	12	17.31	17.15	17.39	18	1				
10	QPSK	25	25	17.34	17.11	17.26						
10	QPSK	50	0	17.27	17.24	17.37						
10	16QAM	1	0	17.23	17.13	17.23	18	1				
10	16QAM	1	25	17.34	17.72	17.52						
10	16QAM	1	49	17.05	17.69	17.38						
10	16QAM	25	0	16.23	16.38	16.37						
10	16QAM	25	12	16.15	16.18	16.38						
10	16QAM	25	25	16.20	16.12	16.45	17	2				
10	16QAM	50	0	16.16	16.21	16.32						
10	64QAM	1	0	16.54	16.60	16.59						
10	64QAM	1	25	16.91	16.46	16.59						
10	64QAM	1	49	16.41	16.46	16.69	17	2				
10	64QAM	25	0	15.29	15.29	15.33						
10	64QAM	25	12	15.20	15.23</							



Band 26 for FCC (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				26765	26865	26965						
Frequency (MHz)				22.17	22.17	22.17						
15	QPSK	1	0	22.60	22.67	22.75						
15	QPSK	1	37	22.79	22.99	22.94	24	0				
15	QPSK	1	74	22.73	22.68	22.67						
15	QPSK	35	0	21.84	21.72	21.86						
15	QPSK	35	20	21.87	21.93	21.83	23	1				
15	QPSK	35	39	21.93	21.79	21.85						
15	QPSK	75	0	21.83	21.89	21.87						
15	QPSK	75	0	22.08	22.14	22.10						
15	16QAM	1	37	22.12	22.18	22.24	23	1				
15	16QAM	1	74	22.26	21.85	22.38						
15	16QAM	35	0	20.76	20.79	20.89						
15	16QAM	35	20	20.78	20.82	20.91						
15	16QAM	35	39	20.76	20.76	20.77						
15	16QAM	75	0	20.82	20.83	20.98						
15	64QAM	1	0	20.96	20.88	20.98						
15	64QAM	1	37	21.11	21.15	21.03	22	2				
15	64QAM	1	74	21.05	20.82	20.71						
15	64QAM	35	0	19.75	19.77	19.97						
15	64QAM	35	20	19.69	19.87	19.79						
15	64QAM	35	39	19.79	19.76	19.81	21	3				
15	64QAM	75	0	19.85	19.79	19.91						
Channel				26740	26865	26990						
Frequency (MHz)				21.9	21.5	21.4						
10	QPSK	1	0	22.67	22.63	22.67						
10	QPSK	1	25	22.77	22.71	22.82	24	0				
10	QPSK	1	49	22.71	22.75	22.64						
10	QPSK	25	0	21.88	21.77	21.98						
10	QPSK	25	12	21.82	21.84	21.91						
10	QPSK	25	25	21.71	21.99	21.92	23	1				
10	QPSK	50	0	21.67	21.84	21.96						
10	16QAM	1	0	22.15	22.23	21.86						
10	16QAM	1	25	22.15	22.14	22.48						
10	16QAM	1	49	21.89	22.13	21.74						
10	16QAM	25	0	20.82	20.81	21.00						
10	16QAM	25	12	20.87	20.91	20.95						
10	16QAM	25	25	20.84	20.93	20.83	22	2				
10	16QAM	50	0	20.69	20.82	20.84						
10	64QAM	1	0	20.46	20.89	20.57						
10	64QAM	1	25	21.02	20.99	21.46	22	2				
10	64QAM	1	49	20.90	20.81	20.64						
10	64QAM	25	0	19.86	19.76	20.02						
10	64QAM	25	12	19.87	19.83	19.85						
10	64QAM	25	25	19.71	19.89	19.75	21	3				
10	64QAM	50	0	19.63	19.77	19.89						
Channel				26715	26865	27015						
Frequency (MHz)				21.5	21.5	21.5						
5	QPSK	1	0	22.55	22.63	22.75						
5	QPSK	1	12	22.89	22.83	22.95	24	0				
5	QPSK	1	24	22.63	22.60	22.74						
5	QPSK	12	0	21.60	21.70	21.77						
5	QPSK	12	7	21.86	21.87	21.84	23	1				
5	QPSK	12	13	21.73	21.87	21.78						
5	QPSK	25	0	21.66	21.82	21.89						
5	16QAM	1	0	22.07	21.88	21.89						
5	16QAM	1	12	21.68	22.01	21.86	23	1				
5	16QAM	1	24	21.87	21.79	21.87						
5	16QAM	12	0	20.66	20.77	20.79						
5	16QAM	12	7	20.72	20.85	20.83	22	2				
5	16QAM	12	13	20.59	20.92	20.74						
5	16QAM	25	0	20.83	20.84	20.79						
5	64QAM	1	0	20.73	20.79	21.05						
5	64QAM	1	12	21.35	20.98	21.03	22	2				
5	64QAM	1	24	20.85	20.86	20.78						
5	64QAM	12	0	19.69	19.83	19.85						
5	64QAM	12	7	19.82	19.87	19.92						
5	64QAM	12	13	19.66	19.81	19.84	21	3				
5	64QAM	25	0	19.59	19.85	19.69						
Channel				26705	26865	27025						
Frequency (MHz)				21.5	21.5	21.5						
3	QPSK	1	0	22.66	22.70	22.83						
3	QPSK	1	8	22.70	22.63	22.74	24	0				
3	QPSK	1	14	22.77	22.71	22.67						
3	QPSK	8	0	21.72	21.77	21.93						
3	QPSK	8	4	21.75	21.86	21.82	23	1				
3	QPSK	8	7	21.74	21.75	21.77						
3	QPSK	15	0	21.73	21.81	21.87						
3	16QAM	1	0	22.01	22.09	22.15						
3	16QAM	1	8	22.12	22.39	22.10	23	1				
3	16QAM	1	14	21.79	22.14	22.13						
3	16QAM	8	0	20.68	20.88	20.77						
3	16QAM	8	4	20.71	20.85	20.71						
3	16QAM	8	7	20.73	20.86	20.67	22	2				
3	16QAM	15	0	20.64	20.89	20.74						
3	64QAM	1	0	20.89	20.92	20.86						
3	64QAM	1	8	20.78	20.89	20.73	22	2				
3	64QAM	1	14	21.09	20.88	20.78						
3	64QAM	8	0	19.71	19.78	19.84						
3	64QAM	8	4	19.81	19.90	19.94						
3	64QAM	8	7	19.81	19.71	19.73	21	3				
3	64QAM	15	0	19.63	19.86	19.67						
Channel				26697	26865	27033						
Frequency (MHz)				21.4	21.5	21.5						
1.4	QPSK	1	0	22.65	22.65	22.63						
1.4	QPSK	1	3	22.67	22.68	22.77						
1.4	QPSK	1	5	22.62	22.72	22.69	24	0				
1.4	QPSK	3	0	22.78	22.74	22.75						
1.4	QPSK	3	1	22.83	22.80	22.80						
1.4	QPSK	3	3	22.70	22.75	22.72						
1.4	QPSK	6	0	21.76	21.88	21.81	23	1				
1.4	16QAM	1	0	21.92	21.83	21.73						
1.4	16QAM	1	3	21.71	21.99	21.93						
1.4	16QAM	1	5	22.10	22.14	22.02	23	1				
1.4	16QAM	3	0	21.59	21.85	21.75						
1.4	16QAM	3	1	21.74	21.65	21.76						
1.4	16QAM	3	3	21.78	21.87	21.75						
1.4	16QAM	6	0	20.79	20.95	20.84	22	2				
1.4	16QAM	6	1	20.45	21.03	20.79						
1.4	64QAM	1	3	21.02	20.80	20.97						
1.4	64QAM	1	5	20.87	21.05	20.83						
1.4	64QAM	3	0	20.90	21.11	20.83	22	2				
1.4	64QAM	3	1	20.83	21.01	20.86						
1.4	64QAM	3	3	20.75	21.00	20.91						
1.4	64QAM	6	0	19.86	19.77	19.74	21	3				

Band 66												
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				132072	132322	132572						
Frequency (MHz)				17.0	17.0	17.0						
20	QPSK	1	0	18.88	18.74	18.75						
20	QPSK	1	49	19.04	18.89	18.90	20	0				
20	QPSK	1	99	18.84	18.82	18.86						
20	QPSK	50	0	17.91	17.81	17.89						
20	QPSK	50	24	17.87	17.90	17.90	19	1				
20	QPSK	50	50	17.88	17.79	17.84						
20	QPSK	100	0	17.97	17.81	17.95						
20	16QAM	1	0	18.09	17.97	17.97						
20	16QAM	1	49	18.26	18.23	18.15	19	1				
20	16QAM	1	99	17.97	17.82	17.92						
20	16QAM	50	0	18.06	18.86	17.01						
20	16QAM	50	24	18.94	18.95	18.91						
20	16QAM	50	50	17.01	16.84	16.88						
20	16QAM	100	0	16.99	16.89	16.92	18	2				
20	64QAM	1	0	17.00	16.83	16.87						
20	64QAM	1	49	17.25	17.05	17.09	18	2				
20	64QAM	1	99	16.71	16.84	16.78						
20	64QAM	50	0	16.00	15.93	15.92						
20	64QAM	50	24	16.01	15.82	15.95						
20	64QAM	50	50	15.92	15.86	15.87	17	3				
20	64QAM	100	0	15.84	15.87	15.91						
Channel				132047	132322	132597						
Frequency (MHz)				17.17	17.15	17.15						
15	QPSK	1	0	18.70	18.85	18.86						
15	QPSK	1	37	18.93	18.90	18.98	20	0				
15	QPSK	1	74	18.67	18.68	18.73						
15	QPSK	36	0	18.00	17.79	17.95						
15	QPSK	36	20	17.86	17.96	17.97						
15	QPSK	36	39	17.93	17.83	17.78	19	1				
15	QPSK	75	0	17.80	17.88	17.80						
15	16QAM	1	0	17.94	17.98	17.98						
15	16QAM	1	37	18.26	18.31	18.23	19	1				
15	16QAM	1	74	17.91	17.85	17.79						
15	16QAM	36	0	17.02	16.91	16.96						
15	16QAM	36	20	17.00	16.79	16.84						
15	16QAM	36	39	16.89	16.84	16.87	18	2				
15	16QAM	75	0	16.81	16.90	16.88						
15	64QAM	1	0	16.91	17.02	16.90						
15	64QAM	1	37	17.11	17.12	17.27	18	2				
15	64QAM	1	74	16.93	16.67							



Band 41 (2.6G Band) Class 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40600	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2637.5	2682			
20	QPSK	1	0	19.22	19.13	19.06	19.23	19.07		20	0
20	QPSK	1	49	19.32	19.2	19.44	19.33	19.31			
20	QPSK	1	99	19.24	19.17	19.28	19.16	19.24			
20	QPSK	50	0	18.39	18.3	18.45	18.33	18.33		19	1
20	QPSK	50	24	18.33	18.27	18.26	18.41	18.26			
20	QPSK	50	50	18.32	18.31	18.35	18.31	18.32			
20	QPSK	100	0	18.25	18.3	18.31	18.25	18.23			
20	16QAM	1	0	18.3	18.37	18.38	18.24	18.2		19	1
20	16QAM	1	49	18.4	18.5	18.52	18.41	18.43			
20	16QAM	1	99	18.33	18.4	18.18	18.39	18.14			
20	16QAM	50	0	17.43	17.36	17.24	17.42	17.13		18	2
20	16QAM	50	24	17.46	17.38	17.22	17.31	17.46			
20	16QAM	50	50	17.33	17.28	17.26	17.33	17.46			
20	16QAM	100	0	17.26	17.33	17.22	17.36	17.38			
20	64QAM	1	0	17.1	16.96	16.88	16.97	16.92		18	2
20	64QAM	1	49	17.26	17.25	17.34	17.26	17.31			
20	64QAM	1	99	17.13	16.89	17.11	17.06	17.13			
20	64QAM	50	0	16.41	16.33	16.2	16.41	16.23		17	3
20	64QAM	50	24	16.42	16.22	16.23	16.21	16.37			
20	64QAM	50	50	16.38	16.38	16.23	16.12	16.36			
20	64QAM	100	0	16.41	16.27	16.23	16.42	16.36			
Channel				39725	40173	40620	41068	41515			
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	19.25	19.39	19.19	19.24	19.12		20	0
15	QPSK	1	37	19.3	19.39	19.35	19.43	19.37			
15	QPSK	1	74	19.26	19.37	19.23	19.33	19.23			
15	QPSK	36	0	18.37	18.43	18.29	18.36	18.36		19	1
15	QPSK	36	20	18.47	18.4	18.21	18.21	18.29			
15	QPSK	36	39	18.45	18.39	18.33	18.31	18.16			
15	QPSK	75	0	16.38	16.23	16.39	16.32	16.33		19	1
15	16QAM	1	0	16.29	16.31	16.22	16.33	16.3		19	1
15	16QAM	1	37	16.4	16.39	16.38	16.34	16.29			
15	16QAM	1	74	16.42	16.36	16.3	16.34	16.22			
15	16QAM	36	0	17.4	17.24	17.19	17.17	17.32		18	2
15	16QAM	36	20	17.42	17.31	17.14	17.26	17.36			
15	16QAM	36	39	17.3	17.24	17.27	17.26	17.28			
15	16QAM	75	0	17.28	17.33	17.36	17.21	17.26			
15	64QAM	1	0	17.05	17.01	17.01	17.06	16.88		18	2
15	64QAM	1	37	17.2	17.15	17.19	17.13	17.2			
15	64QAM	1	74	17.14	17.06	17.06	16.98	17.11			
15	64QAM	36	0	16.39	16.33	16.3	16.36	16.11		17	3
15	64QAM	36	20	16.44	16.25	16.13	16.21	16.27			
15	64QAM	36	39	16.37	16.17	16.11	16.4	16.4			
15	64QAM	75	0	16.33	16.24	16.2	16.34	16.42			
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	19.31	19.24	19.23	19.25	19.28		20	0
10	QPSK	1	25	19.31	19.22	19.17	19.28	19.30			
10	QPSK	1	49	19.29	19.29	19.12	19.37	19.20			
10	QPSK	25	0	18.53	18.31	18.25	18.27	18.31		19	1
10	QPSK	25	12	18.49	18.25	18.27	18.41	18.31			
10	QPSK	25	25	18.51	18.29	18.31	18.39	18.24			
10	QPSK	50	0	18.54	18.27	18.32	18.41	18.32			
10	16QAM	1	0	18.36	18.39	18.27	18.38	18.44		19	1
10	16QAM	1	25	18.34	18.31	18.21	18.24	18.23			
10	16QAM	1	49	18.46	18.24	18.45	18.39	18.37			
10	16QAM	25	0	17.80	17.31	17.42	17.43	17.38		18	2
10	16QAM	25	12	17.50	17.48	17.29	17.26	17.41			
10	16QAM	25	25	17.49	17.33	17.38	17.46	17.33			
10	16QAM	50	0	17.53	17.32	17.32	17.28	17.35			
10	64QAM	1	0	17.17	17.17	17.14	17.26	17.21		18	2
10	64QAM	1	25	17.17	16.92	17.08	16.98	17.16			
10	64QAM	1	49	17.21	17.19	17.03	17.02	17.20			
10	64QAM	25	0	16.46	16.52	16.32	16.45	16.36		17	3
10	64QAM	25	12	16.52	16.44	16.33	16.33	16.43			
10	64QAM	25	25	16.40	16.21	16.31	16.37	16.33			
10	64QAM	50	0	16.38	16.35	16.18	16.37	16.26			
Channel				39675	40166	40620	41080	41580			
Frequency (MHz)				2498.5	2545.8	2593	2640.8	2687.5			
5	QPSK	1	0	19.43	19.25	19.32	19.26	19.28		20	0
5	QPSK	1	12	19.33	19.35	19.39	19.31	19.27			
5	QPSK	1	24	19.35	19.31	19.30	19.18	19.26			
5	QPSK	12	0	18.43	18.32	18.27	18.33	18.39		19	1
5	QPSK	12	7	18.37	18.35	18.31	18.43	18.30			
5	QPSK	12	19	18.30	18.19	18.23	18.43	18.43			
5	QPSK	25	0	18.41	18.34	18.35	18.32	18.35		19	1
5	16QAM	1	0	18.32	18.20	18.21	18.27	18.30			
5	16QAM	1	12	18.43	18.41	18.39	18.51	18.45			
5	16QAM	1	24	18.38	18.38	18.35	18.36	18.27		19	1
5	16QAM	12	0	17.36	17.20	17.31	17.35	17.26			
5	16QAM	12	7	17.41	17.25	17.34	17.33	17.20		18	2
5	16QAM	12	19	17.37	17.27	17.27	17.25	17.37			
5	16QAM	25	0	17.45	17.31	17.43	17.28	17.45			
5	64QAM	1	0	17.13	17.18	17.27	17.17	17.19		18	2
5	64QAM	1	12	17.27	17.25	17.31	17.25	17.36			
5	64QAM	1	24	17.10	17.04	17.19	17.17	17.32			
5	64QAM	12	0	16.37	16.28	16.31	16.24	16.48		17	3
5	64QAM	12	7	16.47	16.38	16.21	16.48	16.43			
5	64QAM	12	19	16.34	16.31	16.20	16.27	16.45			
5	64QAM	25	0	16.51	16.29	16.26	16.40	16.42			

Band 41 (2.6G Band) HPIE											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2505	2549.5	2593	2637.5	2682			
20	QPSK	1	0	20.48	20.67	20.61	20.52	20.45		21.5	0
20	QPSK	1	49	20.72	20.71	20.75	20.43	20.62			
20	QPSK	1	99	20.52	20.67	20.41	20.45	20.44			
20	QPSK	50	0	19.69	19.6	19.72	19.62	19.65		20.5	1
20	QPSK	50	24	19.65	19.63	19.67	19.68	19.63			
20	QPSK	50	50	19.68	19.67	19.65	19.66	19.65			
20	QPSK	100	0	19.59	19.63	19.71	19.6	19.6			
20	16QAM	1	0	19.82	19.84	19.9	19.72	19.82		20.5	1
20	16QAM	1	49	19.97	20.07	19.84	19.6	19.85			
20	16QAM	1	99	19.85	19.87	19.69	19.62	19.75			
20	16QAM	50	0	18.8	18.86	18.8	18.53	18.59		19.5	2
20	16QAM	50	24	18.8	18.74	18.86	18.67	18.64			
20	16QAM	50	50	18.73	18.83	18.88	18.65	18.64			
20	16QAM	100	0	18.66	18.6	18.63	18.69	18.6			
20	64QAM	1	0	18.61	18.77	18.89	18.66	18.63		19.5	2
20	64QAM	1	49	18.77	18.93						



Receive on for Head_LAT

GSM450	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
TX Channel	128	189	251	128	189	251	128	189	251
Frequency (MHz)	824.2	830.4	848.8	824.2	830.4	848.8	824.2	830.4	848.8
GSM 1 Tx slot	32.69	32.65	32.57	33.20	23.67	23.64	23.57	23.55	24.20
GPRS 1 Tx slots	32.67	32.64	32.55	33.20	23.67	23.64	23.55	23.55	24.20
GPRS 2 Tx slots	30.61	30.35	30.44	31.00	24.81	24.30	24.44	25.00	24.74
GPRS 3 Tx slots	28.50	28.49	28.36	29.00	24.33	24.23	24.10	24.74	24.74
GPRS 4 Tx slots	27.54	27.45	27.30	28.00	24.54	24.45	24.30	25.00	25.00
EDGE 1 Tx slot	27.13	27.22	27.10	28.00	18.13	18.22	18.10	19.00	19.00
EDGE 2 Tx slots	26.96	26.00	25.94	27.00	19.96	20.09	19.94	21.00	21.00
EDGE 3 Tx slots	23.70	23.83	23.59	24.00	19.44	19.57	19.33	20.74	20.74
EDGE 4 Tx slots	22.42	22.32	22.41	24.00	19.42	19.52	19.41	21.00	21.00

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		512	661	810		
TX Channel	512	661	810	512	661	810	512	661	810
Frequency (MHz)	1825.2	1832	1839.3	1825.2	1832	1839.3	1825.2	1832	1839.3
GSM 1 Tx slot	30.16	30.21	30.22	30.30	21.16	21.21	21.22	21.30	21.30
GPRS 1 Tx slot	30.14	30.19	30.20	30.30	21.14	21.19	21.20	21.30	21.30
GPRS 2 Tx slots	27.76	27.76	27.82	28.00	21.76	21.76	21.82	22.00	22.00
GPRS 3 Tx slots	26.63	26.69	26.76	28.00	21.37	21.43	21.50	21.74	21.74
GPRS 4 Tx slots	24.97	24.62	24.67	25.00	21.57	21.62	21.67	22.00	22.00
EDGE 1 Tx slot	26.83	26.84	26.79	27.00	17.83	17.84	17.79	18.00	18.00
EDGE 2 Tx slots	25.79	25.72	25.74	26.00	19.79	19.72	19.74	20.00	20.00
EDGE 3 Tx slots	23.57	23.56	23.49	24.00	19.31	19.32	19.23	19.74	19.74
EDGE 4 Tx slots	22.28	22.20	22.27	23.00	19.28	19.20	19.27	20.00	20.00

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538	1312	1413	1513	4132	4182	4233	9262	9400	9538	
Rx Channel	9552	9600	9638	1537	1638	1738	4357	4407	4458	9552	9600	9638	
Frequency (MHz)	1825.2	1832	1839.3	1712.4	1732.0	1752.0	4264	4304	4344	1825.2	1832	1839.3	
3GPP Rel 99	AMR 12.2kbps	23.39	23.50	23.59	24.00	22.36	22.08	22.97	24.00	22.96	23.11	23.18	24.00
3GPP Rel 99	RMC 12.2kbps	23.42	23.51	23.54	24.00	22.98	22.91	23.02	24.00	23.10	23.14	23.20	24.00
3GPP Rel 6	HSDPA Subtest-1	22.43	22.54	22.60	23.00	22.03	22.03	22.08	23.00	22.17	22.20	22.31	23.00
3GPP Rel 6	HSDPA Subtest-2	22.36	22.38	22.47	23.00	21.92	22.00	22.06	23.00	22.14	22.13	22.16	23.00
3GPP Rel 6	HSDPA Subtest-3	21.78	21.88	21.96	22.50	21.42	21.50	21.64	22.50	21.65	21.63	21.65	22.50
3GPP Rel 6	HSDPA Subtest-4	21.84	21.84	21.91	22.50	21.47	21.44	21.56	22.50	21.63	21.58	21.65	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.19	22.30	22.45	23.00	21.89	21.80	21.89	23.00	22.04	22.03	22.12	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.10	22.10	22.31	23.00	21.73	21.77	21.92	23.00	21.93	21.89	22.00	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.48	21.63	21.84	22.50	21.13	21.21	21.52	22.50	21.40	21.47	21.52	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.57	21.66	21.67	22.50	21.33	21.19	21.28	22.50	21.40	21.40	21.36	22.50
3GPP Rel 6	HSUPA Subtest-1	20.43	20.55	20.66	22.00	20.08	20.10	20.16	22.00	20.25	20.25	20.27	23.00
3GPP Rel 6	HSUPA Subtest-2	20.50	20.61	20.60	21.00	19.96	19.97	20.14	20.50	20.20	20.23	20.21	21.00
3GPP Rel 6	HSUPA Subtest-3	21.44	21.51	21.65	22.00	21.01	21.03	21.11	21.50	21.14	21.21	21.23	22.00
3GPP Rel 6	HSUPA Subtest-4	19.94	20.06	20.18	21.00	19.56	19.63	19.64	20.50	19.63	19.74	19.78	21.00
3GPP Rel 6	HSUPA Subtest-5	21.30	21.40	21.49	23.00	21.00	21.02	21.10	22.50	21.20	21.10	21.20	23.00



Band 2 (1900MHz Band)										
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										
Frequency (MHz)										
20	QPSK	1	0	23.01	23.07	23.03	24	0		
20	QPSK	1	49	23.1	23.12	23.07				
20	QPSK	1	99	22.83	22.85	23.05				
20	QPSK	50	0	22.08	22.1	22.14	23	1		
20	QPSK	50	24	22.18	22.19	22.18				
20	QPSK	50	50	22.11	21.98	22.06				
20	QPSK	100	0	22.11	22.16	22.13	22	2		
20	16QAM	1	0	22.18	22.57	21.96				
20	16QAM	1	49	22.38	22.46	22.12				
20	16QAM	1	99	22.21	22.19	22.22	21	3		
20	16QAM	50	0	20.99	21.12	21.23				
20	16QAM	50	24	21.08	21.14	21.16				
20	16QAM	50	50	21.1	20.98	21.03	22	2		
20	16QAM	100	0	21.1	21.04	21.06				
20	64QAM	1	0	21.33	21.28	21.07				
20	64QAM	1	49	21.41	21.03	21.45	22	2		
20	64QAM	1	99	21.15	21.1	21.28				
20	64QAM	50	0	20.03	20.07	20.12				
20	64QAM	50	24	20.26	20.03	20.23	21	3		
20	64QAM	50	50	20.09	20.02	20.27				
20	64QAM	100	0	20.17	20.04	20.06				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.01	22.94	23.1	24	0		
15	QPSK	1	37	23.06	23.04	23.11				
15	QPSK	1	74	22.96	22.97	23.09				
15	QPSK	36	0	22.09	22.12	22.19	23	1		
15	QPSK	36	20	22.17	22.06	22.19				
15	QPSK	36	39	22.14	22.03	22.1				
15	QPSK	75	0	22.1	22.11	22.15	23	1		
15	16QAM	1	0	22.43	22.41	22.38				
15	16QAM	1	37	22.36	22.26	22.37				
15	16QAM	1	74	22.44	22.36	22.42	22	2		
15	16QAM	36	0	21.11	21.13	21.23				
15	16QAM	36	20	21.11	21.09	21.27				
15	16QAM	36	39	21.15	21	21.06	22	2		
15	16QAM	75	0	21.1	21.07	21.08				
15	64QAM	1	0	21.38	21.22	21.14				
15	64QAM	1	37	21.33	21.4	21.08	22	2		
15	64QAM	1	74	21.37	20.96	20.86				
15	64QAM	36	0	20.13	20.04	20.13				
15	64QAM	36	20	20.16	20.12	20.14	21	3		
15	64QAM	36	39	20.15	20.08	20.12				
15	64QAM	75	0	20.07	20.03	20.05				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.05	23.07	23.09	24	0		
10	QPSK	1	25	23.10	23.06	23.08				
10	QPSK	1	49	22.99	22.93	23.06				
10	QPSK	25	0	22.11	22.19	22.19	23	1		
10	QPSK	25	12	22.14	22.21	22.21				
10	QPSK	25	25	22.20	22.03	22.18				
10	QPSK	50	0	22.07	22.08	22.14	23	1		
10	16QAM	1	0	22.23	22.21	22.63				
10	16QAM	1	25	22.35	22.50	22.62				
10	16QAM	1	49	22.36	22.40	22.03	22	2		
10	16QAM	25	0	21.14	21.21	21.12				
10	16QAM	25	12	21.14	21.16	21.21				
10	16QAM	25	25	21.21	21.11	21.15	22	2		
10	16QAM	50	0	21.17	21.15	21.20				
10	64QAM	1	0	21.11	21.04	20.90				
10	64QAM	1	25	21.29	21.26	21.24	22	2		
10	64QAM	1	49	21.05	20.76	20.91				
10	64QAM	25	0	20.18	20.20	20.18				
10	64QAM	25	12	20.11	20.17	20.12	21	3		
10	64QAM	25	25	20.28	20.11	20.12				
10	64QAM	50	0	20.09	19.99	20.11				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.03	23.01	23.03	24	0		
5	QPSK	1	12	23.06	23.01	23.06				
5	QPSK	1	24	23.05	23.00	23.11				
5	QPSK	12	0	22.13	22.14	22.21	23	1		
5	QPSK	12	7	22.11	22.11	22.16				
5	QPSK	12	13	22.08	22.06	22.18				
5	QPSK	36	0	22.02	22.11	22.10	23	1		
5	16QAM	1	0	21.93	22.09	22.11				
5	16QAM	1	12	22.46	22.22	22.28				
5	16QAM	1	24	22.18	22.07	22.61	22	2		
5	16QAM	12	0	21.07	21.13	21.27				
5	16QAM	12	7	21.20	21.10	21.20				
5	16QAM	12	13	21.05	21.00	21.19	22	2		
5	16QAM	25	0	21.13	21.09	21.16				
5	64QAM	1	0	21.29	20.96	21.27				
5	64QAM	1	12	21.24	21.05	21.18	22	2		
5	64QAM	1	24	21.35	21.19	21.15				
5	64QAM	12	0	19.97	20.14	20.30				
5	64QAM	12	7	20.16	20.19	20.18	21	3		
5	64QAM	12	13	20.11	20.04	20.18				
5	64QAM	25	0	20.05	20.07	20.22				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.10	23.11	23.10	24	0		
3	QPSK	1	8	23.04	23.02	23.02				
3	QPSK	1	14	22.88	23.05	23.07				
3	QPSK	8	0	21.99	21.98	22.16	23	1		
3	QPSK	8	4	22.13	22.15	22.13				
3	QPSK	8	7	22.00	22.12	22.12				
3	QPSK	15	0	22.06	22.11	22.18	23	1		
3	16QAM	1	0	21.92	22.00	22.21				
3	16QAM	1	8	22.43	22.05	22.04				
3	16QAM	1	14	22.27	21.96	22.26	22	2		
3	16QAM	8	0	21.07	21.03	21.31				
3	16QAM	8	4	21.15	21.13	21.22				
3	16QAM	8	7	20.99	21.06	21.23	22	2		
3	16QAM	15	0	21.01	21.00	21.14				
3	64QAM	1	0	20.97	20.96	21.29				
3	64QAM	1	8	21.21	21.13	21.32	22	2		
3	64QAM	1	14	21.25	21.00	21.16				
3	64QAM	8	0	20.08	20.26	20.14				
3	64QAM	8	4	20.02	20.11	20.23	21	3		
3	64QAM	8	7	20.13	20.02	20.17				
3	64QAM	15	0	19.97	20.07	20.21				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.88	22.03	23.09	24	0		
1.4	QPSK	1	3	22.88	22.97	23.11				
1.4	QPSK	1	6	22.91	22.85	23.14				
1.4	QPSK	3	0	23.03	23.03	23.09	23	1		
1.4	QPSK	3	1	22.97	23.04	23.08				
1.4	QPSK	3	3	23.01	23.06	23.06				
1.4	QPSK	6	0	22.08	22.11	22.17	23	1		
1.4	16QAM	1	0	22.33	22.10	22.29				
1.4	16QAM	1	3	22.38	22.40	22.53				
1.4	16QAM	1	5	22.25	22.20	22.42	23	1		
1.4	16QAM	3	0	21.98	22.02	22.24				
1.4	16QAM	3	1	22.18	22.10	22.69				
1.4	16QAM	3	1	22.07	21.96	22.29	22	2		
1.4	16QAM	6	0	21.33	21.20	21.26				
1.4	64QAM	1	0	21.32	20.99	21.04				
1.4	64QAM	1	3	21.38	21.04	21.11	22	2		
1.4	64QAM	1	5	21.31	21.01	21.31				
1.4	64QAM	3	0	21.26	20.84	21.29				
1.4	64QAM	3	1	21.27	21.23	20.97	21	3		
1.4	64QAM	3	1	21.34	21.14	21.26				
1.4	64QAM	6	0	20.01	20.03	20.13				

Band 4 (AWS Band)										
Part 27L (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										
Frequency (MHz)										
20	QPSK	1	0	22.64	22.68	22.70	24	0		
20	QPSK	1	49	22.74	22.81	22.75				
20	QPSK	1	99	22.54	22.55	22.45				
20	QPSK	50	0	21.63	21.76	21.70	23	1		
20	QPSK	50	24	21.79	21.82	21.80				
20	QPSK	50	50	21.57	21.62	21.69				
20	QPSK	100	0	21.68	21.70	21.69	22	2		
20	16QAM	1	0	21.71	21.53	21.89				



Band 7 (2600MHz Band) 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									
Frequency (MHz)									
20	QPSK	1	0	23.35	23.41	23.53	24	0	
20	QPSK	1	49	23.48	23.49	23.54			
20	QPSK	1	99	23.39	23.38	23.41			
20	QPSK	50	0	22.45	22.53	22.49	23	1	
20	QPSK	50	24	22.40	22.50	22.56			
20	QPSK	50	50	22.46	22.50	22.44			
20	QPSK	100	0	22.47	22.44	22.48	23	1	
20	16QAM	1	0	22.49	22.58	22.70			
20	16QAM	1	49	22.42	22.69	22.78			
20	16QAM	1	99	22.54	22.89	22.95	22	2	
20	16QAM	50	0	21.59	21.51	21.48			
20	16QAM	50	24	21.51	21.53	21.60			
20	16QAM	50	50	21.40	21.05	21.54	22	2	
20	16QAM	100	0	21.48	21.48	21.43			
20	64QAM	1	0	21.50	21.60	21.41			
20	64QAM	1	49	21.55	21.96	21.85	22	2	
20	64QAM	1	99	21.68	21.62	21.74			
20	64QAM	50	0	20.42	20.43	20.45			
20	64QAM	50	24	20.45	20.47	20.45	21	3	
20	64QAM	50	50	20.42	20.48	20.48			
20	64QAM	100	0	20.44	20.48	20.40			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.32	23.36	23.35	24	0	
15	QPSK	1	37	23.38	23.49	23.46			
15	QPSK	1	74	23.32	23.45	23.35			
15	QPSK	36	0	22.53	22.57	22.49	23	1	
15	QPSK	36	20	22.55	22.47	22.55			
15	QPSK	36	39	22.52	22.55	22.54			
15	QPSK	75	0	22.44	22.47	22.55	23	1	
15	16QAM	1	0	22.60	22.66	22.64			
15	16QAM	1	37	22.57	22.52	22.56			
15	16QAM	1	74	22.57	22.62	22.58	22	2	
15	16QAM	36	0	21.50	21.80	21.49			
15	16QAM	36	20	21.55	21.43	21.48			
15	16QAM	36	39	21.57	21.47	21.52	22	2	
15	16QAM	75	0	21.49	21.52	21.59			
15	64QAM	1	0	21.46	21.76	21.50			
15	64QAM	1	37	21.76	21.75	21.64	22	2	
15	64QAM	1	74	21.49	21.81	21.50			
15	64QAM	36	0	20.46	20.52	20.48			
15	64QAM	36	20	20.44	20.46	20.56	21	3	
15	64QAM	36	39	20.39	20.43	20.57			
15	64QAM	75	0	20.54	20.52	20.39			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.43	23.46	23.43	24	0	
10	QPSK	1	25	23.46	23.47	23.46			
10	QPSK	1	49	23.47	23.40	23.38			
10	QPSK	25	0	22.59	22.57	22.52	23	1	
10	QPSK	25	12	22.52	22.50	22.52			
10	QPSK	25	25	22.63	22.63	22.49			
10	QPSK	50	0	22.56	22.60	22.45	23	1	
10	16QAM	1	0	22.87	23.00	22.86			
10	16QAM	1	25	22.98	22.91	22.87			
10	16QAM	1	49	22.82	22.94	22.44	22	2	
10	16QAM	25	0	21.5	21.60	21.47			
10	16QAM	25	12	21.56	21.54	21.47			
10	16QAM	25	25	21.61	21.54	21.53	22	2	
10	16QAM	50	0	21.62	21.56	21.43			
10	64QAM	1	0	21.59	21.86	21.49			
10	64QAM	1	25	21.55	21.76	21.77	22	2	
10	64QAM	1	49	21.46	21.74	21.61			
10	64QAM	25	0	20.45	20.50	20.49			
10	64QAM	25	12	20.54	20.45	20.48	21	3	
10	64QAM	25	25	20.42	20.47	20.55			
10	64QAM	50	0	20.48	20.48	20.45			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.39	23.47	23.21	24	0	
5	QPSK	1	12	23.24	23.51	23.51			
5	QPSK	1	24	23.39	23.40	23.41			
5	QPSK	12	0	22.53	22.56	22.48	23	1	
5	QPSK	12	7	22.55	22.50	22.52			
5	QPSK	12	13	22.52	22.51	22.47			
5	QPSK	25	0	22.49	22.46	22.56	23	1	
5	16QAM	1	0	22.28	22.52	22.79			
5	16QAM	1	12	22.25	22.97	22.97			
5	16QAM	1	24	22.46	22.52	22.80	22	2	
5	16QAM	12	0	21.52	21.47	21.37			
5	16QAM	12	7	21.51	21.55	21.49			
5	16QAM	12	13	21.49	21.38	21.44	22	2	
5	16QAM	25	0	21.51	21.47	21.48			
5	64QAM	1	0	21.39	21.79	21.72			
5	64QAM	1	12	21.62	21.87	21.87	22	2	
5	64QAM	1	24	21.60	21.63	21.79			
5	64QAM	12	0	20.42	20.53	20.48			
5	64QAM	12	7	20.46	20.57	20.56	21	3	
5	64QAM	12	13	20.47	20.56	20.34			
5	64QAM	25	0	20.46	20.51	20.40			

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									
Frequency (MHz)									
10	QPSK	1	0	22.47	22.54	22.60	24	0	
10	QPSK	1	25	22.89	22.91	22.74			
10	QPSK	1	49	22.72	22.64	22.73			
10	QPSK	25	0	21.79	21.83	21.80	23	1	
10	QPSK	25	12	21.77	21.71	21.76			
10	QPSK	25	25	21.76	21.68	21.77			
10	QPSK	50	0	21.77	21.79	21.74	23	1	
10	16QAM	1	0	21.66	21.99	21.66			
10	16QAM	1	25	21.91	21.87	21.81			
10	16QAM	1	49	21.91	21.85	21.75	22	2	
10	16QAM	25	0	20.73	20.70	20.68			
10	16QAM	25	12	20.60	20.69	20.76			
10	16QAM	25	25	20.77	20.66	20.73	22	2	
10	16QAM	50	0	20.63	20.70	20.82			
10	64QAM	1	0	20.77	20.85	20.86			
10	64QAM	1	25	20.71	20.67	20.68	22	2	
10	64QAM	1	49	20.51	20.90	20.57			
10	64QAM	25	0	19.75	19.75	19.68			
10	64QAM	25	12	19.80	19.67	19.63	21	3	
10	64QAM	25	25	19.70	19.67	19.76			
10	64QAM	50	0	19.69	19.65	19.79			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.43	22.52	22.44	24	0	
5	QPSK	1	12	22.75	22.74	22.67			
5	QPSK	1	24	22.52	22.58	22.61			
5	QPSK	12	0	21.64	21.66	21.71	23	1	
5	QPSK	12	7	21.73	21.69	21.82			
5	QPSK	12	13	21.73	21.69	21.66			
5	QPSK	25	0	21.75	21.62	21.71	23	1	
5	16QAM	1	0	21.39	21.93	21.73			
5	16QAM	1	12	22.35	22.02	22.31			
5	16QAM	1	24	21.57	21.73	21.93	22	2	
5	16QAM	12	0	20.63	20.70	20.64			
5	16QAM	12	7	20.61	20.65	20.69			
5	16QAM	12	13	20.61	20.56	20.67	22	2	
5	16QAM	25	0	20.56	20.64	20.77			
5	64QAM	1	0	20.81	20.62	20.54			
5	64QAM	1	12	20.94	20.95	21.17	22	2	
5	64QAM	1	24	20.54	20.64	20.57			
5	64QAM	12	0	19.62	19.59	19.59			
5	64QAM	12	7	19.69	19.66	19.76	21	3	
5	64QAM	12	13	19.66	19.61	19.65			
5	64QAM	25	0	19.64	19.73	19.68			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.61	22.66	22.53	24	0	
3	QPSK	1	8	22.65	22.60	22.51			
3	QPSK	1	14	22.64	22.56	22.58			
3	QPSK	8	0	21.55	21.62	21.63	23	1	
3	QPSK	8	4	21.62	21.61	21.60			
3	QPSK	8	7	21.53	21.60	21.68			
3	QPSK	15	0	21.70	21.70	21.85	23	1	
3	16QAM	8	0	21.45	21.98	21.68			
3	16QAM	1	8	21.92	21.77	21.73			
3	16QAM	1	14	21.71	22.01	21.72	22	2	
3	16QAM	8	0	20.57	20.69	20.72			
3	16QAM	8	4	20.64	20.68	20.73			
3	16QAM	8	7	20.64	20.54	20.74	22	2	
3	16QAM	15	0	20.63	20.47	20.57			
3	64QAM	1	0	20.74	20.67	20.84			
3	64QAM	1	8	20.80	20.95	20.91	22	2	
3	64QAM	1	14	20.97	20.72</				



Band 14 (700MHz Band)									
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									
Frequency (MHz)									
10	QPSK	1	0	22.54					
10	QPSK	1	25	22.83				24	0
10	QPSK	1	49	22.88					
10	QPSK	25	0	21.62					
10	QPSK	25	12	21.72					
10	QPSK	25	25	21.56				23	1
10	QPSK	50	0	21.68					
10	16QAM	1	0	22.12					
10	16QAM	1	25	22.26				23	1
10	16QAM	1	49	21.90					
10	16QAM	25	0	20.71					
10	16QAM	25	12	20.73					
10	16QAM	25	25	20.64				22	2
10	16QAM	50	0	20.61					
10	64QAM	1	0	20.74					
10	64QAM	1	25	20.69				22	2
10	64QAM	1	49	20.43					
10	64QAM	25	0	19.80					
10	64QAM	25	12	19.65					
10	64QAM	25	25	19.71				21	3
10	64QAM	50	0	19.65					
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.48	22.51	22.52			
5	QPSK	1	12	22.67	22.75	22.69		24	0
5	QPSK	1	24	22.47	22.62	22.52			
5	QPSK	12	0	21.69	21.69	21.69			
5	QPSK	12	7	21.66	21.75	21.75			
5	QPSK	12	13	21.67	21.59	21.61		23	1
5	QPSK	25	0	21.64	21.70	21.79			
5	16QAM	1	0	21.83	21.87	22.19			
5	16QAM	1	12	21.90	22.21	21.85		23	1
5	16QAM	1	24	21.85	22.01	21.69			
5	16QAM	12	0	20.61	20.70	20.72			
5	16QAM	12	7	20.76	20.72	20.67			
5	16QAM	12	13	20.68	20.56	20.48		22	2
5	16QAM	25	0	20.73	20.72	20.51			
5	64QAM	1	0	20.58	20.69	20.67			
5	64QAM	1	12	20.96	20.72	20.92		22	2
5	64QAM	1	24	20.82	20.80	20.53			
5	64QAM	12	0	19.69	19.68	19.76			
5	64QAM	12	7	19.80	19.79	19.76			
5	64QAM	12	13	19.65	19.78	19.48		21	3
5	64QAM	25	0	19.73	19.66	19.80			

Band 17 (700MHz Band) Part 2ZH (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									
Frequency (MHz)									
10	QPSK	1	0	23.37	23.52	23.60			
10	QPSK	1	25	22.76	22.81	22.79		24	0
10	QPSK	1	49	22.60	22.64	22.64			
10	QPSK	25	0	21.60	21.70	21.74			
10	QPSK	25	12	21.65	21.77	21.73			
10	QPSK	25	25	21.75	21.72	21.71		23	1
10	QPSK	50	0	21.78	21.86	21.82			
10	16QAM	1	0	21.59	21.93	21.67			
10	16QAM	1	25	22.03	21.86	21.86		23	1
10	16QAM	1	49	21.76	22.05	21.86			
10	16QAM	25	0	20.63	20.74	20.76			
10	16QAM	25	12	20.60	20.76	20.64			
10	16QAM	25	25	20.66	20.72	20.75		22	2
10	16QAM	50	0	20.86	20.76	20.72			
10	64QAM	1	0	20.65	20.73	20.74			
10	64QAM	1	25	20.92	20.59	21.00		22	2
10	64QAM	1	49	20.89	20.88	20.90			
10	64QAM	25	0	19.65	19.68	19.72			
10	64QAM	25	12	19.60	19.65	19.71			
10	64QAM	25	25	19.69	19.66	19.66		21	3
10	64QAM	50	0	19.73	19.79	19.88			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.40	22.55	22.48			
5	QPSK	1	12	22.73	22.76	22.66		24	0
5	QPSK	1	24	22.46	22.49	22.51			
5	QPSK	12	0	21.55	21.65	21.63			
5	QPSK	12	7	21.72	21.81	21.81			
5	QPSK	12	13	21.62	21.63	21.67		23	1
5	QPSK	25	0	21.67	21.75	21.75			
5	16QAM	1	0	21.70	21.91	21.83			
5	16QAM	1	12	22.08	22.01	22.25		23	1
5	16QAM	1	24	21.74	21.78	21.86			
5	16QAM	12	0	20.54	20.57	20.64			
5	16QAM	12	7	20.76	20.54	20.72			
5	16QAM	12	13	20.61	20.58	20.71		22	2
5	16QAM	25	0	20.57	20.64	20.70			
5	64QAM	1	0	20.22	20.73	20.50			
5	64QAM	1	12	20.90	21.00	21.11		22	2
5	64QAM	1	24	20.69	20.70	20.45			
5	64QAM	12	0	19.60	19.64	19.58			
5	64QAM	12	7	19.72	19.80	19.71			
5	64QAM	12	13	19.58	19.53	19.70		21	3
5	64QAM	25	0	19.73	19.68	19.74			

Band 25 (1900MHz Band) 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									
Frequency (MHz)									
20	QPSK	1	0	22.89	22.90	22.92			
20	QPSK	1	49	23.10	23.37	23.16		24	0
20	QPSK	1	99	22.85	22.77	22.88			
20	QPSK	50	0	21.98	22.09	22.08			
20	QPSK	50	24	22.03	22.16	22.11			
20	QPSK	50	50	22.05	22.00	22.04		23	1
20	QPSK	100	0	22.03	22.09	22.03			
20	16QAM	1	0	21.98	21.97	22.57			
20	16QAM	1	49	22.38	22.74	22.69		23	1
20	16QAM	1	99	22.33	22.69	22.69			
20	16QAM	50	0	20.99	21.16	21.08			
20	16QAM	50	24	21.05	21.15	21.22			
20	16QAM	50	50	21.07	20.99	20.94		22	2
20	16QAM	100	0	21.02	20.99	21.05			
20	64QAM	1	0	21.02	21.30	21.11			
20	64QAM	1	49	21.56	21.43	21.61		22	2
20	64QAM	1	99	20.82	20.93	21.26			
20	64QAM	50	0	20.00	20.12	20.06			
20	64QAM	50	24	20.01	20.13	20.23			
20	64QAM	50	50	20.13	19.96	20.02		21	3
20	64QAM	100	0	20.14	19.96	20.13			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.00	22.92	23.01			
15	QPSK	1	37	23.09	23.19	23.17		24	0
15	QPSK	1	74	22.92	22.82	23.01			
15	QPSK	36	0	22.02	22.15	22.20			
15	QPSK	36	20	22.08	22.07	22.25			
15	QPSK	36	39	22.14	22.05	22.24		23	1
15	QPSK	75	0	22.09	22.07	22.08			
15	16QAM	1	0	22.49	22.25	22.17			
15	16QAM	1	37	22.78	23.01	22.79		23	1
15	16QAM	1	74	22.40	22.52	22.33			
15	16QAM	36	0	21.01	21.04	21.24			
15	16QAM	36	20	21.01	21.10	21.14			
15	16QAM	36	39	21.10	21.02	21.17		22	2
15	16QAM	75	0	21.18	21.02	21.11			
15	64QAM	1	0	21.07	21.43	21.18			
15	64QAM	1	37	21.56	21.37	21.26		22	2
15	64QAM	1	74	21.00	20.98	21.00			
15	64QAM	36	0	20.07	20.10	20.13			
15	64QAM	36	20	20.13	20.12	20.16		21	3
15	64QAM	36	39	20.16	20.03	20.11			
15	64QAM	75	0	20.02	20.02	20.28			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.05	23.04	23.05			
10	QPSK	1	25	23.14	23.05	23.17		24	0
10	QPSK	1	49	22.99	22.89	23.12			
10	QPSK	25	0	22.16	22.20	22.27			
10	QPSK	25	12	22.11	22.12	22.25		23	1
10	QPSK	25	25	22.18	22.09	22.14			
10	QPSK	50	0	22.17					



Band 26 for FCC (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									
Frequency (MHz)									
15	QPSK	1	0	22.65	22.67	22.75			
15	QPSK	1	74	22.79	22.80	22.94		24	0
15	QPSK	1	74	22.73	22.68	22.67			
15	QPSK	36	0	21.84	21.73	21.86			
15	QPSK	36	20	21.87	21.83	21.83		23	1
15	QPSK	36	39	21.92	21.79	21.85			
15	QPSK	75	0	21.83	21.89	21.87			
15	16QAM	1	0	22.08	22.14	21.80			
15	16QAM	1	37	22.12	22.18	22.24		23	1
15	16QAM	1	74	22.29	21.85	22.04			
15	16QAM	36	0	20.78	20.79	20.88			
15	16QAM	36	20	20.78	20.82	20.91			
15	16QAM	36	39	20.75	20.76	20.77		22	2
15	16QAM	75	0	20.82	20.83	20.98			
15	64QAM	1	0	20.96	20.88	20.98			
15	64QAM	1	37	21.11	21.15	21.03		22	2
15	64QAM	1	74	21.05	20.82	20.71			
15	64QAM	36	0	19.75	19.77	19.97			
15	64QAM	36	20	19.69	19.87	19.79		21	3
15	64QAM	36	39	19.79	19.76	19.81			
15	64QAM	75	0	19.86	19.79	19.91			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.67	22.63	22.67			
10	QPSK	1	25	22.77	22.77	22.84		24	0
10	QPSK	1	49	22.71	22.75	22.64			
10	QPSK	25	0	21.88	21.77	21.88			
10	QPSK	25	12	21.82	21.94	21.91		23	1
10	QPSK	25	25	21.71	21.99	21.92			
10	QPSK	50	0	21.67	21.94	21.96			
10	16QAM	1	0	22.15	22.23	21.86			
10	16QAM	1	37	22.15	22.14	22.48		23	1
10	16QAM	1	49	21.89	22.13	21.74			
10	16QAM	25	0	20.82	20.81	21.00			
10	16QAM	25	12	20.87	20.91	20.95		22	2
10	16QAM	25	25	20.64	20.93	20.93			
10	16QAM	50	0	20.69	20.82	20.84			
10	64QAM	1	0	20.46	20.89	20.97			
10	64QAM	1	25	21.02	20.99	21.46		22	2
10	64QAM	1	49	20.90	20.81	20.64			
10	64QAM	25	0	19.86	19.76	20.02			
10	64QAM	25	12	19.87	19.92	19.88		21	3
10	64QAM	25	25	19.71	19.89	19.76			
10	64QAM	50	0	19.83	19.77	19.89			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.55	23.15	22.75			
5	QPSK	1	12	22.89	22.83	22.95		24	0
5	QPSK	1	24	22.63	22.60	22.74			
5	QPSK	12	0	21.60	21.70	21.77			
5	QPSK	12	7	21.86	21.87	21.84		23	1
5	QPSK	12	13	21.73	21.87	21.78			
5	QPSK	25	0	21.66	21.82	21.89			
5	16QAM	1	0	22.07	21.68	21.93		23	1
5	16QAM	1	12	21.68	22.01	21.86			
5	16QAM	1	24	21.87	21.79	21.87			
5	16QAM	12	0	20.66	20.77	20.79			
5	16QAM	12	7	20.72	20.85	20.83		22	2
5	16QAM	12	13	20.59	20.92	20.74			
5	16QAM	25	0	20.63	20.84	20.79			
5	64QAM	1	0	20.73	20.79	21.05		22	2
5	64QAM	1	12	21.35	20.98	21.03			
5	64QAM	1	24	20.85	20.89	20.94			
5	64QAM	12	0	19.69	19.83	19.85			
5	64QAM	12	7	19.82	19.87	19.82		21	3
5	64QAM	12	13	19.66	19.81	19.84			
5	64QAM	25	0	19.59	19.85	19.69			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.66	22.70	22.83			
3	QPSK	1	8	22.70	22.63	22.74		24	0
3	QPSK	1	14	22.77	22.71	22.67			
3	QPSK	8	0	21.72	21.77	21.93			
3	QPSK	8	4	21.75	21.86	21.82		23	1
3	QPSK	8	7	21.74	21.76	21.97			
3	QPSK	15	0	21.73	21.81	21.97			
3	16QAM	1	0	22.01	22.09	22.15			
3	16QAM	1	8	22.12	22.29	22.10		23	1
3	16QAM	1	14	21.79	22.14	22.13			
3	16QAM	8	0	20.68	20.88	20.77			
3	16QAM	8	4	20.71	20.85	20.71		22	2
3	16QAM	8	7	20.73	20.86	20.67			
3	16QAM	15	0	20.64	20.89	20.74			
3	64QAM	1	0	20.89	20.52	20.86		22	2
3	64QAM	1	8	20.78	20.89	20.73			
3	64QAM	1	14	21.08	20.88	20.78			
3	64QAM	8	0	19.71	19.78	19.84			
3	64QAM	8	4	19.81	19.90	19.94			
3	64QAM	8	7	19.81	19.71	19.73		21	3
3	64QAM	15	0	19.83	19.86	19.87			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.69	22.65	22.63			
1.4	QPSK	1	3	22.67	22.68	22.77		24	0
1.4	QPSK	1	5	22.62	22.72	22.69			
1.4	QPSK	3	0	22.78	22.74	22.75			
1.4	QPSK	3	1	22.83	22.80	23.00			
1.4	QPSK	3	3	22.70	22.75	22.72		23	1
1.4	QPSK	6	0	21.76	21.88	21.81			
1.4	16QAM	1	0	21.92	21.83	21.73		23	1
1.4	16QAM	1	3	21.71	21.99	21.93			
1.4	16QAM	1	5	22.10	22.14	22.02			
1.4	16QAM	3	0	21.59	21.85	21.75			
1.4	16QAM	3	1	21.74	21.65	21.76		22	2
1.4	16QAM	3	3	21.78	21.87	21.75			
1.4	16QAM	6	0	20.79	20.86	20.84		22	2
1.4	64QAM	1	0	20.45	21.03	20.78			
1.4	64QAM	1	3	21.02	20.90	20.97			
1.4	64QAM	1	5	20.87	21.05	20.83		22	2
1.4	64QAM	3	0	20.90	21.11	20.83			
1.4	64QAM	3	1	20.83	21.01	20.86			
1.4	64QAM	3	3	20.75	21.00	20.91		21	3
1.4	64QAM	6	0	19.86	19.77	19.74			

Band 66									
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									
Frequency (MHz)									
20	QPSK	1	0	22.44	22.58	22.56			
20	QPSK	1	49	22.88	22.75	22.83		24	0
20	QPSK	1	99	22.48	22.38	22.45			
20	QPSK	50	0	21.84	21.74	21.83			
20	QPSK	50	24	21.83	21.85	21.79		23	1
20	QPSK	50	50	21.77	21.75	21.68			
20	QPSK	100	0	21.78	21.73	21.77			
20	16QAM	1	0	21.87	21.82	21.77			
20	16QAM	1	49	22.13	21.99	22.06		23	1
20	16QAM	1	99	21.76	21.80	21.82			
20	16QAM	50	0	20.83	20.74	20.83			
20	16QAM	50	24	20.84	20.75	20.76		22	2
20	16QAM	50	50	20.78	20.73	20.67			
20	16QAM	100	0	20.77	20.71	20.75			
20	64QAM	1	0	20.77	20.79	20.89			
20	64QAM	1	49	21.11	20.95	20.98		22	2
20	64QAM	1	99	20.65	20.60	20.54			
20	64QAM	50	0	19.81	19.74	19.84			
20	64QAM	50	24	19.82	19.75	19.77		21	3
20	64QAM	50	50	19.84	19.75	19.88			
20	64QAM	100	0	19.78	19.74	19.75			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.62	22.62	22.64			
15	QPSK	1	37	22.85	22.77	22.84		24	0
15	QPSK	1	74	22.50	22.46	22.51			
15	QPSK	36	0	21.84	21.72	21.82			
15	QPSK	36	20	21.79	21.72	21.79		23	1
15	QPSK	36	39	21.78	21.71	21.66			
1									



Band 41 (2.6G Band) Class 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40600	41055	41490			
Frequency (MHz)				2906	2949.5	2993	3037.5	3081.5			
20	QPSK	1	0	23.17	23.07	22.99	23.04	23.03		24	0
20	QPSK	1	49	23.22	23.16	23.3	23.21	23.19			
20	QPSK	1	99	23.15	23.07	23.08	23.09	23.03			
20	QPSK	50	0	22.26	22.17	22.27	22.2	22.09		23	1
20	QPSK	50	24	22.21	22.29	22.17	22.2	22.11			
20	QPSK	50	50	22.19	22.2	22.21	22.13	22.12			
20	QPSK	100	0	22.19	22.17	22.22	22.19	22.1			
20	16QAM	1	0	22.23	22.19	22.21	22.05	22		23	1
20	16QAM	1	49	22.31	22.28	22.38	22.32	22.21			
20	16QAM	1	99	22.13	22.21	22.13	22.18	22.1			
20	16QAM	50	0	21.34	21.18	21.12	21.24	21.09		22	2
20	16QAM	50	24	21.2	21.29	21.17	21.2	21.15			
20	16QAM	50	50	21.27	21.18	21.13	21.15	21.23			
20	16QAM	100	0	21.18	21.18	21.15	21.25	21.24			
20	64QAM	1	0	20.91	20.91	20.93	20.93	20.87		22	2
20	64QAM	1	49	21.16	21.15	21.22	21.13	21.12			
20	64QAM	1	99	20.9	20.84	20.94	20.9	20.93			
20	64QAM	50	0	20.25	20.15	20.06	20.19	20.04		21	3
20	64QAM	50	24	20.2	20.16	20.07	20.17	20.15			
20	64QAM	50	50	20.27	20.22	20.13	20.06	20.19			
20	64QAM	100	0	20.21	20.15	20.14	20.24	20.17			
Channel				39725	40173	40620	41068	41515			
Frequency (MHz)				2903.5	2948.3	2993	3037.8	3082.5			
15	QPSK	1	0	23.21	23.16	23.11	23.1	23.05		24	0
15	QPSK	1	37	23.24	23.22	23.24	23.29	23.24			
15	QPSK	1	74	23.05	23.09	23.05	23.12	23.13			
15	QPSK	36	0	22.26	22.21	22.13	22.12	22.14		23	1
15	QPSK	36	20	22.24	22.22	22.14	22.17	22.06			
15	QPSK	36	39	22.24	22.16	22.21	22.2	22.07			
15	QPSK	75	0	22.28	22.15	22.18	22.21	22.12			
15	16QAM	1	0	22.25	22.17	22.12	22.16	22.11		23	1
15	16QAM	1	37	22.34	22.23	22.27	22.26	22.17			
15	16QAM	1	74	21.21	21.09	21.05	21.17	21.11		22	2
15	16QAM	36	0	21.21	21.13	21.04	21.08	21.13			
15	16QAM	36	20	21.18	21.18	21.02	21.11	21.16			
15	16QAM	36	39	21.16	21.08	21.06	21.13	21.18			
15	16QAM	75	0	21.23	21.14	21.14	21.17	21.2		22	2
15	64QAM	1	0	21.01	20.93	20.96	20.93	20.84		21	3
15	64QAM	1	37	21.16	21.1	21.11	21.08	21.08			
15	64QAM	1	74	20.9	20.97	20.97	20.94	21			
15	64QAM	36	0	20.23	20.13	20.09	20.16	20.05			
15	64QAM	36	20	20.21	20.14	20.09	20.07	20.14			
15	64QAM	36	39	20.25	20.12	20.07	20.18	20.17			
15	64QAM	75	0	20.23	20.14	20.15	20.14	20.21			
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2901	2947	2993	3039	3085			
10	QPSK	1	0	23.24	23.17	23.13	23.16	23.12		24	0
10	QPSK	1	25	23.15	23.01	23.00	23.07	23.10			
10	QPSK	1	49	23.25	23.19	23.08	23.16	23.16			
10	QPSK	25	0	22.30	22.20	22.15	22.20	22.21		23	1
10	QPSK	25	12	22.28	22.20	22.18	22.21	22.21			
10	QPSK	25	25	22.28	22.17	22.19	22.19	22.12			
10	QPSK	50	0	22.30	22.12	22.18	22.20	22.13		23	1
10	16QAM	1	0	22.31	22.19	22.16	22.20	22.21			
10	16QAM	1	25	22.23	22.11	22.06	22.11	22.04		22	2
10	16QAM	1	49	22.23	22.14	22.21	22.18	22.19			
10	16QAM	25	0	21.37	21.22	21.26	21.23	21.25			
10	16QAM	25	12	21.34	21.24	21.15	21.22	21.26			
10	16QAM	25	25	21.29	21.18	21.20	21.27	21.21			
10	16QAM	50	0	21.43	21.14	21.18	21.19	21.18		22	2
10	64QAM	1	0	21.05	21.01	20.96	20.91	20.97		21	3
10	64QAM	1	25	20.93	20.84	20.93	20.93	20.93			
10	64QAM	1	49	20.99	20.97	20.99	20.97	21.06			
10	64QAM	25	0	20.32	20.29	20.19	20.29	20.27			
10	64QAM	25	12	20.32	20.23	20.34	20.27	20.22			
10	64QAM	25	25	20.32	20.12	20.23	20.25	20.27			
10	64QAM	50	0	20.22	20.18	20.13	20.16	20.15			
Channel				39675	40166	40620	41080	41550			
Frequency (MHz)				2898.5	2945.8	2993	3040.30	3087.3			
5	QPSK	1	0	23.20	23.08	23.10	23.12	23.17		24	0
5	QPSK	1	12	23.21	23.27	23.16	23.25	23.22			
5	QPSK	1	24	23.22	23.15	23.06	23.09	23.11			
5	QPSK	12	0	22.29	22.17	22.16	22.21	22.16		23	1
5	QPSK	12	7	22.29	22.26	22.13	22.29	22.21			
5	QPSK	12	19	22.32	22.14	22.15	22.20	22.20			
5	QPSK	25	0	22.27	22.18	22.15	22.20	22.13		23	1
5	16QAM	1	0	22.27	22.15	22.12	22.18	22.19			
5	16QAM	1	12	22.35	22.28	22.29	22.34	22.26		23	1
5	16QAM	1	24	22.24	22.20	22.15	22.16	22.15			
5	16QAM	12	0	21.32	21.10	21.12	21.11	21.15		22	2
5	16QAM	12	7	21.24	21.14	21.17	21.18	21.15			
5	16QAM	12	19	21.26	21.12	21.04	21.14	21.16			
5	16QAM	25	0	21.36	21.22	21.21	21.20	21.25		22	2
5	64QAM	1	0	21.05	21.06	21.06	20.98	21.04		21	3
5	64QAM	1	12	21.16	21.14	21.17	21.14	21.23			
5	64QAM	1	24	21.06	20.97	21.05	20.96	21.08			
5	64QAM	12	0	20.25	20.15	20.12	20.12	20.24			
5	64QAM	12	7	20.30	20.24	20.15	20.26	20.27			
5	64QAM	12	19	20.28	20.16	20.14	20.18	20.21			
5	64QAM	25	0	20.38	20.20	20.20	20.17	20.20			

Band 41 (2.6G Band) HPUE											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2906	2949.5	2993	3037.5	3081.5			
20	QPSK	1	0	26	26.12	25.97	25.88	25.92		27	0
20	QPSK	1	49	26.07	26.09	26.14	26.12	26.01			
20	QPSK	1	99	25.98	26.05	25.93	25.89	25.92			
20	QPSK	50	0	25.12	25.12	25.13	25.15	25.12		26	1
20	QPSK	50	24	25.12	25.11	25.08	25.06	25.12			
20	QPSK	50	50	25.11	25.13	25.05	25.07	25.07			
20	QPSK	100	0	25.09	25.08	25.11	25.07	25.1			
20	16QAM	1	0	25.25	25.43	25.22	25.12	25.14		26	1
20	16QAM	1	49	25.3	25.42	25.26	25.1	25.22			
20	16QAM	1	99	25.19	25.36	25.19	25.09	25.18			
20	16QAM	50	0	24.18	24.29	24.14	24.05	24.11		25	2
20	16QAM	50	24	24.16	24.25	24.12	24.07	24.14			
20	16QAM	50	50	24.14	24.26	24.1	24.07	24.11			
20	16QAM	100	0	24.15	24.23	24.08	24.04	24.1			
20	64QAM	1	0	24.13	24.22	24.07	23.99	24.03		25	2
20	64QAM	1	49	24.18	24.29	24.07					



Receive off for Hotspot on/Body-worn_UAT

GSM900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	834.2	836.4	848.8		834.2	836.4	848.8	
Frequency (MHz)	82.69	82.65	82.57	33.20	23.69	23.65	23.57	24.20
GSM 1 Tx slot	32.67	32.64	32.55	33.20	23.67	23.64	23.55	24.20
GPRS 2 Tx slots	33.61	33.55	33.44	31.50	24.61	24.55	24.44	25.00
GPRS 3 Tx slots	28.59	28.49	28.38	29.00	24.33	24.23	24.10	24.74
GPRS 4 Tx slots	27.54	27.45	27.30	28.00	24.54	24.45	24.30	25.00
EDGE 1 Tx slot	27.13	27.22	27.10	28.00	18.13	18.22	18.10	19.00
EDGE 2 Tx slots	25.96	26.00	25.94	27.00	19.96	20.00	19.94	21.00
EDGE 3 Tx slots	23.70	23.83	23.59	25.00	19.44	19.57	19.33	20.74
EDGE 4 Tx slots	22.42	22.52	22.41	24.00	19.42	19.52	19.41	21.00

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1800.2	1800.2	1800.8		1800.2	1800.2	1800.8	
Frequency (MHz)	30.16	30.21	30.22	30.30	21.16	21.21	21.22	21.30
GSM 1 Tx slot	30.14	30.19	30.20	30.30	21.14	21.19	21.20	21.30
GPRS 2 Tx slots	27.75	27.76	27.82	28.00	21.75	21.76	21.82	22.00
GPRS 3 Tx slots	25.63	25.69	25.76	26.00	21.37	21.43	21.50	21.74
GPRS 4 Tx slots	24.57	24.62	24.67	25.00	21.57	21.62	21.67	22.00
EDGE 1 Tx slot	26.83	26.84	26.79	27.00	17.83	17.84	17.79	18.00
EDGE 2 Tx slots	26.79	26.72	26.74	26.00	19.79	19.72	19.74	20.00
EDGE 3 Tx slots	23.57	23.56	23.49	24.00	19.31	19.32	19.23	19.74
EDGE 4 Tx slots	22.28	22.20	22.27	23.00	19.28	19.20	19.27	20.00

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	2622	3400	3638		1312	1413	1513		4132	4182	4233	
TX Channel	9662	9600	9638		1537	1638	1738		4367	4407	4458	
Rx Channel	9662	9600	9638		1537	1638	1738		4367	4407	4458	
Frequency (MHz)	1822.4	1800	1807.6	23.50	22.95	22.88	22.97	24.00	22.95	23.11	23.16	24.00
3GPP Rel 99	AMR 12.2kbps	22.90	23.02	23.11	23.50	22.95	22.88	22.97	24.00	23.11	23.16	24.00
3GPP Rel 99	RMC 12.2kbps	22.93	23.00	23.13	23.50	22.98	22.91	23.02	24.00	23.10	23.14	23.20
3GPP Rel 6	HSDPA Subtest-1	22.04	22.06	22.05	22.50	22.00	22.03	22.08	23.00	22.17	22.20	22.31
3GPP Rel 6	HSDPA Subtest-2	21.81	21.79	21.96	22.50	21.92	22.00	22.06	23.00	22.14	22.13	22.16
3GPP Rel 6	HSDPA Subtest-3	21.38	21.46	21.63	22.00	21.42	21.50	21.64	22.50	21.69	21.63	21.65
3GPP Rel 6	HSDPA Subtest-4	21.44	21.37	21.47	22.00	21.47	21.44	21.55	22.50	21.63	21.68	21.65
3GPP Rel 8	DC-HSDPA Subtest-1	21.71	21.84	21.86	22.50	21.89	21.80	21.89	23.00	22.04	22.03	22.12
3GPP Rel 8	DC-HSDPA Subtest-2	21.72	21.70	21.82	22.50	21.73	21.77	21.92	23.00	21.93	21.89	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.06	21.09	21.36	22.00	21.13	21.21	21.52	22.50	21.40	21.47	21.52
3GPP Rel 8	DC-HSDPA Subtest-4	21.10	21.27	21.24	22.00	21.33	21.19	21.28	22.50	21.40	21.49	21.38
3GPP Rel 6	HSUPA Subtest-1	19.97	19.96	20.19	21.50	20.08	20.10	20.16	22.00	20.20	20.25	20.27
3GPP Rel 6	HSUPA Subtest-2	19.93	20.23	20.03	20.50	19.96	19.97	20.14	20.50	20.20	20.23	20.21
3GPP Rel 6	HSUPA Subtest-3	20.68	20.99	21.24	21.50	21.01	21.03	21.11	21.50	21.14	21.21	21.23
3GPP Rel 6	HSUPA Subtest-4	19.40	19.62	19.76	20.50	19.56	19.63	19.64	20.50	19.83	19.74	19.78
3GPP Rel 6	HSUPA Subtest-6	20.75	21.00	20.97	22.50	21.00	21.02	21.10	22.50	21.20	21.10	21.20



Band 2 (1900MHz Band)										
Part 24E										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power High Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.01	23.07	23.03	24	0		
20	QPSK	1	49	23.11	23.17	23.07	24	0		
20	QPSK	1	99	22.83	22.85	23.05	24	0		
20	QPSK	50	0	22.08	22.11	22.14	23	1		
20	QPSK	50	24	22.18	22.19	22.18	23	1		
20	QPSK	50	50	22.11	21.98	22.05	23	1		
20	QPSK	100	0	22.11	22.16	22.13	23	1		
20	16QAM	1	0	22.18	22.57	21.95	23	1		
20	16QAM	1	49	22.38	22.46	22.12	23	1		
20	16QAM	1	99	22.17	22.12	22.22	23	1		
20	16QAM	50	0	20.89	21.12	21.23	22	2		
20	16QAM	50	24	21.08	21.14	21.16	22	2		
20	16QAM	50	50	21.11	20.98	21.03	22	2		
20	16QAM	100	0	21.1	21.04	21.08	22	2		
20	64QAM	1	0	21.33	21.28	21.07	22	2		
20	64QAM	1	49	21.41	21.03	21.45	22	2		
20	64QAM	1	99	21.15	21.1	21.28	22	2		
20	64QAM	50	0	20.03	20.07	20.12	21	3		
20	64QAM	50	24	20.26	20.03	20.23	21	3		
20	64QAM	50	50	20.08	20.02	20	21	3		
20	64QAM	100	0	20.17	20.04	20.06	21	3		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.01	22.94	23.1	24	0		
15	QPSK	1	37	23.06	23.04	23.11	24	0		
15	QPSK	1	74	22.96	22.97	23.09	24	0		
15	QPSK	36	0	22.09	22.12	22.19	23	1		
15	QPSK	36	20	22.17	22.06	22.19	23	1		
15	QPSK	36	39	22.14	22.03	22.1	23	1		
15	QPSK	75	0	22.1	22.11	22.15	23	1		
15	16QAM	1	0	22.43	22.41	22.38	23	1		
15	16QAM	1	37	22.16	22.28	22.17	23	1		
15	16QAM	1	74	22.44	22.36	22.42	23	1		
15	16QAM	36	0	21.11	21.13	21.23	22	2		
15	16QAM	36	20	21.11	21.09	21.27	22	2		
15	16QAM	36	39	21.15	21	21.06	22	2		
15	16QAM	75	0	21.1	21.07	21.08	22	2		
15	64QAM	1	0	21.38	21.22	21.14	22	2		
15	64QAM	1	37	21.33	21.4	21.08	22	2		
15	64QAM	1	74	21.37	20.96	20.86	22	2		
15	64QAM	36	0	20.13	20.04	20.13	21	3		
15	64QAM	36	20	20.16	20.02	20	21	3		
15	64QAM	36	39	20.15	20.08	20.08	21	3		
15	64QAM	75	0	20.07	20.03	20.05	21	3		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.05	23.07	23.09	24	0		
10	QPSK	1	25	23.10	23.06	23.08	24	0		
10	QPSK	1	49	22.99	22.93	23.06	24	0		
10	QPSK	25	0	22.11	22.18	22.19	23	1		
10	QPSK	25	12	22.14	22.21	22.21	23	1		
10	QPSK	25	25	22.20	22.03	22.18	23	1		
10	QPSK	50	0	22.07	22.08	22.14	23	1		
10	16QAM	1	0	22.23	22.27	22.49	23	1		
10	16QAM	1	25	22.35	22.50	22.62	23	1		
10	16QAM	1	49	22.48	22.40	22.03	23	1		
10	16QAM	25	0	21.14	21.21	21.12	22	2		
10	16QAM	25	12	21.14	21.16	21.21	22	2		
10	16QAM	25	25	21.21	21.11	21.15	22	2		
10	16QAM	50	0	21.17	21.15	21.20	22	2		
10	64QAM	1	0	21.11	20.84	20.90	22	2		
10	64QAM	1	25	21.29	21.26	21.24	22	2		
10	64QAM	1	49	21.05	20.75	20.91	22	2		
10	64QAM	25	0	20.19	20.27	20.18	21	3		
10	64QAM	25	12	20.11	20.17	20.12	21	3		
10	64QAM	25	25	20.28	20.11	20.12	21	3		
10	64QAM	50	0	20.09	19.99	20.11	21	3		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.03	23.00	23.03	24	0		
5	QPSK	1	12	23.06	23.01	23.06	24	0		
5	QPSK	1	24	23.05	23.00	23.11	24	0		
5	QPSK	12	0	22.13	22.14	22.21	23	1		
5	QPSK	12	7	22.11	22.11	22.16	23	1		
5	QPSK	12	13	22.09	22.15	22.15	23	1		
5	QPSK	25	0	22.02	22.11	22.10	23	1		
5	16QAM	1	0	21.93	22.09	22.11	23	1		
5	16QAM	1	12	22.46	22.22	22.28	23	1		
5	16QAM	1	24	22.18	22.07	22.61	23	1		
5	16QAM	12	0	21.07	21.13	21.27	22	2		
5	16QAM	12	7	21.20	21.10	21.20	22	2		
5	16QAM	12	13	21.05	21.00	21.19	22	2		
5	16QAM	25	0	21.13	21.08	21.16	22	2		
5	64QAM	1	0	21.29	20.96	21.27	22	2		
5	64QAM	1	12	21.19	21.05	21.28	22	2		
5	64QAM	1	24	21.35	21.18	21.15	22	2		
5	64QAM	12	0	19.97	20.14	20.30	21	3		
5	64QAM	12	7	20.16	20.19	20.18	21	3		
5	64QAM	12	13	20.11	20.04	20.18	21	3		
5	64QAM	25	0	20.05	20.07	20.22	21	3		
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.10	23.11	23.10	24	0		
3	QPSK	1	8	23.04	23.02	23.02	24	0		
3	QPSK	1	14	22.98	23.05	23.05	24	0		
3	QPSK	8	0	21.99	21.98	22.16	23	1		
3	QPSK	8	4	22.13	22.13	22.13	23	1		
3	QPSK	8	7	22.00	22.02	22.12	23	1		
3	QPSK	15	0	22.06	22.11	22.18	23	1		
3	16QAM	1	0	21.92	22.00	22.21	23	1		
3	16QAM	1	8	22.43	22.05	22.04	23	1		
3	16QAM	1	14	22.27	21.96	22.26	23	1		
3	16QAM	8	0	21.07	21.03	21.31	22	2		
3	16QAM	8	4	21.15	21.13	21.22	22	2		
3	16QAM	8	7	20.99	21.06	21.23	22	2		
3	16QAM	15	0	21.01	21.05	21.14	22	2		
3	64QAM	1	0	20.97	20.99	21.29	22	2		
3	64QAM	1	8	21.21	21.13	21.32	22	2		
3	64QAM	1	14	21.25	21.00	21.16	22	2		
3	64QAM	8	0	20.08	20.26	20.14	21	3		
3	64QAM	8	4	20.02	20.11	20.23	21	3		
3	64QAM	8	7	20.13	20.02	20.17	21	3		
3	64QAM	15	0	19.97	20.07	20.21	21	3		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.98	23.03	23.09	24	0		
1.4	QPSK	1	3	23.08	22.97	23.11	24	0		
1.4	QPSK	1	5	22.95	22.95	23.09	24	0		
1.4	QPSK	3	0	22.03	22.03	22.09	23	1		
1.4	QPSK	3	1	22.97	23.04	23.08	23	1		
1.4	QPSK	3	3	23.01	23.06	23.05	23	1		
1.4	QPSK	6	0	22.08	22.11	22.17	23	1		
1.4	16QAM	1	0	22.33	22.10	22.29	23	1		
1.4	16QAM	1	3	22.38	22.40	22.53	23	1		
1.4	16QAM	1	5	22.25	22.20	22.42	23	1		
1.4	16QAM	3	0	21.98	22.02	22.24	22	2		
1.4	16QAM	3	1	22.18	22.10	22.05	22	2		
1.4	16QAM	3	1	21.99	21.91	22.21	22	2		
1.4	16QAM	6	0	21.33	21.20	21.26	22	2		
1.4	64QAM	1	0	21.32	20.99	21.04	22	2		
1.4	64QAM	1	3	21.38	21.04	21.11	22	2		
1.4	64QAM	1	5	21.31	21.01	21.31	22	2		
1.4	64QAM	3	0	21.26	20.84	21.29	22	2		
1.4	64QAM	3	1	21.27	21.23	20.97	22	2		
1.4	64QAM	3	3	21.34	21.14	21.29	22	2		
1.4	64QAM	6								



Band 7 (2600MHz Band) 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				2050	2100	2150				
Frequency (MHz)										
20	QPSK	1	0	20.90	20.92	20.93				
20	QPSK	1	49	21.03	21.05	21.10	21.5	0		
20	QPSK	1	99	20.93	20.91	20.95				
20	QPSK	50	0	20.02	20.06	20.07				
20	QPSK	50	24	19.84	20.00	20.09	20.5	1		
20	QPSK	50	50	19.96	20.10	19.94				
20	QPSK	100	0	19.97	19.96	20.04				
20	16QAM	1	0	20.05	20.15	20.25				
20	16QAM	1	49	19.99	20.24	20.29	20.5	1		
20	16QAM	1	99	20.07	20.00	20.22				
20	16QAM	50	0	19.90	19.04	19.09				
20	16QAM	50	24	19.08	19.09	19.20				
20	16QAM	50	50	19.80	19.16	19.10	19.5	2		
20	16QAM	100	0	19.07	19.03	19.04				
20	64QAM	1	0	19.04	19.20	19.81				
20	64QAM	1	49	19.16	19.46	19.38	19.5	2		
20	64QAM	1	99	19.23	19.13	19.32				
20	64QAM	50	0	17.98	18.04	18.01				
20	64QAM	50	24	18.04	17.99	17.97	18.5	3		
20	64QAM	50	50	17.94	18.02	18.08				
20	64QAM	100	0	17.99	18.01	17.90				
Channel				2025	2100	2175				
Frequency (MHz)										
15	QPSK	1	0	20.82	20.89	20.87				
15	QPSK	1	37	20.93	21.09	20.96	21.5	0		
15	QPSK	1	74	20.87	21.06	20.84				
15	QPSK	36	0	20.06	20.13	20.06				
15	QPSK	36	20	20.07	19.99	20.12	20.5	1		
15	QPSK	36	39	20.09	20.14	20.11				
15	QPSK	75	0	20.04	19.99	20.07				
15	16QAM	1	0	20.19	20.21	20.18	20.5	1		
15	16QAM	1	37	20.50	20.42	20.48				
15	16QAM	1	74	20.14	20.17	20.15				
15	16QAM	36	0	19.01	19.01	19.02				
15	16QAM	36	20	19.16	18.94	19.08	19.5	2		
15	16QAM	36	39	19.08	18.97	19.11				
15	16QAM	75	0	19.06	19.13	19.09				
15	64QAM	1	0	18.96	19.32	19.04				
15	64QAM	1	37	19.34	19.27	19.20	19.5	2		
15	64QAM	1	74	19.07	19.36	19.11				
15	64QAM	36	0	18.05	18.06	17.98				
15	64QAM	36	20	18.06	17.98	18.15	18.5	3		
15	64QAM	36	39	17.99	18.03	18.13				
15	64QAM	75	0	18.12	18.05	17.91				
Channel				2080	2100	2140				
Frequency (MHz)										
10	QPSK	1	0	21.01	21.03	20.97				
10	QPSK	1	25	20.98	21.06	21.04	21.5	0		
10	QPSK	1	49	21.07	21.00	20.94				
10	QPSK	25	0	20.09	20.07	20.11				
10	QPSK	25	12	20.10	20.09	20.10	20.5	1		
10	QPSK	25	25	20.14	20.21	19.99				
10	QPSK	50	0	20.12	20.15	20.02				
10	16QAM	1	0	20.48	20.45	20.46	20.5	1		
10	16QAM	1	25	20.44	20.44	20.42				
10	16QAM	1	49	20.41	20.47	19.97				
10	16QAM	25	0	19.00	19.14	19.07				
10	16QAM	25	12	19.09	19.11	19.07	19.5	2		
10	16QAM	25	25	19.13	19.05	19.09				
10	16QAM	50	0	19.20	19.13	18.93				
10	64QAM	1	0	19.17	19.40	19.04				
10	64QAM	1	25	19.07	19.27	19.36	19.5	2		
10	64QAM	1	49	18.97	19.27	19.11				
10	64QAM	25	0	18.01	18.02	18.09				
10	64QAM	25	12	18.13	18.00	18.02	18.5	3		
10	64QAM	25	25	17.92	18.03	18.08				
10	64QAM	50	0	18.03	18.07	18.06				
Channel				2075	2100	2145				
Frequency (MHz)										
5	QPSK	1	0	20.90	21.01	20.77				
5	QPSK	1	12	20.84	21.06	21.09	21.5	0		
5	QPSK	1	24	20.91	20.98	20.97				
5	QPSK	12	0	20.07	20.13	20.07				
5	QPSK	12	7	20.05	20.04	20.04	20.5	1		
5	QPSK	12	13	20.11	20.10	20.05				
5	QPSK	25	0	20.05	20.03	20.08				
5	16QAM	1	0	19.88	20.08	20.31	20.5	1		
5	16QAM	1	12	20.07	20.45	20.47				
5	16QAM	1	24	19.98	20.06	20.39				
5	16QAM	12	0	19.12	19.06	18.94	19.5	2		
5	16QAM	12	7	19.06	19.12	19.07				
5	16QAM	12	13	19.08	18.89	19.04				
5	16QAM	25	0	19.12	19.01	19.05				
5	64QAM	1	0	18.97	19.29	19.25	19.5	2		
5	64QAM	1	12	19.38	19.47	19.19				
5	64QAM	1	24	19.17	19.16	19.29				
5	64QAM	12	0	17.99	18.02	17.98				
5	64QAM	12	7	17.96	18.13	18.14	18.5	3		
5	64QAM	12	13	18.00	18.07	17.88				
5	64QAM	25	0	18.03	18.03	17.97				

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				2300	2305	2330				
Frequency (MHz)										
10	QPSK	1	0	22.47	22.54	22.60				
10	QPSK	1	25	22.89	22.91	22.74	24	0		
10	QPSK	1	49	22.72	22.84	22.73				
10	QPSK	25	0	21.79	21.83	21.80				
10	QPSK	25	12	21.77	21.71	21.76	23	1		
10	QPSK	25	25	21.76	21.68	21.77				
10	QPSK	50	0	21.77	21.79	21.74				
10	16QAM	1	0	21.66	21.99	21.66				
10	16QAM	1	25	21.91	21.87	21.81	23	1		
10	16QAM	1	49	21.81	21.86	21.75				
10	16QAM	25	0	20.73	20.70	20.68				
10	16QAM	25	12	20.69	20.69	20.76				
10	16QAM	25	25	20.77	20.66	20.73	22	2		
10	16QAM	50	0	20.63	20.70	20.82				
10	64QAM	1	0	20.77	20.85	20.86				
10	64QAM	1	25	20.71	20.67	20.68	22	2		
10	64QAM	1	49	20.51	20.90	20.57				
10	64QAM	25	0	19.75	19.75	19.68				
10	64QAM	25	12	19.80	19.67	19.63	21	3		
10	64QAM	25	25	19.70	19.87	19.76				
10	64QAM	50	0	19.69	19.65	19.73				
Channel				2320	2305	2310				
Frequency (MHz)										
5	QPSK	1	0	22.43	22.52	22.44				
5	QPSK	1	12	22.75	22.74	22.67	24	0		
5	QPSK	1	24	22.52	22.58	22.61				
5	QPSK	12	0	21.64	21.66	21.71				
5	QPSK	12	7	21.73	21.69	21.82	23	1		
5	QPSK	12	13	21.73	21.69	21.66				
5	QPSK	25	0	21.75	21.62	21.71				
5	16QAM	1	0	21.39	21.93	21.73	23	1		
5	16QAM	1	12	22.36	22.52	22.31				
5	16QAM	1	24	21.57	21.73	21.93				
5	16QAM	12	0	20.63	20.70	20.84				
5	16QAM	12	7	20.61	20.65	20.69	22	2		
5	16QAM	12	13	20.61	20.56	20.67				
5	16QAM	25	0	20.56	20.64	20.77				
5	16QAM	25	12	20.81	20.62	20.54				
5	64QAM	1	0	20.94	20.95	21.14	22	2		
5	64QAM	1	24	20.54						



Band 14 (700MHz Band)												
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												
Frequency (MHz)												
10	QPSK	1	0	22.54	22.54	22.54	24	0				
10	QPSK	1	25	22.53	22.53	22.53						
10	QPSK	1	49	22.58	22.58	22.58						
10	QPSK	1	73	21.62	21.62	21.62						
10	QPSK	25	0	21.72	21.72	21.72	23	1				
10	QPSK	25	12	21.72	21.72	21.72						
10	QPSK	25	25	21.56	21.56	21.56						
10	QPSK	50	0	21.68	21.68	21.68						
10	16QAM	1	0	22.12	22.12	22.12	23	1				
10	16QAM	1	25	22.26	22.26	22.26						
10	16QAM	1	49	21.60	21.60	21.60						
10	16QAM	25	0	20.77	20.77	20.77						
10	16QAM	25	12	20.73	20.73	20.73	22	2				
10	16QAM	25	25	20.64	20.64	20.64						
10	16QAM	50	0	20.61	20.61	20.61						
10	16QAM	1	0	20.74	20.74	20.74						
10	64QAM	1	25	20.69	20.69	20.69	22	2				
10	64QAM	1	49	20.43	20.43	20.43						
10	64QAM	25	0	19.80	19.80	19.80						
10	64QAM	25	12	19.65	19.65	19.65						
10	64QAM	25	25	19.71	19.71	19.71	21	3				
10	64QAM	50	0	19.65	19.65	19.65						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.48	22.51	22.52	24	0				
5	QPSK	1	12	22.47	22.75	22.69						
5	QPSK	1	24	22.47	22.52	22.52						
5	QPSK	12	0	21.69	21.69	21.69						
5	QPSK	12	7	21.66	21.75	21.75	23	1				
5	QPSK	12	13	21.67	21.59	21.61						
5	QPSK	25	0	21.64	21.70	21.79						
5	16QAM	1	0	21.83	21.87	22.10						
5	16QAM	1	12	21.90	22.21	21.85	23	1				
5	16QAM	1	24	21.85	22.01	21.69						
5	16QAM	12	0	20.61	20.70	20.72						
5	16QAM	12	7	20.76	20.72	20.67						
5	16QAM	12	13	20.68	20.56	20.48	22	2				
5	16QAM	25	0	20.73	20.72	20.61						
5	64QAM	1	0	20.58	20.69	20.67						
5	64QAM	1	12	20.56	20.72	20.92						
5	64QAM	1	24	20.82	20.80	20.53	22	2				
5	64QAM	12	0	19.69	19.65	19.76						
5	64QAM	12	7	19.80	19.79	19.76						
5	64QAM	12	13	19.65	19.76	19.48						
5	64QAM	25	0	19.73	19.60	19.60	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												
Frequency (MHz)												
10	QPSK	1	0	22.57	22.52	22.50	24	0				
10	QPSK	1	25	22.76	22.61	22.79						
10	QPSK	1	49	22.60	22.64	22.64						
10	QPSK	25	0	21.60	21.70	21.74						
10	QPSK	25	12	21.85	21.77	21.73	23	1				
10	QPSK	25	25	21.75	21.72	21.71						
10	QPSK	50	0	21.78	21.86	21.82						
10	16QAM	1	0	21.59	21.93	21.67						
10	16QAM	1	25	22.03	21.86	21.86	23	1				
10	16QAM	1	49	21.76	22.25	21.66						
10	16QAM	25	0	20.83	20.74	20.76						
10	16QAM	25	12	20.89	20.75	20.64						
10	16QAM	25	25	20.68	20.72	20.75	22	2				
10	16QAM	50	0	20.86	20.76	20.72						
10	64QAM	1	0	20.85	20.73	20.74						
10	64QAM	1	25	20.92	20.59	21.00						
10	64QAM	1	49	20.89	20.88	20.90	22	2				
10	64QAM	25	0	19.85	19.68	19.72						
10	64QAM	25	12	19.60	19.65	19.71						
10	64QAM	25	25	19.89	19.88	19.68						
10	64QAM	50	0	19.73	19.79	19.88	21	3				
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.40	22.55	22.48			24	0		
5	QPSK	1	12	22.73	22.76	22.65						
5	QPSK	1	24	22.46	22.49	22.51						
5	QPSK	12	0	21.65	21.65	21.63						
5	QPSK	12	7	21.72	21.81	21.81	23	1				
5	QPSK	12	13	21.62	21.63	21.67						
5	QPSK	25	0	21.67	21.75	21.75						
5	16QAM	1	0	21.70	21.91	21.83						
5	16QAM	1	12	22.08	22.01	22.25	23	1				
5	16QAM	1	24	21.74	21.75	21.86						
5	16QAM	12	0	20.34	20.57	20.64						
5	16QAM	12	7	20.76	20.54	20.72						
5	16QAM	12	13	20.61	20.58	20.71	22	2				
5	16QAM	25	0	20.57	20.64	20.70						
5	64QAM	1	0	20.22	20.73	20.50						
5	64QAM	1	12	20.30	21.00	21.11						
5	64QAM	1	24	20.59	20.70	20.45	22	2				
5	64QAM	12	0	19.60	19.64	19.68						
5	64QAM	12	7	19.72	19.80	19.71						
5	64QAM	12	13	19.58	19.63	19.70						
5	64QAM	25	0	19.73	19.68	19.74	21	3				

Band 25 (1900MHz Band) 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												
Frequency (MHz)												
20	QPSK	1	0	23.99	23.90	23.93	24	0				
20	QPSK	1	49	23.10	23.21	23.16						
20	QPSK	1	99	22.85	22.77	22.88						
20	QPSK	50	0	21.98	22.09	22.08						
20	QPSK	50	24	22.03	22.15	22.11	23	1				
20	QPSK	50	50	22.05	22.00	22.04						
20	QPSK	100	0	22.03	22.09	22.03						
20	16QAM	1	0	21.98	21.97	22.07						
20	16QAM	1	49	22.38	22.74	22.69	23	1				
20	16QAM	1	99	22.35	22.09	21.91						
20	16QAM	50	0	20.90	21.16	21.08						
20	16QAM	50	24	21.05	21.15	21.22						
20	16QAM	50	50	21.07	20.89	20.84	22	2				
20	16QAM	100	0	21.02	20.99	21.05						
20	64QAM	1	0	21.02	21.30	21.11						
20	64QAM	1	49	21.56	21.43	21.61						
20	64QAM	1	99	20.82	20.93	21.26	22	2				
20	64QAM	50	0	20.00	20.12	20.06						
20	64QAM	50	24	20.01	20.13	20.23						
20	64QAM	50	50	20.13	19.85	20.22						
20	64QAM	100	0	20.14	19.96	20.03	21	3				
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.00	23.02	23.01			24	0		
15	QPSK	1	37	23.09	23.19	23.17						
15	QPSK	1	74	22.92	22.82	23.01						
15	QPSK	36	0	22.02	22.15	22.20						
15	QPSK	36	20	22.08	22.07	22.25	23	1				
15	QPSK	36	39	22.14	22.05	22.24						
15	QPSK	75	0	22.09	22.07	22.08						
15	16QAM	1	0	22.49	22.25	22.17						
15	16QAM	1	37	22.58	22.32	22.29	23	1				
15	16QAM	1	74	22.40	22.52	22.33						
15	16QAM	36	0	21.01	21.04	21.24						
15	16QAM	36	20	21.01	21.10	21.14						
15	16QAM	36	39	21.10	21.02	21.17	22	2				
15	16QAM	75	0	21.18	21.02	21.11						
15	64QAM	1	0	21.07	21.43	21.18						
15	64QAM	1	37	21.56	21.67	21.60						
15	64QAM	1	74	21.00	20.98	21.60	22	2				
15	64QAM	36	0	20.07	20.10	20.13						
15	64QAM	36	20	20.13	20.15	20.11						
15	64QAM	36	39	20.16	20.03	20.11						
15	64QAM	75	0	20.02	20.02	20.28	21	3				
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.05	23.04	23.05			24	0		
10	QPSK	1	25	23.14	23.05	23.17						
10	QPSK	1	49	22.99	22.89	23.12						
10	QPSK	25	0	22.16	22.20	22.27						
10	QPSK	25	12	22.11	22.12	22.25	23	1				
10	QPSK	25	25	22.18	22.09	22.14						
10	QPSK	50	0	22.17	22.06	22.25						
10	16QAM	1	0	22.19	22.66	22.21						
10	16QAM	1	25	22.29	22.64	22.51	23	1				
10	16QAM	1	49	21.95	22.50	22.35						
10	16QAM	25	0	21.08	21.27	21.30						
10	16QAM	25	12	21.12	21.08	21.33						
10	16QAM	25	25	21.18	21.06	21.29	22	2				
10	16QAM	50	0	21.15	21.06	21.30						
10	64QAM	1	0	21.43	21.44	21.51						
10	64QAM	1	25	21.71	21.34	21.54						



Band 26 for FCC (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									
Frequency (MHz)									
15	QPSK	1	0	22.60	22.67	22.75	24	0	
15	QPSK	1	74	22.79	22.86	22.94			
15	QPSK	1	74	22.73	22.80	22.87			
15	QPSK	36	0	21.84	21.92	21.86	23	1	
15	QPSK	36	20	21.87	21.93	21.83			
15	QPSK	36	39	21.92	21.79	21.85			
15	QPSK	75	0	21.83	21.88	21.87	23	1	
15	16QAM	1	0	22.08	22.14	21.80			
15	16QAM	1	37	22.12	22.18	22.24			
15	16QAM	1	74	22.29	22.35	22.04	22	2	
15	16QAM	36	0	20.78	20.79	20.88			
15	16QAM	36	20	20.78	20.82	20.91			
15	16QAM	36	39	20.75	20.76	20.77	22	2	
15	16QAM	75	0	20.82	20.83	20.98			
15	64QAM	1	0	20.96	20.88	20.98			
15	64QAM	1	37	21.11	21.15	21.03	22	2	
15	64QAM	1	74	21.05	20.82	20.71			
15	64QAM	36	0	19.75	19.77	19.97			
15	64QAM	36	20	19.69	19.87	19.79	21	3	
15	64QAM	36	39	19.79	19.76	19.81			
15	64QAM	75	0	19.86	19.79	19.91			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.67	22.63	22.67	24	0	
10	QPSK	1	25	22.77	22.77	22.84			
10	QPSK	1	49	22.71	22.75	22.84			
10	QPSK	25	0	21.88	21.77	21.88	23	1	
10	QPSK	25	12	21.82	21.94	21.91			
10	QPSK	25	25	21.71	21.99	21.92			
10	QPSK	50	0	21.67	21.94	21.96	23	1	
10	16QAM	1	0	22.15	22.23	21.86			
10	16QAM	1	74	22.15	22.14	22.48			
10	16QAM	1	49	21.89	22.13	21.74	22	2	
10	16QAM	25	0	20.82	20.81	21.00			
10	16QAM	25	12	20.87	20.91	20.95			
10	16QAM	25	25	20.64	20.93	20.93	22	2	
10	16QAM	50	0	20.69	20.82	20.84			
10	64QAM	1	0	20.46	20.89	20.97			
10	64QAM	1	25	21.02	20.99	21.46	22	2	
10	64QAM	1	49	20.90	20.81	20.64			
10	64QAM	25	0	19.86	19.76	20.02			
10	64QAM	25	12	19.87	19.92	19.88	21	3	
10	64QAM	25	25	19.71	19.89	19.76			
10	64QAM	50	0	19.83	19.77	19.89			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.55	22.63	22.75	24	0	
5	QPSK	1	24	22.63	22.63	22.74			
5	QPSK	12	0	21.60	21.70	21.77			
5	QPSK	12	7	21.86	21.87	21.84	23	1	
5	QPSK	12	13	21.73	21.87	21.78			
5	QPSK	25	0	21.66	21.82	21.89			
5	16QAM	1	0	22.07	21.68	21.93	23	1	
5	16QAM	1	12	21.68	22.01	21.86			
5	16QAM	1	24	21.87	21.79	21.67			
5	16QAM	12	0	20.66	20.77	20.79	22	2	
5	16QAM	12	7	20.72	20.85	20.83			
5	16QAM	12	13	20.59	20.92	20.74			
5	16QAM	25	0	20.63	20.84	20.79	22	2	
5	64QAM	1	0	20.73	20.79	21.05			
5	64QAM	1	12	21.35	20.98	21.03			
5	64QAM	1	24	20.83	20.89	20.84	22	2	
5	64QAM	12	0	19.69	19.83	19.85			
5	64QAM	12	7	19.82	19.87	19.82			
5	64QAM	12	13	19.66	19.81	19.84	21	3	
5	64QAM	25	0	19.59	19.85	19.69			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.66	22.70	22.83	24	0	
3	QPSK	1	8	22.70	22.63	22.74			
3	QPSK	1	14	22.77	22.71	22.67			
3	QPSK	8	0	21.72	21.77	21.93	23	1	
3	QPSK	8	4	21.75	21.86	21.82			
3	QPSK	8	7	21.74	21.76	21.97			
3	16QAM	1	0	21.73	21.81	21.97	23	1	
3	16QAM	1	0	22.01	22.09	22.15			
3	16QAM	1	8	22.12	22.29	22.10			
3	16QAM	1	14	21.79	22.14	22.13	23	1	
3	16QAM	8	0	20.68	20.88	20.77			
3	16QAM	8	4	20.71	20.85	20.71			
3	16QAM	8	7	20.73	20.86	20.67	22	2	
3	16QAM	15	0	20.64	20.89	20.74			
3	64QAM	1	0	20.89	20.52	20.86			
3	64QAM	1	8	20.78	20.89	20.73	22	2	
3	64QAM	1	14	21.08	20.88	20.78			
3	64QAM	8	0	19.71	19.78	19.84			
3	64QAM	8	4	19.81	19.90	19.94	21	3	
3	64QAM	8	7	19.81	19.71	19.73			
3	64QAM	15	0	19.83	19.86	19.87			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.69	22.65	22.63	24	0	
1.4	QPSK	1	3	22.67	22.68	22.77			
1.4	QPSK	1	5	22.62	22.72	22.69			
1.4	QPSK	3	0	22.78	22.74	22.75	23	1	
1.4	QPSK	3	1	22.83	22.80	23.00			
1.4	QPSK	3	3	22.70	22.75	22.72			
1.4	QPSK	6	0	21.76	21.88	21.81	23	1	
1.4	16QAM	1	0	21.92	21.83	21.73			
1.4	16QAM	1	3	21.71	21.99	21.93			
1.4	16QAM	1	5	22.10	22.14	22.02	23	1	
1.4	16QAM	3	0	21.59	21.85	21.75			
1.4	16QAM	3	1	21.74	21.65	21.76			
1.4	16QAM	3	3	21.78	21.87	21.75	22	2	
1.4	16QAM	6	0	20.79	20.89	20.84			
1.4	64QAM	1	0	20.43	21.03	20.49			
1.4	64QAM	1	3	21.02	20.80	20.97	22	2	
1.4	64QAM	1	5	20.87	21.05	20.83			
1.4	64QAM	3	0	20.90	21.11	20.83			
1.4	64QAM	3	1	20.83	21.01	20.86	22	2	
1.4	64QAM	3	3	20.75	21.00	20.91			
1.4	64QAM	6	0	19.86	19.77	19.74			

Band 66									
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									
Frequency (MHz)									
20	QPSK	1	0	22.44	22.58	22.56	24	0	
20	QPSK	1	49	22.86	22.75	22.83			
20	QPSK	1	99	22.48	22.38	22.45			
20	QPSK	50	0	21.84	21.75	21.83	23	1	
20	QPSK	50	24	21.83	21.75	21.79			
20	QPSK	50	50	21.77	21.75	21.68			
20	QPSK	100	0	21.78	21.73	21.77	23	1	
20	16QAM	1	0	21.87	21.82	21.77			
20	16QAM	1	49	22.13	21.99	22.06			
20	16QAM	1	99	21.76	21.80	21.82	22	2	
20	16QAM	50	0	20.83	20.74	20.83			
20	16QAM	50	24	20.84	20.75	20.76			
20	16QAM	50	50	20.78	20.73	20.67	22	2	
20	16QAM	100	0	20.77	20.71	20.75			
20	64QAM	1	0	20.77	20.79	20.89			
20	64QAM	1	49	21.01	20.95	20.98	22	2	
20	64QAM	1	99	20.65	20.60	20.54			
20	64QAM	50	0	19.81	19.74	19.84			
20	64QAM	50	24	19.82	19.75	19.77	21	3	
20	64QAM	50	50	19.84	19.75	19.88			
20	64QAM	100	0	19.78	19.74	19.75			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.62	22.62	22.64	24	0	
15	QPSK	1	37	22.85	22.77	22.84			
15	QPSK	1	74	22.50	22.46	22.51			
15	QPSK	36	0	21.84	21.72	21.82	23	1	
15	QPSK	36	20	21.79	21.72	21.79			
15	QPSK	36	39	21.78	21.71	21.66			
15	QPSK	75	0	21.76	21.72	21.74	23	1	
15	16QAM	1	0	22.14	21.89	21.88			
15	16QAM	1	37	22.15	22.07	22.11			
15	16QAM	1	74	21.80	21.76	21.72	22	2	
15	16QAM	36	0	20.80	20.68	20.77			
15	16QAM	36	20	20.80	20.69	20.78			
15	16QAM	36	39	20.75	20.68	20.64	22	2	
15	16QAM	75	0	20.81	20.72	20.69			
15	64QAM	1	0	20.81	20.78	20.78			
15	64QAM	1	37	21.03	20.93	21.04	22	2	
15	64QAM	1	74	20.72	20.62	20.62			
15	64QAM	36	0	19.83	19.74				



Band 41 (2.6G Band) Class 3												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39750	40185	40600	41055	41490				
20	QPSK	1	0	22.06	22.15	22.08	22.11	22.09		23	0	
20	QPSK	1	49	22.22	22.2	22.35	22.25	22.23				
20	QPSK	1	99	22.22	22.13	22.13	22.13	22.05				
20	QPSK	50	0	21.26	21.27	21.28	21.26	21.13				
20	QPSK	50	24	21.26	21.27	21.27	21.24	21.11				
20	QPSK	50	50	21.25	21.25	21.24	21.21	21.12		22	1	
20	QPSK	100	0	21.22	21.2	21.23	21.19	21.21				
20	16QAM	1	0	21.29	21.23	21.24	21.06	21.03				
20	16QAM	1	49	21.37	21.37	21.42	21.37	21.25		22	1	
20	16QAM	1	99	21.19	21.24	21.2	21.26	21.13				
20	16QAM	50	0	20.42	20.29	20.16	20.34	20.11				
20	16QAM	50	24	20.37	20.26	20.22	20.3	20.29				
20	16QAM	50	50	20.37	20.27	20.14	20.22	20.25		21	2	
20	16QAM	100	0	20.27	20.25	20.15	20.25	20.3				
20	64QAM	1	0	19.91	19.94	19.96	19.93	19.95				
20	64QAM	1	49	20.04	20.18	20.32	20.13	20.14		21	2	
20	64QAM	1	99	19.91	19.93	19.98	20	19.93				
20	64QAM	50	0	19.32	19.16	19.14	19.22	19.04				
20	64QAM	50	24	19.28	19.22	19.16	19.24	19.19				
20	64QAM	50	50	19.32	19.22	19.2	19.06	19.3		20	3	
20	64QAM	100	0	19.21	19.19	19.14	19.25	19.27				
Channel												
Frequency (MHz)				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	22.32	22.16	22.17	22.13	22.08		23	0	
15	QPSK	1	37	22.32	22.25	22.23	22.31	22.3				
15	16QAM	1	74	21.24	21.12	21.24	22.17	22.18				
15	QPSK	36	0	21.37	21.3	21.21	21.19	21.15				
15	QPSK	36	20	21.24	21.25	21.17	21.24	21.11		22	1	
15	QPSK	36	39	21.33	21.26	21.22	21.26	21.17				
15	QPSK	75	0	21.28	21.17	21.21	21.22	21.13				
15	16QAM	1	0	21.27	21.22	21.14	21.17	21.21				
15	16QAM	1	37	21.38	21.33	21.31	21.33	21.22		22	1	
15	16QAM	1	74	21.34	21.26	21.25	22.17	22.18				
15	16QAM	36	0	20.29	20.17	20.13	20.08	20.23				
15	16QAM	36	20	20.29	20.19	20.09	20.13	20.21		21	2	
15	16QAM	36	39	20.2	20.17	20.14	20.18	20.19				
15	16QAM	75	0	20.28	20.23	20.16	20.21	20.23				
15	64QAM	1	0	20.04	20.04	20.01	19.93	19.85				
15	64QAM	1	37	20.16	20.11	20.21	20.13	20.12		21	2	
15	64QAM	1	74	20.06	20.08	20.06	19.98	20.01				
15	64QAM	36	0	19.33	19.23	19.13	19.17	19.07				
15	64QAM	36	20	19.22	19.19	19.19	19.17	19.16		20	3	
15	64QAM	36	39	19.27	19.19	19.12	19.23	19.27				
15	64QAM	75	0	19.26	19.25	19.18	19.24	19.25				
Channel												
Frequency (MHz)				39700	40160	40600	41080	41540				
10	QPSK	1	0	22.01	22.17	22.23	22.21	22.16		23	0	
10	QPSK	1	25	22.22	22.08	22.01	22.16	22.16				
10	QPSK	1	49	22.32	22.28	22.18	22.25	22.19				
10	QPSK	25	0	21.35	21.23	21.18	21.23	21.31				
10	QPSK	25	12	21.38	21.22	21.28	21.22	21.28		22	1	
10	QPSK	25	25	21.33	21.20	21.25	21.22	21.12				
10	QPSK	50	0	21.35	21.17	21.22	21.28	21.23				
10	16QAM	1	0	21.31	21.26	21.28	21.22	21.31				
10	16QAM	1	25	21.32	21.11	21.15	21.15	21.08		22	1	
10	16QAM	1	49	21.28	21.19	21.22	21.18	21.30				
10	16QAM	25	0	20.42	20.30	20.37	20.23	20.32				
10	16QAM	25	12	20.34	20.34	20.19	20.32	20.35		21	2	
10	16QAM	25	25	20.29	20.21	20.24	20.38	20.29				
10	16QAM	50	0	20.49	20.24	20.25	20.23	20.26				
10	64QAM	1	0	20.11	20.07	19.98	19.98	20.07				
10	64QAM	1	25	20.02	19.93	19.99	19.99	19.95		21	2	
10	64QAM	1	49	20.07	20.01	20.09	20.09	20.08				
10	64QAM	25	0	19.39	19.37	19.29	19.36	19.32				
10	64QAM	25	12	19.34	19.34	19.33	19.31	19.31		20	3	
10	64QAM	25	25	19.38	19.19	19.27	19.33	19.28				
10	64QAM	50	0	19.31	19.28	19.25	19.20	19.23				
Channel												
Frequency (MHz)				39675	40166	40600	41080	41580				
Frequency (MHz)				2491.5	2545.8	2593	2640.30	2687.5				
5	QPSK	1	0	22.20	22.09	22.18	22.17	22.22		23	0	
5	QPSK	1	12	22.22	22.32	22.22	22.30	22.28				
5	QPSK	1	24	22.32	22.20	22.11	22.14	22.17				
5	QPSK	12	0	21.30	21.17	21.22	21.27	21.20				
5	QPSK	12	7	21.38	21.35	21.23	21.35	21.25		22	1	
5	QPSK	12	15	21.40	21.23	21.28	21.23	21.24				
5	16QAM	25	0	21.27	21.28	21.18	21.29	21.15				
5	16QAM	1	0	21.38	21.18	21.16	21.26	21.20				
5	16QAM	1	12	21.42	21.38	21.35	21.44	21.35		22	1	
5	16QAM	1	24	21.33	21.25	21.22	21.27	21.22				
5	16QAM	12	0	20.33	20.12	20.14	20.18	20.24				
5	16QAM	12	7	20.38	20.15	20.17	20.22	20.21		21	2	
5	16QAM	12	15	20.27	20.14	20.09	20.25	20.27				
5	16QAM	25	0	20.39	20.27	20.21	20.22	20.36				
5	64QAM	1	0	20.16	20.09	20.16	20.01	20.14				
5	64QAM	1	12	20.18	20.15	20.25	20.24	20.27		21	2	
5	64QAM	1	24	20.17	20.02	20.07	20.03	20.14				
5	64QAM	12	0	19.29	19.26	19.18	19.18	19.32				
5	64QAM	12	7	19.31	19.24	19.15	19.34	19.36		20	3	
5	64QAM	12	15	19.29	19.20	19.19	19.27	19.30				
5	64QAM	25	0	19.38	19.30	19.25	19.25	19.20				

Band 41 (2.6G Band) HPUE											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40600	41055	41490			
20	QPSK	1	0	24.07	24.16	23.97	23.96	23.94		25	0
20	QPSK	1	49	24.17	24.11	24.23	23.98	24.05			
20	QPSK	1	99	24.02	24.06	24.02	23.96	23.99			
20	QPSK	50	0	23.13	23.21	23.26	23.09	23.23			
20	QPSK	50	24	23.15	23.12	23.12	23.06	23.12			
20	QPSK	50	50	23.16	23.14	23.12	23.11	23.14		24	1
20	QPSK	100	0	23.08	23.11	23.12	23.07	23.07			
20	16QAM	1	0	23.35	23.52	23.39	23.19	23.2			
20	16QAM	1	49	23.41	23.51	23.36	23.2	23.23		24	1
20	16QAM	1	99	23.2	23.47	23.22	23.1	23.22			
20	16QAM	50	0	22.19	22.26	22.16	22.15	22.13			
20	16QAM	50	24	22.17	22.26	22.18	22.08	22.23			
20	16QAM	50	50	22.21	22.3	22.13	22.18	22.18		23	2
20	16QAM	100	0	22.18	22.34	22.13	22.14	22.13			
20	64QAM	1	0	22.13	22.29	22.08	22.07	22.05			
20	64QAM	1	49	22.23	22.38	22.14	22.08	22.18		23	2
20	64QAM	1	99	22.06	22.24	22.08	21.98	22.15			



Receive off for Hotspot on/Body-worn_LAT

GSM900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.69	32.65	32.57	33.20	23.69	23.65	23.57	24.20
GPRS 1 Tx slot	32.67	32.64	32.55	33.20	23.67	23.64	23.55	24.20
GPRS 2 Tx slots	30.61	30.55	30.44	31.00	24.61	24.55	24.44	25.00
GPRS 3 Tx slots	28.59	28.49	28.36	29.00	24.33	24.23	24.10	24.74
GPRS 4 Tx slots	27.54	27.45	27.30	28.00	24.54	24.45	24.30	25.00
EDGE 1 Tx slot	27.13	27.22	27.10	28.00	18.13	18.22	18.10	19.00
EDGE 2 Tx slots	25.96	26.09	25.94	27.00	19.96	20.09	19.94	21.00
EDGE 3 Tx slots	23.70	23.83	23.59	23.00	19.44	19.57	19.33	20.74
EDGE 4 Tx slots	22.42	22.52	22.41	24.00	19.42	19.52	19.41	21.00

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1825.2	1837	1849.8		1825.2	1837	1849.8	
Frequency (MHz)	1825.2	1837	1849.8		1825.2	1837	1849.8	
GSM 1 Tx slot	30.16	30.21	30.22	30.30	21.16	21.21	21.22	21.30
GPRS 1 Tx slot	30.14	30.19	30.20	30.30	21.14	21.19	21.20	21.30
GPRS 2 Tx slots	27.75	27.76	27.82	28.00	21.75	21.76	21.82	22.00
GPRS 3 Tx slot	25.63	25.69	25.76	26.00	21.37	21.43	21.50	21.74
GPRS 4 Tx slots	24.57	24.62	24.67	25.00	21.57	21.62	21.67	22.00
EDGE 1 Tx slot	26.83	26.84	26.79	27.00	17.83	17.84	17.79	18.00
EDGE 2 Tx slots	25.79	25.72	25.74	26.00	19.79	19.72	19.74	20.00
EDGE 3 Tx slots	23.57	23.56	23.49	24.00	19.31	19.32	19.23	19.74
EDGE 4 Tx slots	22.28	22.20	22.27	23.00	19.28	19.20	19.27	20.00

Band	WCDMA 8			Tune-up Limit (dBm)	WCDMA 4			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9662	9600	9938		1537	1638	1738		4367	4407	4458		
Rx Channel	9662	9600	9938		1537	1638	1738		4367	4407	4458		
Frequency (MHz)	1922.4	1900	1937.6		162.4	162.3	162.3		806.4	806.4	806.6		
3GPP Rel 99	AMR 12.2kops	23.39	23.50	23.59	24.00	21.97	21.94	22.02	23.00	22.95	23.11	23.16	24.00
3GPP Rel 99	RMC 12.2kops	23.42	23.51	23.64	24.00	21.99	22.01	22.06	23.00	23.10	23.14	23.20	24.00
3GPP Rel 6	HSDPA Subtest-1	22.43	22.54	22.60	23.00	21.03	21.05	21.11	22.00	22.17	22.20	22.31	23.00
3GPP Rel 6	HSDPA Subtest-2	22.36	22.38	22.47	23.00	20.86	20.97	21.01	22.00	22.14	22.13	22.16	23.00
3GPP Rel 6	HSDPA Subtest-3	21.78	21.88	21.96	22.50	20.34	20.50	20.55	21.50	21.65	21.63	21.65	22.50
3GPP Rel 6	HSDPA Subtest-4	21.84	21.84	21.91	22.50	20.58	20.51	20.63	21.50	21.63	21.58	21.65	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.19	22.39	22.45	23.00	20.83	20.79	20.91	22.00	22.04	22.03	22.12	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.10	22.10	22.31	23.00	20.68	20.68	21.00	22.00	21.93	21.89	22.00	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.48	21.63	21.84	22.50	20.21	20.15	20.45	21.50	21.40	21.47	21.52	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.57	21.66	21.67	22.50	20.44	20.16	20.38	21.50	21.40	21.49	21.38	22.50
3GPP Rel 6	HSUPA Subtest-1	20.43	20.56	20.66	22.00	19.01	19.07	19.13	21.00	20.20	20.25	20.27	23.00
3GPP Rel 6	HSUPA Subtest-2	20.50	20.61	20.60	21.00	18.97	18.95	19.08	19.50	20.20	20.23	20.21	21.00
3GPP Rel 6	HSUPA Subtest-3	21.44	21.51	21.65	22.00	19.94	19.94	20.11	20.50	21.14	21.21	21.23	22.00
3GPP Rel 6	HSUPA Subtest-4	19.94	20.06	20.18	21.00	18.56	18.58	18.64	19.50	19.63	19.74	19.78	21.00
3GPP Rel 6	HSUPA Subtest-5	21.30	21.40	21.49	23.00	19.66	20.12	20.08	21.50	21.20	21.10	21.20	23.00



Band 2 (1900MHz Band)										
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										
Frequency (MHz)										
20	QPSK	1	0	23.01	23.87	23.93			24	0
20	QPSK	1	49	23.11	23.12	23.97				
20	QPSK	1	99	22.83	22.85	23.05				
20	QPSK	50	0	22.08	22.11	22.14				
20	QPSK	50	24	22.18	22.19	22.19				
20	QPSK	50	50	22.11	21.98	22.05			23	1
20	QPSK	100	0	22.11	22.16	22.13				
20	16QAM	1	0	22.18	22.57	21.95				
20	16QAM	1	49	22.28	22.46	22.12			23	1
20	16QAM	1	99	22.17	22.12	22.22				
20	16QAM	50	0	20.89	21.12	21.23				
20	16QAM	50	24	21.08	21.14	21.16				
20	16QAM	50	50	21.11	20.98	21.03			22	2
20	16QAM	100	0	21.11	21.04	21.08				
20	64QAM	1	0	21.33	21.28	21.07				
20	64QAM	1	49	21.41	21.03	21.45			22	2
20	64QAM	1	99	21.15	21.11	21.28				
20	64QAM	50	0	20.03	20.07	20.12				
20	64QAM	50	24	20.26	20.03	20.23				
20	64QAM	50	50	20.28	20.02	20.20			21	3
20	64QAM	100	0	20.17	20.04	20.06				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.01	22.94	23.11			24	0
15	QPSK	1	37	23.06	23.04	23.11				
15	QPSK	1	74	22.96	22.97	23.09				
15	QPSK	36	0	22.09	22.12	22.19				
15	QPSK	36	20	22.17	22.06	22.19				
15	QPSK	36	39	22.14	22.03	22.11			23	1
15	QPSK	75	0	22.11	22.11	22.15				
15	16QAM	1	0	22.43	22.41	22.38				
15	16QAM	1	37	22.16	22.28	22.79			23	1
15	16QAM	1	74	22.44	22.38	22.42				
15	16QAM	36	0	21.11	21.13	21.23				
15	16QAM	36	20	21.11	21.09	21.27				
15	16QAM	36	39	21.15	21.11	21.08			22	2
15	16QAM	75	0	21.11	21.07	21.08				
15	64QAM	1	0	21.38	21.22	21.14				
15	64QAM	1	37	21.33	21.4	21.08			22	2
15	64QAM	1	74	21.27	20.96	20.86				
15	64QAM	36	0	20.13	20.04	20.13				
15	64QAM	36	20	20.16	20.02	20.11				
15	64QAM	36	39	20.15	20.08	20.08			21	3
15	64QAM	75	0	20.07	20.03	20.05				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.05	23.07	23.09			24	0
10	QPSK	1	25	23.10	23.06	23.08				
10	QPSK	1	49	22.99	22.93	23.06				
10	QPSK	25	0	22.11	22.18	22.19				
10	QPSK	25	12	22.14	22.21	22.21			23	1
10	QPSK	25	25	22.20	22.03	22.18				
10	QPSK	50	0	22.07	22.08	22.14				
10	16QAM	1	0	22.23	22.27	22.49				
10	16QAM	1	25	22.35	22.50	22.62			23	1
10	16QAM	1	49	22.08	22.40	22.03				
10	16QAM	25	0	21.14	21.21	21.12				
10	16QAM	25	12	21.14	21.16	21.21			22	2
10	16QAM	25	25	21.21	21.11	21.15				
10	16QAM	50	0	21.17	21.15	21.20				
10	64QAM	1	0	21.11	20.84	20.90				
10	64QAM	1	25	21.29	21.26	21.24			22	2
10	64QAM	1	49	21.05	20.78	20.91				
10	64QAM	25	0	20.18	20.27	20.18				
10	64QAM	25	12	20.11	20.17	20.12				
10	64QAM	25	25	20.28	20.11	20.12			21	3
10	64QAM	50	0	20.09	19.99	20.11				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.03	23.00	23.03			24	0
5	QPSK	1	12	23.06	23.01	23.06				
5	QPSK	1	24	23.05	23.00	23.11				
5	QPSK	12	0	22.13	22.14	22.21				
5	QPSK	12	7	22.11	22.11	22.16			23	1
5	QPSK	12	13	22.09	22.16	22.16				
5	QPSK	25	0	22.02	22.11	22.10				
5	16QAM	1	0	21.93	22.09	22.11				
5	16QAM	1	12	22.46	22.22	22.28			23	1
5	16QAM	1	24	22.18	22.07	22.61				
5	16QAM	12	0	21.07	21.13	21.27				
5	16QAM	12	7	21.20	21.10	21.20				
5	16QAM	12	13	21.05	21.00	21.19			22	2
5	16QAM	25	0	21.13	21.08	21.16				
5	64QAM	1	0	21.29	20.96	21.27				
5	64QAM	1	12	21.24	21.06	21.28			22	2
5	64QAM	1	24	21.35	21.18	21.15				
5	64QAM	12	0	19.97	20.14	20.30				
5	64QAM	12	7	20.16	20.19	20.18			21	3
5	64QAM	12	13	20.11	20.04	20.18				
5	64QAM	25	0	20.05	20.07	20.22				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.10	23.11	23.10			24	0
3	QPSK	1	8	23.04	23.02	23.02				
3	QPSK	1	14	22.98	23.05	23.07				
3	QPSK	8	0	21.99	21.98	22.16				
3	QPSK	8	4	22.13	22.13	22.13			23	1
3	QPSK	8	7	22.00	22.02	22.12				
3	QPSK	15	0	22.06	22.11	22.18				
3	16QAM	1	0	21.92	22.00	22.21				
3	16QAM	1	8	22.43	22.05	22.04			23	1
3	16QAM	1	14	22.27	21.96	22.26				
3	16QAM	8	0	21.07	21.03	21.31				
3	16QAM	8	4	21.15	21.13	21.22			22	2
3	16QAM	8	7	20.99	21.06	21.23				
3	16QAM	15	0	21.01	21.06	21.14				
3	64QAM	1	0	20.97	20.99	21.29				
3	64QAM	1	8	21.21	21.13	21.32			22	2
3	64QAM	1	14	21.25	21.00	21.16				
3	64QAM	8	0	20.08	20.26	20.14				
3	64QAM	8	4	20.02	20.11	20.23			21	3
3	64QAM	8	7	20.13	20.02	20.17				
3	64QAM	15	0	19.97	20.07	20.21				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.98	23.03	23.09			24	0
1.4	QPSK	1	3	23.08	22.97	23.11				
1.4	QPSK	1	5	23.05	23.05	23.09				
1.4	QPSK	3	0	23.03	23.03	23.09				
1.4	QPSK	3	1	22.97	23.04	23.08				
1.4	QPSK	3	3	23.01	23.06	23.06				
1.4	QPSK	6	0	22.08	22.11	22.17			23	1
1.4	16QAM	1	0	22.33	22.10	22.29				
1.4	16QAM	1	3	22.38	22.40	22.53				
1.4	16QAM	1	5	22.25	22.20	22.42			23	1
1.4	16QAM	3	0	21.98	22.02	22.24				
1.4	16QAM	3	1	22.18	22.10	22.05				
1.4	16QAM	3	1	20.97	21.91	22.21			22	2
1.4	16QAM	6	0	21.33	21.20	21.26				
1.4	64QAM	1	0	21.32	20.99	21.04				
1.4	64QAM	1	3	21.38	21.04	21.11				
1.4	64QAM	1	5	21.31	21.01	21.31			22	2
1.4	64QAM	3	0	21.26	20.84	21.29				
1.4	64QAM	3	1	21.27	21.23	20.97				
1.4	64QAM	3	1	21.34	21.14	21.29				
1.4	64QAM	6	0	20.01	20.03	20.13			21	3

Band 4 (AWS Band)										
Part 27L (only on channel required)										
BW [MHz]										



Band 7 (2600MHz Band)										
Part 27										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20850	21100	21350				
Frequency (MHz)										
20	QPSK	1	0	20.90	20.92	20.83	21.5	0		
20	QPSK	1	49	21.03	21.06	21.10				
20	QPSK	1	99	20.93	20.91	20.95				
20	QPSK	50	0	20.02	20.07	20.07	20.5	1		
20	QPSK	50	24	19.94	20.00	20.09				
20	QPSK	50	50	19.96	20.10	19.94				
20	QPSK	100	0	19.97	19.96	20.04	20.5	1		
20	16QAM	1	0	20.05	20.15	20.25				
20	16QAM	1	49	19.99	20.24	20.29				
20	16QAM	1	99	20.07	20.05	20.22	19.5	2		
20	16QAM	50	0	19.99	19.94	19.99				
20	16QAM	50	24	19.08	19.00	19.20				
20	16QAM	50	50	18.90	19.16	19.10	19.5	2		
20	16QAM	100	0	19.07	19.03	19.04				
20	64QAM	1	0	19.04	19.20	19.11				
20	64QAM	1	49	19.16	19.46	19.38	19.5	2		
20	64QAM	1	99	19.23	19.13	19.32				
20	64QAM	50	0	17.98	18.04	18.01				
20	64QAM	50	24	18.04	17.99	17.97	18.5	3		
20	64QAM	50	50	17.94	18.02	18.08				
20	64QAM	100	0	17.99	18.01	17.90				
Channel				20925	21100	21375	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
15	QPSK	1	0	20.82	20.80	20.87	21.5	0		
15	QPSK	1	37	20.93	21.09	20.96				
15	QPSK	1	74	20.87	21.06	20.94				
15	QPSK	36	0	20.06	20.13	20.06	20.5	1		
15	QPSK	36	20	20.07	19.99	20.12				
15	QPSK	36	39	20.09	20.14	20.11				
15	QPSK	75	0	20.04	19.99	20.07	20.5	1		
15	16QAM	1	0	20.19	20.21	20.18				
15	16QAM	1	37	20.30	20.42	20.48				
15	16QAM	1	74	20.14	20.17	20.16	19.5	2		
15	16QAM	36	0	19.01	19.01	19.02				
15	16QAM	36	20	19.16	18.94	19.08				
15	16QAM	36	39	19.08	18.97	19.11	19.5	2		
15	16QAM	75	0	19.06	19.13	19.09				
15	64QAM	1	0	18.96	19.32	19.04				
15	64QAM	1	37	19.34	19.27	19.20	19.5	2		
15	64QAM	1	74	19.07	19.36	19.11				
15	64QAM	36	0	18.05	18.05	17.98				
15	64QAM	36	20	18.05	18.05	18.16	18.5	3		
15	64QAM	36	39	17.89	18.03	18.13				
15	64QAM	75	0	18.12	18.05	17.91				
Channel				20900	21100	21400	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	21.01	21.03	20.97	21.5	0		
10	QPSK	1	25	20.98	21.06	21.04				
10	QPSK	1	49	21.07	21.00	20.94				
10	QPSK	25	0	20.09	20.07	20.11	20.5	1		
10	QPSK	25	12	20.10	20.09	20.10				
10	QPSK	25	25	20.14	20.21	19.99				
10	QPSK	50	0	20.12	20.15	20.02	20.5	1		
10	16QAM	1	0	20.11	20.10	20.46				
10	16QAM	1	25	20.44	20.44	20.42				
10	16QAM	1	49	20.41	20.47	19.97	20.5	1		
10	16QAM	25	0	19.00	19.14	19.07				
10	16QAM	25	12	19.09	19.11	19.07				
10	16QAM	25	25	19.13	19.05	19.09	19.5	2		
10	16QAM	50	0	19.20	19.13	18.93				
10	64QAM	1	0	19.17	19.40	19.04				
10	64QAM	1	25	19.07	19.27	19.36	19.5	2		
10	64QAM	1	49	19.97	19.97	19.11				
10	64QAM	25	0	18.01	18.02	18.08				
10	64QAM	25	12	18.13	18.00	18.02	18.5	3		
10	64QAM	25	25	17.82	18.03	18.08				
10	64QAM	50	0	18.03	18.07	18.06				
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
5	QPSK	1	0	20.90	21.01	20.77	21.5	0		
5	QPSK	1	12	20.84	21.06	21.09				
5	QPSK	1	24	20.91	20.98	20.97				
5	QPSK	12	0	20.07	20.13	20.07	20.5	1		
5	QPSK	12	7	20.05	20.04	20.04				
5	QPSK	12	13	20.11	20.10	20.05				
5	QPSK	25	0	20.05	20.03	20.08	20.5	1		
5	16QAM	1	0	19.88	20.08	20.31				
5	16QAM	1	12	20.07	20.45	20.47				
5	16QAM	1	24	19.88	20.06	20.39	19.5	2		
5	16QAM	12	0	19.12	19.06	19.94				
5	16QAM	12	7	19.06	19.12	19.07				
5	16QAM	12	13	19.08	18.89	19.04	19.5	2		
5	16QAM	25	0	19.12	19.01	19.05				
5	64QAM	1	0	18.97	19.29	19.25				
5	64QAM	1	12	19.39	19.47	19.09	19.5	2		
5	64QAM	1	24	19.17	19.16	19.29				
5	64QAM	12	0	17.99	18.05	17.88				
5	64QAM	12	7	17.96	18.13	18.14	18.5	3		
5	64QAM	12	13	18.00	18.07	17.88				
5	64QAM	25	0	18.03	18.03	17.97				

Band 12 (700MHz Low Band)										
Part 27(only on channel required)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				2300	2305	2310				
Frequency (MHz)										
10	QPSK	1	0	22.47	22.64	22.60	24	0		
10	QPSK	1	25	22.89	22.91	22.74				
10	QPSK	1	49	22.72	22.64	22.73				
10	QPSK	25	0	21.79	21.83	21.80	23	1		
10	QPSK	25	12	21.77	21.71	21.78				
10	QPSK	25	25	21.76	21.68	21.77				
10	QPSK	50	0	21.77	21.79	21.74	22	2		
10	16QAM	1	0	21.66	21.99	21.66				
10	16QAM	1	25	21.91	21.87	21.81				
10	16QAM	1	49	21.81	21.75	21.73	22	2		
10	16QAM	25	0	20.75	20.70	20.69				
10	16QAM	25	12	20.69	20.69	20.76				
10	16QAM	25	25	20.77	20.66	20.73	22	2		
10	16QAM	50	0	20.63	20.70	20.62				
10	64QAM	1	0	20.77	20.85	20.86				
10	64QAM	1	25	20.71	20.67	20.68	22	2		
10	64QAM	1	49	20.81	20.90	20.87				
10	64QAM	25	0	19.75	19.75	19.68				
10	64QAM	25	12	19.80	19.67	19.63	21	3		
10	64QAM	25	25	19.70	19.67	19.76				
10	64QAM	50	0	19.69	19.65	19.70				
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
5	QPSK	1	0	22.43	22.52	22.44	24	0		
5	QPSK	1	12	22.75	22.74	22.67				
5	QPSK	1	24	22.62	22.58	22.61				
5	QPSK	12	0	21.64	21.66	21.71	23	1		
5	QPSK	12	7	21.73	21.69	21.82				
5	QPSK	12	13	21.73	21.69	21.66				
5	QPSK	25	0	21.75	21.62	21.71	23	1		
5	16QAM	1	0	21.39	21.93	21.73				
5	16QAM	1	12	21.55	21.62	21.61				
5	16QAM	1	24	21.57	21.73	21.93	22	2		
5	16QAM	12	0	20.63	20.70	20.64				
5	16QAM	12	7	20.61	20.65	20.69				
5	16QAM	12	13	20.61	20.56	20.67	22	2		
5	16QAM	25	0	20.56	20.64	20.77				
5	64QAM	1	0	20.81	20.62	20.54				
5	64QAM	1	12	20.94	20.95	21.14	22	2		
5	64QAM	1	24	20.54	20.64	20.57				
5	64QAM	12	0	19.62	19.59	19.59				
5	64QAM	12	7	19.69	19.69	19.70	21	3		
5	64QAM	12	13	19.66	19.61	19.65				
5	64QAM	25	0	19.84	19.73	19.69				
Channel				23025	23095	23155	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
3	QPSK	1	0	22.61	22.66	22.53	24	0		
3	QPSK	1	8	22.85	22.60	22.51				
3	QPSK									



Band 14 (700MHz Band)									
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									
23330									
Frequency (MHz)									
10	QPSK	1	0	22.54			24	0	
10	QPSK	1	25	22.83					
10	QPSK	1	49	22.88					
10	QPSK	1	73	22.88					
10	QPSK	25	0	21.62			23	1	
10	QPSK	25	12	21.72					
10	QPSK	25	25	21.56					
10	QPSK	25	37	21.68					
10	16QAM	1	0	22.12			23	1	
10	16QAM	1	25	22.26					
10	16QAM	1	49	21.90					
10	16QAM	1	73	20.71					
10	16QAM	25	0	20.73			22	2	
10	16QAM	25	12	20.73					
10	16QAM	25	25	20.64					
10	16QAM	25	37	20.61					
10	64QAM	1	0	20.74			22	2	
10	64QAM	1	25	20.69					
10	64QAM	1	49	20.43					
10	64QAM	1	73	19.80					
10	64QAM	25	0	19.65			21	3	
10	64QAM	25	12	19.65					
10	64QAM	25	25	19.71					
10	64QAM	25	37	19.65					
Channel									
23305									
23330									
23350									
Frequency (MHz)									
5	QPSK	1	0	22.48	22.51	22.52	24	0	
5	QPSK	1	12	22.67	22.75	22.69			
5	QPSK	1	24	22.47	22.62	22.52			
5	QPSK	12	0	21.69	21.69	21.69			
5	QPSK	12	7	21.66	21.75	21.75	23	1	
5	QPSK	12	13	21.67	21.59	21.61			
5	QPSK	25	0	21.64	21.70	21.79			
5	16QAM	1	0	21.83	21.87	22.19			
5	16QAM	1	12	21.90	22.21	21.85	23	1	
5	16QAM	1	24	21.85	22.01	21.69			
5	16QAM	12	0	20.81	20.70	20.72			
5	16QAM	12	7	20.76	20.72	20.67			
5	16QAM	12	13	20.68	20.56	20.48	22	2	
5	16QAM	12	25	20.73	20.72	20.51			
5	64QAM	1	0	20.58	20.69	20.67			
5	64QAM	1	12	20.96	20.72	20.92			
5	64QAM	1	24	20.82	20.80	20.53	22	2	
5	64QAM	1	37	20.58	20.53	20.53			
5	64QAM	25	0	19.69	19.68	19.76			
5	64QAM	25	7	19.80	19.79	19.76			
5	64QAM	25	13	19.65	19.78	19.48	21	3	
5	64QAM	25	19	19.65	19.78	19.48			
5	64QAM	25	25	19.73	19.66	19.60			
5	64QAM	25	37	19.73	19.66	19.60			

Band 17 (700MHz Band)									
Part 2Z (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									
23700									
Frequency (MHz)									
10	QPSK	1	0	23.37	23.32	23.60	24	0	
10	QPSK	1	25	22.76	22.81	22.79			
10	QPSK	1	49	22.60	22.64	22.64			
10	QPSK	1	73	21.60	21.70	21.74			
10	QPSK	25	0	21.65	21.77	21.73	23	1	
10	QPSK	25	12	21.75	21.72	21.71			
10	QPSK	25	25	21.78	21.86	21.82			
10	QPSK	25	37	21.78	21.86	21.82			
10	16QAM	1	0	21.59	21.93	21.67	23	1	
10	16QAM	1	25	22.03	21.86	21.86			
10	16QAM	1	49	21.76	22.06	21.86			
10	16QAM	1	73	20.63	20.74	20.76			
10	16QAM	25	0	20.60	20.76	20.64	22	2	
10	16QAM	25	12	20.66	20.72	20.76			
10	16QAM	25	25	20.66	20.72	20.76			
10	16QAM	25	37	20.86	20.76	20.72			
10	64QAM	1	0	20.65	20.73	20.74	22	2	
10	64QAM	1	25	20.92	20.59	21.00			
10	64QAM	1	49	20.89	20.88	20.90			
10	64QAM	1	73	19.65	19.68	19.72			
10	64QAM	25	0	19.65	19.65	19.71	21	3	
10	64QAM	25	12	19.65	19.66	19.66			
10	64QAM	25	25	19.65	19.66	19.66			
10	64QAM	25	37	19.73	19.79	19.88			
Channel									
23705									
23710									
23715									
Frequency (MHz)									
5	QPSK	1	0	22.40	22.55	22.48	24	0	
5	QPSK	1	12	22.73	22.76	22.66			
5	QPSK	1	24	22.46	22.49	22.51			
5	QPSK	12	0	21.55	21.65	21.63			
5	QPSK	12	7	21.72	21.81	21.81	23	1	
5	QPSK	12	13	21.62	21.63	21.67			
5	QPSK	25	0	21.67	21.75	21.75			
5	16QAM	1	0	21.70	21.91	21.83			
5	16QAM	1	12	22.08	22.01	22.25	23	1	
5	16QAM	1	24	21.74	21.78	21.86			
5	16QAM	12	0	20.54	20.57	20.64			
5	16QAM	12	7	20.76	20.54	20.72			
5	16QAM	12	13	20.61	20.58	20.71	22	2	
5	16QAM	12	25	20.57	20.64	20.70			
5	64QAM	1	0	20.22	20.73	20.50			
5	64QAM	1	12	20.90	21.00	21.11			
5	64QAM	1	24	20.69	20.70	20.45	22	2	
5	64QAM	1	37	20.58	20.45	20.45			
5	64QAM	25	0	19.60	19.64	19.58			
5	64QAM	25	7	19.72	19.80	19.71			
5	64QAM	25	13	19.58	19.53	19.70	21	3	
5	64QAM	25	19	19.58	19.53	19.70			
5	64QAM	25	25	19.73	19.68	19.74			
5	64QAM	25	37	19.73	19.68	19.74			

Band 25 (1900MHz Band)									
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									
26140									
26340									
26560									
Frequency (MHz)									
20	QPSK	1	0	22.89	22.90	22.92	24	0	
20	QPSK	1	49	23.10	23.37	23.16			
20	QPSK	1	99	22.85	22.77	22.88			
20	QPSK	50	0	21.98	22.09	22.08			
20	QPSK	50	24	22.03	22.15	22.11	23	1	
20	QPSK	50	50	22.05	22.00	22.04			
20	QPSK	100	0	22.03	22.09	22.03			
20	16QAM	1	0	21.98	21.97	22.57			
20	16QAM	1	49	22.38	22.74	22.69	23	1	
20	16QAM	1	99	22.33	22.69	22.69			
20	16QAM	50	0	20.99	21.16	21.08			
20	16QAM	50	24	21.05	21.15	21.22			
20	16QAM	50	50	21.07	20.99	20.94	22	2	
20	16QAM	100	0	21.02	20.99	21.05			
20	64QAM	1	0	21.02	21.30	21.11			
20	64QAM	1	49	21.56	21.43	21.61			
20	64QAM	1	99	20.82	20.93	21.26	22	2	
20	64QAM	50	0	20.00	20.12	20.06			
20	64QAM	50	24	20.01	20.13	20.23			
20	64QAM	50	50	20.13	19.96	20.02			
20	64QAM	100	0	20.14	19.96	20.13	21	3	
20	64QAM	100	24	20.01	20.13	20.23			
20	64QAM	100	50	20.13	19.96	20.02			
20	64QAM	100	75	20.02	20.02	20.28			
Channel									
26155									
26340									
26610									
Frequency (MHz)									
15	QPSK	1	0	23.00	22.92	23.01	24	0	
15	QPSK	1	37	23.09	23.19	23.17			
15	QPSK	1	74	22.92	22.82	23.01			
15	QPSK	36	0	22.02	22.15	22.20			
15	QPSK	36	20	22.08	22.07	22.25	23	1	
15	QPSK	36	39	22.14	22.05	22.24			
15	QPSK	75	0	22.09	22.07	22.08			
15	16QAM	1	0	22.49	22.25	22.17			
15	16QAM	1	37	22.78	23.19	23.17	23	1	
15	16QAM	1	74	22.40	22.52	22.33			
15	16QAM	36	0	21.01	21.04	21.24			
15	16QAM	36	20	21.01	21.10	21.14			
15	16QAM	36	39	21.00	21.02	21.17	22	2	
15	16QAM	75	0	21.08	21.02	21.11			
15	64QAM	1	0	21.07	21.43	21.18			
15	64QAM	1	37	21.56	21.37	21.26			
15	64QAM	1	74	21.00	20.98	21.00	22	2	
15	64QAM	36	0	20.07	20.10	20.13			
15	64QAM	36	20	20.16	20.12	20.18			
15	64QAM	36	39	20.16	20.03	20.11			
15	64QAM	75	0	20.02	20.02	20.28	21	3	
15	64QAM	75	20	20.02	20.12	20.31			
15	64QAM	75	39	20.02	20.12	20.31			
15	64QAM	75	58	20.02	20.12	20.31			
Channel									



Band 26 for FCC (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												
Frequency (MHz)												
15	QPSK	1	0	22.60	22.67	22.75	24	0				
15	QPSK	1	37	22.79	22.86	22.94						
15	QPSK	1	74	22.73	22.80	22.87						
15	QPSK	36	0	21.84	21.92	21.86						
15	QPSK	36	20	21.87	21.93	21.83	23	1				
15	QPSK	36	39	21.92	21.79	21.85						
15	QPSK	75	0	21.83	21.89	21.87						
15	16QAM	1	0	22.08	22.14	21.80						
15	16QAM	1	37	22.12	22.18	22.24	23	1				
15	16QAM	1	74	22.29	22.35	22.04						
15	16QAM	36	0	20.78	20.79	20.88						
15	16QAM	36	20	20.78	20.82	20.91						
15	16QAM	36	39	20.75	20.76	20.77	22	2				
15	16QAM	75	0	20.82	20.83	20.98						
15	64QAM	1	0	20.96	20.88	20.98						
15	64QAM	1	37	21.11	21.15	21.03						
15	64QAM	1	74	21.05	20.82	20.71	22	2				
15	64QAM	36	0	19.75	19.77	19.97						
15	64QAM	36	20	19.69	19.87	19.79						
15	64QAM	36	39	19.79	19.76	19.81						
15	64QAM	75	0	19.86	19.79	19.91	21	3				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.67	22.63	22.67				24	0	
10	QPSK	1	25	22.77	22.71	22.82						
10	QPSK	1	49	22.71	22.75	22.84						
10	QPSK	25	0	21.88	21.77	21.98						
10	QPSK	25	12	21.82	21.94	21.91	23	1				
10	QPSK	25	25	21.71	21.99	21.92						
10	QPSK	50	0	21.67	21.94	21.96						
10	16QAM	1	0	22.15	22.23	21.86						
10	16QAM	1	74	22.15	22.14	22.48	23	1				
10	16QAM	1	49	21.89	22.13	21.74						
10	16QAM	25	0	20.82	20.81	21.00						
10	16QAM	25	12	20.87	20.91	20.95						
10	16QAM	25	25	20.64	20.93	20.93	22	2				
10	16QAM	50	0	20.69	20.82	20.84						
10	64QAM	1	0	20.46	20.89	20.97						
10	64QAM	1	25	21.02	20.99	21.46						
10	64QAM	1	49	20.90	20.81	20.64	22	2				
10	64QAM	25	0	19.86	19.76	20.02						
10	64QAM	25	12	19.87	19.92	19.86						
10	64QAM	25	25	19.71	19.89	19.76						
10	64QAM	50	0	19.83	19.77	19.89	21	3				
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.55	22.63	22.75				24	0	
5	QPSK	1	24	22.63	22.83	22.74						
5	QPSK	12	0	21.60	21.70	21.77						
5	QPSK	12	7	21.86	21.87	21.84						
5	QPSK	12	13	21.73	21.87	21.78	23	1				
5	QPSK	25	0	21.66	21.82	21.89						
5	16QAM	1	0	22.07	21.68	21.93						
5	16QAM	1	12	21.68	22.01	21.86						
5	16QAM	1	24	21.87	21.79	21.67	23	1				
5	16QAM	12	0	20.66	20.77	20.79						
5	16QAM	12	7	20.72	20.85	20.83						
5	16QAM	12	13	20.59	20.92	20.74						
5	16QAM	25	0	20.63	20.84	20.79	22	2				
5	64QAM	1	0	20.73	20.79	21.05						
5	64QAM	1	12	21.35	20.98	21.03						
5	64QAM	1	24	20.83	20.89	20.94						
5	64QAM	12	0	19.69	19.83	19.85	21	3				
5	64QAM	12	7	19.82	19.87	19.82						
5	64QAM	12	13	19.66	19.81	19.84						
5	64QAM	25	0	19.59	19.85	19.69						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.66	22.70	22.83	24	0				
3	QPSK	1	8	22.70	22.63	22.74						
3	QPSK	1	14	22.77	22.71	22.67						
3	QPSK	8	0	21.72	21.77	21.93						
3	QPSK	8	4	21.75	21.86	21.82	23	1				
3	QPSK	8	7	21.74	21.75	21.97						
3	QPSK	15	0	21.73	21.81	21.97						
3	16QAM	1	0	22.01	22.09	22.15						
3	16QAM	1	8	22.12	22.39	22.10	23	1				
3	16QAM	1	14	21.79	22.14	22.13						
3	16QAM	8	0	20.68	20.88	20.77						
3	16QAM	8	4	20.71	20.85	20.71						
3	16QAM	8	7	20.73	20.86	20.67	22	2				
3	16QAM	15	0	20.64	20.89	20.74						
3	64QAM	1	0	20.89	20.52	20.86						
3	64QAM	1	8	20.78	20.89	20.73						
3	64QAM	1	14	21.09	20.88	20.78	22	2				
3	64QAM	8	0	19.71	19.78	19.84						
3	64QAM	8	4	19.81	19.90	19.94						
3	64QAM	8	7	19.81	19.71	19.73						
3	64QAM	15	0	19.83	19.86	19.87	21	3				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.65	22.65	22.63				24	0	
1.4	QPSK	1	3	22.67	22.68	22.77						
1.4	QPSK	1	5	22.62	22.72	22.69						
1.4	QPSK	3	0	22.78	22.74	22.75						
1.4	QPSK	3	1	22.83	22.80	23.00	23	1				
1.4	QPSK	3	3	22.70	22.75	22.72						
1.4	QPSK	6	0	21.76	21.88	21.81						
1.4	16QAM	1	0	21.92	21.83	21.73						
1.4	16QAM	1	3	21.71	21.99	21.93	23	1				
1.4	16QAM	1	5	22.10	22.14	22.02						
1.4	16QAM	3	0	21.59	21.85	21.75						
1.4	16QAM	3	1	21.74	21.65	21.76						
1.4	16QAM	3	3	21.78	21.87	21.75	22	2				
1.4	16QAM	6	0	20.78	20.89	20.84						
1.4	64QAM	1	0	20.43	21.03	20.87						
1.4	64QAM	1	3	21.02	20.80	20.97						
1.4	64QAM	1	5	20.87	21.05	20.83	22	2				
1.4	64QAM	3	0	20.90	21.11	20.83						
1.4	64QAM	3	1	20.83	21.01	20.86						
1.4	64QAM	3	3	20.75	21.00	20.91						
1.4	64QAM	6	0	19.86	19.77	19.74	21	3				

Band 66												
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												
Frequency (MHz)												
20	QPSK	1	0	21.75	21.59	21.56	23	0				
20	QPSK	1	49	21.94	21.86	21.91						
20	QPSK	1	99	21.48	21.41	21.56						
20	QPSK	50	0	20.95	20.83	20.85						
20	QPSK	50	24	20.92	20.85	20.90	22	1				
20	QPSK	50	50	20.80	20.77	20.68						
20	QPSK	100	0	20.89	20.76	20.79						
20	16QAM	1	0	20.87	20.92	20.83						
20	16QAM	1	49	21.14	20.99	21.08	22	1				
20	16QAM	1	99	20.82	20.80	20.96						
20	16QAM	50	0	19.91	19.74	19.85						
20	16QAM	50	24	19.90	19.83	19.85						
20	16QAM	50	50	19.87	19.78	19.68	21	2				
20	16QAM	100	0	19.86	19.77	19.76						
20	64QAM	1	0	19.85	19.84	19.73						
20	64QAM	1	49	20.03	20.02	20.05						
20	64QAM	1	99	19.75	19.84	19.84	21	2				
20	64QAM	50	0	18.88	18.85	18.97						
20	64QAM	50	24	18.84	18.85	18.86						
20	64QAM	50	50	18.80	18.83	18.89						
20	64QAM	100	0	18.87	18.74	18.80	20	3				
Channel												
Frequency (MHz)												
15	QPSK	1	0	21.74	21.64	21.66				23	0	
15	QPSK	1	37	21.91	21.82	21.93						
15	QPSK	1	74	21.51	21.52	21.53						
15	QPSK	36	0	20.93	20.81	20.90						
15	QPSK	36	20	20.85	20.72	20.82	22	1				
15	QPSK	36	39	20.83	20.81	20.73						
15	QPSK	75	0	20.82	20.83	20.81						
15	16QAM	1	0	20.94	20.97	20.91						
15	16QAM	1	37	21.19	21.15	21.14	22	1				
15	16QAM	1	74	20.87	20.83	20.80						
15	16QAM	36	0	19.91	19.73	19.81						
15	16QAM	36	20	19.81	19.76	19.87						
15	16QAM	36	39	19.77	19.73	19.66	21	2				
15	16QAM	75	0	19.89	19.74	19.80						
15	64QAM	1	0	19.85	19.88	19.83						
15	64QAM	1	37	20.07	20.00	20.11						
15	64QAM	1	74	19.77	19.72	19.70	21	2				
15	64QAM	36	0	18.86	18.81	18.92						
15	64QAM	36	20	18.83	18.76	18.74						
15	64QAM	36	39	18.87	18.74	18.69						
15	64QAM	75	0	18.87	18.82	18.79	20					



Band 41 (2.6G Band) Class 3													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40600	41055	41490					
Frequency (MHz)				2905	2949.5	2993	3037.5	3082					
20	QPSK	1	0	22.26	22.15	22.08	22.11	22.09					
20	QPSK	1	49	22.22	22.2	22.35	22.25	22.23		23	0		
20	QPSK	1	99	22.22	22.13	22.13	22.13	22.05					
20	QPSK	50	0	21.26	21.27	21.28	21.26	21.13					
20	QPSK	50	24	21.26	21.27	21.27	21.24	21.11					
20	QPSK	50	50	21.25	21.25	21.24	21.21	21.12		22	1		
20	QPSK	100	0	21.22	21.2	21.23	21.19	21.21					
20	16QAM	1	0	21.29	21.23	21.24	21.06	21.03					
20	16QAM	1	49	21.37	21.37	21.42	21.37	21.25		22	1		
20	16QAM	1	99	21.19	21.24	21.2	21.26	21.13					
20	16QAM	50	0	20.42	20.29	20.16	20.34	20.11					
20	16QAM	50	24	20.37	20.26	20.22	20.3	20.29					
20	16QAM	50	50	20.37	20.27	20.14	20.22	20.25		21	2		
20	16QAM	100	0	20.27	20.25	20.15	20.25	20.3					
20	64QAM	1	0	19.91	19.94	19.96	19.93	19.95					
20	64QAM	1	49	20.04	20.18	20.32	20.13	20.14		21	2		
20	64QAM	1	99	19.91	19.93	19.98	20	19.93					
20	64QAM	50	0	19.52	19.16	19.14	19.22	19.04					
20	64QAM	50	24	19.28	19.22	19.16	19.24	19.19					
20	64QAM	50	50	19.32	19.22	19.2	19.06	19.3		20	3		
20	64QAM	100	0	19.21	19.19	19.14	19.25	19.27					
Channel				39725	40173	40620	41068	41515					
Frequency (MHz)				2903.5	2948.3	2993	3037.8	3082.5					
15	QPSK	1	0	22.32	22.16	22.17	22.13	22.08					
15	QPSK	1	37	22.32	22.25	22.23	22.31	22.3		23	0		
15	QPSK	1	74	21.24	21.26	21.25	21.27	21.15					
15	QPSK	36	0	21.37	21.3	21.21	21.19	21.15					
15	QPSK	36	20	21.24	21.25	21.17	21.24	21.11		22	1		
15	QPSK	36	39	21.33	21.26	21.22	21.26	21.17					
15	QPSK	75	0	21.28	21.17	21.21	21.22	21.13					
15	16QAM	1	0	21.27	21.22	21.14	21.17	21.21					
15	16QAM	1	37	21.38	21.33	21.31	21.33	21.22		22	1		
15	16QAM	1	74	21.24	21.26	21.25	21.27	21.15					
15	16QAM	36	0	20.29	20.17	20.13	20.08	20.23					
15	16QAM	36	20	20.29	20.19	20.09	20.13	20.21		21	2		
15	16QAM	36	39	20.2	20.17	20.14	20.18	20.19					
15	16QAM	75	0	20.28	20.23	20.16	20.21	20.23					
15	64QAM	1	0	20.04	20.04	20.01	19.93	19.85					
15	64QAM	1	37	20.16	20.11	20.21	20.13	20.12		21	2		
15	64QAM	1	74	19.26	19.08	19.26	19.08	20.01					
15	64QAM	36	0	19.33	19.23	19.13	19.17	19.07					
15	64QAM	36	20	19.22	19.19	19.19	19.17	19.16		20	3		
15	64QAM	36	39	19.27	19.19	19.12	19.23	19.27					
15	64QAM	75	0	19.26	19.25	19.18	19.24	19.25					
Channel				39700	40160	40620	41080	41540					
Frequency (MHz)				2901	2947	2993	3039	3085					
10	QPSK	1	0	22.21	22.17	22.22	22.21	22.16					
10	QPSK	1	25	22.22	22.08	22.01	22.16	22.16		23	0		
10	QPSK	1	49	22.32	22.28	22.18	22.25	22.19					
10	QPSK	25	0	21.35	21.23	21.18	21.23	21.31					
10	QPSK	25	12	21.38	21.22	21.28	21.22	21.28		22	1		
10	QPSK	25	25	21.33	21.20	21.25	21.22	21.12					
10	QPSK	50	0	21.35	21.17	21.22	21.28	21.23					
10	16QAM	1	0	21.34	21.26	21.25	21.27	21.31					
10	16QAM	1	25	21.32	21.11	21.15	21.15	21.08		22	1		
10	16QAM	1	49	21.28	21.19	21.22	21.18	21.30					
10	16QAM	25	0	20.42	20.30	20.37	20.23	20.32					
10	16QAM	25	12	20.34	20.34	20.19	20.32	20.35		21	2		
10	16QAM	25	25	20.29	20.21	20.24	20.38	20.29					
10	16QAM	50	0	20.49	20.24	20.25	20.23	20.26					
10	64QAM	1	0	20.11	20.07	19.98	19.98	20.07					
10	64QAM	1	25	20.02	19.93	19.99	19.90	19.95		21	2		
10	64QAM	1	49	20.07	20.01	20.09	20.00	20.08					
10	64QAM	25	0	19.39	19.37	19.29	19.36	19.32					
10	64QAM	25	12	19.34	19.34	19.33	19.31	19.31		20	3		
10	64QAM	25	25	19.38	19.19	19.27	19.33	19.28					
10	64QAM	50	0	19.31	19.28	19.20	19.20	19.23					
Channel				39675	40165	40620	41080	41565					
Frequency (MHz)				2898.5	2945.8	2993	3040.3	3087.8					
5	QPSK	1	0	22.20	22.09	22.18	22.17	22.22					
5	QPSK	1	12	22.22	22.32	22.22	22.30	22.28		23	0		
5	QPSK	1	24	22.32	22.30	22.11	22.14	22.17					
5	QPSK	12	0	21.30	21.17	21.22	21.27	21.20					
5	QPSK	12	7	21.38	21.35	21.23	21.35	21.25		22	1		
5	QPSK	12	13	21.40	21.23	21.28	21.23	21.24					
5	QPSK	25	0	21.27	21.28	21.18	21.29	21.15					
5	16QAM	1	0	21.38	21.18	21.16	21.26	21.20					
5	16QAM	1	12	21.42	21.38	21.35	21.44	21.35		22	1		
5	16QAM	1	24	21.33	21.25	21.22	21.27	21.22					
5	16QAM	12	0	20.33	20.12	20.14	20.18	20.24					
5	16QAM	12	7	20.38	20.15	20.17	20.22	20.21		21	2		
5	16QAM	12	13	20.27	20.14	20.09	20.25	20.27					
5	16QAM	25	0	20.39	20.27	20.21	20.22	20.36					
5	64QAM	1	0	20.16	20.09	20.16	20.01	20.14					
5	64QAM	1	12	20.18	20.15	20.25	20.24	20.27		21	2		
5	64QAM	1	24	20.17	20.02	20.07	20.03	20.14					
5	64QAM	12	0	19.29	19.26	19.18	19.18	19.32					
5	64QAM	12	7	19.31	19.24	19.15	19.34	19.36		20	3		
5	64QAM	12	13	19.29	19.20	19.19	19.27	19.30					
5	64QAM	25	0	19.38	19.30	19.25	19.25	19.20					

Band 41 (2.6G Band) HPUE												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2905	2949.5	2993	3037.5	3082				
20	QPSK	1	0	23.53	23.63	23.52	23.39	23.48				
20	QPSK	1	49	23.61	23.60	23.71	23.45	23.50		24.5	0	
20	QPSK	1	99	23.48	23.60	23.45	23.40	23.39				
20	QPSK	50	0	22.60	22.60	22.67	22.51	22.57				
20	QPSK	50	24	22.66	22.64	22.68	22.56	22.61				
20	QPSK	50	50	22.61	22.63	22.60	22.65	22.54		23.5	1	
20	QPSK	100	0	22.61	22.60	22.63	22.60	22.62				
20	16QAM	1	0	22.82	22.90	22.78	22.66	22.71				
20	16QAM	1	49	22.84	23.00	22.78	22.58	22.76		23.5	1	
20	16QAM	1	99	22.75	22.93	22.67	22.60	22.74				
20	16QAM	50	0	21.69	21.77	21.						



2CA DL Power for Receiver on - UAT

CA List	PCC							SCC				Power	
	LTE	BW	UL		Mod.	UL#	UL	LTE	BW	DL	DL	With CA Tx Power (dBm)	Without CA Tx Power (dBm)
	Band	(MHz)	Freq (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq (MHz)	Channel		
CA_2A-5A	Band 2	20M	1880	18900	QPSK	1	49	Band 5	10M	881.5	2525	18.26	18.34
CA_2A-7A	Band 2	20M	1880	18900	QPSK	1	49	Band 7	20M	2555	3100	18.29	18.34
CA_2A-12A	Band 2	20M	1880	18900	QPSK	1	49	Band 2	20M	1960	300	17.51	17.62
CA_2A-13A	Band 2	20M	1880	18900	QPSK	1	49	Band 12	10M	737.5	5095	18.29	18.34
CA_2A-17A	Band 2	20M	1880	18900	QPSK	1	49	Band 13	10M	751	5230	18.22	18.34
CA_4A-5A	Band 2	20M	1880	18900	QPSK	1	49	Band 17	10M	740	5790	18.19	18.34
CA_4A-6A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 5	10M	881.5	2525	18.69	18.84
CA_4A-12A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 12	10M	737.5	5095	18.66	18.84
CA_4A-13A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 13	10M	751	5230	18.57	18.84
CA_4A-17A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 17	10M	740	5790	18.60	18.84
CA_12A-66A	Band 66	20M	1720	132072	QPSK	1	49	Band 12	10M	737.5	5095	22.54	22.91
CA_12A-25A	Band 25	20M	1880	26340	QPSK	1	49	Band 12	10M	737.5	5095	19.31	19.40
CA_25A-41A	Band 25	20M	1880	26340	QPSK	1	49	Band 41	20M	2593	40620	18.28	18.40
	Band 41	20M	2593	40620	QPSK	1	49	Band 25	20M	1962.5	6365	19.35	19.44
CA_2C	Band 2	20M	1880	18900	QPSK	1	49	Band 2	20M	1979.8	1098	18.30	18.34
CA_41C	Band 41	20M	2593	40620	QPSK	1	49	Band 41	20M	2612.8	40818	19.38	19.44
CA_66C	Band 66	20M	1720	132072	QPSK	1	49	Band 66	20M	2139.8	66734	22.85	22.91
CA_2A-2A	Band 2	20M	1880	18900	QPSK	1	49	Band 2	5M	1987.5	1175	18.22	18.34
CA_4A-4A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 4	5M	2152.5	2375	18.85	18.94
CA_25A-25A	Band 25	20M	1880	26340	QPSK	1	49	Band 25	5M	1992.5	8665	18.29	18.40
CA_41A-41A	Band 41	20M	2593	40620	QPSK	1	49	Band 41	5M	2687.5	41565	19.35	19.44
CA_66A-66A	Band 66	20M	1720	132072	QPSK	1	49	Band 66	5M	2197.5	67311	22.66	22.91

2CA DL Power for Receiver off - UAT

CA List	PCC							SCC				Power	
	LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	With CA Tx Power (dBm)	Without CA Tx Power (dBm)
	Band	(MHz)	Freq. (MHz)	Channel		RB	Offset	Band	(MHz)	Freq. (MHz)	Channel		
CA_2A-7A	Band 7	20M	2560	21350	QPSK	1	49	Band 2	20M	1960	900	21.02	21.10
CA_23A-41A	Band 41	20M	2593	40620	QPSK	1	49	Band 25	20M	1962.5	8365	22.23	22.35
CA_41C	Band 41	20M	2593	40620	QPSK	1	49	Band 41	20M	2612.5	40815	22.29	22.35
CA_41A-41A	Band 41	20M	2593	40620	QPSK	1	49	Band 41	5M	2687.5	41565	22.30	22.35



2CA DL Power for Receiver on - LAT

CA List	PCB								SCC				Power	
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL#		LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	Tx Power (dBm)	Tx Power (dBm)	
						RB	Offset							
	Band							Band						
CA_2A-5A	Band 2	20M	1880	18900	QPSK	1	49	Band 5	10M	881.5	2525	23.06	23.12	
	Band 5	10M	829	20450	QPSK	1	25	Band 2	20M	1960	900	22.42	22.98	
CA_2A-7A	Band 2	20M	1880	18900	QPSK	1	49	Band 7	20M	2655	3100	22.97	23.12	
	Band 7	20M	2560	21350	QPSK	1	49	Band 2	20M	1960	900	23.14	23.24	
CA_2A-12A	Band 2	20M	1880	18900	QPSK	1	49	Band 12	10M	737.5	5095	22.86	23.12	
	Band 12	10M	707.5	23095	QPSK	1	25	Band 2	20M	1960	900	22.47	22.91	
CA_2A-13A	Band 2	20M	1880	18900	QPSK	1	49	Band 13	10M	751	5230	23.02	23.12	
	Band 13	10M	782	23230	QPSK	1	0	Band 2	20M	1960	900	22.39	22.75	
CA_2A-17A	Band 2	20M	1880	18900	QPSK	1	49	Band 17	10M	740	5790	22.91	23.12	
	Band 17	10M	710	23790	QPSK	1	25	Band 2	10M	1960	900	22.54	22.91	
CA_4A-5A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 5	10M	881.5	2525	22.76	22.81	
	Band 5	10M	829	20450	QPSK	1	25	Band 4	20M	2132.5	2175	22.51	22.98	
CA_4A-12A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 12	10M	737.5	5095	22.68	22.81	
	Band 12	10M	707.5	23095	QPSK	1	25	Band 4	20M	2132.5	2175	22.44	22.91	
CA_4A-13A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 13	10M	751	5230	22.73	22.81	
	Band 13	10M	782	23230	QPSK	1	0	Band 4	20M	2132.5	2175	22.41	22.75	
CA_4A-17A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 17	10M	740	5790	22.55	22.81	
	Band 17	10M	710	23790	QPSK	1	25	Band 4	10M	2132.5	2175	22.48	22.81	
CA_12A-66A	Band 12	10M	707.5	23095	QPSK	1	25	Band 66	20M	2155	68885	22.61	22.91	
	Band 66	20M	1720	132072	QPSK	1	49	Band 12	10M	737.5	5095	22.79	22.88	
CA_12A-25A	Band 12	10M	707.5	23095	QPSK	1	25	Band 25	20M	1962.5	8365	22.55	22.91	
	Band 25	20M	1880	26340	QPSK	1	49	Band 12	10M	737.5	5095	23.07	23.21	
CA_25A-26A	Band 25	20M	1880	26340	QPSK	1	49	Band 26	15M	876.5	8665	23.18	23.21	
	Band 26	15M	831.5	26865	QPSK	1	37	Band 25	20M	1962.5	8365	22.83	23.09	
CA_25A-41A	Band 25	20M	1880	26340	QPSK	1	49	Band 41	20M	2593	40620	23.12	23.21	
	Band 41	20M	2593	40620	QPSK	1	49	Band 25	20M	1962.5	8365	23.24	23.30	
CA_2C	Band 2	20M	1880	18900	QPSK	1	49	Band 2	20M	1979.8	1098	23.06	23.12	
CA_5B	Band 5	10M	829	20450	QPSK	1	25	Band 5	10M	883.9	2549	22.92	22.98	
CA_12B	Band 12	5M	707.5	23095	QPSK	1	25	Band 12	10M	744.7	5167	22.87	22.91	
CA_41C	Band 41	20M	2593	40620	QPSK	1	49	Band 41	20M	2612.8	40818	23.26	23.30	
CA_66C	Band 66	20M	1720	132072	QPSK	1	49	Band 66	20M	2139.8	66734	22.81	22.88	
CA_2A-2A	Band 2	20M	1880	18900	QPSK	1	49	Band 2	5M	1987.5	1175	23.05	23.12	
CA_4A-4A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 4	5M	2152.5	2375	22.76	22.81	
CA_5A-5A	Band 5	10M	829	20450	QPSK	1	25	Band 5	5M	891.5	2625	22.87	22.98	
CA_25A-25A	Band 25	20M	1880	26340	QPSK	1	49	Band 25	5M	1992.5	8665	23.18	23.21	
CA_41A-41A	Band 41	20M	2593	40620	QPSK	1	49	Band 41	5M	2687.5	41565	23.27	23.30	
CA_66A-66A	Band 66	20M	1720	132072	QPSK	1	49	Band 66	5M	2197.5	67311	22.79	22.88	



2CA DL Power for Receiver off - LAT

CA List	PCD							SCC				Power	
	LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	Tx. Power (dBm)	Tx. Power (dBm)
	Band	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel		
CA_2A-7A	Band 7	20M	2560	21350	QPSK	1	49	Band 2	20M	1950	900	23.02	23.12
CA_4A-5A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 5	10M	881.5	2525	21.79	21.90
CA_4A-12A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 12	10M	737.5	5095	21.85	21.90
CA_4A-13A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 13	10M	751	5230	21.71	21.80
CA_4A-17A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 17	10M	740	5780	21.80	21.90
CA_12A-66A	Band 66	20M	1720	132072	QPSK	1	49	Band 12	10M	737.5	5095	21.76	21.94
CA_25A-41A	Band 41	20M	2593	40620	QPSK	1	49	Band 25	20M	1962.5	8365	22.29	22.35
CA_41C (Class3)	Band 41	20M	2593	40620	QPSK	1	49	Band 41	20M	2612.8	40818	22.27	22.35
CA_41G(H/PLU)	Band 41	20M	2593	40620	QPSK	1	49	Band 41	20M	2612.8	40818	22.24	22.35
CA_66C	Band 66	20M	1720	132072	QPSK	1	49	Band 66	20M	2139.8	66724	21.88	21.94
CA_4A-4A	Band 4	20M	1732.5	20175	QPSK	1	49	Band 4	5M	2152.5	2375	21.86	21.90
CA_41A-41A	Band 41	20M	2593	40620	QPSK	1	49	Band 41	5M	2687.5	41565	22.30	22.35
CA_66A-66A	Band 66	20M	1720	132072	QPSK	1	49	Band 66	5M	2197.5	67311	21.87	21.94



WLAN/Bluetooth Power

2.4GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b 1Mbps	1	2412	13.70	15.50	100.00	
	6	2437	14.10	15.50		
	11	2462	13.90	15.50		
802.11g 6Mbps	1	2412	13.00	15.00	100.00	
	6	2437	13.40	15.00		
	11	2462	13.30	15.00		
802.11n-HT20 MCS0	1	2412	12.80	14.50	100.00	
	6	2437	13.80	14.50		
	11	2462	13.60	14.50		

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	16.22	18.00	100.00	
	40	5200	16.16	18.00		
	44	5220	16.18	18.00		
	48	5240	16.13	18.00		
802.11n-HT20 MCS0	36	5180	15.61	17.50	100.00	
	40	5200	15.66	17.50		
	44	5220	15.70	17.50		
802.11n-HT40 MCS0	38	5190	15.14	17.00	100.00	
	46	5230	15.24	17.00		
	36	5180	15.50	17.50		
802.11ac-VHT20 MCS0	40	5200	15.57	17.50	100.00	
	44	5220	15.56	17.50		
	48	5240	15.58	17.50		
802.11ac-VHT40 MCS0	38	5190	15.07	17.00	100.00	
	46	5230	15.19	17.00		
802.11ac-VHT80 MCS0	42	5210	11.94	13.50	100.00	

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5260	16.32	18.00	100.00	
	56	5280	16.50	18.00		
	60	5300	16.46	18.00		
	64	5320	16.53	18.00		
802.11n-HT20 MCS0	52	5260	15.95	17.50	100.00	
	56	5280	15.78	17.50		
	60	5300	15.90	17.50		
	64	5320	15.80	17.50		
802.11n-HT40 MCS0	54	5270	15.26	17.00	100.00	
	62	5310	15.25	17.00		
802.11ac-VHT20 MCS0	52	5260	15.85	17.50	100.00	
	56	5280	15.70	17.50		
	60	5300	15.85	17.50		
	64	5320	15.75	17.50		
802.11ac-VHT40 MCS0	54	5270	15.17	17.00	100.00	
	62	5310	15.15	17.00		
802.11ac-VHT80 MCS0	58	5290	12.22	13.50	100.00	

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	100	5900	14.27	16.00	100.00	
	116	5980	14.17	16.00		
	124	5620	14.24	16.00		
	132	5660	14.12	16.00		
	140	5700	14.22	16.00		
	144	5720	14.25	16.00		
802.11n-HT20 MCS0	100	5900	13.52	15.50	100.00	
	116	5980	13.54	15.50		
	124	5620	13.56	15.50		
	132	5660	13.63	15.50		
	140	5700	13.61	15.50		
	144	5720	13.75	15.50		
802.11n-HT40 MCS0	102	5510	13.02	15.00	100.00	
	110	5550	13.05	15.00		
	126	5630	13.02	15.00		
	134	5670	13.09	15.00		
	142	5710	13.20	15.00		
	100	5900	13.51	15.50		
802.11ac-VHT20 MCS0	116	5980	13.53	15.50	100.00	
	124	5620	13.52	15.50		
	132	5660	13.58	15.50		
	140	5700	13.55	15.50		
802.11ac-VHT40 MCS0	102	5510	13.01	15.00	100.00	
	110	5550	13.03	15.00		
	126	5630	13.00	15.00		
	134	5670	13.02	15.00		
802.11ac-VHT80 MCS0	106	5530	11.75	13.50	100.00	
	122	5610	11.93	13.50		
	138	5690	11.94	13.50		

5GHz WLAN		Ant 1				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	149	5745	14.60	16.00	100.00	
	157	5795	14.40	16.00		
	165	5825	14.72	16.00		
802.11n-HT20 MCS0	149	5745	14.29	16.00	100.00	
	157	5795	14.53	16.00		
	165	5825	14.56	16.00		
802.11n-HT40 MCS0	151	5755	13.33	15.00	100.00	
	159	5795	13.41	15.00		
802.11ac-VHT20 MCS0	149	5745	14.23	16.00	100.00	
	157	5795	14.50	16.00		
	165	5825	14.49	16.00		
802.11ac-VHT40 MCS0	151	5755	13.30	15.00	100.00	
	159	5795	13.36	15.00		
802.11ac-VHT80 MCS0	155	5775	12.30	14.00	100.00	



Bluetooth Power

Mode	Channel	Frequency (MHz)	Average power (dBm)									Tune-up Limit
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	10.00	9.90	9.90	8.10	7.40	7.30	8.10	7.40	7.30	11
	CH 39	2441	9.60	9.50	9.40	7.90	7.10	7.00	7.80	7.10	7.00	
	CH 75	2480	9.70	9.50	9.50	7.80	7.10	6.90	7.80	7.10	6.90	

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	-3.00
	CH 19	2440	-2.20
	CH 39	2480	-3.40
Tune-up Limit			0

Mode	Channel	Frequency (MHz)	Average power (dBm)
			2Mbps
v5.0 LE	CH 00	2402	-2.50
	CH 19	2440	-2.20
	CH 39	2480	-2.20
Tune-up Limit			0