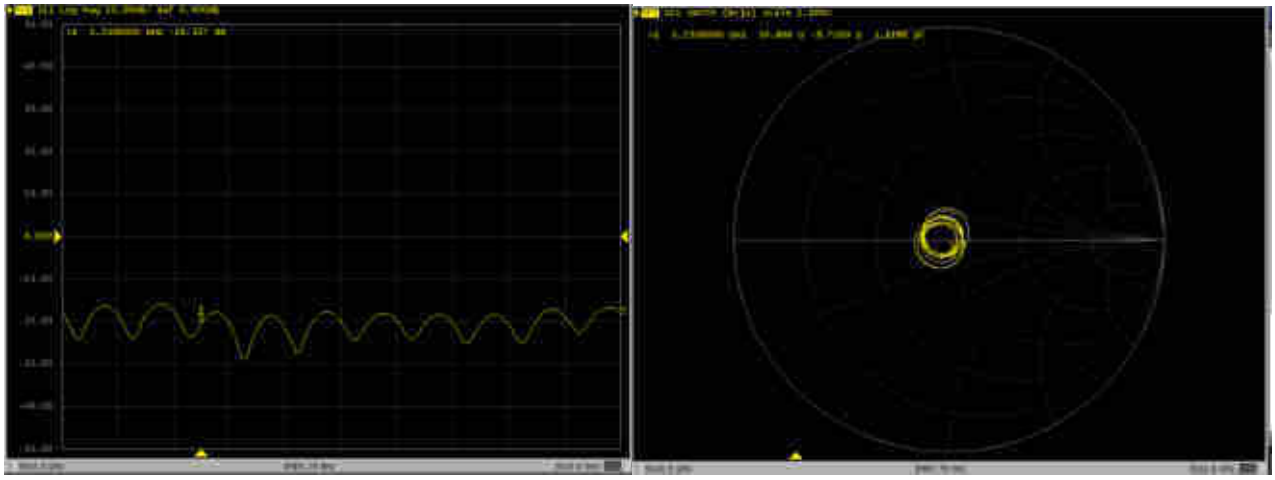
<Justification of the extended calibration>

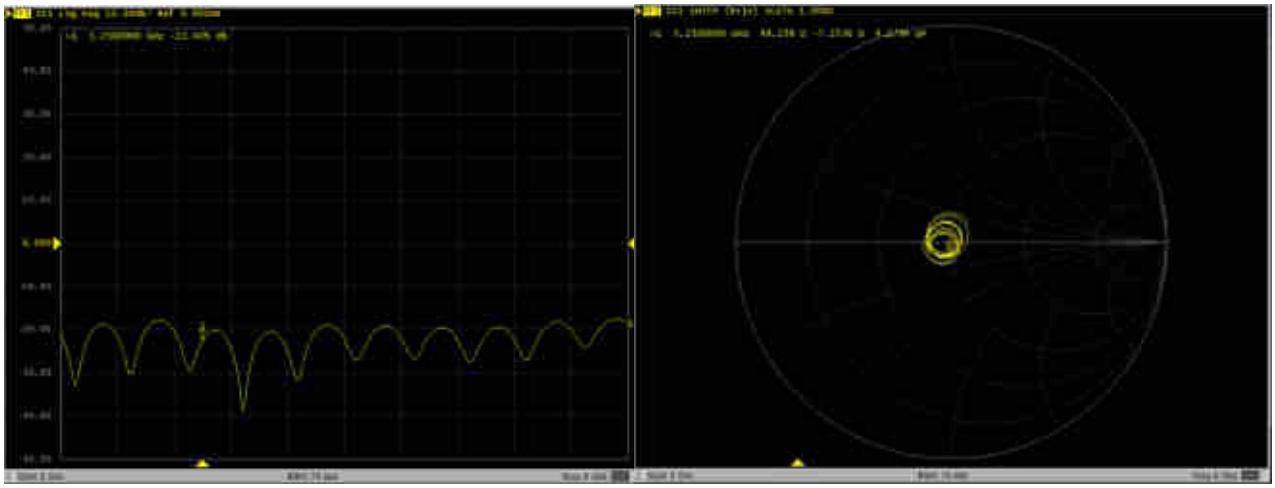
The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

Dipole Verification Data> D5GHzV3, serial no. 1167

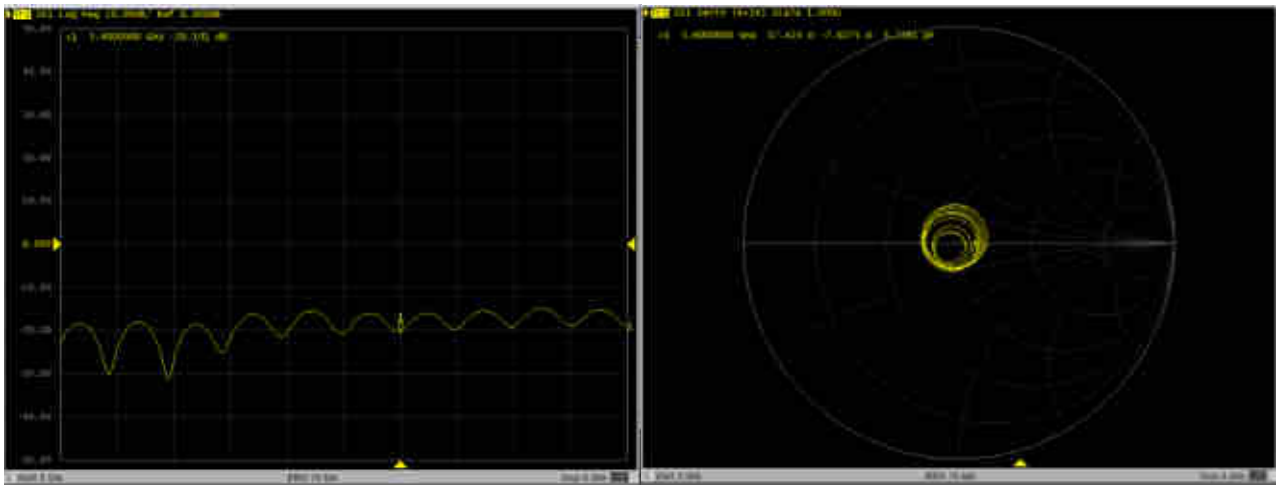
5250MHz - Head



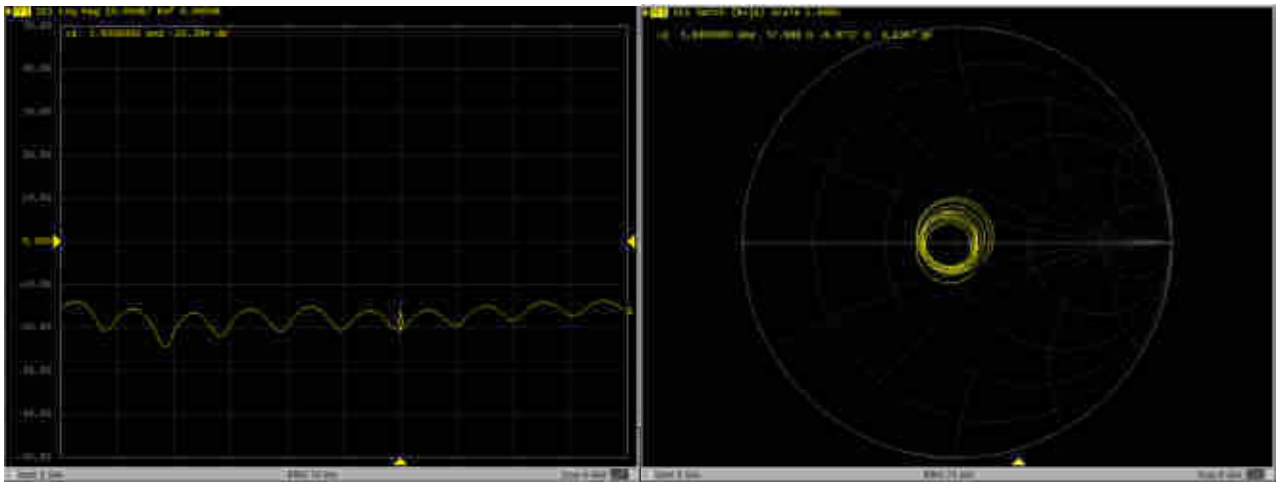
5250MHz – Body



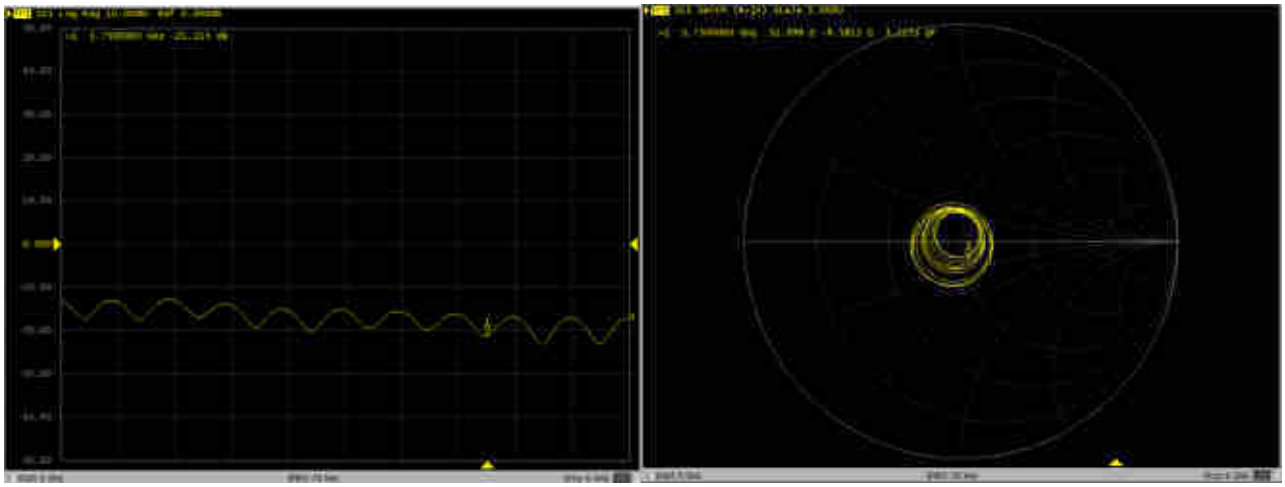
5600MHz – Head



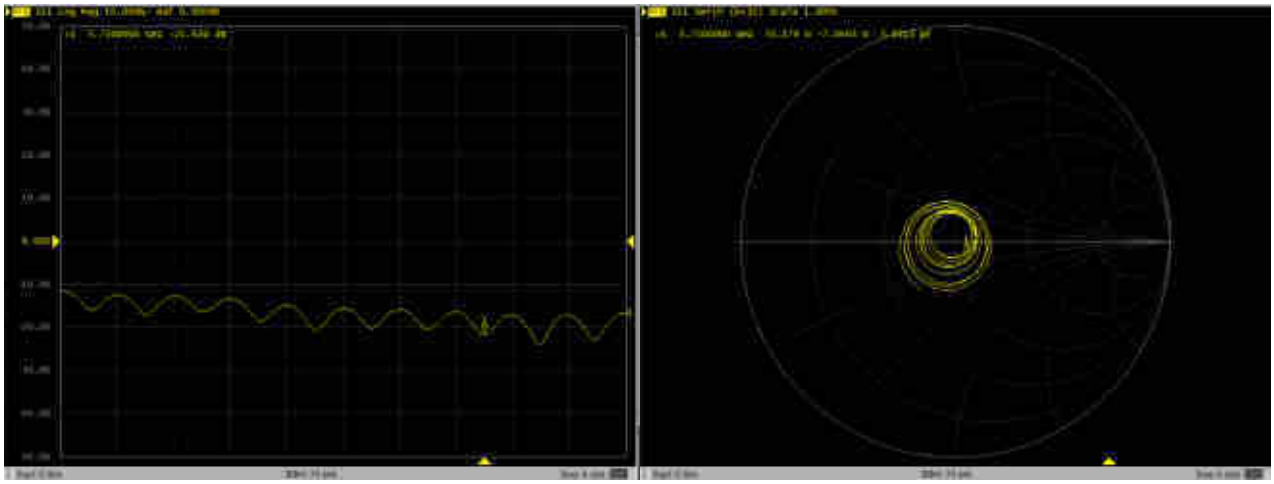
5600MHz – Body



5750MHz – Head



5750MHz – Body



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Accreditation No.: SCS 0108

Client **Auden**

Certificate No: DAE3-528_Mar20

CALIBRATION CERTIFICATE

Object	DAE3 - SD 000 D03 AA - SN: 528
Calibration procedure(s)	QA CAL-06.v30 Calibration procedure for the data acquisition electronics (DAE)
Calibration date:	March 16, 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
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:	Eric Hainfeld	Laboratory Technician	
Approved by:	Sven Kühn	Deputy Manager	

Issued: March 16, 2020

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

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 =	6.1µV ,	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	404.513 ± 0.02% (k=2)	404.615 ± 0.02% (k=2)	404.537 ± 0.02% (k=2)
Low Range	3.97109 ± 1.50% (k=2)	3.95930 ± 1.50% (k=2)	3.96568 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	50.0 ° ± 1 °

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	200037.58	3.28	0.00
Channel X	+ Input	20009.65	3.92	0.02
Channel X	- Input	-20001.89	3.62	-0.02
Channel Y	+ Input	200037.90	3.50	0.00
Channel Y	+ Input	20005.83	0.31	0.00
Channel Y	- Input	-20005.73	-0.03	0.00
Channel Z	+ Input	200033.51	-0.62	-0.00
Channel Z	+ Input	20006.48	0.89	0.00
Channel Z	- Input	-20006.01	-0.27	0.00

Low Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	2001.68	0.24	0.01
Channel X	+ Input	201.09	-0.22	-0.11
Channel X	- Input	-198.93	-0.12	0.06
Channel Y	+ Input	2001.70	0.49	0.02
Channel Y	+ Input	200.70	-0.24	-0.12
Channel Y	- Input	-199.76	-0.76	0.38
Channel Z	+ Input	2001.03	-0.04	-0.00
Channel Z	+ Input	201.25	0.40	0.20
Channel Z	- Input	-199.29	-0.32	0.16

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	9.59	7.82
	- 200	-7.34	-8.76
Channel Y	200	14.74	14.93
	- 200	-16.81	-17.15
Channel Z	200	-3.39	-3.82
	- 200	3.03	3.16

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	-	3.19	-1.66
Channel Y	200	6.79	-	4.73
Channel Z	200	7.16	5.28	-

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	15972	16183
Channel Y	15900	16376
Channel Z	16167	15841

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	1.19	0.18	2.38	0.46
Channel Y	0.15	-1.39	1.24	0.47
Channel Z	0.36	-1.22	1.42	0.42

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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1226

Tejet (Sporton) SZ

IMPORTANT NOTICE

USAGE OF THE DAE4

The DAE unit is a delicate, high precision instrument and requires careful treatment by the user. There are no serviceable parts inside the DAE. Special attention shall be given to the following points:

Battery Exchange. The battery cover of the DAE4 unit is fixed using a screw, over tightening the screw may cause the threads inside the DAE to wear out.

Shipping of the DAE: Before shipping the DAE to SPEAG for calibration, remove the batteries and pack the DAE in an antistatic bag. This antistatic bag shall then be packed into a larger box or container which protects the DAE from impacts during transportation. The package shall be marked to indicate that a fragile instrument is inside.

E-Stop Failures: Touch detection may be malfunctioning due to broken magnets in the E-stop. Rough handling of the E-stop may lead to damage of these magnets. Touch and collision errors are often caused by dust and dirt accumulated in the E-stop. To prevent E-stop failure, the customer shall always mount the probe to the DAE carefully and keep the DAE unit in a non-dusty environment if not used for measurements.

Repair: Minor repairs are performed at no extra cost during the annual calibration. However, SPEAG reserves the right to charge for any repair especially if rough unprofessional handling caused the defect.

DASY Configuration Files: Since the exact values of the DAE input resistances, as measured during the calibration procedure of a DAE unit, are not used by the DASY software, a nominal value of 200 MOhm is given in the corresponding configuration file.

Important Note:
Warranty and calibration is void if the DAE unit is disassembled partly or fully by the Customer.

Important Note:
Never attempt to grease or oil the E-stop assembly. Cleaning and readjusting of the E-stop assembly is allowed by certified SPEAG personnel only and is part of the annual calibration procedure.

Important Note:
To prevent damage of the DAE probe connector pins, use great care when installing the probe to the DAE. Carefully connect the probe with the connector notch oriented in the mating position. Avoid any rotational movement of the probe body versus the DAE while turning the locking nut of the connector. The same care shall be used when disconnecting the probe from the DAE.

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Accreditation No.: SCS 0108

Client Tejet (Auden)

Certificate No: DAE4-1226_May20

CALIBRATION CERTIFICATE

Object	DAE4 - SD 000 D04 BM - SN: 1226
Calibration procedure(s)	QA CAL-06.v30 Calibration procedure for the data acquisition electronics (DAE)
Calibration date:	May 15, 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
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:	Eric Hainfeld	Laboratory Technician	
Approved by:	Sven Kühn	Deputy Manager	

Issued: May 15, 2020

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

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 =	6.1μV ,	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	404.644 ± 0.02% (k=2)	404.410 ± 0.02% (k=2)	404.128 ± 0.02% (k=2)
Low Range	3.98010 ± 1.50% (k=2)	4.00441 ± 1.50% (k=2)	3.98517 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	283.5 ° ± 1 °

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	200036.25	2.48	0.00
Channel X	+ Input	20007.54	2.38	0.01
Channel X	- Input	-20005.86	0.51	-0.00
Channel Y	+ Input	200033.61	-0.21	-0.00
Channel Y	+ Input	20003.31	-1.72	-0.01
Channel Y	- Input	-20007.95	-1.52	0.01
Channel Z	+ Input	200035.07	1.43	0.00
Channel Z	+ Input	20004.81	-0.10	-0.00
Channel Z	- Input	-20007.44	-1.01	0.01

Low Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	2000.93	0.16	0.01
Channel X	+ Input	200.14	-0.66	-0.33
Channel X	- Input	-199.83	-0.71	0.36
Channel Y	+ Input	2000.72	0.15	0.01
Channel Y	+ Input	199.44	-1.19	-0.59
Channel Y	- Input	-200.55	-1.29	0.65
Channel Z	+ Input	2000.71	0.18	0.01
Channel Z	+ Input	200.02	-0.61	-0.31
Channel Z	- Input	-199.97	-0.66	0.33

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	5.07	2.90
	- 200	-2.74	-4.97
Channel Y	200	-8.89	-9.14
	- 200	7.09	6.94
Channel Z	200	-7.29	-7.53
	- 200	5.53	5.89

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	-	2.16	-3.66
Channel Y	200	8.16	-	3.69
Channel Z	200	9.32	5.65	-

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	16032	12468
Channel Y	15897	17438
Channel Z	16001	15611

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	-0.38	-1.14	0.42	0.38
Channel Y	-0.09	-1.14	0.85	0.39
Channel Z	-0.31	-1.86	1.00	0.41

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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Accreditation No.: SCS 0108

Client **Sporton**

Certificate No: EX3-3819_Apr20

CALIBRATION CERTIFICATE

Object EX3DV4 - SN:3819

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: April 30, 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	01-Apr-20 (No. 217-03100/03101)	Apr-21
Power sensor NRP-Z91	SN: 103244	01-Apr-20 (No. 217-03100)	Apr-21
Power sensor NRP-Z91	SN: 103245	01-Apr-20 (No. 217-03101)	Apr-21
Reference 20 dB Attenuator	SN: CC2552 (20x)	31-Mar-20 (No. 217-03106)	Apr-21
DAE4	SN: 660	27-Dec-19 (No. DAE4-660_Dec19)	Dec-20
Reference Probe ES3DV2	SN: 3013	31-Dec-19 (No. ES3-3013_Dec19)	Dec-20
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20

	Name	Function	Signature
Calibrated by:	Leif Klysner	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: April 30, 2020

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Glossary:

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3819

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu V/(V/m)^2$)[A]	0.46	0.41	0.46	± 10.1 %
DCP (mV)[B]	104.6	101.5	102.0	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Max dev.	Unc[E] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	156.7	± 3.5 %	± 4.7 %
		Y	0.0	0.0	1.0		148.5		
		Z	0.0	0.0	1.0		139.2		

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

[A] The uncertainties of Norm X,Y,Z do not affect the E^2-field uncertainty inside TSL (see Page 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:3819

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	113.9
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3819

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unc (k=2)
750	41.9	0.89	9.64	9.64	9.64	0.52	0.80	± 12.0 %
835	41.5	0.90	9.39	9.39	9.39	0.50	0.80	± 12.0 %
900	41.5	0.97	9.26	9.26	9.26	0.39	0.96	± 12.0 %
1750	40.1	1.37	8.43	8.43	8.43	0.34	0.80	± 12.0 %
1900	40.0	1.40	8.10	8.10	8.10	0.37	0.80	± 12.0 %
2000	40.0	1.40	7.95	7.95	7.95	0.30	0.88	± 12.0 %
2300	39.5	1.67	7.66	7.66	7.66	0.32	0.90	± 12.0 %
2450	39.2	1.80	7.42	7.42	7.42	0.38	0.90	± 12.0 %
2600	39.0	1.96	7.22	7.22	7.22	0.38	0.90	± 12.0 %
3300	38.2	2.71	6.91	6.91	6.91	0.20	1.20	± 14.0 %
3500	37.9	2.91	6.84	6.84	6.84	0.25	1.20	± 14.0 %
3700	37.7	3.12	6.75	6.75	6.75	0.25	1.25	± 14.0 %
3900	37.5	3.32	6.40	6.40	6.40	0.30	1.60	± 14.0 %
4100	37.2	3.53	6.39	6.39	6.39	0.30	1.60	± 14.0 %
4400	36.9	3.84	6.07	6.07	6.07	0.30	1.60	± 14.0 %
4600	36.7	4.04	5.98	5.98	5.98	0.30	1.70	± 14.0 %
4800	36.4	4.25	5.88	5.88	5.88	0.45	1.80	± 14.0 %
4950	36.3	4.40	5.72	5.72	5.72	0.45	1.80	± 14.0 %
5250	35.9	4.71	5.02	5.02	5.02	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	4.63	4.63	4.63	0.40	1.80	± 14.0 %

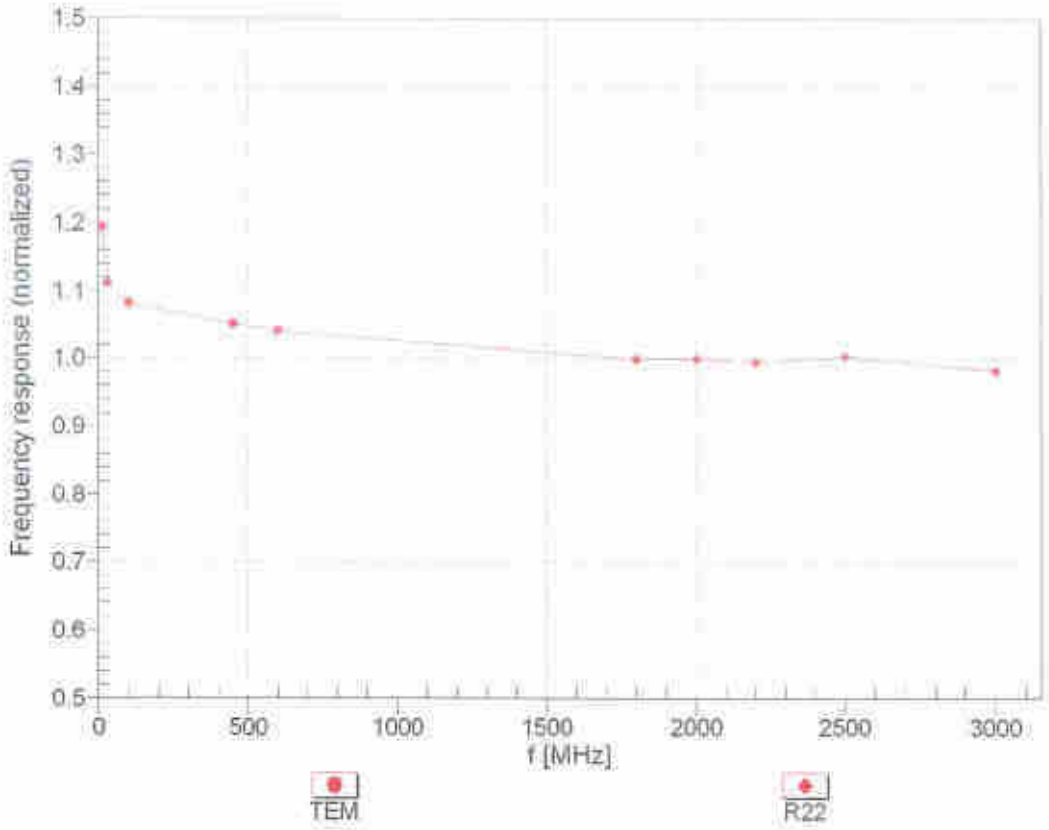
[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz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

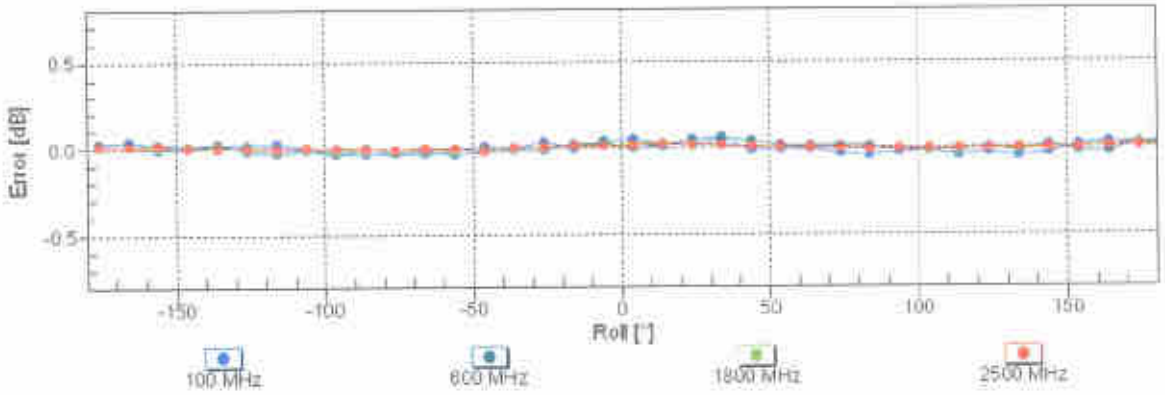


Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Receiving Pattern (ϕ), ϑ = 0°

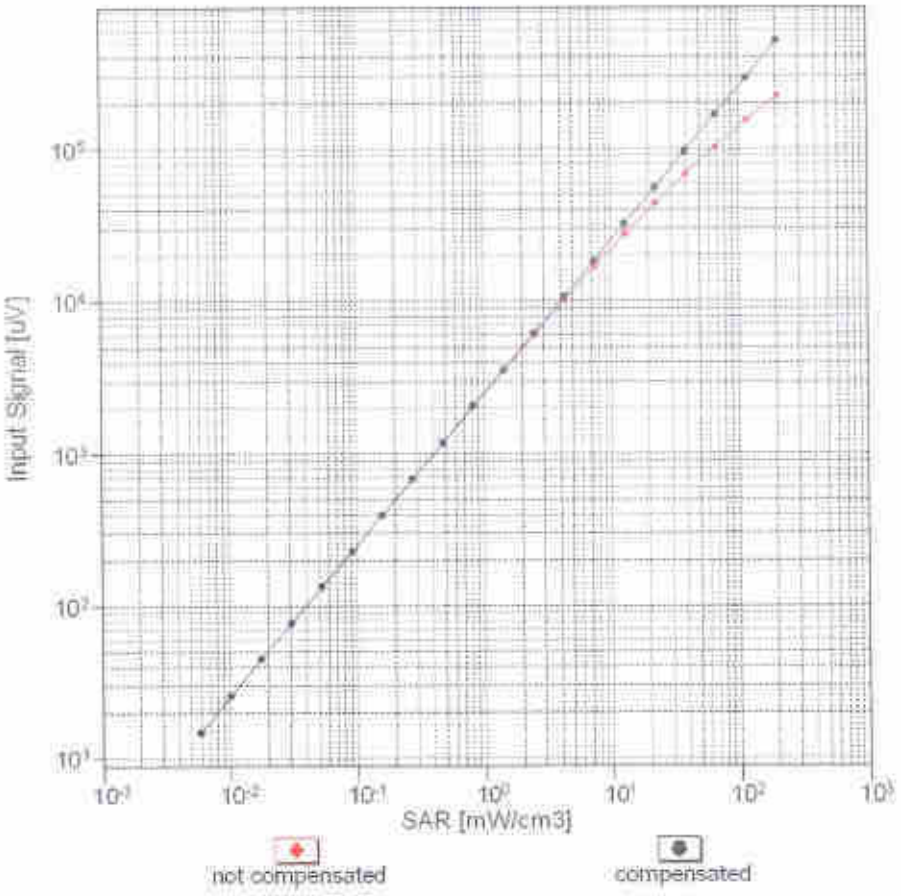
f=600 MHz,TEM

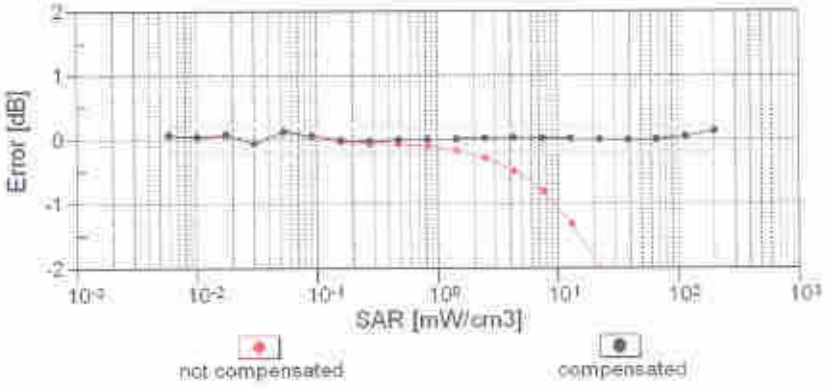
f=1800 MHz,R22



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

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

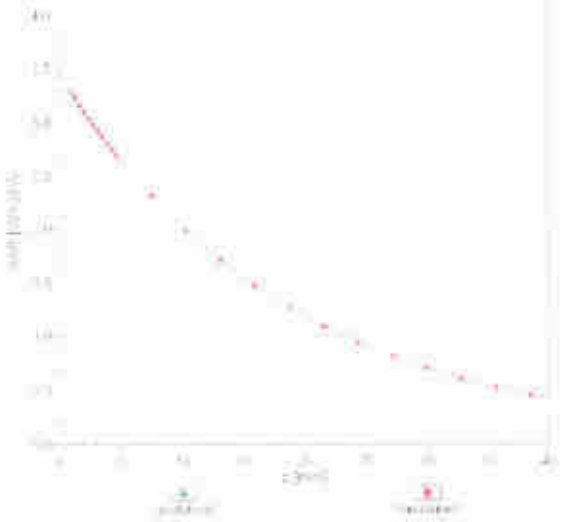




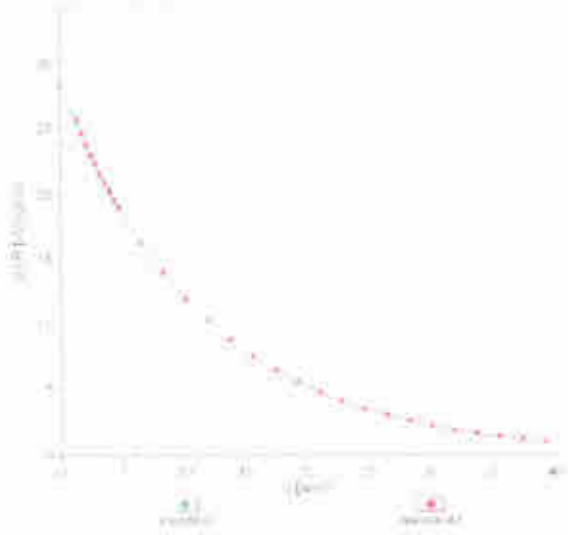
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment

f = 835 MHz,WGLS R9 (H_convF)

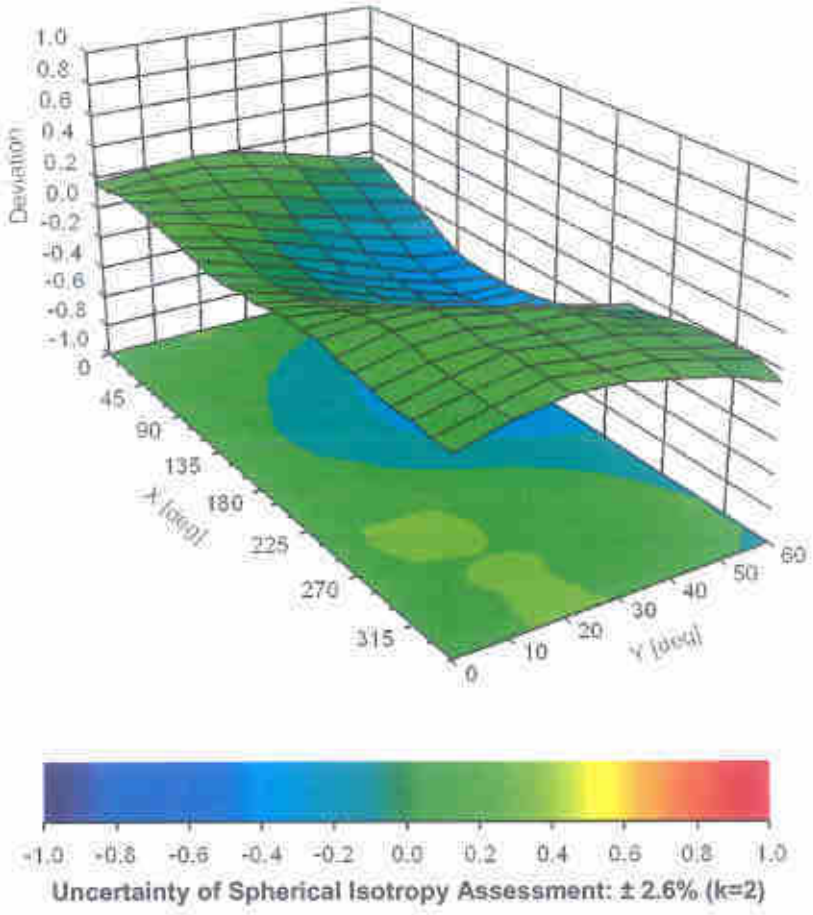


f = 1900 MHz,WGLS R22 (H_convF)



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz



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

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

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Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **EX3-7576_Jan20**

CALIBRATION CERTIFICATE

Object: EX3DV4 - SN:7576

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

Calibration date: January 22, 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: 660	27-Dec-19 (No. DAE4-660_Dec19)	Dec-20
Reference Probe ES3DV2	SN: 3013	31-Dec-19 (No. ES3-3013_Dec19)	Dec-20
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: January 25, 2020

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

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

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Accreditation No.: SCS 0108

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7576

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu V/(V/m)^2$)[A]	0.48	0.63	0.63	± 10.1 %
DCP (mV)[B]	103.8	99.8	103.6	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Max dev.	Unc[E] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	164.4	± 2.7 %	± 4.7 %
		Y	0.0	0.0	1.0		161.8		
		Z	0.0	0.0	1.0		164.7		

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:7576

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	112.2
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7576

Calibration Parameter Determined in Head Tissue Simulating Media

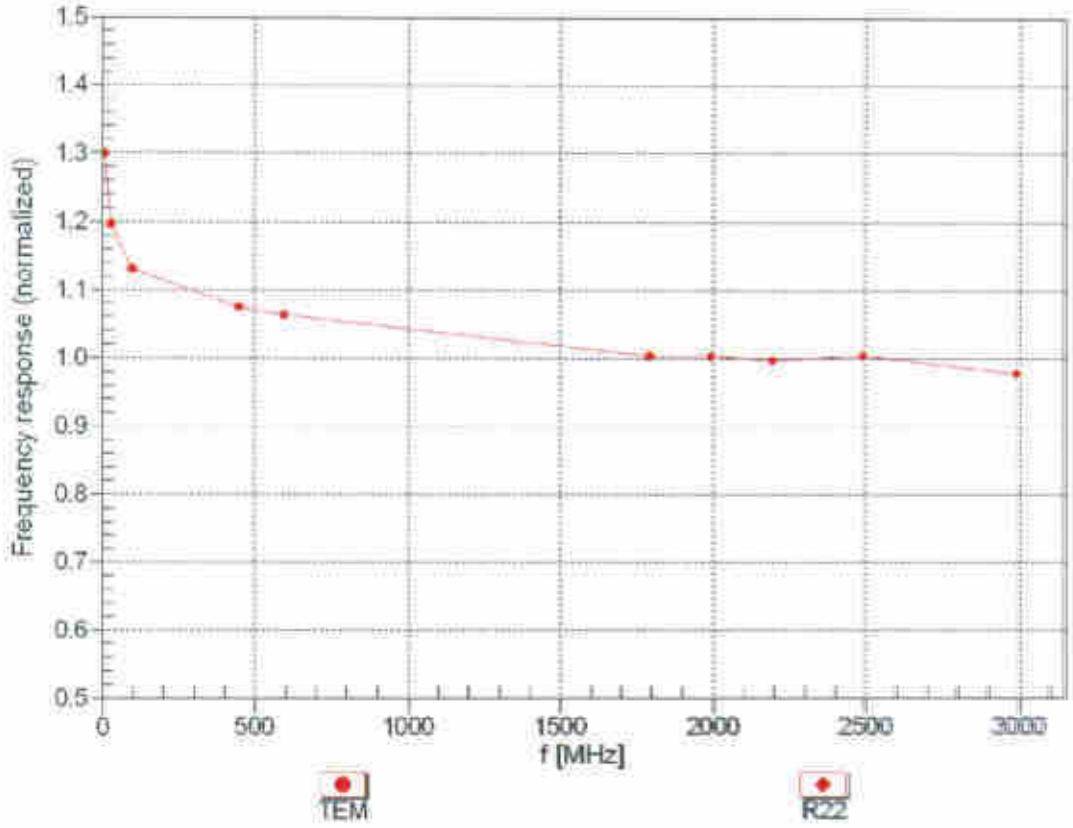
f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [D]	Depth [D] (mm)	Unc (k=2)
750	41.9	0.89	10.71	10.71	10.71	0.62	0.80	± 12.0 %
835	41.5	0.90	10.45	10.45	10.45	0.46	0.94	± 12.0 %
900	41.5	0.97	10.16	10.16	10.16	0.33	1.09	± 12.0 %
1750	40.1	1.37	8.88	8.88	8.88	0.42	0.86	± 12.0 %
1900	40.0	1.40	8.58	8.58	8.58	0.38	0.86	± 12.0 %
2000	40.0	1.40	8.48	8.48	8.48	0.39	0.86	± 12.0 %
2300	39.5	1.67	8.03	8.03	8.03	0.41	0.90	± 12.0 %
2450	39.2	1.80	7.76	7.76	7.76	0.44	0.90	± 12.0 %
2600	39.0	1.96	7.47	7.47	7.47	0.41	0.96	± 12.0 %
3300	38.2	2.71	7.08	7.08	7.08	0.30	1.35	± 14.0 %
3500	37.9	2.91	6.77	6.77	6.77	0.30	1.35	± 14.0 %
3700	37.7	3.12	6.74	6.74	6.74	0.30	1.35	± 14.0 %
3900	37.5	3.32	6.56	6.56	6.56	0.40	1.40	± 14.0 %
4100	37.2	3.53	6.26	6.26	6.26	0.40	1.40	± 14.0 %
4400	36.9	3.84	6.19	6.19	6.19	0.40	1.60	± 14.0 %
4600	36.7	4.04	6.06	6.06	6.06	0.40	1.60	± 14.0 %
4800	36.4	4.25	5.89	5.89	5.89	0.40	1.80	± 14.0 %
4950	36.3	4.40	5.59	5.59	5.59	0.40	1.80	± 14.0 %
5250	35.9	4.71	5.20	5.20	5.20	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.62	4.62	4.62	0.40	1.80	± 14.0 %
5750	35.4	5.22	4.83	4.83	4.83	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.

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

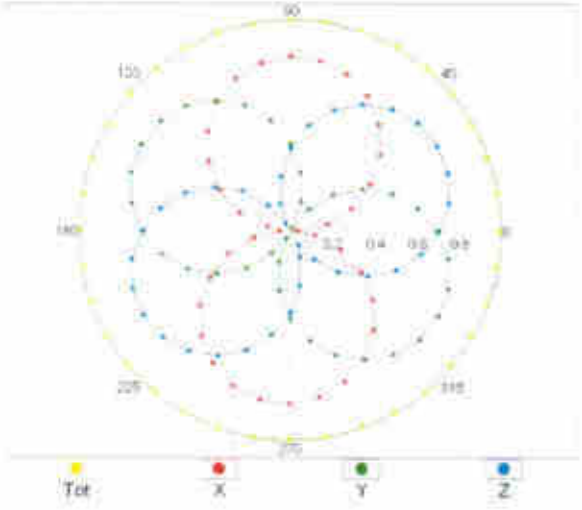
Frequency Response of E-Field
(TEM-Cell:ifi110 EXX, Waveguide: R22)



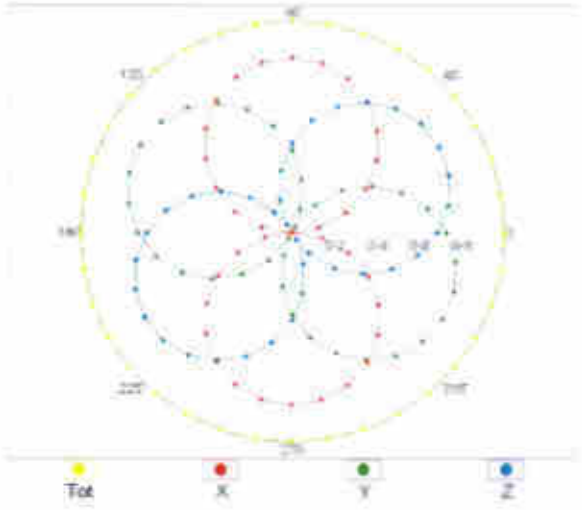
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

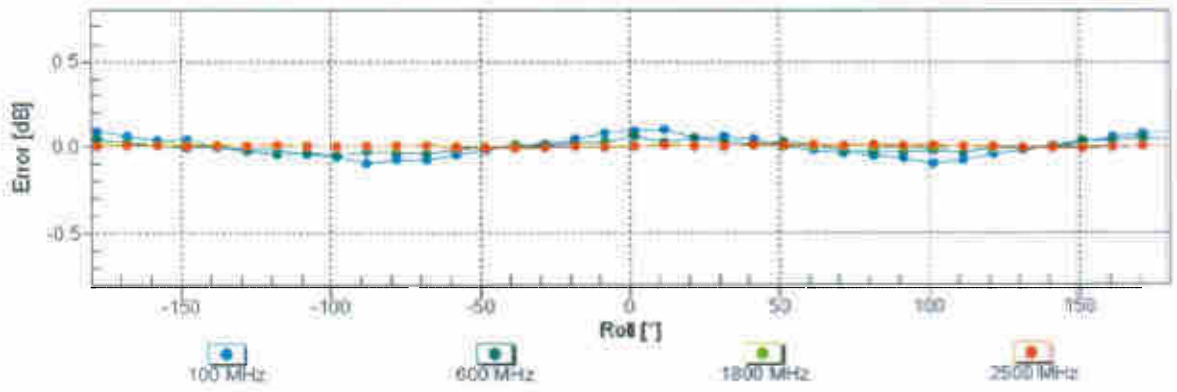
Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM



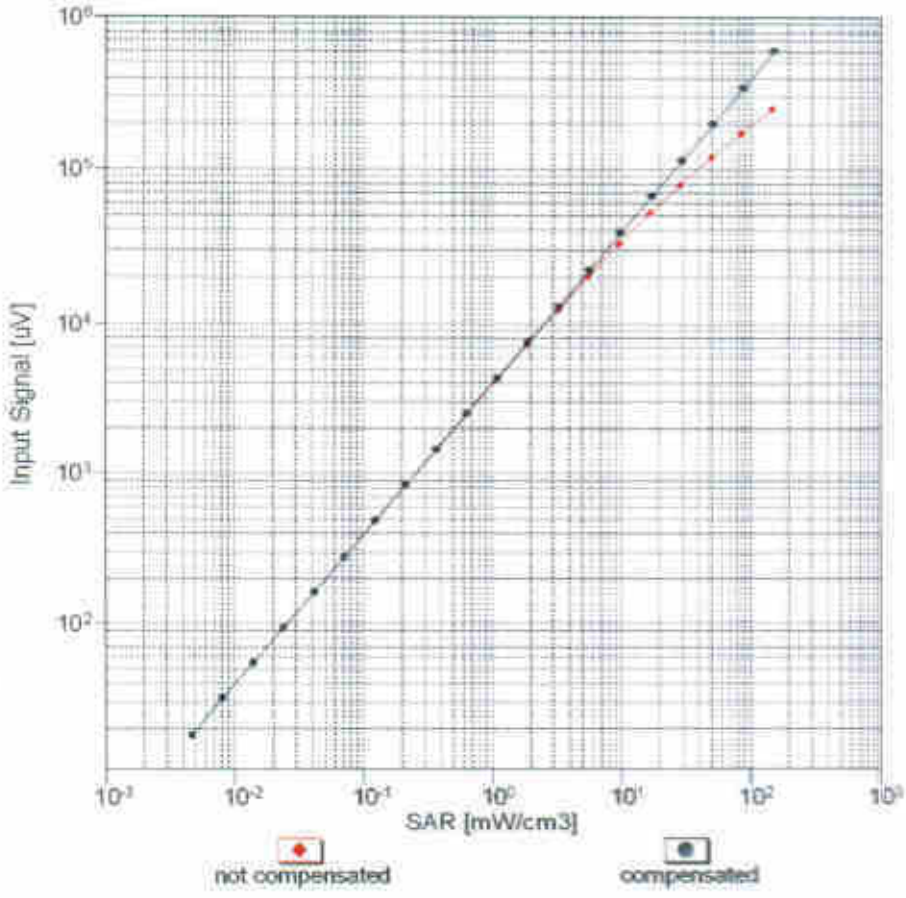
f=1800 MHz,R22

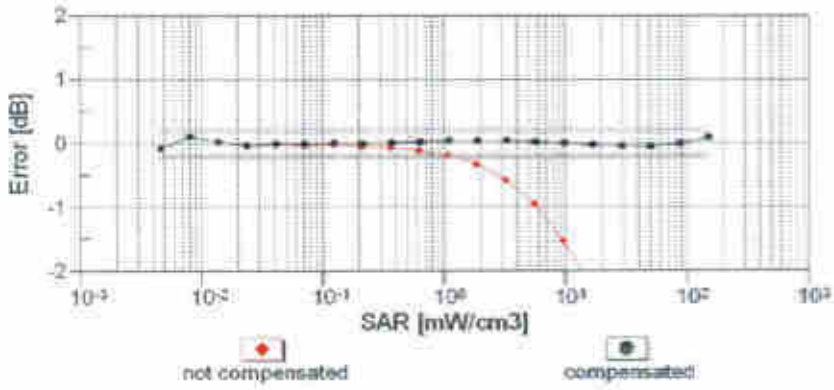




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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

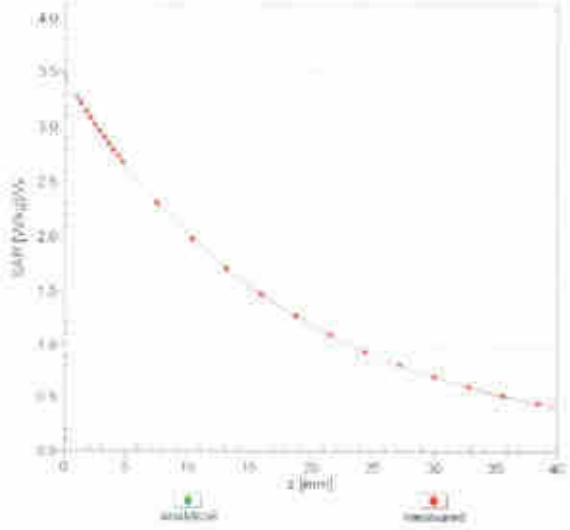




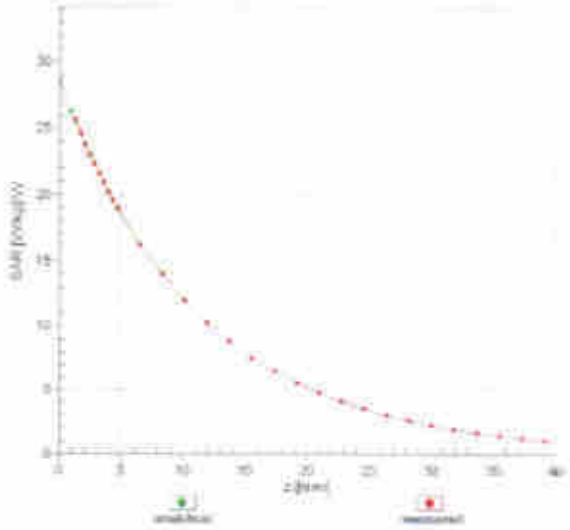
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment

f = 835 MHz,WGLS R9 (H_convF)

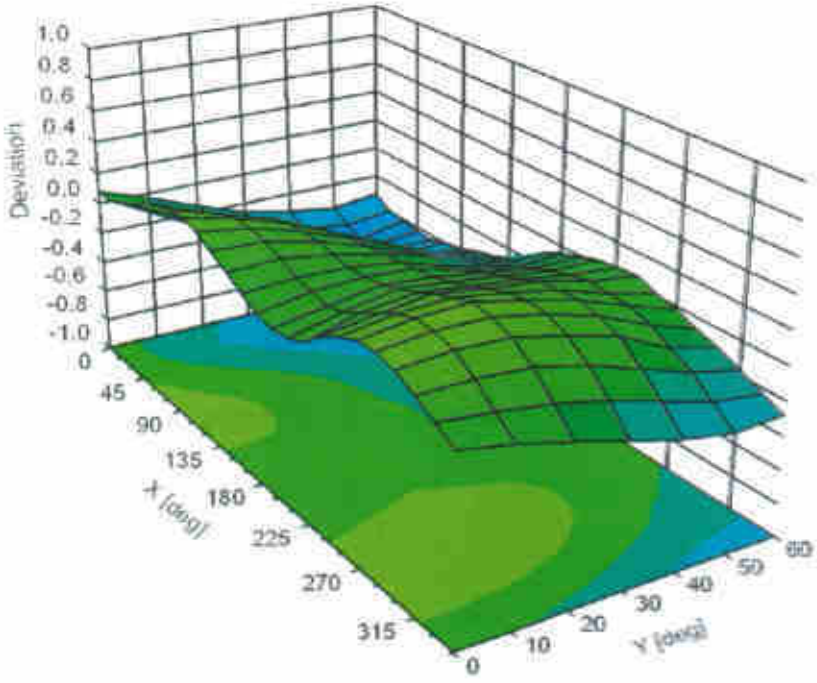


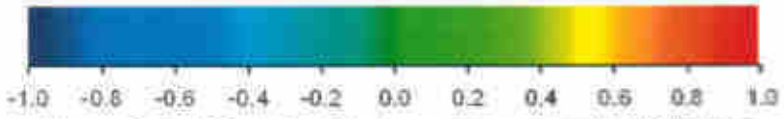
f = 1900 MHz,WGLS R22 (H_convF)



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz





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

Appendix E. Conducted RF Output Power Table

The detailed power tables are shown as follows.

Full Power for UAT

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	30.88	30.93	31.07	32.30	21.88	21.93	22.07	23.30
GPRS 1 Tx slot	30.81	30.82	31.01	32.30	21.81	21.82	22.01	23.30
GPRS 2 Tx slots	29.01	29.46	29.42	30.80	23.01	23.46	23.42	24.80
GPRS 3 Tx slots	27.55	27.74	27.87	29.30	23.29	23.48	23.61	25.04
GPRS 4 Tx slots	26.61	26.68	26.72	28.00	23.61	23.68	23.72	25.00
EDGE 1 Tx slot	24.83	24.90	25.27	26.30	15.83	15.90	16.27	17.30
EDGE 2 Tx slots	23.23	23.25	23.56	24.30	17.23	17.25	17.56	18.30
EDGE 3 Tx slots	22.12	22.23	22.43	23.30	17.86	17.97	18.17	19.04
EDGE 4 Tx slots	21.44	21.82	21.75	22.70	18.44	18.82	18.75	19.70

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.74	26.74	26.77	28.30	17.74	17.74	17.77	19.30
GPRS 1 Tx slot	26.72	26.72	26.73	28.30	17.72	17.72	17.73	19.30
GPRS 2 Tx slots	24.17	24.27	24.30	25.80	18.17	18.27	18.30	19.80
GPRS 3 Tx slots	23.13	23.10	23.16	24.50	18.87	18.84	18.90	20.24
GPRS 4 Tx slots	21.59	21.32	21.51	23.00	18.59	18.32	18.51	20.00
EDGE 1 Tx slot	22.54	22.46	22.83	23.80	13.54	13.46	13.83	14.80
EDGE 2 Tx slots	21.41	21.29	21.55	22.70	15.41	15.26	15.55	16.70
EDGE 3 Tx slots	20.35	20.52	20.51	21.60	16.09	16.26	16.25	17.34
EDGE 4 Tx slots	19.38	19.18	19.32	20.60	16.38	16.18	16.32	17.60

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	21.52	21.58	21.51	22.80	21.37	21.46	21.43	22.80	23.03	23.13	23.15	24.30
3GPP Rel 99	RMC 12.2Kbps	21.59	21.61	21.54	22.80	21.38	21.47	21.49	22.80	23.05	23.18	23.16	24.30
3GPP Rel 6	HSDPA Subtest-1	20.64	20.67	20.61	21.80	20.39	20.51	20.49	21.80	21.87	21.90	21.91	23.30
3GPP Rel 6	HSDPA Subtest-2	20.60	20.64	20.61	21.80	20.42	20.53	20.52	21.80	21.85	21.92	21.92	23.30
3GPP Rel 6	HSDPA Subtest-3	19.80	20.17	20.06	21.30	19.93	20.01	20.01	21.30	21.39	21.44	21.37	22.80
3GPP Rel 6	HSDPA Subtest-4	20.14	20.15	20.08	21.30	19.96	20.02	19.98	21.30	21.38	21.41	21.38	22.80
3GPP Rel 8	DC-HSDPA Subtest-1	20.40	20.45	20.38	21.80	20.19	20.27	20.32	21.80	21.69	21.67	21.75	23.30
3GPP Rel 8	DC-HSDPA Subtest-2	20.44	20.50	20.43	21.80	20.27	20.33	20.35	21.80	21.66	21.77	21.71	23.30
3GPP Rel 8	DC-HSDPA Subtest-3	19.58	19.96	19.85	21.30	19.78	19.86	19.82	21.30	21.20	21.20	21.23	22.80
3GPP Rel 8	DC-HSDPA Subtest-4	19.94	20.01	19.86	21.30	19.82	19.80	19.76	21.30	21.21	21.24	21.15	22.80
3GPP Rel 6	HSUPA Subtest-1	20.63	20.71	20.61	21.80	20.45	20.60	20.58	21.80	21.85	21.90	21.95	23.30
3GPP Rel 6	HSUPA Subtest-2	19.65	19.68	19.64	20.80	19.41	19.58	19.52	20.80	19.86	19.90	19.91	21.30
3GPP Rel 6	HSUPA Subtest-3	17.64	17.66	17.66	18.80	18.30	18.52	18.43	19.80	20.71	20.89	20.91	22.30
3GPP Rel 6	HSUPA Subtest-4	18.42	18.45	18.44	19.80	19.29	19.37	19.31	19.80	19.85	19.86	19.96	21.30
3GPP Rel 6	HSUPA Subtest-5	20.60	20.70	20.60	21.80	20.50	20.50	20.50	21.80	21.90	21.90	21.90	23.30
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.21	18.24	18.17	19.30	19.17	19.27	19.15	19.30	19.53	19.61	19.73	20.80

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	22.84	22.93	22.59	24.30	21.65	21.76	21.63	22.80	22.84	22.91	22.83	24.30
RC3 SO55	22.82	22.91	22.57	24.30	21.63	21.73	21.65	22.80	22.82	22.85	22.82	24.30
RC3 SO32 (F-SCH)	22.81	22.90	22.56	24.30	21.65	21.73	21.64	22.80	22.82	22.84	22.80	24.30
RC3 SO32 (I-SCH)	22.70	22.79	22.54	24.30	21.52	21.58	21.58	22.80	22.71	22.73	22.42	24.30
RTAP 153.6Kbps	22.81	22.91	22.54	24.30	21.47	21.50	21.31	22.80	22.82	22.89	22.81	24.30
RETAP 4096Bits	22.79	22.87	22.52	24.30	21.43	21.46	21.27	22.80	22.79	22.86	22.80	24.30

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				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	20.65	20.72	20.54	21.8	0
20	QPSK	1	49	20.56	20.52	20.48		
20	QPSK	1	99	20.49	20.50	20.48		
20	QPSK	50	0	19.70	19.76	19.62	20.8	1
20	QPSK	50	24	19.68	19.75	19.60		
20	QPSK	50	50	19.69	19.65	19.55		
20	QPSK	100	0	19.67	19.73	19.72		
20	16QAM	1	0	19.99	20.07	19.98	20.8	1
20	16QAM	1	49	19.94	19.86	19.84		
20	16QAM	1	99	19.83	19.82	19.74		
20	16QAM	50	0	18.72	18.79	18.65	19.8	2
20	16QAM	50	24	18.69	18.72	18.72		
20	16QAM	50	50	18.72	18.67	18.66		
20	16QAM	100	0	18.66	18.71	18.69		
20	64QAM	1	0	18.82	18.87	18.73	19.8	2
20	64QAM	1	49	18.77	18.75	18.75		
20	64QAM	1	99	18.76	18.65	18.72		
20	64QAM	50	0	17.74	17.80	17.65	18.8	3
20	64QAM	50	24	17.72	17.78	17.72		
20	64QAM	50	50	17.73	17.73	17.68		
20	64QAM	100	0	17.70	17.74	17.71		
20	256QAM	1	0	16.07	15.88	15.70	17.3	4.5
20	256QAM	1	49	15.87	16.08	15.94		
20	256QAM	1	99	16.06	16.05	16.12		
20	256QAM	50	0	15.92	15.96	15.88	17.3	4.5
20	256QAM	50	24	15.86	15.93	15.80		
20	256QAM	50	50	15.86	15.95	15.88		
20	256QAM	100	0	15.84	15.89	15.79		
Channel				19175	19000	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	20.63	20.64	20.61	21.8	0
15	QPSK	1	37	20.62	20.66	20.65		
15	QPSK	1	74	20.66	20.61	20.66		
15	QPSK	36	0	19.83	19.79	19.71	20.8	1
15	QPSK	36	20	19.83	19.80	19.75		
15	QPSK	36	39	19.80	19.85	19.80		
15	QPSK	75	0	19.82	19.78	19.72		
15	16QAM	1	0	20.11	20.08	20.09	20.8	1
15	16QAM	1	37	20.00	20.03	19.98		
15	16QAM	1	74	19.99	19.97	19.90		
15	16QAM	36	0	18.83	18.78	18.73	19.8	2
15	16QAM	36	20	18.83	18.80	18.73		
15	16QAM	36	39	18.79	18.85	18.81		
15	16QAM	75	0	18.82	18.78	18.73		
15	64QAM	1	0	18.96	18.92	18.87	19.8	2
15	64QAM	1	37	18.94	18.96	18.80		
15	64QAM	1	74	18.84	18.90	18.90		
15	64QAM	36	0	17.85	17.81	17.79	18.8	3
15	64QAM	36	20	17.87	17.83	17.79		
15	64QAM	36	39	17.86	17.87	17.85		
15	64QAM	75	0	17.82	17.78	17.73		
15	256QAM	1	0	16.13	15.89	15.66	17.3	4.5
15	256QAM	1	37	15.77	16.15	15.90		
15	256QAM	1	74	16.00	16.15	16.08		
15	256QAM	36	0	15.82	15.90	15.97	17.3	4.5
15	256QAM	36	20	15.78	16.01	15.76		
15	256QAM	36	39	15.93	15.90	15.79		
15	256QAM	75	0	15.83	15.85	15.82		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	20.68	20.66	20.63	21.8	0
10	QPSK	1	25	20.63	20.65	20.64		
10	QPSK	1	49	20.62	20.69	20.64		
10	QPSK	25	0	19.79	19.75	19.64	20.8	1
10	QPSK	25	12	19.84	19.75	19.75		
10	QPSK	25	25	19.83	19.86	19.77		
10	QPSK	50	0	19.81	19.74	19.74		
10	16QAM	1	0	20.07	20.03	20.05	20.8	1
10	16QAM	1	25	20.02	20.08	20.04		
10	16QAM	1	49	20.02	20.08	19.98		
10	16QAM	25	0	18.79	18.71	18.60	19.8	2
10	16QAM	25	12	18.82	18.74	18.78		
10	16QAM	25	25	18.80	18.79	18.76		
10	16QAM	50	0	18.81	18.72	18.73		
10	64QAM	1	0	18.95	18.88	18.81	19.8	2
10	64QAM	1	25	18.95	19.00	18.82		
10	64QAM	1	49	18.93	18.94	18.88		
10	64QAM	25	0	17.85	17.90	17.81	18.8	3
10	64QAM	25	12	17.88	17.91	17.91		
10	64QAM	25	25	17.85	18.00	17.92		
10	64QAM	50	0	17.85	17.94	17.91		
10	256QAM	1	0	15.98	15.89	15.73	17.3	4.5
10	256QAM	1	25	15.89	16.15	15.93		
10	256QAM	1	49	16.08	16.14	16.15		
10	256QAM	25	0	15.97	15.92	15.85	17.3	4.5
10	256QAM	25	12	15.84	15.83	15.77		
10	256QAM	25	25	15.91	15.85	15.86		
10	256QAM	50	0	15.94	15.92	15.77		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	20.58	20.62	20.55	21.8	0
5	QPSK	1	12	20.71	20.68	20.65		
5	QPSK	1	24	20.62	20.69	20.66		
5	QPSK	12	0	19.83	19.76	19.66	20.8	1
5	QPSK	12	7	19.84	19.81	19.72		
5	QPSK	12	13	19.81	19.83	19.72		
5	QPSK	25	0	19.83	19.76	19.64		
5	16QAM	1	0	20.07	19.93	19.93	20.8	1
5	16QAM	1	12	20.05	20.07	19.96		
5	16QAM	1	24	20.08	20.09	20.03		
5	16QAM	12	0	18.85	18.74	18.68	19.8	2
5	16QAM	12	7	18.84	18.85	18.70		
5	16QAM	12	13	18.83	18.83	18.71		
5	16QAM	25	0	18.82	18.76	18.70		
5	64QAM	1	0	18.97	18.88	18.85	19.8	2
5	64QAM	1	12	18.92	18.96	18.88		
5	64QAM	1	24	19.01	19.03	18.94		
5	64QAM	12	0	17.90	17.82	17.85	18.8	3
5	64QAM	12	7	17.89	17.92	17.85		
5	64QAM	12	13	17.86	17.87	17.89		
5	64QAM	25	0	17.85	17.80	17.83		
5	256QAM	1	0	15.99	15.83	15.73	17.3	4.5
5	256QAM	1	12	15.92	16.05	15.90		
5	256QAM	1	24	15.97	16.04	16.03		
5	256QAM	12	0	15.88	15.86	15.87	17.3	4.5
5	256QAM	12	7	15.95	16.03	15.75		
5	256QAM	12	13	15.89	16.05	15.82		
5	256QAM	25	0	15.82	15.88	15.87		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	20.58	20.63	20.62	21.8	0
3	QPSK	1	8	20.71	20.69	20.69		
3	QPSK	1	14	20.69	20.70	20.63		
3	QPSK	8	0	19.84	19.74	19.71	20.8	1
3	QPSK	8	4	19.83	19.81	19.72		
3	QPSK	8	7	19.83	19.79	19.71		
3	QPSK	15	0	19.79	19.76	19.67		
3	16QAM	1	0	20.02	19.98	19.98	20.8	1
3	16QAM	1	8	20.16	20.07	20.08		
3	16QAM	1	14	20.07	20.02	19.98		
3	16QAM	8	0	18.86	18.82	18.76	19.8	2
3	16QAM	8	4	18.93	18.89	18.81		
3	16QAM	8	7	18.87	18.83	18.74		
3	16QAM	15	0	18.83	18.77	18.73		
3	64QAM	1	0	18.94	18.87	18.87	19.8	2
3	64QAM	1	8	19.04	19.01	18.97		
3	64QAM	1	14	18.97	18.99	18.89		
3	64QAM	8	0	17.91	17.81	17.85	18.8	3
3	64QAM	8	4	17.90	17.88	17.89		
3	64QAM	8	7	17.90	17.85	17.90		
3	64QAM	15	0	17.83	17.81	17.90		
3	256QAM	1	0	16.10	15.82	15.68	17.3	4.5
3	256QAM	1	8	15.93	16.17	15.98		
3	256QAM	1	14	15.96	15.96	16.05		
3	256QAM	8	0	16.02	15.90	15.95	17.3	4.5
3	256QAM	8	4	15.93	15.98	15.90		
3	256QAM	8	7	15.96	15.98	15.89		
3	256QAM	15	0	15.75	15.86	15.74		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	20.65	20.61	20.53	21.8	0
1.4	QPSK	1	3	20.70	20.65	20.59		
1.4	QPSK	1	5	20.66	20.62	20.54		
1.4	QPSK	3	0	20.66	20.61	20.55		
1.4	QPSK	3	1	20.70	20.64	20.59		
1.4	QPSK	3	3	20.68	20.61	20.57		
1.4	QPSK	6	0	19.78	19.72	19.63	20.8	1
1.4	16QAM	1	0	19.97	19.93	19.84	20.8	1
1.4	16QAM	1	3	20.00	19.96	19.91		
1.4	16QAM	1	5	19.97	19.92	19.85		
1.4	16QAM	3	0	19.77	19.74	19.69		
1.4	16QAM	3	1	19.79	19.79	19.72		
1.4	16QAM	3	3	19.77	19.70	19.63		
1.4	16QAM	6	0	18.85	18.79	18.69	19.8	2
1.4	64QAM	1	0	18.91	18.86	18.81	19.8	2
1.4	64QAM	1	3	18.99	18.93	18.86		
1.4	64QAM	1	5	18.95	18.87	18.80		
1.4	64QAM	3	0	18.88	18.86	18.82		
1.4	64QAM	3	1	18.92	18.89	18.83		
1.4	64QAM	3	3	18.84	18.86	18.80		
1.4	64QAM	6	0	17.81	17.83	17.80	18.8	3
1.4	256QAM	1	0	16.06	15.93	15.69	17.3	4.5
1.4	256QAM	1	3	15.93	16.11	15.85		
1.4	256QAM	1	5	15.99	16.00	16.10		
1.4	256QAM	3	0	16.00	15.92	15.98		
1.4	256QAM	3	1	15.82	15.92	15.82		
1.4	256QAM	3	3	15.94	15.89	15.98		
1.4	256QAM	6	0	15.88	15.89	15.74	17.3	4.5

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				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	20.55	20.61	20.58	21.8	0
20	QPSK	1	49	20.37	20.41	20.38		
20	QPSK	1	99	20.35	20.44	20.39		
20	QPSK	50	0	19.55	19.64	19.61	20.8	1
20	QPSK	50	24	19.53	19.62	19.57		
20	QPSK	50	50	19.48	19.52	19.57		
20	QPSK	100	0	19.54	19.60	19.54		
20	16QAM	1	0	19.87	19.91	19.93	20.8	1
20	16QAM	1	49	19.70	19.74	19.74		
20	16QAM	1	99	19.67	19.67	19.77		
20	16QAM	50	0	18.56	18.62	18.65	19.8	2
20	16QAM	50	24	18.57	18.62	18.58		
20	16QAM	50	50	18.49	18.54	18.58		
20	16QAM	100	0	18.52	18.59	18.53		
20	64QAM	1	0	18.69	18.78	18.77	19.8	2
20	64QAM	1	49	18.54	18.64	18.53		
20	64QAM	1	99	18.51	18.60	18.63		
20	64QAM	50	0	17.56	17.64	17.68	18.8	3
20	64QAM	50	24	17.56	17.65	17.59		
20	64QAM	50	50	17.47	17.53	17.58		
20	64QAM	100	0	17.55	17.62	17.56		
20	256QAM	1	0	16.06	16.01	16.03	17.3	4.5
20	256QAM	1	49	15.93	16.04	15.92		
20	256QAM	1	99	16.07	16.03	15.81		
20	256QAM	50	0	15.98	15.87	15.87	17.3	4.5
20	256QAM	50	24	15.88	15.85	15.78		
20	256QAM	50	50	15.92	15.88	15.84		
20	256QAM	100	0	15.95	15.81	15.84		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	20.53	20.57	20.53	21.8	0
15	QPSK	1	37	20.32	20.38	20.45		
15	QPSK	1	74	20.34	20.39	20.42		
15	QPSK	36	0	19.53	19.59	19.61	20.8	1
15	QPSK	36	20	19.51	19.61	19.60		
15	QPSK	36	39	19.47	19.51	19.56		
15	QPSK	75	0	19.53	19.57	19.61		
15	16QAM	1	0	19.82	19.89	20.02	20.8	1
15	16QAM	1	37	19.65	19.75	19.79		
15	16QAM	1	74	19.66	19.67	19.76		
15	16QAM	36	0	18.50	18.60	18.61	19.8	2
15	16QAM	36	20	18.53	18.58	18.59		
15	16QAM	36	39	18.46	18.53	18.55		
15	16QAM	75	0	18.52	18.59	18.61		
15	64QAM	1	0	18.61	18.79	18.69	19.8	2
15	64QAM	1	37	18.54	18.68	18.64		
15	64QAM	1	74	18.50	18.60	18.59		
15	64QAM	36	0	17.52	17.64	17.68	18.8	3
15	64QAM	36	20	17.54	17.63	17.64		
15	64QAM	36	39	17.51	17.55	17.59		
15	64QAM	75	0	17.54	17.61	17.63		
15	256QAM	1	0	15.96	15.94	16.04	17.3	4.5
15	256QAM	1	37	15.92	15.97	15.92		
15	256QAM	1	74	15.99	16.05	15.71		
15	256QAM	36	0	15.90	15.86	15.81	17.3	4.5
15	256QAM	36	20	15.86	15.85	15.85		
15	256QAM	36	39	15.88	15.85	15.87		
15	256QAM	75	0	15.93	15.80	15.91		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	20.36	20.44	20.37	21.8	0
10	QPSK	1	25	20.41	20.45	20.45		
10	QPSK	1	49	20.37	20.38	20.44		
10	QPSK	25	0	19.48	19.51	19.51	20.8	1
10	QPSK	25	12	19.57	19.64	19.64		
10	QPSK	25	25	19.57	19.60	19.62		
10	QPSK	50	0	19.57	19.64	19.62		
10	16QAM	1	0	19.75	19.84	19.84	20.8	1
10	16QAM	1	25	19.71	19.81	19.84		
10	16QAM	1	49	19.74	19.80	19.82		
10	16QAM	25	0	18.45	18.52	18.54	19.8	2
10	16QAM	25	12	18.57	18.66	18.66		
10	16QAM	25	25	18.57	18.63	18.59		
10	16QAM	50	0	18.55	18.60	18.62		
10	64QAM	1	0	18.62	18.65	18.68	19.8	2
10	64QAM	1	25	18.69	18.68	18.75		
10	64QAM	1	49	18.64	18.70	18.75		
10	64QAM	25	0	17.52	17.57	17.55	18.8	3
10	64QAM	25	12	17.61	17.65	17.66		
10	64QAM	25	25	17.60	17.67	17.64		
10	64QAM	50	0	17.58	17.67	17.65		
10	256QAM	1	0	16.07	15.94	15.97	17.3	4.5
10	256QAM	1	25	16.00	15.95	15.98		
10	256QAM	1	49	16.01	16.06	15.72		
10	256QAM	25	0	16.06	15.93	15.86	17.3	4.5
10	256QAM	25	12	15.79	15.91	15.76		
10	256QAM	25	25	16.00	15.96	15.80		
10	256QAM	50	0	16.04	15.80	15.86		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	20.34	20.38	20.39	21.8	0
5	QPSK	1	12	20.44	20.49	20.50		
5	QPSK	1	24	20.43	20.51	20.52		
5	QPSK	12	0	19.49	19.53	19.48	20.8	1
5	QPSK	12	7	19.56	19.66	19.64		
5	QPSK	12	13	19.56	19.61	19.61		
5	QPSK	25	0	19.56	19.59	19.59		
5	16QAM	1	0	19.72	19.75	19.74	20.8	1
5	16QAM	1	12	19.74	19.84	19.74		
5	16QAM	1	24	19.77	19.90	19.83		
5	16QAM	12	0	18.48	18.54	18.52	19.8	2
5	16QAM	12	7	18.56	18.68	18.64		
5	16QAM	12	13	18.59	18.63	18.61		
5	16QAM	25	0	18.55	18.59	18.57		
5	64QAM	1	0	18.68	18.69	18.75	19.8	2
5	64QAM	1	12	18.66	18.70	18.70		
5	64QAM	1	24	18.71	18.77	18.74		
5	64QAM	12	0	17.55	17.74	17.58	18.8	3
5	64QAM	12	7	17.62	17.72	17.72		
5	64QAM	12	13	17.60	17.68	17.67		
5	64QAM	25	0	17.54	17.60	17.59		
5	256QAM	1	0	16.08	15.98	16.05	17.3	4.5
5	256QAM	1	12	15.89	16.13	15.84		
5	256QAM	1	24	16.05	15.96	15.82		
5	256QAM	12	0	16.00	15.87	15.77	17.3	4.5
5	256QAM	12	7	15.98	15.76	15.83		
5	256QAM	12	13	15.89	15.98	15.76		
5	256QAM	25	0	15.88	15.85	15.83		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	20.29	20.43	20.41	21.8	0
3	QPSK	1	8	20.48	20.53	20.52		
3	QPSK	1	14	20.41	20.49	20.51		
3	QPSK	8	0	19.50	19.55	19.48	20.8	1
3	QPSK	8	4	19.58	19.59	19.63		
3	QPSK	8	7	19.48	19.59	19.59		
3	QPSK	15	0	19.55	19.62	19.48		
3	16QAM	1	0	19.69	19.69	19.73	20.8	1
3	16QAM	1	8	19.85	19.84	19.85		
3	16QAM	1	14	19.76	19.82	19.77		
3	16QAM	8	0	18.61	18.61	18.64	19.8	2
3	16QAM	8	4	18.64	18.69	18.69		
3	16QAM	8	7	18.60	18.69	18.65		
3	16QAM	15	0	18.58	18.64	18.54		
3	64QAM	1	0	18.64	18.66	18.67	19.8	2
3	64QAM	1	8	18.78	18.81	18.75		
3	64QAM	1	14	18.72	18.79	18.77		
3	64QAM	8	0	17.56	17.60	17.54	18.8	3
3	64QAM	8	4	17.63	17.71	17.66		
3	64QAM	8	7	17.61	17.68	17.68		
3	64QAM	15	0	17.56	17.63	17.54		
3	256QAM	1	0	16.14	16.00	16.03	17.3	4.5
3	256QAM	1	8	15.89	16.09	15.82		
3	256QAM	1	14	16.14	16.00	15.90		
3	256QAM	8	0	16.05	15.94	15.94	17.3	4.5
3	256QAM	8	4	15.83	15.86	15.70		
3	256QAM	8	7	15.90	15.93	15.83		
3	256QAM	15	0	16.04	15.84	15.78		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	20.29	20.38	20.32	21.8	0
1.4	QPSK	1	3	20.38	20.45	20.45		
1.4	QPSK	1	5	20.32	20.38	20.38		
1.4	QPSK	3	0	20.35	20.40	20.31		
1.4	QPSK	3	1	20.41	20.48	20.34		
1.4	QPSK	3	3	20.34	20.41	20.42		
1.4	QPSK	6	0	19.45	19.51	19.44	20.8	1
1.4	16QAM	1	0	19.67	19.71	19.64	20.8	1
1.4	16QAM	1	3	19.72	19.79	19.78		
1.4	16QAM	1	5	19.63	19.71	19.71		
1.4	16QAM	3	0	19.44	19.54	19.39		
1.4	16QAM	3	1	19.48	19.60	19.45		
1.4	16QAM	3	3	19.44	19.54	19.49		
1.4	16QAM	6	0	18.50	18.59	18.48	19.8	2
1.4	64QAM	1	0	18.87	18.98	18.84	19.8	2
1.4	64QAM	1	3	18.97	19.04	18.98		
1.4	64QAM	1	5	18.90	18.99	18.92		
1.4	64QAM	3	0	18.81	18.95	18.83		
1.4	64QAM	3	1	18.89	19.00	18.90		
1.4	64QAM	3	3	18.83	18.89	18.95		
1.4	64QAM	6	0	17.80	17.85	17.81	18.8	3
1.4	256QAM	1	0	16.06	16.07	16.03	17.3	4.5
1.4	256QAM	1	3	15.95	16.00	15.94		
1.4	256QAM	1	5	16.03	15.96	15.80		
1.4	256QAM	3	0	16.06	15.87	15.78		
1.4	256QAM	3	1	15.90	15.82	15.80		
1.4	256QAM	3	3	15.90	15.79	15.85		
1.4	256QAM	6	0	15.95	15.86	15.82	17.3	4.5

Band 5 (Cellular Band)
Part 22H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				826	836.5	844		
10	QPSK	1	0	21.85	21.76	21.72	23.3	0
10	QPSK	1	25	21.77	21.73	21.66		
10	QPSK	1	49	21.71	21.72	21.69		
10	QPSK	25	0	20.84	20.82	20.80	22.3	1
10	QPSK	25	12	20.93	20.89	20.81		
10	QPSK	25	25	20.83	20.76	20.73		
10	QPSK	50	0	20.86	20.82	20.76		
10	16QAM	1	0	21

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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	20.26	20.39	20.53		
20	QPSK	1	49	20.35	20.49	20.58	20.8	0
20	QPSK	1	99	20.52	20.57	20.61		
20	QPSK	50	0	19.42	19.52	19.64		
20	QPSK	50	24	19.44	19.55	19.76	19.8	1
20	QPSK	50	50	19.40	19.51	19.74		
20	QPSK	100	0	19.43	19.55	19.66		
20	16QAM	1	0	19.61	19.78	19.74		
20	16QAM	1	49	19.71	19.73	19.67	19.8	1
20	16QAM	1	99	19.72	19.62	19.71		
20	16QAM	50	0	18.35	18.54	18.60		
20	16QAM	50	24	18.48	18.59	18.74	18.8	2
20	16QAM	50	50	18.47	18.69	18.79		
20	16QAM	100	0	18.45	18.56	18.65		
20	64QAM	1	0	18.43	18.67	18.71		
20	64QAM	1	49	18.54	18.78	18.71	18.8	2
20	64QAM	1	99	18.63	18.71	18.74		
20	64QAM	50	0	17.37	17.56	17.64		
20	64QAM	50	24	17.51	17.60	17.80	17.8	3
20	64QAM	50	50	17.53	17.69	17.80		
20	64QAM	100	0	17.47	17.54	17.67		
20	256QAM	1	0	15.68	15.97	15.88		
20	256QAM	1	49	15.75	15.96	15.82	16.3	4.5
20	256QAM	1	99	15.84	15.84	15.79		
20	256QAM	50	0	15.62	15.76	15.68		
20	256QAM	50	24	15.78	15.81	15.78	16.3	4.5
20	256QAM	50	50	15.76	15.77	15.71		
20	256QAM	100	0	15.72	15.81	15.68		
Channel				20525	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	20.30	20.44	20.57		
15	QPSK	1	37	20.27	20.52	20.60	20.8	0
15	QPSK	1	74	20.37	20.59	20.58		
15	QPSK	36	0	19.32	19.52	19.65		
15	QPSK	36	20	19.45	19.59	19.75	19.8	1
15	QPSK	36	39	19.44	19.66	19.78		
15	QPSK	75	0	19.41	19.54	19.74		
15	16QAM	1	0	19.57	19.74	19.71		
15	16QAM	1	37	19.64	19.72	19.73	19.8	1
15	16QAM	1	74	19.66	19.66	19.71		
15	16QAM	36	0	18.34	18.54	18.64		
15	16QAM	36	20	18.43	18.55	18.75	18.8	2
15	16QAM	36	39	18.42	18.67	18.76		
15	16QAM	75	0	18.44	18.54	18.76		
15	64QAM	1	0	18.47	18.65	18.73		
15	64QAM	1	37	18.58	18.74	18.75	18.8	2
15	64QAM	1	74	18.60	18.77	18.74		
15	64QAM	36	0	17.37	17.57	17.69		
15	64QAM	36	20	17.47	17.62	17.77	17.8	3
15	64QAM	36	39	17.46	17.70	17.79		
15	64QAM	75	0	17.41	17.58	17.75		
15	256QAM	1	0	15.69	15.96	15.90		
15	256QAM	1	37	15.79	15.91	15.75	16.3	4.5
15	256QAM	1	74	15.89	15.90	15.82		
15	256QAM	36	0	15.65	15.76	15.66		
15	256QAM	36	20	15.78	15.84	15.85	16.3	4.5
15	256QAM	36	39	15.70	15.82	15.70		
15	256QAM	75	0	15.67	15.73	15.73		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	20.10	20.35	20.57		
10	QPSK	1	25	20.15	20.41	20.51	20.8	0
10	QPSK	1	49	20.20	20.48	20.60		
10	QPSK	25	0	19.33	19.50	19.63		
10	QPSK	25	12	19.36	19.54	19.68	19.8	1
10	QPSK	25	25	19.37	19.60	19.73		
10	QPSK	50	0	19.35	19.53	19.68		
10	16QAM	1	0	19.53	19.76	19.71		
10	16QAM	1	25	19.52	19.78	19.67	19.8	1
10	16QAM	1	49	19.63	19.75	19.68		
10	16QAM	25	0	18.36	18.51	18.62		
10	16QAM	25	12	18.42	18.58	18.71	18.8	2
10	16QAM	25	25	18.36	18.61	18.75		
10	16QAM	50	0	18.37	18.54	18.66		
10	64QAM	1	0	18.39	18.62	18.72		
10	64QAM	1	25	18.49	18.71	18.74	18.8	2
10	64QAM	1	49	18.52	18.70	18.76		
10	64QAM	25	0	17.39	17.54	17.66		
10	64QAM	25	12	17.44	17.58	17.71	17.8	3
10	64QAM	25	25	17.41	17.67	17.77		
10	64QAM	50	0	17.39	17.58	17.72		
10	256QAM	1	0	15.78	16.04	15.97		
10	256QAM	1	25	15.81	16.04	15.86	16.3	4.5
10	256QAM	1	49	15.80	15.91	15.81		
10	256QAM	25	0	15.52	15.82	15.68		
10	256QAM	25	12	15.78	15.73	15.82	16.3	4.5
10	256QAM	25	25	15.86	15.87	15.68		
10	256QAM	50	0	15.72	15.76	15.78		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	20.12	20.37	20.56		
5	QPSK	1	12	20.19	20.47	20.59	20.8	0
5	QPSK	1	24	20.22	20.48	20.57		
5	QPSK	12	0	19.29	19.53	19.71		
5	QPSK	12	7	19.34	19.52	19.70	19.8	1
5	QPSK	12	13	19.32	19.61	19.73		
5	QPSK	25	0	19.34	19.53	19.70		
5	16QAM	1	0	19.43	19.71	19.74		
5	16QAM	1	12	19.50	19.74	19.68	19.8	1
5	16QAM	1	24	19.52	19.78	19.74		
5	16QAM	12	0	18.36	18.57	18.72		
5	16QAM	12	7	18.36	18.53	18.72	18.8	2
5	16QAM	12	13	18.33	18.64	18.76		
5	16QAM	25	0	18.32	18.56	18.73		
5	64QAM	1	0	18.39	18.65	18.67		
5	64QAM	1	12	18.44	18.69	18.72	18.8	2
5	64QAM	1	24	18.46	18.75	18.73		
5	64QAM	12	0	17.39	17.56	17.78		
5	64QAM	12	7	17.41	17.61	17.71	17.8	3
5	64QAM	12	13	17.35	17.64	17.68		
5	64QAM	25	0	17.37	17.53	17.74		
5	256QAM	1	0	15.64	15.90	15.94		
5	256QAM	1	12	15.67	15.89	15.90	16.3	4.5
5	256QAM	1	24	15.90	15.88	15.80		
5	256QAM	12	0	15.59	15.81	15.65		
5	256QAM	12	7	15.83	15.91	15.78	16.3	4.5
5	256QAM	12	13	15.82	15.84	15.77		
5	256QAM	25	0	15.63	15.89	15.78		

Band 12 (700MHz Low Band)
Part 27F(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.18	22.21	22.17		
10	QPSK	1	25	22.27	22.19	22.21	23.3	0
10	QPSK	1	49	22.30	22.32	22.19		
10	QPSK	25	0	21.30	21.29	21.31		
10	QPSK	25	12	21.36	21.41	21.33	22.3	1
10	QPSK	25	25	21.38	21.43	21.34		
10	QPSK	50	0	21.34	21.39	21.32		
10	16QAM	1	0	21.50	21.63	21.61		
10	16QAM	1	25	21.57	21.62	21.56	22.3	1
10	16QAM	1	49	21.59	21.63	21.55		
10	16QAM	25	0	20.27	20.18	20.21		
10	16QAM	25	12	20.29	20.40	20.27	21.3	2
10	16QAM	25	25	20.37	20.36	20.35		
10	16QAM	50	0	20.27	20.28	20.27		
10	64QAM	1	0	20.39	20.41	20.45		
10	64QAM	1	25	20.53	20.46	20.52	21.3	2
10	64QAM	1	49	20.50	20.49	20.53		
10	64QAM	25	0	19.29	19.29	19.27		
10	64QAM	25	12	19.35	19.41	19.29	20.3	3
10	64QAM	25	25	19.41	19.40	19.40		
10	64QAM	50	0	19.32	19.31	19.28		
10	256QAM	1	0	17.75	17.62	17.78		
10	256QAM	1	25	17.78	17.73	17.65	18.8	4.5
10	256QAM	1	49	17.79	17.62	17.70		
10	256QAM	25	0	17.66	17.61	17.66		
10	256QAM	25	12	17.68	17.70	17.60	18.8	4.5
10	256QAM	25	25	17.69	17.58	17.59		
10	256QAM	50	0	17.65	17.59	17.58		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.20	22.25	22.18		
5	QPSK	1	12	22.23	22.25	22.16	23.3	0
5	QPSK	1	24	22.22	22.25	22.18		
5	QPSK	12	0	21.29	21.35	21.30		
5	QPSK	12	7	21.32	21.39	21.35	22.3	1
5	QPSK	12	13	21.31	21.32	21.29		
5	QPSK	25	0	21.33	21.41	21.25		
5	16QAM	1	0	21.51	21.60	21.52		
5	16QAM	1	12	21.53	21.61	21.62	22.3	1
5	16QAM	1	24	21.53	21.61	21.60		
5	16QAM	12	0	20.33	20.37	20.31		
5	16QAM	12	7	20.35	20.41	20.40	21.3	2
5	16QAM	12	13	20.33	20.38	20.30		
5	16QAM	25	0	20.32	20.37	20.31		
5	64QAM	1	0	20.43	20.51	20.46		
5	64QAM	1	12	20.46	20.52	20.48	21.3	2
5	64QAM	1	24	20.52	20.55	20.49		
5	64QAM	12	0	19.34	19.40	19.38		
5	64QAM	12	7	19.39	19.46	19.43	20.3	3
5	64QAM	12	13	19.38	19.39	19.38		
5	64QAM	25	0	19.32	19.41	19.29		
5	256QAM	1	0	17.74	17.62	17.73		
5	256QAM	1	12	17.81	17.69	17.67	18.8	4.5
5	256QAM	1	24	17.72	17.57	17.71		
5	256QAM	12	0	17.76	17.51	17.69		
5	256QAM	12	7	17.62	17.76	17.66	18.8	4.5
5	256QAM	12	13	17.68	17.65	17.69		
5	256QAM	25	0	17.75	17.69	17.50		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.20	22.24	22.23		
3	QPSK	1	8	22.25	22.24	22.24	23.3	0
3	QPSK	1	14	22.17	22.23	22.21		
3	QPSK	8	0	21.28	21.32	21.25		
3	QPSK	8	4	21.31	21.40	21.27	22.3	1
3	QPSK	8	7	21.26	21.35	21.28		
3	QPSK	15	0	21.26	21.35	21.30		
3	16QAM	1	0	21.49	21.62	21.55		
3	16QAM	1	8	21.56	21.65	21.57	22.3	1
3	16QAM	1	14	21.51	21.62	21.52		
3	16QAM	8	0	20.31	20.41	20.31		
3	16QAM	8	4	20.37	20.46	20.36	21.3	2
3	16QAM	8	7	20.36	20.42	20.31		
3	16QAM	15	0	20.35	20.41	20.34		
3	64QAM	1	0	20.43	20.53	20.50		
3	64QAM	1	8	20.53	20.61	20.56	21.3	2
3	64QAM	1	14	20.46	20.53	20.43		
3	64QAM	8	0	19.32	19.37	19.31		
3	64QAM	8	4	19.42	19.42	19.34	20.3	3
3	64QAM	8	7	19.35	19.37	19.31		
3	64QAM	15	0	19.32	19.38	19.32		
3	256QAM	1	0	17.76	17.52	17.71		
3	256QAM	1	8	17.69	17.77	17.74	18.8	4.5
3	256QAM	1	14	17.88	17.72	17.74		
3	256QAM	8	0	17.58	17.69	17.72		
3	256QAM	8	4	17.60	17.80	17.67	18.8	4.5
3	256QAM	8	7	17.72	17.68	17.49		
3	256QAM	15	0	17.72	17.64	17.53		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.07	22.14	22.12		
1.4	QPSK	1	3	22.13	22.25	22.17		
1.4	QPSK	1	5	22.06	22.19	22.12	23.3	0
1.4	QPSK	3	0	22.14	22.14	22.15		
1.4	QPSK	3	1	22.19	22.23	22.17		
1.4	QPSK	3	3	22.12	22.20	22.11		
1.4	QPSK	6	0	21.18	21.28	21.19	22.3	1
1.4	16QAM	1	0	21.36	21.47	21.48		
1.4	16QAM	1	3	21.44	21.57	21.47		
1.4	16QAM	1	5	21.35	21.50	21.47	22.3	1
1.4	16QAM	3	0	21.24	21.28	21.27		
1.4	16QAM	3	1	21.26	21.37	21.28		
1.4	16QAM	3	3	21.19	21.29	21.22		
1.4	16QAM	6	0	20.27	20.33	20.25	21.3	2
1.4	64QAM	1	0	20.36	20.41	20.43		
1.4	64QAM	1	3	20.46	20.53	20.47		
1.4	64QAM	1	5	20.37	20.45	20.40	21.3	2
1.4	64QAM	3	0	20.33	20.36	20.38		
1.4	64QAM	3	1	20.38	20.48	20.40		
1.4	64QAM	3	3	20.32	20.38	20.39		
1.4	64QAM	6	0	19.31	19.36	19.33	20.3	3
1.4	256QAM	1	0	17.68	17.54	17.79		
1.4	256QAM	1	3	17.88	17.80	17.68		
1.4	256QAM	1	5	17.70	17.71	17.80	18.8	4.5
1.4	256QAM	3	0	17.70	17.57	17.65		
1.4	256QAM	3	1	17.64	17.63	17.65		
1.4	256QAM	3	3	17.72	17.56	17.61		
1.4	256QAM	6	0	17.68	17.58	17.66	18.8	4.5

Band 13(700MHz Band)
Part 27F

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					23230			
Frequency (MHz)					782			
10	QPSK	1	0		21.72			
10	QPSK	1	25		21.86		23.3	0
10	QPSK	1	49		21.81			
10	QPSK	25	0		20.90			
10	QPSK	25	12		20.93		22.3	1
10	QPSK	25	25		20.96			
10	QPSK	50	0		20.95			
10	16QAM	1	0		21.09			
10	16QAM	1	25		21.14		22.3	1
10	16QAM	1	49		21.18			
10	16QAM	25	0		19.98			
10	16QAM	25	12		19.97		21.3	2
10	16QAM	25	25		19.99			
10	16QAM	50	0		19.92			
10	64QAM	1	0		20.01			
10	64QAM	1	25		20.08		21.3	2
10	64QAM	1	49		20.05			
10	64QAM	25	0		18.94			
10	64QAM	25	12		18.96		20.3	3
10	64QAM	25	25		19.04			
10	64QAM	50	0		19.03			
10	256QAM	1	0		17.61			
10	256QAM	1	25		17.72		18.8	4.5
10	256QAM	1	49		17.60			
10	256QAM	25	0		17.60			
10	256QAM	25	12		17.47		18.8	4.5
10	256QAM	25	25		17.66			
10	256QAM	50	0		17.61			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	21.64	21.74	21.81		
5	QPSK	1	12	21.85	21.84	21.82	23.3	0
5	QPSK	1	24	21.80	21.80	21.80		
5	QPSK	12	0	20.93	20.94	20.92		
5	QPSK	12	7	20.94	20.92	20.99	22.3	1
5	QPSK	12	13	20.96	21.00	20.97		
5	QPSK	25	0	20.99	20.89	20.97		
5	16QAM	1	0	20.74	21.09	21.10		
5	16QAM	1	12	21.16	21.08	21.11	22.3	1
5	16QAM	1	24	21.17	21.17	21.14		
5	16QAM	12	0	19.95	19.97	19.94		
5	16QAM	12	7	20.06	19.95	20.01	21.3	2
5	16QAM	12	13	20.03	19.99	20.01		
5	16QAM	25	0	19.95	19.95	20.00		
5	64QAM	1	0	20.11	20.10	20.02		
5	64QAM	1	12	20.12	20.07	20.03	21.3	2
5	64QAM	1	24	20.12	20.10	20.09		
5	64QAM	12	0	18.81	19.00	19.03		
5	64QAM	12	7	19.00	18.97	19.07	20.3	3
5	64QAM	12	13	19.02	19.01	19.02		
5	64QAM	25	0	18.94	18.95	19.03		
5	256QAM	1	0	17.65	17.71	17.64		
5	256QAM	1	12	17.76	17.75	17.72	18.8	4.5
5	256QAM	1	24	17.54	17.61	17.59		
5	256QAM	12	0	17.67	17.52	17.62		
5	256QAM	12	7	17.48	17.46	17.40	18.8	4.5
5	256QAM	12	13	17.75	17.61	17.76		
5	256QAM	25	0	17.71	17.67	17.66		

Band 17 (700MHz Band)
Part 27H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	22.19	22.20	22.21		
10	QPSK	1	25	22.21	22.22	22.19	23.3	0
10	QPSK	1	49	22.26	22.24	22.23		
10	QPSK	25	0	21.32	21.32	21.31		
10	QPSK	25	12	21.42	21.39	21.32	22.3	1
10	QPSK	25	25	21.40	21.38	21.30		
10	QPSK	50	0	21.37	21.36	21.29		
10	16QAM	1	0	21.48	21.56	21.63		
10	16QAM	1	25	21.56	21.62	21.61	22.3	1
10	16QAM	1	49	21.65	21.63	21.64		
10	16QAM	25	0	20.32	20.35	20.35		
10	16QAM	25	12	20.41	20.43	20.31	21.3	2
10	16QAM	25	25	20.40	20.42	20.35		
10	16QAM	50	0	20.39	20.35	20.31		
10	64QAM	1	0	20.35	20.38	20.47		
10	64QAM	1	25	20.47	20.49	20.53	21.3	2
10	64QAM	1	49	20.52	20.48	20.54		
10	64QAM	25	0	19.33	19.39	19.37		
10	64QAM	25	12	19.43	19.47	19.35	20.3	3
10	64QAM	25	25	19.40	19.40	19.37		
10	64QAM	50	0	19.42	19.39	19.32		
10	256QAM	1	0	17.97	17.84	18.00		
10	256QAM	1	25	18.00	17.95	17.87	18.8	4.5
10	256QAM	1	49	18.01	17.84	17.92		
10	256QAM	25	0	17.88	17.83	17.88		
10	256QAM	25	12	17.90	17.92	17.82	18.8	4.5
10	256QAM	25	25	17.91	17.80	17.81		
10	256QAM	50	0	17.87	17.81	17.80		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.12	22.20	22.18		
5	QPSK	1	12	22.23	22.20	22.23	23.3	0
5	QPSK	1	24	22.22	22.24	22.24		
5	QPSK	12	0	21.29	21.30	21.24		
5	QPSK	12	7	21.34	21.34	21.26	22.3	1
5	QPSK	12	13	21.36	21.31	21.31		
5	QPSK	25	0	21.34	21.35	21.24		
5	16QAM	1	0	21.46	21.50	21.50		
5	16QAM	1	12	21.53	21.58	21.55	22.3	1
5	16QAM	1	24	21.62	21.63	21.58		
5	16QAM	12	0	20.28	20.25	20.27		
5	16QAM	12	7	20.38	20.38	20.30	21.3	2
5	16QAM	12	13	20.37	20.33	20.32		
5	16QAM	25	0	20.33	20.34	20.29		
5	64QAM	1	0	20.43	20.46	20.41		
5	64QAM	1	12	20.42	20.50	20.47	21.3	2
5	64QAM	1	24	20.50	20.56	20.46		
5	64QAM	12	0	19.33	19.33	19.34		
5	64QAM	12	7	19.42	19.42	19.35	20.3	3
5	64QAM	12	13	19.42	19.40	19.38		
5	64QAM	25	0	19.36	19.36	19.28		
5	256QAM	1	0	17.52	17.18	17.41		
5	256QAM	1	12	17.39	17.32	17.39	18.8	4.5
5	256QAM	1	24	17.32	17.35	17.29		
5	256QAM	12	0	17.42	17.14	17.46		
5	256QAM	12	7	17.43	17.51	17.23	18.8	4.5
5	256QAM	12	13	17.34	17.27	17.24		
5	256QAM	25	0	17.26	17.31	17.40		

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	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	20.74	20.76	20.70		
20	QPSK	1	49	20.62	20.65	20.64	21.8	0
20	QPSK	1	99	20.59	20.59	20.61		
20	QPSK	50	0	19.75	19.76	19.70		
20	QPSK	50	24	19.77	19.80	19.73	20.8	1
20	QPSK	50	50	19.76	19.74	19.69		
20	QPSK	100	0	19.76	19.78	19.70		
20	16QAM	1	0	20.11	20.12	20.04		
20	16QAM	1	49	19.96	20.03	19.96	20.8	1
20	16QAM	1	99	19.96	19.94	19.87		
20	16QAM	50	0	18.83	18.81	18.76		
20	16QAM	50	24	18.81	18.82	18.77	19.8	2
20	16QAM	50	50	18.80	18.88	18.81		
20	16QAM	100	0	18.81	18.76	18.77		
20	64QAM	1	0	18.97	18.93	18.92		
20	64QAM	1	49	18.80	18.90	18.88	19.8	2
20	64QAM	1	99	18.79	18.93	18.85		
20	64QAM	50	0	17.85	17.84	17.78		
20	64QAM	50	24	17.83	17.82	17.78	18.8	3
20	64QAM	50	50	17.82	17.87	17.84		
20	64QAM	100	0	17.81	17.78	17.76		
20	256QAM	1	0	16.03	16.02	16.04		
20	256QAM	1	49	16.07	16.07	16.01	17.3	4.5
20	256QAM	1	99	16.01	16.05	15.92		
20	256QAM	50	0	15.96	15.91	15.92		
20	256QAM	50	24	15.92	16.07	15.83	17.3	4.5
20	256QAM	50	50	15.92	15.95	15.85		
20	256QAM	100	0	15.92	15.86	15.91		
Channel				26115	26340	26565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	20.66	20.64	20.56		
15	QPSK	1	37	20.60	20.62	20.52	21.8	0
15	QPSK	1	74	20.55	20.56	20.50		
15	QPSK	36	0	19.79	19.73	19.62		
15	QPSK	36	20	19.74	19.74	19.68	20.8	1
15	QPSK	36	39	19.67	19.71	19.65		
15	QPSK	75	0	19.74	19.65	19.69		
15	16QAM	1	0	19.98	19.96	19.94		
15	16QAM	1	37	19.91	19.93	19.85	20.8	1
15	16QAM	1	74	19.84	19.79	19.78		
15	16QAM	36	0	18.79	18.72	18.64		
15	16QAM	36	20	18.75	18.76	18.69	19.8	2
15	16QAM	36	39	18.64	18.70	18.63		
15	16QAM	75	0	18.74	18.69	18.69		
15	64QAM	1	0	18.88	18.82	18.73		
15	64QAM	1	37	18.79	18.83	18.75	19.8	2
15	64QAM	1	74	18.76	18.81	18.71		
15	64QAM	36	0	17.82	17.75	17.66		
15	64QAM	36	20	17.79	17.81	17.71	18.8	3
15	64QAM	36	39	17.71	17.72	17.68		
15	64QAM	75	0	17.76	17.68	17.71		
15	256QAM	1	0	16.00	15.95	16.14		
15	256QAM	1	37	16.06	16.04	16.09	17.3	4.5
15	256QAM	1	74	16.01	16.01	15.99		
15	256QAM	36	0	15.92	15.87	15.99		
15	256QAM	36	20	15.83	16.11	15.85	17.3	4.5
15	256QAM	36	39	15.87	15.95	15.86		
15	256QAM	75	0	16.02	15.92	16.00		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	20.62	20.53	20.48		
10	QPSK	1	25	20.57	20.53	20.52	21.8	0
10	QPSK	1	49	20.54	20.53	20.51		
10	QPSK	25	0	19.73	19.63	19.55		
10	QPSK	25	12	19.73	19.65	19.65	20.8	1
10	QPSK	25	25	19.70	19.71	19.67		
10	QPSK	50	0	19.74	19.65	19.65		
10	16QAM	1	0	20.00	19.95	19.89		
10	16QAM	1	25	19.94	19.96	19.86	20.8	1
10	16QAM	1	49	19.89	19.98	19.91		
10	16QAM	25	0	18.71	18.64	18.57		
10	16QAM	25	12	18.74	18.66	18.63	19.8	2
10	16QAM	25	25	18.69	18.72	18.58		
10	16QAM	50	0	18.74	18.65	18.63		
10	64QAM	1	0	18.92	18.78	18.74		
10	64QAM	1	25	18.90	18.88	18.85	19.8	2
10	64QAM	1	49	18.80	18.79	18.81		
10	64QAM	25	0	17.73	17.69	17.59		
10	64QAM	25	12	17.78	17.70	17.68	18.8	3
10	64QAM	25	25	17.73	17.76	17.65		
10	64QAM	50	0	17.77	17.68	17.66		
10	256QAM	1	0	15.94	15.98	16.01		
10	256QAM	1	25	16.17	16.16	15.98	17.3	4.5
10	256QAM	1	49	16.00	15.96	15.87		
10	256QAM	25	0	15.88	15.82	15.97		
10	256QAM	25	12	15.94	15.97	15.79	17.3	4.5
10	256QAM	25	25	15.84	15.96	15.90		
10	256QAM	50	0	15.90	15.90	15.93		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	20.61	20.52	20.46		
5	QPSK	1	12	20.64	20.67	20.55	21.8	0
5	QPSK	1	24	20.61	20.62	20.58		
5	QPSK	12	0	19.72	19.60	19.51		
5	QPSK	12	7	19.79	19.74	19.65	20.8	1
5	QPSK	12	13	19.78	19.75	19.67		
5	QPSK	25	0	19.73	19.71	19.64		
5	16QAM	1	0	19.97	19.87	19.81		
5	16QAM	1	12	19.93	19.92	19.89	20.8	1
5	16QAM	1	24	19.93	19.94	19.92		
5	16QAM	12	0	18.76	18.63	18.54		
5	16QAM	12	7	18.82	18.76	18.66	19.8	2
5	16QAM	12	13	18.82	18.75	18.65		
5	16QAM	25	0	18.77	18.73	18.59		
5	64QAM	1	0	18.87	18.79	18.75		
5	64QAM	1	12	18.85	18.81	18.75	19.8	2
5	64QAM	1	24	18.88	18.89	18.82		
5	64QAM	12	0	17.76	17.69	17.58		
5	64QAM	12	7	17.84	17.79	17.72	18.8	3
5	64QAM	12	13	17.82	17.81	17.71		
5	64QAM	25	0	17.72	17.74	17.63		
5	256QAM	1	0	16.10	16.03	15.95		
5	256QAM	1	12	16.01	16.15	16.02	17.3	4.5
5	256QAM	1	24	16.04	16.05	15.89		
5	256QAM	12	0	15.97	15.98	15.84		
5	256QAM	12	7	15.90	16.08	15.86	17.3	4.5
5	256QAM	12	13	15.92	15.88	15.76		
5	256QAM	25	0	15.86	15.88	15.89		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	20.58	20.48	20.41		
3	QPSK	1	8	20.68	20.66	20.61	21.8	0
3	QPSK	1	14	20.66	20.62	20.61		
3	QPSK	8	0	19.68	19.63	19.49		
3	QPSK	8	4	19.61	19.70	19.59	20.8	1
3	QPSK	8	7	19.75	19.71	19.66		
3	QPSK	15	0	19.73	19.71	19.57		
3	16QAM	1	0	19.86	19.84	19.72		
3	16QAM	1	8	20.05	20.01	19.95	20.8	1
3	16QAM	1	14	19.99	19.99	19.90		
3	16QAM	8	0	18.75	18.68	18.60		
3	16QAM	8	4	18.81	18.82	18.64	19.8	2
3	16QAM	8	7	18.83	18.80	18.70		
3	16QAM	15	0	18.77	18.74	18.57		
3	64QAM	1	0	18.83	18.70	18.69		
3	64QAM	1	8	18.94	18.91	18.89	19.8	2
3	64QAM	1	14	18.91	18.93	18.88		
3	64QAM	8	0	17.76	17.64	17.56		
3	64QAM	8	4	17.85	17.76	17.61	18.8	3
3	64QAM	8	7	17.86	17.78	17.69		
3	64QAM	15	0	17.78	17.74	17.62		
3	256QAM	1	0	16.00	16.10	16.04		
3	256QAM	1	8	16.03	16.14	15.93	17.3	4.5
3	256QAM	1	14	16.02	16.13	15.84		
3	256QAM	8	0	15.99	15.94	16.00		
3	256QAM	8	4	15.99	15.99	15.79	17.3	4.5
3	256QAM	8	7	16.02	15.89	15.91		
3	256QAM	15	0	16.02	15.82	16.00		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	20.52	20.46	20.36		
1.4	QPSK	1	3	20.61	20.55	20.54		
1.4	QPSK	1	5	20.57	20.55	20.47	21.8	0
1.4	QPSK	3	0	20.58	20.51	20.36		
1.4	QPSK	3	1	20.65	20.57	20.46		
1.4	QPSK	3	3	20.62	20.55	20.47		
1.4	QPSK	6	0	19.68	19.61	19.51	20.8	1
1.4	16QAM	1	0	19.87	19.78	19.70		
1.4	16QAM	1	3	19.94	19.95	19.91		
1.4	16QAM	1	5	19.93	19.88	19.84	20.8	1
1.4	16QAM	3	0	19.64	19.59	19.48		
1.4	16QAM	3	1	19.73	19.67	19.53		
1.4	16QAM	3	3	19.70	19.64	19.61		
1.4	16QAM	6	0	18.79	18.75	18.55	19.8	2
1.4	64QAM	1	0	18.82	18.81	18.80		
1.4	64QAM	1	3	18.83	18.86	18.96		
1.4	64QAM	1	5	18.85	18.81	18.87	19.8	2
1.4	64QAM	3	0	18.88	18.80	18.81		
1.4	64QAM	3	1	18.87	18.80	18.81		
1.4	64QAM	3	3	18.80	18.80	18.83		
1.4	64QAM	6	0	17.92	17.83	17.81	18.8	3
1.4	256QAM	1	0	15.93	16.00	16.02		
1.4	256QAM	1	3	16.09	16.13	16.07		
1.4	256QAM	1	5	15.92	15.97	15.83	17.3	4.5
1.4	256QAM	3	0	15.92	15.94	15.84		
1.4	256QAM	3	1	16.01	16.05	15.79		
1.4	256QAM	3	3	15.86	16.03	15.88		
1.4	256QAM	6	0	15.87	15.91	15.92	17.3	4.5

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)				821.5	831.5	841.5		
15	QPSK	1	0	21.87	21.82	21.88		
15	QPSK	1	37	21.80	21.80	21.83	23.3	0
15	QPSK	1	74	21.79	21.77	21.76		
15	QPSK	36	0	20.86	20.79	20.90		
15	QPSK	36	20	20.91	20.88	20.92	22.3	1
15	QPSK	36	39	20.84	20.85	20.87		
15	QPSK	75	0	20.86	20.80	20.88		
15	16QAM	1	0	21.03	21.03	21.07		
15	16QAM	1	37	21.04	21.03	21.11	22.3	1
15	16QAM	1	74	20.98	21.03	20.97		
15	16QAM	36	0	19.87	19.84	19.89		
15	16QAM	36	20	19.89	19.80	19.91	21.3	2
15	16QAM	36	39	19.82	19.83	19.89		
15	16QAM	75	0	19.91	19.82	19.85		
15	64QAM	1	0	19.91	19.94	19.95		
15	64QAM	1	37	19.97	20.01	19.94	21.3	2
15	64QAM	1	74	20.00	20.00	19.87		
15	64QAM	36	0	18.87	18.89	18.95		
15	64QAM	36	20	18.92	18.80	18.98	20.3	3
15	64QAM	36	39	18.88	18.87	18.95		
15	64QAM	75	0	18.91	18.81	18.87		
15	256QAM	1	0	17.67	17.72	17.66		
15	256QAM	1	37	17.60	17.69	17.60	18.8	4.5
15	256QAM	1	74	17.69	17.60	17.49		
15	256QAM	36	0	17.57	17.53	17.54		
15	256QAM	36	20	17.58	17.52	17.45	18.8	4.5
15	256QAM	36	39	17.53	17.53	17.41		
15	256QAM	75	0	17.56	17.40	17.41		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	21.72	21.81	21.80		
10	QPSK	1	25	21.79	21.74	21.79	23.3	0
10	QPSK	1	49	21.77	21.77	21.75		
10	QPSK	25	0	20.87	20.87	20.92		
10	QPSK	25	12	20.97	20.85	20.98	22.3	1
10	QPSK	25	25	20.91	20.87	20.91		
10	QPSK	50	0	20.94	20.86	20.84		
10	16QAM	1	0	21.21	21.21	21.26		
10	16QAM	1	25	21.17	21.15	21.20	22.3	1
10	16QAM	1	49	21.15	21.13	21.15		
10	16QAM	25	0	19.91	19.88	19.89		
10	16QAM	25	12	19.98	19.87	19.99	21.3	2
10	16QAM	25	25	19.88	19.89	19.88		
10	16QAM	50	0	19.94	19.82	19.86		
10	64QAM	1	0	19.96	20.07	20.06		
10	64QAM	1	25	19.99	20.08	20.04	21.3	2
10	64QAM	1	49	19.98	20.07	20.04		
10	64QAM	25	0	18.92	18.92	18.97		
10	64QAM	25	12	19.11	18.89	19.02	20.3	3
10	64QAM	25	25	18.93	18.93	18.91		
10	64QAM	50	0	19.00	18.89	18.91		
10	256QAM	1	0	17.62	17.77	17.58		
10	256QAM	1	25	17.66	17.59	17.59	18.8	4.5
10	256QAM	1	49	17.62	17.67	17.39		
10	256QAM	25	0	17.57	17.62	17.52		
10	256QAM	25	12	17.68	17.45	17.52	18.8	4.5
10	256QAM	25	25	17.51	17.53	17.51		
10	256QAM	50	0	17.51	17.33	17.45		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	21.80	21.78	21.80		
5	QPSK	1	12	21.71	21.79	21.79	23.3	0
5	QPSK	1	24	21.76	21.80	21.81		
5	QPSK	12	0	20.90	20.88	20.93		
5	QPSK	12	7	20.95	20.94	20.97	22.3	1
5	QPSK	12	13	20.91	20.90	20.92		
5	QPSK	25	0	20.95	20.84	20.90		
5	16QAM	1	0	21.12	21.13	21.13		
5	16QAM	1	12	21.18	21.16	21.17	22.3	1
5	16QAM	1	24	21.20	21.17	21.15		
5	16QAM	12	0	19.95	19.95	19.96		
5	16QAM	12	7	20.05	20.01	20.02	21.3	2
5	16QAM	12	13	19.93	19.91	19.92		
5	16QAM	25	0	19.99	19.89	19.90		
5	64QAM	1	0	20.14	20.02	20.12		
5	64QAM	1	12	20.15	20.12	20.15	21.3	2
5	64QAM	1	24	20.10	20.11	20.10		
5	64QAM	12	0	19.00	19.00	19.05		
5	64QAM	12	7	19.02	19.05	19.02	20.3	3
5	64QAM	12	13	18.98	18.97	18.93		
5	64QAM	25	0	18.97	18.92	18.92		
5	256QAM	1	0	17.64	17.63	17.74		
5	256QAM	1	12	17.53	17.75	17.63	18.8	4.5
5	256QAM	1	24	17.69	17.50	17.52		
5	256QAM	12	0	17.49	17.56	17.54		
5	256QAM	12	7	17.60	17.55	17.49	18.8	4.5
5	256QAM	12	13	17.47	17.59	17.38		
5	256QAM	25	0	17.65	17.44	17.46		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	21.77	21.80	21.84		
3	QPSK	1	8	21.74	21.83	21.83	23.3	0
3	QPSK	1	14	21.81	21.81	21.79		
3	QPSK	8	0	20.91	20.90	20.94		
3	QPSK	8	4	20.97	20.95	20.95	22.3	1
3	QPSK	8	7	20.92	20.89	20.86		
3	QPSK	15	0	20.93	21.00	20.91		
3	16QAM	1	0	21.11	21.09	21.21		
3	16QAM	1	8	21.23	21.21	21.24	22.3	1
3	16QAM	1	14	21.15	21.12	21.17		
3	16QAM	8	0	19.99	20.00	20.04		
3	16QAM	8	4	20.02	20.05	20.01	21.3	2
3	16QAM	8	7	20.01	19.94	19.93		
3	16QAM	15	0	19.96	19.88	19.96		
3	64QAM	1	0	20.06	20.05	20.14		
3	64QAM	1	8	20.17	20.25	20.15	21.3	2
3	64QAM	1	14	20.11	20.18	20.07		
3	64QAM	8	0	18.96	18.94	19.04		
3	64QAM	8	4	19.06	19.03	19.02	20.3	3
3	64QAM	8	7	18.97	18.95	18.94		
3	64QAM	15	0	18.96	18.88	18.96		
3	256QAM	1	0	17.73	17.66	17.57		
3	256QAM	1	8	17.61	17.60	17.66	18.8	4.5
3	256QAM	1	14	17.78	17.61	17.39		
3	256QAM	8	0	17.67	17.56	17.62		
3	256QAM	8	4	17.61	17.50	17.52	18.8	4.5
3	256QAM	8	7	17.60	17.63	17.33		
3	256QAM	15	0	17.61	17.37	17.37		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	21.73	21.68	21.74		
1.4	QPSK	1	3	21.78	21.80	21.76		
1.4	QPSK	1	5	21.70	21.72	21.68	23.3	0
1.4	QPSK	3	0	21.76	21.74	21.79		
1.4	QPSK	3	1	21.82	21.77	21.84		
1.4	QPSK	3	3	21.74	21.73	21.74		
1.4	QPSK	6	0	20.85	20.79	20.80	22.3	1
1.4	16QAM	1	0	21.08	21.00	21.06		
1.4	16QAM	1	3	21.12	21.11	21.12		
1.4

Band 30

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					27710			
Frequency (MHz)					2310			
10	QPSK	1	0		20.46			
10	QPSK	1	25		20.00		21.5	0
10	QPSK	1	49		20.34			
10	QPSK	25	0		19.44			
10	QPSK	25	12		19.47		20.5	1
10	QPSK	25	25		19.45			
10	QPSK	50	0		19.46			
10	16QAM	1	0		19.83			
10	16QAM	1	25		19.79		20.5	1
10	16QAM	1	49		19.73			
10	16QAM	25	0		18.40			
10	16QAM	25	12		18.46		19.5	2
10	16QAM	25	25		18.46			
10	16QAM	50	0		18.44			
10	64QAM	1	0		18.65			
10	64QAM	1	25		18.69		19.5	2
10	64QAM	1	49		18.61			
10	64QAM	25	0		17.46			
10	64QAM	25	12		17.50		18.5	3
10	64QAM	25	25		17.51			
10	64QAM	50	0		17.49			
10	256QAM	1	0		15.71			
10	256QAM	1	25		15.86		17	4.5
10	256QAM	1	49		15.77			
10	256QAM	25	0		15.61			
10	256QAM	25	12		15.76		17	4.5
10	256QAM	25	25		15.69			
10	256QAM	50	0		15.62			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	20.30	20.32	20.39		
5	QPSK	1	12	20.42	20.45	20.44	21.5	0
5	QPSK	1	24	20.41	20.38	20.34		
5	QPSK	12	0	19.40	19.45	19.46		
5	QPSK	12	7	19.47	19.49	19.49	20.5	1
5	QPSK	12	13	19.48	19.42	19.51		
5	QPSK	25	0	19.47	19.41	19.47		
5	16QAM	1	0	19.61	19.69	19.72		
5	16QAM	1	12	19.72	19.78	19.75	20.5	1
5	16QAM	1	24	19.82	19.74	19.72		
5	16QAM	12	0	18.40	18.47	18.47		
5	16QAM	12	7	18.57	18.49	18.51	19.5	2
5	16QAM	12	13	18.53	18.48	18.50		
5	16QAM	25	0	18.47	18.43	18.48		
5	64QAM	1	0	18.58	18.59	18.64		
5	64QAM	1	12	18.67	18.68	18.67	19.5	2
5	64QAM	1	24	18.73	18.66	18.65		
5	64QAM	12	0	17.47	17.50	17.54		
5	64QAM	12	7	17.55	17.56	17.56	18.5	3
5	64QAM	12	13	17.59	17.53	17.55		
5	64QAM	25	0	17.52	17.47	17.51		
5	256QAM	1	0	15.80	15.73	15.63		
5	256QAM	1	12	15.84	15.77	15.96	17	4.5
5	256QAM	1	24	15.87	15.72	15.81		
5	256QAM	12	0	15.57	15.62	15.68		
5	256QAM	12	7	15.71	15.72	15.68	17	4.5
5	256QAM	12	13	15.67	15.70	15.61		
5	256QAM	25	0	15.53	15.68	15.71		

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)				1720	1745	1770		
20	QPSK	1	0	20.57	20.73	20.59		
20	QPSK	1	49	20.50	20.56	20.50	21.8	0
20	QPSK	1	99	20.39	20.56	20.43		
20	QPSK	50	0	19.64	19.71	19.61		
20	QPSK	50	24	19.63	19.69	19.60	20.8	1
20	QPSK	50	50	19.60	19.65	19.59		
20	QPSK	100	0	19.63	19.67	19.55		
20	16QAM	1	0	19.95	20.05	19.98		
20	16QAM	1	49	19.84	19.93	19.94	20.8	1
20	16QAM	1	99	19.74	19.91	19.80		
20	16QAM	50	0	18.63	18.74	18.62		
20	16QAM	50	24	18.67	18.70	18.60	19.8	2
20	16QAM	50	50	18.61	18.70	18.61		
20	16QAM	100	0	18.65	18.62	18.56		
20	64QAM	1	0	18.80	18.97	18.73		
20	64QAM	1	49	18.73	18.86	18.71	19.8	2
20	64QAM	1	99	18.68	18.83	18.63		
20	64QAM	50	0	17.64	17.74	17.64		
20	64QAM	50	24	17.68	17.70	17.61	18.8	3
20	64QAM	50	50	17.64	17.72	17.64		
20	64QAM	100	0	17.65	17.70	17.61		
20	256QAM	1	0	16.04	15.99	16.02		
20	256QAM	1	49	15.99	16.05	16.04	17.3	4.5
20	256QAM	1	99	15.98	16.02	16.05		
20	256QAM	50	0	15.86	15.82	15.83		
20	256QAM	50	24	15.92	15.84	15.89	17.3	4.5
20	256QAM	50	50	15.88	15.87	15.96		
20	256QAM	100	0	15.89	15.81	15.95		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	20.51	20.65	20.57		
15	QPSK	1	37	20.47	20.64	20.49	21.8	0
15	QPSK	1	74	20.43	20.57	20.46		
15	QPSK	36	0	19.57	19.69	19.55		
15	QPSK	36	20	19.64	19.76	19.65	20.8	1
15	QPSK	36	39	19.59	19.70	19.58		
15	QPSK	75	0	19.61	19.63	19.61		
15	16QAM	1	0	19.84	19.98	19.90		
15	16QAM	1	37	19.90	19.97	19.84	20.8	1
15	16QAM	1	74	19.77	19.86	19.73		
15	16QAM	36	0	18.59	18.67	18.59		
15	16QAM	36	20	18.64	18.74	18.65	19.8	2
15	16QAM	36	39	18.60	18.69	18.58		
15	16QAM	75	0	18.63	18.68	18.64		
15	64QAM	1	0	18.70	18.78	18.80		
15	64QAM	1	37	18.70	18.89	18.79	19.8	2
15	64QAM	1	74	18.65	18.78	18.63		
15	64QAM	36	0	17.62	17.73	17.63		
15	64QAM	36	20	17.71	17.80	17.70	18.8	3
15	64QAM	36	39	17.65	17.73	17.63		
15	64QAM	75	0	17.65	17.70	17.63		
15	256QAM	1	0	15.96	16.07	15.94		
15	256QAM	1	37	16.03	16.11	16.05	17.3	4.5
15	256QAM	1	74	15.98	15.94	16.11		
15	256QAM	36	0	15.93	15.87	15.83		
15	256QAM	36	20	15.86	15.75	15.88	17.3	4.5
15	256QAM	36	39	15.78	15.79	15.97		
15	256QAM	75	0	15.88	15.83	16.00		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	20.49	20.59	20.48		
10	QPSK	1	25	20.51	20.55	20.42	21.8	0
10	QPSK	1	49	20.47	20.52	20.35		
10	QPSK	25	0	19.53	19.66	19.52		
10	QPSK	25	12	19.64	19.64	19.49	20.8	1
10	QPSK	25	25	19.57	19.68	19.55		
10	QPSK	50	0	19.61	19.66	19.53		
10	16QAM	1	0	19.92	19.99	19.83		
10	16QAM	1	25	19.84	19.95	19.81	20.8	1
10	16QAM	1	49	19.81	19.87	19.79		
10	16QAM	25	0	18.58	18.63	18.53		
10	16QAM	25	12	18.66	18.64	18.55	19.8	2
10	16QAM	25	25	18.56	18.69	18.53		
10	16QAM	50	0	18.63	18.62	18.49		
10	64QAM	1	0	18.78	18.82	18.69		
10	64QAM	1	25	18.85	18.89	18.76	19.8	2
10	64QAM	1	49	18.74	18.79	18.73		
10	64QAM	25	0	17.58	17.70	17.56		
10	64QAM	25	12	17.67	17.68	17.58	18.8	3
10	64QAM	25	25	17.63	17.71	17.58		
10	64QAM	50	0	17.64	17.67	17.57		
10	256QAM	1	0	16.14	16.00	16.02		
10	256QAM	1	25	16.07	16.03	15.98	17.3	4.5
10	256QAM	1	49	16.08	16.02	16.06		
10	256QAM	25	0	15.82	15.74	15.93		
10	256QAM	25	12	15.85	15.86	15.86	17.3	4.5
10	256QAM	25	25	15.79	15.93	15.93		
10	256QAM	50	0	15.80	15.88	15.96		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	20.45	20.54	20.42		
5	QPSK	1	12	20.57	20.62	20.48	21.8	0
5	QPSK	1	24	20.48	20.54	20.41		
5	QPSK	12	0	19.57	19.63	19.52		
5	QPSK	12	7	19.64	19.72	19.60	20.8	1
5	QPSK	12	13	19.58	19.68	19.54		
5	QPSK	25	0	19.61	19.69	19.53		
5	16QAM	1	0	19.78	19.88	19.77		
5	16QAM	1	12	19.85	19.92	19.78	20.8	1
5	16QAM	1	24	19.82	19.93	19.74		
5	16QAM	12	0	18.61	18.66	18.53		
5	16QAM	12	7	18.63	18.74	18.61	19.8	2
5	16QAM	12	13	18.62	18.67	18.56		
5	16QAM	25	0	18.63	18.70	18.57		
5	64QAM	1	0	18.77	18.87	18.69		
5	64QAM	1	12	18.74	18.92	18.76	19.8	2
5	64QAM	1	24	18.73	18.81	18.73		
5	64QAM	12	0	17.66	17.70	17.56		
5	64QAM	12	7	17.69	17.81	17.66	18.8	3
5	64QAM	12	13	17.68	17.75	17.60		
5	64QAM	25	0	17.63	17.74	17.55		
5	256QAM	1	0	15.99	15.98	15.99		
5	256QAM	1	12	16.08	16.03	16.09	17.3	4.5
5	256QAM	1	24	16.02	15.92	16.15		
5	256QAM	12	0	15.86	15.86	15.85		
5	256QAM	12	7	15.94	15.76	15.93	17.3	4.5
5	256QAM	12	13	15.79	15.94	16.00		
5	256QAM	25	0	15.95	15.76	16.02		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	20.46	20.55	20.42		
3	QPSK	1	8	20.58	20.68	20.51	21.8	0
3	QPSK	1	14	20.53	20.60	20.46		
3	QPSK	8	0	19.62	19.65	19.51		
3	QPSK	8	4	19.64	19.72	19.58	20.8	1
3	QPSK	8	7	19.58	19.68	19.57		
3	QPSK	15	0	19.61	19.70	19.56		
3	16QAM	1	0	19.78	19.88	19.76		
3	16QAM	1	8	19.90	19.97	19.80	20.8	1
3	16QAM	1	14	19.80	19.94	19.80		
3	16QAM	8	0	18.70	18.70	18.55		
3	16QAM	8	4	18.71	18.79	18.61	19.8	2
3	16QAM	8	7	18.65	18.74	18.63		
3	16QAM	15	0	18.64	18.71	18.57		
3	64QAM	1	0	18.71	18.83	18.69		
3	64QAM	1	8	18.87	18.92	18.81	19.8	2
3	64QAM	1	14	18.73	18.85	18.74		
3	64QAM	8	0	17.67	17.69	17.58		
3	64QAM	8	4	17.66	17.78	17.62	18.8	3
3	64QAM	8	7	17.67	17.75	17.62		
3	64QAM	15	0	17.63	17.72	17.61		
3	256QAM	1	0	16.05	15.94	16.05		
3	256QAM	1	8	15.97	16.08	15.99	17.3	4.5
3	256QAM	1	14	16.07	15.99	16.10		
3	256QAM	8	0	15.78	15.82	15.83		
3	256QAM	8	4	15.99	15.88	15.89	17.3	4.5
3	256QAM	8	7	15.86	15.84	15.95		
3	256QAM	15	0	15.90	15.83	15.91		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	20.43	20.54	20.33		
1.4	QPSK	1	3	20.49	20.57	20.43		
1.4	QPSK	1	5	20.41	20.51	20.40	21.8	0
1.4	QPSK	3	0	20.47	20.59	20.38		
1.4	QPSK	3	1	20.52	20.59	20.40		
1.4	QPSK	3	3	20.47	20.58	20.45		
1.4	QPSK	6	0	19.49	19.63	19.45	20.8	1
1.4	16QAM	1	0	19.69	19.85	19.67		
1.4	16QAM	1	3	19.84	19.88	19.79		
1.4	16QAM	1	5	19.76	19.83	19.70	20.8	1
1.4	16QAM	3	0	19.56	19.62	19.42		
1.4	16QAM	3	1	19.61	19.67	19.47		
1.4	16QAM	3	3	19.58	19.64	19.50		
1.4	16QAM	6	0	18.59	18.67	18.47	19.8	2
1.4	64QAM	1	0	18.92	19.00	18.84		
1.4	64QAM	1	3	18.98	19.04	18.95		
1.4	64QAM	1	5	18.88	18.99	18.86	19.8	2
1.4	64QAM	3	0	18.88	18.98	18.81		
1.4	64QAM	3	1	18.92	19.01	18.86		
1.4	64QAM	3	3	18.86	18.97	18.88		
1.4	64QAM	6	0	17.88	17.87	17.84	18.8	3
1.4	256QAM	1	0	16.09	15.96	15.96		
1.4	256QAM	1	3	16.08	15.99	15.97		
1.4	256QAM	1	5	15.98	16.09	16.06	17.3	4.5
1.4	256QAM	3	0	15.91	15.80	15.76		
1.4	256QAM	3	1	15.85	15.83	15.88		
1.4	256QAM	3	3	15.90	15.77	16.05		
1.4	256QAM	6	0	15.79	15.91	15.94	17.3	4.5

Band 71

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	683	688		
20	QPSK	1	0	22.43	22.61	22.39	23.3	0
20	QPSK	1	49	22.18	22.35	22.32		
20	QPSK	1	99	22.22	22.22	22.16		
20	QPSK	50	0	21.39	21.42	21.40	22.3	1
20	QPSK	50	24	21.40	21.51	21.41		
20	QPSK	50	50	21.34	21.32	21.27		
20	QPSK	100	0	21.44	21.47	21.39		
20	16QAM	1	0	21.94	21.78	21.87	22.3	1
20	16QAM	1	49	21.63	21.70	21.49		
20	16QAM	1	99	21.49	21.51	21.57		
20	16QAM	50	0	20.51	20.47	20.47	21.3	2
20	16QAM	50	24	20.48	20.43	20.50		
20	16QAM	50	50	20.36	20.33	20.27		
20	16QAM	100	0	20.51	20.42	20.32		
20	64QAM	1	0	20.76	20.63	20.80	21.3	2
20	64QAM	1	49	20.61	20.62	20.61		
20	64QAM	1	99	20.38	20.47	20.41		
20	64QAM	50	0	19.54	19.52	19.48	20.3	3
20	64QAM	50	24	19.57	19.38	19.41		
20	64QAM	50	50	19.41	19.41	19.24		
20	64QAM	100	0	19.60	19.41	19.37		
20	256QAM	1	0	17.67	17.56	17.62	18.8	4.5
20	256QAM	1	49	17.63	17.68	17.66		
20	256QAM	1	99	17.62	17.55	17.65		
20	256QAM	50	0	17.49	17.58	17.49	18.8	4.5
20	256QAM	50	24	17.59	17.53	17.49		
20	256QAM	50	50	17.55	17.43	17.51		
20	256QAM	100	0	17.58	17.48	17.59		
Channel				133197	133297	133347	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	22.60	22.38	22.34	23.3	0
15	QPSK	1	37	22.35	22.19	22.34		
15	QPSK	1	74	22.14	22.20	22.18		
15	QPSK	36	0	21.36	21.41	21.37	22.3	1
15	QPSK	36	20	21.53	21.27	21.31		
15	QPSK	36	39	21.33	21.31	21.27		
15	QPSK	75	0	21.42	21.47	21.37		
15	16QAM	1	0	21.93	21.76	21.83	22.3	1
15	16QAM	1	37	21.62	21.62	21.49		
15	16QAM	1	74	21.44	21.52	21.58		
15	16QAM	36	0	20.49	20.42	20.43	21.3	2
15	16QAM	36	20	20.44	20.42	20.48		
15	16QAM	36	39	20.37	20.26	20.26		
15	16QAM	75	0	20.45	20.40	20.26		
15	64QAM	1	0	20.69	20.56	20.79	21.3	2
15	64QAM	1	37	20.56	20.61	20.60		
15	64QAM	1	74	20.32	20.43	20.33		
15	64QAM	36	0	19.47	19.45	19.41	20.3	3
15	64QAM	36	20	19.52	19.39	19.38		
15	64QAM	36	39	19.34	19.37	19.23		
15	64QAM	75	0	19.56	19.37	19.38		
15	256QAM	1	0	17.74	17.51	17.55	18.8	4.5
15	256QAM	1	37	17.61	17.63	17.74		
15	256QAM	1	74	17.61	17.53	17.63		
15	256QAM	36	0	17.46	17.50	17.47	18.8	4.5
15	256QAM	36	20	17.51	17.60	17.41		
15	256QAM	36	39	17.48	17.52	17.46		
15	256QAM	75	0	17.64	17.58	17.67		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	22.53	22.40	22.32	23.3	0
10	QPSK	1	25	22.27	22.13	22.29		
10	QPSK	1	49	22.14	22.17	22.08		
10	QPSK	25	0	21.34	21.42	21.46	22.3	1
10	QPSK	25	12	21.45	21.31	21.37		
10	QPSK	25	25	21.27	21.34	21.28		
10	QPSK	50	0	21.49	21.47	21.37		
10	16QAM	1	0	21.91	21.80	21.79	22.3	1
10	16QAM	1	25	21.63	21.72	21.43		
10	16QAM	1	49	21.51	21.47	21.59		
10	16QAM	25	0	20.45	20.49	20.42	21.3	2
10	16QAM	25	12	20.48	20.45	20.42		
10	16QAM	25	25	20.38	20.29	20.24		
10	16QAM	50	0	20.43	20.35	20.28		
10	64QAM	1	0	20.78	20.64	20.79	21.3	2
10	64QAM	1	25	20.63	20.62	20.53		
10	64QAM	1	49	20.35	20.49	20.41		
10	64QAM	25	0	19.52	19.52	19.47	20.3	3
10	64QAM	25	12	19.58	19.38	19.39		
10	64QAM	25	25	19.38	19.35	19.26		
10	64QAM	50	0	19.56	19.42	19.32		
10	256QAM	1	0	17.57	17.50	17.53	18.8	4.5
10	256QAM	1	25	17.54	17.75	17.64		
10	256QAM	1	49	17.62	17.56	17.60		
10	256QAM	25	0	17.42	17.56	17.50	18.8	4.5
10	256QAM	25	12	17.64	17.43	17.52		
10	256QAM	25	25	17.46	17.53	17.41		
10	256QAM	50	0	17.50	17.41	17.69		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	22.60	22.37	22.34	23.3	0
5	QPSK	1	12	22.37	22.18	22.31		
5	QPSK	1	24	22.16	22.20	22.13		
5	QPSK	12	0	21.43	21.46	21.39	22.3	1
5	QPSK	12	7	21.51	21.27	21.40		
5	QPSK	12	13	21.29	21.35	21.19		
5	QPSK	25	0	21.46	21.44	21.37		
5	16QAM	1	0	21.86	21.74	21.82	22.3	1
5	16QAM	1	12	21.59	21.68	21.50		
5	16QAM	1	24	21.51	21.49	21.56		
5	16QAM	12	0	20.51	20.46	20.49	21.3	2
5	16QAM	12	7	20.43	20.43	20.42		
5	16QAM	12	13	20.30	20.32	20.22		
5	16QAM	25	0	20.47	20.35	20.26		
5	64QAM	1	0	20.77	20.60	20.77	21.3	2
5	64QAM	1	12	20.57	20.61	20.53		
5	64QAM	1	24	20.38	20.49	20.41		
5	64QAM	12	0	19.48	19.51	19.50	20.3	3
5	64QAM	12	7	19.53	19.30	19.43		
5	64QAM	12	13	19.39	19.33	19.24		
5	64QAM	25	0	19.62	19.38	19.36		
5	256QAM	1	0	17.75	17.53	17.65	18.8	4.5
5	256QAM	1	12	17.61	17.60	17.64		
5	256QAM	1	24	17.61	17.50	17.63		
5	256QAM	12	0	17.40	17.51	17.51	18.8	4.5
5	256QAM	12	7	17.62	17.57	17.46		
5	256QAM	12	13	17.46	17.42	17.55		
5	256QAM	25	0	17.48	17.53	17.54		

Band 38(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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	20.47	20.13	20.20	20.8	0
20	QPSK	1	49	20.46	20.10	20.17		
20	QPSK	1	99	20.41	20.12	20.19		
20	QPSK	50	0	19.49	19.23	19.35	19.8	1
20	QPSK	50	24	19.63	19.27	19.43		
20	QPSK	50	50	19.60	19.25	19.40		
20	QPSK	100	0	19.55	19.40	19.41		
20	16QAM	1	0	19.47	19.30	19.35	19.8	1
20	16QAM	1	49	19.53	19.24	19.48		
20	16QAM	1	99	19.57	19.35	19.39		
20	16QAM	50	0	18.55	18.31	18.38	18.8	2
20	16QAM	50	24	18.63	18.31	18.44		
20	16QAM	50	50	18.56	18.33	18.39		
20	16QAM	100	0	18.65	18.35	18.42		
20	64QAM	1	0	18.22	17.99	18.16	18.8	2
20	64QAM	1	49	18.25	18.08	18.14		
20	64QAM	1	99	18.27	18.10	18.24		
20	64QAM	50	0	17.49	17.31	17.36	17.8	3
20	64QAM	50	24	17.65	17.38	17.49		
20	64QAM	50	50	17.57	17.44	17.47		
20	64QAM	100	0	17.65	17.44	17.50		
20	256QAM	1	0	15.53	15.58	15.60	16.3	4.5
20	256QAM	1	49	15.45	15.42	15.50		
20	256QAM	1	99	15.50	15.50	15.48		
20	256QAM	50	0	15.77	15.81	15.77	16.3	4.5
20	256QAM	50	24	15.81	15.79	15.84		
20	256QAM	50	50	15.79	15.81	15.80		
20	256QAM	100	0	15.78	15.73	15.81		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	20.46	20.20	20.41	20.8	0
15	QPSK	1	37	20.45	20.15	20.31		
15	QPSK	1	74	20.39	20.15	20.33		
15	QPSK	36	0	19.61	19.35	19.40	19.8	1
15	QPSK	36	20	19.64	19.36	19.38		
15	QPSK	36	39	19.60	19.34	19.39		
15	QPSK	75	0	19.67	19.42	19.43		
15	16QAM	1	0	19.53	19.40	19.32	19.8	1
15	16QAM	1	37	19.55	19.05	19.31		
15	16QAM	1	74	19.60	19.32	19.41		
15	16QAM	36	0	18.63	18.26	18.35	18.8	2
15	16QAM	36	20	18.69	18.35	18.37		
15	16QAM	36	39	18.77	18.25	18.46		
15	16QAM	75	0	18.80	18.41	18.45		
15	64QAM	1	0	18.35	18.06	18.04	18.8	2
15	64QAM	1	37	18.32	18.12	18.14		
15	64QAM	1	74	18.34	18.11	18.28		
15	64QAM	36	0	17.61	17.30	17.47	17.8	3
15	64QAM	36	20	17.56	17.38	17.45		
15	64QAM	36	39	17.63	17.40	17.44		
15	64QAM	75	0	17.64	17.43	17.51		
15	256QAM	1	0	15.43	15.53	15.58	16.3	4.5
15	256QAM	1	37	15.48	15.51	15.54		
15	256QAM	1	74	15.54	15.55	15.49		
15	256QAM	36	0	15.79	15.76	15.70	16.3	4.5
15	256QAM	36	20	15.85	15.74	15.81		
15	256QAM	36	39	15.86	15.72	15.89		
15	256QAM	75	0	15.74	15.63	15.87		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	20.29	20.22	20.42	20.8	0
10	QPSK	1	25	20.40	20.21	20.28		
10	QPSK	1	49	20.31	20.22	20.30		
10	QPSK	25	0	19.55	19.33	19.38	19.8	1
10	QPSK	25	12	19.64	19.31	19.49		
10	QPSK	25	25	19.57	19.30	19.50		
10	QPSK	50	0	19.66	19.32	19.49		
10	16QAM	1	0	19.71	19.37	19.42	19.8	1
10	16QAM	1	25	19.64	19.26	19.38		
10	16QAM	1	49	19.61	19.34	19.49		
10	16QAM	25	0	18.67	18.39	18.41	18.8	2
10	16QAM	25	12	18.64	18.51	18.56		
10	16QAM	25	25	18.61	18.40	18.38		
10	16QAM	50	0	18.68	18.47	18.55		
10	64QAM	1	0	18.54	18.11	18.22	18.8	2
10	64QAM	1	25	18.31	18.10	18.20		
10	64QAM	1	49	18.60	18.21	18.07		
10	64QAM	25	0	17.61	17.33	17.35	17.8	3
10	64QAM	25	12	17.68	17.41	17.68		
10	64QAM	25	25	17.70	17.39	17.66		
10	64QAM	50	0	17.66	17.44	17.52		
10	256QAM	1	0	15.43	15.62	15.57	16.3	4.5
10	256QAM	1	25	15.40	15.45	15.41		
10	256QAM	1	49	15.40	15.55	15.52		
10	256QAM	25	0	15.81	15.72	15.72	16.3	4.5
10	256QAM	25	12	15.77	15.85	15.82		
10	256QAM	25	25	15.79	15.80	15.76		
10	256QAM	50	0	15.88	15.66	15.85		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	20.39	20.15	20.36	20.8	0
5	QPSK	1	12	20.41	20.28	20.39		
5	QPSK	1	24	20.41	20.27	20.38		
5	QPSK	12	0	19.67	19.31	19.50	19.8	1
5	QPSK	12	7	19.68	19.48	19.54		
5	QPSK	12	13	19.70	19.36	19.51		
5	QPSK	25	0	19.65	19.33	19.48		
5	16QAM	1	0	19.64	19.41	19.42	19.8	1
5	16QAM	1	12	19.57	19.37	19.57		
5	16QAM	1	24	19.66	19.40	19.49		
5	16QAM	12	0	18.66	18.29	18.41	18.8	2
5	16QAM	12	7	18.61	18.38	18.42		
5	16QAM	12	13	18.60	18.35	18.50		
5	16QAM	25	0	18.67	18.47	18.53		
5	64QAM	1	0	18.39	18.08	18.28	18.8	2
5	64QAM	1	12	18.41	18.13	18.28		
5	64QAM	1	24	18.40	18.16	18.31		
5	64QAM	12	0	17.65	17.34	17.52	17.8	3
5	64QAM	12	7	17.70	17.42	17.56		
5	64QAM	12	13	17.69	17.39	17.53		
5	64QAM	25	0	17.68	17.41	17.54		
5	256QAM	1	0	15.57	15.51	15.69	16.3	4.5
5	256QAM	1	12	15.41	15.32	15.57		
5	256QAM	1	24	15.48	15.60	15.41		
5	256QAM	12	0	15.67	15.86	15.75	16.3	4.5
5	256QAM	12	7	15.85	15.87	15.81		
5	256QAM	12	13	15.82	15.82	15.83		
5	256QAM	25	0	15.69	15.79	15.76		

Band 41 (2.6G Band)–Class 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.27	20.42	20.28	20.28	20.43	20.8	0
20	QPSK	1	49	20.33	20.49	20.33	20.33	20.47		
20	QPSK	1	99	20.27	20.47	20.33	20.31	20.44		
20	QPSK	50	0	19.38	19.56	19.38	19.44	19.58	19.8	1
20	QPSK	50	24	19.39	19.65	19.44	19.48	19.52		
20	QPSK	50	50	19.40	19.66	19.40	19.58	19.61		
20	QPSK	100	0	19.44	19.57	19.45	19.55	19.51		
20	16QAM	1	0	19.49	19.49	19.43	19.47	19.48	19.8	1
20	16QAM	1	49	19.35	19.50	19.49	19.44	19.38		
20	16QAM	1	99	19.39	19.59	19.78	19.57	19.60		
20	16QAM	50	0	18.42	18.51	18.49	18.56	18.60	18.8	2
20	16QAM	50	24	18.43	18.59	18.41	18.57	18.51		
20	16QAM	50	50	18.45	18.58	18.48	18.59	18.62		
20	16QAM	100	0	18.39	18.70	18.48	18.64	18.62		
20	64QAM	1	0	18.18	18.13	18.30	18.27	18.30	18.8	2
20	64QAM	1	49	18.08	18.19	18.38	18.27	18.25		
20	64QAM	1	99	18.03	18.29	18.44	18.25	18.32		
20	64QAM	50	0	17.54	17.60	17.46	17.56	17.53	17.8	3
20	64QAM	50	24	17.52	17.64	17.43	17.47	17.66		
20	64QAM	50	50	17.41	17.51	17.51	17.52	17.68		
20	64QAM	100	0	17.40	17.63	17.58	17.57	17.57		
20	256QAM	1	0	15.52	15.46	15.41	15.38	15.32	16.3	4.5
20	256QAM	1	49	15.40	15.53	15.35	15.31	15.14		
20	256QAM	1	99	15.47	15.43	15.33	15.31	15.15		
20	256QAM	50	0	15.74	15.60	15.65	15.63	15.49	16.3	4.5
20	256QAM	50	24	15.78	15.62	15.62	15.59	15.48		
20	256QAM	50	50	15.76	15.54	15.66	15.57	15.49		
20	256QAM	100	0	15.69	15.62	15.57	15.50	15.38		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.20	20.30	20.21	20.32	20.41	20.8	0
15	QPSK	1	37	20.16	20.38	20.22	20.16	20.26		
15	QPSK	1	74	20.15	20.43	20.41	20.29	20.39		
15	QPSK	36	0	19.40	19.45	19.20	19.45	19.45	19.8	1
15	QPSK	36	20	19.35	19.51	19.47	19.40	19.47		
15	QPSK	36	39	19.34	19.56	19.47	19.45	19.49		
15	QPSK	75	0	19.33	19.53	19.48	19.38	19.49		
15	16QAM	1	0	19.38	19.63	19.41	19.56	19.45	19.8	1
15	16QAM	1	37	19.32	19.26	19.35	19.43	19.22		
15	16QAM	1	74	19.32	19.60	19.55	19.47	19.66		
15	16QAM	36	0	18.33	18.45	18.29	18.39	18.39	18.8	2
15	16QAM	36	20	18.29	18.54	18.38	18.34	18.51		
15	16QAM	36	39	18.32	18.54	18.37	18.40	18.52		
15	16QAM	75	0	18.41	18.60	18.42	18.48	18.56		
15	64QAM	1	0	18.04	18.20	18.08	18.12	18.22	18.8	2
15	64QAM	1	37	18.12	18.24	18.16	18.26	18.20		
15	64QAM	1	74	18.02	18.31	18.27	18.30	18.25		
15	64QAM	36	0	17.34	17.43	17.37	17.40	17.56	17.8	3
15	64QAM	36	20	17.38	17.57	17.44	17.36	17.47		
15	64QAM	36	39	17.38	17.56	17.45	17.51	17.52		
15	64QAM	75	0	17.38	17.56	17.46	17.47	17.49		
15	256QAM	1	0	15.55	15.46	15.60	15.53	15.44	16.3	4.5
15	256QAM	1	37	15.46	15.43	15.40	15.40	15.51		
15	256QAM	1	74	15.50	15.34	15.37	15.52	15.36		
15	256QAM	36	0	15.79	15.66	15.68	15.64	15.65	16.3	4.5
15	256QAM	36	20	15.70	15.55	15.69	15.69	15.57		
15	256QAM	36	39	15.66	15.57	15.89	15.68	15.62		
15	256QAM	75	0	15.91	15.72	15.72	15.61	15.66		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.22	20.37	20.34	20.29	20.45	20.8	0
10	QPSK	1	25	20.18	20.40	20.38	20.28	20.38		
10	QPSK	1	49	20.18	20.24	20.34	20.17	20.21		
10	QPSK	25	0	19.37	19.50	19.38	19.40	19.47	19.8	1
10	QPSK	25	12	19.35	19.49	19.42	19.41	19.56		
10	QPSK	25	25	19.33	19.54	19.48	19.52	19.56		
10	QPSK	50	0	19.30	19.62	19.38	19.37	19.51		
10	16QAM	1	0	19.29	19.55	19.47	19.54	19.59	19.8	1
10	16QAM	1	25	19.35	19.60	19.41	19.55	19.54		
10	16QAM	1	49	19.30	19.52	19.42	19.52	19.55		
10	16QAM	25	0	18.24	18.49	18.33	18.30	18.38	18.8	2
10	16QAM	25	12	18.35	18.56	18.37	18.32	18.54		
10	16QAM	25	25	18.31	18.54	18.41	18.51	18.55		
10	16QAM	50	0	18.40	18.59	18.52	18.45	18.50		
10	64QAM	1	0	18.06	18.13	18.15	18.20	18.07	18.8	2
10	64QAM	1	25	17.97	18.28	18.13	18.31	18.24		
10	64QAM	1	49	17.84	18.20	18.15	18.27	18.25		
10	64QAM	25	0	17.52	17.57	17.39	17.50	17.55	17.8	3
10	64QAM	25	12	17.45	17.65	17.44	17.43	17.63		
10	64QAM	25	25	17.53	17.73	17.50	17.44	17.53		
10	64QAM	50	0	17.37	17.65	17.48	17.44	17.55		
10	256QAM	1	0	15.55	15.40	15.43	15.59	15.54	16.3	4.5
10	256QAM	1	25	15.38	15.63	15.34	15.37	15.45		
10	256QAM	1	49	15.40	15.38	15.45	15.39	15.45		
10	256QAM	25	0	15.65	15.58	15.71	15.78	15.67	16.3	4.5
10	256QAM	25	12	15.84	15.58	15.88	15.80	15.65		
10	256QAM	25	25	15.74	15.57	15.86	15.81	15.55		
10	256QAM	50	0	15.79	15.52	15.71	15.75	15.72		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	20.22	20.33	20.20	20.39	20.39	20.8	0
5	QPSK	1	12	20.26	20.35	20.28	20.32	20.38		
5	QPSK	1	24	20.24	20.39	20.26	20.34	20.40		
5	QPSK	12	0	19.28	19.52	19.40	19.37	19.49	19.8	1
5	QPSK	12	7	19.37	19.57	19.51	19.45	19.59		
5	QPSK	12	13	19.38	19.53	19.48	19.41	19.42		
5	QPSK	25	0	19.31	19.51	19.47	19.40	19.53		
5	16QAM	1	0	19.38	19.52	19.40	19.53	19.51	19.8	1
5	16QAM	1	12	19.67	19.45	19.69	19.42	19.46		
5	16QAM	1	24	19.37	19.58	19.52	19.61	19.53		
5	16QAM	12	0	18.35	18.56	18.37	18.39	18.53	18.8	2
5	16QAM	12	7	18.30	18.61	18.40	18.41	18.52		
5	16QAM	12	13	18.32	18.56	18.36	18.45	18.46		
5	16QAM	25	0	18.31	18.59	18.52	18.42	18.54		
5	64QAM	1	0	18.16	18.23	18.15	18.21	18.23	18.8	2
5	64QAM	1	12	18.05	18.35	18.12	18.28	18.17		
5	64QAM	1	24	18.11	18.20	18.24	18.27	18.24		
5	64QAM	12	0	17.41	17.55	17.37	17.44	17.53	17.8	3
5	64QAM	12	7	17.42	17.62	17.49	17.46	17.53		
5	64QAM	12	13	17.35	17.59	17.46	17.51	17.57		
5	64QAM	25	0	17.39	17.57	17.48	17.44	17.52		
5	256QAM	1	0	15.59	15.47	15.57	15.49	15.38	16.3	4.5
5	256QAM	1	12	15.36	15.45	15.43	15.35	15.59		
5	256QAM	1	24	15.42	15.44	15.53	15.40	15.47		
5	256QAM	12	0	15.82	15.60	15.81	15.82	15.56	16.3	4.5
5	256QAM	12	7	15.73	15.58	15.84	15.74	15.56		
5	256QAM	12	13	15.73	15.50	15.86	15.84	15.52		
5	256QAM	25	0	15.78	15.72	15.70	15.71	15.63		

Band 41 (2.6G Band) HPUE (Limit 27)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.42	22.65	22.41	22.50	22.58	23.3	0
20	QPSK	1	49	22.44	22.71	22.45	22.54	22.62		
20	QPSK	1	99	22.41	22.65	22.43	22.51	22.60		
20	QPSK	50	0	21.65	21.80	21.69	21.75	21.85	22.3	1
20	QPSK	50	24	21.67	21.89	21.67	21.73	21.81		
20	QPSK	50	50	21.70	21.92	21.77	21.79	21.87		
20	QPSK	100	0	21.75	21.89	21.77	21.83	21.82		
20	16QAM	1	0	21.84	21.92	21.91	21.98	22.09	22.3	1
20	16QAM	1	49	21.79	21.94	21.82	21.90	21.96		
20	16QAM	1	99	21.73	21.99	21.92	22.00	21.94		
20	16QAM	50	0	20.78	20.80	20.73	20.77	20.85	21.3	2
20	16QAM	50	24	20.77	20.92	20.71	20.77	20.85		
20	16QAM	50	50	20.75	20.89	20.80	20.83	20.88		
20	16QAM	100	0	20.76	20.93	20.80	20.80	20.84		
20	64QAM	1	0	20.69	20.78	20.64	20.81	20.87	21.3	2
20	64QAM	1	49	20.62	20.78	20.63	20.81	20.79		
20	64QAM	1	99	20.61	20.78	20.71	20.80	20.79		
20	64QAM	50	0	19.74	19.83	19.70	19.77	19.89	20.3	3
20	64QAM	50	24	19.77	19.92	19.71	19.76	19.88		
20	64QAM	50	50	19.75	19.91	19.80	19.84	19.91		
20	64QAM	100	0	19.78	19.93	19.79	19.85	19.84		
20	256QAM	1	0	18.03	18.01	17.99	17.96	17.82	18.8	4.5
20	256QAM	1	49	17.94	17.88	17.91	17.73	17.71		
20	256QAM	1	99	18.01	17.87	17.91	17.82	17.69		
20	256QAM	50	0	18.22	18.13	18.08	18.08	17.96	18.8	4.5
20	256QAM	50	24	18.24	18.16	18.05	18.02	17.91		
20	256QAM	50	50	18.19	18.06	18.10	18.03	17.91		
20	256QAM	100	0	18.16	18.02	18.01	17.92	17.81		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.50	22.60	22.55	22.56	22.69	23.3	0
15	QPSK	1	37	22.49	22.64	22.57	22.50	22.64		
15	QPSK	1	74	22.45	22.61	22.64	22.58	22.70		
15	QPSK	36	0	21.66	21.79	21.68	21.70	21.80	22.3	1
15	QPSK	36	20	21.69	21.89	21.73	21.73	21.75		
15	QPSK	36	39	21.66	21.88	21.74	21.76	21.81		
15	QPSK	75	0	21.66	21.87	21.74	21.70	21.79		
15	16QAM	1	0	21.78	21.98	21.83	21.89	22.01	22.3	1
15	16QAM	1	37	21.76	21.92	21.80	21.92	21.94		
15	16QAM	1	74	21.75	22.09	21.90	21.95	22.02		
15	16QAM	36	0	20.67	20.77	20.66	20.70	20.78	21.3	2
15	16QAM	36	20	20.66	20.86	20.72	20.68	20.77		
15	16QAM	36	39	20.63	20.86	20.71	20.78	20.81		
15	16QAM	75	0	20.71	20.89	20.76	20.72	20.81		
15	64QAM	1	0	20.64	20.77	20.61	20.75	20.84	21.3	2
15	64QAM	1	37	20.58	20.81	20.64	20.82	20.81		
15	64QAM	1	74	20.56	20.92	20.74	20.92	20.87		
15	64QAM	36	0	19.70	19.79	19.71	19.75	19.84	20.3	3
15	64QAM	36	20	19.70	19.90	19.76	19.73	19.82		
15	64QAM	36	39	19.67	19.89	19.77	19.79	19.88		
15	64QAM	75	0	19.70	19.88	19.78	19.72	19.83		
15	256QAM	1	0	18.00	17.93	17.93	17.90	17.73	18.8	4.5
15	256QAM	1	37	17.91	17.98	17.99	17.73	17.73		
15	256QAM	1	74	17.92	17.80	17.99	17.91	17.71		
15	256QAM	36	0	18.27	18.15	18.13	18.08	17.95	18.8	4.5
15	256QAM	36	20	18.16	18.24	17.99	18.04	17.87		
15	256QAM	36	39	18.15	18.09	18.15	18.09	17.91		
15	256QAM	75	0	18.22	17.99	18.01	17.87	17.75		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.45	22.64	22.65	22.61	22.67	23.3	0
10	QPSK	1	25	22.43	22.67	22.65	22.63	22.62		
10	QPSK	1	49	22.47	22.67	22.62	22.69	22.66		
10	QPSK	25	0	21.63	21.77	21.67	21.72	21.78	22.3	1
10	QPSK	25	12	21.7	21.91	21.69	21.72	21.88		
10	QPSK	25	25	21.62	21.86	21.75	21.79	21.85		
10	QPSK	50	0	21.69	21.9	21.75	21.73	21.78		
10	16QAM	1	0	21.85	22.02	21.95	22	22.06	22.3	1
10	16QAM	1	25	21.76	22.04	22	21.94	22.05		
10	16QAM	1	49	21.87	22.03	21.9	21.91	22.01		
10	16QAM	25	0	20.7	20.8	20.75	20.75	20.81	21.3	2
10	16QAM	25	12	20.75	20.94	20.72	20.79	20.91		
10	16QAM	25	25	20.67	20.86	20.79	20.83	20.87		
10	16QAM	50	0	20.71	20.92	20.79

Band 48 (3.5G Band)--FCC

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	22.56	22.80	22.89	22.96	23.8	0
20	QPSK	1	49	22.53	22.71	22.74	22.85		
20	QPSK	1	99	22.53	22.78	22.73	22.93		
20	QPSK	50	0	21.57	21.85	21.93	22.00	22.8	1
20	QPSK	50	24	21.58	21.87	21.94	22.06		
20	QPSK	50	50	21.57	21.86	21.88	22.04		
20	QPSK	100	0	21.63	21.88	21.92	22.03		
20	16QAM	1	0	21.62	21.81	22.00	21.92	22.8	1
20	16QAM	1	49	21.58	21.74	21.85	21.85		
20	16QAM	1	99	21.54	21.86	21.89	21.96		
20	16QAM	50	0	20.65	20.93	20.97	21.03	21.8	2
20	16QAM	50	24	20.63	20.90	20.98	21.06		
20	16QAM	50	50	20.60	20.89	20.95	21.07		
20	16QAM	100	0	20.64	20.93	20.96	21.08		
20	64QAM	1	0	20.64	20.84	20.95	21.00	21.8	2
20	64QAM	1	49	20.57	20.79	20.81	20.92		
20	64QAM	1	99	20.59	20.89	20.80	20.97		
20	64QAM	50	0	19.67	19.94	20.00	20.07	20.8	3
20	64QAM	50	24	19.68	19.96	19.95	20.00		
20	64QAM	50	50	19.65	19.91	19.95	20.08		
20	64QAM	100	0	19.62	19.89	19.93	20.05		
20	256QAM	1	0	17.53	17.64	17.71	17.63	19.3	4.5
20	256QAM	1	49	17.40	17.58	17.56	17.56		
20	256QAM	1	99	17.37	17.53	17.51	17.58		
20	256QAM	50	0	17.82	17.92	17.96	17.94	19.3	4.5
20	256QAM	50	24	17.78	17.95	17.96	17.96		
20	256QAM	50	50	17.67	17.85	17.82	17.86		
20	256QAM	100	0	17.74	17.84	17.84	17.90		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	22.53	22.79	22.84	22.93	23.8	0
15	QPSK	1	37	22.54	22.66	22.71	22.86		
15	QPSK	1	74	22.53	22.79	22.65	22.90		
15	QPSK	36	0	21.61	21.92	21.88	21.92	22.8	1
15	QPSK	36	20	21.57	21.86	21.95	21.99		
15	QPSK	36	39	21.51	21.84	21.82	21.98		
15	QPSK	75	0	21.62	21.84	21.92	22.02		
15	16QAM	1	0	21.59	21.78	21.94	21.92	22.8	1
15	16QAM	1	37	21.55	21.75	21.83	21.78		
15	16QAM	1	74	21.50	21.84	21.84	21.93		
15	16QAM	36	0	20.65	20.93	20.94	20.97	21.8	2
15	16QAM	36	20	20.59	20.87	20.92	21.01		
15	16QAM	36	39	20.60	20.91	20.87	21.01		
15	16QAM	75	0	20.61	20.94	20.94	21.10		
15	64QAM	1	0	20.57	20.86	20.88	20.94	21.8	2
15	64QAM	1	37	20.53	20.74	20.81	20.91		
15	64QAM	1	74	20.53	20.88	20.73	20.99		
15	64QAM	36	0	19.62	19.96	19.92	20.07	20.8	3
15	64QAM	36	20	19.68	19.97	19.90	20.02		
15	64QAM	36	39	19.61	19.88	19.94	20.08		
15	64QAM	75	0	19.54	19.89	19.87	19.97		
15	256QAM	1	0	17.61	17.55	17.77	17.60	19.3	4.5
15	256QAM	1	37	17.50	17.55	17.54	17.47		
15	256QAM	1	74	17.42	17.51	17.57	17.54		
15	256QAM	36	0	17.84	17.99	17.87	17.89	19.3	4.5
15	256QAM	36	20	17.86	17.93	18.03	17.87		
15	256QAM	36	39	17.57	17.91	17.77	17.92		
15	256QAM	75	0	17.83	17.79	17.74	17.94		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	22.57	22.78	22.83	22.89	23.8	0
10	QPSK	1	25	22.52	22.67	22.66	22.87		
10	QPSK	1	49	22.47	22.80	22.68	22.93		
10	QPSK	25	0	21.62	21.90	21.93	21.95	22.8	1
10	QPSK	25	12	21.56	21.82	21.88	22.05		
10	QPSK	25	25	21.58	21.80	21.85	21.99		
10	QPSK	50	0	21.61	21.87	21.90	21.97		
10	16QAM	1	0	21.55	21.83	21.92	21.94	22.8	1
10	16QAM	1	25	21.59	21.74	21.84	21.81		
10	16QAM	1	49	21.54	21.79	21.82	21.95		
10	16QAM	25	0	20.60	20.93	20.90	21.00	21.8	2
10	16QAM	25	12	20.58	20.88	20.94	21.00		
10	16QAM	25	25	20.56	20.86	20.87	21.06		
10	16QAM	50	0	20.59	20.91	20.89	21.05		
10	64QAM	1	0	20.65	20.80	20.96	20.92	21.8	2
10	64QAM	1	25	20.57	20.75	20.75	20.86		
10	64QAM	1	49	20.59	20.86	20.75	20.99		
10	64QAM	25	0	19.59	19.89	19.94	19.99	20.8	3
10	64QAM	25	12	19.67	19.89	19.92	20.01		
10	64QAM	25	25	19.66	19.84	19.88	20.09		
10	64QAM	50	0	19.58	19.83	19.88	20.07		
10	256QAM	1	0	17.46	17.54	17.77	17.59	19.3	4.5
10	256QAM	1	25	17.36	17.61	17.64	17.65		
10	256QAM	1	49	17.33	17.53	17.41	17.61		
10	256QAM	25	0	17.73	17.90	18.06	17.90	19.3	4.5
10	256QAM	25	12	17.84	17.90	17.94	18.01		
10	256QAM	25	25	17.77	17.80	17.85	17.96		
10	256QAM	50	0	17.69	17.75	17.77	17.90		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	22.54	22.82	22.87	22.89	23.8	0
5	QPSK	1	12	22.45	22.64	22.75	22.80		
5	QPSK	1	24	22.54	22.73	22.68	22.95		
5	QPSK	12	0	21.62	21.87	21.93	21.98	22.8	1
5	QPSK	12	7	21.50	21.87	21.87	21.99		
5	QPSK	12	13	21.55	21.78	21.83	22.00		
5	QPSK	25	0	21.61	21.86	21.92	21.98		
5	16QAM	1	0	21.63	21.79	22.02	21.92	22.8	1
5	16QAM	1	12	21.60	21.68	21.79	21.80		
5	16QAM	1	24	21.53	21.79	21.89	21.96		
5	16QAM	12	0	20.67	20.90	20.94	20.99	21.8	2
5	16QAM	12	7	20.65	20.91	20.98	21.06		
5	16QAM	12	13	20.57	20.84	20.95	20.99		
5	16QAM	25	0	20.65	20.86	20.88	21.00		
5	64QAM	1	0	20.61	20.83	20.89	21.00	21.8	2
5	64QAM	1	12	20.51	20.81	20.76	20.89		
5	64QAM	1	24	20.61	20.90	20.75	20.91		
5	64QAM	12	0	19.68	19.90	19.93	20.04	20.8	3
5	64QAM	12	7	19.66	19.90	19.92	19.92		
5	64QAM	12	13	19.64	19.88	19.97	20.01		
5	64QAM	25	0	19.63	19.91	19.89	20.07		
5	256QAM	1	0	17.57	17.73	17.63	17.54	19.3	4.5
5	256QAM	1	12	17.45	17.59	17.47	17.61		
5	256QAM	1	24	17.36	17.46	17.53	17.55		
5	256QAM	12	0	17.74	17.89	17.92	18.01	19.3	4.5
5	256QAM	12	7	17.87	17.87	17.92	17.88		
5	256QAM	12	13	17.65	17.77	17.82	17.83		
5	256QAM	25	0	17.65	17.79	17.76	17.92		

Reduced power for Hotspot on-UAT

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	30.58	30.63	30.77	32.00	21.58	21.63	21.77	23.00
GPRS 1 Tx slot	30.51	30.52	30.71	32.00	21.51	21.52	21.71	23.00
GPRS 2 Tx slots	27.66	27.60	27.50	29.00	21.66	21.60	21.50	23.00
GPRS 3 Tx slots	25.98	25.95	26.02	27.50	21.72	21.69	21.76	23.24
GPRS 4 Tx slots	24.53	24.56	24.40	26.20	21.53	21.56	21.40	23.20
EDGE 1 Tx slot	24.32	24.56	24.63	26.00	15.32	15.56	15.63	17.00
EDGE 2 Tx slots	21.82	21.85	21.98	22.50	15.82	15.85	15.98	16.50
EDGE 3 Tx slots	20.77	20.79	20.86	21.50	16.51	16.53	16.60	17.24
EDGE 4 Tx slots	19.51	19.58	19.66	20.90	16.51	16.56	16.66	17.90

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	25.96	26.11	25.95	27.10	16.96	17.11	16.95	18.10
GPRS 1 Tx slot	25.94	26.10	25.92	27.10	16.94	17.10	16.92	18.10
GPRS 2 Tx slots	23.46	23.32	23.67	24.60	17.46	17.32	17.67	18.60
GPRS 3 Tx slots	21.99	22.08	22.10	23.30	17.73	17.82	17.84	19.04
GPRS 4 Tx slots	20.49	20.61	20.52	21.80	17.49	17.61	17.52	18.80
EDGE 1 Tx slot	21.70	21.73	21.76	23.10	12.70	12.73	12.76	14.10
EDGE 2 Tx slots	20.41	20.42	20.53	22.00	14.41	14.42	14.53	16.00
EDGE 3 Tx slots	19.36	19.38	19.46	20.90	15.10	15.12	15.20	16.64
EDGE 4 Tx slots	18.06	18.13	18.27	19.90	15.06	15.13	15.27	16.90

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	19.28	19.35	19.25	20.00	20.39	20.41	20.42	21.10	21.04	21.05	20.97	21.90
3GPP Rel 99	RMC 12.2Kbps	19.36	19.38	19.28	20.00	20.42	20.44	20.45	21.10	21.06	21.07	20.98	21.90
3GPP Rel 6	HSDPA Subtest-1	18.35	18.44	18.35	19.00	19.43	19.48	19.45	20.10	19.88	19.79	19.73	20.90
3GPP Rel 6	HSDPA Subtest-2	18.31	18.41	18.35	19.00	19.46	19.50	19.48	20.10	19.86	19.81	19.74	20.90
3GPP Rel 6	HSDPA Subtest-3	17.51	17.94	17.80	18.50	18.97	18.98	18.97	19.60	19.40	19.33	19.19	20.40
3GPP Rel 6	HSDPA Subtest-4	17.85	17.92	17.82	18.50	19.00	18.99	18.94	19.60	19.39	19.30	19.20	20.40
3GPP Rel 8	DC-HSDPA Subtest-1	18.11	18.22	18.12	19.00	19.23	19.24	19.28	20.10	19.70	19.56	19.57	20.90
3GPP Rel 8	DC-HSDPA Subtest-2	18.15	18.27	18.17	19.00	19.31	19.30	19.31	20.10	19.67	19.66	19.53	20.90
3GPP Rel 8	DC-HSDPA Subtest-3	17.29	17.73	17.59	18.50	18.82	18.83	18.78	19.60	19.21	19.09	19.05	20.40
3GPP Rel 8	DC-HSDPA Subtest-4	17.65	17.78	17.60	18.50	18.86	18.77	18.72	19.60	19.22	19.13	18.97	20.40
3GPP Rel 6	HSUPA Subtest-1	18.34	18.48	18.35	19.00	19.49	19.57	19.52	20.10	19.86	19.79	19.77	20.90
3GPP Rel 6	HSUPA Subtest-2	17.36	17.45	17.38	18.00	18.45	18.55	18.48	19.10	17.87	17.79	17.73	18.90
3GPP Rel 6	HSUPA Subtest-3	15.35	15.43	15.40	16.00	17.34	17.49	17.39	18.10	18.72	18.76	18.73	19.90
3GPP Rel 6	HSUPA Subtest-4	16.13	16.22	16.18	17.00	18.33	18.34	18.27	18.10	17.86	17.75	17.78	18.90
3GPP Rel 6	HSUPA Subtest-5	18.31	18.47	18.34	19.00	19.54	19.47	19.46	20.10	19.91	19.79	19.72	20.90
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.92	16.01	15.91	16.50	18.21	18.24	18.11	17.60	17.54	17.50	17.55	18.40

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	20.65	20.68	20.62	22.20	19.33	19.40	19.33	20.40	20.77	20.81	20.75	22.10
RC3 SO55	20.63	20.66	20.61	22.20	19.32	19.38	19.31	20.40	20.76	20.80	20.73	22.10
RC3 SO32 (F+SCH)	20.62	20.65	20.59	22.20	19.30	19.36	19.29	20.40	20.74	20.78	20.72	22.10
RC3 SO32 (+SCH)	20.60	20.63	20.57	22.20	19.29	19.35	19.27	20.40	20.72	20.76	20.70	22.10
RTAP 153.6Kbps	20.59	20.60	20.55	22.20	19.27	19.33	19.26	20.40	20.71	20.75	20.68	22.10
RETAP 4096Bits	20.57	20.59	20.53	22.20	19.25	19.32	19.24	20.40	20.69	20.73	20.67	22.10

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				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	18.03	18.12	18.08	19.1	0
20	QPSK	1	49	18.02	18.05	17.94		
20	QPSK	1	99	17.82	17.88	18.01		
20	QPSK	50	0	18.00	18.10	18.05		
20	QPSK	50	24	17.94	18.04	17.96		
20	QPSK	50	50	17.93	18.02	17.95		
20	QPSK	100	0	17.98	18.07	18.03		
20	16QAM	1	0	17.99	17.91	17.99	19.1	0
20	16QAM	1	49	17.84	18.04	18.03		
20	16QAM	1	99	17.97	18.01	18.01		
20	16QAM	50	0	18.05	18.02	17.90		
20	16QAM	50	24	17.96	18.03	17.98		
20	16QAM	50	50	17.92	18.02	18.01		
20	16QAM	100	0	18.04	17.95	17.89		
20	64QAM	1	0	17.91	18.07	18.08		
20	64QAM	1	49	17.95	18.02	17.79	19.1	0
20	64QAM	1	99	17.85	17.96	17.99		
20	64QAM	50	0	18.09	17.96	18.01		
20	64QAM	50	24	18.01	18.02	17.91	18.8	0.3
20	64QAM	50	50	17.84	17.93	18.07		
20	64QAM	100	0	17.97	17.89	18.00		
20	256QAM	1	0	15.94	15.75	15.57		
20	256QAM	1	49	15.74	15.95	15.81	17.3	1.8
20	256QAM	1	99	15.93	15.92	15.99		
20	256QAM	50	0	15.79	15.83	15.75		
20	256QAM	50	24	15.73	15.80	15.67	17.3	1.8
20	256QAM	50	50	15.73	15.82	15.75		
20	256QAM	100	0	15.71	15.76	15.66		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	17.92	17.92	18.08	19.1	0
15	QPSK	1	37	17.76	17.76	17.91		
15	QPSK	1	74	17.78	17.64	17.74		
15	QPSK	36	0	17.98	18.08	17.86		
15	QPSK	36	20	17.85	17.94	17.76	19.1	0
15	QPSK	36	39	17.80	18.00	17.75		
15	QPSK	75	0	17.83	17.97	17.88		
15	16QAM	1	0	17.81	17.67	17.98		
15	16QAM	1	37	17.81	17.84	18.01	19.1	0
15	16QAM	1	74	17.84	17.88	17.98		
15	16QAM	36	0	17.81	17.80	17.70		
15	16QAM	36	20	17.85	17.90	17.96	19.1	0
15	16QAM	36	39	17.94	18.05	18.02		
15	16QAM	75	0	17.96	17.87	17.66		
15	64QAM	1	0	17.81	17.89	17.98		
15	64QAM	1	37	17.74	18.06	17.68	19.1	0
15	64QAM	1	74	17.78	17.76	17.85		
15	64QAM	36	0	18.05	17.98	17.79		
15	64QAM	36	20	17.79	17.80	17.72	18.8	0.3
15	64QAM	36	39	17.74	17.97	17.83		
15	64QAM	75	0	17.87	17.93	17.83		
15	256QAM	1	0	15.75	15.72	15.60		
15	256QAM	1	37	15.59	15.95	15.57	17.3	1.8
15	256QAM	1	74	15.85	15.72	15.98		
15	256QAM	36	0	15.77	15.88	15.54		
15	256QAM	36	20	15.51	15.67	15.67	17.3	1.8
15	256QAM	36	39	15.55	15.68	15.65		
15	256QAM	75	0	15.46	15.80	15.60		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	17.85	17.92	17.95	19.1	0
10	QPSK	1	25	17.73	17.77	17.66		
10	QPSK	1	49	17.79	17.71	17.90		
10	QPSK	25	0	17.70	17.87	18.02		
10	QPSK	25	12	17.67	17.78	17.86	19.1	0
10	QPSK	25	25	17.85	17.93	17.70		
10	QPSK	50	0	17.92	18.02	17.82		
10	16QAM	1	0	17.81	17.84	17.83		
10	16QAM	1	25	17.62	17.99	18.05	19.1	0
10	16QAM	1	49	18.01	17.82	17.80		
10	16QAM	25	0	17.98	17.88	17.65		
10	16QAM	25	12	17.85	18.03	17.74	19.1	0
10	16QAM	25	25	17.75	17.95	17.78		
10	16QAM	50	0	17.82	17.74	17.71		
10	64QAM	1	0	17.80	18.03	17.89		
10	64QAM	1	25	18.00	17.96	17.74	19.1	0
10	64QAM	1	49	17.81	17.95	17.96		
10	64QAM	25	0	18.03	17.72	17.90		
10	64QAM	25	12	18.02	17.90	17.73	18.8	0.3
10	64QAM	25	25	17.70	17.90	17.91		
10	64QAM	50	0	18.02	17.67	17.97		
10	256QAM	1	0	15.93	15.58	15.62		
10	256QAM	1	25	15.65	15.72	15.68	17.3	1.8
10	256QAM	1	49	15.87	15.79	15.99		
10	256QAM	25	0	15.90	15.71	15.78		
10	256QAM	25	12	15.67	15.69	15.49	17.3	1.8
10	256QAM	25	25	15.73	15.77	15.73		
10	256QAM	50	0	15.53	15.64	15.47		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	17.82	18.05	17.84	19.1	0
5	QPSK	1	12	17.72	17.99	17.70		
5	QPSK	1	24	17.70	17.78	17.84		
5	QPSK	12	0	17.73	17.85	17.98		
5	QPSK	12	7	17.87	17.82	17.88	19.1	0
5	QPSK	12	13	17.90	18.00	17.83		
5	QPSK	25	0	17.89	17.89	17.82		
5	16QAM	1	0	17.82	17.76	18.04		
5	16QAM	1	12	17.63	18.00	17.92	19.1	0
5	16QAM	1	24	17.84	17.97	17.93		
5	16QAM	12	0	17.91	17.81	17.65		
5	16QAM	12	7	17.89	18.04	17.89	19.1	0
5	16QAM	12	13	17.90	18.01	17.96		
5	16QAM	25	0	17.86	17.77	17.82		
5	64QAM	1	0	17.89	17.85	17.91		
5	64QAM	1	12	17.94	17.78	17.69	19.1	0
5	64QAM	1	24	17.64	17.71	17.83		
5	64QAM	12	0	17.97	17.84	18.06		
5	64QAM	12	7	17.88	17.96	17.74	18.8	0.3
5	64QAM	12	13	17.65	17.75	18.09		
5	64QAM	25	0	18.02	17.83	17.82		
5	256QAM	1	0	15.70	15.69	15.37		
5	256QAM	1	12	15.70	15.85	15.65	17.3	1.8
5	256QAM	1	24	15.95	15.77	15.98		
5	256QAM	12	0	15.77	15.61	15.73		
5	256QAM	12	7	15.75	15.58	15.58	17.3	1.8
5	256QAM	12	13	15.58	15.83	15.60		
5	256QAM	25	0	15.53	15.55	15.51		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	18.00	17.92	18.04	19.1	0
3	QPSK	1	8	17.73	18.03	17.93		
3	QPSK	1	14	17.56	17.83	18.00		
3	16QAM	1	0	17.88	17.91	17.79		
3	16QAM	1	8	17.77	17.95	17.81	19.1	0
3	16QAM	8	0	17.75	18.01	17.86		
3	16QAM	15	0	17.92	17.86	18.03		
3	64QAM	1	0	18.01	17.86	17.97		
3	64QAM	1	8	17.80	18.08	17.78	19.1	0
3	64QAM	1	14	17.79	17.93	17.81		
3	64QAM	8	0	17.85	18.04	17.72		
3	64QAM	8	4	18.00	18.08	18.01	19.1	0
3	64QAM	8	7	17.97	18.01	17.92		
3	64QAM	15	0	17.84	17.89	17.67		
3	64QAM	1	0	17.75	17.87	17.92		
3	64QAM	1	8	18.00	17.83	17.59	19.1	0
3	64QAM	1	14	17.90	17.92	17.76		
3	64QAM	8	0	18.00	17.90	18.02		
3	64QAM	8	4	17.76	17.97	17.82	18.8	0.3
3	64QAM	8	7	17.76	17.77	18.03		
3	64QAM	15	0	18.01	17.76	17.88		
3	256QAM	1	0	15.70	15.74	15.37		
3	256QAM	1	8	15.53	15.97	15.76	17.3	1.8
3	256QAM	1	14	15.88	15.83	15.80		
3	256QAM	8	0	15.59	15.69	15.68		
3	256QAM	8	4	15.63	15.73	15.66	17.3	1.8
3	256QAM	8	7	15.70	15.57	15.64		
3	256QAM	15	0	15.49	15.52	15.61		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	17.88	18.09	18.08	19.1	0
1.4	QPSK	1	3	17.79	17.91	17.68		
1.4	QPSK	1	5	17.82	17.64	17.82		
1.4	QPSK	3	0	17.81	17.91	17.75		
1.4	QPSK	3	1	17.64	18.02	17.81		
1.4	QPSK	3	3	17.85	17.80	17.74		
1.4	QPSK	6	0	17.88	17.90	17.74	19.1	0
1.4	16QAM	1	0	17.85	17.68	18.02	19.1	0
1.4	16QAM	1	3	17.87	17.96	17.96		
1.4	16QAM	1	5	17.72	18.06	17.91		
1.4	16QAM	3	0	18.05	17.82	17.68		
1.4	16QAM	3	1	17.84	17.84	17.75		
1.4	16QAM	3	3	17.91	17.79	17.84		
1.4	16QAM	6	0	18.01	17.98	17.89	19.1	0
1.4	64QAM	1	0	17.74	17.89	17.98	19.1	0
1.4	64QAM	1	3	17.73	17.82	17.66		
1.4	64QAM	1	5	17.76	17.76	17.78		
1.4	64QAM	3	0	17.84	17.90	17.92		
1.4	64QAM	3	1	18.03	17.94	17.87		
1.4	64QAM	3	3	17.78	17.94	18.00		
1.4	64QAM	6	0	17.85	17.84	17.78	18.8	0.3
1.4	256QAM	1	0	15.99	15.53	15.40	17.3	1.8
1.4	256QAM	1	3	15.58	15.80	15.60		
1.4	256QAM	1	5	15.98	15.81	15.82		
1.4	256QAM	3	0	15.65	15.72	15.59		
1.4	256QAM	3	1	15.53	15.80	15.55		
1.4	256QAM	3	3	15.66	15.79	15.52		
1.4	256QAM	6	0	15.59	15.78	15.45	17.3	1.8

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				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	18.75	18.88	18.61	19.8	0
20	QPSK	1	49	18.55	18.49	18.56		
20	QPSK	1	99	18.52	18.46	18.48		
20	QPSK	50	0	18.73	18.85	18.80		
20	QPSK	50	24	18.72	18.75	18.70		
20	QPSK	50	50	18.68	18.76	18.73		
20	QPSK	100	0	18.70	18.82	18.77		
20	16QAM	1	0	18.60	18.64	18.68	19.8	0
20	16QAM	1	49	18.69	18.66	18.42		
20	16QAM	1	99	18.63	18.68	18.47		
20	16QAM	50	0	18.60	18.66	18.66		
20	16QAM	50	24	18.64	18.56	18.52		
20	16QAM	50	50	18.56	18.56	18.52		
20	16QAM	100	0	18.66	18.58	18.57		
20	64QAM	1	0	18.60	18.66	18.66	19.8	0
20	64QAM	1	49	18.67	18.60	18.64		
20	64QAM	1	99	18.65	18.62	18.56		
20	64QAM	50	0	18.29	18.23	18.13		
20	64QAM	50	24	18.21	18.15	18.15	18.8	1
20	64QAM	50	50	18.14	18.15	18.01		
20	64QAM	100	0	18.21	18.07	18.00		
20	256QAM	1	0	15.94	15.89	15.91	17.3	2.5
20	256QAM	1	49	15.81	15.92	15.80		
20	256QAM	1	99	15.95	15.91	15.69		
20	256QAM	50	0	15.86	15.75	15.75		
20	256QAM	50	24	15.76	15.73	15.66	17.3	2.5
20	256QAM	50	50	15.80	15.76	15.72		
20	256QAM	100	0	15.83	15.69	15.72		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	18.56	18.67	18.50	19.8	0
15	QPSK	1	37	18.41	18.35	18.33		
15	QPSK	1	74	18.51	18.23	18.45		
15	QPSK	36	0	18.67	18.55	18.63		
15	QPSK	36	20	18.46	18.52	18.55	19.8	0
15	QPSK	36	39	18.60	18.53	18.50		
15	QPSK	75	0	18.43	18.60	18.54		
15	16QAM	1	0	18.63	18.49	18.61		
15	16QAM	1	37	18.59	18.65	18.36	19.8	0
15	16QAM	1	74	18.65	18.53	18.22		
15	16QAM	36	0	18.46	18.67	18.47		
15	16QAM	36	20	18.64	18.60	18.55	19.8	0
15	16QAM	36	39	18.40	18.58	18.57		
15	16QAM	75	0	18.60	18.63	18.36		
15	64QAM	1	0	18.69	18.64	18.68		
15	64QAM	1	37	18.61	18.68	18.63	19.8	0
15	64QAM	1	74	18.65	18.41	18.51		
15	64QAM	36	0	18.16	17.99	17.95		
15	64QAM	36	20	18.20	17.98	17.99	18.8	1
15	64QAM	36	39	18.06	18.01	17.83		
15	64QAM	75	0	18.23	18.11	17.97		
15	256QAM	1	0	15.74	15.69	15.72	17.3	2.5
15	256QAM	1	37	15.84	15.76	15.65		
15	256QAM	1	74	15.84	15.73	15.73		
15	256QAM	36	0	15.82	15.73	15.66		
15	256QAM	36	20	15.51	15.61	15.64	17.3	2.5
15	256QAM	36	39	15.85	15.64	15.57		
15	256QAM	75	0	15.59	15.64	15.55		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	18.60	18.60	18.49	19.8	0
10	QPSK	1	25	18.43	18.32	18.50		
10	QPSK	1	49	18.39	18.37	18.41		
10	QPSK	25	0	18.61	18.68	18.64		
10	QPSK	25	12	18.47	18.57	18.52	19.8	0
10	QPSK	25	25	18.64	18.60	18.44		
10	QPSK	50	0	18.57	18.61	18.54		
10	16QAM	1	0	18.66	18.66	18.57		
10	16QAM	1	25	18.67	18.64	18.24	19.8	0
10	16QAM	1	49	18.66	18.48	18.23		
10	16QAM	25	0	18.59	18.61	18.56		
10	16QAM	25	12	18.66	18.38	18.52	19.8	0
10	16QAM	25	25	18.60	18.33	18.33		
10	16QAM	50	0	18.61	18.38	18.35		
10	64QAM	1	0	18.65	18.60	18.63		
10	64QAM	1	25	18.53	18.65	18.59	19.8	0
10	64QAM	1	49	18.67	18.58	18.42		
10	64QAM	25	0	18.04	18.01	18.09		
10	64QAM	25	12	18.01	18.19	17.97	18.8	1
10	64QAM	25	25	18.01	18.03	17.80		
10	64QAM	50	0	18.18	17.91	18.00		
10	256QAM	1	0	15.71	15.68	15.91	17.3	2.5
10	256QAM	1	25	15.58	15.73	15.74		
10	256QAM	1	49	15.84	15.80	15.50		
10	256QAM	25	0	15.76	15.67	15.68		
10	256QAM	25	12	15.72	15.63	15.49	17.3	2.5
10	256QAM	25	25	15.76	15.51	15.74		
10	256QAM	50	0	15.81	15.63	15.73		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	18.64	18.69	18.46	19.8	0
5	QPSK	1	12	18.30	18.43	18.56		
5	QPSK	1	24	18.50	18.32	18.42		
5	QPSK	12	0	18.43	18.63	18.68		
5	QPSK	12	7	18.49	18.62	18.42	19.8	0
5	QPSK	12	13	18.62	18.65	18.52		
5	QPSK	25	0	18.64	18.62	18.66		
5	16QAM	1	0	18.62	18.62	18.64		
5	16QAM	1	12	18.61	18.63	18.43	19.8	0
5	16QAM	1	24	18.69	18.51	18.38		
5	16QAM	12	0	18.51	18.69	18.43		
5	16QAM	12	7	18.58	18.35	18.46	19.8	0
5	16QAM	12	13	18.32	18.51	18.47		
5	16QAM	25	0	18.58	18.51	18.53		
5	64QAM	1	0	18.66	18.62	18.53		
5	64QAM	1	12	18.54	18.62	18.65	19.8	0
5	64QAM	1	24	18.64	18.44	18.58		
5	64QAM	12	0	18.23	18.23	17.93		
5	64QAM	12	7	18.12	18.19	18.01	18.8	1
5	64QAM	12	13	17.99	17.90	17.85		
5	64QAM	25	0	18.06	18.11	18.01		
5	256QAM	1	0	15.90	15.84	15.93	17.3	2.5
5	256QAM	1	12	15.76	15.92	15.74		
5	256QAM	1	24	15.84	15.94	15.54		
5	256QAM	12	0	15.71	15.60	15.65		
5	256QAM	12	7	15.56	15.48	15.58	17.3	2.5
5	256QAM	12	13	15.81	15.75	15.75		
5	256QAM	25	0	15.82	15.74	15.52		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	18.62	18.60	18.57	19.8	0
3	QPSK	1	8	18.30	18.49	18.44		
3	QPSK	1	14	18.29	18.19	18.40		
3	QPSK	8	0	18.61	18.64	18.60		
3	QPSK	8	4	18.62	18.64	18.49	19.8	0
3	QPSK	8	7	18.50	18.47	18.46		
3	QPSK	15	0	18.58	18.54	18.64		
3	16QAM	1	0	18.64	18.50	18.68		
3	16QAM	1	8	18.69	18.66	18.20	19.8	0
3	16QAM	1	14	18.57	18.63	18.26		
3	16QAM	8	0	18.52	18.69	18.44		
3	16QAM	8	4	18.51	18.47	18.53	19.8	0
3	16QAM	8	7	18.58	18.53	18.27		
3	16QAM	15	0	18.60	18.33	18.55		
3	64QAM	1	0	18.63	18.67	18.64		
3	64QAM	1	8	18.57	18.68	18.60	19.8	0
3	64QAM	1	14	18.60	18.44	18.48		
3	64QAM	8	0	18.05	18.04	17.98		
3	64QAM	8	4	18.07	18.19	18.07	18.8	1
3	64QAM	8	7	18.15	18.06	17.96		
3	64QAM	15	0	17.98	17.92	17.94		
3	256QAM	1	0	15.69	15.87	15.91	17.3	2.5
3	256QAM	1	8	15.79	15.95	15.79		
3	256QAM	1	14	15.95	15.77	15.54		
3	256QAM	8	0	15.78	15.75	15.52		
3	256QAM	8	4	15.70	15.75	15.69	17.3	2.5
3	256QAM	8	7	15.60	15.74	15.47		
3	256QAM	15	0	15.83	15.52	15.60		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	18.63	18.66	18.58	19.8	0
1.4	QPSK	1	3	18.35	18.43	18.48		
1.4	QPSK	1	5	18.46	18.28	18.45		
1.4	QPSK	3	0	18.46	18.66	18.61		
1.4	QPSK	3	1	18.69	18.65	18.42		
1.4	QPSK	3	3	18.54	18.55	18.45		
1.4	QPSK	6	0	18.55	18.53	18.66	19.8	0
1.4	16QAM	1	0	18.58	18.69	18.62	19.8	0
1.4	16QAM	1	3	18.60	18.63	18.34		
1.4	16QAM	1	5	18.60	18.62	18.26		
1.4	16QAM	3	0	18.66	18.64	18.55		
1.4	16QAM	3	1	18.64	18.55	18.50		
1.4	16QAM	3	3	18.56	18.35	18.46		
1.4	16QAM	6	0	18.60	18.49	18.46	19.8	0
1.4	64QAM	1	0	18.61	18.60	18.65	19.8	0
1.4	64QAM	1	3	18.61	18.62	18.63		
1.4	64QAM	1	5	18.66	18.41	18.44		
1.4	64QAM	3	0	18.64	18.54	18.40		
1.4	64QAM	3	1	18.48	18.55	18.51		
1.4	64QAM	3	3	18.47	18.69	18.49		
1.4	64QAM	6	0	18.18	17.95	17.98	18.8	1
1.4	256QAM	1	0	15.73	15.94	15.76	17.3	2.5
1.4	256QAM	1	3	15.62	15.88	15.74		
1.4	256QAM	1	5	15.84	15.91	15.59		
1.4	256QAM	3	0	15.91	15.70	15.72		
1.4	256QAM	3	1	15.67	15.65	15.71		
1.4	256QAM	3	3	15.58	15.65	15.63		
1.4	256QAM	6	0	15.74	15.63	15.58	17.3	2.5

Band 5 (Celluar Band)
Part 22H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	19.80	19.68	19.66	21	0
10	QPSK	1	25	19.66	19.65	19.64		
10	QPSK	1	49	19.62	19.62	19.56		
10	QPSK	25	0	19.74	19.60	19.62		
10	QPSK	25	12	19.76	19.66	19.65		
10	QPSK	25	25	19.76	19.63	19.60		
10	QPSK	50	0	19.76	19.65	19.63		
10	16QAM	1	0	19.55	19.58	19.58	21	0

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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	15.28	15.47	15.32		
20	QPSK	1	49	15.33	15.44	15.48	16.5	0
20	QPSK	1	99	15.35	15.67	15.73		
20	QPSK	50	0	15.45	15.53	15.56		
20	QPSK	50	24	15.50	15.66	15.67	16.5	0
20	QPSK	50	50	15.48	15.65	15.65		
20	QPSK	100	0	15.41	15.62	15.64		
20	16QAM	1	0	15.50	15.35	15.37		
20	16QAM	1	49	15.36	15.33	15.58	16.5	0
20	16QAM	1	99	15.56	15.60	15.34		
20	16QAM	50	0	15.38	15.58	15.61		
20	16QAM	50	24	15.57	15.60	15.67	16.5	0
20	16QAM	50	50	15.50	15.31	15.32		
20	16QAM	100	0	15.42	15.61	15.67		
20	64QAM	1	0	15.34	15.38	15.33		
20	64QAM	1	49	15.46	15.35	15.32	16.5	0
20	64QAM	1	99	15.43	15.33	15.36		
20	64QAM	50	0	15.46	15.59	15.57		
20	64QAM	50	24	15.51	15.69	15.64	16.5	0
20	64QAM	50	50	15.51	15.68	15.60		
20	64QAM	100	0	15.51	15.50	15.58		
20	256QAM	1	0	15.19	15.48	15.39		
20	256QAM	1	49	15.26	15.47	15.33	16.3	0.2
20	256QAM	1	99	15.35	15.35	15.30		
20	256QAM	50	0	15.13	15.27	15.19		
20	256QAM	50	24	15.29	15.32	15.29	16.3	0.2
20	256QAM	50	50	15.27	15.28	15.22		
20	256QAM	100	0	15.23	15.32	15.19		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	15.13	15.45	15.28		
15	QPSK	1	37	15.33	15.22	15.41	16.5	0
15	QPSK	1	74	15.23	15.65	15.50		
15	QPSK	36	0	15.43	15.28	15.38		
15	QPSK	36	20	15.21	15.39	15.39	16.5	0
15	QPSK	36	39	15.30	15.56	15.46		
15	QPSK	75	0	15.25	15.46	15.51		
15	16QAM	1	0	15.31	15.10	15.41		
15	16QAM	1	37	15.19	15.22	15.48	16.5	0
15	16QAM	1	74	15.33	15.47	15.21		
15	16QAM	36	0	15.21	15.43	15.50		
15	16QAM	36	20	15.61	15.60	15.42	16.5	0
15	16QAM	36	39	15.42	15.09	15.31		
15	16QAM	75	0	15.35	15.56	15.61		
15	64QAM	1	0	15.32	15.40	15.12		
15	64QAM	1	37	15.46	15.29	15.24	16.5	0
15	64QAM	1	74	15.24	15.30	15.18		
15	64QAM	36	0	15.37	15.59	15.38		
15	64QAM	36	20	15.51	15.69	15.61	16.5	0
15	64QAM	36	39	15.36	15.59	15.66		
15	64QAM	75	0	15.34	15.47	15.39		
15	256QAM	1	0	15.00	15.38	15.15		
15	256QAM	1	37	15.08	15.42	15.14	16.3	0.2
15	256QAM	1	74	15.40	15.19	15.15		
15	256QAM	36	0	15.14	15.19	15.14		
15	256QAM	36	20	15.16	15.10	15.23	16.3	0.2
15	256QAM	36	39	15.16	15.14	15.12		
15	256QAM	75	0	15.04	15.30	15.08		
Channel				20820	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	15.19	15.17	15.30		
10	QPSK	1	25	15.12	15.15	15.47	16.5	0
10	QPSK	1	49	15.33	15.50	15.66		
10	QPSK	25	0	15.36	15.32	15.34		
10	QPSK	25	12	15.28	15.64	15.46	16.5	0
10	QPSK	25	25	15.40	15.46	15.36		
10	QPSK	50	0	15.23	15.39	15.38		
10	16QAM	1	0	15.35	15.24	15.31		
10	16QAM	1	25	15.37	15.32	15.36	16.5	0
10	16QAM	1	49	15.48	15.45	15.24		
10	16QAM	25	0	15.22	15.56	15.66		
10	16QAM	25	12	15.34	15.61	15.47	16.5	0
10	16QAM	25	25	15.34	15.09	15.08		
10	16QAM	50	0	15.23	15.63	15.59		
10	64QAM	1	0	15.17	15.37	15.36		
10	64QAM	1	25	15.43	15.26	15.19	16.5	0
10	64QAM	1	49	15.34	15.13	15.36		
10	64QAM	25	0	15.34	15.54	15.37		
10	64QAM	25	12	15.29	15.60	15.44	16.5	0
10	64QAM	25	25	15.46	15.44	15.67		
10	64QAM	50	0	15.47	15.38	15.63		
10	256QAM	1	0	15.24	15.51	15.36		
10	256QAM	1	25	15.10	15.26	15.22	16.3	0.2
10	256QAM	1	49	15.23	15.24	15.10		
10	256QAM	25	0	15.10	15.04	15.19		
10	256QAM	25	12	15.29	15.18	15.32	16.3	0.2
10	256QAM	25	25	15.31	15.08	15.20		
10	256QAM	50	0	15.17	15.19	15.14		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	15.08	15.23	15.24		
5	QPSK	1	12	15.33	15.19	15.33	16.5	0
5	QPSK	1	24	15.19	15.50	15.67		
5	QPSK	12	0	15.33	15.26	15.42		
5	QPSK	12	7	15.36	15.54	15.53	16.5	0
5	QPSK	12	13	15.37	15.52	15.45		
5	QPSK	25	0	15.35	15.36	15.49		
5	16QAM	1	0	15.54	15.20	15.33		
5	16QAM	1	12	15.28	15.10	15.60	16.5	0
5	16QAM	1	24	15.44	15.44	15.09		
5	16QAM	12	0	15.32	15.61	15.62		
5	16QAM	12	7	15.45	15.61	15.60	16.5	0
5	16QAM	12	13	15.27	15.27	15.34		
5	16QAM	25	0	15.34	15.39	15.48		
5	64QAM	1	0	15.26	15.16	15.28		
5	64QAM	1	12	15.37	15.10	15.19	16.5	0
5	64QAM	1	24	15.36	15.13	15.28		
5	64QAM	12	0	15.48	15.36	15.49		
5	64QAM	12	7	15.50	15.66	15.63	16.5	0
5	64QAM	12	13	15.26	15.51	15.66		
5	64QAM	25	0	15.45	15.35	15.61		
5	256QAM	1	0	15.18	15.47	15.41		
5	256QAM	1	12	15.03	15.36	15.29	16.3	0.2
5	256QAM	1	24	15.40	15.39	15.17		
5	256QAM	12	0	15.18	15.06	15.10		
5	256QAM	12	7	15.19	15.34	15.09	16.3	0.2
5	256QAM	12	13	15.26	15.32	15.17		
5	256QAM	25	0	15.14	15.24	15.15		

Band 12 (700MHz Low Band) Part 27F(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	19.48	19.42	19.52		
10	QPSK	1	25	19.45	19.52	19.46	20.7	0
10	QPSK	1	49	19.57	19.75	19.52		
10	QPSK	25	0	19.41	19.41	19.44		
10	QPSK	25	12	19.47	19.49	19.42	20.7	0
10	QPSK	25	25	19.46	19.71	19.45		
10	QPSK	50	0	19.49	19.70	19.42		
10	16QAM	1	0	19.54	19.57	19.40		
10	16QAM	1	25	19.59	19.56	19.57	20.7	0
10	16QAM	1	49	19.54	19.58	19.51		
10	16QAM	25	0	19.53	19.54	19.55		
10	16QAM	25	12	19.52	19.52	19.40	20.7	0
10	16QAM	25	25	19.51	19.54	19.55		
10	16QAM	50	0	19.51	19.51	19.55		
10	64QAM	1	0	19.50	19.56	19.40		
10	64QAM	1	25	19.53	19.51	19.56	20.7	0
10	64QAM	1	49	19.54	19.52	19.53		
10	64QAM	25	0	19.54	19.58	19.59		
10	64QAM	25	12	19.53	19.56	19.57	20.3	0.4
10	64QAM	25	25	19.51	19.50	19.57		
10	64QAM	50	0	19.55	19.57	19.55		
10	256QAM	1	0	17.60	17.47	17.53		
10	256QAM	1	25	17.63	17.58	17.50	18.8	1.9
10	256QAM	1	49	17.64	17.47	17.55		
10	256QAM	25	0	17.51	17.46	17.51		
10	256QAM	25	12	17.53	17.55	17.45	18.8	1.9
10	256QAM	25	25	17.54	17.43	17.44		
10	256QAM	50	0	17.50	17.44	17.43		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	19.43	19.35	19.52		
5	QPSK	1	12	19.27	19.31	19.42	20.7	0
5	QPSK	1	24	19.55	19.53	19.45		
5	QPSK	12	0	19.11	19.21	19.26		
5	QPSK	12	7	19.45	19.43	19.32	20.7	0
5	QPSK	12	13	19.30	19.58	19.28		
5	QPSK	25	0	19.39	19.63	19.16		
5	16QAM	1	0	19.54	19.61	19.26		
5	16QAM	1	12	19.51	19.52	19.32	20.7	0
5	16QAM	1	24	19.54	19.53	19.45		
5	16QAM	12	0	19.51	19.30	19.38		
5	16QAM	12	7	19.32	19.57	19.25	20.7	0
5	16QAM	12	13	19.53	19.29	19.34		
5	16QAM	25	0	19.46	19.51	19.36		
5	64QAM	1	0	19.30	19.50	19.18		
5	64QAM	1	12	19.56	19.44	19.40	20.7	0
5	64QAM	1	24	19.57	19.56	19.36		
5	64QAM	12	0	19.37	19.46	19.40		
5	64QAM	12	7	19.45	19.31	19.50	20.3	0.4
5	64QAM	12	13	19.34	19.41	19.32		
5	64QAM	25	0	19.46	19.55	19.56		
5	256QAM	1	0	17.51	17.50	17.49		
5	256QAM	1	12	17.66	17.58	17.41	18.8	1.9
5	256QAM	1	24	17.57	17.32	17.36		
5	256QAM	12	0	17.37	17.45	17.32		
5	256QAM	12	7	17.57	17.34	17.28	18.8	1.9
5	256QAM	12	13	17.41	17.45	17.42		
5	256QAM	25	0	17.38	17.39	17.44		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	19.41	19.18	19.30		
3	QPSK	1	8	19.28	19.49	19.24	20.7	0
3	QPSK	1	14	19.57	19.50	19.36		
3	QPSK	8	0	19.33	19.13	19.20		
3	QPSK	8	4	19.44	19.32	19.22	20.7	0
3	QPSK	8	7	19.45	19.63	19.45		
3	QPSK	15	0	19.34	19.59	19.26		
3	16QAM	1	0	19.48	19.42	19.17		
3	16QAM	1	8	19.55	19.31	19.59	20.7	0
3	16QAM	1	14	19.47	19.59	19.32		
3	16QAM	8	0	19.51	19.58	19.48		
3	16QAM	8	4	19.55	19.35	19.34	20.7	0
3	16QAM	8	7	19.26	19.34	19.32		
3	16QAM	15	0	19.52	19.51	19.45		
3	64QAM	1	0	19.53	19.58	19.37		
3	64QAM	1	8	19.51	19.44	19.49	20.7	0
3	64QAM	1	14	19.56	19.57	19.44		
3	64QAM	8	0	19.42	19.38	19.45		
3	64QAM	8	4	19.49	19.56	19.35	20.3	0.4
3	64QAM	8	7	19.50	19.39	19.32		
3	64QAM	15	0	19.43	19.59	19.32		
3	256QAM	1	0	17.49	17.48	17.64		
3	256QAM	1	8	17.47	17.49	17.53	18.8	1.9
3	256QAM	1	14	17.67	17.33	17.54		
3	256QAM	8	0	17.36	17.21	17.36		
3	256QAM	8	4	17.52	17.51	17.49	18.8	1.9
3	256QAM	8	7	17.29	17.32	17.40		
3	256QAM	15	0	17.45	17.26	17.38		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	19.38	19.20	19.36		
1.4	QPSK	1	3	19.25	19.46	19.45		
1.4	QPSK	1	5	19.46	19.57	19.23	20.7	0
1.4	QPSK	3	0	19.28	19.37	19.31		
1.4	QPSK	3	1	19.26	19.24	19.37		
1.4	QPSK	3	3	19.30	19.60	19.42		
1.4	QPSK	6	0	19.39	19.66	19.23	20.7	0
1.4	16QAM	1	0	19.51	19.33	19.42		
1.4	16QAM	1	3	19.50	19.49	19.50		
1.4	16QAM	1	5	19.47	19.39	19.49	20.7	0
1.4	16QAM	3	0	19.53	19.30	19.54		
1.4	16QAM	3	1	19.42	19.51	19.35		
1.4	16QAM	3	3	19.26	19.33	19.51		
1.4	16QAM	6	0	19.39	19.31	19.49	20.7	0
1.4	64QAM	1	0	19.30	19.33	19.18		
1.4	64QAM	1	3	19.48	19.43	19.56		
1.4	64QAM	1	5	19.41	19.47	19.34	20.7	0
1.4	64QAM	3	0	19.57	19.47	19.54		
1.4	64QAM	3	1	19.52	19.41	19.41		
1.4	64QAM	3	3	19.39	19.41	19.38		
1.4	64QAM	6	0	19.50	19.62	19.52	20.3	0.4
1.4	256QAM	1	0	17.48	17.32	17.52		
1.4	256QAM	1	3	17.40	17.36	17.27		
1.4	256QAM	1	5	17.60	17.31	17.52	18.8	1.9
1.4	256QAM	3	0	17.46	17.26	17.53		
1.4	256QAM	3	1	17.47	17.50	17.28		
1.4	256QAM	3	3	17.59	17.26	17.33		
1.4	256QAM	6	0	17.47	17.24	17.46	18.8	1.9

Band 13(700MHz Band) Part 27F

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					23230			
Frequency (MHz)					782			
10	QPSK	1	0		19.87			
10	QPSK	1	25		19.89		21	0
10	QPSK	1	49		19.87			
10	QPSK	25	0		19.70			
10	QPSK	25	12		19.71		21	0
10	QPSK	25	25		19.85			
10	QPSK	50	0		19.83			
10	16QAM	1	0		19.73			
10	16QAM	1	25		19.86		21	0
10	16QAM	1	49		19.75			
10	16QAM	25	0		19.85			
10	16QAM	25	12		19.83		21	0
10	16QAM	25	25		19.84			
10	16QAM	50	0		19.84			
10	64QAM	1	0		19.86			
10	64QAM	1	25		19.73		21	0
10	64QAM	1	49		19.76			
10	64QAM	25	0		19.84			
10	64QAM	25	12		19.88		20.3	0.7
10	64QAM	25	25		19.73			
10	64QAM	50	0		19.83			
10	256QAM	1	0		17.48			
10	256QAM	1	25		17.59		18.8	2.2
10	256QAM	1	49		17.47			
10	256QAM	25	0		17.47			
10	256QAM	25	12		17.34		18.8	2.2
10	256QAM	25	25		17.53			
10	256QAM	50	0		17.48			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	19.85	19.63	19.72		
5	QPSK	1	12	19.71	19.65	19.80	21	0
5	QPSK	1	24	19.82	19.67	19.78		
5	QPSK	12	0	19.43	19.59	19.48		
5	QPSK	12	7	19.44	19.49	19.49	21	0
5	QPSK	12	13	19.80	19.85	19.83		
5	QPSK	25	0	19.55	19.60	19.71		
5	16QAM	1	0	19.63	19.52	19.54		
5	16QAM	1	12	19.89	19.62	19.65	21	0
5	16QAM	1	24	19.62	19.67	19.69		
5	16QAM	12	0	19.66	19.67	19.82		
5	16QAM	12	7	19.60	19.58	19.79	21	0
5	16QAM	12	13	19.88	19.68	19.78		
5	16QAM	25	0	19.77	19.88	19.79		
5	64QAM	1	0	19.84	19.81	19.79		
5	64QAM	1	12	19.51	19.67	19.66	21	0
5	64QAM	1	24	19.61	19.61	19.69		
5	64QAM	12	0	19.60	19.64	19.89		
5	64QAM	12	7	19.71	19.89	19.65	20.3	0.7
5	64QAM	12	13	19.77	19.64	19.76		
5	64QAM	25	0	19.75	19.58	19.59		
5	256QAM	1	0	17.25	17.45	17.52		
5	256QAM	1	12	17.60	17.39	17.49	18.8	2.2
5	256QAM	1	24	17.37	17.32	17.51		
5	256QAM	12	0	17.30	17.22	17.43		
5	256QAM	12	7	17.09	17.38	17.27	18.8	2.2
5	256QAM	12	13	17.51	17.39	17.38		
5	256QAM	25	0	17.29	17.31	17.48		

Band 17 (700MHz Band)
Part 27H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	19.19	19.25	19.25	20.7	0
10	QPSK	1	25	19.34	19.30	19.33		
10	QPSK	1	49	19.40	19.29	19.27		
10	QPSK	25	0	19.35	19.35	19.37		
10	QPSK	25	12	19.45	19.42	19.43		
10	QPSK	25	25	19.41	19.45	19.42		
10	QPSK	50	0	19.42	19.37	19.38		
10	16QAM	1	0	19.33	19.37	19.35	20.7	0
10	16QAM	1	25	19.37	19.30	19.31		
10	16QAM	1	49	19.31	19.31	19.32		
10	16QAM	25	0	19.26	19.27	19.29		
10	16QAM	25	12	19.24	19.24	19.25		
10	16QAM	25	25	19.29	19.28	19.27		
10	16QAM	50	0	19.22	19.31	19.28		
10	64QAM	1	0	19.24	19.24	19.27	20.7	0
10	64QAM	1	25	19.32	19.33	19.32		
10	64QAM	1	49	19.26	19.33	19.28		
10	64QAM	25	0	19.23	19.30	19.31	20.3	0.4
10	64QAM	25	12	19.29	19.29	19.29		
10	64QAM	25	25	19.25	19.21	19.23		
10	64QAM	50	0	19.35	19.33	19.32		
10	256QAM	1	0	17.47	17.34	17.50	18.8	1.9
10	256QAM	1	25	17.50	17.45	17.37		
10	256QAM	1	49	17.51	17.34	17.42		
10	256QAM	25	0	17.38	17.33	17.38		
10	256QAM	25	12	17.40	17.42	17.32		
10	256QAM	25	25	17.41	17.30	17.31		
10	256QAM	50	0	17.37	17.31	17.30		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	19.14	19.00	19.06	20.7	0
5	QPSK	1	12	19.06	19.19	19.15		
5	QPSK	1	24	19.30	19.06	19.17		
5	QPSK	12	0	19.27	19.32	19.33		
5	QPSK	12	7	19.28	19.21	19.22		
5	QPSK	12	13	19.24	19.21	19.32		
5	QPSK	25	0	19.29	19.22	19.08		
5	16QAM	1	0	19.37	19.30	19.37	20.7	0
5	16QAM	1	12	19.35	19.33	19.31		
5	16QAM	1	24	19.31	19.33	19.30		
5	16QAM	12	0	19.20	19.08	19.32		
5	16QAM	12	7	19.11	19.01	19.00		
5	16QAM	12	13	19.13	19.16	19.17		
5	16QAM	25	0	19.15	19.18	19.20		
5	64QAM	1	0	19.26	19.03	19.18	20.7	0
5	64QAM	1	12	19.31	19.38	19.21		
5	64QAM	1	24	19.15	19.22	19.29		
5	64QAM	12	0	19.10	19.14	19.34	20.3	0.4
5	64QAM	12	7	19.22	19.31	19.30		
5	64QAM	12	13	19.00	19.11	19.18		
5	64QAM	25	0	19.22	19.37	19.24		
5	256QAM	1	0	17.47	17.13	17.36	18.8	1.9
5	256QAM	1	12	17.34	17.27	17.34		
5	256QAM	1	24	17.27	17.30	17.24		
5	256QAM	12	0	17.37	17.09	17.41		
5	256QAM	12	7	17.38	17.46	17.18		
5	256QAM	12	13	17.29	17.22	17.19		
5	256QAM	25	0	17.21	17.26	17.35		

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	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	18.19	18.30	18.19	19.1	0
20	QPSK	1	49	18.21	18.05	18.21		
20	QPSK	1	99	18.18	18.11	18.07		
20	QPSK	50	0	18.13	18.21	18.17		
20	QPSK	50	24	18.24	18.26	18.23		
20	QPSK	50	50	18.19	18.23	18.13		
20	QPSK	100	0	18.24	18.25	18.19		
20	16QAM	1	0	18.13	18.20	18.15	19.1	0
20	16QAM	1	49	18.13	18.17	18.10		
20	16QAM	1	99	18.29	18.13	18.27		
20	16QAM	50	0	18.13	18.22	18.18		
20	16QAM	50	24	18.27	18.21	18.27		
20	16QAM	50	50	18.21	18.21	18.26		
20	16QAM	100	0	18.29	18.19	18.08		
20	64QAM	1	0	18.17	18.12	18.29	19.1	0
20	64QAM	1	49	18.14	18.10	18.12		
20	64QAM	1	99	18.16	18.16	18.18		
20	64QAM	50	0	18.17	18.25	18.23	18.8	0.3
20	64QAM	50	24	18.12	18.29	18.21		
20	64QAM	50	50	18.26	18.12	18.23		
20	64QAM	100	0	18.25	18.19	18.20		
20	256QAM	1	0	15.89	15.88	15.90	17.3	1.8
20	256QAM	1	49	15.93	15.93	15.87		
20	256QAM	1	99	15.87	15.91	15.78		
20	256QAM	50	0	15.82	15.77	15.78	17.3	1.8
20	256QAM	50	24	15.78	15.93	15.88		
20	256QAM	50	50	15.78	15.81	15.71		
20	256QAM	100	0	15.78	15.72	15.77		
Channel				26115	26340	26613	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	17.91	18.26	18.16	19.1	0
15	QPSK	1	37	18.04	17.75	18.19		
15	QPSK	1	74	18.10	18.03	17.88		
15	QPSK	36	0	17.98	18.20	18.12	19.1	0
15	QPSK	36	20	18.03	18.19	18.04		
15	QPSK	36	39	18.07	18.23	17.83		
15	QPSK	75	0	18.05	18.23	18.08		
15	16QAM	1	0	17.89	18.22	17.93	19.1	0
15	16QAM	1	37	18.14	18.08	18.00		
15	16QAM	1	74	18.24	17.92	18.24		
15	16QAM	36	0	17.95	18.15	17.96	19.1	0
15	16QAM	36	20	18.17	17.98	18.13		
15	16QAM	36	39	18.09	18.07	18.10		
15	16QAM	75	0	18.18	18.00	18.11		
15	64QAM	1	0	17.94	17.95	18.17	19.1	0
15	64QAM	1	37	18.01	17.85	17.97		
15	64QAM	1	74	17.99	17.91	18.22		
15	64QAM	36	0	18.08	18.13	17.99	18.8	0.3
15	64QAM	36	20	18.09	18.10	18.07		
15	64QAM	36	39	18.07	17.92	18.16		
15	64QAM	75	0	18.14	18.19	18.17		
15	256QAM	1	0	15.77	15.90	15.83	17.3	1.8
15	256QAM	1	37	15.81	15.69	15.73		
15	256QAM	1	74	15.79	15.73	15.82		
15	256QAM	36	0	15.80	15.71	15.67	17.3	1.8
15	256QAM	36	20	15.80	15.90	15.45		
15	256QAM	36	39	15.75	15.78	15.74		
15	256QAM	75	0	15.75	15.58	15.56		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	18.01	18.18	18.04	19.1	0
10	QPSK	1	25	18.12	17.85	18.09		
10	QPSK	1	49	17.99	17.93	18.04		
10	QPSK	25	0	17.89	18.18	18.10	19.1	0
10	QPSK	25	12	17.97	18.27	18.15		
10	QPSK	25	25	18.15	18.10	18.12		
10	QPSK	50	0	17.97	18.20	18.18		
10	16QAM	1	0	18.05	18.20	18.20	19.1	0
10	16QAM	1	25	18.00	18.19	17.88		
10	16QAM	1	49	18.23	18.17	18.11		
10	16QAM	25	0	18.10	18.17	18.14	19.1	0
10	16QAM	25	12	18.22	18.24	18.13		
10	16QAM	25	25	17.98	18.11	18.04		
10	16QAM	50	0	18.17	18.18	18.00		
10	64QAM	1	0	18.03	18.16	18.19	19.1	0
10	64QAM	1	25	18.05	18.05	18.15		
10	64QAM	1	49	18.10	17.93	18.04		
10	64QAM	25	0	18.08	18.06	18.08	18.8	0.3
10	64QAM	25	12	18.06	18.17	18.20		
10	64QAM	25	25	18.21	18.01	18.19		
10	64QAM	50	0	18.22	18.20	18.14		
10	256QAM	1	0	15.84	15.65	15.84	17.3	1.8
10	256QAM	1	25	15.88	15.90	15.88		
10	256QAM	1	49	15.81	15.82	15.82		
10	256QAM	25	0	15.64	15.82	15.83	17.3	1.8
10	256QAM	25	12	15.76	15.76	15.56		
10	256QAM	25	25	15.56	15.56	15.64		
10	256QAM	50	0	15.74	15.76	15.66		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	17.89	18.15	18.01	19.1	0
5	QPSK	1	12	18.05	17.85	17.99		
5	QPSK	1	24	18.08	18.08	18.02		
5	QPSK	12	0	18.02	18.07	17.97	19.1	0
5	QPSK	12	7	18.12	18.23	18.01		
5	QPSK	12	13	18.17	18.13	17.97		
5	QPSK	25	0	18.18	18.05	18.15		
5	16QAM	1	0	18.17	18.03	17.94	19.1	0
5	16QAM	1	12	18.12	18.14	18.00		
5	16QAM	1	24	18.06	18.10	18.11		
5	16QAM	12	0	17.88	18.01	18.06	19.1	0
5	16QAM	12	7	18.04	18.14	18.04		
5	16QAM	12	13	18.23	18.20	18.04		
5	16QAM	25	0	18.08	17.96	18.05		
5	64QAM	1	0	17.96	18.04	18.22	19.1	0
5	64QAM	1	12	18.03	17.95	17.89		
5	64QAM	1	24	17.99	18.17	18.02		
5	64QAM	12	0	18.19	18.09	18.27	18.8	0.3
5	64QAM	12	7	17.94	18.13	18.09		
5	64QAM	12	13	18.24	18.11	18.01		
5	64QAM	25	0	18.19	18.01	17.96		
5	256QAM	1	0	15.65	15.84	15.71	17.3	1.8
5	256QAM	1	12	15.92	15.95	15.73		
5	256QAM	1	24	15.74	15.92	15.65		
5	256QAM	12	0	15.87	15.64	15.65	17.3	1.8
5	256QAM	12	7	15.65	15.77	15.63		
5	256QAM	12	13	15.70	15.76	15.72		
5	256QAM	25	0	15.71	15.61	15.52		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	17.92	18.20	18.19	19.1	0
3	QPSK	1	8	18.05	18.01	18.10		
3	QPSK	1	14	17.95	17.81	17.94		
3	QPSK	8	0	17.98	17.91	18.00	19.1	0
3	QPSK	8	4	18.07	18.01	17.99		
3	QPSK	8	7	17.97	18.20	18.01		
3	QPSK	15	0	18.09	18.20	18.02		
3	16QAM	1	0	18.16	18.20	18.20	19.1	0
3	16QAM	1	8	17.91	18.06	17.99		
3	16QAM	1	14	18.21	18.08	18.16		
3	16QAM	8	0	17.99	18.16	18.20	19.1	0
3	16QAM	8	4	18.20	18.18	18.17		
3	16QAM	8	7	17.96	18.11	18.22		
3	16QAM	15	0	18.18	17.95	17.90		
3	64QAM	1	0	17.94	18.12	18.21	19.1	0
3	64QAM	1	8	18.07	17.85	18.07		
3	64QAM	1	14	18.17	18.18	18.02		
3	64QAM	8	0	17.94	18.02	18.06	18.8	0.3
3	64QAM	8	4	18.06	18.27	18.12		
3	64QAM	8	7	18.29	17.93	18.23		
3	64QAM	15	0	18.17	18.03	18.22	17.3	1.8
3	256QAM	1	0	15.71	15.81	15.80		
3	256QAM	1	8	15.72	15.68	15.78		
3	256QAM	1	14	15.78	15.83	15.68		
3	256QAM	8	0	15.72	15.74	15.68	17.3	1.8
3	256QAM	8	4	15.68	15.95	15.57		
3	256QAM	8	7	15.71	15.79	15.58		
3	256QAM	15	0	15.82	15.67	15.80		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	18.11	18.13	18.17	19.1	0
1.4	QPSK	1	3	18.15	17.96	18.11		
1.4	QPSK	1	5	18.13	17.83	18.05		
1.4	QPSK	3	0	18.10	18.10	18.03		
1.4	QPSK	3	1	18.11	18.27	18.05		
1.4	QPSK	3	3	18.06	18.19	17.99		
1.4	QPSK	6	0	18.13	18.02	18.00	19.1	0
1.4	16QAM	1	0	18.00	18.03	18.09	19.1	0
1.4	16QAM	1	3	18.15	18.10	17.97		
1.4	16QAM	1	5	18.21	18.08	18.12		
1.4	16QAM	3	0	17.97	18.12	18.01		
1.4	16QAM	3	1	18.05	18.18	18.13		
1.4	16QAM	3	3	18.02	18.14	18.27		
1.4	16QAM	6	0	18.26	18.21	18.01	19.1	0
1.4	64QAM	1	0	18.13	18.05	18.27	19.1	0
1.4	64QAM	1	3	18.09	18.04	18.00		
1.4	64QAM	1	5	17.98	17.95	18.16		
1.4	64QAM	3	0	18.01	18.15	18.20		
1.4	64QAM	3	1	18.09	18.21	18.26		
1.4	64QAM	3	3	18.25	18.02	18.18		
1.4	64QAM	6	0	18.18	18.16	18.04	18.8	0.3
1.4	256QAM	1	0	15.69	15.74	15.90	17.3	1.8
1.4	256QAM	1	3	15.68	15.95	15.79		
1.4	256QAM	1	5	15.65	15.81	15.57		
1.4	256QAM	3	0	15.72	15.58	15.83		
1.4	256QAM	3	1	15.63	15.74	15.62		
1.4	256QAM	3	3	15.76	15.86	15.53		
1.4	256QAM	6	0	15.55	15.69	15.74	17.3	1.8

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)				821.5	831.5	841.5		
15	QPSK	1	0	19.80	19.80	19.90	21	0
15	QPSK	1	37	19.75	19.75	19.74		
15	QPSK	1	74	19.77	19.76	19.69		
15	QPSK	36	0	19.74	19.75	19.72		
15	QPSK	36	20	19.78	19.82	19.85		
15	QPSK	36	39	19.73	19.70	19.71		
15	QPSK	75	0	19.77	19.70	19.79		
15	16QAM	1	0	19.81	19.81	19.85	21	0
15	16QAM	1	37	19.85	19.80	19.80		
15	16QAM	1	74	19.86	19.83	19.76		
15	16QAM	36	0	19.72	19.70	19.72	21	0
15	16QAM	36	20	19.75	19.75	19.85		
15	16QAM	36	39	19.72	19.70	19.70		
15	16QAM	75	0	19.79	19.70	19.75		
15	64QAM	1	0	19.79	19.76	19.80	21	0
15	64QAM	1	37	19.70	19.72	19.81		
15	64QAM	1	74	19.83	19.78	19.77		
15	64QAM	36	0	19.77	19.75	19.79	20.3	0.7
15	64QAM	36	20	19.79	19.86	19.74		
15	64QAM	36	39	19.75	19.70	19.77		
15	64QAM	75	0	19.79	19.85	19.71		
15	256QAM	1	0	17.52	17.57	17.51	18.8	2.2
15	256QAM	1	37	17.45	17.54	17.45		
15	256QAM	1	74	17.54	17.45	17.34		
15	256QAM	36	0	17.42	17.38	17.39	18.8	2.2
15	256QAM	36	20	17.43	17.37	17.30		
15	256QAM	36	39	17.38	17.38	17.26		
15	256QAM	75	0	17.41	17.25	17.26		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	19.60	19.61	19.78	21	0
10	QPSK	1	25	19.73	19.45	19.62		
10	QPSK	1	49	19.65	19.47	19.68		
10	QPSK	25	0	19.53	19.45	19.56	21	0
10	QPSK	25	12	19.59	19.78	19.73		
10	QPSK	25	25	19.68	19.65	19.58		
10	QPSK	50	0	19.73	19.67	19.77		
10	16QAM	1	0	19.64	19.59	19.71	21	0
10	16QAM	1	25	19.70	19.79	19.73		
10	16QAM	1	49	19.74	19.65	19.63		
10	16QAM	25	0	19.73	19.68	19.70	21	0
10	16QAM	25	12	19.65	19.79	19.89		
10	16QAM	25	25	19.64	19.46	19.72		
10	16QAM	50	0	19.56	19.74	19.51		
10	64QAM	1	0	19.74	19.72	19.60	21	0
10	64QAM	1	25	19.59	19.61	19.58		
10	64QAM	1	49	19.73	19.80	19.68		
10	64QAM	25	0	19.76	19.51	19.64	20.3	0.7
10	64QAM	25	12	19.54	19.84	19.62		
10	64QAM	25	25	19.67	19.61	19.78		
10	64QAM	50	0	19.71	19.62	19.64		
10	256QAM	1	0	17.48	17.58	17.54	18.8	2.2
10	256QAM	1	25	17.49	17.46	17.50		
10	256QAM	1	49	17.45	17.38	17.30		
10	256QAM	25	0	17.32	17.35	17.23	18.8	2.2
10	256QAM	25	12	17.22	17.26	17.33		
10	256QAM	25	25	17.41	17.21	17.30		
10	256QAM	50	0	17.27	17.29	17.12		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	19.50	19.56	19.61	21	0
5	QPSK	1	12	19.73	19.73	19.47		
5	QPSK	1	24	19.63	19.46	19.50		
5	QPSK	12	0	19.60	19.72	19.62	21	0
5	QPSK	12	7	19.76	19.52	19.68		
5	QPSK	12	13	19.58	19.51	19.63		
5	QPSK	25	0	19.60	19.51	19.66		
5	16QAM	1	0	19.71	19.63	19.88	21	0
5	16QAM	1	12	19.81	19.78	19.83		
5	16QAM	1	24	19.85	19.77	19.54		
5	16QAM	12	0	19.55	19.52	19.72	21	0
5	16QAM	12	7	19.67	19.68	19.65		
5	16QAM	12	13	19.58	19.45	19.66		
5	16QAM	25	0	19.60	19.55	19.57		
5	64QAM	1	0	19.59	19.74	19.72	21	0
5	64QAM	1	12	19.45	19.76	19.56		
5	64QAM	1	24	19.61	19.60	19.82		
5	64QAM	12	0	19.55	19.69	19.66	20.3	0.7
5	64QAM	12	7	19.56	19.86	19.64		
5	64QAM	12	13	19.71	19.45	19.77		
5	64QAM	25	0	19.55	19.65	19.70		
5	256QAM	1	0	17.46	17.47	17.44	18.8	2.2
5	256QAM	1	12	17.43	17.57	17.20		
5	256QAM	1	24	17.45	17.45	17.36		
5	256QAM	12	0	17.47	17.36	17.14	18.8	2.2
5	256QAM	12	7	17.48	17.37	17.23		
5	256QAM	12	13	17.36	17.25	17.21		
5	256QAM	25	0	17.39	17.26	17.12		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	19.63	19.75	19.81	21	0
3	QPSK	1	8	19.53	19.62	19.70		
3	QPSK	1	14	19.51	19.62	19.52		
3	QPSK	8	0	19.67	19.56	19.53	21	0
3	QPSK	8	4	19.77	19.78	19.75		
3	QPSK	8	7	19.69	19.50	19.44		
3	QPSK	15	0	19.47	19.67	19.60		
3	16QAM	1	0	19.58	19.68	19.69	21	0
3	16QAM	1	8	19.73	19.56	19.78		
3	16QAM	1	14	19.72	19.81	19.57		
3	16QAM	8	0	19.61	19.55	19.64	21	0
3	16QAM	8	4	19.70	19.68	19.81		
3	16QAM	8	7	19.60	19.68	19.59		
3	16QAM	15	0	19.78	19.48	19.68		
3	64QAM	1	0	19.68	19.80	19.70	21	0
3	64QAM	1	8	19.72	19.75	19.58		
3	64QAM	1	14	19.58	19.67	19.56		
3	64QAM	8	0	19.60	19.69	19.59	20.3	0.7
3	64QAM	8	4	19.83	19.78	19.72		
3	64QAM	8	7	19.57	19.67	19.81		
3	64QAM	15	0	19.66	19.71	19.52		
3	256QAM	1	0	17.37	17.52	17.51	18.8	2.2
3	256QAM	1	8	17.40	17.53	17.35		
3	256QAM	1	14	17.50	17.21	17.21		
3	256QAM	8	0	17.25	17.28	17.42	18.8	2.2
3	256QAM	8	4	17.43	17.23	17.29		
3	256QAM	8	7	17.38	17.14	17.21		
3	256QAM	15	0	17.35	17.07	17.25		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	19.62	19.68	19.63	21	0
1.4	QPSK	1	3	19.65	19.52	19.66		
1.4	QPSK	1	5	19.68	19.57	19.50		
1.4	QPSK	3	0	19.52	19.64	19.42		
1.4	QPSK	3	1	19.65	19.55	19.76		
1.4	QPSK	3	3	19.69	19.52	19.58		
1.4	QPSK	6	0	19.70	19.51	19.76	21	0
1.4	16QAM	1	0	19.61	19.84	19.63	21	0
1.4	16QAM	1	3	19.81	19.74	19.67		
1.4	16QAM	1	5	19.69	19.70	19.59		
1.4	16QAM	3	0	19.54	19.60	19.57		
1.4	16

Band 30

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					27710			
Frequency (MHz)					2310			
10	QPSK	1	0		18.09			
10	QPSK	1	25		17.75		19	0
10	QPSK	1	49		17.81			
10	QPSK	25	0		17.93			
10	QPSK	25	12		18.06		19	0
10	QPSK	25	25		17.92			
10	QPSK	50	0		18.04			
10	16QAM	1	0		17.99			
10	16QAM	1	25		17.96		19	0
10	16QAM	1	49		17.93			
10	16QAM	25	0		17.85			
10	16QAM	25	12		17.98		19	0
10	16QAM	25	25		17.89			
10	16QAM	50	0		17.80			
10	64QAM	1	0		17.89			
10	64QAM	1	25		17.94		19	0
10	64QAM	1	49		17.91			
10	64QAM	25	0		17.47			
10	64QAM	25	12		17.37		18.5	0.5
10	64QAM	25	25		17.34			
10	64QAM	50	0		17.33			
10	256QAM	1	0		15.58			
10	256QAM	1	25		15.73		17.3	1.7
10	256QAM	1	49		15.64			
10	256QAM	25	0		15.48			
10	256QAM	25	12		15.63		17.3	1.7
10	256QAM	25	25		15.56			
10	256QAM	50	0		15.49			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	17.82	17.91	17.92		
5	QPSK	1	12	17.76	17.50	17.58	19	0
5	QPSK	1	24	17.64	17.68	17.71		
5	QPSK	12	0	17.76	17.93	17.73		
5	QPSK	12	7	18.04	17.83	18.02	19	0
5	QPSK	12	13	17.68	17.79	17.70		
5	QPSK	25	0	17.99	17.80	17.85		
5	16QAM	1	0	18.03	17.86	17.80		
5	16QAM	1	12	17.95	17.76	17.95	19	0
5	16QAM	1	24	17.95	17.75	17.73		
5	16QAM	12	0	17.70	17.78	17.77		
5	16QAM	12	7	17.81	18.00	17.80	19	0
5	16QAM	12	13	17.71	17.74	17.68		
5	16QAM	25	0	17.70	17.58	17.73		
5	64QAM	1	0	17.90	17.91	17.92		
5	64QAM	1	12	17.95	17.80	17.86	19	0
5	64QAM	1	24	17.78	17.87	17.87		
5	64QAM	12	0	17.27	17.33	17.51		
5	64QAM	12	7	17.21	17.26	17.23	18.5	0.5
5	64QAM	12	13	17.09	17.15	17.12		
5	64QAM	25	0	17.29	17.26	17.21		
5	256QAM	1	0	15.43	15.48	15.47		
5	256QAM	1	12	15.77	15.76	15.54	17.3	1.7
5	256QAM	1	24	15.53	15.60	15.47		
5	256QAM	12	0	15.50	15.40	15.44		
5	256QAM	12	7	15.40	15.50	15.49	17.3	1.7
5	256QAM	12	13	15.43	15.59	15.55		
5	256QAM	25	0	15.35	15.45	15.36		

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)				1720	1745	1770		
20	QPSK	1	0	18.76	19.01	18.98		
20	QPSK	1	49	18.92	18.87	18.76	19.8	0
20	QPSK	1	99	18.77	18.66	18.76		
20	QPSK	50	0	18.92	18.97	18.95		
20	QPSK	50	24	18.89	18.94	18.95	19.8	0
20	QPSK	50	50	18.91	18.92	18.88		
20	QPSK	100	0	18.89	18.91	18.81		
20	16QAM	1	0	18.86	18.81	18.88		
20	16QAM	1	49	18.82	18.88	18.87	19.8	0
20	16QAM	1	99	18.81	18.86	18.88		
20	16QAM	50	0	18.80	18.88	18.83		
20	16QAM	50	24	18.87	18.82	18.86	19.8	0
20	16QAM	50	50	18.86	18.84	18.84		
20	16QAM	100	0	18.88	18.83	18.83		
20	64QAM	1	0	18.81	18.82	18.82		
20	64QAM	1	49	18.81	18.88	18.86	19.8	0
20	64QAM	1	99	18.83	18.89	18.88		
20	64QAM	50	0	17.89	17.98	17.97		
20	64QAM	50	24	17.95	17.99	17.84	18.8	1
20	64QAM	50	50	17.88	17.93	17.87		
20	64QAM	100	0	17.88	17.93	17.82		
20	256QAM	1	0	15.91	15.86	15.89		
20	256QAM	1	49	15.86	15.92	15.91	17.3	2.5
20	256QAM	1	99	15.85	15.89	15.92		
20	256QAM	50	0	15.73	15.69	15.70		
20	256QAM	50	24	15.79	15.71	15.76	17.3	2.5
20	256QAM	50	50	15.75	15.74	15.83		
20	256QAM	100	0	15.76	15.68	15.82		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	18.75	18.85	18.77		
15	QPSK	1	37	18.69	18.75	18.46	19.8	0
15	QPSK	1	74	18.50	18.41	18.64		
15	QPSK	36	0	18.81	18.84	18.67		
15	QPSK	36	20	18.75	18.88	18.83	19.8	0
15	QPSK	36	39	18.69	18.65	18.68		
15	QPSK	75	0	18.74	18.84	18.81		
15	16QAM	1	0	18.86	18.75	18.70		
15	16QAM	1	37	18.68	18.81	18.78	19.8	0
15	16QAM	1	74	18.84	18.87	18.87		
15	16QAM	36	0	18.82	18.63	18.79		
15	16QAM	36	20	18.85	18.77	18.75	19.8	0
15	16QAM	36	39	18.66	18.82	18.82		
15	16QAM	75	0	18.81	18.84	18.81		
15	64QAM	1	0	18.81	18.62	18.88		
15	64QAM	1	37	18.69	18.87	18.85	19.8	0
15	64QAM	1	74	18.80	18.71	18.77		
15	64QAM	36	0	17.81	17.87	17.74		
15	64QAM	36	20	17.74	17.74	17.71	18.8	1
15	64QAM	36	39	17.87	17.89	17.90		
15	64QAM	75	0	17.76	17.95	17.83		
15	256QAM	1	0	15.84	15.68	15.71		
15	256QAM	1	37	15.72	15.71	15.92	17.3	2.5
15	256QAM	1	74	15.76	15.69	15.78		
15	256QAM	36	0	15.54	15.63	15.69		
15	256QAM	36	20	15.77	15.52	15.60	17.3	2.5
15	256QAM	36	39	15.67	15.51	15.80		
15	256QAM	75	0	15.68	15.71	15.58		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	18.47	18.83	18.82		
10	QPSK	1	25	18.75	18.69	18.57	19.8	0
10	QPSK	1	49	18.71	18.64	18.74		
10	QPSK	25	0	18.85	18.67	18.78		
10	QPSK	25	12	18.80	18.83	18.81	19.8	0
10	QPSK	25	25	18.83	18.81	18.70		
10	QPSK	50	0	18.72	18.86	18.77		
10	16QAM	1	0	18.87	18.62	18.79		
10	16QAM	1	25	18.82	18.79	18.73	19.8	0
10	16QAM	1	49	18.59	18.72	18.81		
10	16QAM	25	0	18.67	18.69	18.64		
10	16QAM	25	12	18.80	18.85	18.81	19.8	0
10	16QAM	25	25	18.66	18.81	18.86		
10	16QAM	50	0	18.82	18.82	18.69		
10	64QAM	1	0	18.60	18.60	18.72		
10	64QAM	1	25	18.86	18.82	18.80	19.8	0
10	64QAM	1	49	18.86	18.83	18.86		
10	64QAM	25	0	17.65	17.86	17.81		
10	64QAM	25	12	17.78	17.89	17.86	18.8	1
10	64QAM	25	25	17.70	17.79	17.69		
10	64QAM	50	0	17.65	17.78	17.73		
10	256QAM	1	0	15.66	15.65	15.64		
10	256QAM	1	25	15.69	15.88	15.75	17.3	2.5
10	256QAM	1	49	15.79	15.64	15.77		
10	256QAM	25	0	15.51	15.70	15.63		
10	256QAM	25	12	15.59	15.58	15.52	17.3	2.5
10	256QAM	25	25	15.60	15.65	15.83		
10	256QAM	50	0	15.59	15.47	15.69		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	18.51	18.85	18.77		
5	QPSK	1	12	18.70	18.84	18.51	19.8	0
5	QPSK	1	24	18.65	18.36	18.65		
5	QPSK	12	0	18.72	18.85	18.74		
5	QPSK	12	7	18.80	18.85	18.86	19.8	0
5	QPSK	12	13	18.77	18.80	18.81		
5	QPSK	25	0	18.63	18.80	18.64		
5	16QAM	1	0	18.85	18.69	18.84		
5	16QAM	1	12	18.71	18.66	18.81	19.8	0
5	16QAM	1	24	18.65	18.89	18.87		
5	16QAM	12	0	18.82	18.80	18.68		
5	16QAM	12	7	18.76	18.82	18.80	19.8	0
5	16QAM	12	13	18.86	18.83	18.84		
5	16QAM	25	0	18.78	18.78	18.82		
5	64QAM	1	0	18.78	18.80	18.79		
5	64QAM	1	12	18.77	18.78	18.81	19.8	0
5	64QAM	1	24	18.75	18.78	18.73		
5	64QAM	12	0	17.81	17.97	17.87		
5	64QAM	12	7	17.77	17.89	17.81	18.8	1
5	64QAM	12	13	17.67	17.98	17.76		
5	64QAM	25	0	17.63	17.82	17.83		
5	256QAM	1	0	15.72	15.83	15.90		
5	256QAM	1	12	15.80	15.95	15.78	17.3	2.5
5	256QAM	1	24	15.70	15.73	15.79		
5	256QAM	12	0	15.52	15.56	15.54		
5	256QAM	12	7	15.71	15.57	15.80	17.3	2.5
5	256QAM	12	13	15.76	15.54	15.69		
5	256QAM	25	0	15.78	15.53	15.70		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	18.71	18.80	18.80		
3	QPSK	1	8	18.88	18.68	18.58	19.8	0
3	QPSK	1	14	18.58	18.58	18.60		
3	QPSK	8	0	18.80	18.87	18.81		
3	QPSK	8	4	18.78	18.75	18.70	19.8	0
3	QPSK	8	7	18.66	18.86	18.85		
3	QPSK	15	0	18.87	18.62	18.54		
3	16QAM	1	0	18.74	18.72	18.87		
3	16QAM	1	8	18.79	18.80	18.68	19.8	0
3	16QAM	1	14	18.56	18.89	18.73		
3	16QAM	8	0	18.65	18.70	18.72		
3	16QAM	8	4	18.85	18.85	18.79	19.8	0
3	16QAM	8	7	18.86	18.72	18.74		
3	16QAM	15	0	18.83	18.80	18.79		
3	64QAM	1	0	18.82	18.87	18.87		
3	64QAM	1	8	18.81	18.74	18.67	19.8	0
3	64QAM	1	14	18.85	18.75	18.77		
3	64QAM	8	0	17.66	17.86	17.76		
3	64QAM	8	4	17.94	17.93	17.79	18.8	1
3	64QAM	8	7	17.73	17.73	17.82		
3	64QAM	15	0	17.70	17.75	17.58		
3	256QAM	1	0	15.75	15.63	15.74		
3	256QAM	1	8	15.64	15.78	15.71	17.3	2.5
3	256QAM	1	14	15.65	15.77	15.95		
3	256QAM	8	0	15.53	15.56	15.74		
3	256QAM	8	4	15.61	15.65	15.78	17.3	2.5
3	256QAM	8	7	15.63	15.58	15.60		
3	256QAM	15	0	15.56	15.54	15.80		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	18.58	18.73	18.86		
1.4	QPSK	1	3	18.72	18.64	18.67		
1.4	QPSK	1	5	18.72	18.49	18.68	19.8	0
1.4	QPSK	3	0	18.76	18.83	18.81		
1.4	QPSK	3	1	18.59	18.67	18.68		
1.4	QPSK	3	3	18.67	18.63	18.85		
1.4	QPSK	6	0	18.84	18.79	18.55	19.8	0
1.4	16QAM	1	0	18.64	18.73	18.79		
1.4	16QAM	1	3	18.74	18.83	18.76		
1.4	16QAM	1	5	18.59	18.76	18.84	19.8	0
1.4	16QAM	3	0	18.84	18.64	18.79		
1.4	16QAM	3	1	18.85	18.89	18.79		
1.4	16QAM	3	3	18.76	18.70	18.70		
1.4	16QAM	6	0	18.82	18.88	18.70	19.8	0
1.4	64QAM	1	0	18.71	18.77	18.67		
1.4	64QAM	1	3	18.77	18.86	18.89		
1.4	64QAM	1	5	18.72	18.82	18.66	19.8	0
1.4	64QAM	3	0	18.72	18.86	18.81		
1.4	64QAM	3	1	18.74	18.84	18.69		
1.4	64QAM	3	3	18.67	18.70	18.68		
1.4	64QAM	6	0	17.90	17.86	17.74	18.8	1
1.4	256QAM	1	0	15.69	15.65	15.92		
1.4	256QAM	1	3	15.86	15.96	15.72		
1.4	256QAM	1	5	15.76	15.87	15.67	17.3	2.5
1.4	256QAM	3	0	15.72	15.47	15.68		
1.4	256QAM	3	1	15.75	15.56	15.66		
1.4	256QAM	3	3	15.78	15.76	15.84		
1.4	256QAM	6	0	15.52	15.46	15.81	17.3	2.5

Band 71

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	683	688		
20	QPSK	1	0	21.05	21.09	21.01		
20	QPSK	1	49	20.90	20.82	20.74	22	0
20	QPSK	1	99	20.99	20.92	20.87		
20	QPSK	50	0	20.93	20.95	20.82		
20	QPSK	50	24	20.92	21.05	21.01	22	0
20	QPSK	50	50	20.99	21.03	20.94		
20	QPSK	100	0	21.01	21.04	21.00		
20	16QAM	1	0	20.97	20.92	21.05		
20	16QAM	1	49	20.99	21.03	20.98	22	0
20	16QAM	1	99	20.91	21.05	20.96		
20	16QAM	50	0	21.04	21.01	21.06		
20	16QAM	50	24	20.99	20.96	20.92	22	0
20	16QAM	50	50	20.96	20.93	20.87		
20	16QAM	100	0	20.92	20.98	20.84		
20	64QAM	1	0	20.83	20.93	20.92		
20	64QAM	1	49	20.82	20.84	20.76	22	0
20	64QAM	1	99	20.78	20.80	20.71		
20	64QAM	50	0	19.55	19.63	19.60		
20	64QAM	50	24	19.41	19.48	19.53	20.3	1.7
20	64QAM	50	50	19.55	19.46	19.38		
20	64QAM	100	0	19.58	19.56	19.54		
20	256QAM	1	0	17.54	17.49	17.56		
20	256QAM	1	49	17.47	17.55	17.57	18.8	3.2
20	256QAM	1	99	17.52	17.50	17.46		
20	256QAM	50	0	17.45	17.48	17.43		
20	256QAM	50	24	17.42	17.42	17.44	18.8	3.2
20	256QAM	50	50	17.42	17.41	17.33		
20	256QAM	100	0	17.47	17.44	17.53		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	20.76	20.79	20.88		
15	QPSK	1	37	20.79	20.74	20.66	22	0
15	QPSK	1	74	20.83	20.78	20.87		
15	QPSK	36	0	20.72	20.92	20.73		
15	QPSK	36	20	20.78	20.75	20.76	22	0
15	QPSK	36	39	20.78	20.88	20.65		
15	QPSK	75	0	20.94	20.91	20.71		
15	16QAM	1	0	21.00	20.87	21.06		
15	16QAM	1	37	21.04	21.04	20.82	22	0
15	16QAM	1	74	20.94	21.04	20.97		
15	16QAM	36	0	20.81	20.84	21.06		
15	16QAM	36	20	20.91	20.97	20.92	22	0
15	16QAM	36	39	20.94	20.91	20.81		
15	16QAM	75	0	20.71	20.81	20.85		
15	64QAM	1	0	20.59	20.91	20.88		
15	64QAM	1	37	20.75	20.76	20.71	22	0
15	64QAM	1	74	20.82	20.81	20.51		
15	64QAM	36	0	19.38	19.53	19.44		
15	64QAM	36	20	19.40	19.51	19.39	20.3	1.7
15	64QAM	36	39	19.58	19.43	19.38		
15	64QAM	75	0	19.61	19.44	19.42		
15	256QAM	1	0	17.31	17.51	17.53		
15	256QAM	1	37	17.41	17.30	17.54	18.8	3.2
15	256QAM	1	74	17.34	17.36	17.23		
15	256QAM	36	0	17.33	17.42	17.34		
15	256QAM	36	20	17.25	17.34	17.29	18.8	3.2
15	256QAM	36	39	17.29	17.23	17.37		
15	256QAM	75	0	17.52	17.25	17.47		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	21.05	21.06	20.86		
10	QPSK	1	25	20.75	20.79	20.72	22	0
10	QPSK	1	49	20.94	20.81	20.78		
10	QPSK	25	0	20.87	20.84	20.77		
10	QPSK	25	12	20.68	20.83	20.75	22	0
10	QPSK	25	25	20.77	20.75	20.72		
10	QPSK	50	0	20.90	20.91	20.77		
10	16QAM	1	0	20.91	20.74	20.98		
10	16QAM	1	25	21.01	20.97	20.82	22	0
10	16QAM	1	49	20.75	20.92	20.76		
10	16QAM	25	0	21.00	20.81	20.92		
10	16QAM	25	12	20.75	20.90	20.76	22	0
10	16QAM	25	25	20.77	20.88	20.63		
10	16QAM	50	0	20.94	21.02	20.88		
10	64QAM	1	0	20.64	20.86	20.82		
10	64QAM	1	25	20.76	20.74	20.62	22	0
10	64QAM	1	49	20.72	20.84	20.51		
10	64QAM	25	0	19.41	19.62	19.35		
10	64QAM	25	12	19.25	19.52	19.36	20.3	1.7
10	64QAM	25	25	19.34	19.44	19.27		
10	64QAM	50	0	19.60	19.34	19.31		
10	256QAM	1	0	17.39	17.41	17.38		
10	256QAM	1	25	17.32	17.60	17.50	18.8	3.2
10	256QAM	1	49	17.30	17.47	17.28		
10	256QAM	25	0	17.23	17.43	17.37		
10	256QAM	25	12	17.46	17.32	17.46	18.8	3.2
10	256QAM	25	25	17.31	17.41	17.35		
10	256QAM	50	0	17.49	17.43	17.48		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	20.90	20.85	20.95		
5	QPSK	1	12	20.84	20.72	20.49	22	0
5	QPSK	1	24	20.85	20.73	20.68		
5	QPSK	12	0	20.91	20.82	20.66		
5	QPSK	12	7	20.77	20.87	20.97	22	0
5	QPSK	12	13	20.93	20.91	20.84		
5	QPSK	25	0	20.94	20.99	20.99		
5	16QAM	1	0	20.85	20.70	20.87		
5	16QAM	1	12	20.78	21.05	20.92	22	0
5	16QAM	1	24	20.69	21.02	20.89		
5	16QAM	12	0	21.04	20.84	20.89		
5	16QAM	12	7	20.89	20.71	20.77	22	0
5	16QAM	12	13	20.84	20.77	20.71		
5	16QAM	25	0	20.80	20.73	20.59		
5	64QAM	1	0	20.68	20.86	20.71		
5	64QAM	1	12	20.66	20.77	20.66	22	0
5	64QAM	1	24	20.63	20.72	20.67		
5	64QAM	12	0	19.51	19.44	19.55		
5	64QAM	12	7	19.24	19.47	19.49	20.3	1.7
5	64QAM	12	13	19.43	19.21	19.42		
5	64QAM	25	0	19.51	19.49	19.37		
5	256QAM	1	0	17.34	17.48	17.36		
5	256QAM	1	12	17.52	17.44	17.56	18.8	3.2
5	256QAM	1	24	17.28	17.39	17.45		
5	256QAM	12	0	17.25	17.27	17.19		
5	256QAM	12	7	17.29	17.36	17.44	18.8	3.2
5	256QAM	12	13	17.28	17.38	17.36		
5	256QAM	25	0	17.22	17.20	17.42		

Band 38(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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	17.10	16.90	17.00	17.4	0
20	QPSK	1	49	17.06	16.89	16.98		
20	QPSK	1	99	17.08	16.82	16.94		
20	QPSK	50	0	17.07	16.81	16.92		
20	QPSK	50	24	17.08	16.87	16.98	17.4	0
20	QPSK	50	50	17.05	16.82	16.95		
20	QPSK	100	0	17.07	16.85	16.95		
20	16QAM	1	0	16.92	16.78	16.79		
20	16QAM	1	49	16.91	16.72	16.76	17.4	0
20	16QAM	1	99	16.95	16.82	16.83		
20	16QAM	50	0	16.89	16.72	16.86		
20	16QAM	50	24	16.82	16.82	16.95	17.4	0
20	16QAM	50	50	16.87	16.76	16.87		
20	16QAM	100	0	17.00	16.85	16.79		
20	64QAM	1	0	16.81	16.82	16.85		
20	64QAM	1	49	16.99	16.76	16.68	17.4	0
20	64QAM	1	99	16.67	16.85	16.80		
20	64QAM	50	0	16.66	16.81	16.89		
20	64QAM	50	24	16.71	16.57	16.87	17.4	0
20	64QAM	50	50	16.95	16.71	16.84		
20	64QAM	100	0	16.82	16.72	16.56		
20	256QAM	1	0	15.42	15.47	15.49		
20	256QAM	1	49	15.34	15.31	15.39	16.3	1.1
20	256QAM	1	99	15.39	15.39	15.37		
20	256QAM	50	0	15.66	15.70	15.66		
20	256QAM	50	24	15.70	15.68	15.73	16.3	1.1
20	256QAM	50	50	15.68	15.70	15.69		
20	256QAM	100	0	15.67	15.62	15.70		
Channel				37825	38000	38175	Tune-up limit	MPR
Frequency (MHz)				2577.5	2595	2612.5	(dBm)	(dB)
15	QPSK	1	0	16.87	16.87	16.84	17.4	0
15	QPSK	1	37	16.86	16.88	16.97		
15	QPSK	1	74	16.98	16.45	16.91		
15	QPSK	36	0	16.82	16.67	16.73	17.4	0
15	QPSK	36	20	16.87	16.80	16.72		
15	QPSK	36	39	16.94	16.75	16.76		
15	QPSK	75	0	16.87	16.62	16.70		
15	16QAM	1	0	16.69	16.58	16.69	17.4	0
15	16QAM	1	37	16.79	16.65	16.77		
15	16QAM	1	74	16.78	16.75	16.71		
15	16QAM	36	0	16.94	16.68	16.73	17.4	0
15	16QAM	36	20	16.96	16.77	16.73		
15	16QAM	36	39	16.72	16.73	16.62		
15	16QAM	75	0	16.76	16.89	16.81		
15	64QAM	1	0	16.91	16.65	16.90	17.4	0
15	64QAM	1	37	16.94	16.60	16.49		
15	64QAM	1	74	16.42	16.79	16.70		
15	64QAM	36	0	16.50	16.58	16.71	17.4	0
15	64QAM	36	20	16.61	16.57	16.70		
15	64QAM	36	39	16.76	16.66	16.65		
15	64QAM	75	0	16.87	16.71	16.59		
15	256QAM	1	0	15.18	15.31	15.37	16.3	1.1
15	256QAM	1	37	15.28	15.28	15.29		
15	256QAM	1	74	15.44	15.15	15.42		
15	256QAM	36	0	15.49	15.71	15.47	16.3	1.1
15	256QAM	36	20	15.64	15.55	15.60		
15	256QAM	36	39	15.72	15.65	15.61		
15	256QAM	75	0	15.63	15.47	15.46		
Channel				37800	38000	38200	Tune-up limit	MPR
Frequency (MHz)				2575	2595	2615	(dBm)	(dB)
10	QPSK	1	0	16.93	16.78	16.88	17.4	0
10	QPSK	1	25	16.93	16.71	16.81		
10	QPSK	1	49	16.89	16.37	16.88		
10	QPSK	25	0	16.83	16.56	16.67	17.4	0
10	QPSK	25	12	16.89	16.67	16.74		
10	QPSK	25	25	16.90	16.65	16.86		
10	QPSK	50	0	16.88	16.62	16.91		
10	16QAM	1	0	16.89	16.79	16.58	17.4	0
10	16QAM	1	25	16.82	16.51	16.72		
10	16QAM	1	49	16.83	16.62	16.65		
10	16QAM	25	0	16.72	16.61	16.62	17.4	0
10	16QAM	25	12	16.86	16.62	16.81		
10	16QAM	25	25	16.64	16.52	16.86		
10	16QAM	50	0	16.85	16.67	16.82		
10	64QAM	1	0	16.86	16.70	16.63	17.4	0
10	64QAM	1	25	16.81	16.79	16.70		
10	64QAM	1	49	16.71	16.88	16.81		
10	64QAM	25	0	16.65	16.82	16.77	17.4	0
10	64QAM	25	12	16.50	16.54	16.74		
10	64QAM	25	25	16.73	16.52	16.61		
10	64QAM	50	0	16.82	16.66	16.57		
10	256QAM	1	0	15.38	15.30	15.34	16.3	1.1
10	256QAM	1	25	15.25	15.32	15.34		
10	256QAM	1	49	15.35	15.27	15.36		
10	256QAM	25	0	15.42	15.64	15.51	16.3	1.1
10	256QAM	25	12	15.50	15.46	15.58		
10	256QAM	25	25	15.66	15.62	15.51		
10	256QAM	50	0	15.65	15.47	15.45		
Channel				37775	38000	38225	Tune-up limit	MPR
Frequency (MHz)				2572.5	2595	2617.5	(dBm)	(dB)
5	QPSK	1	0	16.96	16.63	16.97	17.4	0
5	QPSK	1	12	17.00	16.61	16.98		
5	QPSK	1	24	16.87	16.61	16.70		
5	QPSK	12	0	16.82	16.68	16.79	17.4	0
5	QPSK	12	7	16.79	16.67	16.68		
5	QPSK	12	13	16.94	16.59	16.79		
5	QPSK	25	0	16.87	16.84	16.84		
5	16QAM	1	0	16.70	16.80	16.69	17.4	0
5	16QAM	1	12	16.92	16.69	16.67		
5	16QAM	1	24	17.00	16.75	16.60		
5	16QAM	12	0	16.71	16.65	16.80	17.4	0
5	16QAM	12	7	16.84	16.84	16.74		
5	16QAM	12	13	16.70	16.79	16.81		
5	16QAM	25	0	16.76	16.70	16.75		
5	64QAM	1	0	16.96	16.82	16.77	17.4	0
5	64QAM	1	12	16.81	16.72	16.59		
5	64QAM	1	24	16.67	16.63	16.65		
5	64QAM	12	0	16.64	16.62	16.77	17.4	0
5	64QAM	12	7	16.69	16.40	16.80		
5	64QAM	12	13	16.89	16.57	16.62		
5	64QAM	25	0	16.90	16.60	16.34		
5	256QAM	1	0	15.18	15.26	15.50	16.3	1.1
5	256QAM	1	12	15.15	15.35	15.35		
5	256QAM	1	24	15.24	15.29	15.30		
5	256QAM	12	0	15.57	15.65	15.42	16.3	1.1
5	256QAM	12	7	15.73	15.44	15.78		
5	256QAM	12	13	15.65	15.71	15.47		
5	256QAM	25	0	15.65	15.48	15.47		

Band 41 (2.6G Band)--Class 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	16.95	17.13	16.92	17.02	16.87	17.4	0
20	QPSK	1	49	17.01	17.15	17.02	17.08	16.92		
20	QPSK	1	99	16.98	17.14	17.00	17.03	16.88		
20	QPSK	50	0	16.90	17.06	16.98	16.98	16.80		
20	QPSK	50	24	16.96	17.07	16.98	17.03	16.85	17.4	0
20	QPSK	50	50	16.98	17.13	17.00	17.05	16.87		
20	QPSK	100	0	16.96	17.10	16.97	17.03	16.89		
20	16QAM	1	0	16.85	16.86	16.81	16.81	16.91		
20	16QAM	1	49	16.95	16.84	16.90	16.90	16.89	17.4	0
20	16QAM	1	99	16.81	16.88	16.88	16.88	16.84		
20	16QAM	50	0	16.99	16.99	16.97	16.97	16.83		
20	16QAM	50	24	16.88	17.00	16.94	16.94	16.82	17.4	0
20	16QAM	50	50	16.88	16.85	16.99	16.99	16.85		
20	16QAM	100	0	16.88	16.81	16.87	16.87	16.92		
20	64QAM	1	0	16.82	16.93	16.93	16.83	16.88		
20	64QAM	1	49	16.87	17.00	17.00	16.97	16.83	17.4	0
20	64QAM	1	99	16.90	16.84	16.84	16.85	16.82		
20	64QAM	50	0	16.90	16.82	16.82	16.96	16.89		
20	64QAM	50	24	16.84	17.00	17.00	16.99	16.88	17.4	0
20	64QAM	50	50	16.99	16.87	16.87	16.84	16.94		
20	64QAM	100	0	16.98	16.82	16.82	16.96	16.84		
20	256QAM	1	0	15.38	15.32	15.27	15.24	15.18		
20	256QAM	1	49	15.26	15.39	15.21	15.17	15.00	16.3	1.1
20	256QAM	1	99	15.33	15.29	15.19	15.17	15.01		
20	256QAM	50	0	15.60	15.46	15.51	15.49	15.35		
20	256QAM	50	24	15.64	15.48	15.48	15.45	15.34	16.3	1.1
20	256QAM	50	50	15.62	15.43	15.52	15.43	15.35		
20	256QAM	100	0	15.55	15.48	15.43	15.36	15.24		
Channel				39725	40173	40620	41068	41515	Tune-up limit	MPR
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	(dBm)	(dB)
15	QPSK	1	0	16.75	16.81	16.83	16.99	16.87	17.4	0
15	QPSK	1	37	16.71	16.88	16.81	16.84	16.87		
15	QPSK	1	74	16.78	16.87	16.93	16.81	16.71		
15	QPSK	36	0	16.72	16.91	16.98	16.76	16.64	17.4	0
15	QPSK	36	20	16.74	16.85	16.75	16.91	16.73		
15	QPSK	36	39	16.79	16.84	16.81	16.93	16.67		
15	QPSK	75	0	16.90	16.88	16.91	16.92	16.65		
15	16QAM	1	0	16.68	16.90	16.92	16.91	16.87	17.4	0
15	16QAM	1	37	16.77	16.89	16.91	16.87	16.77		
15	16QAM	1	74	16.80	16.99	16.94	16.82	16.67		
15	16QAM	36	0	16.82	16.86	16.80	16.83	16.62		
15	16QAM	36	20	16.95	16.83	16.99	16.88	16.86	17.4	0
15	16QAM	36	39	16.86	16.81	16.82	16.83	16.89		
15	16QAM	75	0	16.86	16.92	16.99	16.83	16.86		
15	64QAM	1	0	16.62	16.71	16.82	16.81	16.65	17.4	0
15	64QAM	1	37	16.89	16.88	16.95	16.75	16.73		
15	64QAM	1	74	16.79	16.98	16.84	16.80	16.62		
15	64QAM	36	0	16.93	16.89	16.92	16.92	16.91	17.4	0
15	64QAM	36	20	16.93	16.84	16.76	16.82	16.84		
15	64QAM	36	39	16.79	16.80	16.95	16.93	16.91		
15	64QAM	75	0	16.99	16.81	16.81	16.71	16.77		
15	256QAM	1	0	15.26	15.18	15.26	15.27	15.09	16.3	1.1
15	256QAM	1	37	15.06	15.23	15.01	15.01	15.02		
15	256QAM	1	74	15.25	15.24	15.17	15.22	15.25		
15	256QAM	36	0	15.57	15.44	15.55	15.52	15.12	16.3	1.1
15	256QAM	36	20	15.62	15.31	15.41	15.27	15.26		
15	256QAM	36	39	15.53	15.41	15.28	15.20	15.31		
15	256QAM	75	0	15.50	15.35	15.22	15.33	15.05		
Channel				39700	40160	40620	41080	41540	Tune-up limit	MPR
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)	(dB)
10	QPSK	1	0	16.81	16.81	16.71	16.79	16.63	17.4	0
10	QPSK	1	25	16.81	16.84	16.86	16.91	16.92		
10	QPSK	1	49	16.86	16.83	16.85	16.82	16.69		
10	QPSK	25	0	16.85	16.76	16.79	16.95	16.67	17.4	0
10	QPSK	25	12	16.67	16.97	16.81	16.84	16.73		
10	QPSK	25	25	16.72	16.84	16.78	16.83	16.83		
10	QPSK	50	0	16.87	16.96	16.86	16.87	16.72		
10	16QAM	1	0	16.61	16.89	16.82	16.93	16.89	17.4	0
10	16QAM	1	25	16.89	16.93	16.78	16.65	16.73		
10	16QAM	1	49	16.84	16.85	16.91	16.80	16.68		
10	16QAM	25	0	16.81	16.76	16.87	16.95	16.82	17.4	0
10	16QAM	25	12	16.82	16.84	16.82	16.83	16.83		
10	16QAM	25	25	16.89	16.91	16.82	16.77	16.69		
10	16QAM	50	0	16.87	16.93	16.82	16.82	16.85		
10	64QAM	1	0	16.87	16.75	16.79	16.85	16.82	17.4	0
10	64QAM	1	25	16.65	17.00	16.85	16.83	16.67		
10	64QAM	1	49	16.78	16.87	17.00	16.81	16.70		
10	64QAM	25	0	16.79	16.86	16.87	16.94	16.94	17.4	0
10	64QAM	25	12	16.83	16.98	16.77	16.97	16.72		
10	64QAM	25	25	16.88	16.87	16.88	16.85	16.72		
10	64QAM	50	0	16.81	16.94	16.97	16.86	16.88		
10	256QAM	1	0	15.35	15.34	15.31	15.19	15.05	16.3	1.1
10	256QAM	1	25	15.29	15.22	15.26	15.02	15.29		
10	256QAM	1	49	15.30	15.29	15.15	15.14	15.06		
10	256QAM	25	0	15.53	15.51	15.52	15.51	15.11	16.3	1.1
10	256QAM	25	12	15.46	15.28	15.40	15.23	15.29		
10	256QAM	25	25	15.43	15.37	15.55	15.19	15.29		
10	256QAM	50	0	15.41	15.53	15.44	15.24	15.03		
Channel				39675	40148	40620	41093	41565	Tune-up limit	MPR
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)	(dB)
5	QPSK	1	0	16.95	16.82	16.99	16.81	16.64	17.4	0
5	QPSK	1	12	16.77	16.87	16.84	16.97	16.86		
5	QPSK	1	24	16.71	16.90	16.95	16.82	16.82		
5	QPSK	12	0	16.70	16.77	16.90	16.73	16.68	17.4	0
5	QPSK	12	7	16.87	16.78	16.76	16.95	16.72		
5	QPSK	12	13	16.87	16.94	16.79	16.87	16.85		
5	QPSK	25	0	16.83	16.90	16.81	16.94	16.75		
5	16QAM	1	0	16.68	16.83	16.93	16.91	16.95	17.4	0
5	16QAM	1	12	16.92	16.97	16.69	16.74	16.87		
5	16QAM	1	24	16.77	16.83	16.80	16.91	16.61		
5	16QAM	12	0	16.97	16.83	16.74	16.73	16.81	17.4	0
5	16QAM	12	7	16.94	16.82	16.86	16.84	16.64		
5	16QAM	12	13	16.99	16.98	16.80	16.84	16.76		
5	16QAM	25	0	16.84	17.00	16.86	16.97	16.86		
5	64QAM	1	0	16.80	16.84	16.72	16.97	16.67	17.4	0
5	64QAM	1	12	16.69	16.75	16.79	16.83	16.58		
5	64QAM	1	24	16.75	16.82	16.84	16.83	16.59		
5	64QAM	12	0	16.94	16.86	16.93	16.78	16.76	17.4	0
5	64QAM	12	7	16.86	16.98	16.97	16.90	16.89		
5	64QAM	12	13	16.78	16.82	16.83	16.93	16.86		
5	64QAM	25	0	16.99	16.91	16.91	16.84	16.84		
5	256QAM	1	0	15.13	15.37	15.17	15.27	15.07	16.3	1.1
5	256QAM	1	12	15.04	15.20	15.19	15.22	15.21		
5	256QAM	1	24	15.27	15.16	15.08	15.08	15.25		
5	256QAM	12	0	15.59	15.34	15.42	15.29	15.11	16.3	1.1
5	256QAM	12	7	15.46	15.40	15.29	15.23	15.34		
5	256QAM	12	13	15.62	15.19	15.31	15.46	15.22		
5	256QAM	25	0	15.45	15.40	15.22	15.26	15.26		

Band 41 (2.6G Band) HPUE (Limit 27)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.90	18.13	18.13	18.10	17.93	19	0
20	QPSK	1	49	18.08	18.20	18.18	18.12	17.97		
20	QPSK	1	99	18.00	18.08	18.08	18.03	17.95		
20	QPSK	50	0	17.96	18.07	18.07	18.04	17.92		
20	QPSK	50	24	18.03	18.12	18.09	18.08	17.94	19	0
20	QPSK	50	50	18.06	18.17	18.15	18.10	17.95		
20	QPSK	100	0	18.05	18.14	18.12	18.07	17.93		
20	16QAM	1	0	17.89	18.10	18.10	18.10	17.93		
20	16QAM	1	49	18.05	18.11	18.11	18.09	17.99	19	0
20	16QAM	1	99	18.08	18.15	18.15	18.12	17.96		
20	16QAM	50	0	17.87	17.99	17.99	17.98	17.85		
20	16QAM	50	24	18.00	18.02	18.02	17.99	17.81	19	0
20	16QAM	50	50	18.00	18.06	18.06	18.04	17.89		
20	16QAM	100	0	18.00	18.00	18.00	17.94	17.81		
20	64QAM	1	0	17.82	17.93	17.93	18.03	17.88		
20	64QAM	1	49	17.87	18.00	18.00	17.97	17.83	19	0
20	64QAM	1	99	17.90	18.04	18.04	18.05	17.82		
20	64QAM	50	0	17.90	18.02	18.02	17.96	17.89		
20	64QAM	50	24	18.04	18.00	18.00	17.99	17.88	19	0
20	64QAM	50	50	17.99	18.07	18.07	18.04	17.94		
20	64QAM	100	0	17.98	18.02	18.02	17.96	17.84		
20	256QAM	1	0	17.89	17.87	17.85	17.82	17.68		
20	256QAM	1	49	17.80	17.74	17.77	17.59	17.57	18.8	0.2
20	256QAM	1	99	17.87	17.73	17.77	17.68	17.55		
20	256QAM	50	0	18.08	17.99	17.94	17.94	17.81		
20	256QAM	50	24	18.10	18.02	17.91	17.88	17.77	18.8	0.2
20	256QAM	50	50	18.05	17.92	17.96	17.89	17.77		
20	256QAM	100	0	18.02	17.88	17.87	17.78	17.67		
Channel				39725	40173	40620	41068	41515	Tune-up limit	MPR
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	(dBm)	(dB)
15	QPSK	1	0	17.67	17.84	18.00	17.96	17.93	19	0
15	QPSK	1	37	17.81	17.99	18.12	18.16	17.89		
15	QPSK	1	74	17.74	17.98	17.86	18.08	17.87		
15	QPSK	36	0	17.79	17.90	17.82	17.92	17.76	19	0
15	QPSK	36	20	17.73	18.10	18.02	17.92	17.72		
15	QPSK	36	39	17.99	18.04	18.16	18.15	17.98		
15	QPSK	75	0	17.92	17.97	17.88	17.89	17.76		
15	16QAM	1	0	17.84	17.94	18.12	17.95	17.82	19	0
15	16QAM	1	37	17.80	18.14	18.01	18.13	17.89		
15	16QAM	1	74	17.94	18.04	18.02	18.01	17.74		
15	16QAM	36	0	17.77	17.84	17.92	17.83	17.87	19	0
15	16QAM	36	20	17.83	17.77	17.77	17.88	17.78		
15	16QAM	36	39	17.89	17.87	17.81	17.94	17.94		
15	16QAM	75	0	17.96	17.96	17.80	17.81	17.74		
15	64QAM	1	0	17.71	17.74	17.73	18.01	17.91	19	0
15	64QAM	1	37	17.88	18.00	17.97	17.72	17.83		
15	64QAM	1	74	17.91	17.84	17.90	17.89	17.82		
15	64QAM	36	0	17.65	17.84	17.93	17.82	17.93	19	0
15	64QAM	36	20	17.94	17.95	18.04	17.88	17.70		
15	64QAM	36	39	17.85	17.84	17.89	18.06	17.73		
15	64QAM	75	0	17.83	18.01	17.86	17.97	17.80		
15	256QAM	1	0	17.64	17.87	17.74	17.74	17.44	18.8	0.2
15	256QAM	1	37	17.84	17.67	17.76	17.44	17.45		
15	256QAM	1	74	17.85	17.73	17.74	17.72	17.47		
15	256QAM	36	0	17.94	17.84	17.73	17.91	17.78	18.8	0.2
15	256QAM	36	20	18.01	17.92	17.88	17.90	17.54		
15	256QAM	36	39	17.87	17.80	17.92	17.80	17.67		
15	256QAM	75	0	17.77	17.75	17.74	17.73	17.51		
Channel				39700	40160	40620	41080	41540	Tune-up limit	MPR
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)	(dB)
10	QPSK	1	0	17.63	18.03	18.03	17.96	17.91	19	0
10	QPSK	1	25	18.07	18.1	17.98	17.98	17.75		
10	QPSK	1	49	17.86	17.8	18.09	18.07	17.87		
10	QPSK	25	0	17.83	18.04	18.03	17.97	17.88	19	0
10	QPSK	25	12	18.02	17.94	17.96	17.86	17.76		
10	QPSK	25	25	17.83	18.01	17.93	18.06	17.77		
10	QPSK	50	0	17.89	17.92	17.88	17.93	17.75		
10	16QAM	1	0	17.9	17.92	18.05	18.1	17.78	19	0
10	16QAM	1	25	18.03	17.97	18.03	17.94	17.98		
10	16QAM	1	49	18.05	18.01	18.1	18.08	17.84		
10	16QAM	25	0	17.88	17.93	17.82	17.97	17.81	19	0
10	16QAM	25	12	18.05	17.83	17.94	17.95	17.84		
10	16QAM	25	25	18	17.96	18	17.81	17.9		
10	16QAM	50	0	18.04	17.87	18.04	17.88	17.75		
10	64QAM	1

Band 48 (3.5G Band)--FCC

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Midde Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	16.06	16.11	16.15	16.21		
20	QPSK	1	49	15.93	15.96	15.98	15.91	17.1	0
20	QPSK	1	99	15.97	15.98	16.02	15.95		
20	QPSK	50	0	16.02	16.05	16.03	16.05		
20	QPSK	50	24	16.04	16.03	16.04	16.05	17.1	0
20	QPSK	50	50	15.92	15.89	15.92	16.00		
20	QPSK	100	0	16.03	16.02	16.02	16.04		
20	16QAM	1	0	16.05	16.03	16.08	16.01		
20	16QAM	1	49	16.02	16.05	16.06	15.92	17.1	0
20	16QAM	1	99	16.00	16.09	16.08	15.99		
20	16QAM	50	0	16.09	16.02	16.01	16.02		
20	16QAM	50	24	16.07	16.09	16.04	16.03	17.1	0
20	16QAM	50	50	16.04	16.05	16.05	16.06		
20	16QAM	100	0	16.09	16.04	15.99	16.02		
20	64QAM	1	0	15.95	15.96	15.96	15.93		
20	64QAM	1	49	15.97	16.01	16.06	15.96	17.1	0
20	64QAM	1	99	16.01	16.06	16.03	15.99		
20	64QAM	50	0	16.00	16.08	16.02	16.00		
20	64QAM	50	24	16.06	16.08	16.03	16.06	17.1	0
20	64QAM	50	50	16.08	16.06	16.02	16.08		
20	64QAM	100	0	16.00	16.00	16.08	16.05		
20	256QAM	1	0	15.92	15.94	15.94	15.89		
20	256QAM	1	49	15.90	15.95	15.99	15.96	17.1	0
20	256QAM	1	99	15.98	15.96	15.96	16.02		
20	256QAM	50	0	16.06	16.06	16.01	16.06		
20	256QAM	50	24	16.00	16.09	16.01	16.02	17.1	0
20	256QAM	50	50	16.05	16.00	16.06	16.01		
20	256QAM	100	0	16.06	16.08	16.00	16.00		
Channel				55315	55820	56160		Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	15.90	16.07	16.10	16.10		
15	QPSK	1	37	15.72	15.66	15.82	15.71	17.1	0
15	QPSK	1	74	15.77	15.93	15.99	15.90		
15	QPSK	36	0	15.78	15.98	15.98	15.90		
15	QPSK	36	20	15.87	15.86	15.93	16.11	17.1	0
15	QPSK	36	39	15.71	15.64	15.81	15.89		
15	QPSK	75	0	15.82	15.92	15.91	15.99		
15	16QAM	1	0	15.80	15.99	15.89	16.00		
15	16QAM	1	37	15.89	15.89	15.82	15.84	17.1	0
15	16QAM	1	74	15.81	16.07	15.97	15.97		
15	16QAM	36	0	16.10	15.93	15.84	16.01		
15	16QAM	36	20	16.02	15.85	16.01	15.95	17.1	0
15	16QAM	36	39	16.09	15.98	16.05	15.84		
15	16QAM	75	0	15.97	15.80	15.95	15.82		
15	64QAM	1	0	15.89	15.88	15.97	15.73		
15	64QAM	1	37	15.76	15.82	15.84	15.95	17.1	0
15	64QAM	1	74	15.77	15.87	16.08	15.94		
15	64QAM	36	0	15.97	15.83	15.89	15.92		
15	64QAM	36	20	15.94	15.95	16.08	15.86	17.1	0
15	64QAM	36	39	15.99	15.88	15.82	15.93		
15	64QAM	75	0	15.78	15.86	15.98	16.04		
15	256QAM	1	0	15.89	15.70	15.88	15.72		
15	256QAM	1	37	15.89	15.99	15.88	15.79	17.1	0
15	256QAM	1	74	15.85	15.82	15.73	15.78		
15	256QAM	36	0	15.88	16.09	15.91	15.96		
15	256QAM	36	20	15.86	16.13	15.95	15.78	17.1	0
15	256QAM	36	39	15.92	16.04	15.88	15.76		
15	256QAM	75	0	16.11	15.83	15.80	15.80		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	15.97	15.89	16.16	16.15		
10	QPSK	1	25	15.63	15.68	15.97	15.80	17.1	0
10	QPSK	1	49	15.81	15.96	15.79	15.99		
10	QPSK	25	0	15.77	15.77	15.90	15.97		
10	QPSK	25	12	15.83	16.01	15.87	16.09	17.1	0
10	QPSK	25	25	15.87	15.63	15.93	15.92		
10	QPSK	50	0	15.96	15.97	16.00	15.83		
10	16QAM	1	0	16.09	15.97	16.13	15.76		
10	16QAM	1	25	15.77	16.02	15.89	15.79	17.1	0
10	16QAM	1	49	15.93	15.97	16.10	15.82		
10	16QAM	25	0	16.13	15.90	15.78	15.84		
10	16QAM	25	12	15.87	16.08	15.92	15.97	17.1	0
10	16QAM	25	25	15.96	16.07	15.91	16.08		
10	16QAM	50	0	16.04	16.06	16.00	15.78		
10	64QAM	1	0	15.93	15.75	15.93	15.76		
10	64QAM	1	25	15.92	15.89	16.00	15.76	17.1	0
10	64QAM	1	49	15.76	16.10	15.87	15.76		
10	64QAM	25	0	15.90	15.93	16.03	16.03		
10	64QAM	25	12	16.05	16.10	15.88	16.08	17.1	0
10	64QAM	25	25	16.09	15.97	15.79	16.09		
10	64QAM	50	0	16.04	15.90	15.88	15.81		
10	256QAM	1	0	15.75	15.94	15.88	15.73		
10	256QAM	1	25	15.91	15.70	15.92	15.91	17.1	0
10	256QAM	1	49	15.92	15.94	15.86	15.78		
10	256QAM	25	0	16.03	15.90	16.06	15.83		
10	256QAM	25	12	16.04	15.92	15.85	15.91	17.1	0
10	256QAM	25	25	15.83	15.88	15.95	15.81		
10	256QAM	50	0	15.96	15.83	15.86	15.86		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	16.01	15.98	16.10	16.13		
5	QPSK	1	12	15.67	15.68	15.76	15.84	17.1	0
5	QPSK	1	24	15.73	15.83	15.86	15.85		
5	QPSK	12	0	15.95	15.84	15.96	15.95		
5	QPSK	12	7	15.96	15.94	15.87	15.90	17.1	0
5	QPSK	12	13	15.72	15.81	15.85	15.97		
5	QPSK	25	0	15.92	15.90	15.82	15.86		
5	16QAM	1	0	15.85	15.83	16.01	15.96		
5	16QAM	1	12	16.00	16.05	15.99	15.87	17.1	0
5	16QAM	1	24	15.79	15.84	15.96	15.75		
5	16QAM	12	0	16.12	15.82	15.86	15.90		
5	16QAM	12	7	15.96	16.03	15.98	15.95	17.1	0
5	16QAM	12	13	16.02	15.92	15.82	16.00		
5	16QAM	25	0	15.85	15.91	15.91	15.79		
5	64QAM	1	0	15.80	15.77	15.90	15.78		
5	64QAM	1	12	15.73	15.87	15.92	15.82	17.1	0
5	64QAM	1	24	15.83	16.08	15.85	15.96		
5	64QAM	12	0	16.01	16.04	15.78	15.83		
5	64QAM	12	7	15.88	15.85	15.98	16.01	17.1	0
5	64QAM	12	13	15.92	16.02	15.95	16.02		
5	64QAM	25	0	16.01	15.87	15.83	15.99		
5	256QAM	1	0	15.94	15.74	15.95	15.92		
5	256QAM	1	12	15.94	15.88	15.80	16.01	17.1	0
5	256QAM	1	24	15.87	15.98	15.81	15.84		
5	256QAM	12	0	15.86	15.99	15.97	15.87		
5	256QAM	12	7	15.84	15.97	15.81	15.86	17.1	0
5	256QAM	12	13	15.92	15.93	15.85	15.96		
5	256QAM	25	0	15.83	16.05	16.04	16.03		

Reduced power for Sensor on-UAT

Band 48 (3.5G Band)--FCC

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	19.15	19.18	19.20	19.24	20.3	0
20	QPSK	1	49	18.96	18.98	19.00	18.94		
20	QPSK	1	99	19.00	18.98	18.98	18.97		
20	QPSK	50	0	19.04	19.05	19.07	19.04	20.3	0
20	QPSK	50	24	19.13	19.15	19.17	19.22		
20	QPSK	50	50	18.98	18.97	19.02	18.96		
20	QPSK	100	0	19.12	19.13	19.15	19.18		
20	16QAM	1	0	19.05	19.05	19.05	19.10	20.3	0
20	16QAM	1	49	18.91	18.95	18.90	18.94		
20	16QAM	1	99	19.06	19.10	19.07	19.05		
20	16QAM	50	0	19.12	19.13	19.09	19.10	20.3	0
20	16QAM	50	24	19.10	19.10	19.14	19.07		
20	16QAM	50	50	19.04	18.99	18.95	19.05		
20	16QAM	100	0	19.14	19.09	19.11	19.15		
20	64QAM	1	0	18.97	18.98	18.98	18.99	20.3	0
20	64QAM	1	49	18.74	18.69	18.68	18.83		
20	64QAM	1	99	18.94	18.94	18.96	18.84		
20	64QAM	50	0	18.90	18.94	18.92	18.86	20.3	0
20	64QAM	50	24	19.11	19.06	19.11	18.86		
20	64QAM	50	50	19.05	19.07	19.06	19.00		
20	64QAM	100	0	19.08	19.04	19.04	19.12		
20	256QAM	1	0	17.80	17.68	17.78	17.73	19.3	1
20	256QAM	1	49	17.59	17.31	17.49	17.48		
20	256QAM	1	99	17.49	17.53	17.54	17.46		
20	256QAM	50	0	17.76	17.95	17.73	17.77	19.3	1
20	256QAM	50	24	17.94	17.75	17.91	17.86		
20	256QAM	50	50	17.61	17.66	17.67	17.71		
20	256QAM	100	0	17.66	17.84	17.74	17.80		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	19.10	19.08	19.10	19.01	20.3	0
15	QPSK	1	37	18.94	19.00	18.86	19.05		
15	QPSK	1	74	18.84	18.84	18.90	18.80		
15	QPSK	36	0	18.93	18.98	18.90	18.97	20.3	0
15	QPSK	36	20	18.99	19.18	19.01	18.99		
15	QPSK	36	39	18.81	18.96	18.78	19.02		
15	QPSK	75	0	19.02	19.11	18.96	18.99		
15	16QAM	1	0	18.93	18.95	18.94	19.08	20.3	0
15	16QAM	1	37	18.99	19.00	18.83	18.93		
15	16QAM	1	74	19.00	18.96	18.91	19.02		
15	16QAM	36	0	19.20	19.11	19.15	19.21	20.3	0
15	16QAM	36	20	19.02	19.05	19.14	19.13		
15	16QAM	36	39	19.00	18.96	19.10	18.94		
15	16QAM	75	0	18.99	18.94	19.17	19.02		
15	64QAM	1	0	18.95	19.04	18.82	18.99	20.3	0
15	64QAM	1	37	18.78	18.80	18.81	18.78		
15	64QAM	1	74	18.94	18.91	18.98	18.93		
15	64QAM	36	0	19.20	19.22	19.18	19.20	20.3	0
15	64QAM	36	20	19.16	19.16	19.22	18.97		
15	64QAM	36	39	19.17	19.05	19.16	19.08		
15	64QAM	75	0	19.20	19.18	19.12	18.99		
15	256QAM	1	0	17.81	17.80	17.70	17.71	19.3	1
15	256QAM	1	37	17.64	17.44	17.61	17.60		
15	256QAM	1	74	17.84	17.62	17.67	17.57		
15	256QAM	36	0	17.96	17.98	17.95	17.89	19.3	1
15	256QAM	36	20	17.91	17.90	18.00	17.86		
15	256QAM	36	39	17.71	17.86	17.97	17.84		
15	256QAM	75	0	17.81	17.71	17.90	17.96		
Channel				55200	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	19.13	18.89	18.86	19.08	20.3	0
10	QPSK	1	25	19.04	19.01	18.95	18.88		
10	QPSK	1	49	18.91	18.96	18.80	19.01		
10	QPSK	25	0	18.90	19.06	18.98	19.03	20.3	0
10	QPSK	25	12	19.00	19.12	18.97	19.22		
10	QPSK	25	25	18.83	18.97	19.05	18.78		
10	QPSK	50	0	18.97	19.05	19.00	18.99		
10	16QAM	1	0	19.17	18.92	19.11	19.12	20.3	0
10	16QAM	1	25	19.00	19.08	18.82	18.99		
10	16QAM	1	49	19.21	19.22	19.10	19.14		
10	16QAM	25	0	19.19	19.00	19.04	19.18	20.3	0
10	16QAM	25	12	19.23	19.17	19.22	19.07		
10	16QAM	25	25	19.12	18.96	19.15	18.86		
10	16QAM	50	0	19.06	19.07	19.17	19.14		
10	64QAM	1	0	19.05	18.88	19.00	19.05	20.3	0
10	64QAM	1	25	18.76	18.64	18.72	18.68		
10	64QAM	1	49	19.00	18.92	18.92	19.00		
10	64QAM	25	0	19.05	19.17	19.11	19.11	20.3	0
10	64QAM	25	12	19.06	19.01	19.09	18.93		
10	64QAM	25	25	18.99	19.11	18.97	18.93		
10	64QAM	50	0	19.19	19.12	19.15	19.17		
10	256QAM	1	0	17.71	17.65	17.62	17.80	19.3	1
10	256QAM	1	25	17.52	17.52	17.34	17.62		
10	256QAM	1	49	17.58	17.58	17.75	17.59		
10	256QAM	25	0	17.86	17.86	17.89	17.91	19.3	1
10	256QAM	25	12	17.69	17.73	17.71	17.87		
10	256QAM	25	25	17.60	17.85	17.75	17.71		
10	256QAM	50	0	17.92	17.66	17.82	17.88		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	19.02	19.10	19.06	18.92	20.3	0
5	QPSK	1	12	18.90	19.00	18.79	18.99		
5	QPSK	1	24	18.81	19.00	19.09	18.81		
5	QPSK	12	0	18.99	18.90	18.96	18.89	20.3	0
5	QPSK	12	7	18.98	19.12	19.18	19.17		
5	QPSK	12	13	18.85	18.99	18.87	18.97		
5	QPSK	25	0	18.95	18.98	19.06	19.02		
5	16QAM	1	0	19.10	19.08	19.20	19.04	20.3	0
5	16QAM	1	12	18.76	18.89	18.82	19.10		
5	16QAM	1	24	19.08	19.07	19.10	19.00		
5	16QAM	12	0	19.21	19.16	19.10	19.13	20.3	0
5	16QAM	12	7	18.96	19.12	19.12	19.18		
5	16QAM	12	13	19.10	19.11	19.03	18.89		
5	16QAM	25	0	19.15	19.14	19.20	19.23		
5	64QAM	1	0	19.12	19.00	18.96	19.02	20.3	0
5	64QAM	1	12	18.62	18.62	18.88	18.77		
5	64QAM	1	24	18.83	18.85	18.96	19.01		
5	64QAM	12	0	19.20	19.22	19.10	19.16	20.3	0
5	64QAM	12	7	19.11	19.10	19.20	19.19		
5	64QAM	12	13	18.90	19.07	18.99	19.03		
5	64QAM	25	0	19.18	19.13	19.15	18.93		
5	256QAM	1	0	17.65	17.66	17.81	17.85	19.3	1
5	256QAM	1	12	17.44	17.46	17.63	17.60		
5	256QAM	1	24	17.60	17.68	17.69	17.49		
5	256QAM	12	0	17.96	17.99	17.89	18.00	19.3	1
5	256QAM	12	7	17.93	17.91	17.93	17.99		
5	256QAM	12	13	17.74	17.89	17.96	17.74		
5	256QAM	25	0	18.03	17.90	17.82	17.85		

Reduced power level 1 for Head-UAT

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	30.88	30.93	31.07	32.30	21.88	21.93	22.07	23.30
GPRS 1 Tx slot	30.81	30.82	31.01	32.30	21.81	21.82	22.01	23.30
GPRS 2 Tx slots	28.16	28.20	28.24	29.80	22.16	22.20	22.24	23.80
GPRS 3 Tx slots	26.98	27.06	27.07	28.30	22.72	22.80	22.81	24.04
GPRS 4 Tx slots	25.42	25.22	25.06	27.00	22.42	22.22	22.06	24.00
EDGE 1 Tx slot	24.83	24.90	25.27	26.30	15.83	15.90	16.27	17.30
EDGE 2 Tx slots	23.23	23.25	23.56	24.30	17.23	17.25	17.56	18.30
EDGE 3 Tx slots	22.12	22.23	22.43	23.30	17.86	17.97	18.17	19.04
EDGE 4 Tx slots	21.44	21.82	21.75	22.70	18.44	18.82	18.75	19.70

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	25.01	25.06	25.09	25.70	16.01	16.06	16.09	16.70
GPRS 1 Tx slot	25.14	25.17	25.04	25.70	16.14	16.17	16.04	16.70
GPRS 2 Tx slots	22.17	22.40	22.12	23.20	16.17	16.40	16.12	17.20
GPRS 3 Tx slots	20.66	20.68	20.74	21.90	16.40	16.42	16.48	17.64
GPRS 4 Tx slots	17.36	17.43	17.49	18.50	14.36	14.43	14.49	15.50
EDGE 1 Tx slot	22.54	22.46	22.83	23.80	13.54	13.46	13.83	14.80
EDGE 2 Tx slots	21.41	21.26	21.55	22.70	15.41	15.26	15.55	16.70
EDGE 3 Tx slots	20.35	20.52	20.51	21.60	16.09	16.26	16.25	17.34
EDGE 4 Tx slots	19.38	19.18	19.32	20.60	16.38	16.18	16.32	17.60

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	17.57	17.59	17.54	18.50	17.70	17.75	17.78	18.70	21.85	21.88	21.78	22.60
3GPP Rel 99	RMC 12.2Kbps	17.60	17.61	17.57	18.50	17.72	17.77	17.80	18.70	21.87	21.90	21.80	22.60
3GPP Rel 6	HSDPA Subtest-1	16.65	16.67	16.65	17.50	16.73	16.81	16.78	17.70	20.69	20.62	20.55	21.60
3GPP Rel 6	HSDPA Subtest-2	16.61	16.66	16.64	17.50	16.76	16.83	16.81	17.70	20.67	20.64	20.56	21.60
3GPP Rel 6	HSDPA Subtest-3	15.81	16.17	16.09	17.00	16.27	16.31	16.30	17.20	20.21	20.16	20.01	21.10
3GPP Rel 6	HSDPA Subtest-4	16.15	16.15	16.11	17.00	16.30	16.32	16.27	17.20	20.20	20.13	20.02	21.10
3GPP Rel 8	DC-HSDPA Subtest-1	16.41	16.45	16.41	17.50	16.53	16.57	16.61	17.70	20.51	20.39	20.39	21.60
3GPP Rel 8	DC-HSDPA Subtest-2	16.45	16.50	16.46	17.50	16.61	16.63	16.64	17.70	20.48	20.49	20.35	21.60
3GPP Rel 8	DC-HSDPA Subtest-3	15.59	15.96	15.88	17.00	16.12	16.16	16.11	17.20	20.02	19.92	19.87	21.10
3GPP Rel 8	DC-HSDPA Subtest-4	15.95	16.01	15.89	17.00	16.16	16.10	16.05	17.20	20.03	19.96	19.79	21.10
3GPP Rel 6	HSUPA Subtest-1	16.64	16.71	16.64	17.50	16.79	16.90	16.85	17.70	20.67	20.62	20.59	21.60
3GPP Rel 6	HSUPA Subtest-2	15.66	15.68	15.67	16.50	15.75	15.88	15.81	16.70	18.68	18.62	18.55	19.60
3GPP Rel 6	HSUPA Subtest-3	13.65	13.66	13.69	14.50	14.64	14.82	14.72	15.70	19.53	19.61	19.55	20.60
3GPP Rel 6	HSUPA Subtest-4	14.43	14.45	14.47	15.50	15.63	15.67	15.60	15.70	18.67	18.58	18.60	19.60
3GPP Rel 6	HSUPA Subtest-5	16.61	16.70	16.63	17.50	16.84	16.80	16.79	17.70	20.72	20.62	20.54	21.60
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	14.22	14.24	14.20	16.00	15.51	15.57	15.44	16.20	18.35	18.33	18.37	19.10

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	20.15	20.18	20.12	21.30	16.33	16.41	16.32	17.40	19.87	19.91	19.85	21.40
RC3 SO55	20.13	20.16	20.11	21.30	16.31	16.40	16.30	17.40	19.86	19.90	19.83	21.40
RC3 SO32 (F+SCH)	20.12	20.15	20.09	21.30	16.30	16.38	16.28	17.40	19.84	19.88	19.82	21.40
RC3 SO32 (+SCH)	20.10	20.13	20.07	21.30	16.28	16.36	16.27	17.40	19.82	19.86	19.80	21.40
RTAP 153.6Kbps	20.09	20.10	20.05	21.30	16.26	16.35	16.25	17.40	19.81	19.85	19.78	21.40
RETAP 4096Bits	20.07	20.09	20.03	21.30	16.25	16.33	16.23	17.40	19.79	19.83	19.77	21.40

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				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	15.90	16.04	15.97		
20	QPSK	1	49	15.88	15.98	15.95	17	0
20	QPSK	1	99	15.84	15.87	15.88		
20	QPSK	50	0	15.97	15.99	15.95		
20	QPSK	50	24	15.96	15.96	15.91	17	0
20	QPSK	50	50	15.93	15.96	15.94		
20	QPSK	100	0	15.94	15.97	15.91		
20	16QAM	1	0	15.92	15.99	15.91		
20	16QAM	1	49	15.90	15.97	16.00	17	0
20	16QAM	1	99	15.97	15.97	15.95		
20	16QAM	50	0	15.98	15.98	15.94		
20	16QAM	50	24	16.00	15.91	15.97	17	0
20	16QAM	50	50	15.97	15.91	16.00		
20	16QAM	100	0	15.98	15.94	15.96		
20	64QAM	1	0	15.98	15.96	15.91		
20	64QAM	1	49	15.98	15.99	15.97	17	0
20	64QAM	1	99	15.98	15.99	15.98		
20	64QAM	50	0	15.98	15.91	15.97		
20	64QAM	50	24	15.97	15.92	15.98	17	0
20	64QAM	50	50	15.98	15.98	15.93		
20	64QAM	100	0	15.96	15.96	15.98		
20	256QAM	1	0	15.74	15.55	15.77		
20	256QAM	1	49	15.54	15.75	15.61	17	0
20	256QAM	1	99	15.73	15.72	15.79		
20	256QAM	50	0	15.59	15.63	15.55		
20	256QAM	50	24	15.53	15.60	15.47	17	0
20	256QAM	50	50	15.53	15.62	15.55		
20	256QAM	100	0	15.51	15.56	15.46		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	15.88	15.96	15.94		
15	QPSK	1	37	15.94	15.92	15.92	17	0
15	QPSK	1	74	15.91	15.98	15.96		
15	QPSK	36	0	15.90	15.92	15.94		
15	QPSK	36	20	15.91	15.91	15.96	17	0
15	QPSK	36	39	15.94	15.96	15.99		
15	QPSK	75	0	15.99	15.92	15.91		
15	16QAM	1	0	15.94	15.90	15.92		
15	16QAM	1	37	15.96	15.94	15.94	17	0
15	16QAM	1	74	15.93	15.92	15.91		
15	16QAM	36	0	15.99	15.97	15.92		
15	16QAM	36	20	15.94	15.99	15.98	17	0
15	16QAM	36	39	15.94	15.99	15.95		
15	16QAM	75	0	15.94	15.91	15.90		
15	64QAM	1	0	15.92	15.91	15.95		
15	64QAM	1	37	15.95	15.98	15.92	17	0
15	64QAM	1	74	15.96	15.94	15.99		
15	64QAM	36	0	15.99	15.92	15.91		
15	64QAM	36	20	15.92	15.97	15.95	17	0
15	64QAM	36	39	15.91	15.92	15.98		
15	64QAM	75	0	15.98	15.90	15.90		
15	256QAM	1	0	15.80	15.56	15.73		
15	256QAM	1	37	15.44	15.82	15.57	17	0
15	256QAM	1	74	15.67	15.82	15.75		
15	256QAM	36	0	15.49	15.57	15.64		
15	256QAM	36	20	15.45	15.68	15.43	17	0
15	256QAM	36	39	15.60	15.57	15.46		
15	256QAM	75	0	15.50	15.52	15.49		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	15.93	15.98	15.76		
10	QPSK	1	25	15.95	15.71	15.71	17	0
10	QPSK	1	49	15.97	15.76	15.74		
10	QPSK	25	0	15.76	15.98	15.97		
10	QPSK	25	12	15.72	15.96	15.76	17	0
10	QPSK	25	25	15.77	15.77	15.76		
10	QPSK	50	0	15.78	15.98	15.93		
10	16QAM	1	0	15.70	15.95	15.78		
10	16QAM	1	25	15.98	15.79	15.70	17	0
10	16QAM	1	49	15.76	15.83	15.79		
10	16QAM	25	0	15.75	15.90	15.89		
10	16QAM	25	12	15.73	15.73	15.73	17	0
10	16QAM	25	25	15.75	15.73	15.70		
10	16QAM	50	0	15.73	15.95	15.70		
10	64QAM	1	0	15.71	15.97	15.99		
10	64QAM	1	25	15.76	15.84	15.74	17	0
10	64QAM	1	49	15.75	15.88	15.74		
10	64QAM	25	0	15.79	15.71	15.73		
10	64QAM	25	12	15.73	15.75	15.77	17	0
10	64QAM	25	25	15.70	15.85	15.87		
10	64QAM	50	0	15.71	15.76	15.78		
10	256QAM	1	0	15.65	15.56	15.80		
10	256QAM	1	25	15.56	15.82	15.60	17	0
10	256QAM	1	49	15.75	15.81	15.82		
10	256QAM	25	0	15.64	15.59	15.52		
10	256QAM	25	12	15.51	15.50	15.44	17	0
10	256QAM	25	25	15.58	15.52	15.53		
10	256QAM	50	0	15.61	15.59	15.44		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	15.83	15.94	15.98		
5	QPSK	1	12	15.73	15.74	15.72	17	0
5	QPSK	1	24	15.97	15.76	15.76		
5	QPSK	12	0	15.70	15.99	15.73		
5	QPSK	12	7	15.72	15.72	15.73	17	0
5	QPSK	12	13	15.75	15.74	15.71		
5	QPSK	25	0	15.70	15.70	15.83		
5	16QAM	1	0	15.70	15.85	15.96		
5	16QAM	1	12	15.71	15.78	15.72	17	0
5	16QAM	1	24	15.82	15.84	15.84		
5	16QAM	12	0	15.71	15.93	15.97		
5	16QAM	12	7	15.75	15.74	15.95	17	0
5	16QAM	12	13	15.78	15.77	15.75		
5	16QAM	25	0	15.74	15.99	15.97		
5	64QAM	1	0	15.73	15.97	15.73		
5	64QAM	1	12	15.73	15.65	15.70	17	0
5	64QAM	1	24	15.83	15.87	15.70		
5	64QAM	12	0	15.74	15.73	15.77		
5	64QAM	12	7	15.74	15.76	15.71	17	0
5	64QAM	12	13	15.71	15.72	15.84		
5	64QAM	25	0	15.71	15.72	15.70		
5	256QAM	1	0	15.66	15.50	15.80		
5	256QAM	1	12	15.59	15.72	15.57	17	0
5	256QAM	1	24	15.64	15.71	15.70		
5	256QAM	12	0	15.55	15.53	15.54		
5	256QAM	12	7	15.62	15.70	15.42	17	0
5	256QAM	12	13	15.56	15.72	15.49		
5	256QAM	25	0	15.49	15.55	15.54		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	15.83	15.95	15.75		
3	QPSK	1	8	15.73	15.75	15.76	17	0
3	QPSK	1	14	15.74	15.77	15.73		
3	QPSK	8	0	15.71	15.97	15.74		
3	QPSK	8	4	15.71	15.72	15.73	17	0
3	QPSK	8	7	15.77	15.70	15.70		
3	QPSK	15	0	15.76	15.70	15.86		
3	16QAM	1	0	15.75	15.90	15.71		
3	16QAM	1	8	15.72	15.78	15.84	17	0
3	16QAM	1	14	15.81	15.77	15.79		
3	16QAM	8	0	15.72	15.71	15.75		
3	16QAM	8	4	15.84	15.78	15.76	17	0
3	16QAM	8	7	15.72	15.77	15.78		
3	16QAM	15	0	15.75	15.70	15.70		
3	64QAM	1	0	15.70	15.96	15.75		
3	64QAM	1	8	15.85	15.85	15.79	17	0
3	64QAM	1	14	15.79	15.83	15.75		
3	64QAM	8	0	15.75	15.72	15.77		
3	64QAM	8	4	15.75	15.72	15.75	17	0
3	64QAM	8	7	15.75	15.70	15.85		
3	64QAM	15	0	15.79	15.73	15.77		
3	256QAM	1	0	15.77	15.49	15.75		
3	256QAM	1	8	15.60	15.84	15.65	17	0
3	256QAM	1	14	15.63	15.63	15.72		
3	256QAM	8	0	15.69	15.57	15.62		
3	256QAM	8	4	15.60	15.65	15.57	17	0
3	256QAM	8	7	15.60	15.65	15.56		
3	256QAM	15	0	15.42	15.53	15.41		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	15.90	15.93	15.96		
1.4	QPSK	1	3	15.72	15.71	15.76		
1.4	QPSK	1	5	15.71	15.99	15.94	17	0
1.4	QPSK	3	0	15.83	15.94	15.98		
1.4	QPSK	3	1	15.88	15.95	15.80		
1.4	QPSK	3	3	15.82	15.82	15.86		
1.4	QPSK	6	0	15.75	15.96	15.82	17	0
1.4	16QAM	1	0	15.70	15.85	15.87		
1.4	16QAM	1	3	15.96	15.77	15.77		
1.4	16QAM	1	5	15.71	15.77	15.76	17	0
1.4	16QAM	3	0	15.93	15.83	15.88		
1.4	16QAM	3	1	15.90	15.98	15.87		
1.4	16QAM	3	3	15.92	15.94	15.87		
1.4	16QAM	6	0	15.77	15.72	15.96	17	0
1.4	64QAM	1	0	15.77	15.95	15.99		
1.4	64QAM	1	3	15.60	15.77	15.78		
1.4	64QAM	1	5	15.77	15.81	15.76	17	0
1.4	64QAM	3	0	15.92	15.97	15.94		
1.4	64QAM	3	1	15.97	15.93	15.99		
1.4	64QAM	3	3	15.99	15.91	15.95		
1.4	64QAM	6	0	15.77	15.75	15.77	17	0
1.4	256QAM	1	0	15.73	15.60	15.76		
1.4	256QAM	1	3	15.60	15.78	15.52		
1.4	256QAM	1	5	15.66	15.67	15.77	17	0
1.4	256QAM	3	0	15.67	15.59	15.65		
1.4	256QAM	3	1	15.49	15.59	15.49		
1.4	256QAM	3	3	15.61	15.56	15.65		
1.4	256QAM	6	0	15.55	15.56	15.41	17	0

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				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	15.56	15.61	15.48		
20	QPSK	1	49	15.38	15.37	15.38	16.7	0
20	QPSK	1	99	15.31	15.26	15.24		
20	QPSK	50	0	15.54	15.59	15.46		
20	QPSK	50	24	15.51	15.54	15.46	16.7	0
20	QPSK	50	50	15.50	15.51	15.45		
20	QPSK	100	0	15.52	15.54	15.45		
20	16QAM	1	0	15.50	15.52	15.51		
20	16QAM	1	49	15.48	15.48	15.45	16.7	0
20	16QAM	1	99	15.48	15.40	15.58		
20	16QAM	50	0	15.59	15.50	15.53		
20	16QAM	50	24	15.50	15.50	15.43	16.7	0
20	16QAM	50	50	15.51	15.50	15.43		
20	16QAM	100	0	15.57	15.51	15.44		
20	64QAM	1	0	15.49	15.50	15.45		
20	64QAM	1	49	15.52	15.53	15.57	16.7	0
20	64QAM	1	99	15.58	15.50	15.44		
20	64QAM	50	0	15.50	15.56	15.54		
20	64QAM	50	24	15.52	15.54	15.50	16.7	0
20	64QAM	50	50	15.53	15.51	15.43		
20	64QAM	100	0	15.55	15.50	15.47		
20	256QAM	1	0	15.57	15.52	15.44		
20	256QAM	1	49	15.44	15.55	15.43	16.7	0
20	256QAM	1	99	15.58	15.54	15.32		
20	256QAM	50	0	15.49	15.38	15.38		
20	256QAM	50	24	15.39	15.36	15.29	16.7	0
20	256QAM	50	50	15.43	15.39	15.35		
20	256QAM	100	0	15.46	15.32	15.35		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	15.32	15.43	15.40		
15	QPSK	1	37	15.48	15.38	15.46	16.7	0
15	QPSK	1	74	15.53	15.30	15.36		
15	QPSK	36	0	15.34	15.36	15.48		
15	QPSK	36	20	15.33	15.36	15.45	16.7	0
15	QPSK	36	39	15.55	15.36	15.49		
15	QPSK	75	0	15.34	15.35	15.34		
15	16QAM	1	0	15.39	15.35	15.49		
15	16QAM	1	37	15.45	15.40	15.49	16.7	0
15	16QAM	1	74	15.34	15.36	15.41		
15	16QAM	36	0	15.30	15.33	15.44		
15	16QAM	36	20	15.38	15.41	15.38	16.7	0
15	16QAM	36	39	15.55	15.41	15.43		
15	16QAM	75	0	15.38	15.36	15.42		
15	64QAM	1	0	15.31	15.42	15.41		
15	64QAM	1	37	15.59	15.46	15.40	16.7	0
15	64QAM	1	74	15.56	15.48	15.39		
15	64QAM	36	0	15.30	15.39	15.44		
15	64QAM	36	20	15.33	15.41	15.44	16.7	0
15	64QAM	36	39	15.30	15.34	15.48		
15	64QAM	75	0	15.34	15.37	15.44		
15	256QAM	1	0	15.47	15.45	15.45		
15	256QAM	1	37	15.43	15.48	15.43	16.7	0
15	256QAM	1	74	15.50	15.56	15.22		
15	256QAM	36	0	15.41	15.37	15.32		
15	256QAM	36	20	15.37	15.36	15.36	16.7	0
15	256QAM	36	39	15.39	15.36	15.38		
15	256QAM	75	0	15.44	15.31	15.42		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	15.45	15.30	15.34		
10	QPSK	1	25	15.57	15.45	15.46	16.7	0
10	QPSK	1	49	15.56	15.59	15.38		
10	QPSK	25	0	15.59	15.58	15.38		
10	QPSK	25	12	15.39	15.39	15.49	16.7	0
10	QPSK	25	25	15.35	15.45	15.45		
10	QPSK	50	0	15.38	15.42	15.35		
10	16QAM	1	0	15.32	15.30	15.41		
10	16QAM	1	25	15.51	15.46	15.44	16.7	0
10	16QAM	1	49	15.42	15.49	15.47		
10	16QAM	25	0	15.55	15.55	15.37		
10	16QAM	25	12	15.42	15.49	15.45	16.7	0
10	16QAM	25	25	15.36	15.41	15.47		
10	16QAM	50	0	15.41	15.37	15.43		
10	64QAM	1	0	15.32	15.58	15.40		
10	64QAM	1	25	15.44	15.46	15.41	16.7	0
10	64QAM	1	49	15.40	15.48	15.45		
10	64QAM	25	0	15.30	15.32	15.41		
10	64QAM	25	12	15.40	15.43	15.46	16.7	0
10	64QAM	25	25	15.39	15.46	15.43		
10	64QAM	50	0	15.38	15.43	15.46		
10	256QAM	1	0	15.58	15.45	15.48		
10	256QAM	1	25	15.51	15.46	15.49	16.7	0
10	256QAM	1	49	15.52	15.57	15.23		
10	256QAM	25	0	15.57	15.44	15.37		
10	256QAM	25	12	15.30	15.42	15.27	16.7	0
10	256QAM	25	25	15.51	15.47	15.31		
10	256QAM	50	0	15.55	15.31	15.37		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	15.43	15.54	15.36		
5	QPSK	1	12	15.30	15.49	15.41	16.7	0
5	QPSK	1	24	15.32	15.42	15.46		
5	QPSK	12	0	15.30	15.30	15.35		
5	QPSK	12	7	15.38	15.41	15.49	16.7	0
5	QPSK	12	13	15.34	15.46	15.44		
5	QPSK	25	0	15.37	15.37	15.32		
5	16QAM	1	0	15.59	15.51	15.31		
5	16QAM	1	12	15.54	15.49	15.44	16.7	0
5	16QAM	1	24	15.45	15.49	15.48		
5	16QAM	12	0	15.58	15.57	15.35		
5	16QAM	12	7	15.41	15.41	15.43	16.7	0
5	16QAM	12	13	15.38	15.41	15.49		
5	16QAM	25	0	15.41	15.36	15.38		
5	64QAM	1	0	15.38	15.32	15.47		
5	64QAM	1	12	15.41	15.48	15.46	16.7	0
5	64QAM	1	24	15.47	15.45	15.44		
5	64QAM	12	0	15.33	15.49	15.44		
5	64QAM	12	7	15.41	15.40	15.42	16.7	0
5	64QAM	12	13	15.39	15.47	15.46		
5	64QAM	25	0	15.34	15.36	15.40		
5	256QAM	1	0	15.59	15.49	15.46		
5	256QAM	1	12	15.40	15.34	15.35	16.7	0
5	256QAM	1	24	15.56	15.47	15.33		
5	256QAM	12	0	15.51	15.38	15.28		
5	256QAM	12	7	15.49	15.27	15.34	16.7	0
5	256QAM	12	13	15.40	15.49	15.27		
5	256QAM	25	0	15.39	15.36	15.34		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	15.38	15.59	15.38		
3	QPSK	1	8	15.34	15.43	15.43	16.7	0
3	QPSK	1	14	15.30	15.40	15.45		
3	QPSK	8	0	15.31	15.32	15.35		
3	QPSK	8	4	15.40	15.34	15.48	16.7	0
3	QPSK	8	7	15.56	15.44	15.42		
3	QPSK	15	0	15.36	15.40	15.51		
3	16QAM	1	0	15.56	15.45	15.30		
3	16QAM	1	8	15.35	15.49	15.45	16.7	0
3	16QAM	1	14	15.44	15.41	15.42		
3	16QAM	8	0	15.41	15.34	15.47		
3	16QAM	8	4	15.49	15.42	15.48	16.7	0
3	16QAM	8	7	15.39	15.47	15.43		
3	16QAM	15	0	15.44	15.41	15.35		
3	64QAM	1	0	15.34	15.59	15.39		
3	64QAM	1	8	15.43	15.49	15.41	16.7	0
3	64QAM	1	14	15.48	15.47	15.47		
3	64QAM	8	0	15.34	15.35	15.40		
3	64QAM	8	4	15.42	15.49	15.48	16.7	0
3	64QAM	8	7	15.40	15.47	15.47		
3	64QAM	15	0	15.36	15.39	15.35		
3	256QAM	1	0	15.35	15.51	15.44		
3	256QAM	1	8	15.40	15.30	15.33	16.7	0
3	256QAM	1	14	15.35	15.51	15.41		
3	256QAM	8	0	15.56	15.45	15.45		
3	256QAM	8	4	15.34	15.37	15.21	16.7	0
3	256QAM	8	7	15.41	15.44	15.34		
3	256QAM	15	0	15.55	15.35	15.29		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	15.38	15.54	15.59		
1.4	QPSK	1	3	15.54	15.45	15.46		
1.4	QPSK	1	5	15.51	15.59	15.52	16.7	0
1.4	QPSK	3	0	15.46	15.47	15.48		
1.4	QPSK	3	1	15.43	15.43	15.49		
1.4	QPSK	3	3	15.42	15.46	15.45		
1.4	QPSK	6	0	15.56	15.59	15.47	16.7	0
1.4	16QAM	1	0	15.54	15.47	15.51		
1.4	16QAM	1	3	15.52	15.44	15.48		
1.4	16QAM	1	5	15.51	15.40	15.46	16.7	0
1.4	16QAM	3	0	15.44	15.47	15.42		
1.4	16QAM	3	1	15.43	15.43	15.44		
1.4	16QAM	3	3	15.43	15.42	15.47		
1.4	16QAM	6	0	15.56	15.56	15.59	16.7	0
1.4	64QAM	1	0	15.47	15.41	15.46		
1.4	64QAM	1	3	15.42	15.52	15.44		
1.4	64QAM	1	5	15.46	15.57	15.42	16.7	0
1.4	64QAM	3	0	15.59	15.50	15.59		
1.4	64QAM	3	1	15.58	15.58	15.50		
1.4	64QAM	3	3	15.52	15.58	15.54		
1.4	64QAM	6	0	15.40	15.41	15.42	16.7	0
1.4	256QAM	1	0	15.57	15.58	15.44		
1.4	256QAM	1	3	15.46	15.51	15.45		
1.4	256QAM	1	5	15.54	15.47	15.31	16.7	0
1.4	256QAM	3	0	15.57	15.38	15.29		
1.4	256QAM	3	1	15.41	15.33	15.31		
1.4	256QAM	3	3	15.41	15.30	15.36		
1.4	256QAM	6	0	15.46	15.37	15.33	16.7	0

Band 5 (Cellular Band)
Part 22H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	20.10	19.98	19.96		
10	QPSK	1	25	19.96	19.95	19.94	21.3	0
10	QPSK	1	49	19.92	19.92	19.86		
10	QPSK	25	0	20.04	19.90	19.92		
10	QPSK	25	12	20.08	19.96	19.95		
10	QPSK	25	25	20.06	19.93	19.90	21.3	0
10	QPSK	50	0	20.06	19.95	19.93		
10	16QAM	1	0	19.95	19.98	19.98		
10	16QAM	1	25	19.97	19.94	19.90	21.3	0
10	16QAM	1	49	19.96	19.95	19.89		
10	16QAM	25	0	19.94	19.97	19.93

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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	14.75	14.88	14.93	16	0
20	QPSK	1	49	14.75	14.97	15.00		
20	QPSK	1	99	14.87	15.06	15.11		
20	QPSK	50	0	14.82	15.00	15.03	16	0
20	QPSK	50	24	14.85	15.03	15.09		
20	QPSK	50	50	14.84	15.00	14.94		
20	QPSK	100	0	14.84	15.02	15.07		
20	16QAM	1	0	15.06	15.00	15.03	16	0
20	16QAM	1	49	15.07	14.97	14.96		
20	16QAM	1	99	15.01	15.01	15.00		
20	16QAM	50	0	14.83	15.01	15.04	16	0
20	16QAM	50	24	14.90	15.06	15.06		
20	16QAM	50	50	14.95	14.97	14.97		
20	16QAM	100	0	14.89	15.03	15.01		
20	64QAM	1	0	14.85	15.06	15.02	16	0
20	64QAM	1	49	14.95	14.96	14.94		
20	64QAM	1	99	14.98	14.99	14.98		
20	64QAM	50	0	14.87	15.00	15.04	16	0
20	64QAM	50	24	14.95	15.08	15.07		
20	64QAM	50	50	14.99	15.03	14.94		
20	64QAM	100	0	14.91	15.04	15.02		
20	256QAM	1	0	14.66	14.99	14.89	16	0
20	256QAM	1	49	14.78	14.95	14.82		
20	256QAM	1	99	14.89	14.86	14.80		
20	256QAM	50	0	14.63	14.81	14.68	16	0
20	256QAM	50	24	14.77	14.84	14.80		
20	256QAM	50	50	14.74	14.80	14.76		
20	256QAM	100	0	14.75	14.81	14.66		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	14.79	14.93	14.97	16	0
15	QPSK	1	37	14.67	14.90	14.92		
15	QPSK	1	74	14.72	14.98	14.98		
15	QPSK	36	0	14.72	14.90	14.94	16	0
15	QPSK	36	20	14.86	14.97	14.98		
15	QPSK	36	39	14.88	14.95	14.98		
15	QPSK	75	0	14.82	14.91	14.95		
15	16QAM	1	0	14.92	14.96	14.90	16	0
15	16QAM	1	37	14.90	14.96	14.92		
15	16QAM	1	74	14.95	14.95	14.90		
15	16QAM	36	0	14.82	14.91	14.98	16	0
15	16QAM	36	20	14.85	14.92	14.97		
15	16QAM	36	39	14.90	14.95	14.94		
15	16QAM	75	0	14.88	14.91	14.92		
15	64QAM	1	0	14.89	14.94	14.94	16	0
15	64QAM	1	37	14.99	14.92	14.98		
15	64QAM	1	74	14.95	14.95	14.98		
15	64QAM	36	0	14.87	14.91	14.97	16	0
15	64QAM	36	20	14.91	14.90	14.94		
15	64QAM	36	39	14.92	14.94	14.93		
15	64QAM	75	0	14.85	14.96	14.90		
15	256QAM	1	0	14.67	14.98	14.91	16	0
15	256QAM	1	37	14.82	14.90	14.75		
15	256QAM	1	74	14.94	14.92	14.83		
15	256QAM	36	0	14.66	14.81	14.66	16	0
15	256QAM	36	20	14.77	14.87	14.87		
15	256QAM	36	39	14.68	14.85	14.75		
15	256QAM	75	0	14.70	14.73	14.71		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	14.59	14.84	14.97	16	0
10	QPSK	1	25	14.55	14.89	14.93		
10	QPSK	1	49	14.55	14.97	14.90		
10	QPSK	25	0	14.73	14.98	14.92	16	0
10	QPSK	25	12	14.77	14.92	14.91		
10	QPSK	25	25	14.81	14.95	14.93		
10	QPSK	50	0	14.76	14.90	14.94		
10	16QAM	1	0	14.98	14.96	14.90	16	0
10	16QAM	1	25	14.88	14.92	14.96		
10	16QAM	1	49	14.92	14.94	14.97		
10	16QAM	25	0	14.84	14.98	14.96	16	0
10	16QAM	25	12	14.84	14.95	14.93		
10	16QAM	25	25	14.84	14.89	14.93		
10	16QAM	50	0	14.81	14.91	14.92		
10	64QAM	1	0	14.81	14.91	14.93	16	0
10	64QAM	1	25	14.90	14.89	14.97		
10	64QAM	1	49	14.87	14.98	14.90		
10	64QAM	25	0	14.89	14.98	14.96	16	0
10	64QAM	25	12	14.88	14.96	14.98		
10	64QAM	25	25	14.87	14.91	14.91		
10	64QAM	50	0	14.83	14.98	14.97		
10	256QAM	1	0	14.76	14.96	14.98	16	0
10	256QAM	1	25	14.84	14.93	14.86		
10	256QAM	1	49	14.85	14.93	14.82		
10	256QAM	25	0	14.53	14.87	14.68	16	0
10	256QAM	25	12	14.77	14.76	14.84		
10	256QAM	25	25	14.84	14.90	14.73		
10	256QAM	50	0	14.75	14.76	14.76		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	14.61	14.86	14.96	16	0
5	QPSK	1	12	14.59	14.95	14.91		
5	QPSK	1	24	14.57	14.97	14.97		
5	QPSK	12	0	14.69	14.91	14.90	16	0
5	QPSK	12	7	14.75	14.90	14.93		
5	QPSK	12	13	14.76	14.90	14.93		
5	QPSK	25	0	14.75	14.90	14.91		
5	16QAM	1	0	14.88	14.93	14.93	16	0
5	16QAM	1	12	14.86	14.98	14.97		
5	16QAM	1	24	14.81	14.97	14.93		
5	16QAM	12	0	14.84	14.94	14.96	16	0
5	16QAM	12	7	14.78	14.90	14.94		
5	16QAM	12	13	14.81	14.92	14.94		
5	16QAM	25	0	14.76	14.93	14.97		
5	64QAM	1	0	14.81	14.94	14.98	16	0
5	64QAM	1	12	14.85	14.87	14.95		
5	64QAM	1	24	14.81	14.93	14.97		
5	64QAM	12	0	14.89	14.90	14.98	16	0
5	64QAM	12	7	14.85	14.91	14.98		
5	64QAM	12	13	14.81	14.98	14.82		
5	64QAM	25	0	14.81	14.93	14.96		
5	256QAM	1	0	14.62	14.92	14.95	16	0
5	256QAM	1	12	14.70	14.88	14.90		
5	256QAM	1	24	14.95	14.90	14.81		
5	256QAM	12	0	14.60	14.86	14.65	16	0
5	256QAM	12	7	14.82	14.94	14.80		
5	256QAM	12	13	14.80	14.87	14.82		
5	256QAM	25	0	14.66	14.89	14.76		

Band 12 (700MHz Low Band)
Part 27F(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	20.02	20.03	20.12	21	0
10	QPSK	1	25	20.11	20.13	20.07		
10	QPSK	1	49	20.15	20.28	20.15		
10	QPSK	25	0	20.11	20.23	20.13	21	0
10	QPSK	25	12	20.12	20.25	20.13		
10	QPSK	25	25	20.14	20.27	20.14		
10	QPSK	50	0	20.11	20.23	20.12		
10	16QAM	1	0	19.98	19.97	20.02	21	0
10	16QAM	1	25	19.96	19.95	20.01		
10	16QAM	1	49	20.03	20.01	20.01		
10	16QAM	25	0	20.04	20.04	20.05	21	0
10	16QAM	25	12	20.05	20.06	20.04		
10	16QAM	25	25	20.04	20.03	20.03		
10	16QAM	50	0	20.03	20.03	20.00		
10	64QAM	1	0	19.99	19.93	20.03	21	0
10	64QAM	1	25	19.98	20.01	19.94		
10	64QAM	1	49	20.06	20.00	19.94		
10	64QAM	25	0	19.87	19.80	19.84	20.3	0.7
10	64QAM	25	12	19.91	19.96	19.84		
10	64QAM	25	25	19.98	20.01	19.96		
10	64QAM	50	0	19.91	19.87	19.86		
10	256QAM	1	0	18.33	18.13	18.35	18.8	2.2
10	256QAM	1	25	18.34	18.28	18.20		
10	256QAM	1	49	18.36	18.23	18.26		
10	256QAM	25	0	18.17	18.17	18.23	18.8	2.2
10	256QAM	25	12	18.25	18.26	18.15		
10	256QAM	25	25	18.24	18.15	18.16		
10	256QAM	50	0	18.22	18.20	18.20		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	20.04	20.07	20.13	21	0
5	QPSK	1	12	20.07	20.19	20.02		
5	QPSK	1	24	20.07	20.01	20.14		
5	QPSK	12	0	20.10	20.09	20.12	21	0
5	QPSK	12	7	20.08	20.03	20.15		
5	QPSK	12	13	20.07	20.15	20.09		
5	QPSK	25	0	20.10	20.05	20.05		
5	16QAM	1	0	19.99	19.94	19.93	21	0
5	16QAM	1	12	19.92	19.94	20.07		
5	16QAM	1	24	19.97	19.99	20.06		
5	16QAM	12	0	19.90	19.93	19.95	21	0
5	16QAM	12	7	19.91	20.07	19.97		
5	16QAM	12	13	20.00	20.05	20.18		
5	16QAM	25	0	20.08	19.92	20.04		
5	64QAM	1	0	20.03	20.03	20.04	21	0
5	64QAM	1	12	19.91	20.07	19.90		
5	64QAM	1	24	20.08	20.06	19.90		
5	64QAM	12	0	19.92	19.91	19.95	20.3	0.7
5	64QAM	12	7	19.95	20.01	19.98		
5	64QAM	12	13	19.95	20.00	19.94		
5	64QAM	25	0	19.91	19.97	19.87		
5	256QAM	1	0	18.32	18.13	18.30	18.8	2.2
5	256QAM	1	12	18.37	18.24	18.22		
5	256QAM	1	24	18.29	18.18	18.27		
5	256QAM	12	0	18.27	18.07	18.26	18.8	2.2
5	256QAM	12	7	18.19	18.32	18.21		
5	256QAM	12	13	18.23	18.22	18.26		
5	256QAM	25	0	18.32	18.27	18.12		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	20.04	20.06	20.18	21	0
3	QPSK	1	8	20.09	20.18	20.10		
3	QPSK	1	14	20.02	20.19	20.17		
3	QPSK	8	0	20.09	20.06	20.07	21	0
3	QPSK	8	4	20.07	20.04	20.07		
3	QPSK	8	7	20.02	20.18	20.08		
3	QPSK	15	0	20.03	20.19	20.10		
3	16QAM	1	0	19.97	19.99	19.96	21	0
3	16QAM	1	8	19.95	19.98	20.02		
3	16QAM	1	14	19.95	20.00	19.98		
3	16QAM	8	0	20.08	19.97	19.95	21	0
3	16QAM	8	4	19.93	19.92	19.93		
3	16QAM	8	7	20.03	20.09	20.19		
3	16QAM	15	0	19.91	19.96	20.07		
3	64QAM	1	0	20.03	20.05	20.08	21	0
3	64QAM	1	8	19.98	20.16	19.98		
3	64QAM	1	14	20.02	20.04	19.84		
3	64QAM	8	0	19.90	19.88	19.88	20.3	0.7
3	64QAM	8	4	19.98	19.97	19.89		
3	64QAM	8	7	19.92	19.98	19.87		
3	64QAM	15	0	19.91	19.94	19.90		
3	256QAM	1	0	18.34	18.03	18.28	18.8	2.2
3	256QAM	1	8	18.25	18.32	18.29		
3	256QAM	1	14	18.45	18.33	18.30		
3	256QAM	8	0	18.09	18.25	18.29	18.8	2.2
3	256QAM	8	4	18.17	18.36	18.22		
3	256QAM	8	7	18.27	18.25	18.06		
3	256QAM	15	0	18.29	18.25	18.15		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	19.91	19.96	20.07	21	0
1.4	QPSK	1	3	19.97	20.19	20.03		
1.4	QPSK	1	5	19.91	20.15	20.08		
1.4	QPSK	3	0	19.95	19.98	19.97		
1.4	QPSK	3	1	19.95	19.97	19.97		
1.4	QPSK	3	3	19.98	19.93	19.91		
1.4	QPSK	6	0	19.95	20.12	19.99	21	0
1.4	16QAM	1	0	19.84	19.81	19.89	21	0
1.4	16QAM	1	3	19.83	19.90	19.92		
1.4	16QAM	1	5	19.79	19.88	19.93		
1.4	16QAM	3	0	20.01	20.14	20.11		
1.4	16QAM	3	1	20.02	20.03	20.05		
1.4	16QAM	3	3	19.96	20.06	20.00		
1.4	16QAM	6	0	20.03	20.08	20.18	21	0
1.4	64QAM	1	0	19.96	19.93	20.01	21	0
1.4	64QAM	1	3	19.91	20.08	19.89		
1.4	64QAM	1	5	19.93	19.96	19.81		
1.4	64QAM	3	0	19.91	19.97	19.95		
1.4	64QAM	3	1	19.94	19.93	19.95		
1.4	64QAM	3	3	19.99	19.99	19.95		
1.4	64QAM	6	0	19.90	19.92	19.91	20.3	0.7
1.4	256QAM	1	0	18.26	18.05	18.36	18.8	2.2
1.4	256QAM	1	3	18.44	18.35	18.23		
1.4	256QAM	1	5	18.27	18.32	18.36		
1.4	256QAM	3	0	18.21	18.13	18.22		
1.4	256QAM	3	1	18.21	18.19	18.20		
1.4	256QAM	3	3	18.27	18.13	18.18		
1.4	256QAM	6	0	18.25	18.19	18.28	18.8	2.2

Band 13(700MHz Band)
Part 27F

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					23230			
Frequency (MHz)					782			
10	QPSK	1	0		20.26		21.7	0
10	QPSK	1	25		20.35			
10	QPSK	1	49		20.33			
10	QPSK	25	0		20.31		21.7	0
10	QPSK	25	12		20.33			
10	QPSK	25	25		20.34			
10	QPSK	50	0		20.31			
10	16QAM	1	0		20.26		21.3	0.4
10	16QAM	1	25		20.27			
10	16QAM	1	49		20.29			
10	16QAM	25	0		20.23		21.3	0.4
10	16QAM	25	12		20.21			
10	16QAM	25	25		20.28			
10	16QAM	50	0		20.30			
10	64QAM	1	0		20.03		21.3	0.4
10	64QAM	1	25		20.12			
10	64QAM	1	49		20.16			
10	64QAM	25	0		19.80		20.3	1.4
10	64QAM	25	12		19.79			
10	64QAM	25	25		19.86			
10	64QAM	50	0		19.81			
10	256QAM	1	0		17.96		18.8	2.9
10	256QAM	1	25		17.67			
10	256QAM	1	49		17.55			
10	256QAM	25	0		17.55		18.8	2.9
10	256QAM	25	12		17.42			
10	256QAM	25	25		17.61			
10	256QAM	50	0		17.56			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	20.18	20.28	20.15	21.7	0
5	QPSK	1	12	20.14	20.13	20.11		
5	QPSK	1	24	20.12	20.12	20.12		
5	QPSK	12	0	20.14	20.15	20.13	21.7	0
5	QPSK	12	7	20.14	20.12	20.19		
5	QPSK	12	13	20.14	20.18	20.15		
5	QPSK	25	0	20.15	20.25	20.13		
5	16QAM	1	0	19.91	20.26	20.27	21.3	0.4
5	16QAM	1	12	20.29	20.21	20.24		
5	16QAM	1	24	20.28	20.28	20.25		
5	16QAM	12	0	20.20	20.22	20.19	21.3	0.4
5	16QAM	12	7	20.10	20.19	20.25		
5	16QAM	12	13	20.12	20.28	20.10		
5	16QAM	25	0	20.13	20.13	20.18		
5	64QAM	1	0	20.13	20.12	20.04	21.3	0.4
5	64QAM	1	12	20.16	20.11	20.07		
5	64QAM	1	24	20.23	20.21	20.20		
5	64QAM	12	0	19.77	19.96	19.99	20.3	1.4
5	64QAM	12	7	19.93	19.90	20.00		
5	64QAM	12	13	19.94	19.93	19.94		
5	64QAM	25	0	19.82	19.83	19.91		
5	256QAM	1	0	17.60	17.66	17.59	18.8	2.9
5	256QAM	1	12	17.71	17.70	17.67		
5	256QAM	1	24	17.49	17.56	17.54		
5	256QAM	12	0	17.62	17.47	17.57	18.8	2.9
5	256QAM	12	7	17.43	17.41	17.35		
5	256QAM	12	13	17.70	17.56	17.71		
5	256QAM	25	0	17.66	17.62	17.61		

Band 17 (700MHz Band)
Part 27H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	19.88	19.83	19.85	21	0
10	QPSK	1	25	19.91	19.90	19.90		
10	QPSK	1	49	20.01	19.96	19.91		
10	QPSK	25	0	19.95	19.91	19.83	21	0
10	QPSK	25	12	19.99	19.95	19.88		
10	QPSK	25	25	19.98	19.96	19.85		
10	QPSK	50	0	19.98	19.93	19.87		
10	16QAM	1	0	19.83	19.83	19.83	21	0
10	16QAM	1	25	19.92	19.90	19.92		
10	16QAM	1	49	19.91	19.91	19.91		
10	16QAM	25	0	19.95	19.94	19.99	21	0
10	16QAM	25	12	19.92	19.95	19.91		
10	16QAM	25	25	19.95	19.96	19.98		
10	16QAM	50	0	19.92	19.89	19.90		
10	64QAM	1	0	19.91	19.84	19.91	21	0
10	64QAM	1	25	19.97	19.97	19.88		
10	64QAM	1	49	19.92	19.89	19.88		
10	64QAM	25	0	19.89	19.86	19.84	20.3	0.7
10	64QAM	25	12	19.94	19.96	19.94		
10	64QAM	25	25	19.99	19.97	19.98		
10	64QAM	50	0	19.88	19.90	19.88		
10	256QAM	1	0	18.24	18.06	18.24	18.8	2.2
10	256QAM	1	25	18.12	18.11	18.17		
10	256QAM	1	49	18.19	18.15	18.20		
10	256QAM	25	0	18.03	18.18	17.98	18.8	2.2
10	256QAM	25	12	18.18	18.07	18.10		
10	256QAM	25	25	18.24	18.06	18.19		
10	256QAM	50	0	18.09	18.07	18.10		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	19.96	19.82	19.83	21	0
5	QPSK	1	12	19.87	19.84	19.89		
5	QPSK	1	24	19.87	19.80	19.80		
5	QPSK	12	0	19.80	19.84	19.86	21	0
5	QPSK	12	7	19.80	19.88	19.86		
5	QPSK	12	13	19.82	19.84	19.81		
5	QPSK	25	0	19.81	19.89	19.84		
5	16QAM	1	0	19.84	19.84	19.81	21	0
5	16QAM	1	12	19.82	19.81	19.80		
5	16QAM	1	24	19.86	19.81	19.84		
5	16QAM	12	0	19.85	19.81	19.81	21	0
5	16QAM	12	7	19.84	19.84	19.87		
5	16QAM	12	13	19.84	19.80	19.80		
5	16QAM	25	0	19.89	19.89	19.82		
5	64QAM	1	0	19.83	19.88	19.89	21	0
5	64QAM	1	12	19.87	19.85	19.89		
5	64QAM	1	24	19.86	19.87	19.87		
5	64QAM	12	0	19.81	19.84	19.81	20.3	0.7
5	64QAM	12	7	19.88	19.87	19.80		
5	64QAM	12	13	19.89	19.81	19.84		
5	64QAM	25	0	19.85	19.82	19.86		
5	256QAM	1	0	18.13	17.99	17.90	18.8	2.2
5	256QAM	1	12	18.12	18.19	18.19		
5	256QAM	1	24	18.21	18.22	17.84		
5	256QAM	12	0	18.05	18.07	18.15	18.8	2.2
5	256QAM	12	7	18.15	18.11	18.09		
5	256QAM	12	13	18.07	18.11	17.96		
5	256QAM	25	0	18.01	18.12	18.11		

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	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	16.13	16.16	16.12	17	0
20	QPSK	1	49	16.08	16.15	16.09		
20	QPSK	1	99	16.02	16.06	16.04		
20	QPSK	50	0	16.02	16.11	16.09	17	0
20	QPSK	50	24	16.09	16.13	16.10		
20	QPSK	50	50	16.04	16.12	16.07		
20	QPSK	100	0	16.06	16.11	16.08		
20	16QAM	1	0	15.91	15.94	15.98	17	0
20	16QAM	1	49	15.99	15.92	15.97		
20	16QAM	1	99	15.97	15.98	15.96		
20	16QAM	50	0	15.93	15.97	15.98	17	0
20	16QAM	50	24	15.91	15.99	15.96		
20	16QAM	50	50	15.96	15.90	15.90		
20	16QAM	100	0	15.98	15.91	15.92		
20	64QAM	1	0	15.91	15.91	15.93	17	0
20	64QAM	1	49	15.90	15.92	15.92		
20	64QAM	1	99	15.95	15.95	15.95		
20	64QAM	50	0	15.91	15.92	15.94	17	0
20	64QAM	50	24	15.91	15.90	15.95		
20	64QAM	50	50	15.97	15.99	15.99		
20	64QAM	100	0	15.90	15.94	15.91		
20	256QAM	1	0	15.91	15.90	15.91	17	0
20	256QAM	1	49	15.92	15.89	15.86		
20	256QAM	1	99	15.90	15.91	15.77		
20	256QAM	50	0	15.84	15.79	15.79	17	0
20	256QAM	50	24	15.77	15.89	15.88		
20	256QAM	50	50	15.81	15.81	15.70		
20	256QAM	100	0	15.80	15.74	15.78		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	15.95	15.94	15.98	17	0
15	QPSK	1	37	15.96	15.92	15.97		
15	QPSK	1	74	15.98	15.93	15.93		
15	QPSK	36	0	15.96	15.98	15.91	17	0
15	QPSK	36	20	15.96	15.97	15.96		
15	QPSK	36	39	15.95	15.99	15.93		
15	QPSK	75	0	15.94	15.98	15.97		
15	16QAM	1	0	15.98	15.98	15.98	17	0
15	16QAM	1	37	15.94	15.92	15.96		
15	16QAM	1	74	15.95	15.93	15.97		
15	16QAM	36	0	15.99	15.98	15.96	17	0
15	16QAM	36	20	15.95	15.93	15.98		
15	16QAM	36	39	15.90	15.92	15.92		
15	16QAM	75	0	15.91	15.94	15.94		
15	64QAM	1	0	15.92	15.90	15.94	17	0
15	64QAM	1	37	15.99	15.95	15.89		
15	64QAM	1	74	15.92	15.93	15.91		
15	64QAM	36	0	15.98	15.93	15.92	17	0
15	64QAM	36	20	15.97	15.99	15.98		
15	64QAM	36	39	15.96	15.94	15.93		
15	64QAM	75	0	15.95	15.94	15.96		
15	256QAM	1	0	15.88	15.83	15.91	17	0
15	256QAM	1	37	15.91	15.86	15.94		
15	256QAM	1	74	15.90	15.87	15.84		
15	256QAM	36	0	15.80	15.75	15.86	17	0
15	256QAM	36	20	15.68	15.93	15.70		
15	256QAM	36	39	15.76	15.81	15.71		
15	256QAM	75	0	15.90	15.80	15.87		
Channel				26090	26340	26590	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	15.91	15.93	15.90	17	0
10	QPSK	1	25	15.93	15.93	15.97		
10	QPSK	1	49	15.97	15.90	15.94		
10	QPSK	25	0	15.90	15.98	15.94	17	0
10	QPSK	25	12	15.95	15.98	15.92		
10	QPSK	25	25	15.98	15.99	15.95		
10	QPSK	50	0	15.94	15.98	15.93		
10	16QAM	1	0	15.90	15.97	15.93	17	0
10	16QAM	1	25	15.97	15.95	15.97		
10	16QAM	1	49	15.90	15.92	15.90		
10	16QAM	25	0	15.91	15.90	15.89	17	0
10	16QAM	25	12	15.94	15.93	15.92		
10	16QAM	25	25	15.95	15.94	15.87		
10	16QAM	50	0	15.91	15.90	15.88		
10	64QAM	1	0	15.96	15.86	15.95	17	0
10	64QAM	1	25	15.90	15.90	15.89		
10	64QAM	1	49	15.96	15.91	15.91		
10	64QAM	25	0	15.89	15.87	15.85	17	0
10	64QAM	25	12	15.96	15.98	15.95		
10	64QAM	25	25	15.98	15.98	15.90		
10	64QAM	50	0	15.96	15.94	15.91		
10	256QAM	1	0	15.82	15.86	15.88	17	0
10	256QAM	1	25	15.92	15.98	15.83		
10	256QAM	1	49	15.89	15.82	15.72		
10	256QAM	25	0	15.76	15.70	15.84	17	0
10	256QAM	25	12	15.79	15.79	15.64		
10	256QAM	25	25	15.73	15.82	15.75		
10	256QAM	50	0	15.78	15.78	15.80		
Channel				26065	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	15.90	15.92	15.88	17	0
5	QPSK	1	12	15.90	15.97	15.90		
5	QPSK	1	24	15.94	15.99	15.91		
5	QPSK	12	0	15.99	15.95	15.90	17	0
5	QPSK	12	7	15.91	15.97	15.92		
5	QPSK	12	13	15.96	15.93	15.95		
5	QPSK	25	0	15.93	15.94	15.92		
5	16QAM	1	0	15.97	15.89	15.85	17	0
5	16QAM	1	12	15.96	15.91	15.90		
5	16QAM	1	24	15.94	15.98	15.91		
5	16QAM	12	0	15.96	15.89	15.86	17	0
5	16QAM	12	7	15.92	15.93	15.95		
5	16QAM	12	13	15.98	15.97	15.94		
5	16QAM	25	0	15.94	15.98	15.84		
5	64QAM	1	0	15.91	15.87	15.96	17	0
5	64QAM	1	12	15.95	15.93	15.89		
5	64QAM	1	24	15.94	15.91	15.92		
5	64QAM	12	0	15.92	15.87	15.84	17	0
5	64QAM	12	7	15.92	15.97	15.99		
5	64QAM	12	13	15.97	15.93	15.96		
5	64QAM	25	0	15.91	15.90	15.88		
5	256QAM	1	0	15.98	15.91	15.82	17	0
5	256QAM	1	12	15.86	15.97	15.87		
5	256QAM	1	24	15.93	15.91	15.74		
5	256QAM	12	0	15.85	15.86	15.71	17	0
5	256QAM	12	7	15.75	15.90	15.71		
5	256QAM	12	13	15.81	15.74	15.61		
5	256QAM	25	0	15.74	15.76	15.76		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	15.97	15.88	15.83	17	0
3	QPSK	1	8	15.94	15.96	15.96		
3	QPSK	1	14	15.99	15.99	15.94		
3	QPSK	8	0	15.95	15.98	15.88	17	0
3	QPSK	8	4	15.93	15.93	15.96		
3	QPSK	8	7	15.93	15.99	15.94		
3	QPSK	15	0	15.93	15.94	15.95		
3	16QAM	1	0	15.86	15.86	15.76	17	0
3	16QAM	1	8	15.98	15.90	15.96		
3	16QAM	1	14	15.90	15.93	15.99		
3	16QAM	8	0	15.95	15.94	15.92	17	0
3	16QAM	8	4	15.91	15.99	15.93		
3	16QAM	8	7	15.99	15.92	15.99		
3	16QAM	15	0	15.94	15.99	15.82		
3	64QAM	1	0	15.97	15.78	15.90	17	0
3	64QAM	1	8	15.94	15.93	15.93		
3	64QAM	1	14	15.97	15.95	15.98		
3	64QAM	8	0	15.92	15.82	15.82	17	0
3	64QAM	8	4	15.93	15.94	15.88		
3	64QAM	8	7	15.91	15.90	15.94		
3	64QAM	15	0	15.97	15.90	15.87		
3	256QAM	1	0	15.88	15.98	15.91	17	0
3	256QAM	1	8	15.88	15.96	15.78		
3	256QAM	1	14	15.91	15.99	15.69		
3	256QAM	8	0	15.87	15.82	15.87	17	0
3	256QAM	8	4	15.84	15.81	15.64		
3	256QAM	8	7	15.91	15.75	15.76		
3	256QAM	15	0	15.90	15.70	15.87		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	15.91	15.86	15.78	17	0
1.4	QPSK	1	3	15.97	15.95	15.99		
1.4	QPSK	1	5	15.90	15.92	15.90		
1.4	QPSK	3	0	15.85	15.86	15.85		
1.4	QPSK	3	1	15.87	15.80	15.83		
1.4	QPSK	3	3	15.80	15.83	15.86		
1.4	QPSK	6	0	15.98	15.94	15.89	17	0
1.4	16QAM	1	0	15.87	15.80	15.74	17	0
1.4	16QAM	1	3	15.97	15.94	15.92		
1.4	16QAM	1	5	15.94	15.92	15.93		
1.4	16QAM	3	0	15.84	15.85	15.80		
1.4	16QAM	3	1	15.93	15.84	15.82		
1.4	16QAM	3	3	15.86	15.86	15.80		
1.4	16QAM	6	0	15.96	15.90	15.80	17	0
1.4	64QAM	1	0	15.96	15.89	15.91	17	0
1.4	64QAM	1	3	15.93	15.98	15.99		
1.4	64QAM	1	5	15.91	15.93	15.97		
1.4	64QAM	3	0	15.94	15.88	15.97		
1.4	64QAM	3	1	15.95	15.98	15.98		
1.4	64QAM	3	3	15.95	15.92	15.98		
1.4	64QAM	6	0	15.81	15.99	15.96	17	0
1.4	256QAM	1	0	15.81	15.88	15.89	17	0
1.4	256QAM	1	3	15.94	15.95	15.92		
1.4	256QAM	1	5	15.81	15.83	15.68		
1.4	256QAM	3	0	15.80	15.82	15.71		
1.4	256QAM	3	1	15.86	15.87	15.64		
1.4	256QAM	3	3	15.75	15.89	15.73		
1.4	256QAM	6	0	15.75	15.79	15.79	17	0

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)				821.5	831.5	841.5		
15	QPSK	1	0	19.60	19.60	19.65	20.9	0
15	QPSK	1	37	19.59	19.58	19.56		
15	QPSK	1	74	19.56	19.55	19.46		
15	QPSK	36	0	19.58	19.60	19.58	20.9	0
15	QPSK	36	20	19.59	19.57	19.63		
15	QPSK	36	39	19.57	19.60	19.59		
15	QPSK	75	0	19.57	19.55	19.60		
15	16QAM	1	0	19.47	19.46	19.48	20.9	0
15	16QAM	1	37	19.37	19.41	19.48		
15	16QAM	1	74	19.47	19.46	19.49		
15	16QAM	36	0	19.57	19.54	19.48	20.9	0
15	16QAM	36	20	19.41	19.51	19.54		
15	16QAM	36	39	19.60	19.54	19.56		
15	16QAM	75	0	19.42	19.52	19.56		
15	64QAM	1	0	19.42	19.43	19.54	20.9	0
15	64QAM	1	37	19.43	19.60	19.59		
15	64QAM	1	74	19.42	19.56	19.55		
15	64QAM	36	0	19.34	19.41	19.40	20.3	0.6
15	64QAM	36	20	19.40	19.25	19.49		
15	64QAM	36	39	19.39	19.43	19.48		
15	64QAM	75	0	19.39	19.29	19.41		
15	256QAM	1	0	17.54	17.64	17.51	18.8	2.1
15	256QAM	1	37	17.48	17.57	17.51		
15	256QAM	1	74	17.60	17.51	17.42		
15	256QAM	36	0	17.49	17.41	17.48	18.8	2.1
15	256QAM	36	20	17.43	17.39	17.30		
15	256QAM	36	39	17.41	17.41	17.32		
15	256QAM	75	0	17.47	17.36	17.34		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	19.45	19.59	19.57	20.9	0
10	QPSK	1	25	19.58	19.52	19.52		
10	QPSK	1	49	19.54	19.55	19.45		
10	QPSK	25	0	19.59	19.48	19.60	20.9	0
10	QPSK	25	12	19.45	19.54	19.49		
10	QPSK	25	25	19.44	19.52	19.43		
10	QPSK	50	0	19.45	19.41	19.56		
10	16QAM	1	0	19.45	19.44	19.47	20.9	0
10	16QAM	1	25	19.50	19.53	19.57		
10	16QAM	1	49	19.44	19.56	19.47		
10	16QAM	25	0	19.41	19.58	19.48	20.9	0
10	16QAM	25	12	19.50	19.58	19.42		
10	16QAM	25	25	19.46	19.60	19.55		
10	16QAM	50	0	19.45	19.52	19.57		
10	64QAM	1	0	19.47	19.46	19.45	20.9	0
10	64QAM	1	25	19.45	19.47	19.49		
10	64QAM	1	49	19.50	19.43	19.42		
10	64QAM	25	0	19.39	19.44	19.42	20.3	0.6
10	64QAM	25	12	19.59	19.34	19.53		
10	64QAM	25	25	19.44	19.49	19.44		
10	64QAM	50	0	19.48	19.37	19.45		
10	256QAM	1	0	17.49	17.69	17.43	18.8	2.1
10	256QAM	1	25	17.54	17.47	17.50		
10	256QAM	1	49	17.53	17.58	17.32		
10	256QAM	25	0	17.49	17.50	17.46	18.8	2.1
10	256QAM	25	12	17.53	17.32	17.37		
10	256QAM	25	25	17.39	17.41	17.42		
10	256QAM	50	0	17.42	17.29	17.38		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	19.53	19.58	19.57	20.9	0
5	QPSK	1	12	19.50	19.57	19.52		
5	QPSK	1	24	19.53	19.58	19.51		
5	QPSK	12	0	19.42	19.49	19.41	20.9	0
5	QPSK	12	7	19.43	19.43	19.48		
5	QPSK	12	13	19.44	19.55	19.44		
5	QPSK	25	0	19.46	19.59	19.42		
5	16QAM	1	0	19.56	19.56	19.54	20.9	0
5	16QAM	1	12	19.51	19.54	19.54		
5	16QAM	1	24	19.49	19.60	19.47		
5	16QAM	12	0	19.45	19.45	19.55	20.9	0
5	16QAM	12	7	19.57	19.42	19.45		
5	16QAM	12	13	19.41	19.42	19.59		
5	16QAM	25	0	19.40	19.59	19.41		
5	64QAM	1	0	19.45	19.41	19.41	20.9	0
5	64QAM	1	12	19.41	19.41	19.40		
5	64QAM	1	24	19.42	19.47	19.48		
5	64QAM	12	0	19.47	19.52	19.50	20.3	0.6
5	64QAM	12	7	19.50	19.50	19.53		
5	64QAM	12	13	19.49	19.53	19.46		
5	64QAM	25	0	19.43	19.40	19.46		
5	256QAM	1	0	17.51	17.55	17.59	18.8	2.1
5	256QAM	1	12	17.41	17.63	17.54		
5	256QAM	1	24	17.60	17.41	17.45		
5	256QAM	12	0	17.47	17.44	17.48	18.8	2.1
5	256QAM	12	7	17.45	17.42	17.34		
5	256QAM	12	13	17.35	17.47	17.29		
5	256QAM	25	0	17.56	17.40	17.33		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	19.50	19.58	19.41	20.9	0
3	QPSK	1	8	19.53	19.41	19.56		
3	QPSK	1	14	19.58	19.59	19.49		
3	QPSK	8	0	19.43	19.41	19.42	20.9	0
3	QPSK	8	4	19.45	19.44	19.46		
3	QPSK	8	7	19.45	19.54	19.58		
3	QPSK	15	0	19.44	19.45	19.43		
3	16QAM	1	0	19.55	19.52	19.42	20.9	0
3	16QAM	1	8	19.56	19.59	19.41		
3	16QAM	1	14	19.44	19.55	19.49		
3	16QAM	8	0	19.49	19.40	19.43	20.9	0
3	16QAM	8	4	19.54	19.46	19.44		
3	16QAM	8	7	19.49	19.45	19.60		
3	16QAM	15	0	19.47	19.58	19.47		
3	64QAM	1	0	19.47	19.44	19.43	20.9	0
3	64QAM	1	8	19.43	19.44	19.40		
3	64QAM	1	14	19.43	19.44	19.45		
3	64QAM	8	0	19.43	19.46	19.49	20.3	0.6
3	64QAM	8	4	19.54	19.48	19.53		
3	64QAM	8	7	19.48	19.51	19.47		
3	64QAM	15	0	19.44	19.36	19.50		
3	256QAM	1	0	17.60	17.58	17.42	18.8	2.1
3	256QAM	1	8	17.49	17.48	17.57		
3	256QAM	1	14	17.69	17.52	17.32		
3	256QAM	8	0	17.59	17.44	17.56	18.8	2.1
3	256QAM	8	4	17.46	17.37	17.37		
3	256QAM	8	7	17.48	17.51	17.24		
3	256QAM	15	0	17.52	17.33	17.30		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	19.46	19.46	19.51	20.9	0
1.4	QPSK	1	3	19.57	19.58	19.49		
1.4	QPSK	1	5	19.47	19.50	19.38		
1.4	QPSK	3	0	19.58	19.55	19.57		
1.4	QPSK	3	1	19.50	19.56	19.55		
1.4	QPSK	3	3	19.57	19.48	19.56		
1.4	QPSK	6	0	19.56	19.54	19.52	20.9	0
1.4	16QAM	1	0	19.52	19.43	19.47	20.9	0
1.4	16QAM	1	3	19.45	19.49	19.49		
1.4	16QAM	1	5	19.53	19.51	19.55		
1.4	16QAM	3	0	19.57	19.54	19.56		
1.4	16QAM	3	1	19.55	19.58	19.52		

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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					27710			
Frequency (MHz)					2310			
10	QPSK	1	0		15.99		17.3	0
10	QPSK	1	25		15.90			
10	QPSK	1	49		15.84			
10	QPSK	25	0		15.92		17.3	0
10	QPSK	25	12		15.98			
10	QPSK	25	25		15.97			
10	QPSK	50	0		15.94			
10	16QAM	1	0		15.88		17.3	0
10	16QAM	1	25		15.89			
10	16QAM	1	49		15.91			
10	16QAM	25	0		15.94		17.3	0
10	16QAM	25	12		15.88			
10	16QAM	25	25		15.87			
10	16QAM	50	0		15.86			
10	64QAM	1	0		15.88		17.3	0
10	64QAM	1	25		15.89			
10	64QAM	1	49		15.91			
10	64QAM	25	0		15.96		17.3	0
10	64QAM	25	12		15.91			
10	64QAM	25	25		15.93			
10	64QAM	50	0		15.97			
10	256QAM	1	0		15.78		17	0.3
10	256QAM	1	25		15.73			
10	256QAM	1	49		15.84			
10	256QAM	25	0		15.68		17	0.3
10	256QAM	25	12		15.83			
10	256QAM	25	25		15.76			
10	256QAM	50	0		15.69			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	15.63	15.65	15.72	17.3	0
5	QPSK	1	12	15.62	15.65	15.64		
5	QPSK	1	24	15.71	15.68	15.64		
5	QPSK	12	0	15.68	15.73	15.74	17.3	0
5	QPSK	12	7	15.65	15.65	15.77		
5	QPSK	12	13	15.64	15.74	15.63		
5	QPSK	25	0	15.75	15.65	15.75		
5	16QAM	1	0	15.66	15.74	15.77	17.3	0
5	16QAM	1	12	15.62	15.68	15.65		
5	16QAM	1	24	15.62	15.72	15.70		
5	16QAM	12	0	15.74	15.61	15.61	17.3	0
5	16QAM	12	7	15.65	15.71	15.73		
5	16QAM	12	13	15.74	15.65	15.71		
5	16QAM	25	0	15.69	15.65	15.70		
5	64QAM	1	0	15.61	15.62	15.67	17.3	0
5	64QAM	1	12	15.67	15.68	15.67		
5	64QAM	1	24	15.63	15.76	15.75		
5	64QAM	12	0	15.76	15.65	15.63	17.3	0
5	64QAM	12	7	15.76	15.77	15.77		
5	64QAM	12	13	15.61	15.75	15.77		
5	64QAM	25	0	15.61	15.75	15.65		
5	256QAM	1	0	15.67	15.60	15.70	17	0.3
5	256QAM	1	12	15.71	15.64	15.63		
5	256QAM	1	24	15.74	15.65	15.68		
5	256QAM	12	0	15.64	15.69	15.75	17	0.3
5	256QAM	12	7	15.65	15.65	15.75		
5	256QAM	12	13	15.74	15.77	15.68		
5	256QAM	25	0	15.60	15.75	15.65		

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)				1720	1745	1770		
20	QPSK	1	0	15.57	15.67	15.66	16.7	0
20	QPSK	1	49	15.52	15.57	15.59		
20	QPSK	1	99	15.43	15.46	15.45		
20	QPSK	50	0	15.62	15.63	15.59	16.7	0
20	QPSK	50	24	15.58	15.52	15.58		
20	QPSK	50	50	15.61	15.55	15.55		
20	QPSK	100	0	15.56	15.61	15.51		
20	16QAM	1	0	15.52	15.61	15.61	16.7	0
20	16QAM	1	49	15.45	15.45	15.51		
20	16QAM	1	99	15.62	15.63	15.57		
20	16QAM	50	0	15.47	15.51	15.54	16.7	0
20	16QAM	50	24	15.52	15.47	15.58		
20	16QAM	50	50	15.47	15.48	15.51		
20	16QAM	100	0	15.49	15.45	15.54		
20	64QAM	1	0	15.38	15.44	15.37	16.7	0
20	64QAM	1	49	15.30	15.42	15.37		
20	64QAM	1	99	15.56	15.55	15.48		
20	64QAM	50	0	15.47	15.52	15.52	16.7	0
20	64QAM	50	24	15.53	15.47	15.59		
20	64QAM	50	50	15.63	15.65	15.56		
20	64QAM	100	0	15.59	15.62	15.58		
20	256QAM	1	0	15.57	15.57	15.59	16.7	0
20	256QAM	1	49	15.58	15.43	15.57		
20	256QAM	1	99	15.55	15.40	15.55		
20	256QAM	50	0	15.39	15.40	15.40	16.7	0
20	256QAM	50	24	15.51	15.42	15.42		
20	256QAM	50	50	15.45	15.45	15.46		
20	256QAM	100	0	15.48	15.39	15.48		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	15.51	15.59	15.34	16.7	0
15	QPSK	1	37	15.49	15.35	15.58		
15	QPSK	1	74	15.47	15.47	15.48		
15	QPSK	36	0	15.55	15.31	15.53	16.7	0
15	QPSK	36	20	15.59	15.59	15.33		
15	QPSK	36	39	15.30	15.30	15.54		
15	QPSK	75	0	15.54	15.57	15.57		
15	16QAM	1	0	15.41	15.54	15.53	16.7	0
15	16QAM	1	37	15.41	15.49	15.41		
15	16QAM	1	74	15.35	15.58	15.50		
15	16QAM	36	0	15.43	15.44	15.51	16.7	0
15	16QAM	36	20	15.49	15.51	15.33		
15	16QAM	36	39	15.46	15.47	15.48		
15	16QAM	75	0	15.47	15.51	15.32		
15	64QAM	1	0	15.28	15.25	15.44	16.7	0
15	64QAM	1	37	15.27	15.45	15.45		
15	64QAM	1	74	15.53	15.50	15.48		
15	64QAM	36	0	15.45	15.51	15.51	16.7	0
15	64QAM	36	20	15.56	15.57	15.38		
15	64QAM	36	39	15.34	15.36	15.55		
15	64QAM	75	0	15.59	15.32	15.30		
15	256QAM	1	0	15.49	15.35	15.51	16.7	0
15	256QAM	1	37	15.32	15.39	15.58		
15	256QAM	1	74	15.55	15.52	15.31		
15	256QAM	36	0	15.46	15.45	15.40	16.7	0
15	256QAM	36	20	15.45	15.33	15.41		
15	256QAM	36	39	15.35	15.37	15.47		
15	256QAM	75	0	15.47	15.41	15.53		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	15.49	15.53	15.55	16.7	0
10	QPSK	1	25	15.53	15.56	15.51		
10	QPSK	1	49	15.51	15.42	15.37		
10	QPSK	25	0	15.51	15.58	15.50	16.7	0
10	QPSK	25	12	15.40	15.47	15.47		
10	QPSK	25	25	15.58	15.58	15.51		
10	QPSK	50	0	15.54	15.30	15.49		
10	16QAM	1	0	15.49	15.55	15.46	16.7	0
10	16QAM	1	25	15.45	15.47	15.38		
10	16QAM	1	49	15.39	15.40	15.56		
10	16QAM	25	0	15.42	15.40	15.45	16.7	0
10	16QAM	25	12	15.51	15.41	15.53		
10	16QAM	25	25	15.42	15.47	15.43		
10	16QAM	50	0	15.47	15.45	15.47		
10	64QAM	1	0	15.36	15.29	15.33	16.7	0
10	64QAM	1	25	15.42	15.45	15.42		
10	64QAM	1	49	15.32	15.51	15.58		
10	64QAM	25	0	15.41	15.48	15.44	16.7	0
10	64QAM	25	12	15.52	15.45	15.56		
10	64QAM	25	25	15.32	15.34	15.50		
10	64QAM	50	0	15.58	15.40	15.54		
10	256QAM	1	0	15.37	15.58	15.40	16.7	0
10	256QAM	1	25	15.36	15.31	15.51		
10	256QAM	1	49	15.35	15.30	15.56		
10	256QAM	25	0	15.38	15.32	15.50	16.7	0
10	256QAM	25	12	15.44	15.44	15.39		
10	256QAM	25	25	15.36	15.51	15.43		
10	256QAM	50	0	15.39	15.46	15.49		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	15.45	15.48	15.49	16.7	0
5	QPSK	1	12	15.40	15.33	15.57		
5	QPSK	1	24	15.52	15.44	15.43		
5	QPSK	12	0	15.55	15.55	15.50	16.7	0
5	QPSK	12	7	15.40	15.55	15.58		
5	QPSK	12	13	15.40	15.58	15.50		
5	QPSK	25	0	15.54	15.33	15.49		
5	16QAM	1	0	15.38	15.44	15.40	16.7	0
5	16QAM	1	12	15.46	15.44	15.35		
5	16QAM	1	24	15.30	15.35	15.51		
5	16QAM	12	0	15.45	15.43	15.45	16.7	0
5	16QAM	12	7	15.48	15.51	15.40		
5	16QAM	12	13	15.48	15.45	15.46		
5	16QAM	25	0	15.47	15.53	15.55		
5	64QAM	1	0	15.36	15.34	15.33	16.7	0
5	64QAM	1	12	15.31	15.48	15.42		
5	64QAM	1	24	15.31	15.53	15.58		
5	64QAM	12	0	15.49	15.48	15.44	16.7	0
5	64QAM	12	7	15.54	15.58	15.34		
5	64QAM	12	13	15.37	15.38	15.52		
5	64QAM	25	0	15.57	15.36	15.52		
5	256QAM	1	0	15.52	15.56	15.56	16.7	0
5	256QAM	1	12	15.37	15.31	15.32		
5	256QAM	1	24	15.40	15.50	15.35		
5	256QAM	12	0	15.39	15.44	15.42	16.7	0
5	256QAM	12	7	15.53	15.34	15.46		
5	256QAM	12	13	15.36	15.52	15.50		
5	256QAM	25	0	15.54	15.34	15.55		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	15.46	15.49	15.49	16.7	0
3	QPSK	1	8	15.30	15.39	15.30		
3	QPSK	1	14	15.57	15.50	15.48		
3	QPSK	8	0	15.30	15.57	15.49	16.7	0
3	QPSK	8	4	15.40	15.55	15.56		
3	QPSK	8	7	15.40	15.58	15.53		
3	QPSK	15	0	15.54	15.34	15.52		
3	16QAM	1	0	15.35	15.44	15.39	16.7	0
3	16QAM	1	8	15.51	15.49	15.37		
3	16QAM	1	14	15.38	15.36	15.57		
3	16QAM	8	0	15.54	15.47	15.47	16.7	0
3	16QAM	8	4	15.56	15.56	15.40		
3	16QAM	8	7	15.51	15.52	15.53		
3	16QAM	15	0	15.48	15.54	15.55		
3	64QAM	1	0	15.29	15.30	15.33	16.7	0
3	64QAM	1	8	15.44	15.48	15.47		
3	64QAM	1	14	15.31	15.57	15.40		
3	64QAM	8	0	15.50	15.47	15.46	16.7	0
3	64QAM	8	4	15.51	15.55	15.30		
3	64QAM	8	7	15.36	15.38	15.54		
3	64QAM	15	0	15.57	15.34	15.58		
3	256QAM	1	0	15.58	15.52	15.32	16.7	0
3	256QAM	1	8	15.56	15.36	15.52		
3	256QAM	1	14	15.34	15.57	15.30		
3	256QAM	8	0	15.31	15.40	15.40	16.7	0
3	256QAM	8	4	15.58	15.46	15.42		
3	256QAM	8	7	15.43	15.42	15.45		
3	256QAM	15	0	15.49	15.41	15.44		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	15.43	15.48	15.40	16.7	0
1.4	QPSK	1	3	15.51	15.58	15.52		
1.4	QPSK	1	5	15.45	15.41	15.42		
1.4	QPSK	3	0	15.45	15.41	15.46		
1.4	QPSK	3	1	15.47	15.42	15.48		
1.4	QPSK	3	3	15.48	15.48	15.41		
1.4	QPSK	6	0	15.42	15.57	15.41	16.7	0
1.4	16QAM	1	0	15.26	15.41	15.30	16.7	0
1.4	16QAM	1	3	15.45	15.40	15.36		
1.4	16QAM	1	5	15.34	15.55	15.47		
1.4	16QAM	3	0	15.46	15.49	15.44		
1.4	16QAM	3	1	15.46	15.44	15.45		
1.4	16QAM	3	3	15.44	15.42	15.45		
1.4	16QAM	6	0	15.43	15.50	15.45	16.7	0
1.4	64QAM	1	0	15.50	15.47	15.48	16.7	0
1.4	64QAM	1	3	15.55	15.30	15.31		
1.4	64QAM	1	5	15.36	15.31	15.31		
1.4	64QAM	3	0	15.41	15.46	15.49		
1.4	64QAM	3	1	15.47	15.48	15.44		
1.4	64QAM	3	3	15.45	15.40	15.40		
1.4	64QAM	6	0	15.42	15.39	15.41	16.7	0
1.4	256QAM	1	0	15.32	15.54	15.53	16.7	0
1.4	256QAM	1	3	15.37	15.57	15.50		
1.4	256QAM	1	5	15.55	15.37	15.56		
1.4	256QAM	3	0	15.44	15.38	15.33		
1.4	256QAM	3	1	15.44	15.41	15.41		
1.4	256QAM	3	3	15.47	15.35	15.55		
1.4	256QAM	6	0	15.38	15.49	15.47	16.7	0

Band 71

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	683	688		
20	QPSK	1	0	20.95	20.99	20.91	21.9	0
20	QPSK	1	49	20.80	20.72	20.64		
20	QPSK	1	99	20.89	20.82	20.77		
20	QPSK	50	0	20.83	20.85	20.72	21.9	0
20	QPSK	50	24	20.82	20.95	20.91		
20	QPSK	50	50	20.89	20.93	20.84		
20	QPSK	100	0	20.91	20.94	20.90		
20	16QAM	1	0	20.87	20.82	20.95	21.9	0
20	16QAM	1	49	20.89	20.93	20.88		
20	16QAM	1	99	20.81	20.95	20.86		
20	16QAM	50	0	20.94	20.91	20.96	21.3	0.6
20	16QAM	50	24	20.89	20.86	20.82		
20	16QAM	50	50	20.86	20.83	20.77		
20	16QAM	100	0	20.82	20.88	20.74		
20	64QAM	1	0	20.73	20.83	20.82	21.3	0.6
20	64QAM	1	49	20.72	20.74	20.66		
20	64QAM	1	99	20.68	20.70	20.61		
20	64QAM	50	0	19.95	20.03	20.00	20.3	1.6
20	64QAM	50	24	19.81	19.88	19.93		
20	64QAM	50	50	19.95	19.86	19.78		
20	64QAM	100	0	19.98	19.96	19.94		
20	256QAM	1	0	18.14	18.09	18.16	18.8	3.1
20	256QAM	1	49	18.07	18.15	18.17		
20	256QAM	1	99	18.12	18.10	18.06		
20	256QAM	50	0	18.05	18.08	18.03	18.8	3.1
20	256QAM	50	24	18.02	18.02	18.04		
20	256QAM	50	50	18.02	18.01	17.93		
20	256QAM	100	0	18.07	18.04	18.13		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	20.72	20.75	20.66	21.9	0
15	QPSK	1	37	20.62	20.79	20.65		
15	QPSK	1	74	20.78	20.73	20.70		
15	QPSK	36	0	20.78	20.85	20.87	21.9	0
15	QPSK	36	20	20.68	20.88	20.88		
15	QPSK	36	39	20.80	20.78	20.78		
15	QPSK	75	0	20.35	20.51	20.45		
15	16QAM	1	0	20.79	20.69	20.72	21.9	0
15	16QAM	1	37	20.64	20.66	20.78		
15	16QAM	1	74	20.77	20.76	20.77		
15	16QAM	36	0	20.90	20.85	20.75	21.3	0.6
15	16QAM	36	20	20.64	20.62	20.68		
15	16QAM	36	39	20.68	20.72	20.68		
15	16QAM	75	0	20.42	20.60	20.28		
15	64QAM	1	0	20.80	20.68	20.84	21.3	0.6
15	64QAM	1	37	20.86	20.84	20.80		
15	64QAM	1	74	20.73	20.64	20.85		
15	64QAM	36	0	19.71	19.95	19.93	20.3	1.6
15	64QAM	36	20	20.06	19.84	19.92		
15	64QAM	36	39	19.72	19.92	19.80		
15	64QAM	75	0	20.03	19.90	19.92		
15	256QAM	1	0	18.18	17.98	18.06	18.8	3.1
15	256QAM	1	37	18.11	18.18	18.15		
15	256QAM	1	74	18.17	18.03	18.17		
15	256QAM	36	0	17.89	17.99	18.02	18.8	3.1
15	256QAM	36	20	17.98	18.18	17.83		
15	256QAM	36	39	17.97	18.08	18.00		
15	256QAM	75	0	18.13	18.14	18.21		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	20.75	20.77	20.64	21.9	0
10	QPSK	1	25	20.64	20.73	20.90		
10	QPSK	1	49	20.78	20.70	20.80		
10	QPSK	25	0	20.76	20.86	20.66	21.9	0
10	QPSK	25	12	20.70	20.62	20.64		
10	QPSK	25	25	20.74	20.81	20.79		
10	QPSK	50	0	20.42	20.51	20.45		
10	16QAM	1	0	20.77	20.63	20.78	21.9	0
10	16QAM	1	25	20.65	20.76	20.72		
10	16QAM	1	49	20.74	20.71	20.78		
10	16QAM	25	0	20.86	20.62	20.74	21.3	0.6
10	16QAM	25	12	20.68	20.65	20.62		
10	16QAM	25	25	20.69	20.75	20.66		
10	16QAM	50	0	20.40	20.55	20.30		
10	64QAM	1	0	20.89	20.76	20.84	21.3	0.6
10	64QAM	1	25	20.63	20.85	20.73		
10	64QAM	1	49	20.76	20.70	20.63		
10	64QAM	25	0	19.76	20.02	19.99	20.3	1.6
10	64QAM	25	12	20.12	19.83	19.93		
10	64QAM	25	25	19.76	19.90	19.83		
10	64QAM	50	0	20.03	19.95	19.86		
10	256QAM	1	0	18.01	17.97	18.04	18.8	3.1
10	256QAM	1	25	18.04	18.30	18.05		
10	256QAM	1	49	18.18	18.06	18.14		
10	256QAM	25	0	17.85	18.05	18.05	18.8	3.1
10	256QAM	25	12	18.11	18.01	17.94		
10	256QAM	25	25	17.95	18.09	17.95		
10	256QAM	50	0	17.99	17.97	18.23		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	20.72	20.74	20.66	21.9	0
5	QPSK	1	12	20.64	20.78	20.62		
5	QPSK	1	24	20.70	20.73	20.75		
5	QPSK	12	0	20.85	20.90	20.89	21.9	0
5	QPSK	12	7	20.66	20.88	20.67		
5	QPSK	12	13	20.76	20.82	20.70		
5	QPSK	25	0	20.39	20.48	20.45		
5	16QAM	1	0	20.72	20.67	20.71	21.9	0
5	16QAM	1	12	20.61	20.72	20.79		
5	16QAM	1	24	20.74	20.73	20.75		
5	16QAM	12	0	20.62	20.89	20.81	21.3	0.6
5	16QAM	12	7	20.63	20.63	20.62		
5	16QAM	12	13	20.61	20.78	20.64		
5	16QAM	25	0	20.44	20.55	20.28		
5	64QAM	1	0	20.88	20.72	20.82	21.3	0.6
5	64QAM	1	12	20.87	20.84	20.73		
5	64QAM	1	24	20.79	20.70	20.63		
5	64QAM	12	0	19.72	20.01	20.02	20.3	1.6
5	64QAM	12	7	20.07	19.75	19.97		
5	64QAM	12	13	19.77	19.88	19.81		
5	64QAM	25	0	20.09	19.91	19.90		
5	256QAM	1	0	18.19	18.00	18.16	18.8	3.1
5	256QAM	1	12	18.11	18.15	18.05		
5	256QAM	1	24	18.17	18.00	18.17		
5	256QAM	12	0	17.83	18.00	18.06	18.8	3.1
5	256QAM	12	7	18.09	18.15	17.88		
5	256QAM	12	13	17.95	17.98	18.09		
5	256QAM	25	0	17.97	18.09	18.08		

Band 38(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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	17.30	17.10	17.20		
20	QPSK	1	49	17.26	17.09	17.18	17.9	0
20	QPSK	1	99	17.28	16.82	17.14		
20	QPSK	50	0	17.27	17.01	17.12		
20	QPSK	50	24	17.28	17.07	17.16	17.9	0
20	QPSK	50	50	17.25	17.02	17.15		
20	QPSK	100	0	17.27	17.05	17.15		
20	16QAM	1	0	17.12	16.98	16.99		
20	16QAM	1	49	17.11	16.92	16.96	17.9	0
20	16QAM	1	99	17.15	17.02	17.03		
20	16QAM	50	0	17.09	16.92	17.06		
20	16QAM	50	24	17.22	17.02	17.15	17.9	0
20	16QAM	50	50	17.07	16.96	17.07		
20	16QAM	100	0	17.20	17.05	16.99		
20	64QAM	1	0	17.21	17.02	17.05		
20	64QAM	1	49	17.19	16.96	16.88	17.9	0
20	64QAM	1	99	16.87	17.05	17.00		
20	64QAM	50	0	16.86	17.01	17.09		
20	64QAM	50	24	16.91	16.77	17.07	17.8	0.1
20	64QAM	50	50	17.15	16.91	17.04		
20	64QAM	100	0	17.22	16.92	16.76		
20	256QAM	1	0	15.57	15.51	15.69		
20	256QAM	1	49	15.41	15.32	15.57	16.3	1.6
20	256QAM	1	99	15.48	15.60	15.41		
20	256QAM	50	0	15.67	15.86	15.75		
20	256QAM	50	24	15.85	15.87	15.81	16.3	1.6
20	256QAM	50	50	15.82	15.82	15.83		
20	256QAM	100	0	15.69	15.79	15.76		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	17.29	17.17	17.11		
15	QPSK	1	37	17.25	17.14	17.02	17.9	0
15	QPSK	1	74	17.26	16.85	17.28		
15	QPSK	36	0	17.09	17.13	17.17		
15	QPSK	36	20	17.29	17.16	17.13	17.9	0
15	QPSK	36	39	17.25	17.11	17.14		
15	QPSK	75	0	17.09	17.07	17.17		
15	16QAM	1	0	17.18	17.08	16.96		
15	16QAM	1	37	17.13	16.73	16.79	17.9	0
15	16QAM	1	74	17.18	16.99	17.05		
15	16QAM	36	0	17.17	16.87	17.03		
15	16QAM	36	20	17.28	17.06	17.08	17.9	0
15	16QAM	36	39	17.28	16.88	17.14		
15	16QAM	75	0	17.15	17.11	17.02		
15	64QAM	1	0	17.04	17.09	16.93		
15	64QAM	1	37	17.26	17.00	16.88	17.9	0
15	64QAM	1	74	16.94	17.06	17.04		
15	64QAM	36	0	16.98	17.00	17.20		
15	64QAM	36	20	16.82	16.77	17.03	17.8	0.1
15	64QAM	36	39	17.21	16.87	17.01		
15	64QAM	75	0	17.21	16.91	16.77		
15	256QAM	1	0	15.53	15.58	15.60		
15	256QAM	1	37	15.45	15.42	15.50	16.3	1.6
15	256QAM	1	74	15.50	15.50	15.48		
15	256QAM	36	0	15.77	15.81	15.77		
15	256QAM	36	20	15.81	15.79	15.84	16.3	1.6
15	256QAM	36	39	15.79	15.81	15.80		
15	256QAM	75	0	15.78	15.73	15.81		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	17.12	17.19	17.12		
10	QPSK	1	25	17.20	17.20	17.29	17.9	0
10	QPSK	1	49	17.18	16.92	17.25		
10	QPSK	25	0	17.03	17.11	17.15		
10	QPSK	25	12	17.29	17.11	17.24	17.9	0
10	QPSK	25	25	17.22	17.07	17.25		
10	QPSK	50	0	17.08	16.97	17.23		
10	16QAM	1	0	17.06	17.05	17.06		
10	16QAM	1	25	17.22	16.94	16.86	17.9	0
10	16QAM	1	49	17.19	17.01	17.13		
10	16QAM	25	0	17.21	17.00	17.09		
10	16QAM	25	12	17.23	17.22	17.27	17.9	0
10	16QAM	25	25	17.12	17.03	17.26		
10	16QAM	50	0	17.23	17.17	17.12		
10	64QAM	1	0	17.13	17.14	17.11		
10	64QAM	1	25	17.25	16.98	16.94	17.9	0
10	64QAM	1	49	17.20	17.16	16.83		
10	64QAM	25	0	16.98	17.03	17.08		
10	64QAM	25	12	16.94	16.80	17.26	17.8	0.1
10	64QAM	25	25	17.28	16.86	17.23		
10	64QAM	50	0	17.23	16.92	16.78		
10	256QAM	1	0	15.43	15.53	15.58		
10	256QAM	1	25	15.48	15.51	15.54	16.3	1.6
10	256QAM	1	49	15.54	15.55	15.49		
10	256QAM	25	0	15.79	15.76	15.70		
10	256QAM	25	12	15.85	15.74	15.81	16.3	1.6
10	256QAM	25	25	15.86	15.72	15.89		
10	256QAM	50	0	15.74	15.63	15.87		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	17.22	17.12	17.06		
5	QPSK	1	12	17.21	17.27	17.10	17.9	0
5	QPSK	1	24	17.28	16.97	17.03		
5	QPSK	12	0	17.15	17.09	17.27		
5	QPSK	12	7	17.03	17.28	17.29	17.9	0
5	QPSK	12	13	17.05	17.13	17.26		
5	QPSK	25	0	17.07	16.98	17.22		
5	16QAM	1	0	17.29	17.09	17.06		
5	16QAM	1	12	17.15	17.05	17.05	17.9	0
5	16QAM	1	24	17.24	17.07	17.13		
5	16QAM	12	0	17.20	16.90	17.09		
5	16QAM	12	7	17.20	17.09	17.13	17.9	0
5	16QAM	12	13	17.11	16.98	17.16		
5	16QAM	25	0	17.22	17.17	17.10		
5	64QAM	1	0	17.08	17.11	17.17		
5	64QAM	1	12	17.05	17.01	17.22	17.9	0
5	64QAM	1	24	17.00	17.11	17.07		
5	64QAM	12	0	17.02	17.04	17.25		
5	64QAM	12	7	16.96	16.81	17.14	17.8	0.1
5	64QAM	12	13	17.27	16.86	17.10		
5	64QAM	25	0	17.25	16.89	16.80		
5	256QAM	1	0	15.43	15.62	15.57		
5	256QAM	1	12	15.40	15.45	15.41	16.3	1.6
5	256QAM	1	24	15.40	15.55	15.52		
5	256QAM	12	0	15.81	15.72	15.72		
5	256QAM	12	7	15.77	15.85	15.82	16.3	1.6
5	256QAM	12	13	15.79	15.80	15.76		
5	256QAM	25	0	15.88	15.66	15.85		

Band 41 (2.6G Band)--Class 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	17.15	17.33	17.12	17.22	17.07	
20	QPSK	1	49	17.21	17.35	17.23	17.28	17.12	17.9	0
20	QPSK	1	99	17.18	17.34	17.20	17.23	17.08	
20	QPSK	50	0	17.10	17.26	17.18	17.18	17.00	
20	QPSK	50	24	17.16	17.27	17.18	17.23	17.05	17.9	0
20	QPSK	50	50	17.18	17.33	17.20	17.25	17.07	
20	QPSK	100	0	17.16	17.30	17.17	17.23	17.09	
20	16QAM	1	0	17.05	17.26	17.31	17.31	17.11	
20	16QAM	1	49	17.15	17.24	17.10	17.10	17.09	17.9	0
20	16QAM	1	99	17.21	17.28	17.28	17.28	17.04	
20	16QAM	50	0	17.19	17.19	17.17	17.17	17.03	
20	16QAM	50	24	17.28	17.20	17.14	17.14	17.02	17.9	0
20	16QAM	50	50	17.28	17.25	17.19	17.19	17.05	
20	16QAM	100	0	17.28	17.21	17.27	17.27	17.12	
20	64QAM	1	0	17.02	17.13	17.23	17.23	17.08	
20	64QAM	1	49	17.07	17.20	17.20	17.17	17.03	17.9	0
20	64QAM	1	99	17.10	17.24	17.24	17.25	17.02	
20	64QAM	50	0	17.10	17.22	17.22	17.16	17.09	
20	64QAM	50	24	17.24	17.20	17.20	17.19	17.08	17.8	0.1
20	64QAM	50	50	17.19	17.27	17.27	17.24	17.14	
20	64QAM	100	0	17.18	17.22	17.22	17.16	17.04	
20	256QAM	1	0	15.52	15.46	15.41	15.38	15.32	
20	256QAM	1	49	15.40	15.53	15.35	15.31	15.14	16.3	1.6
20	256QAM	1	99	15.47	15.43	15.33	15.31	15.15	
20	256QAM	50	0	15.74	15.60	15.65	15.63	15.49	
20	256QAM	50	24	15.78	15.62	15.62	15.59	15.48	16.3	1.6
20	256QAM	50	50	15.76	15.54	15.66	15.57	15.49	
20	256QAM	100	0	15.69	15.62	15.57	15.50	15.38	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.08	17.01	17.05	17.06	17.05		
15	QPSK	1	37	17.04	17.04	17.11	17.11	16.91	17.9	0
15	QPSK	1	74	17.06	17.00	17.00	17.01	17.03		
15	QPSK	36	0	17.12	17.15	17.00	17.19	16.87		
15	QPSK	36	20	17.12	17.13	17.01	17.15	17.00	17.9	0
15	QPSK	36	39	17.12	17.03	17.01	17.12	16.95		
15	QPSK	75	0	17.05	17.06	17.00	17.06	17.07		
15	16QAM	1	0	16.94	17.00	17.09	17.00	17.08		
15	16QAM	1	37	17.12	17.00	16.96	17.09	16.93	17.9	0
15	16QAM	1	74	17.14	17.09	17.05	17.18	17.10		
15	16QAM	36	0	17.10	17.13	16.97	17.00	16.82		
15	16QAM	36	20	17.14	17.15	17.11	16.91	17.02	17.9	0
15	16QAM	36	39	17.15	17.01	17.08	17.00	16.95		
15	16QAM	75	0	17.00	17.11	17.01	17.11	17.06		
15	64QAM	1	0	16.88	17.00	16.91	17.08	17.00		
15	64QAM	1	37	17.11	17.05	16.98	17.16	16.98	17.9	0
15	64QAM	1	74	17.09	17.06	17.07	17.00	16.95		
15	64QAM	36	0	16.90	17.05	17.13	17.00	17.12		
15	64QAM	36	20	17.10	17.13	17.01	17.08	16.89	17.8	0.1
15	64QAM	36	39	17.16	17.02	17.01	17.03	16.98		
15	64QAM	75	0	17.16	17.15	17.10	17.06	16.96		
15	256QAM	1	0	15.55	15.46	15.60	15.53	15.44		
15	256QAM	1	37	15.46	15.43	15.40	15.40	15.51	16.3	1.6
15	256QAM	1	74	15.50	15.34	15.37	15.52	15.36		
15	256QAM	36	0	15.79	15.66	15.68	15.64	15.65		
15	256QAM	36	20	15.70	15.55	15.69	15.69	15.57	16.3	1.6
15	256QAM	36	39	15.66	15.57	15.89	15.68	15.62		
15	256QAM	75	0	15.61	15.72	15.72	15.61	15.66		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.10	17.08	17.18	17.03	17.09		
10	QPSK	1	25	17.06	17.06	17.07	17.03	17.03	17.9	0
10	QPSK	1	49	17.09	17.11	17.03	17.09	16.85		
10	QPSK	25	0	17.09	17.00	17.18	17.14	16.89		
10	QPSK	25	12	17.12	17.11	17.16	17.16	17.09	17.9	0
10	QPSK	25	25	17.11	17.01	17.02	17.19	17.02		
10	QPSK	50	0	17.02	17.05	17.10	17.05	17.09		
10	16QAM	1	0	16.85	17.02	17.05	17.08	17.02		
10	16QAM	1	25	17.15	17.04	17.02	17.01	17.05	17.9	0
10	16QAM	1	49	17.12	17.01	16.92	17.03	16.99		
10	16QAM	25	0	17.01	17.17	17.01	16.91	16.81		
10	16QAM	25	12	17.00	17.17	17.10	16.89	17.05	17.9	0
10	16QAM	25	25	17.14	17.21	17.12	17.11	16.98		
10	16QAM	50	0	17.09	17.10	17.01	17.08	17.00		
10	64QAM	1	0	16.90	17.13	16.98	17.16	16.85		
10	64QAM	1	25	16.96	17.09	16.95	17.01	17.02	17.9	0
10	64QAM	1	49	16.91	17.15	16.95	17.07	16.98		
10	64QAM	25	0	17.08	17.19	17.15	17.10	17.11		
10	64QAM	25	12	17.17	17.01	17.01	17.15	17.05	17.8	0.1
10	64QAM	25	25	17.01	17.09	17.06	17.16	16.99		
10	64QAM	50	0	17.15	17.04	17.10	17.03	17.02		
10	256QAM	1	0	15.55	15.40	15.43	15.59	15.54		
10	256QAM	1	25	15.38	15.63	15.34	15.37	15.45	16.3	1.6
10	256QAM	1	49	15.40	15.38	15.45	15.39	15.45		
10	256QAM	25	0	15.65	15.58	15.78	15.78	15.67		
10	256QAM	25	12	15.84	15.58	15.88	15.80	15.65	16.3	1.6
10	256QAM	25	25	15.74	15.57	15.86	15.81	15.55		
10	256QAM	50	0	15.79	15.52	15.77	15.75	15.72		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2548.8	2593	2640.30	2687.5		
5	QPSK	1	0	17.10	17.04	17.03	17.03	17.03		
5	QPSK	1	12	17.14	17.01	17.17	17.07	17.03	17.9	0
5	QPSK	1	24	17.15	17.06	17.15	17.06	17.04		
5	QPSK	12	0	17.00	17.02	17.00	17.11	16.91		
5	QPSK	12	7	17.14	17.19	17.05	17.00	17.12	17.9	0
5	QPSK	12	13	17.16	17.00	17.02	17.08	16.88		
5	QPSK	25	0	17.03	17.04	17.19	17.08	17.11		
5	16QAM	1	0	16.94	17.09	17.08	17.07	17.14		
5	16QAM	1	12	17.07	17.19	17.00	17.08	17.17	17.9	0
5	16QAM	1	24	17.19	17.07	17.02	17.02	16.97		
5	16QAM	12	0	17.12	17.04	17.05	17.00	16.96		
5	16QAM	12	7	17.15	17.02	17.13	16.96	17.03	17.9	0
5	16QAM	12	13	17.15	17.03	17.07	17.05	16.89		
5	16QAM	25	0	17.00	17.10	17.01	17.05	17.04		
5	64QAM	1	0	17.00	17.03	16.98	17.17	17.01		
5	64QAM	1	12	17.04	17.06	17.18	17.05	16.95	17.9	0
5	64QAM	1	24	17.18	17.15	17.04	17.07	16.94		
5	64QAM	12	0	16.97	17.17	17.13	17.04	17.09		
5	64QAM	12	7	17.14	17.18	17.06	17.18	16.95	17.8	0.1
5	64QAM	12	13	17.13	17.05	17.02	17.03	17.03		
5	64QAM	25	0	17.17	17.16	17.12	17.03	16.99		
5	256QAM	1	0	15.59	15.47	15.57	15.49	15.38		
5	256QAM	1	12	15.36	15.45	15.43	15.35	15.59	16.3	1.6
5	256QAM	1	24	15.42	15.44	15.53	15.40	15.47		
5	256QAM	12	0	15.82	15.60	15.81	15.82	15.56		
5	256QAM	12	7	15.73	15.58	15.84	15.74	15.56	16.3	1.6
5	256QAM	12	13	15.73	15.50	15.86	15.84	15.52		
5	256QAM	25	0	15.78	15.72	15.70	15.71	15.63		

Band 41 (2.6G Band) HPUE (Limit 27)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	18.90	19.13	19.13	19.10	18.93	
20	QPSK	1	49	19.08	19.20	19.18	19.12	18.97	19.5	0
20	QPSK	1	99	19.00	19.08	19.08	19.03	18.95	
20	QPSK	50	0	18.96	19.07	19.07	19.04	18.92	
20	QPSK	50	24	19.03	19.12	19.09	19.08	18.94	19.5	0
20	QPSK	50	50	19.06	19.17	19.15	19.10	18.95	
20	QPSK	100	0	19.05	19.14	19.12	19.07	18.93	
20	16QAM	1	0	18.89	19.10	19.10	19.10	18.93	
20	16QAM	1	49	19.05	19.11	19.11	19.09	18.99	19.5	0
20	16QAM	1	99	19.08	19.15	19.15	19.12	18.96	
20	16QAM	50	0	18.87	18.99	18.99	18.98	18.85	
20	16QAM	50	24	19.00	19.02	19.02	18.99	18.81	19.5	0
20	16QAM	50	50	19.00	19.06	19.06	19.04	18.89	
20	16QAM	100	0	19.00	19.00	19.00	18.94	18.81	
20	64QAM	1	0	18.82	18.93	18.93	19.03	18.88	
20	64QAM	1	49	18.87	19.00	19.00	18.97	18.83	19.5	0
20	64QAM	1	99	18.90	19.04	19.04	19.05	18.82	
20	64QAM	50	0	18.90	19.02	19.02	18.96	18.89	
20	64QAM	50	24	19.04	19.00	19.00	18.99	18.88	19.5	0
20	64QAM	50	50	18.99	19.07	19.07	19.04	18.94	
20	64QAM	100	0	18.98	19.02	19.02	18.96	18.84	
20	256QAM	1	0	18.03	18.01	17.99	17.96	17.82	
20	256QAM	1	49	17.94	17.88	17.91	17.73	17.71	18.8	0.7
20	256QAM	1	99	18.01	17.87	17.91	17.82	17.69	
20	256QAM	50	0	18.22	18.13	18.08	18.08	17.95	
20	256QAM	50	24	18.24	18.16	18.05	18.02	17.91	18.8	0.7
20	256QAM	50	50	18.19	18.06	18.10	18.03	17.91	
20	256QAM	100	0	18.16	18.02	18.01	17.92	17.81	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.98	19.08	19.07	18.96	19.04		
15	QPSK	1	37	18.93	18.93	19.00	19.08	18.99	19.5	0
15	QPSK	1	74	19.04	19.04	19.09	18.90	19.05		
15	QPSK	36	0	18.97	19.06	19.06	18.99	18.87		
15	QPSK	36	20	19.05	18.92	18.95	19.08	18.88	19.5	0
15	QPSK	36	39	19.02	18.93	18.92	19.07	18.89		
15	QPSK	75	0	18.96	18.92	19.09	18.94	18.90		
15	16QAM	1	0	18.83	18.96	19.02	19.01	18.85		
15	16QAM	1	37	19.02	19.09	19.09	18.91	18.97	19.5	0
15	16QAM	1	74	18.90	19.05	18.93	19.07	19.04		
15	16QAM	36	0	18.76	18.96	18.92	18.91	18.78		
15	16QAM	36	20	18.89	18.96	19.03	18.90	18.73	19.5	0
15	16QAM	36	39	18.88	19.03	18.97	18.99	18.82		
15	16QAM	75	0	18.95	18.96	18.96	18.83	18.78		
15	64QAM	1	0	18.77	18.92	18.90	18.97	18.85		
15	64QAM	1	37	18.83	19.03	19.01	18.98	18.85	19.5	0
15	64QAM	1	74	18.85	18.98	19.07	18.97	18.90		
15	64QAM	36	0	18.86	18.98	19.03	18.94	18.84		
15	64QAM	36	20	18.97	18.98	19.05	18.96	18.82	19.5	0
15	64QAM	36	39	18.91	19.05	19.04	18.99	18.91		
15	64QAM	75	0	18.90	18.97	19.01	18.83	18.83		
15	256QAM	1	0	18.00	17.93	17.93	17.90	17.73		
15	256QAM	1	37	17.91	17.98	17.99	17.73	17.73	18.8	0.7
15	256QAM	1	74	17.92	17.80	17.99	17.91	17.71		
15	256QAM	36	0	18.27	18.15	18.13	18.08	17.95		
15	256QAM	36	20	18.16	18.24	17.99	18.04	17.87	18.8	0.7
15	256QAM	36	39	18.15	18.09	18.15	18.09	17.91		
15	256QAM	75	0	18.22	17.99	18.01	17.87	17.75		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	18.93	18.92	19.07	19.01	19.02		
10	QPSK	1	25	19.07	18.96	19.08	19.01	18.97	19.5	0
10	QPSK	1	49	19.06	18.9	19.07	19.01	19.01		
10	QPSK	25	0	18.94	19.04	19.05	19.01	18.85		
10	QPSK	25	12	19.06	18.94	18.91	19.07	19.01	19.5	0
10	QPSK	25	25	18.98	18.91	18.93	18.9	18.93		
10	QPSK	50	0	18.99	18.95	18.9	18.97	18.89		
10	16QAM	1	0	18.9	18.78	18.94	18.92	18.9		
10	16QAM	1	25	19.02	19.01	19.09	18.93	19.08	19.5	0
10	16QAM	1	49	19.02	18.99	18.93	19.03	19.03		
10	16QAM	25	0	18.79	18.99	19.01	18.96	18.81		
10	16QAM	25	12	18.98	19.04	19.03	19.01	18.87	19.5	0
10	16QAM	25	25	18.92	19.03	19.05	19.04	18.88		
10	16QAM	50	0	18.95	18.99	18.99	18.9	18.82		
10	64QAM	1	0	18.91	19.08	19.03	19.09

Band 48 (3.5G Band)--FCC

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	17.26	17.31	17.35	17.38		
20	QPSK	1	49	17.13	17.16	17.18	17.11	18.1	0
20	QPSK	1	99	17.17	17.18	17.22	17.15		
20	QPSK	50	0	17.22	17.25	17.23	17.25		
20	QPSK	50	24	17.24	17.23	17.24	17.26	18.1	0
20	QPSK	50	50	17.12	17.09	17.12	17.20		
20	QPSK	100	0	17.23	17.22	17.22	17.24		
20	16QAM	1	0	17.25	17.23	17.28	17.21		
20	16QAM	1	49	17.22	17.25	17.26	17.12	18.1	0
20	16QAM	1	99	17.20	17.29	17.28	17.19		
20	16QAM	50	0	17.29	17.22	17.21	17.22		
20	16QAM	50	24	17.27	17.29	17.24	17.23	18.1	0
20	16QAM	50	50	17.24	17.25	17.25	17.26		
20	16QAM	100	0	17.29	17.24	17.19	17.22		
20	64QAM	1	0	17.15	17.16	17.16	17.13		
20	64QAM	1	49	17.17	17.21	17.26	17.16	18.1	0
20	64QAM	1	99	17.21	17.26	17.23	17.19		
20	64QAM	50	0	17.20	17.28	17.22	17.20		
20	64QAM	50	24	17.26	17.28	17.23	17.26	18.1	0
20	64QAM	50	50	17.28	17.26	17.22	17.28		
20	64QAM	100	0	17.20	17.20	17.28	17.25		
20	256QAM	1	0	17.12	17.14	17.14	17.09		
20	256QAM	1	49	17.10	17.15	17.19	17.16	18.1	0
20	256QAM	1	99	17.18	17.16	17.16	17.22		
20	256QAM	50	0	17.26	17.26	17.21	17.26		
20	256QAM	50	24	17.20	17.29	17.21	17.22	18.1	0
20	256QAM	50	50	17.25	17.20	17.26	17.21		
20	256QAM	100	0	17.26	17.28	17.20	17.20		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	17.05	17.30	17.26	17.25		
15	QPSK	1	37	16.92	17.01	17.09	17.12	18.1	0
15	QPSK	1	74	16.91	17.21	17.03	17.22		
15	QPSK	36	0	17.07	17.21	17.24	17.17		
15	QPSK	36	20	16.98	17.15	17.26	17.19	18.1	0
15	QPSK	36	39	16.83	17.14	17.14	17.14		
15	QPSK	75	0	16.96	17.11	17.26	17.23		
15	16QAM	1	0	16.89	16.95	17.24	17.21		
15	16QAM	1	37	16.97	17.01	17.25	17.05	18.1	0
15	16QAM	1	74	16.68	16.94	17.02	17.16		
15	16QAM	36	0	16.92	17.24	17.21	17.16		
15	16QAM	36	20	16.94	17.20	17.27	17.18	18.1	0
15	16QAM	36	39	16.90	17.23	17.17	17.20		
15	16QAM	75	0	16.90	17.29	17.23	17.24		
15	64QAM	1	0	16.82	17.02	17.13	17.07		
15	64QAM	1	37	16.89	17.13	17.17	17.15	18.1	0
15	64QAM	1	74	16.79	17.27	16.99	17.21		
15	64QAM	36	0	16.93	17.19	17.23	17.20		
15	64QAM	36	20	16.97	17.25	17.19	17.28	18.1	0
15	64QAM	36	39	16.98	17.18	17.21	17.28		
15	64QAM	75	0	16.94	17.16	17.27	17.17		
15	256QAM	1	0	17.02	16.89	17.18	17.05		
15	256QAM	1	37	17.18	17.27	17.22	17.06	18.1	0
15	256QAM	1	74	17.22	17.29	17.27	17.23		
15	256QAM	36	0	17.14	17.22	17.17	17.22		
15	256QAM	36	20	17.20	17.22	17.27	17.16	18.1	0
15	256QAM	36	39	17.07	17.25	17.27	17.27		
15	256QAM	75	0	17.23	17.19	17.14	17.17		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	17.09	17.29	17.25	17.21		
10	QPSK	1	25	16.90	17.02	17.04	17.13	18.1	0
10	QPSK	1	49	16.85	17.22	17.06	17.25		
10	QPSK	25	0	17.08	17.19	17.29	17.20		
10	QPSK	25	12	16.97	17.11	17.29	17.25	18.1	0
10	QPSK	25	25	16.90	17.10	17.17	17.15		
10	QPSK	50	0	16.95	17.14	17.24	17.18		
10	16QAM	1	0	16.85	17.00	17.22	17.23		
10	16QAM	1	25	17.01	17.00	17.26	17.08	18.1	0
10	16QAM	1	49	16.72	16.89	17.00	17.18		
10	16QAM	25	0	16.87	17.24	17.17	17.19		
10	16QAM	25	12	16.93	17.21	17.29	17.17	18.1	0
10	16QAM	25	25	16.86	17.18	17.17	17.25		
10	16QAM	50	0	16.88	17.26	17.18	17.19		
10	64QAM	1	0	16.90	16.96	17.21	17.05		
10	64QAM	1	25	16.93	17.14	17.11	17.10	18.1	0
10	64QAM	1	49	16.85	17.25	17.01	17.21		
10	64QAM	25	0	16.90	17.12	17.25	17.12		
10	64QAM	25	12	16.96	17.17	17.21	17.27	18.1	0
10	64QAM	25	25	17.03	17.14	17.25	17.29		
10	64QAM	50	0	16.98	17.10	17.28	17.27		
10	256QAM	1	0	16.87	16.88	17.18	17.17		
10	256QAM	1	25	17.04	17.23	17.22	17.24	18.1	0
10	256QAM	1	49	17.13	17.21	17.21	17.27		
10	256QAM	25	0	17.03	17.23	17.26	17.21		
10	256QAM	25	12	17.18	17.29	17.28	17.29	18.1	0
10	256QAM	25	25	17.27	17.24	17.25	17.11		
10	256QAM	50	0	17.09	17.15	17.17	17.21		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	17.06	17.23	17.29	17.21		
5	QPSK	1	12	16.83	16.99	17.13	17.06	18.1	0
5	QPSK	1	24	16.92	17.15	17.06	17.27		
5	QPSK	12	0	17.08	17.16	17.29	17.23		
5	QPSK	12	7	16.91	17.16	17.28	17.19	18.1	0
5	QPSK	12	13	16.87	17.08	17.15	17.16		
5	QPSK	25	0	16.95	17.13	17.26	17.19		
5	16QAM	1	0	16.93	16.96	17.22	17.21		
5	16QAM	1	12	17.02	16.94	17.21	17.07	18.1	0
5	16QAM	1	24	16.71	16.89	17.07	17.19		
5	16QAM	12	0	16.94	17.21	17.21	17.18		
5	16QAM	12	7	17.00	17.24	17.23	17.23	18.1	0
5	16QAM	12	13	16.87	17.16	17.25	17.18		
5	16QAM	25	0	16.94	17.21	17.17	17.14		
5	64QAM	1	0	16.86	16.99	17.14	17.13		
5	64QAM	1	12	16.87	17.20	17.12	17.13	18.1	0
5	64QAM	1	24	16.87	17.29	17.01	17.13		
5	64QAM	12	0	16.99	17.13	17.24	17.17		
5	64QAM	12	7	16.95	17.18	17.21	17.18	18.1	0
5	64QAM	12	13	17.01	17.18	17.24	17.21		
5	64QAM	25	0	17.03	17.18	17.29	17.11		
5	256QAM	1	0	16.98	17.07	17.04	17.18		
5	256QAM	1	12	17.13	17.21	17.15	17.23	18.1	0
5	256QAM	1	24	17.16	17.24	17.23	17.24		
5	256QAM	12	0	17.04	17.22	17.22	17.23		
5	256QAM	12	7	17.21	17.26	17.26	17.25	18.1	0
5	256QAM	12	13	17.15	17.21	17.22	17.26		
5	256QAM	25	0	17.05	17.19	17.16	17.22		

Reduced power level 2 for Head-UAT

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	30.19	30.21	30.25	31.40	21.19	21.21	21.25	22.40
GPRS 1 Tx slot	30.16	30.17	30.21	31.40	21.16	21.17	21.21	22.40
GPRS 2 Tx slots	27.42	27.45	27.51	28.90	21.42	21.45	21.51	22.90
GPRS 3 Tx slots	26.14	26.18	26.23	27.40	21.88	21.92	21.97	23.14
GPRS 4 Tx slots	24.41	24.48	24.57	26.10	21.41	21.48	21.57	23.10
EDGE 1 Tx slot	24.83	24.90	25.27	26.30	15.83	15.90	16.27	17.30
EDGE 2 Tx slots	23.23	23.25	23.56	24.30	17.23	17.25	17.56	18.30
EDGE 3 Tx slots	22.12	22.23	22.43	23.30	17.86	17.97	18.17	19.04
EDGE 4 Tx slots	21.44	21.82	21.75	22.70	18.44	18.82	18.75	19.70

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	23.48	23.46	23.56	24.80	14.48	14.46	14.56	15.80
GPRS 1 Tx slot	23.45	23.44	23.52	24.80	14.45	14.44	14.52	15.80
GPRS 2 Tx slots	21.52	21.53	21.56	22.30	15.52	15.53	15.56	16.30
GPRS 3 Tx slots	19.96	19.98	19.97	21.00	15.70	15.62	15.71	16.74
GPRS 4 Tx slots	18.37	18.52	18.53	19.50	15.37	15.52	15.53	16.50
EDGE 1 Tx slot	22.54	22.46	22.83	23.80	13.54	13.46	13.83	14.80
EDGE 2 Tx slots	21.15	21.05	21.21	22.20	15.15	15.05	15.21	16.20
EDGE 3 Tx slots	19.00	19.20	19.19	20.10	14.74	14.94	14.93	15.94
EDGE 4 Tx slots	17.97	18.14	18.11	19.10	14.97	15.14	15.11	16.10

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	16.68	16.75	16.71	17.60	16.68	16.76	16.78	17.80	20.85	20.86	20.79	21.70
3GPP Rel 99	RMC 12.2Kbps	16.70	16.77	16.74	17.60	16.70	16.77	16.80	17.80	20.86	20.88	20.81	21.70
3GPP Rel 6	HSDPA Subtest-1	15.75	15.83	15.81	16.60	15.71	15.81	15.80	16.80	19.68	19.60	19.56	20.70
3GPP Rel 6	HSDPA Subtest-2	15.71	15.80	15.81	16.60	15.74	15.83	15.83	16.80	19.66	19.62	19.57	20.70
3GPP Rel 6	HSDPA Subtest-3	14.91	15.33	15.26	16.10	15.25	15.31	15.32	16.30	19.20	19.14	19.02	20.20
3GPP Rel 6	HSDPA Subtest-4	15.25	15.31	15.28	16.10	15.28	15.32	15.29	16.30	19.19	19.11	19.03	20.20
3GPP Rel 8	DC-HSDPA Subtest-1	15.51	15.61	15.58	16.60	15.51	15.57	15.63	16.80	19.50	19.37	19.40	20.70
3GPP Rel 8	DC-HSDPA Subtest-2	15.55	15.66	15.63	16.60	15.59	15.63	15.66	16.80	19.47	19.47	19.36	20.70
3GPP Rel 8	DC-HSDPA Subtest-3	14.69	15.12	15.05	16.10	15.10	15.16	15.13	16.30	19.01	18.90	18.88	20.20
3GPP Rel 8	DC-HSDPA Subtest-4	15.05	15.17	15.06	16.10	15.14	15.10	15.07	16.30	19.02	18.94	18.80	20.20
3GPP Rel 6	HSUPA Subtest-1	15.74	15.87	15.81	16.60	15.77	15.90	15.87	16.80	19.66	19.60	19.60	20.70
3GPP Rel 6	HSUPA Subtest-2	14.76	14.84	14.84	15.60	14.73	14.88	14.83	15.80	17.67	17.60	17.56	18.70
3GPP Rel 6	HSUPA Subtest-3	12.75	12.82	12.86	13.60	13.62	13.82	13.74	14.80	18.52	18.59	18.56	19.70
3GPP Rel 6	HSUPA Subtest-4	13.53	13.61	13.64	14.60	14.61	14.67	14.62	14.80	17.66	17.56	17.61	18.70
3GPP Rel 6	HSUPA Subtest-5	15.71	15.86	15.80	16.60	15.82	15.80	15.81	16.80	19.71	19.60	19.55	20.70
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	13.32	13.40	13.37	15.10	14.49	14.57	14.46	15.30	17.34	17.31	17.38	18.20

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	20.15	20.18	20.12	21.30	15.56	15.65	15.55	16.60	19.09	19.12	19.08	20.50
RC3 SO55	20.13	20.16	20.11	21.30	15.55	15.63	15.53	16.60	19.08	19.10	19.06	20.50
RC3 SO32 (+SCH)	20.12	20.15	20.09	21.30	15.54	15.61	15.52	16.60	19.06	19.09	19.04	20.50
RC3 SO32 (+SCH)	20.10	20.13	20.07	21.30	15.54	15.60	15.50	16.60	19.05	19.07	19.03	20.50
RTAP 153.6Kbps	20.09	20.10	20.05	21.30	15.52	15.59	15.48	16.60	19.03	19.05	19.01	20.50
RETAP 4096bps	20.07	20.09	20.03	21.30	15.51	15.57	15.47	16.60	19.01	19.04	19.00	20.50

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				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	15.23	15.31	15.25		
20	QPSK	1	49	15.16	15.25	15.21	16.2	0
20	QPSK	1	99	15.07	15.14	15.12		
20	QPSK	50	0	15.21	15.28	15.24		
20	QPSK	50	24	15.20	15.25	15.20	16.2	0
20	QPSK	50	50	15.18	15.26	15.22		
20	QPSK	100	0	15.20	15.27	15.23		
20	16QAM	1	0	15.21	15.22	15.27		
20	16QAM	1	49	15.30	15.23	15.18	16.2	0
20	16QAM	1	99	15.19	15.20	15.30		
20	16QAM	50	0	15.28	15.29	15.26		
20	16QAM	50	24	15.20	15.25	15.26	16.2	0
20	16QAM	50	50	15.29	15.26	15.27		
20	16QAM	100	0	15.28	15.30	15.29		
20	64QAM	1	0	15.17	15.13	15.10		
20	64QAM	1	49	15.27	15.10	15.06	16.2	0
20	64QAM	1	99	15.20	15.25	15.23		
20	64QAM	50	0	15.01	15.28	15.26		
20	64QAM	50	24	15.01	15.19	15.26	16.2	0
20	64QAM	50	50	15.25	15.23	15.26		
20	64QAM	100	0	15.28	15.26	15.25		
20	256QAM	1	0	14.94	15.18	14.97		
20	256QAM	1	49	15.07	15.09	14.93	16.2	0
20	256QAM	1	99	15.25	15.24	15.21		
20	256QAM	50	0	14.89	15.10	15.09		
20	256QAM	50	24	14.91	15.14	15.14	16.2	0
20	256QAM	50	50	15.18	15.15	15.06		
20	256QAM	100	0	15.22	15.15	15.20		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	15.26	15.18	15.30		
15	QPSK	1	37	15.01	15.18	15.00	16.2	0
15	QPSK	1	74	14.98	15.01	15.00		
15	QPSK	36	0	15.09	15.05	15.13		
15	QPSK	36	20	14.96	15.04	15.08	16.2	0
15	QPSK	36	39	15.23	15.30	15.25		
15	QPSK	75	0	15.12	15.27	15.02		
15	16QAM	1	0	15.24	14.98	15.15		
15	16QAM	1	37	15.21	15.03	15.11	16.2	0
15	16QAM	1	74	14.99	15.18	15.22		
15	16QAM	36	0	15.27	15.07	15.30		
15	16QAM	36	20	15.24	15.24	15.25	16.2	0
15	16QAM	36	39	15.23	15.28	15.29		
15	16QAM	75	0	15.08	15.25	15.15		
15	64QAM	1	0	15.15	15.07	15.14		
15	64QAM	1	37	15.15	14.88	14.85	16.2	0
15	64QAM	1	74	15.11	15.19	15.19		
15	64QAM	36	0	15.05	15.29	15.15		
15	64QAM	36	20	14.84	15.14	15.18	16.2	0
15	64QAM	36	39	15.21	14.99	15.11		
15	64QAM	75	0	15.24	15.30	15.14		
15	256QAM	1	0	15.15	14.99	15.18		
15	256QAM	1	37	15.07	15.02	14.96	16.2	0
15	256QAM	1	74	15.08	15.27	15.14		
15	256QAM	36	0	14.89	15.23	15.03		
15	256QAM	36	20	15.30	14.94	14.94	16.2	0
15	256QAM	36	39	15.03	15.04	15.17		
15	256QAM	75	0	15.25	15.17	15.06		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	15.05	15.08	15.14		
10	QPSK	1	25	14.94	15.24	15.04	16.2	0
10	QPSK	1	49	15.08	14.95	15.16		
10	QPSK	25	0	15.25	15.23	15.21		
10	QPSK	25	12	15.08	15.17	15.04	16.2	0
10	QPSK	25	25	15.19	15.30	15.04		
10	QPSK	50	0	14.99	15.28	15.08		
10	16QAM	1	0	15.07	14.97	15.29		
10	16QAM	1	25	15.29	15.22	15.09	16.2	0
10	16QAM	1	49	15.08	15.17	15.23		
10	16QAM	25	0	15.30	15.21	15.24		
10	16QAM	25	12	15.07	15.27	15.28	16.2	0
10	16QAM	25	25	15.10	15.04	15.05		
10	16QAM	50	0	15.08	15.30	15.08		
10	64QAM	1	0	15.21	15.18	14.91		
10	64QAM	1	25	15.27	15.09	14.93	16.2	0
10	64QAM	1	49	15.21	15.29	15.28		
10	64QAM	25	0	14.97	15.21	15.17		
10	64QAM	25	12	14.83	15.06	15.21	16.2	0
10	64QAM	25	25	15.15	14.99	15.12		
10	64QAM	50	0	15.03	15.04	15.21		
10	256QAM	1	0	15.06	15.22	15.30		
10	256QAM	1	25	15.09	14.87	14.90	16.2	0
10	256QAM	1	49	14.99	15.29	14.98		
10	256QAM	25	0	14.95	15.07	15.06		
10	256QAM	25	12	15.22	15.05	14.87	16.2	0
10	256QAM	25	25	15.24	15.28	15.24		
10	256QAM	50	0	15.11	15.24	15.09		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	15.06	15.20	15.10		
5	QPSK	1	12	15.08	15.03	14.97	16.2	0
5	QPSK	1	24	14.85	15.19	15.06		
5	QPSK	12	0	15.18	15.23	15.06		
5	QPSK	12	7	15.25	15.25	15.02	16.2	0
5	QPSK	12	13	15.01	15.29	15.14		
5	QPSK	25	0	15.14	15.24	14.98		
5	16QAM	1	0	15.00	14.99	15.09		
5	16QAM	1	12	15.22	15.08	15.12	16.2	0
5	16QAM	1	24	15.12	14.99	15.26		
5	16QAM	12	0	15.09	15.18	15.27		
5	16QAM	12	7	15.22	15.05	15.30	16.2	0
5	16QAM	12	13	15.18	15.26	15.08		
5	16QAM	25	0	15.20	15.12	15.13		
5	64QAM	1	0	14.94	15.17	14.92		
5	64QAM	1	12	15.08	14.99	14.85	16.2	0
5	64QAM	1	24	15.00	15.04	15.28		
5	64QAM	12	0	14.91	15.25	15.23		
5	64QAM	12	7	14.89	15.21	15.01	16.2	0
5	64QAM	12	13	15.21	15.18	15.28		
5	64QAM	25	0	15.29	15.14	15.20		
5	256QAM	1	0	14.98	15.22	15.29		
5	256QAM	1	12	15.21	14.85	14.97	16.2	0
5	256QAM	1	24	15.20	15.27	15.09		
5	256QAM	12	0	14.80	15.06	15.15		
5	256QAM	12	7	15.29	14.91	14.85	16.2	0
5	256QAM	12	13	15.03	15.27	15.23		
5	256QAM	25	0	15.30	15.30	15.13		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	15.10	15.27	15.18		
3	QPSK	1	8	15.09	15.23	15.03	16.2	0
3	QPSK	1	14	15.12	15.06	14.88		
3	QPSK	8	0	14.99	15.09	15.14		
3	QPSK	8	4	15.13	15.29	15.22	16.2	0
3	QPSK	8	7	14.94	15.27	15.18		
3	QPSK	15	0	15.12	15.30	15.17		
3	16QAM	1	0	15.22	15.04	15.27		
3	16QAM	1	8	15.26	15.16	15.09	16.2	0
3	16QAM	1	14	15.05	15.00	15.24		
3	16QAM	8	0	15.10	15.29	15.14		
3	16QAM	8	4	14.98	15.03	15.30	16.2	0
3	16QAM	8	7	15.10	15.30	15.29		
3	16QAM	15	0	15.07	15.22	15.26		
3	64QAM	1	0	15.05	15.15	15.14		
3	64QAM	1	8	15.21	14.99	14.95	16.2	0
3	64QAM	1	14	15.11	15.25	15.14		
3	64QAM	8	0	14.83	15.23	15.10		
3	64QAM	8	4	14.99	15.02	15.27	16.2	0
3	64QAM	8	7	15.06	14.98	15.11		
3	64QAM	15	0	15.22	15.14	15.25		
3	256QAM	1	0	15.03	15.18	15.10		
3	256QAM	1	8	15.09	15.08	14.89	16.2	0
3	256QAM	1	14	14.96	15.25	15.15		
3	256QAM	8	0	14.81	15.10	15.08		
3	256QAM	8	4	15.28	14.88	14.91	16.2	0
3	256QAM	8	7	15.17	15.30	15.17		
3	256QAM	15	0	15.07	15.03	15.13		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	15.18	15.08	15.26		
1.4	QPSK	1	3	14.96	15.03	14.96		
1.4	QPSK	1	5	15.09	15.18	15.05	16.2	0
1.4	QPSK	3	0	15.15	15.28	15.16		
1.4	QPSK	3	1	14.98	15.19	15.23		
1.4	QPSK	3	3	15.23	15.14	15.01		
1.4	QPSK	6	0	15.07	15.27	15.23	16.2	0
1.4	16QAM	1	0	15.23	15.27	15.29		
1.4	16QAM	1	3	15.24	15.20	15.14		
1.4	16QAM	1	5	15.04	15.07	15.22	16.2	0
1.4	16QAM	3	0	15.28	15.06	15.24		
1.4	16QAM	3	1	15.14	15.22	15.03		
1.4	16QAM	3	3	15.06	15.29	15.24		
1.4	16QAM	6	0	15.07	15.14	15.15	16.2	0
1.4	64QAM	1	0	15.16	15.17	15.11		
1.4	64QAM	1	3	15.30	14.92	15.04		
1.4	64QAM	1	5	15.08	15.04	15.24	16.2	0
1.4	64QAM	3	0	15.01	15.19	15.02		
1.4	64QAM	3	1	14.92	15.14	15.27		
1.4	64QAM	3	3	15.22	15.02	15.25		
1.4	64QAM	6	0	15.17	15.26	15.22	16.2	0
1.4	256QAM	1	0	15.13	15.20	15.25		
1.4	256QAM	1	3	15.08	15.07	14.94	16.2	0
1.4	256QAM	1	5	15.17	15.15	15.03		
1.4	256QAM	3	0	14.87	15.04	15.22		
1.4	256QAM	3	1	15.22	15.09	14.84		
1.4	256QAM	3	3	15.12	15.23	15.19		
1.4	256QAM	6	0	15.13	15.20	15.03	16.2	0

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				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	14.84	14.93	14.90		
20	QPSK	1	49	14.70	14.68	14.69	15.9	0
20	QPSK	1	99	14.64	14.61	14.69		
20	QPSK	50	0	14.83	14.91	14.90		
20	QPSK	50	24	14.78	14.87	14.89	15.9	0
20	QPSK	50	50	14.80	14.82	14.85		
20	QPSK	100	0	14.81	14.90	14.86		
20	16QAM	1	0	14.92	14.88	14.87		
20	16QAM	1	49	14.89	14.89	14.87	15.9	0
20	16QAM	1	99	14.87	14.91	14.92		
20	16QAM	50	0	14.89	14.82	14.89		
20	16QAM	50	24	14.82	14.88	14.82	15.9	0
20	16QAM	50	50	14.85	14.83	14.80		
20	16QAM	100	0	14.79	14.84	14.77		
20	64QAM	1	0	14.87	14.92	14.83		
20	64QAM	1	49	14.80	14.87	14.88	15.9	0
20	64QAM	1	99	14.80	14.87	14.80		
20	64QAM	50	0	14.82	14.81	14.92		
20	64QAM	50	24	14.81	14.85	14.84	15.9	0
20	64QAM	50	50	14.90	14.84	14.79		
20	64QAM	100	0	14.79	14.86	14.78		
20	256QAM	1	0	14.45	14.61	14.52		
20	256QAM	1	49	14.43	14.54	14.48	15.9	0
20	256QAM	1	99	14.69	14.64	14.61		
20	256QAM	50	0	14.50	14.71	14.60		
20	256QAM	50	24	14.52	14.39	14.36	15.9	0
20	256QAM	50	50	14.66	14.55	14.45		
20	256QAM	100	0	14.58	14.31	14.52		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	14.57	14.82	14.83		
15	QPSK	1	37	14.42	14.49	14.43	15.9	0
15	QPSK	1	74	14.37	14.58	14.50		
15	QPSK	36	0	14.82	14.88	14.73		
15	QPSK	36	20	14.80	14.79	14.71	15.9	0
15	QPSK	36	39	14.73	14.55	14.85		
15	QPSK	75	0	14.53	14.70	14.69		
15	16QAM	1	0	14.69	14.66	14.78		
15	16QAM	1	37	14.71	14.81	14.66	15.9	0
15	16QAM	1	74	14.83	14.64	14.90		
15	16QAM	36	0	14.87	14.65	14.60		
15	16QAM	36	20	14.81	14.61	14.57	15.9	0
15	16QAM	36	39	14.67	14.58	14.76		
15	16QAM	75	0	14.54	14.66	14.59		
15	64QAM	1	0	14.85	14.66	14.74		
15	64QAM	1	37	14.62	14.71	14.58	15.9	0
15	64QAM	1	74	14.77	14.87	14.78		
15	64QAM	36	0	14.81	14.80	14.87		
15	64QAM	36	20	14.62	14.57	14.57	15.9	0
15	64QAM	36	39	14.76	14.80	14.56		
15	64QAM	75	0	14.64	14.69	14.52		
15	256QAM	1	0	14.35	14.42	14.53		
15	256QAM	1	37	14.41	14.81	14.59	15.9	0
15	256QAM	1	74	14.44	14.79	14.47		
15	256QAM	36	0	14.68	14.75	14.57		
15	256QAM	36	20	14.31	14.45	14.75	15.9	0
15	256QAM	36	39	14.65	14.42	14.65		
15	256QAM	75	0	14.79	14.49	14.56		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	14.70	14.64	14.77		
10	QPSK	1	25	14.62	14.63	14.41	15.9	0
10	QPSK	1	49	14.53	14.39	14.62		
10	QPSK	25	0	14.68	14.80	14.82		
10	QPSK	25	12	14.48	14.73	14.76	15.9	0
10	QPSK	25	25	14.69	14.74	14.65		
10	QPSK	50	0	14.76	14.90	14.79		
10	16QAM	1	0	14.82	14.74	14.62		
10	16QAM	1	25	14.81	14.77	14.61	15.9	0
10	16QAM	1	49	14.58	14.81	14.64		
10	16QAM	25	0	14.79	14.76	14.74		
10	16QAM	25	12	14.70	14.59	14.59	15.9	0
10	16QAM	25	25	14.83	14.59	14.75		
10	16QAM	50	0	14.67	14.80	14.57		
10	64QAM	1	0	14.70	14.87	14.79		
10	64QAM	1	25	14.64	14.73	14.83	15.9	0
10	64QAM	1	49	14.75	14.65	14.70		
10	64QAM	25	0	14.58	14.64	14.79		
10	64QAM	25	12	14.51	14.73	14.75	15.9	0
10	64QAM	25	25	14.82	14.71	14.67		
10	64QAM	50	0	14.61	14.87	14.58		
10	256QAM	1	0	14.28	14.34	14.39		
10	256QAM	1	25	14.42	14.72	14.65	15.9	0
10	256QAM	1	49	14.49	14.62	14.50		
10	256QAM	25	0	14.57	14.68	14.54		
10	256QAM	25	12	14.52	14.71	14.83	15.9	0
10	256QAM	25	25	14.64	14.49	14.62		
10	256QAM	50	0	14.55	14.37	14.51		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	14.73	14.79	14.69		
5	QPSK	1	12	14.55	14.55	14.47	15.9	0
5	QPSK	1	24	14.42	14.32	14.68		
5	QPSK	12	0	14.69	14.85	14.89		
5	QPSK	12	7	14.48	14.71	14.74	15.9	0
5	QPSK	12	13	14.64	14.68	14.69		
5	QPSK	25	0	14.51	14.71	14.80		
5	16QAM	1	0	14.87	14.88	14.66		
5	16QAM	1	12	14.81	14.62	14.61	15.9	0
5	16QAM	1	24	14.78	14.89	14.72		
5	16QAM	12	0	14.75	14.54	14.85		
5	16QAM	12	7	14.68	14.66	14.55	15.9	0
5	16QAM	12	13	14.67	14.69	14.79		
5	16QAM	25	0	14.69	14.75	14.50		
5	64QAM	1	0	14.62	14.88	14.68		
5	64QAM	1	12	14.79	14.77	14.78	15.9	0
5	64QAM	1	24	14.73	14.81	14.68		
5	64QAM	12	0	14.54	14.77	14.64		
5	64QAM	12	7	14.79	14.55	14.70	15.9	0
5	64QAM	12	13	14.67	14.75	14.78		
5	64QAM	25	0	14.77	14.69	14.69		
5	256QAM	1	0	14.36	14.45	14.29		
5	256QAM	1	12	14.47	14.60	14.62	15.9	0
5	256QAM	1	24	14.52	14.78	14.63		
5	256QAM	12	0	14.47	14.68	14.70		
5	256QAM	12	7	14.36	14.58	14.57	15.9	0
5	256QAM	12	13	14.39	14.48	14.49		
5	256QAM	25	0	14.65	14.56	14.59		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	14.71	14.70	14.74		
3	QPSK	1	8	14.45	14.63	14.62	15.9	0
3	QPSK	1	14	14.42	14.57	14.67		
3	QPSK	8	0	14.62	14.91	14.82		
3	QPSK	8	4	14.56	14.87	14.64	15.9	0
3	QPSK	8	7	14.55	14.65	14.65		
3	QPSK	15	0	14.79	14.89	14.64		
3	16QAM	1	0	14.91	14.82	14.87		
3	16QAM	1	8	14.65	14.62	14.60	15.9	0
3	16QAM	1	14	14.86	14.84	14.71		
3	16QAM	8	0	14.63	14.80	14.85		
3	16QAM	8	4	14.58	14.65	14.82	15.9	0
3	16QAM	8	7	14.85	14.75	14.80		
3	16QAM	15	0	14.76	14.68	14.65		
3	64QAM	1	0	14.72	14.87	14.53		
3	64QAM	1	8	14.72	14.87	14.88	15.9	0
3	64QAM	1	14	14.70	14.76	14.51		
3	64QAM	8	0	14.81	14.72	14.75		
3	64QAM	8	4	14.57	14.75	14.70	15.9	0
3	64QAM	8	7	14.79	14.55	14.69		
3	64QAM	15	0	14.71	14.78	14.56		
3	256QAM	1	0	14.53	14.22	14.47		
3	256QAM	1	8	14.37	14.66	14.57	15.9	0
3	256QAM	1	14	14.31	14.72	14.53		
3	256QAM	8	0	14.63	14.61	14.68		
3	256QAM	8	4	14.45	14.43	14.70	15.9	0
3	256QAM	8	7	14.50	14.49	14.63		
3	256QAM	15	0	14.63	14.38	14.51		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	14.55	14.89	14.67		
1.4	QPSK	1	3	14.62	14.53	14.52		
1.4	QPSK	1	5	14.46	14.49	14.56	15.9	0
1.4	QPSK	3	0	14.78	14.77	14.65		
1.4	QPSK	3	1	14.76	14.74	14.84		
1.4	QPSK	3	3	14.74	14.52	14.75		
1.4	QPSK	6	0	14.79	14.74	14.63	15.9	0
1.4	16QAM	1	0	14.62	14.86	14.81		
1.4	16QAM	1	3	14.73	14.89	14.76		
1.4	16QAM	1	5	14.72	14.85	14.64	15.9	0
1.4	16QAM	3	0	14.75	14.73	14.74		
1.4	16QAM	3	1	14.79	14.81	14.71		
1.4	16QAM	3	3	14.79	14.60	14.60		
1.4	16QAM	6	0	14.62	14.77	14.57	15.9	0
1.4	64QAM	1	0	14.81	14.96	14.66		
1.4	64QAM	1	3	14.78	14.85	14.85		
1.4	64QAM	1	5	14.73	14.78	14.64	15.9	0
1.4	64QAM	3	0	14.55	14.61	14.73		
1.4	64QAM	3	1	14.59	14.65	14.62		
1.4	64QAM	3	3	14.63	14.66	14.60		
1.4	64QAM	6	0	14.65	14.78	14.78	15.9	0
1.4	256QAM	1	0	14.50	14.45	14.42		
1.4	256QAM	1	3	14.38	14.74	14.64		
1.4	256QAM	1	5	14.45	14.55	14.42	15.9	0
1.4	256QAM	3	0	14.50	14.79	14.64		
1.4	256QAM	3	1	14.33	14.55	14.59		
1.4	256QAM	3	3	14.54	14.44	14.52		
1.4	256QAM	6	0	14.57	14.52	14.50	15.9	0

Band 5 (Cellular Band)
Part 22H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	19.32	19.29	19.28		
10	QPSK	1	25	19.17	19.22	19.20	20.4	0
10	QPSK	1	49	19.22	19.21	19.13		
10	QPSK	25	0	19.22	19.23	19.21		
10	QPSK	25	12	19.30	19.27	19.25		
10	QPSK	25	25	19.23	19.23	19.24	20.4	0
10	QPSK	50	0	19.29	19.25	19.22		
10	16QAM	1	0	19.11	19.13	19.17		
10	16QAM	1	25	19.11	19.16

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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	13.89	13.96	14.00	15.1	0
20	QPSK	1	49	13.90	14.01	14.05		
20	QPSK	1	99	13.93	14.09	14.14		
20	QPSK	50	0	14.00	14.04	14.11	15.1	0
20	QPSK	50	24	13.92	14.07	14.12		
20	QPSK	50	50	13.99	13.99	14.10		
20	QPSK	100	0	13.90	14.04	14.10		
20	16QAM	1	0	13.68	13.82	13.84	15.1	0
20	16QAM	1	49	13.75	13.91	13.93		
20	16QAM	1	99	13.82	13.92	13.96		
20	16QAM	50	0	13.77	13.90	13.94	15.1	0
20	16QAM	50	24	13.90	13.98	13.99		
20	16QAM	50	50	13.91	14.02	14.06		
20	16QAM	100	0	13.85	13.93	13.94		
20	64QAM	1	0	13.69	13.73	13.81	15.1	0
20	64QAM	1	49	13.69	13.94	13.90		
20	64QAM	1	99	13.80	13.91	13.91		
20	64QAM	50	0	13.83	13.92	14.00	15.1	0
20	64QAM	50	24	13.89	13.97	14.03		
20	64QAM	50	50	13.93	14.05	13.91		
20	64QAM	100	0	13.89	13.95	13.98		
20	256QAM	1	0	13.62	13.68	13.64	15.1	0
20	256QAM	1	49	13.59	13.71	13.80		
20	256QAM	1	99	13.72	13.89	13.65		
20	256QAM	50	0	13.64	13.72	13.96	15.1	0
20	256QAM	50	24	13.77	13.67	13.76		
20	256QAM	50	50	13.64	13.75	13.71		
20	256QAM	100	0	13.73	13.87	13.93		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	13.79	13.73	13.97	15.1	0
15	QPSK	1	37	13.83	13.84	13.98		
15	QPSK	1	74	13.70	13.83	14.11		
15	QPSK	36	0	13.95	13.89	13.90	15.1	0
15	QPSK	36	20	13.91	13.83	13.88		
15	QPSK	36	39	13.91	13.73	14.05		
15	QPSK	75	0	13.74	13.76	14.05		
15	16QAM	1	0	13.58	13.62	13.61	15.1	0
15	16QAM	1	37	13.53	13.79	13.81		
15	16QAM	1	74	13.53	13.86	13.92		
15	16QAM	36	0	13.67	13.86	13.83	15.1	0
15	16QAM	36	20	13.88	13.75	13.72		
15	16QAM	36	39	13.74	14.01	13.84		
15	16QAM	75	0	13.75	13.83	13.69		
15	64QAM	1	0	13.68	13.57	13.71	15.1	0
15	64QAM	1	37	13.62	13.72	13.88		
15	64QAM	1	74	13.54	13.86	13.63		
15	64QAM	36	0	13.66	13.81	13.91	15.1	0
15	64QAM	36	20	13.71	13.72	13.89		
15	64QAM	36	39	13.92	13.80	13.84		
15	64QAM	75	0	13.67	13.80	13.86		
15	256QAM	1	0	13.49	13.43	13.37	15.1	0
15	256QAM	1	37	13.39	13.49	13.80		
15	256QAM	1	74	13.56	13.86	13.54		
15	256QAM	36	0	13.36	13.71	13.72	15.1	0
15	256QAM	36	20	13.57	13.41	13.53		
15	256QAM	36	39	13.59	13.62	13.53		
15	256QAM	75	0	13.58	13.61	13.84		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	13.89	13.82	13.93	15.1	0
10	QPSK	1	25	13.69	13.78	13.99		
10	QPSK	1	49	13.90	13.89	14.00		
10	QPSK	25	0	13.76	14.02	13.92	15.1	0
10	QPSK	25	12	13.87	13.93	13.84		
10	QPSK	25	25	13.83	13.72	14.10		
10	QPSK	50	0	13.61	14.02	14.10		
10	16QAM	1	0	13.52	13.59	13.69	15.1	0
10	16QAM	1	25	13.56	13.62	13.69		
10	16QAM	1	49	13.65	13.89	13.75		
10	16QAM	25	0	13.51	13.80	13.93	15.1	0
10	16QAM	25	12	13.80	13.90	13.89		
10	16QAM	25	25	13.88	13.92	13.94		
10	16QAM	50	0	13.84	13.93	13.67		
10	64QAM	1	0	13.63	13.51	13.64	15.1	0
10	64QAM	1	25	13.68	13.73	13.99		
10	64QAM	1	49	13.78	13.80	13.87		
10	64QAM	25	0	13.76	13.91	13.95	15.1	0
10	64QAM	25	12	13.69	13.78	13.78		
10	64QAM	25	25	13.84	13.91	13.86		
10	64QAM	50	0	13.60	13.73	13.98		
10	256QAM	1	0	13.34	13.48	13.36	15.1	0
10	256QAM	1	25	13.36	13.63	13.73		
10	256QAM	1	49	13.51	13.64	13.64		
10	256QAM	25	0	13.57	13.68	13.85	15.1	0
10	256QAM	25	12	13.50	13.39	13.57		
10	256QAM	25	25	13.44	13.66	13.68		
10	256QAM	50	0	13.53	13.81	13.87		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	13.87	13.87	13.88	15.1	0
5	QPSK	1	12	13.60	13.71	13.91		
5	QPSK	1	24	13.67	14.01	14.06		
5	QPSK	12	0	13.76	13.88	13.86	15.1	0
5	QPSK	12	7	13.77	13.96	14.05		
5	QPSK	12	13	13.90	13.71	13.97		
5	QPSK	25	0	13.78	14.00	13.82		
5	16QAM	1	0	13.66	13.61	13.72	15.1	0
5	16QAM	1	12	13.69	13.91	13.81		
5	16QAM	1	24	13.79	13.85	13.72		
5	16QAM	12	0	13.55	13.70	13.85	15.1	0
5	16QAM	12	7	13.77	13.88	13.90		
5	16QAM	12	13	13.91	13.72	13.93		
5	16QAM	25	0	13.81	13.86	13.64		
5	64QAM	1	0	13.66	13.47	13.58	15.1	0
5	64QAM	1	12	13.64	13.76	13.79		
5	64QAM	1	24	13.80	13.82	13.81		
5	64QAM	12	0	13.54	13.72	13.89	15.1	0
5	64QAM	12	7	13.86	13.70	13.81		
5	64QAM	12	13	13.69	13.90	13.86		
5	64QAM	25	0	13.68	13.83	13.68		
5	256QAM	1	0	13.45	13.54	13.54	15.1	0
5	256QAM	1	12	13.55	13.53	13.79		
5	256QAM	1	24	13.57	13.77	13.39		
5	256QAM	12	0	13.54	13.52	13.93	15.1	0
5	256QAM	12	7	13.68	13.61	13.76		
5	256QAM	12	13	13.55	13.58	13.63		
5	256QAM	25	0	13.71	13.64	13.84		

Band 12 (700MHz Low Band)
Part 27F(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	18.03	17.99	18.05	19.1	0
10	QPSK	1	25	18.06	18.09	18.07		
10	QPSK	1	49	18.11	18.16	18.04		
10	QPSK	25	0	18.01	18.00	18.00	19.1	0
10	QPSK	25	12	18.04	18.05	18.00		
10	QPSK	25	25	18.05	18.07	18.03		
10	QPSK	50	0	18.02	18.05	18.04		
10	16QAM	1	0	18.07	18.06	17.93	19.1	0
10	16QAM	1	25	18.05	18.05	18.03		
10	16QAM	1	49	17.98	18.11	18.07		
10	16QAM	25	0	17.95	18.11	17.94	19.1	0
10	16QAM	25	12	18.00	18.00	17.92		
10	16QAM	25	25	18.01	17.92	17.97		
10	16QAM	50	0	18.01	17.93	17.92		
10	64QAM	1	0	18.09	18.03	17.96	19.1	0
10	64QAM	1	25	18.11	18.08	18.08		
10	64QAM	1	49	17.98	18.08	17.95		
10	64QAM	25	0	17.94	17.95	17.94	19.1	0
10	64QAM	25	12	17.93	17.95	17.94		
10	64QAM	25	25	17.93	17.96	17.98		
10	64QAM	50	0	18.00	18.10	17.92		
10	256QAM	1	0	18.00	17.91	17.87	18.8	0.3
10	256QAM	1	25	17.98	17.89	17.92		
10	256QAM	1	49	18.09	18.03	18.03		
10	256QAM	25	0	17.75	17.73	17.97	18.8	0.3
10	256QAM	25	12	17.91	17.91	17.99		
10	256QAM	25	25	18.01	17.99	17.99		
10	256QAM	50	0	17.89	17.96	17.94		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	18.00	17.78	17.99	19.1	0
5	QPSK	1	12	17.97	17.86	17.78		
5	QPSK	1	24	18.06	18.03	17.87		
5	QPSK	12	0	17.85	18.00	17.94	19.1	0
5	QPSK	12	7	17.86	17.83	17.91		
5	QPSK	12	13	17.97	18.05	17.80		
5	QPSK	25	0	17.97	17.82	18.02		
5	16QAM	1	0	17.89	17.94	17.71	19.1	0
5	16QAM	1	12	17.96	18.05	17.80		
5	16QAM	1	24	17.89	17.84	17.82		
5	16QAM	12	0	17.90	17.94	17.86	19.1	0
5	16QAM	12	7	17.92	17.76	17.88		
5	16QAM	12	13	17.84	17.66	17.96		
5	16QAM	25	0	17.97	17.68	17.73		
5	64QAM	1	0	18.09	17.95	17.82	19.1	0
5	64QAM	1	12	17.90	18.01	18.07		
5	64QAM	1	24	17.98	17.91	17.65		
5	64QAM	12	0	17.65	17.68	17.90	19.1	0
5	64QAM	12	7	17.77	17.67	17.67		
5	64QAM	12	13	17.78	17.73	17.79		
5	64QAM	25	0	17.75	17.97	17.82		
5	256QAM	1	0	17.85	17.81	17.69	18.8	0.3
5	256QAM	1	12	17.98	17.82	17.64		
5	256QAM	1	24	18.00	18.03	17.80		
5	256QAM	12	0	17.66	17.52	17.70	18.8	0.3
5	256QAM	12	7	17.84	17.67	17.86		
5	256QAM	12	13	17.81	17.84	17.83		
5	256QAM	25	0	17.64	17.76	17.93		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	17.77	17.83	17.80	19.1	0
3	QPSK	1	8	17.80	17.83	17.79		
3	QPSK	1	14	18.09	18.06	17.87		
3	QPSK	8	0	17.88	17.83	18.00	19.1	0
3	QPSK	8	4	17.99	18.00	18.00		
3	QPSK	8	7	17.87	17.87	17.94		
3	QPSK	15	0	17.75	17.76	18.01		
3	16QAM	1	0	17.99	17.80	17.78	19.1	0
3	16QAM	1	8	17.75	17.86	17.83		
3	16QAM	1	14	17.86	17.96	17.80		
3	16QAM	8	0	17.73	18.05	17.82	19.1	0
3	16QAM	8	4	17.91	17.89	17.71		
3	16QAM	8	7	17.86	17.85	17.71		
3	16QAM	15	0	17.85	17.84	17.79		
3	64QAM	1	0	18.07	17.76	17.75	19.1	0
3	64QAM	1	8	18.10	18.01	17.81		
3	64QAM	1	14	17.89	17.95	17.68		
3	64QAM	8	0	17.68	17.95	17.93	19.1	0
3	64QAM	8	4	17.64	17.84	17.77		
3	64QAM	8	7	17.77	17.84	17.82		
3	64QAM	15	0	17.96	18.05	17.76		
3	256QAM	1	0	17.86	17.83	17.71	18.8	0.3
3	256QAM	1	8	17.85	17.65	17.69		
3	256QAM	1	14	17.82	17.79	17.73		
3	256QAM	8	0	17.73	17.54	17.76	18.8	0.3
3	256QAM	8	4	17.82	17.61	17.84		
3	256QAM	8	7	17.76	17.95	17.83		
3	256QAM	15	0	17.64	17.85	17.66		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	17.83	17.85	17.88	19.1	0
1.4	QPSK	1	3	17.95	18.03	17.87		
1.4	QPSK	1	5	17.92	18.14	17.90		
1.4	QPSK	3	0	17.84	17.91	17.99		
1.4	QPSK	3	1	17.84	17.79	17.81		
1.4	QPSK	3	3	18.04	17.88	17.94		
1.4	QPSK	6	0	17.81	17.94	17.99	19.1	0
1.4	16QAM	1	0	18.04	17.95	17.78	19.1	0
1.4	16QAM	1	3	17.99	17.79	17.76		
1.4	16QAM	1	5	17.77	17.91	17.86		
1.4	16QAM	3	0	17.73	18.04	17.77		
1.4	16QAM	3	1	17.80	17.79	17.83		
1.4	16QAM	3	3	17.91	17.66	17.96		
1.4	16QAM	6	0	17.85	17.69	17.63	19.1	0
1.4	64QAM	1	0	17.96	17.91	17.71	19.1	0
1.4	64QAM	1	3	17.81	17.93	17.80		
1.4	64QAM	1	5	17.81	17.78	17.76		
1.4	64QAM	3	0	17.73	17.87	17.83		
1.4	64QAM	3	1	17.67	17.77	17.64		
1.4	64QAM	3	3	17.76	17.86	17.74		
1.4	64QAM	6	0	17.80	17.90	17.86	19.1	0
1.4	256QAM	1	0	17.78	17.72	17.62	18.8	0.3
1.4	256QAM	1	3	17.81	17.81	17.89		
1.4	256QAM	1	5	18.06	17.76	18.01		
1.4	256QAM	3	0	17.58	17.57	17.67		
1.4	256QAM	3	1	17.65	17.61	17.94		
1.4	256QAM	3	3	17.92	17.75	17.91		
1.4	256QAM	6	0	17.76	17.71	17.75	18.8	0.3

Band 13(700MHz Band)
Part 27F

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					23230			
Frequency (MHz)					782			
10	QPSK	1	0		19.35		20.9	0
10	QPSK	1	25		19.45			
10	QPSK	1	49		19.42			
10	QPSK	25	0		19.34		20.9	0
10	QPSK	25	12		19.38			
10	QPSK	25	25		19.41			
10	QPSK	50	0		19.38			
10	16QAM	1	0		19.37		20.9	0
10	16QAM	1	25		19.31			
10	16QAM	1	49		19.37			
10	16QAM	25	0		19.39		20.9	0
10	16QAM	25	12		19.25			
10	16QAM	25	25		19.25			
10	16QAM	50	0		19.39			
10	64QAM	1	0		19.32		20.9	0
10	64QAM	1	25		19.36			
10	64QAM	1	49		19.31			
10	64QAM	25	0		19.27		20.3	0.6
10	64QAM	25	12		19.23			
10	64QAM	25	25		19.28			
10	64QAM	50	0		19.20			
10	256QAM	1	0		17.42		18.8	2.1
10	256QAM	1	25		17.61			
10	256QAM	1	49		17.47			
10	256QAM	25	0		17.58		18.8	2.1
10	256QAM	25	12		17.25			
10	256QAM	25	25		17.39			
10	256QAM	50	0		17.56			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	19.35	19.22	19.24	20.9	0
5	QPSK	1	12	19.18	19.23	19.40		
5	QPSK	1	24	19.19	19.16	19.38		
5	QPSK	12	0	19.23	19.32	19.26	20.9	0
5	QPSK	12	7	19.28	19.19	19.36		
5	QPSK	12	13	19.06	19.40	19.42		
5	QPSK	25	0	19.19	19.14	19.35		
5	16QAM	1	0	19.05	19.29	19.31	20.9	0
5	16QAM	1	12	19.43	19.27	19.32		
5	16QAM	1	24	19.40	19.16	19.30		
5	16QAM	12	0	19.40	19.11	19.41	20.9	0
5	16QAM	12	7	19.12	19.26	19.16		
5	16QAM	12	13	19.33	19.08	19.28		
5	16QAM	25	0	19.24	19.08	19.43		
5	64QAM	1	0	19.19	19.19	19.36	20.9	0
5	64QAM	1	12	19.40	19.26	19.29		
5	64QAM	1	24	19.20	19.23	19.20		
5	64QAM	12	0	19.41	19.10	19.44	20.3	0.6
5	64QAM	12	7	19.35	19.01	19.30		
5	64QAM	12	13	19.22	19.09	19.36		
5	64QAM	25	0	19.09	18.98	19.11		
5	256QAM	1	0	17.16	17.22	17.29	18.8	2.1
5	256QAM	1	12	17.23	17.47	17.65		
5	256QAM	1	24	17.50	17.49	17.36		
5	256QAM	12	0	17.45	17.29	17.56	18.8	2.1
5	256QAM	12	7	17.08	17.19	17.22		
5	256QAM	12	13	17.15	17.17	17.32		
5	256QAM	25	0	17.54	17.40	17.46		

Band 17 (700MHz Band)
Part 27H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	18.04	18.07	18.01	19.1	0
10	QPSK	1	25	18.08	18.09	18.04		
10	QPSK	1	49	18.15	18.03	18.06		
10	QPSK	25	0	18.04	18.06	18.03	19.1	0
10	QPSK	25	12	18.08	18.01	18.02		
10	QPSK	25	25	17.97	17.94	17.95		
10	QPSK	50	0	18.08	18.06	18.05		
10	16QAM	1	0	18.04	18.03	18.00	19.1	0
10	16QAM	1	25	18.09	18.08	18.03		
10	16QAM	1	49	18.09	18.07	18.04		
10	16QAM	25	0	18.05	18.06	18.07	19.1	0
10	16QAM	25	12	17.90	18.09	17.91		
10	16QAM	25	25	17.99	17.93	17.95		
10	16QAM	50	0	18.09	18.09	18.07		
10	64QAM	1	0	18.02	18.07	18.08	19.1	0
10	64QAM	1	25	18.01	18.05	18.06		
10	64QAM	1	49	18.04	18.08	18.09		
10	64QAM	25	0	18.05	18.07	18.07	19.1	0
10	64QAM	25	12	17.92	17.92	17.92		
10	64QAM	25	25	17.96	17.98	17.94		
10	64QAM	50	0	17.90	18.09	18.07		
10	256QAM	1	0	18.02	17.96	17.96	18.8	0.3
10	256QAM	1	25	17.93	18.05	18.03		
10	256QAM	1	49	17.98	17.90	17.91		
10	256QAM	25	0	17.77	17.78	18.06	18.8	0.3
10	256QAM	25	12	17.89	17.70	17.83		
10	256QAM	25	25	17.82	17.84	17.85		
10	256QAM	50	0	17.78	17.85	17.89		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	17.98	17.83	17.79	19.1	0
5	QPSK	1	12	17.93	17.98	17.99		
5	QPSK	1	24	18.09	17.85	18.06		
5	QPSK	12	0	18.03	18.06	18.03	19.1	0
5	QPSK	12	7	18.08	17.86	17.81		
5	QPSK	12	13	17.71	17.72	17.72		
5	QPSK	25	0	17.79	17.88	18.02		
5	16QAM	1	0	17.79	17.90	17.86	19.1	0
5	16QAM	1	12	17.90	18.04	17.89		
5	16QAM	1	24	17.80	18.06	17.79		
5	16QAM	12	0	18.02	17.77	17.86	19.1	0
5	16QAM	12	7	17.73	17.95	17.68		
5	16QAM	12	13	17.74	17.72	17.88		
5	16QAM	25	0	18.03	17.97	17.99		
5	64QAM	1	0	17.98	17.80	17.95	19.1	0
5	64QAM	1	12	17.79	17.76	17.87		
5	64QAM	1	24	17.97	17.96	17.81		
5	64QAM	12	0	17.90	17.80	17.92	19.1	0
5	64QAM	12	7	17.72	17.84	17.66		
5	64QAM	12	13	17.75	17.92	17.82		
5	64QAM	25	0	17.87	17.86	17.82		
5	256QAM	1	0	17.84	17.86	17.73	18.8	0.3
5	256QAM	1	12	17.85	17.80	17.88		
5	256QAM	1	24	17.93	17.75	17.83		
5	256QAM	12	0	18.06	18.00	18.00	18.8	0.3
5	256QAM	12	7	18.01	17.86	17.89		
5	256QAM	12	13	18.14	17.85	18.10		
5	256QAM	25	0	17.95	18.08	18.06		

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	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	15.33	15.40	15.32	16.2	0
20	QPSK	1	49	15.28	15.18	15.14		
20	QPSK	1	99	15.09	15.11	15.13		
20	QPSK	50	0	15.30	15.35	15.29	16.2	0
20	QPSK	50	24	15.35	15.37	15.31		
20	QPSK	50	50	15.33	15.34	15.35		
20	QPSK	100	0	15.21	15.29	15.28		
20	16QAM	1	0	15.23	15.20	15.27	16.2	0
20	16QAM	1	49	15.27	15.27	15.25		
20	16QAM	1	99	15.28	15.21	15.21		
20	16QAM	50	0	15.29	15.25	15.22	16.2	0
20	16QAM	50	24	15.26	15.26	15.23		
20	16QAM	50	50	15.22	15.26	15.24		
20	16QAM	100	0	15.28	15.29	15.21		
20	64QAM	1	0	15.25	15.23	15.25	16.2	0
20	64QAM	1	49	15.26	15.23	15.24		
20	64QAM	1	99	15.29	15.22	15.27		
20	64QAM	50	0	15.25	15.20	15.26	16.2	0
20	64QAM	50	24	15.21	15.22	15.28		
20	64QAM	50	50	15.27	15.22	15.20		
20	64QAM	100	0	15.27	15.25	15.21		
20	256QAM	1	0	15.20	15.10	15.01	16.2	0
20	256QAM	1	49	15.20	15.15	15.10		
20	256QAM	1	99	15.08	15.05	15.06		
20	256QAM	50	0	15.02	15.13	15.09	16.2	0
20	256QAM	50	24	15.16	14.97	15.04		
20	256QAM	50	50	15.15	15.11	15.10		
20	256QAM	100	0	15.32	15.25	15.04		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	15.23	15.20	15.28	16.2	0
15	QPSK	1	37	15.18	15.20	14.98		
15	QPSK	1	74	14.88	14.88	15.08		
15	QPSK	36	0	15.11	15.16	15.12	16.2	0
15	QPSK	36	20	15.19	15.33	15.24		
15	QPSK	36	39	15.21	15.35	15.13		
15	QPSK	75	0	15.11	15.16	15.21		
15	16QAM	1	0	15.21	15.13	15.19	16.2	0
15	16QAM	1	37	15.11	15.09	15.28		
15	16QAM	1	74	15.14	15.07	15.14		
15	16QAM	36	0	15.31	15.05	15.16	16.2	0
15	16QAM	36	20	15.19	15.23	15.11		
15	16QAM	36	39	15.19	15.17	15.18		
15	16QAM	75	0	15.09	15.28	15.09		
15	64QAM	1	0	15.14	15.16	15.24	16.2	0
15	64QAM	1	37	15.26	15.27	15.21		
15	64QAM	1	74	15.09	15.01	15.32		
15	64QAM	36	0	15.15	14.95	15.02	16.2	0
15	64QAM	36	20	15.18	15.05	15.04		
15	64QAM	36	39	15.16	15.24	15.03		
15	64QAM	75	0	15.27	15.29	15.12		
15	256QAM	1	0	15.32	15.10	15.14	16.2	0
15	256QAM	1	37	15.04	15.17	15.25		
15	256QAM	1	74	15.12	15.30	15.16		
15	256QAM	36	0	15.03	15.18	15.28	16.2	0
15	256QAM	36	20	15.19	15.25	15.24		
15	256QAM	36	39	15.25	15.10	15.31		
15	256QAM	75	0	15.05	15.22	15.11		
Channel				26090	26340	26590	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	15.15	15.15	15.09	16.2	0
10	QPSK	1	25	15.01	15.12	15.19		
10	QPSK	1	49	15.01	15.04	15.11		
10	QPSK	25	0	15.19	15.19	15.12	16.2	0
10	QPSK	25	12	15.35	15.14	15.33		
10	QPSK	25	25	15.21	15.32	15.33		
10	QPSK	50	0	15.19	15.29	15.03		
10	16QAM	1	0	15.17	15.19	15.16	16.2	0
10	16QAM	1	25	15.32	15.18	15.08		
10	16QAM	1	49	15.19	14.98	15.12		
10	16QAM	25	0	15.09	15.00	15.16	16.2	0
10	16QAM	25	12	15.18	15.01	15.03		
10	16QAM	25	25	15.07	15.01	14.99		
10	16QAM	50	0	15.09	15.23	15.09		
10	64QAM	1	0	15.08	14.98	15.19	16.2	0
10	64QAM	1	25	15.22	15.02	15.24		
10	64QAM	1	49	15.10	15.14	15.27		
10	64QAM	25	0	15.20	15.02	15.19	16.2	0
10	64QAM	25	12	15.01	15.03	15.26		
10	64QAM	25	25	15.26	15.08	15.13		
10	64QAM	50	0	15.21	15.25	15.10		
10	256QAM	1	0	15.24	15.14	15.24	16.2	0
10	256QAM	1	25	15.33	15.18	15.23		
10	256QAM	1	49	15.29	15.17	15.26		
10	256QAM	25	0	14.97	15.27	15.16	16.2	0
10	256QAM	25	12	15.14	15.28	14.99		
10	256QAM	25	25	15.01	14.96	15.28		
10	256QAM	50	0	15.30	15.08	15.26		
Channel				26065	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	15.27	15.26	15.18	16.2	0
5	QPSK	1	12	15.14	15.16	15.03		
5	QPSK	1	24	15.04	14.86	14.97		
5	QPSK	12	0	15.27	15.26	15.10	16.2	0
5	QPSK	12	7	15.34	15.34	15.32		
5	QPSK	12	13	15.22	15.29	15.35		
5	QPSK	25	0	15.21	15.04	15.21		
5	16QAM	1	0	15.02	14.96	15.18	16.2	0
5	16QAM	1	12	15.25	15.25	15.08		
5	16QAM	1	24	15.12	15.19	14.96		
5	16QAM	12	0	15.18	15.28	15.26	16.2	0
5	16QAM	12	7	15.02	15.28	15.23		
5	16QAM	12	13	15.24	15.14	15.15		
5	16QAM	25	0	15.29	15.22	15.16		
5	64QAM	1	0	15.26	15.08	15.02	16.2	0
5	64QAM	1	12	15.18	15.01	15.03		
5	64QAM	1	24	15.06	15.25	15.14		
5	64QAM	12	0	15.17	15.01	15.04	16.2	0
5	64QAM	12	7	15.17	15.21	15.28		
5	64QAM	12	13	15.26	15.09	14.95		
5	64QAM	25	0	15.29	15.20	15.12		
5	256QAM	1	0	15.22	14.99	15.05	16.2	0
5	256QAM	1	12	15.06	15.06	15.09		
5	256QAM	1	24	15.30	15.21	15.15		
5	256QAM	12	0	15.05	15.05	15.11	16.2	0
5	256QAM	12	7	15.28	15.20	15.23		
5	256QAM	12	13	15.01	15.05	15.28		
5	256QAM	25	0	15.19	15.11	15.25		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	15.32	15.23	15.37	16.2	0
3	QPSK	1	8	15.08	15.12	14.90		
3	QPSK	1	14	15.11	14.89	15.07		
3	QPSK	8	0	15.27	15.32	15.21	16.2	0
3	QPSK	8	4	15.13	15.25	15.26		
3	QPSK	8	7	15.22	15.37	15.16		
3	QPSK	15	0	15.00	15.14	15.04		
3	16QAM	1	0	15.27	15.09	15.15	16.2	0
3	16QAM	1	8	15.11	15.24	15.00		
3	16QAM	1	14	15.23	15.10	15.04		
3	16QAM	8	0	15.06	15.22	15.13	16.2	0
3	16QAM	8	4	15.14	15.08	15.03		
3	16QAM	8	7	15.11	15.31	15.11		
3	16QAM	15	0	15.26	15.16	15.19		
3	64QAM	1	0	15.03	15.11	15.27	16.2	0
3	64QAM	1	8	15.19	15.08	15.29		
3	64QAM	1	14	15.18	15.26	15.16		
3	64QAM	8	0	15.03	15.06	15.25	16.2	0
3	64QAM	8	4	15.15	15.04	15.11		
3	64QAM	8	7	15.04	15.06	15.01		
3	64QAM	15	0	15.23	15.03	14.97		
3	256QAM	1	0	15.07	15.11	15.16	16.2	0
3	256QAM	1	8	15.24	15.29	15.14		
3	256QAM	1	14	15.03	15.22	15.03		
3	256QAM	8	0	15.07	15.18	15.26	16.2	0
3	256QAM	8	4	15.23	15.10	15.12		
3	256QAM	8	7	15.14	15.11	15.24		
3	256QAM	15	0	15.02	15.12	15.16		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	15.37	15.29	15.32	16.2	0
1.4	QPSK	1	3	15.06	14.97	15.04		
1.4	QPSK	1	5	14.98	15.13	15.03		
1.4	QPSK	3	0	15.34	15.11	15.30		
1.4	QPSK	3	1	15.37	15.14	15.14		
1.4	QPSK	3	3	15.38	15.28	15.17		
1.4	QPSK	6	0	15.17	15.31	15.17	16.2	0
1.4	16QAM	1	0	15.06	15.11	15.25	16.2	0
1.4	16QAM	1	3	15.15	15.10	15.02		
1.4	16QAM	1	5	15.12	14.96	15.21		
1.4	16QAM	3	0	15.24	15.28	15.20		
1.4	16QAM	3	1	15.28	15.01	15.26		
1.4	16QAM	3	3	15.01	15.03	15.25		
1.4	16QAM	6	0	15.05	15.12	14.98	16.2	0
1.4	64QAM	1	0	15.22	15.20	15.07	16.2	0
1.4	64QAM	1	3	15.27	15.07	15.19		
1.4	64QAM	1	5	15.18	15.18	15.18		
1.4	64QAM	3	0	15.01	15.02	15.02		
1.4	64QAM	3	1	15.15	15.24	15.18		
1.4	64QAM	3	3	15.20	15.05	15.22		
1.4	64QAM	6	0	15.30	15.03	15.23	16.2	0
1.4	256QAM	1	0	15.12	15.01	15.10	16.2	0
1.4	256QAM	1	3	15.28	15.26	15.10		
1.4	256QAM	1	5	15.07	15.19	15.19		
1.4	256QAM	3	0	15.07	15.08	15.27		
1.4	256QAM	3	1	15.22	15.13	15.20		
1.4	256QAM	3	3	15.07	15.09	15.21		
1.4	256QAM	6	0	15.07	15.31	15.03	16.2	0

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)				821.5	831.5	841.5		
15	QPSK	1	0	19.11	19.10	19.15	20.1	0
15	QPSK	1	37	19.06	19.09	19.08		
15	QPSK	1	74	19.04	19.05	18.96		
15	QPSK	36	0	19.04	19.01	19.03	20.1	0
15	QPSK	36	20	19.05	19.06	19.07		
15	QPSK	36	39	19.00	19.06	19.04		
15	QPSK	75	0	19.04	19.05	19.06		
15	16QAM	1	0	18.90	18.98	18.97	20.1	0
15	16QAM	1	37	18.99	18.99	18.97		
15	16QAM	1	74	18.94	18.98	18.95		
15	16QAM	36	0	18.92	18.92	18.90	20.1	0
15	16QAM	36	20	18.96	18.91	19.09		
15	16QAM	36	39	19.09	18.94	19.05		
15	16QAM	75	0	18.97	18.90	19.09		
15	64QAM	1	0	18.93	18.94	18.95	20.1	0
15	64QAM	1	37	18.96	18.98	18.95		
15	64QAM	1	74	19.00	18.95	18.94		
15	64QAM	36	0	18.93	18.95	18.94	20.1	0
15	64QAM	36	20	18.97	19.08	19.08		
15	64QAM	36	39	19.07	18.93	19.08		
15	64QAM	75	0	18.90	19.07	19.07		
15	256QAM	1	0	17.45	17.65	17.51	18.8	1.3
15	256QAM	1	37	17.39	17.68	17.57		
15	256QAM	1	74	17.53	17.40	17.36		
15	256QAM	36	0	17.43	17.36	17.43	18.8	1.3
15	256QAM	36	20	17.37	17.27	17.48		
15	256QAM	36	39	17.49	17.39	17.46		
15	256QAM	75	0	17.40	17.39	17.42		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	18.89	18.97	18.96	20.1	0
10	QPSK	1	25	18.82	18.99	19.04		
10	QPSK	1	49	18.87	19.04	18.75		
10	QPSK	25	0	18.99	18.95	18.87	20.1	0
10	QPSK	25	12	18.97	19.01	18.95		
10	QPSK	25	25	19.01	18.83	19.01		
10	QPSK	50	0	18.87	18.91	18.88		
10	16QAM	1	0	18.95	18.82	18.79	20.1	0
10	16QAM	1	25	18.89	18.98	18.81		
10	16QAM	1	49	18.84	18.91	18.71		
10	16QAM	25	0	18.87	18.96	18.75	20.1	0
10	16QAM	25	12	18.99	18.73	18.89		
10	16QAM	25	25	19.11	18.95	18.85		
10	16QAM	50	0	18.83	18.93	19.12		
10	64QAM	1	0	18.69	18.77	18.83	20.1	0
10	64QAM	1	25	18.95	18.84	18.88		
10	64QAM	1	49	18.98	18.87	18.86		
10	64QAM	25	0	18.79	18.93	18.85	20.1	0
10	64QAM	25	12	18.77	19.10	19.07		
10	64QAM	25	25	19.10	18.81	19.07		
10	64QAM	50	0	18.92	19.12	18.98		
10	256QAM	1	0	17.70	17.57	17.43	18.8	1.3
10	256QAM	1	25	17.65	17.44	17.42		
10	256QAM	1	49	17.73	17.51	17.46		
10	256QAM	25	0	17.43	17.56	17.54	18.8	1.3
10	256QAM	25	12	17.55	17.39	17.24		
10	256QAM	25	25	17.49	17.39	17.33		
10	256QAM	50	0	17.31	17.38	17.30		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	18.93	19.03	19.04	20.1	0
5	QPSK	1	12	18.81	18.96	18.92		
5	QPSK	1	24	18.99	18.81	18.82		
5	QPSK	12	0	19.04	18.83	19.07	20.1	0
5	QPSK	12	7	18.93	18.97	19.12		
5	QPSK	12	13	18.90	18.97	19.00		
5	QPSK	25	0	19.04	18.90	18.87		
5	16QAM	1	0	18.89	18.85	18.79	20.1	0
5	16QAM	1	12	18.96	18.88	18.83		
5	16QAM	1	24	18.92	18.77	18.81		
5	16QAM	12	0	18.86	18.88	18.69	20.1	0
5	16QAM	12	7	18.71	18.81	19.05		
5	16QAM	12	13	18.92	18.94	18.99		
5	16QAM	25	0	18.98	18.79	18.92		
5	64QAM	1	0	18.79	18.83	18.74	20.1	0
5	64QAM	1	12	18.75	18.79	18.82		
5	64QAM	1	24	18.84	18.77	18.96		
5	64QAM	12	0	18.92	18.70	18.80	20.1	0
5	64QAM	12	7	18.89	19.08	19.04		
5	64QAM	12	13	18.89	18.73	19.12		
5	64QAM	25	0	18.71	18.98	19.01		
5	256QAM	1	0	17.46	17.60	17.48	18.8	1.3
5	256QAM	1	12	17.50	17.68	17.54		
5	256QAM	1	24	17.51	17.53	17.51		
5	256QAM	12	0	17.61	17.39	17.49	18.8	1.3
5	256QAM	12	7	17.58	17.56	17.45		
5	256QAM	12	13	17.48	17.58	17.23		
5	256QAM	25	0	17.60	17.38	17.42		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	19.10	18.92	18.94	20.1	0
3	QPSK	1	8	18.93	19.11	19.13		
3	QPSK	1	14	19.00	18.97	18.77		
3	QPSK	8	0	18.95	18.76	18.78	20.1	0
3	QPSK	8	4	18.92	19.09	19.10		
3	QPSK	8	7	18.98	19.05	18.99		
3	QPSK	15	0	18.93	19.02	18.87		
3	16QAM	1	0	18.73	18.88	18.88	20.1	0
3	16QAM	1	8	18.74	18.93	18.91		
3	16QAM	1	14	18.91	18.84	18.72		
3	16QAM	8	0	18.86	18.83	18.84	20.1	0
3	16QAM	8	4	19.01	18.72	18.96		
3	16QAM	8	7	19.12	18.98	18.95		
3	16QAM	15	0	18.86	18.91	18.86		
3	64QAM	1	0	18.71	18.95	18.92	20.1	0
3	64QAM	1	8	18.83	18.89	18.89		
3	64QAM	1	14	19.01	18.79	18.74		
3	64QAM	8	0	18.82	18.83	18.97	20.1	0
3	64QAM	8	4	18.93	19.03	19.11		
3	64QAM	8	7	18.88	18.72	19.05		
3	64QAM	15	0	18.86	18.88	19.12		
3	256QAM	1	0	17.45	17.69	17.65	18.8	1.3
3	256QAM	1	8	17.45	17.58	17.59		
3	256QAM	1	14	17.44	17.38	17.46		
3	256QAM	8	0	17.55	17.47	17.47	18.8	1.3
3	256QAM	8	4	17.46	17.41	17.24		
3	256QAM	8	7	17.38	17.44	17.19		
3	256QAM	15	0	17.39	17.41	17.21		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	19.09	18.88	19.07	20.1	0
1.4	QPSK	1	3	19.10	19.13	19.03		
1.4	QPSK	1	5	18.90	18.85	18.74		
1.4	QPSK	3	0	18.85	18.89	18.92		
1.4	QPSK	3	1	19.09	19.08	18.85		
1.4	QPSK	3	3	18.91	19.08	18.97		
1.4	QPSK	6	0	19.00	19.08	19.10	20.1	0
1.4	16QAM	1	0	18.89	18.79	18.94	20.1	0
1.4	16QAM	1	3	19.04	19.03	18.93		
1.4	16QAM	1	5

Band 30

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					27710			
Frequency (MHz)					2310			
10	QPSK	1	0		15.20		16.4	0
10	QPSK	1	25		15.09			
10	QPSK	1	49		15.14			
10	QPSK	25	0		15.12		16.4	0
10	QPSK	25	12		15.18			
10	QPSK	25	25		15.17			
10	QPSK	50	0		15.14			
10	16QAM	1	0		15.11		16.4	0
10	16QAM	1	25		15.11			
10	16QAM	1	49		15.14			
10	16QAM	25	0		15.14		16.4	0
10	16QAM	25	12		15.15			
10	16QAM	25	25		15.10			
10	16QAM	50	0		15.13			
10	64QAM	1	0		15.13		16.4	0
10	64QAM	1	25		15.10			
10	64QAM	1	49		15.17			
10	64QAM	25	0		15.10		16.4	0
10	64QAM	25	12		15.11			
10	64QAM	25	25		15.12			
10	64QAM	50	0		15.17			
10	256QAM	1	0		15.13		16.4	0
10	256QAM	1	25		14.94			
10	256QAM	1	49		14.97			
10	256QAM	25	0		15.13		16.4	0
10	256QAM	25	12		15.11			
10	256QAM	25	25		15.08			
10	256QAM	50	0		14.96			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	15.10	14.96	15.11	16.4	0
5	QPSK	1	12	15.08	15.12	15.02		
5	QPSK	1	24	14.95	15.07	15.11		
5	QPSK	12	0	15.14	14.91	15.09	16.4	0
5	QPSK	12	7	15.16	15.10	14.93		
5	QPSK	12	13	14.97	15.05	15.13		
5	QPSK	25	0	15.00	15.06	15.13		
5	16QAM	1	0	15.06	15.06	15.03	16.4	0
5	16QAM	1	12	14.92	15.14	14.98		
5	16QAM	1	24	15.08	15.14	14.95		
5	16QAM	12	0	15.11	14.99	15.10	16.4	0
5	16QAM	12	7	15.15	15.05	15.19		
5	16QAM	12	13	15.14	14.86	14.90		
5	16QAM	25	0	14.95	14.90	15.10		
5	64QAM	1	0	15.11	15.08	15.08	16.4	0
5	64QAM	1	12	14.98	14.96	15.14		
5	64QAM	1	24	15.06	15.15	15.00		
5	64QAM	12	0	15.01	14.86	15.09	16.4	0
5	64QAM	12	7	15.10	14.96	15.15		
5	64QAM	12	13	14.89	15.07	14.93		
5	64QAM	25	0	15.03	15.12	15.10		
5	256QAM	1	0	15.04	15.13	14.97	16.4	0
5	256QAM	1	12	14.93	15.16	15.13		
5	256QAM	1	24	14.93	14.99	15.00		
5	256QAM	12	0	14.98	14.94	14.88	16.4	0
5	256QAM	12	7	15.16	15.07	15.16		
5	256QAM	12	13	14.97	14.98	15.10		
5	256QAM	25	0	15.06	14.86	15.12		

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)				1720	1745	1770		
20	QPSK	1	0	14.97	15.05	15.03	15.9	0
20	QPSK	1	49	14.87	14.88	14.96		
20	QPSK	1	99	14.83	14.82	14.80		
20	QPSK	50	0	14.92	15.04	15.02	15.9	0
20	QPSK	50	24	14.80	14.84	14.80		
20	QPSK	50	50	14.99	14.81	14.82		
20	QPSK	100	0	14.75	14.96	14.81		
20	16QAM	1	0	14.90	14.91	14.97	15.9	0
20	16QAM	1	49	14.96	14.96	14.96		
20	16QAM	1	99	14.87	14.86	14.89		
20	16QAM	50	0	14.88	14.85	14.84	15.9	0
20	16QAM	50	24	14.85	14.84	14.89		
20	16QAM	50	50	14.88	14.82	14.83		
20	16QAM	100	0	14.83	14.88	14.86		
20	64QAM	1	0	14.87	14.93	14.91	15.9	0
20	64QAM	1	49	14.81	14.81	14.83		
20	64QAM	1	99	14.82	14.83	14.86		
20	64QAM	50	0	14.90	14.86	14.87	15.9	0
20	64QAM	50	24	14.88	14.83	14.83		
20	64QAM	50	50	14.87	14.83	14.82		
20	64QAM	100	0	14.84	14.82	14.88		
20	256QAM	1	0	14.83	14.79	14.72	15.9	0
20	256QAM	1	49	14.81	14.69	14.72		
20	256QAM	1	99	14.84	14.73	14.74		
20	256QAM	50	0	14.76	14.61	14.89	15.9	0
20	256QAM	50	24	14.90	14.68	14.73		
20	256QAM	50	50	14.70	14.66	14.58		
20	256QAM	100	0	14.69	14.87	14.85		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	14.89	14.82	14.99	15.9	0
15	QPSK	1	37	14.70	14.74	14.71		
15	QPSK	1	74	14.67	14.69	14.80		
15	QPSK	36	0	14.89	14.86	14.83	15.9	0
15	QPSK	36	20	14.83	14.69	14.84		
15	QPSK	36	39	14.94	14.61	14.62		
15	QPSK	75	0	14.52	14.74	14.61		
15	16QAM	1	0	14.80	14.80	14.91	15.9	0
15	16QAM	1	37	14.78	15.00	14.89		
15	16QAM	1	74	14.89	14.71	14.67		
15	16QAM	36	0	14.91	14.68	14.68	15.9	0
15	16QAM	36	20	14.76	14.89	14.87		
15	16QAM	36	39	14.80	14.61	14.72		
15	16QAM	75	0	14.73	14.82	14.72		
15	64QAM	1	0	14.62	14.84	14.92	15.9	0
15	64QAM	1	37	14.63	14.62	14.80		
15	64QAM	1	74	14.64	14.69	14.65		
15	64QAM	36	0	14.63	14.89	14.76	15.9	0
15	64QAM	36	20	14.82	14.75	14.85		
15	64QAM	36	39	14.91	14.59	14.76		
15	64QAM	75	0	14.77	14.83	14.69		
15	256QAM	1	0	14.98	14.91	14.91	15.9	0
15	256QAM	1	37	14.78	14.69	14.82		
15	256QAM	1	74	14.80	14.90	14.84		
15	256QAM	36	0	14.60	14.68	14.73	15.9	0
15	256QAM	36	20	14.77	14.73	14.79		
15	256QAM	36	39	14.62	14.89	14.70		
15	256QAM	75	0	14.64	14.89	14.94		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	14.92	14.99	15.00	15.9	0
10	QPSK	1	25	14.85	14.78	14.72		
10	QPSK	1	49	14.64	14.69	14.55		
10	QPSK	25	0	14.96	14.88	14.94	15.9	0
10	QPSK	25	12	14.71	14.74	14.82		
10	QPSK	25	25	14.90	14.76	14.62		
10	QPSK	50	0	14.51	14.79	14.84		
10	16QAM	1	0	14.73	14.74	14.74	15.9	0
10	16QAM	1	25	14.78	14.96	14.78		
10	16QAM	1	49	14.79	14.90	14.92		
10	16QAM	25	0	14.74	14.63	14.62	15.9	0
10	16QAM	25	12	14.76	14.85	14.65		
10	16QAM	25	25	14.81	14.66	14.84		
10	16QAM	50	0	14.63	14.84	14.82		
10	64QAM	1	0	14.89	14.80	14.81	15.9	0
10	64QAM	1	25	14.74	14.84	14.87		
10	64QAM	1	49	14.73	14.80	14.61		
10	64QAM	25	0	14.61	14.75	14.71	15.9	0
10	64QAM	25	12	14.84	14.84	14.67		
10	64QAM	25	25	14.92	14.72	14.80		
10	64QAM	50	0	14.87	14.80	14.77		
10	256QAM	1	0	14.82	14.99	14.81	15.9	0
10	256QAM	1	25	14.68	14.89	14.91		
10	256QAM	1	49	14.63	14.76	14.70		
10	256QAM	25	0	14.66	14.62	14.68	15.9	0
10	256QAM	25	12	14.69	14.73	14.76		
10	256QAM	25	25	14.72	14.64	14.90		
10	256QAM	50	0	14.90	14.72	14.82		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	14.72	14.94	14.89	15.9	0
5	QPSK	1	12	14.68	14.72	15.00		
5	QPSK	1	24	14.75	14.82	14.72		
5	QPSK	12	0	14.89	15.01	14.96	15.9	0
5	QPSK	12	7	14.68	14.64	14.64		
5	QPSK	12	13	14.97	14.79	14.68		
5	QPSK	25	0	14.77	15.00	14.77		
5	16QAM	1	0	14.67	14.99	14.98	15.9	0
5	16QAM	1	12	14.72	15.00	14.94		
5	16QAM	1	24	14.79	14.90	14.74		
5	16QAM	12	0	14.67	14.75	14.81	15.9	0
5	16QAM	12	7	14.83	14.83	14.84		
5	16QAM	12	13	14.70	14.66	14.60		
5	16QAM	25	0	14.82	14.91	14.81	15.9	0
5	64QAM	1	0	14.86	14.78	14.78		
5	64QAM	1	12	14.82	14.81	14.63		
5	64QAM	1	24	14.70	14.88	14.63		
5	64QAM	12	0	14.70	14.88	14.63	15.9	0
5	64QAM	12	7	14.92	14.79	14.86		
5	64QAM	12	13	14.68	14.83	14.78		
5	64QAM	25	0	14.71	14.64	14.69		
5	256QAM	1	0	14.78	14.73	14.95	15.9	0
5	256QAM	1	12	14.69	14.67	14.83		
5	256QAM	1	24	14.65	14.81	14.77		
5	256QAM	12	0	14.80	14.63	14.70	15.9	0
5	256QAM	12	7	14.88	14.68	14.81		
5	256QAM	12	13	14.84	14.64	14.62		
5	256QAM	25	0	14.83	14.61	14.83		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	14.77	14.93	15.01	15.9	0
3	QPSK	1	8	14.74	14.88	14.96		
3	QPSK	1	14	14.65	14.57	14.84		
3	QPSK	8	0	14.95	14.99	14.88	15.9	0
3	QPSK	8	4	14.62	14.67	14.68		
3	QPSK	8	7	14.83	14.62	14.63		
3	QPSK	15	0	14.69	14.81	14.57		
3	16QAM	1	0	14.78	14.79	14.73	15.9	0
3	16QAM	1	8	14.96	15.00	14.83		
3	16QAM	1	14	14.88	14.85	14.83		
3	16QAM	8	0	14.64	14.82	14.79	15.9	0
3	16QAM	8	4	14.83	14.76	14.73		
3	16QAM	8	7	14.79	14.86	14.75		
3	16QAM	15	0	14.77	14.83	14.70		
3	64QAM	1	0	14.75	14.89	14.91	15.9	0
3	64QAM	1	8	14.73	14.70	14.70		
3	64QAM	1	14	14.61	14.82	14.74		
3	64QAM	8	0	14.58	14.65	14.86	15.9	0
3	64QAM	8	4	14.77	14.69	14.88		
3	64QAM	8	7	14.65	14.72	14.72		
3	64QAM	15	0	14.85	14.87	14.78		
3	256QAM	1	0	14.91	14.82	14.75	15.9	0
3	256QAM	1	8	14.64	14.90	14.69		
3	256QAM	1	14	14.64	14.68	14.75		
3	256QAM	8	0	14.86	14.80	14.73	15.9	0
3	256QAM	8	4	14.76	14.59	14.78		
3	256QAM	8	7	14.67	14.89	14.80		
3	256QAM	15	0	14.68	14.96	14.75		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	14.88	14.92	15.03	15.9	0
1.4	QPSK	1	3	14.68	14.75	14.80		
1.4	QPSK	1	5	14.68	14.67	14.67		
1.4	QPSK	3	0	14.90	14.83	14.78		
1.4	QPSK	3	1	14.78	14.82	14.68		
1.4	QPSK	3	3	14.75	14.90	14.77		
1.4	QPSK	6	0	14.69	14.87	14.79	15.9	0
1.4	16QAM	1	0	14.67	14.85	14.78	15.9	0
1.4	16QAM	1	3	14.79	14.78	14.81		
1.4	16QAM	1	5	14.72	14.86	14.75		
1.4	16QAM	3	0	14.73	14.75	14.72		
1.4	16QAM	3	1	14.63	14.69	14.75		
1.4	16QAM	3	3	14.84	14.76	14.76		
1.4	16QAM	6	0	14.81	14.77	14.80	15.9	0
1.4	64QAM	1	0	14.64	14.68	14.83	15.9	0
1.4	64QAM	1	3	14.75	14.83	14.82		
1.4	64QAM	1	5	14.79	14.84	14.82		
1.4	64QAM	3	0	14.85	14.71	14.91		
1.4	64QAM	3	1	14.78	14.83	14.85		
1.4	64QAM	3	3	14.66	14.80	14.77		
1.4	64QAM	6	0	14.64	14.85	14.89	15.9	0
1.4	256QAM	1	0	14.90	14.95	14.95	15.9	0
1.4	256QAM	1	3	14.92	14.78	14.81		
1.4	256QAM	1	5	14.67	14.64	14.60		
1.4	256QAM	3	0	14.75	14.74	14.89		
1.4	256QAM	3	1	14.70	14.76	14.64		
1.4	256QAM	3	3	14.75	14.93	14.82		
1.4	256QAM	6	0	14.84	14.89	14.70	15.9	0

Band 71

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	683	688		
20	QPSK	1	0	20.02	20.09	20.04	21	0
20	QPSK	1	49	20.04	19.96	19.99		
20	QPSK	1	99	19.87	19.94	19.90		
20	QPSK	50	0	20.00	20.02	19.90	21	0
20	QPSK	50	24	20.02	20.07	20.02		
20	QPSK	50	50	19.96	20.04	20.03		
20	QPSK	100	0	19.98	20.06	20.00		
20	16QAM	1	0	20.05	20.06	20.04	21	0
20	16QAM	1	49	20.01	20.04	20.01		
20	16QAM	1	99	20.03	20.07	20.00		
20	16QAM	50	0	20.07	20.05	20.01	21	0
20	16QAM	50	24	20.03	20.04	19.90		
20	16QAM	50	50	20.06	20.08	20.04		
20	16QAM	100	0	20.08	20.06	19.96		
20	64QAM	1	0	20.04	20.07	20.02	21	0
20	64QAM	1	49	20.08	20.06	20.02		
20	64QAM	1	99	20.03	20.07	19.98		
20	64QAM	50	0	20.02	20.03	20.03	20.3	0.7
20	64QAM	50	24	20.04	20.00	20.00		
20	64QAM	50	50	19.97	20.05	20.03		
20	64QAM	100	0	20.01	19.90	20.03		
20	256QAM	1	0	18.20	18.26	18.26	18.8	2.2
20	256QAM	1	49	18.26	18.26	18.20		
20	256QAM	1	99	18.23	18.21	18.13		
20	256QAM	50	0	18.21	18.29	18.32	18.8	2.2
20	256QAM	50	24	18.14	18.11	18.20		
20	256QAM	50	50	18.03	18.12	18.03		
20	256QAM	100	0	18.04	18.03	18.34		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	19.79	19.88	19.91	21	0
15	QPSK	1	37	19.96	19.87	19.92		
15	QPSK	1	74	19.69	19.73	19.85		
15	QPSK	36	0	20.01	19.87	19.69	21	0
15	QPSK	36	20	19.92	19.97	19.92		
15	QPSK	36	39	19.84	19.93	19.81		
15	QPSK	75	0	19.77	19.94	19.89		
15	16QAM	1	0	19.80	20.03	20.06	21	0
15	16QAM	1	37	19.84	20.05	19.82		
15	16QAM	1	74	19.79	19.84	19.85		
15	16QAM	36	0	19.91	19.85	19.80	21	0
15	16QAM	36	20	19.86	19.86	19.79		
15	16QAM	36	39	19.85	20.03	19.81		
15	16QAM	75	0	19.89	20.09	19.83		
15	64QAM	1	0	20.08	19.82	20.07	21	0
15	64QAM	1	37	20.01	19.88	19.81		
15	64QAM	1	74	20.02	20.07	19.89		
15	64QAM	36	0	19.77	19.88	20.06	20.3	0.7
15	64QAM	36	20	19.83	19.82	20.00		
15	64QAM	36	39	19.88	19.90	19.91		
15	64QAM	75	0	19.85	19.87	19.94		
15	256QAM	1	0	18.11	18.13	18.18	18.8	2.2
15	256QAM	1	37	18.28	18.23	18.08		
15	256QAM	1	74	18.12	18.00	17.89		
15	256QAM	36	0	18.17	18.07	18.12	18.8	2.2
15	256QAM	36	20	18.11	18.16	18.09		
15	256QAM	36	39	17.91	18.00	18.06		
15	256QAM	75	0	17.91	17.86	18.25		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	19.98	19.89	19.94	21	0
10	QPSK	1	25	19.81	19.83	19.85		
10	QPSK	1	49	19.75	19.85	19.70		
10	QPSK	25	0	20.00	19.83	19.85	21	0
10	QPSK	25	12	19.81	19.87	19.96		
10	QPSK	25	25	19.74	19.85	19.89		
10	QPSK	50	0	19.95	19.90	19.86	21	0
10	16QAM	1	0	19.84	20.05	19.91		
10	16QAM	1	25	19.79	19.90	19.80		
10	16QAM	1	49	19.91	20.00	19.95		
10	16QAM	25	0	19.91	19.95	19.96	21	0
10	16QAM	25	12	19.82	19.92	19.92		
10	16QAM	25	25	19.82	19.95	20.04		
10	16QAM	50	0	19.96	19.90	19.92	21	0
10	64QAM	1	0	20.01	19.85	19.91		
10	64QAM	1	25	19.94	19.93	19.83		
10	64QAM	1	49	20.04	19.94	20.00		
10	64QAM	25	0	20.04	20.02	19.82	20.3	0.7
10	64QAM	25	12	20.00	19.97	20.01		
10	64QAM	25	25	19.72	19.81	19.88		
10	64QAM	50	0	19.90	19.95	19.95	21	0
10	256QAM	1	0	17.95	18.14	18.23	18.8	2.2
10	256QAM	1	25	18.14	18.16	18.11		
10	256QAM	1	49	18.18	18.23	18.06		
10	256QAM	25	0	18.15	18.19	18.30	18.8	2.2
10	256QAM	25	12	18.02	18.11	18.09		
10	256QAM	25	25	18.00	17.98	17.89		
10	256QAM	50	0	17.90	17.96	18.18	18.8	2.2
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	19.85	19.95	19.86	21	0
5	QPSK	1	12	19.89	19.99	19.95		
5	QPSK	1	24	19.85	19.94	19.68		
5	QPSK	12	0	19.99	20.09	19.71	21	0
5	QPSK	12	7	19.95	19.82	19.82		
5	QPSK	12	13	19.91	19.90	19.87		
5	QPSK	25	0	19.93	20.00	19.80	21	0
5	16QAM	1	0	19.94	19.90	20.07		
5	16QAM	1	12	19.77	19.97	20.03		
5	16QAM	1	24	20.08	20.02	19.98		
5	16QAM	12	0	19.90	20.02	20.03	21	0
5	16QAM	12	7	19.88	20.07	19.95		
5	16QAM	12	13	19.94	19.93	19.96		
5	16QAM	25	0	20.00	19.82	19.96	21	0
5	64QAM	1	0	19.84	19.86	19.90		
5	64QAM	1	12	19.93	19.94	20.07		
5	64QAM	1	24	19.88	19.91	19.90		
5	64QAM	12	0	19.80	20.04	20.01	20.3	0.7
5	64QAM	12	7	19.91	19.76	19.77		
5	64QAM	12	13	19.83	19.81	19.98		
5	64QAM	25	0	19.90	19.71	20.07		
5	256QAM	1	0	17.96	18.05	18.30	18.8	2.2
5	256QAM	1	12	18.19	18.27	17.99		
5	256QAM	1	24	18.04	18.24	18.15		
5	256QAM	12	0	18.09	18.21	18.15	18.8	2.2
5	256QAM	12	7	18.08	17.92	18.12		
5	256QAM	12	13	17.94	17.96	18.08		
5	256QAM	25	0	18.02	18.05	18.33		

Band 38(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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	16.06	16.02	15.91		
20	QPSK	1	49	16.01	15.99	15.92	17	0
20	QPSK	1	99	15.98	15.95	15.92		
20	QPSK	50	0	15.92	15.90	15.95		
20	QPSK	50	24	15.97	15.90	15.96	17	0
20	QPSK	50	50	15.93	15.94	15.95		
20	QPSK	100	0	15.96	15.95	15.93		
20	16QAM	1	0	15.98	15.90	15.99		
20	16QAM	1	49	15.90	15.93	15.94	17	0
20	16QAM	1	99	15.91	15.95	15.90		
20	16QAM	50	0	15.94	15.99	15.91		
20	16QAM	50	24	15.99	15.95	15.95	17	0
20	16QAM	50	50	15.93	15.93	15.98		
20	16QAM	100	0	15.94	15.97	15.95		
20	64QAM	1	0	15.91	15.84	15.89		
20	64QAM	1	49	15.97	15.97	15.97	17	0
20	64QAM	1	99	15.89	15.86	15.83		
20	64QAM	50	0	15.91	15.99	15.91		
20	64QAM	50	24	15.99	15.94	15.98	17	0
20	64QAM	50	50	15.92	15.90	15.91		
20	64QAM	100	0	15.91	15.96	15.92		
20	256QAM	1	0	15.95	15.71	15.72		
20	256QAM	1	49	15.89	15.76	15.92	16.3	0.7
20	256QAM	1	99	15.70	15.75	15.84		
20	256QAM	50	0	15.94	15.90	15.90		
20	256QAM	50	24	16.02	15.93	15.87	16.3	0.7
20	256QAM	50	50	15.73	15.85	15.70		
20	256QAM	100	0	15.80	15.90	15.67		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	15.95	15.77	15.55	17	0
15	QPSK	1	37	15.89	15.74	15.67		
15	QPSK	1	74	15.91	15.98	15.80		
15	QPSK	36	0	15.89	15.69	15.88	17	0
15	QPSK	36	20	15.98	15.67	15.74		
15	QPSK	36	39	15.87	15.70	15.88		
15	QPSK	75	0	15.87	15.95	15.96		
15	16QAM	1	0	15.82	15.73	15.91		
15	16QAM	1	37	15.65	15.71	15.72	17	0
15	16QAM	1	74	15.81	15.72	15.90		
15	16QAM	36	0	15.99	15.98	15.67		
15	16QAM	36	20	15.84	15.84	15.77	17	0
15	16QAM	36	39	15.91	15.80	16.03		
15	16QAM	75	0	15.86	16.02	15.99		
15	64QAM	1	0	15.78	15.84	15.65		
15	64QAM	1	37	15.95	15.80	15.77	17	0
15	64QAM	1	74	15.66	15.91	15.62		
15	64QAM	36	0	15.83	15.95	15.93		
15	64QAM	36	20	16.03	15.94	15.98	17	0
15	64QAM	36	39	15.67	15.81	15.87		
15	64QAM	75	0	15.92	15.93	15.76		
15	256QAM	1	0	15.90	15.55	15.68		
15	256QAM	1	37	15.90	15.62	15.71	16.3	0.7
15	256QAM	1	74	15.48	15.71	15.60		
15	256QAM	36	0	15.93	15.71	15.77		
15	256QAM	36	20	15.96	15.73	15.72	16.3	0.7
15	256QAM	36	39	15.69	15.88	15.65		
15	256QAM	75	0	15.82	15.74	15.46		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	16.08	15.99	15.81		
10	QPSK	1	25	15.78	15.79	15.77	17	0
10	QPSK	1	49	15.94	15.75	15.73		
10	QPSK	25	0	15.69	15.88	15.98		
10	QPSK	25	12	15.79	15.77	15.88	17	0
10	QPSK	25	25	15.76	15.92	15.83		
10	QPSK	50	0	15.84	15.80	15.68		
10	16QAM	1	0	15.80	15.72	15.89		
10	16QAM	1	25	15.90	15.95	15.86	17	0
10	16QAM	1	49	15.93	16.00	15.69		
10	16QAM	25	0	15.94	15.91	15.71		
10	16QAM	25	12	15.88	15.84	15.75	17	0
10	16QAM	25	25	15.84	15.68	15.96		
10	16QAM	50	0	15.69	15.83	15.73		
10	64QAM	1	0	15.85	15.59	15.69		
10	64QAM	1	25	15.99	15.99	15.90	17	0
10	64QAM	1	49	15.70	15.68	15.72		
10	64QAM	25	0	15.83	15.91	15.71		
10	64QAM	25	12	16.02	15.97	15.75	17	0
10	64QAM	25	25	15.83	15.68	15.66		
10	64QAM	50	0	15.78	15.92	15.90		
10	256QAM	1	0	15.83	15.67	15.53		
10	256QAM	1	25	15.75	15.65	15.79	16.3	0.7
10	256QAM	1	49	15.58	15.80	15.69		
10	256QAM	25	0	15.81	15.66	15.74		
10	256QAM	25	12	15.87	15.74	15.67	16.3	0.7
10	256QAM	25	25	15.78	15.70	15.71		
10	256QAM	50	0	15.69	15.83	15.70		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	15.99	15.81	15.69		
5	QPSK	1	12	15.95	16.00	15.70	17	0
5	QPSK	1	24	16.03	15.97	15.71		
5	QPSK	12	0	15.94	15.82	15.88		
5	QPSK	12	7	15.87	15.72	16.00	17	0
5	QPSK	12	13	15.74	15.77	15.72		
5	QPSK	25	0	15.77	15.84	15.87		
5	16QAM	1	0	15.87	15.86	16.00		
5	16QAM	1	12	15.90	15.80	15.71	17	0
5	16QAM	1	24	15.78	15.94	15.85		
5	16QAM	12	0	15.91	16.04	15.86		
5	16QAM	12	7	15.82	15.89	15.97	17	0
5	16QAM	12	13	15.79	15.84	15.96		
5	16QAM	25	0	15.95	15.77	15.86		
5	64QAM	1	0	15.77	15.65	15.70		
5	64QAM	1	12	15.72	16.02	15.97	17	0
5	64QAM	1	24	15.91	15.66	15.88		
5	64QAM	12	0	15.70	16.01	15.89		
5	64QAM	12	7	16.00	15.69	15.93	17	0
5	64QAM	12	13	15.70	15.65	15.85		
5	64QAM	25	0	15.95	15.71	15.90		
5	256QAM	1	0	15.90	15.52	15.53		
5	256QAM	1	12	15.89	15.55	15.86	16.3	0.7
5	256QAM	1	24	15.53	15.65	15.89		
5	256QAM	12	0	15.93	15.68	15.68		
5	256QAM	12	7	15.95	15.82	15.62	16.3	0.7
5	256QAM	12	13	15.65	15.67	15.53		
5	256QAM	25	0	15.56	15.66	15.43		

Band 41 (2.6G Band)--Class 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	16.09	16.05	16.00	16.07	16.06		
20	QPSK	1	49	16.06	16.11	16.09	16.03	16.04	17	0
20	QPSK	1	99	16.04	16.01	16.03	16.09	16.03		
20	QPSK	50	0	16.02	16.08	16.04	16.04	16.04		
20	QPSK	50	24	16.06	15.92	15.98	16.03	16.03	17	0
20	QPSK	50	50	16.07	16.09	15.93	15.90	16.06		
20	QPSK	100	0	16.02	16.06	16.04	16.04	16.00		
20	16QAM	1	0	16.01	16.03	15.96	15.93	16.03		
20	16QAM	1	49	16.05	16.09	15.90	16.08	16.01	17	0
20	16QAM	1	99	16.04	16.04	15.96	16.09	16.05		
20	16QAM	50	0	16.07	16.02	16.08	16.06	16.07		
20	16QAM	50	24	15.90	16.08	16.08	16.06	16.05	17	0
20	16QAM	50	50	16.05	15.95	15.96	15.92	16.07		
20	16QAM	100	0	16.05	16.08	16.05	16.07	16.03		
20	64QAM	1	0	15.91	15.83	15.98	16.01	15.81		
20	64QAM	1	49	15.86	15.89	15.98	15.97	15.78	17	0
20	64QAM	1	99	15.89	15.92	16.08	16.04	15.70		
20	64QAM	50	0	16.05	16.01	16.07	16.03	16.03		
20	64QAM	50	24	16.04	16.08	16.09	16.06	16.02	17	0
20	64QAM	50	50	16.01	15.93	15.95	15.92	16.07		
20	64QAM	100	0	16.05	16.09	16.08	16.04	16.01		
20	256QAM	1	0	15.94	15.90	15.85	15.95	15.83		
20	256QAM	1	49	15.99	15.90	15.67	16.01	16.02	16.3	0.7
20	256QAM	1	99	15.82	15.91	15.98	15.86	16.03		
20	256QAM	50	0	15.87	15.91	15.94	15.96	16.12		
20	256QAM	50	24	15.72	15.85	16.03	16.01	16.03	16.3	0.7
20	256QAM	50	50	15.90	15.96	15.74	15.71	15.90		
20	256QAM	100	0	16.06	15.84	15.95	15.91	15.86		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	16.12	15.99	15.91	15.85	15.89		
15	QPSK	1	37	15.92	15.97	15.94	15.91	16.03	17	0
15	QPSK	1	74	15.99	15.78	15.78	16.02	15.90		
15	QPSK	36	0	16.07	15.87	16.06	16.04	16.06		
15	QPSK	36	20	15.90	15.96	15.82	15.87	16.08	17	0
15	QPSK	36	39	15.92	15.95	15.80	15.80	15.95		
15	QPSK	75	0	15.82	16.11	15.99	16.07	15.94		
15	16QAM	1	0	15.98	15.86	15.92	15.94	15.90		
15	16QAM	1	37	15.88	16.02	15.81	15.84	15.77	17	0
15	16QAM	1	74	16.00	15.90	15.78	16.13	15.89		
15	16QAM	36	0	15.91	15.78	15.83	16.09	16.03		
15	16QAM	36	20	15.66	15.87	15.87	15.93	15.99	17	0
15	16QAM	36	39	15.84	15.75	15.78	15.86	15.97		
15	16QAM	75	0	16.09	16.10	16.08	16.04	15.85		
15	64QAM	1	0	15.91	15.85	15.73	15.90	15.67		
15	64QAM	1	37	15.74	15.77	15.84	15.93	15.68	17	0
15	64QAM	1	74	15.81	15.84	15.96	15.97	15.51		
15	64QAM	36	0	16.06	15.78	15.82	15.81	16.08		
15	64QAM	36	20	15.96	15.91	15.88	15.92	15.94	17	0
15	64QAM	36	39	16.06	15.89	15.83	15.76	15.85		
15	64QAM	75	0	16.08	15.86	15.99	16.07	15.83		
15	256QAM	1	0	15.97	15.90	15.81	15.68	15.90		
15	256QAM	1	37	15.98	16.08	15.72	15.95	16.05	16.3	0.7
15	256QAM	1	74	15.92	15.83	15.99	15.86	16.07		
15	256QAM	36	0	16.07	15.97	15.95	15.94	16.02		
15	256QAM	36	20	15.79	15.92	16.01	15.95	15.96	16.3	0.7
15	256QAM	36	39	16.09	15.92	15.95	15.89	16.05		
15	256QAM	75	0	15.99	15.83	15.82	15.95	15.96		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	16.03	15.91	15.76	15.90	16.02		
10	QPSK	1	25	15.88	16.05	15.89	15.91	15.79	17	0
10	QPSK	1	49	15.81	15.92	15.94	16.12	15.85		
10	QPSK	25	0	15.98	15.83	15.94	16.09	16.09		
10	QPSK	25	12	16.00	15.92	15.89	15.84	16.08	17	0
10	QPSK	25	25	15.85	15.85	15.82	15.89	15.98		
10	QPSK	50	0	15.94	15.91	15.97	16.07	15.97		
10	16QAM	1	0	15.96	15.98	15.78	15.88	15.89		
10	16QAM	1	25	16.07	16.01	15.69	15.96	16.03	17	0
10	16QAM	1	49	15.87	15.98	15.90	16.11	15.93		
10	16QAM	25	0	15.84	15.87	16.13	15.90	15.93		
10	16QAM	25	12	15.90	15.96	15.85	15.87	16.03	17	0
10	16QAM	25	25	15.92	15.95	15.95	15.94	15.97		
10	16QAM	50	0	16.10	15.83	16.02	15.91	15.95		
10	64QAM	1	0	15.73	15.66	15.80	15.86	15.73		
10	64QAM	1	25	15.81	15.79	15.76	15.87	15.72	17	0
10	64QAM	1	49	15.91	15.87	15.87	16.09	15.75		
10	64QAM	25	0	15.95	15.84	16.00	15.90	15.78		
10	64QAM	25	12	16.06	15.90	15.92	15.99	15.86	17	0
10	64QAM	25	25	16.06	15.96	15.89	15.74	16.12		
10	64QAM	50	0	15.83	16.10	16.01	16.08	15.76		
10	256QAM	1	0	15.98	15.91	15.77	15.73	15.86		
10	256QAM	1	25	15.90	16.06	15.91	15.96	15.89	16.3	0.7
10	256QAM	1	49	15.88	15.96	15.72	15.96	16.10		
10	256QAM	25	0	16.07	16.06	16.11	16.09	15.82		
10	256QAM	25	12	15.81	15.83	15.83	15.86	15.83	16.3	0.7
10	256QAM	25	25	16.08	15.83	15.98	15.73	15.88		
10	256QAM	50	0	16.01	15.84	15.86	15.96	15.83		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	16.14	16.04	15.81	16.11	16.01		
5	QPSK	1	12	16.11	15.97	15.96	16.03	15.92	17	0
5	QPSK	1	24	16.01	15.83	15.94	15.92	15.88		
5	QPSK	12	0	15.90	16.01	15.80	15.89	15.85		
5	QPSK	12	7	15.94	15.92	16.02	16.04	15.79	17	0
5	QPSK	12	13	15.90	15.84	15.71	15.94	16.08		
5	QPSK	25	0	15.85	16.07	15.95	16.06	15.95		
5	16QAM	1	0	16.02	15.82	15.84	15.79	16.08		
5	16QAM	1	12	15.90	15.94	15.73	16.09	15.76	17	0
5	16QAM	1	24	15.82	16.00	15.92	16.09	15.92		
5	16QAM	12	0	16.11	15.89	15.89	15.96	15.94		
5	16QAM	12	7	15.82	16.12	16.02	16.08	15.96	17	0
5	16QAM	12	13	15.91	15.70	15.97	15.67	16.03		
5	16QAM	25	0	15.85	15.97	15.88	16.07	15.97		
5	64QAM	1	0	15.71	15.83	16.03	15.77	15.64		
5	64QAM	1	12	15.83	15.90	15.77	15.75	15.63	17	0
5	64QAM	1	24	15.71	15.93	16.07	16.04	15.71		
5	64QAM	12	0	15.97	15.90	16.08	15.84	15.90		
5	64QAM	12	7	15.86	15.99	15.89	15.87	15.95	17	0
5	64QAM	12	13	15.89	15.71	15.85	15.93	15.89		
5	64QAM	25	0	15.98	15.86	16.09	15.88	15.93		
5	256QAM	1	0	15.78	15.93	15.81	15.94	15.79		
5	256QAM	1	12	15.82	15.87	15.74	16.00	15.82	16.3	0.7
5	256QAM	1	24	16.08	15.98	15.85	15.99	16.08		
5	256QAM	12	0	15.93	15.90	16.01	15.81	15.82		
5	256QAM	12	7	15.81	15.96	16.03	16.05	16.08	16.3	0.7
5	256QAM	12	13	15.81	15.71	15.98	15.76	16.05		
5	256QAM	25	0	16.02	15.88	15.95	15.83	15.94		

Band 41 (2.6G Band) HPUE (Limit 27)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	18.17	18.10	18.29	18.26	18.18		
20	QPSK	1	49	18.07	18.33	18.29	18.30	18.16	18.6	0
20	QPSK	1	99	18.10	18.25	18.28	18.23	18.11		
20	QPSK	50	0	18.11	18.11	18.12	18.10	18.12		
20	QPSK	50	24	18.10	18.11	18.14	18.10	18.11	18.6	0
20	QPSK	50	50	18.13	18.17	18.12	18.11	18.14		
20	QPSK	100	0	18.11	18.14	18.12	18.11	18.08		
20	16QAM	1	0	18.14	18.11	18.18	18.14	18.15		
20	16QAM	1	49	18.16	18.18	18.15	18.17	18.17	18.6	0
20	16QAM	1	99	18.11	18.12	18.16	18.12	18.12		
20	16QAM	50	0	18.16	18.13	18.16	18.14	18.17		
20	16QAM	50	24	18.16	18.13	18.17	18.16	18.17	18.6	0
20	16QAM	50	50	18.18	18.12	18.18	18.12	18.19		
20	16QAM	100	0	18.12	18.11	18.18	18.15	18.13		
20	64QAM	1	0	18.13	18.27	18.14	18.14	18.14		
20	64QAM	1	49	18.26	18.16	18.14	18.12	18.27	18.6	0
20	64QAM	1	99	18.28	18.19	18.13	18.19	18.29		
20	64QAM	50	0	18.13	18.19	18.14	18.13	18.14		
20	64QAM	50	24	18.13	18.11	18.10	18.13	18.14	18.6	0
20	64QAM	50	50	18.17	18.17	18.13	18.18	18.18		
20	64QAM	100	0	18.11	18.19	18.15	18.12	18.12		
20	256QAM	1	0	18.12	18.09	18.03	18.00	18.15		
20	256QAM	1	49	18.11	18.10	17.98	18.11	18.04	18.6	0
20	256QAM	1	99	18.14	18.07	17.92	18.05	17.93		
20	256QAM	50	0	17.93	17.97	18.14	18.07	18.15		
20	256QAM	50	24	18.20	17.93	18.19	18.04	17.94	18.6	0
20	256QAM	50	50	18.19	18.15	18.01	18.16	18.10		
20	256QAM	100	0	17.89	18.09	17.99	18.10	18.17		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.12	18.12	18.17	18.26	18.04		
15	QPSK	1	37	18.06	18.24	18.08	18.25	18.05	18.6	0
15	QPSK	1	74	18.08	18.16	18.26	18.25	18.08		
15	QPSK	36	0	18.10	17.97	18.02	18.09	18.10		
15	QPSK	36	20	17.97	18.03	18.11	18.00	18.10	18.6	0
15	QPSK	36	39	18.01	18.00	18.11	18.08	17.91		
15	QPSK	75	0	17.98	18.13	18.15	18.16	17.98		
15	16QAM	1	0	17.95	17.88	18.05	18.06	18.11		
15	16QAM	1	37	18.14	18.06	18.06	18.14	18.02	18.6	0
15	16QAM	1	74	18.07	17.98	17.92	17.88	18.09		
15	16QAM	36	0	17.95	18.18	18.08	18.06	18.17		
15	16QAM	36	20	18.16	18.17	17.95	17.92	18.13	18.6	0
15	16QAM	36	39	18.23	17.99	17.93	18.17	18.21		
15	16QAM	75	0	18.15	18.09	18.11	17.94	17.93		
15	64QAM	1	0	17.94	18.12	18.14	17.91	17.98		
15	64QAM	1	37	18.15	18.00	17.96	18.13	18.29	18.6	0
15	64QAM	1	74	18.08	18.20	17.91	18.11	18.29		
15	64QAM	36	0	18.07	18.06	17.98	18.00	17.96		
15	64QAM	36	20	17.88	18.05	18.07	18.07	17.89	18.6	0
15	64QAM	36	39	18.13	18.10	18.13	18.02	18.00		
15	64QAM	75	0	17.91	18.04	18.02	18.15	17.96		
15	256QAM	1	0	18.04	18.04	18.15	17.91	18.01		
15	256QAM	1	37	18.11	18.17	18.14	18.06	18.12	18.6	0
15	256QAM	1	74	18.08	18.08	18.05	18.21	18.09		
15	256QAM	36	0	18.00	18.06	18.02	18.00	17.97		
15	256QAM	36	20	18.00	18.16	17.95	18.12	17.95	18.6	0
15	256QAM	36	39	18.19	17.99	17.95	18.10	18.04		
15	256QAM	75	0	18.03	18.05	18.04	18.10	18.05		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.98	18.06	18.12	18.28	18.14		
10	QPSK	1	25	18.03	18.27	18.07	18.17	18.17	18.6	0
10	QPSK	1	49	18.11	18.08	18.04	18.26	18		
10	QPSK	25	0	18.02	17.99	18.06	17.89	17.88		
10	QPSK	25	12	17.97	18.04	17.89	17.98	18.07	18.6	0
10	QPSK	25	25	18.01	18.04	17.92	18.04	18.09		
10	QPSK	50	0	17.95	18.17	18.01	17.91	17.99		
10	16QAM	1	0	17.93	18.09	18.22	18.11	18.11		
10	16QAM	1	25	18.14	17.98	17.92	18.06	18.01	18.6	0
10	16QAM	1	49	17.94	18.11	18.19	18	18.17		
10	16QAM	25	0	17.97	18.13	18.1	18.18	18.07		
10	16QAM	25	12	18.06	17.9	17.98	17.92	18.15	18.6	0
10	16QAM	25	25	18.05	17.94	18.03	17.94	18.07		
10	16QAM	50	0	18.16	17.96	18.16	18.13	17.99		
10	64QAM	1	0	18.10	18.02	17.94	17.91	18.01		
10	64QAM	1	25	18.24	17.97	18.09

Band 48 (3.5G Band)--FCC

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	16.25	16.26	16.26	16.42	17.2	0
20	QPSK	1	49	16.35	16.19	16.19	16.32		
20	QPSK	1	99	16.28	16.36	16.31	16.20		
20	QPSK	50	0	16.38	16.29	16.35	16.39	17.2	0
20	QPSK	50	24	16.27	16.31	16.28	16.41		
20	QPSK	50	50	16.21	16.37	16.24	16.25		
20	QPSK	100	0	16.35	16.32	16.30	16.40		
20	16QAM	1	0	16.23	16.27	16.27	16.34	17.2	0
20	16QAM	1	49	16.07	16.19	16.07	16.27		
20	16QAM	1	99	16.15	16.05	16.18	16.17		
20	16QAM	50	0	16.30	16.29	16.20	16.33	17.2	0
20	16QAM	50	24	16.37	16.23	16.34	16.37		
20	16QAM	50	50	16.29	16.23	16.26	16.23		
20	16QAM	100	0	16.24	16.25	16.30	16.26		
20	64QAM	1	0	16.32	16.25	16.36	16.40	17.2	0
20	64QAM	1	49	16.30	16.12	16.32	16.27		
20	64QAM	1	99	16.11	16.15	16.09	16.37		
20	64QAM	50	0	16.30	16.26	16.33	16.25	17.2	0
20	64QAM	50	24	16.25	16.32	16.25	16.26		
20	64QAM	50	50	16.20	16.27	16.18	16.27		
20	64QAM	100	0	16.28	16.21	16.27	16.23		
20	256QAM	1	0	16.15	16.22	16.16	16.08	17.2	0
20	256QAM	1	49	15.92	16.06	16.07	15.93		
20	256QAM	1	99	15.99	15.88	15.98	15.95		
20	256QAM	50	0	16.29	16.18	16.26	16.31	17.2	0
20	256QAM	50	24	16.38	16.21	16.30	16.40		
20	256QAM	50	50	16.17	16.16	16.20	16.32		
20	256QAM	100	0	16.21	16.24	16.17	16.38		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	16.24	16.19	16.23	16.24	17.2	0
15	QPSK	1	37	16.34	16.19	15.95	16.36		
15	QPSK	1	74	16.22	16.33	16.07	16.06		
15	QPSK	36	0	16.13	16.31	16.21	16.14	17.2	0
15	QPSK	36	20	16.28	16.18	16.12	16.26		
15	QPSK	36	39	16.14	16.22	16.12	16.08		
15	QPSK	75	0	16.32	16.33	16.33	16.23		
15	16QAM	1	0	16.18	16.24	16.27	16.18	17.2	0
15	16QAM	1	37	15.92	16.15	15.90	16.18		
15	16QAM	1	74	15.93	16.01	16.11	16.14		
15	16QAM	36	0	16.27	16.15	16.08	16.31	17.2	0
15	16QAM	36	20	16.13	16.00	16.35	16.22		
15	16QAM	36	39	16.07	16.11	16.05	16.19		
15	16QAM	75	0	16.09	16.26	16.31	16.18		
15	64QAM	1	0	16.14	16.13	16.22	16.28	17.2	0
15	64QAM	1	37	16.10	16.17	16.28	16.12		
15	64QAM	1	74	15.92	16.16	16.08	16.33		
15	64QAM	36	0	16.33	16.17	16.14	16.30	17.2	0
15	64QAM	36	20	16.05	16.09	16.13	16.04		
15	64QAM	36	39	16.00	16.24	16.02	16.24		
15	64QAM	75	0	16.13	16.07	16.25	16.00		
15	256QAM	1	0	16.01	16.24	16.18	16.13	17.2	0
15	256QAM	1	37	16.18	16.20	16.13	16.06		
15	256QAM	1	74	16.08	16.24	16.24	16.11		
15	256QAM	36	0	15.94	16.07	15.94	16.29	17.2	0
15	256QAM	36	20	16.20	15.86	16.01	16.19		
15	256QAM	36	39	16.17	16.01	16.08	16.14		
15	256QAM	75	0	16.07	16.02	16.05	16.37		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	16.10	16.09	16.13	16.21	17.2	0
10	QPSK	1	25	16.37	16.24	16.04	16.24		
10	QPSK	1	49	16.32	16.31	16.36	16.18		
10	QPSK	25	0	16.13	16.16	16.25	16.21	17.2	0
10	QPSK	25	12	16.13	16.33	16.04	16.17		
10	QPSK	25	25	16.21	16.42	16.04	16.24		
10	QPSK	50	0	16.34	16.07	16.23	16.39		
10	16QAM	1	0	15.99	16.12	16.10	16.14	17.2	0
10	16QAM	1	25	16.08	16.03	15.98	16.29		
10	16QAM	1	49	16.06	15.99	16.20	15.97		
10	16QAM	25	0	16.16	16.05	16.12	16.14	17.2	0
10	16QAM	25	12	16.12	16.26	16.09	16.33		
10	16QAM	25	25	16.13	16.16	16.10	16.20		
10	16QAM	50	0	16.19	16.26	16.22	16.12		
10	64QAM	1	0	16.27	16.27	16.29	16.36	17.2	0
10	64QAM	1	25	16.35	16.15	16.08	16.05		
10	64QAM	1	49	16.15	16.17	16.02	16.36		
10	64QAM	25	0	16.18	16.01	16.10	16.01	17.2	0
10	64QAM	25	12	16.02	16.32	16.25	16.01		
10	64QAM	25	25	16.10	16.13	16.22	16.23		
10	64QAM	50	0	16.11	15.97	16.11	16.19		
10	256QAM	1	0	15.96	16.13	16.17	16.24	17.2	0
10	256QAM	1	25	16.27	16.35	16.06	16.18		
10	256QAM	1	49	16.15	16.28	16.08	16.09		
10	256QAM	25	0	15.90	15.94	15.83	16.17	17.2	0
10	256QAM	25	12	15.90	15.84	16.16	16.09		
10	256QAM	25	25	16.18	16.07	16.10	16.31		
10	256QAM	50	0	16.10	16.12	16.07	16.36		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	16.07	16.07	16.30	16.38	17.2	0
5	QPSK	1	12	16.13	16.02	16.14	16.33		
5	QPSK	1	24	16.11	16.38	16.06	15.96		
5	QPSK	12	0	16.14	16.19	16.35	16.32	17.2	0
5	QPSK	12	7	16.06	16.11	16.12	16.38		
5	QPSK	12	13	16.24	16.22	16.00	16.26		
5	QPSK	25	0	16.33	16.08	16.14	16.36		
5	16QAM	1	0	16.07	16.16	16.04	16.22	17.2	0
5	16QAM	1	12	15.87	16.09	15.90	16.03		
5	16QAM	1	24	15.97	16.08	16.04	15.92		
5	16QAM	12	0	16.35	16.15	16.09	16.29	17.2	0
5	16QAM	12	7	16.13	16.02	16.39	16.32		
5	16QAM	12	13	16.29	16.08	16.04	16.14		
5	16QAM	25	0	16.04	16.06	16.26	16.08		
5	64QAM	1	0	16.37	16.18	16.29	16.42	17.2	0
5	64QAM	1	12	16.32	15.99	16.14	16.28		
5	64QAM	1	24	15.92	16.20	16.13	16.15		
5	64QAM	12	0	16.19	16.10	16.24	16.05	17.2	0
5	64QAM	12	7	16.30	16.21	16.12	16.24		
5	64QAM	12	13	16.05	16.10	16.07	16.18		
5	64QAM	25	0	16.32	15.96	16.24	16.00		
5	256QAM	1	0	16.16	16.35	16.13	16.17	17.2	0
5	256QAM	1	12	16.36	16.31	16.19	16.06		
5	256QAM	1	24	16.08	16.26	16.32	16.01		
5	256QAM	12	0	15.98	16.08	15.97	16.24	17.2	0
5	256QAM	12	7	16.08	16.06	15.98	16.12		
5	256QAM	12	13	16.14	16.00	16.11	16.18		
5	256QAM	25	0	16.26	16.13	15.94	16.13		

Reduced power level 3/4 for Head-UAT

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	27.13	27.05	26.89	27.90	18.13	18.05	17.89	18.90
GPRS 1 Tx slot	27.14	27.13	26.99	27.90	18.14	18.13	17.99	18.90
GPRS 2 Tx slots	24.06	23.92	23.82	25.40	18.06	17.92	17.82	19.40
GPRS 3 Tx slots	22.07	22.19	22.25	23.90	17.81	17.93	17.99	19.64
GPRS 4 Tx slots	20.97	20.84	20.74	22.60	17.97	17.84	17.74	19.60
EDGE 1 Tx slot	23.69	23.55	23.65	25.30	14.69	14.55	14.65	16.30
EDGE 2 Tx slots	22.08	22.06	21.97	23.30	16.08	16.06	15.97	17.30
EDGE 3 Tx slots	20.86	20.88	20.79	22.30	16.60	16.62	16.53	18.04
EDGE 4 Tx slots	19.56	19.60	19.70	20.70	16.56	16.60	16.70	17.70

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	21.61	21.72	21.63	22.30	12.61	12.72	12.63	13.30
GPRS 1 Tx slot	21.59	21.70	21.60	22.30	12.59	12.70	12.60	13.30
GPRS 2 Tx slots	18.70	18.88	18.65	19.80	12.70	12.88	12.65	13.80
GPRS 3 Tx slots	17.41	17.47	17.60	18.50	13.15	13.21	13.34	14.24
GPRS 4 Tx slots	15.85	15.93	15.96	17.00	12.85	12.93	12.96	14.00
EDGE 1 Tx slot	21.77	21.93	21.77	22.80	12.77	12.93	12.77	13.80
EDGE 2 Tx slots	18.75	18.91	18.81	19.70	12.75	12.91	12.81	13.70
EDGE 3 Tx slots	16.96	17.27	17.10	18.10	12.70	13.01	12.84	13.84
EDGE 4 Tx slots	15.48	15.80	15.65	17.10	12.48	12.80	12.65	14.10

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	14.07	14.15	14.06	15.10	13.85	13.98	14.02	15.20	18.17	18.18	18.10	19.20
3GPP Rel 99	RMC 12.2Kbps	14.09	14.18	14.09	15.10	13.87	14.01	14.04	15.20	18.19	18.20	18.13	19.20
3GPP Rel 6	HSDPA Subtest-1	13.14	13.24	13.16	14.10	12.88	13.05	13.04	14.20	17.01	16.92	16.88	18.20
3GPP Rel 6	HSDPA Subtest-2	13.10	13.21	13.16	14.10	12.91	13.07	13.07	14.20	16.99	16.94	16.89	18.20
3GPP Rel 6	HSDPA Subtest-3	12.30	12.74	12.61	13.60	12.42	12.55	12.56	13.70	16.53	16.46	16.34	17.70
3GPP Rel 6	HSDPA Subtest-4	12.64	12.72	12.63	13.60	12.45	12.56	12.53	13.70	16.52	16.43	16.35	17.70
3GPP Rel 8	DC-HSDPA Subtest-1	12.90	13.02	12.93	14.10	12.68	12.81	12.87	14.20	16.83	16.69	16.72	18.20
3GPP Rel 8	DC-HSDPA Subtest-2	12.94	13.07	12.98	14.10	12.76	12.87	12.90	14.20	16.80	16.79	16.68	18.20
3GPP Rel 8	DC-HSDPA Subtest-3	12.08	12.53	12.40	13.60	12.27	12.40	12.37	13.70	16.34	16.22	16.20	17.70
3GPP Rel 8	DC-HSDPA Subtest-4	12.44	12.58	12.41	13.60	12.31	12.34	12.31	13.70	16.35	16.26	16.12	17.70
3GPP Rel 6	HSUPA Subtest-1	13.13	13.28	13.16	14.10	12.94	13.14	13.11	14.20	16.99	16.92	16.92	18.20
3GPP Rel 6	HSUPA Subtest-2	12.15	12.25	12.19	13.10	11.90	12.12	12.07	13.20	15.00	14.92	14.88	16.20
3GPP Rel 6	HSUPA Subtest-3	10.14	10.23	10.21	11.10	10.79	11.06	10.98	12.20	15.85	15.91	15.88	17.20
3GPP Rel 6	HSUPA Subtest-4	10.92	11.02	10.99	12.10	11.78	11.91	11.86	12.20	14.99	14.88	14.93	16.20
3GPP Rel 6	HSUPA Subtest-5	13.10	13.27	13.15	14.10	12.99	13.04	13.05	14.20	17.04	16.92	16.87	18.20
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	10.71	10.81	10.72	12.60	11.66	11.81	11.70	12.70	14.67	14.63	14.70	15.70

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1960	1908.75		817.9	820.5	823.1	
RC1 SO55	17.53	17.59	17.51	18.90	13.04	13.10	13.03	14.00	16.39	16.42	16.36	17.90
RC3 SO55	17.52	17.57	17.50	18.90	13.03	13.09	13.01	14.00	16.37	16.40	16.35	17.90
RC3 SO32 (F-SCH)	17.50	17.56	17.48	18.90	13.01	13.08	12.99	14.00	16.36	16.38	16.33	17.90
RC3 SO32 (+SCH)	17.48	17.54	17.47	18.90	12.99	13.06	12.98	14.00	16.34	16.37	16.31	17.90
RTAP 153.6Kbps	17.47	17.52	17.45	18.90	12.98	13.04	12.96	14.00	16.32	16.36	16.30	17.90
RETAP 4GKBits	17.45	17.51	17.43	18.90	12.96	13.02	12.95	14.00	16.31	16.34	16.28	17.90

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				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	12.38	12.53	12.51		
20	QPSK	1	49	12.42	12.42	12.31	13.6	0
20	QPSK	1	99	12.36	12.33	12.19		
20	QPSK	50	0	12.46	12.50	12.41		
20	QPSK	50	24	12.48	12.49	12.42	13.6	0
20	QPSK	50	50	12.49	12.45	12.31		
20	QPSK	100	0	12.46	12.47	12.46		
20	16QAM	1	0	12.39	12.43	12.40		
20	16QAM	1	49	12.36	12.48	12.21	13.6	0
20	16QAM	1	99	12.30	12.30	12.23		
20	16QAM	50	0	12.40	12.47	12.37		
20	16QAM	50	24	12.27	12.44	12.39	13.6	0
20	16QAM	50	50	12.44	12.23	12.38		
20	16QAM	100	0	12.44	12.23	12.49		
20	64QAM	1	0	12.38	12.39	12.33		
20	64QAM	1	49	12.32	12.46	12.40	13.6	0
20	64QAM	1	99	12.36	12.44	12.37		
20	64QAM	50	0	12.47	12.49	12.32		
20	64QAM	50	24	12.47	12.28	12.49	13.6	0
20	64QAM	50	50	12.49	12.46	12.20		
20	64QAM	100	0	12.21	12.49	12.23		
20	256QAM	1	0	12.43	12.39	12.32		
20	256QAM	1	49	12.26	12.25	12.28	13.6	0
20	256QAM	1	99	12.19	12.13	12.26		
20	256QAM	50	0	12.44	12.17	12.39		
20	256QAM	50	24	12.43	12.32	12.21	13.6	0
20	256QAM	50	50	12.15	12.21	12.27		
20	256QAM	100	0	12.35	12.27	12.34		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	12.42	12.42	12.44		
15	QPSK	1	37	12.31	12.37	12.29	13.6	0
15	QPSK	1	74	12.24	12.21	12.10		
15	QPSK	36	0	12.24	12.52	12.45		
15	QPSK	36	20	12.36	12.28	12.18	13.6	0
15	QPSK	36	39	12.26	12.28	12.31		
15	QPSK	75	0	12.38	12.32	12.34		
15	16QAM	1	0	12.37	12.24	12.34		
15	16QAM	1	37	12.29	12.30	11.99	13.6	0
15	16QAM	1	74	12.17	12.26	11.98		
15	16QAM	36	0	12.25	12.45	12.30		
15	16QAM	36	20	12.03	12.25	12.38	13.6	0
15	16QAM	36	39	12.29	12.04	12.43		
15	16QAM	75	0	12.42	12.17	12.34		
15	64QAM	1	0	12.13	12.19	12.38		
15	64QAM	1	37	12.33	12.49	12.22	13.6	0
15	64QAM	1	74	12.17	12.33	12.14		
15	64QAM	36	0	12.30	12.34	12.36		
15	64QAM	36	20	12.25	12.14	12.34	13.6	0
15	64QAM	36	39	12.32	12.29	12.01		
15	64QAM	75	0	12.07	12.45	12.02		
15	256QAM	1	0	12.37	12.39	12.34		
15	256QAM	1	37	12.37	12.48	12.42	13.6	0
15	256QAM	1	74	12.29	12.21	12.16		
15	256QAM	36	0	12.30	12.23	12.12		
15	256QAM	36	20	12.10	12.10	12.20	13.6	0
15	256QAM	36	39	12.12	12.03	12.25		
15	256QAM	75	0	12.25	12.21	12.19		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	12.39	12.56	12.37		
10	QPSK	1	25	12.47	12.37	12.20	13.6	0
10	QPSK	1	49	12.13	12.14	12.18		
10	QPSK	25	0	12.38	12.39	12.20		
10	QPSK	25	12	12.36	12.46	12.20	13.6	0
10	QPSK	25	25	12.25	12.29	12.29		
10	QPSK	50	0	12.23	12.46	12.46		
10	16QAM	1	0	12.23	12.28	12.28		
10	16QAM	1	25	12.38	12.45	12.13	13.6	0
10	16QAM	1	49	12.21	12.10	12.11		
10	16QAM	25	0	12.25	12.37	12.16		
10	16QAM	25	12	12.11	12.35	12.25	13.6	0
10	16QAM	25	25	12.37	12.11	12.28		
10	16QAM	50	0	12.39	12.26	12.43		
10	64QAM	1	0	12.38	12.23	12.38		
10	64QAM	1	25	12.33	12.28	12.26	13.6	0
10	64QAM	1	49	12.35	12.21	12.32		
10	64QAM	25	0	12.42	12.44	12.08		
10	64QAM	25	12	12.50	12.06	12.54	13.6	0
10	64QAM	25	25	12.52	12.24	12.24		
10	64QAM	50	0	12.06	12.35	12.10		
10	256QAM	1	0	12.40	12.18	12.24		
10	256QAM	1	25	12.51	12.22	12.24	13.6	0
10	256QAM	1	49	12.16	12.34	12.23		
10	256QAM	25	0	12.11	12.44	12.05		
10	256QAM	25	12	12.22	12.30	12.15	13.6	0
10	256QAM	25	25	12.11	12.02	12.30		
10	256QAM	50	0	12.23	12.18	12.31		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	12.32	12.58	12.29		
5	QPSK	1	12	12.24	12.23	12.34	13.6	0
5	QPSK	1	24	12.26	12.22	12.20		
5	QPSK	12	0	12.44	12.40	12.46		
5	QPSK	12	7	12.48	12.34	12.22	13.6	0
5	QPSK	12	13	12.30	12.31	12.34		
5	QPSK	25	0	12.33	12.36	12.27		
5	16QAM	1	0	12.27	12.22	12.28		
5	16QAM	1	12	12.16	12.26	12.18	13.6	0
5	16QAM	1	24	12.23	12.21	12.14		
5	16QAM	12	0	12.30	12.30	12.26		
5	16QAM	12	7	12.04	12.28	12.17	13.6	0
5	16QAM	12	13	12.25	12.27	12.34		
5	16QAM	25	0	12.42	12.01	12.51		
5	64QAM	1	0	12.15	12.27	12.12		
5	64QAM	1	12	12.19	12.29	12.40	13.6	0
5	64QAM	1	24	12.11	12.44	12.42		
5	64QAM	12	0	12.37	12.32	12.20		
5	64QAM	12	7	12.48	12.21	12.35	13.6	0
5	64QAM	12	13	12.36	12.39	12.15		
5	64QAM	25	0	12.23	12.26	12.27		
5	256QAM	1	0	12.41	12.40	12.23		
5	256QAM	1	12	12.25	12.42	12.24	13.6	0
5	256QAM	1	24	12.43	12.26	12.34		
5	256QAM	12	0	12.20	12.34	12.02		
5	256QAM	12	7	12.21	12.09	12.01	13.6	0
5	256QAM	12	13	12.05	12.00	12.11		
5	256QAM	25	0	12.16	12.26	12.09		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	12.27	12.40	12.44		
3	QPSK	1	8	12.42	12.19	12.18	13.6	0
3	QPSK	1	14	12.14	12.24	11.99		
3	QPSK	8	0	12.44	12.33	12.33		
3	QPSK	8	4	12.24	12.37	12.31	13.6	0
3	QPSK	8	7	12.48	12.46	12.19		
3	QPSK	15	0	12.22	12.23	12.31		
3	16QAM	1	0	12.34	12.36	12.39		
3	16QAM	1	8	12.40	12.28	12.16	13.6	0
3	16QAM	1	14	12.23	12.05	12.22		
3	16QAM	8	0	12.45	12.42	12.21		
3	16QAM	8	4	12.02	12.39	12.26	13.6	0
3	16QAM	8	7	12.27	12.24	12.13		
3	16QAM	15	0	12.20	12.15	12.26		
3	64QAM	1	0	12.17	12.26	12.22		
3	64QAM	1	8	12.09	12.27	12.17	13.6	0
3	64QAM	1	14	12.31	12.29	12.25		
3	64QAM	8	0	12.25	12.48	12.07		
3	64QAM	8	4	12.25	12.33	12.25	13.6	0
3	64QAM	8	7	12.28	12.23	12.01		
3	64QAM	15	0	12.08	12.25	12.08		
3	256QAM	1	0	12.30	12.44	12.16		
3	256QAM	1	8	12.50	12.42	12.31	13.6	0
3	256QAM	1	14	12.20	12.25	12.36		
3	256QAM	8	0	12.30	12.35	12.11		
3	256QAM	8	4	12.23	12.07	12.19	13.6	0
3	256QAM	8	7	11.93	12.05	12.24		
3	256QAM	15	0	12.21	12.09	12.11		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	12.29	12.54	12.35		
1.4	QPSK	1	3	12.24	12.29	12.11		
1.4	QPSK	1	5	12.33	12.15	12.19	13.6	0
1.4	QPSK	3	0	12.49	12.26	12.29		
1.4	QPSK	3	1	12.34	12.54	12.26		
1.4	QPSK	3	3	12.26	12.36	12.30		
1.4	QPSK	6	0	12.45	12.47	12.23	13.6	0
1.4	16QAM	1	0	12.28	12.31	12.45		
1.4	16QAM	1	3	12.25	12.52	12.07		
1.4	16QAM	1	5	12.34	12.10	12.25	13.6	0
1.4	16QAM	3	0	12.25	12.50	12.20		
1.4	16QAM	3	1	12.03	12.49	12.36		
1.4	16QAM	3	3	12.27	12.24	12.36		
1.4	16QAM	6	0	12.34	12.14	12.32	13.6	0
1.4	64QAM	1	0	12.36	12.19	12.12		
1.4	64QAM	1	3	12.08	12.24	12.40		
1.4	64QAM	1	5	12.17	12.36	12.32	13.6	0
1.4	64QAM	3	0	12.36	12.40	12.35		
1.4	64QAM	3	1	12.32	12.06	12.54		
1.4	64QAM	3	3	12.26	12.41	12.17		
1.4	64QAM	6	0	12.15	12.28	12.18	13.6	0
1.4	256QAM	1	0	12.29	12.27	12.13		
1.4	256QAM	1	3	12.50	12.31	12.42		
1.4	256QAM	1	5	12.38	12.43	12.29	13.6	0
1.4	256QAM	3	0	12.15	12.46	12.17		
1.4	256QAM	3	1	12.34	12.39	12.09		
1.4	256QAM	3	3	12.04	12.17	12.07		
1.4	256QAM	6	0	12.39	12.10	12.27	13.6	0

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				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	12.37	12.38	12.29		
20	QPSK	1	49	11.96	12.00	12.22	13.3	0
20	QPSK	1	99	11.88	12.03	12.23		
20	QPSK	50	0	12.18	12.36	12.34		
20	QPSK	50	24	12.23	12.20	12.35	13.3	0
20	QPSK	50	50	12.14	12.23	12.31		
20	QPSK	100	0	12.15	12.18	12.17		
20	16QAM	1	0	12.30	12.29	12.25		
20	16QAM	1	49	12.29	12.20	12.28	13.3	0
20	16QAM	1	99	12.31	12.25	12.21		
20	16QAM	50	0	12.20	12.35	12.13		
20	16QAM	50	24	12.26	12.27	12.21	13.3	0
20	16QAM	50	50	12.24	12.32	12.27		
20	16QAM	100	0	12.21	12.23	12.23		
20	64QAM	1	0	12.11	12.08	12.22		
20	64QAM	1	49	12.19	12.12	12.13	13.3	0
20	64QAM	1	99	11.97	12.10	12.13		
20	64QAM	50	0	12.35	12.37	12.19		
20	64QAM	50	24	12.34	12.11	12.30	13.3	0
20	64QAM	50	50	12.26	12.32	12.12		
20	64QAM	100	0	12.31	12.34	12.33		
20	256QAM	1	0	12.12	12.17	12.08		
20	256QAM	1	49	12.19	12.25	11.99	13.3	0
20	256QAM	1	99	12.04	12.34	12.21		
20	256QAM	50	0	12.26	11.99	11.98		
20	256QAM	50	24	12.06	11.98	12.21	13.3	0
20	256QAM	50	50	12.30	11.88	12.26		
20	256QAM	100	0	12.17	12.27	12.14		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	12.23	12.26	12.08		
15	QPSK	1	37	11.89	11.95	12.13	13.3	0
15	QPSK	1	74	11.79	11.83	12.17		
15	QPSK	36	0	12.23	12.19	12.29		
15	QPSK	36	20	12.26	12.19	12.33	13.3	0
15	QPSK	36	39	11.99	12.09	12.13		
15	QPSK	75	0	11.91	11.95	11.97		
15	16QAM	1	0	12.28	12.19	12.05		
15	16QAM	1	37	12.16	12.04	12.24	13.3	0
15	16QAM	1	74	12.32	12.27	12.11		
15	16QAM	36	0	12.01	12.35	12.18		
15	16QAM	36	20	12.11	12.17	12.04	13.3	0
15	16QAM	36	39	12.21	12.07	12.08		
15	16QAM	75	0	12.13	12.14	12.11		
15	64QAM	1	0	12.04	12.10	12.19		
15	64QAM	1	37	11.98	12.16	12.13	13.3	0
15	64QAM	1	74	11.96	12.00	12.17		
15	64QAM	36	0	12.28	12.30	12.15		
15	64QAM	36	20	12.37	11.95	12.32	13.3	0
15	64QAM	36	39	12.19	12.30	11.95		
15	64QAM	75	0	12.36	12.24	12.24		
15	256QAM	1	0	12.14	12.12	11.99		
15	256QAM	1	37	12.08	12.30	11.98	13.3	0
15	256QAM	1	74	12.26	12.30	11.96		
15	256QAM	36	0	12.23	12.12	12.04		
15	256QAM	36	20	12.21	12.26	12.24	13.3	0
15	256QAM	36	39	12.08	12.03	12.01		
15	256QAM	75	0	12.27	12.05	12.26		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	12.33	12.33	12.33		
10	QPSK	1	25	11.89	11.91	12.24	13.3	0
10	QPSK	1	49	11.85	11.94	12.06		
10	QPSK	25	0	11.96	12.22	12.34		
10	QPSK	25	12	12.15	12.00	12.28	13.3	0
10	QPSK	25	25	12.17	12.10	12.36		
10	QPSK	50	0	12.11	12.10	12.06		
10	16QAM	1	0	12.10	12.21	12.06		
10	16QAM	1	25	12.17	12.17	12.31	13.3	0
10	16QAM	1	49	12.21	12.29	12.23		
10	16QAM	25	0	12.00	12.24	11.94		
10	16QAM	25	12	12.06	12.03	12.07	13.3	0
10	16QAM	25	25	12.12	12.13	12.28		
10	16QAM	50	0	12.08	12.26	12.02		
10	64QAM	1	0	11.87	12.13	12.07		
10	64QAM	1	25	12.10	12.11	11.95	13.3	0
10	64QAM	1	49	11.80	12.01	12.01		
10	64QAM	25	0	12.36	12.20	11.97		
10	64QAM	25	12	12.36	12.09	12.15	13.3	0
10	64QAM	25	25	12.15	12.32	11.92		
10	64QAM	50	0	12.11	12.32	12.31		
10	256QAM	1	0	12.24	12.13	12.05		
10	256QAM	1	25	11.95	12.27	12.10	13.3	0
10	256QAM	1	49	12.13	12.05	12.25		
10	256QAM	25	0	12.07	12.15	12.12		
10	256QAM	25	12	11.99	12.20	12.19	13.3	0
10	256QAM	25	25	11.99	12.01	12.10		
10	256QAM	50	0	12.39	12.16	12.15		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	12.15	12.13	12.13		
5	QPSK	1	12	11.76	11.91	12.18	13.3	0
5	QPSK	1	24	11.70	11.84	12.18		
5	QPSK	12	0	12.18	12.28	12.11		
5	QPSK	12	7	12.05	12.24	12.29	13.3	0
5	QPSK	12	13	12.06	12.02	12.22		
5	QPSK	25	0	12.09	12.12	12.17		
5	16QAM	1	0	12.07	12.28	12.27		
5	16QAM	1	12	12.11	12.01	12.33	13.3	0
5	16QAM	1	24	12.07	12.04	12.02		
5	16QAM	12	0	11.96	12.32	11.95		
5	16QAM	12	7	12.09	12.25	12.20	13.3	0
5	16QAM	12	13	12.12	12.23	12.23		
5	16QAM	25	0	12.07	12.16	12.04		
5	64QAM	1	0	11.96	12.05	12.04		
5	64QAM	1	12	12.20	12.08	11.97	13.3	0
5	64QAM	1	24	12.00	11.90	12.07		
5	64QAM	12	0	12.25	12.29	12.15		
5	64QAM	12	7	12.15	12.00	12.09	13.3	0
5	64QAM	12	13	12.07	12.11	12.06		
5	64QAM	25	0	12.24	12.20	12.15		
5	256QAM	1	0	12.33	12.14	12.20		
5	256QAM	1	12	12.16	12.17	12.04	13.3	0
5	256QAM	1	24	12.29	12.04	12.25		
5	256QAM	12	0	12.16	12.29	12.09		
5	256QAM	12	7	12.17	12.25	12.28	13.3	0
5	256QAM	12	13	12.13	11.94	12.14		
5	256QAM	25	0	12.19	11.93	12.22		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	12.12	12.15	12.07		
3	QPSK	1	8	11.92	12.03	12.22	13.3	0
3	QPSK	1	14	11.87	11.90	11.99		
3	QPSK	8	0	12.14	12.17	12.30		
3	QPSK	8	4	11.99	11.97	12.34	13.3	0
3	QPSK	8	7	11.91	12.28	12.18		
3	QPSK	15	0	12.09	12.15	12.17		
3	16QAM	1	0	12.06	12.23	12.12		
3	16QAM	1	8	12.26	12.12	12.19	13.3	0
3	16QAM	1	14	12.30	12.02	12.14		
3	16QAM	8	0	12.11	12.24	11.88		
3	16QAM	8	4	12.11	12.18	12.13	13.3	0
3	16QAM	8	7	12.28	12.26	12.17		
3	16QAM	15	0	12.25	12.15	12.01		
3	64QAM	1	0	12.01	12.09	12.18		
3	64QAM	1	8	12.00	12.01	12.18	13.3	0
3	64QAM	1	14	12.02	11.88	11.98		
3	64QAM	8	0	12.21	12.14	11.97		
3	64QAM	8	4	12.35	12.01	12.18	13.3	0
3	64QAM	8	7	12.06	12.11	11.88		
3	64QAM	15	0	12.11	12.09	12.18		
3	256QAM	1	0	12.11	12.07	12.26		
3	256QAM	1	8	12.06	12.37	11.89	13.3	0
3	256QAM	1	14	12.25	12.04	12.14		
3	256QAM	8	0	12.18	12.37	12.21		
3	256QAM	8	4	12.04	11.98	12.13	13.3	0
3	256QAM	8	7	11.97	12.07	12.21		
3	256QAM	15	0	12.34	12.11	12.31		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	12.24	12.26	12.10		
1.4	QPSK	1	3	11.90	11.78	12.07		
1.4	QPSK	1	5	11.91	11.90	12.12	13.3	0
1.4	QPSK	3	0	12.08	12.17	12.17		
1.4	QPSK	3	1	12.09	12.19	12.16		
1.4	QPSK	3	3	12.08	12.08	12.14		
1.4	QPSK	6	0	12.01	12.07	12.08	13.3	0
1.4	16QAM	1	0	12.30	12.26	12.05		
1.4	16QAM	1	3	12.06	11.99	12.20		
1.4	16QAM	1	5	12.26	12.28	12.04	13.3	0
1.4	16QAM	3	0	12.10	12.19	12.18		
1.4	16QAM	3	1	12.05	12.06	12.25		
1.4	16QAM	3	3	12.05	12.34	12.18		
1.4	16QAM	6	0	12.21	12.25	11.98	13.3	0
1.4	64QAM	1	0	12.10	12.07	12.15		
1.4	64QAM	1	3	12.10	12.11	12.05		
1.4	64QAM	1	5	11.96	12.00	11.94	13.3	0
1.4	64QAM	3	0	12.17	12.25	11.97		
1.4	64QAM	3	1	12.26	12.01	12.07		
1.4	64QAM	3	3	12.25	12.15	12.05		
1.4	64QAM	6	0	12.30	12.29	12.27	13.3	0
1.4	256QAM	1	0	12.27	12.01	12.16		
1.4	256QAM	1	3	11.97	12.35	11.97		
1.4	256QAM	1	5	12.30	12.32	12.02	13.3	0
1.4	256QAM	3	0	12.27	12.22	12.28		
1.4	256QAM	3	1	12.15	12.20	12.28		
1.4	256QAM	3	3	12.16	12.02	12.22		
1.4	256QAM	6	0	12.34	11.97	12.09	13.3	0

Band 5 (Celluar Band)
Part 22H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	16.77	16.71	16.62		
10	QPSK	1	25	16.58	16.62	16.58	17.9	0
10	QPSK	1	49	16.61	16.60	16.52		
10	QPSK	25	0	16.70	16.65	16.70		
10	QPSK	25	12	16.74	16.70	16.72	17.9	0
10	QPSK	25	25	16.70	16.63	16.60		
10	QPSK	50	0	16.74	16.69	16.68		
10	16QAM	1	0	16.70	16.60	16.60		
10	16QAM	1	25	16.68	16.75

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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	11.30	11.28	11.53		
20	QPSK	1	49	11.25	11.35	11.38	12.6	0
20	QPSK	1	99	11.32	11.49	11.84		
20	QPSK	50	0	11.14	11.44	11.55		
20	QPSK	50	24	11.35	11.47	11.59	12.6	0
20	QPSK	50	50	11.32	11.54	11.54		
20	QPSK	100	0	11.18	11.51	11.57		
20	16QAM	1	0	11.24	11.29	11.47		
20	16QAM	1	49	11.29	11.48	11.35	12.6	0
20	16QAM	1	99	11.15	11.53	11.32		
20	16QAM	50	0	11.13	11.48	11.49		
20	16QAM	50	24	11.26	11.55	11.57	12.6	0
20	16QAM	50	50	11.39	11.41	11.46		
20	16QAM	100	0	11.28	11.34	11.48		
20	64QAM	1	0	11.46	11.46	11.40		
20	64QAM	1	49	11.47	11.48	11.31	12.6	0
20	64QAM	1	99	11.50	11.32	11.35		
20	64QAM	50	0	11.20	11.48	11.52		
20	64QAM	50	24	11.34	11.51	11.45	12.6	0
20	64QAM	50	50	11.31	11.53	11.47		
20	64QAM	100	0	11.34	11.48	11.57		
20	256QAM	1	0	11.30	11.21	11.37		
20	256QAM	1	49	11.44	11.34	11.16	12.6	0
20	256QAM	1	99	11.33	11.32	11.15		
20	256QAM	50	0	11.02	11.43	11.51		
20	256QAM	50	24	11.22	11.44	11.20	12.6	0
20	256QAM	50	50	11.19	11.40	11.23		
20	256QAM	100	0	11.33	11.42	11.59		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	11.15	11.19	11.47		
15	QPSK	1	37	11.29	11.23	11.32	12.6	0
15	QPSK	1	74	11.23	11.45	11.60		
15	QPSK	36	0	11.12	11.23	11.49		
15	QPSK	36	20	11.26	11.31	11.56	12.6	0
15	QPSK	36	39	11.27	11.49	11.48		
15	QPSK	75	0	11.16	11.47	11.36		
15	16QAM	1	0	11.19	11.26	11.51		
15	16QAM	1	37	11.21	11.50	11.11	12.6	0
15	16QAM	1	74	11.11	11.48	11.19		
15	16QAM	36	0	11.18	11.50	11.52		
15	16QAM	36	20	11.24	11.45	11.51	12.6	0
15	16QAM	36	39	11.19	11.32	11.25		
15	16QAM	75	0	11.27	11.31	11.30		
15	64QAM	1	0	11.37	11.36	11.37		
15	64QAM	1	37	11.38	11.36	11.09	12.6	0
15	64QAM	1	74	11.33	11.32	11.14		
15	64QAM	36	0	11.15	11.38	11.43		
15	64QAM	36	20	11.30	11.27	11.28	12.6	0
15	64QAM	36	39	11.31	11.53	11.44		
15	64QAM	75	0	11.24	11.44	11.32		
15	256QAM	1	0	11.29	11.38	11.32		
15	256QAM	1	37	11.40	11.53	11.14	12.6	0
15	256QAM	1	74	11.26	11.23	11.27		
15	256QAM	36	0	11.18	11.49	11.44		
15	256QAM	36	20	11.28	11.52	11.34	12.6	0
15	256QAM	36	39	11.17	11.57	11.24		
15	256QAM	75	0	11.12	11.38	11.33		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	11.20	11.30	11.33		
10	QPSK	1	25	11.30	11.30	11.15	12.6	0
10	QPSK	1	49	11.20	11.47	11.53		
10	QPSK	25	0	11.14	11.27	11.39		
10	QPSK	25	12	11.16	11.35	11.39	12.6	0
10	QPSK	25	25	11.31	11.33	11.52		
10	QPSK	50	0	11.18	11.31	11.58		
10	16QAM	1	0	11.17	11.08	11.52		
10	16QAM	1	25	11.32	11.39	11.26	12.6	0
10	16QAM	1	49	11.10	11.57	11.19		
10	16QAM	25	0	11.17	11.30	11.27		
10	16QAM	25	12	11.10	11.42	11.34	12.6	0
10	16QAM	25	25	11.37	11.40	11.39		
10	16QAM	50	0	11.17	11.12	11.47		
10	64QAM	1	0	11.23	11.37	11.30		
10	64QAM	1	25	11.36	11.30	11.15	12.6	0
10	64QAM	1	49	11.39	11.11	11.35		
10	64QAM	25	0	11.21	11.29	11.41		
10	64QAM	25	12	11.10	11.48	11.36	12.6	0
10	64QAM	25	25	11.25	11.30	11.45		
10	64QAM	50	0	11.10	11.25	11.35		
10	256QAM	1	0	11.38	11.42	11.29		
10	256QAM	1	25	11.28	11.45	11.28	12.6	0
10	256QAM	1	49	11.26	11.27	11.35		
10	256QAM	25	0	11.15	11.49	11.56		
10	256QAM	25	12	11.29	11.43	11.48	12.6	0
10	256QAM	25	25	11.14	11.30	11.50		
10	256QAM	50	0	11.39	11.35	11.34		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	11.08	11.21	11.44		
5	QPSK	1	12	11.29	11.27	11.21	12.6	0
5	QPSK	1	24	11.14	11.38	11.56		
5	QPSK	12	0	11.18	11.27	11.36		
5	QPSK	12	7	11.32	11.40	11.55	12.6	0
5	QPSK	12	13	11.37	11.45	11.32		
5	QPSK	25	0	11.17	11.37	11.58		
5	16QAM	1	0	11.13	11.32	11.25		
5	16QAM	1	12	11.08	11.33	11.14	12.6	0
5	16QAM	1	24	11.05	11.48	11.08		
5	16QAM	12	0	11.12	11.44	11.41		
5	16QAM	12	7	11.03	11.34	11.34	12.6	0
5	16QAM	12	13	11.20	11.42	11.24		
5	16QAM	25	0	11.03	11.21	11.48		
5	64QAM	1	0	11.35	11.22	11.38		
5	64QAM	1	12	11.28	11.51	11.24	12.6	0
5	64QAM	1	24	11.31	11.34	11.18		
5	64QAM	12	0	11.14	11.28	11.50		
5	64QAM	12	7	11.31	11.46	11.43	12.6	0
5	64QAM	12	13	11.32	11.46	11.36		
5	64QAM	25	0	11.22	11.31	11.41		
5	256QAM	1	0	11.51	11.31	11.42		
5	256QAM	1	12	11.30	11.37	11.10	12.6	0
5	256QAM	1	24	11.41	11.15	11.32		
5	256QAM	12	0	11.08	11.46	11.46		
5	256QAM	12	7	11.34	11.49	11.49	12.6	0
5	256QAM	12	13	11.28	11.54	11.46		
5	256QAM	25	0	11.18	11.33	11.54		

Band 12 (700MHz Low Band)
Part 27F(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	16.55	16.63	16.63		
10	QPSK	1	25	16.60	16.70	16.65	17.6	0
10	QPSK	1	49	16.67	16.79	16.69		
10	QPSK	25	0	16.67	16.66	16.66		
10	QPSK	25	12	16.69	16.70	16.70	17.6	0
10	QPSK	25	25	16.70	16.73	16.72		
10	QPSK	50	0	16.70	16.72	16.68		
10	16QAM	1	0	16.64	16.66	16.66		
10	16QAM	1	25	16.65	16.60	16.61	17.6	0
10	16QAM	1	49	16.67	16.66	16.61		
10	16QAM	25	0	16.64	16.63	16.66		
10	16QAM	25	12	16.61	16.62	16.65	17.6	0
10	16QAM	25	25	16.61	16.66	16.69		
10	16QAM	50	0	16.70	16.62	16.65		
10	64QAM	1	0	16.70	16.64	16.67		
10	64QAM	1	25	16.66	16.60	16.67	17.6	0
10	64QAM	1	49	16.61	16.64	16.69		
10	64QAM	25	0	16.65	16.68	16.67		
10	64QAM	25	12	16.70	16.66	16.65	17.6	0
10	64QAM	25	25	16.61	16.63	16.61		
10	64QAM	50	0	16.70	16.68	16.67		
10	256QAM	1	0	16.67	16.48	16.60		
10	256QAM	1	25	16.53	16.57	16.61	17.6	0
10	256QAM	1	49	16.67	16.67	16.47		
10	256QAM	25	0	16.49	16.55	16.66		
10	256QAM	25	12	16.63	16.54	16.44	17.6	0
10	256QAM	25	25	16.45	16.66	16.54		
10	256QAM	50	0	16.52	16.55	16.62		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	16.45	16.55	16.64		
5	QPSK	1	12	16.56	16.71	16.68	17.6	0
5	QPSK	1	24	16.43	16.58	16.66		
5	QPSK	12	0	16.66	16.62	16.67		
5	QPSK	12	7	16.51	16.59	16.45	17.6	0
5	QPSK	12	13	16.69	16.73	16.72		
5	QPSK	25	0	16.62	16.51	16.61		
5	16QAM	1	0	16.62	16.59	16.46		
5	16QAM	1	12	16.68	16.50	16.54	17.6	0
5	16QAM	1	24	16.67	16.44	16.60		
5	16QAM	12	0	16.66	16.41	16.42		
5	16QAM	12	7	16.56	16.64	16.61	17.6	0
5	16QAM	12	13	16.54	16.55	16.59		
5	16QAM	25	0	16.65	16.45	16.42		
5	64QAM	1	0	16.75	16.67	16.72		
5	64QAM	1	12	16.43	16.48	16.48	17.6	0
5	64QAM	1	24	16.48	16.61	16.63		
5	64QAM	12	0	16.49	16.46	16.45		
5	64QAM	12	7	16.49	16.58	16.54	17.6	0
5	64QAM	12	13	16.63	16.58	16.44		
5	64QAM	25	0	16.72	16.45	16.53		
5	256QAM	1	0	16.55	16.40	16.58		
5	256QAM	1	12	16.66	16.61	16.44	17.6	0
5	256QAM	1	24	16.43	16.46	16.60		
5	256QAM	12	0	16.70	16.55	16.72		
5	256QAM	12	7	16.72	16.50	16.50	17.6	0
5	256QAM	12	13	16.38	16.43	16.39		
5	256QAM	25	0	16.66	16.71	16.57		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	16.30	16.47	16.65		
3	QPSK	1	8	16.57	16.52	16.58	17.6	0
3	QPSK	1	14	16.56	16.69	16.65		
3	QPSK	8	0	16.69	16.48	16.67		
3	QPSK	8	4	16.44	16.56	16.53	17.6	0
3	QPSK	8	7	16.62	16.64	16.59		
3	QPSK	15	0	16.60	16.61	16.63		
3	16QAM	1	0	16.40	16.68	16.51		
3	16QAM	1	8	16.66	16.47	16.60	17.6	0
3	16QAM	1	14	16.70	16.51	16.59		
3	16QAM	8	0	16.64	16.56	16.68		
3	16QAM	8	4	16.55	16.57	16.47	17.6	0
3	16QAM	8	7	16.47	16.69	16.61		
3	16QAM	15	0	16.74	16.58	16.65		
3	64QAM	1	0	16.71	16.65	16.67		
3	64QAM	1	8	16.61	16.46	16.63	17.6	0
3	64QAM	1	14	16.42	16.65	16.74		
3	64QAM	8	0	16.51	16.58	16.72		
3	64QAM	8	4	16.74	16.69	16.62	17.6	0
3	64QAM	8	7	16.50	16.46	16.40		
3	64QAM	15	0	16.48	16.64	16.51		
3	256QAM	1	0	16.53	16.49	16.45		
3	256QAM	1	8	16.60	16.59	16.46	17.6	0
3	256QAM	1	14	16.61	16.57	16.69		
3	256QAM	8	0	16.56	16.63	16.49		
3	256QAM	8	4	16.51	16.66	16.62	17.6	0
3	256QAM	8	7	16.46	16.59	16.52		
3	256QAM	15	0	16.48	16.70	16.71		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	16.48	16.42	16.46		
1.4	QPSK	1	3	16.35	16.53	16.60		
1.4	QPSK	1	5	16.49	16.64	16.50	17.6	0
1.4	QPSK	3	0	16.61	16.68	16.41		
1.4	QPSK	3	1	16.59	16.58	16.55		
1.4	QPSK	3	3	16.73	16.55	16.50		
1.4	QPSK	6	0	16.72	16.54	16.51	17.6	0
1.4	16QAM	1	0	16.49	16.51	16.69		
1.4	16QAM	1	3	16.59	16.38	16.57		
1.4	16QAM	1	5	16.59	16.66	16.49	17.6	0
1.4	16QAM	3	0	16.64	16.55	16.52		
1.4	16QAM	3	1	16.37	16.47	16.46		
1.4	16QAM	3	3	16.60	16.65	16.54		
1.4	16QAM	6	0	16.49	16.64	16.51	17.6	0
1.4	64QAM	1	0	16.46	16.59	16.50		
1.4	64QAM	1	3	16.45	16.60	16.55		
1.4	64QAM	1	5	16.41	16.48	16.53	17.6	0
1.4	64QAM	3	0	16.49	16.71	16.49		
1.4	64QAM	3	1	16.68	16.52	16.60		
1.4	64QAM	3	3	16.53	16.46	16.42		
1.4	64QAM	6	0	16.59	16.46	16.71	17.6	0
1.4	256QAM	1	0	16.59	16.49	16.54		
1.4	256QAM	1	3	16.49	16.59	16.63		
1.4	256QAM	1	5	16.49	16.68	16.48	17.6	0
1.4	256QAM	3	0	16.62	16.43	16.45		
1.4	256QAM	3	1	16.68	16.55	16.61		
1.4	256QAM	3	3	16.63	16.62	16.60		
1.4	256QAM	6	0	16.68	16.66	16.68	17.6	0

Band 13(700MHz Band)
Part 27F

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					23230			
Frequency (MHz)					782			
10	QPSK	1	0		17.49			
10	QPSK	1	25		17.61		18.3	0
10	QPSK	1	49		17.35			
10	QPSK	25	0		17.43			
10	QPSK	25	12		17.48		18.3	0
10	QPSK	25	25		17.54			
10	QPSK	50	0		17.49			
10	16QAM	1	0		17.43			
10	16QAM	1	25		17.43		18.3	0
10	16QAM	1	49		17.44			
10	16QAM	25	0		17.48			
10	16QAM	25	12		17.53		18.3	0
10	16QAM	25	25		17.37			
10	16QAM	50	0		17.48			
10	64QAM	1	0		17.41			
10	64QAM	1	25		17.39		18.3	0
10	64QAM	1	49		17.36			
10	64QAM	25	0		17.43			
10	64QAM	25	12		17.49		18.3	0
10	64QAM	25	25		17.36			
10	64QAM	50	0		17.47			
10	256QAM	1	0		17.26			
10	256QAM	1	25		17.26		18.3	0
10	256QAM	1	49		17.15			
10	256QAM	25	0		17.18			
10	256QAM	25	12		17.33		18.3	0
10	256QAM	25	25		17.28			
10	256QAM	50	0		17.28			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	17.28	17.24	17.47		
5	QPSK	1	12	17.41	17.45	17.38	18.3	0
5	QPSK	1	24	17.25	17.29	17.19		
5	QPSK	12	0	17.23	17.41	17.31		
5	QPSK	12	7	17.23	17.26	17.44	18.3	0
5	QPSK	12	13	17.48	17.41	17.42		
5	QPSK	25	0	17.27	17.32	17.42		
5	16QAM	1	0	17.41	17.20	17.24		
5	16QAM	1	12	17.31	17.40	17.42	18.3	0
5	16QAM	1	24	17.26	17.44	17.38		
5	16QAM	12	0	17.29	17.24	17.39		
5	16QAM	12	7	17.46	17.45	17.44	18.3	0
5	16QAM	12	13	17.40	17.25	17.40		
5	16QAM	25	0	17.38	17.42	17.42		
5	64QAM	1	0	17.40	17.36	17.29		
5	64QAM	1	12	17.20	17.39	17.21	18.3	0
5	64QAM	1	24	17.12	17.38	17.37		
5	64QAM	12	0	17.40	17.42	17.23		
5	64QAM	12	7	17.40	17.42	17.39	18.3	0
5	64QAM	12	13	17.14	17.16	17.27		
5	64QAM	25	0	17.30	17.31	17.23		
5	256QAM	1	0	17.45	17.42	17.20		
5	256QAM	1	12	17.38	17.40	17.16	18.3	0
5	256QAM	1	24	17.38	17.37	17.15		
5	256QAM	12	0	17.31	17.21	17.43		
5	256QAM	12	7	17.43	17.44	17.31	18.3	0
5	256QAM	12	13	17.28	17.30	17.32		
5	256QAM	25	0	17.22	17.31	17.47		

Band 17 (700MHz Band)
Part 27H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	16.37	16.34	16.39		
10	QPSK	1	25	16.44	16.42	16.44	17.6	0
10	QPSK	1	49	16.62	16.40	16.49		
10	QPSK	25	0	16.46	16.47	16.46		
10	QPSK	25	12	16.61	16.60	16.53	17.6	0
10	QPSK	25	25	16.60	16.53	16.51		
10	QPSK	50	0	16.51	16.49	16.49		
10	16QAM	1	0	16.43	16.41	16.42		
10	16QAM	1	25	16.41	16.48	16.44	17.6	0
10	16QAM	1	49	16.49	16.49	16.47		
10	16QAM	25	0	16.44	16.44	16.46		
10	16QAM	25	12	16.49	16.49	16.49	17.6	0
10	16QAM	25	25	16.55	16.58	16.58		
10	16QAM	50	0	16.49	16.46	16.46		
10	64QAM	1	0	16.50	16.41	16.57		
10	64QAM	1	25	16.48	16.48	16.49	17.6	0
10	64QAM	1	49	16.48	16.50	16.50		
10	64QAM	25	0	16.49	16.47	16.47		
10	64QAM	25	12	16.54	16.55	16.50	17.6	0
10	64QAM	25	25	16.42	16.42	16.59		
10	64QAM	50	0	16.48	16.50	16.50		
10	256QAM	1	0	16.49	16.27	16.47		
10	256QAM	1	25	16.52	16.51	16.41	17.6	0
10	256QAM	1	49	16.45	16.29	16.36		
10	256QAM	25	0	16.27	16.29	16.45		
10	256QAM	25	12	16.41	16.50	16.30	17.6	0
10	256QAM	25	25	16.26	16.39	16.39		
10	256QAM	50	0	16.43	16.47	16.25		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	16.31	16.23	16.25		
5	QPSK	1	12	16.44	16.36	16.49	17.6	0
5	QPSK	1	24	16.54	16.24	16.49		
5	QPSK	12	0	16.44	16.22	16.50		
5	QPSK	12	7	16.60	16.60	16.51	17.6	0
5	QPSK	12	13	16.35	16.33	16.28		
5	QPSK	25	0	16.38	16.54	16.42		
5	16QAM	1	0	16.19	16.21	16.36		
5	16QAM	1	12	16.36	16.37	16.47	17.6	0
5	16QAM	1	24	16.45	16.41	16.24		
5	16QAM	12	0	16.21	16.29	16.49		
5	16QAM	12	7	16.51	16.29	16.31	17.6	0
5	16QAM	12	13	16.43	16.34	16.55		
5	16QAM	25	0	16.35	16.44	16.49		
5	64QAM	1	0	16.40	16.40	16.55		
5	64QAM	1	12	16.42	16.31	16.45	17.6	0
5	64QAM	1	24	16.53	16.46	16.31		
5	64QAM	12	0	16.47	16.25	16.39		
5	64QAM	12	7	16.31	16.52	16.44	17.6	0
5	64QAM	12	13	16.35	16.32	16.52		
5	64QAM	25	0	16.26	16.40	16.46		
5	256QAM	1	0	16.44	16.43	16.55		
5	256QAM	1	12	16.38	16.35	16.47	17.6	0
5	256QAM	1	24	16.42	16.31	16.43		
5	256QAM	12	0	16.31	16.48	16.42		
5	256QAM	12	7	16.31	16.43	16.34	17.6	0
5	256QAM	12	13	16.44	16.23	16.51		
5	256QAM	25	0	16.28	16.44	16.31		

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	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	12.79	12.83	12.73		
20	QPSK	1	49	12.70	12.78	12.66	13.6	0
20	QPSK	1	99	12.67	12.69	12.70		
20	QPSK	50	0	12.66	12.71	12.63		
20	QPSK	50	24	12.66	12.77	12.53	13.6	0
20	QPSK	50	50	12.71	12.74	12.58		
20	QPSK	100	0	12.70	12.76	12.67		
20	16QAM	1	0	12.75	12.70	12.71		
20	16QAM	1	49	12.71	12.67	12.53	13.6	0
20	16QAM	1	99	12.66	12.66	12.42		
20	16QAM	50	0	12.70	12.67	12.55		
20	16QAM	50	24	12.68	12.69	12.45	13.6	0
20	16QAM	50	50	12.64	12.65	12.51		
20	16QAM	100	0	12.66	12.70	12.52		
20	64QAM	1	0	12.66	12.75	12.55		
20	64QAM	1	49	12.76	12.76	12.61	13.6	0
20	64QAM	1	99	12.66	12.71	12.42		
20	64QAM	50	0	12.76	12.71	12.62		
20	64QAM	50	24	12.72	12.70	12.60	13.6	0
20	64QAM	50	50	12.66	12.66	12.63		
20	64QAM	100	0	12.66	12.73	12.53		
20	256QAM	1	0	12.54	12.58	12.59		
20	256QAM	1	49	12.58	12.70	12.58	13.6	0
20	256QAM	1	99	12.59	12.63	12.33		
20	256QAM	50	0	12.57	12.67	12.54		
20	256QAM	50	24	12.70	12.48	12.38	13.6	0
20	256QAM	50	50	12.55	12.46	12.57		
20	256QAM	100	0	12.59	12.49	12.36		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	12.62	12.72	12.52		
15	QPSK	1	37	12.60	12.65	12.55	13.6	0
15	QPSK	1	74	12.58	12.66	12.56		
15	QPSK	36	0	12.58	12.53	12.57		
15	QPSK	36	20	12.69	12.71	12.47	13.6	0
15	QPSK	36	39	12.68	12.65	12.43		
15	QPSK	75	0	12.67	12.78	12.61		
15	16QAM	1	0	12.66	12.68	12.59		
15	16QAM	1	37	12.65	12.61	12.37	13.6	0
15	16QAM	1	74	12.45	12.51	12.27		
15	16QAM	36	0	12.69	12.55	12.39		
15	16QAM	36	20	12.59	12.44	12.29	13.6	0
15	16QAM	36	39	12.49	12.50	12.30		
15	16QAM	75	0	12.46	12.48	12.44		
15	64QAM	1	0	12.70	12.59	12.33		
15	64QAM	1	37	12.54	12.72	12.66	13.6	0
15	64QAM	1	74	12.70	12.68	12.29		
15	64QAM	36	0	12.61	12.58	12.45		
15	64QAM	36	20	12.62	12.61	12.62	13.6	0
15	64QAM	36	39	12.44	12.53	12.38		
15	64QAM	75	0	12.58	12.76	12.54		
15	256QAM	1	0	12.43	12.55	12.58		
15	256QAM	1	37	12.68	12.55	12.43	13.6	0
15	256QAM	1	74	12.42	12.66	12.31		
15	256QAM	36	0	12.63	12.59	12.51		
15	256QAM	36	20	12.67	12.75	12.44	13.6	0
15	256QAM	36	39	12.50	12.58	12.44		
15	256QAM	75	0	12.53	12.70	12.52		
Channel				26090	26340	26540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	12.65	12.67	12.73		
10	QPSK	1	25	12.58	12.61	12.65	13.6	0
10	QPSK	1	49	12.48	12.67	12.72		
10	QPSK	25	0	12.63	12.57	12.54		
10	QPSK	25	12	12.55	12.77	12.31	13.6	0
10	QPSK	25	25	12.70	12.49	12.38		
10	QPSK	50	0	12.51	12.81	12.68		
10	16QAM	1	0	12.69	12.75	12.67		
10	16QAM	1	25	12.74	12.59	12.28	13.6	0
10	16QAM	1	49	12.42	12.52	12.29		
10	16QAM	25	0	12.63	12.69	12.32		
10	16QAM	25	12	12.71	12.51	12.42	13.6	0
10	16QAM	25	25	12.69	12.49	12.30		
10	16QAM	50	0	12.49	12.74	12.39		
10	64QAM	1	0	12.47	12.75	12.37		
10	64QAM	1	25	12.78	12.58	12.38	13.6	0
10	64QAM	1	49	12.68	12.53	12.29		
10	64QAM	25	0	12.58	12.67	12.48		
10	64QAM	25	12	12.61	12.58	12.54	13.6	0
10	64QAM	25	25	12.41	12.63	12.45		
10	64QAM	50	0	12.53	12.71	12.55		
10	256QAM	1	0	12.71	12.54	12.55		
10	256QAM	1	25	12.57	12.64	12.38	13.6	0
10	256QAM	1	49	12.56	12.73	12.45		
10	256QAM	25	0	12.75	12.46	12.58		
10	256QAM	25	12	12.54	12.66	12.39	13.6	0
10	256QAM	25	25	12.68	12.64	12.67		
10	256QAM	50	0	12.69	12.57	12.41		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	12.77	12.76	12.65		
5	QPSK	1	12	12.58	12.82	12.46	13.6	0
5	QPSK	1	24	12.60	12.51	12.52		
5	QPSK	12	0	12.51	12.67	12.60		
5	QPSK	12	7	12.51	12.55	12.45	13.6	0
5	QPSK	12	13	12.73	12.53	12.48		
5	QPSK	25	0	12.48	12.63	12.49		
5	16QAM	1	0	12.75	12.73	12.62		
5	16QAM	1	12	12.50	12.72	12.32	13.6	0
5	16QAM	1	24	12.67	12.63	12.30		
5	16QAM	12	0	12.59	12.63	12.51		
5	16QAM	12	7	12.68	12.46	12.43	13.6	0
5	16QAM	12	13	12.67	12.55	12.48		
5	16QAM	25	0	12.66	12.69	12.44		
5	64QAM	1	0	12.59	12.60	12.45		
5	64QAM	1	12	12.74	12.75	12.45	13.6	0
5	64QAM	1	24	12.46	12.59	12.43		
5	64QAM	12	0	12.53	12.60	12.40		
5	64QAM	12	7	12.75	12.62	12.42	13.6	0
5	64QAM	12	13	12.59	12.70	12.40		
5	64QAM	25	0	12.50	12.58	12.38		
5	256QAM	1	0	12.46	12.55	12.57		
5	256QAM	1	12	12.64	12.79	12.55	13.6	0
5	256QAM	1	24	12.65	12.50	12.38		
5	256QAM	12	0	12.69	12.60	12.53		
5	256QAM	12	7	12.67	12.68	12.58	13.6	0
5	256QAM	12	13	12.64	12.53	12.59		
5	256QAM	25	0	12.71	12.51	12.56		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	12.56	12.64	12.65		
3	QPSK	1	8	12.52	12.76	12.66	13.6	0
3	QPSK	1	14	12.62	12.60	12.56		
3	QPSK	8	0	12.43	12.63	12.68		
3	QPSK	8	4	12.70	12.61	12.36	13.6	0
3	QPSK	8	7	12.76	12.74	12.60		
3	QPSK	15	0	12.70	12.71	12.49		
3	16QAM	1	0	12.50	12.50	12.70	13.6	0
3	16QAM	1	8	12.49	12.64	12.49		
3	16QAM	1	14	12.68	12.60	12.33		
3	16QAM	8	0	12.46	12.53	12.56		
3	16QAM	8	4	12.56	12.55	12.46	13.6	0
3	16QAM	8	7	12.40	12.47	12.51		
3	16QAM	15	0	12.69	12.56	12.37		
3	64QAM	1	0	12.50	12.65	12.57		
3	64QAM	1	8	12.73	12.77	12.66	13.6	0
3	64QAM	1	14	12.70	12.74	12.33		
3	64QAM	8	0	12.56	12.49	12.38		
3	64QAM	8	4	12.72	12.70	12.48	13.6	0
3	64QAM	8	7	12.57	12.63	12.52		
3	64QAM	15	0	12.63	12.68	12.29		
3	256QAM	1	0	12.67	12.55	12.57		
3	256QAM	1	8	12.66	12.74	12.57	13.6	0
3	256QAM	1	14	12.56	12.55	12.26		
3	256QAM	8	0	12.57	12.67	12.56		
3	256QAM	8	4	12.55	12.55	12.60	13.6	0
3	256QAM	8	7	12.64	12.64	12.53		
3	256QAM	15	0	12.45	12.71	12.49		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	12.73	12.72	12.53		
1.4	QPSK	1	3	12.69	12.64	12.41		
1.4	QPSK	1	5	12.64	12.60	12.70	13.6	0
1.4	QPSK	3	0	12.70	12.47	12.40		
1.4	QPSK	3	1	12.48	12.73	12.28		
1.4	QPSK	3	3	12.67	12.60	12.55		
1.4	QPSK	6	0	12.55	12.53	12.65	13.6	0
1.4	16QAM	1	0	12.65	12.49	12.59		
1.4	16QAM	1	3	12.73	12.64	12.52		
1.4	16QAM	1	5	12.68	12.60	12.44	13.6	0
1.4	16QAM	3	0	12.66	12.43	12.36		
1.4	16QAM	3	1	12.49	12.52	12.24		
1.4	16QAM	3	3	12.64	12.52	12.33		
1.4	16QAM	6	0	12.51	12.64	12.56	13.6	0
1.4	64QAM	1	0	12.46	12.79	12.45		
1.4	64QAM	1	3	12.65	12.57	12.51		
1.4	64QAM	1	5	12.63	12.53	12.31	13.6	0
1.4	64QAM	3	0	12.79	12.50	12.62		
1.4	64QAM	3	1	12.53	12.54	12.65		
1.4	64QAM	3	3	12.67	12.63	12.61		
1.4	64QAM	6	0	12.66	12.77	12.40	13.6	0
1.4	256QAM	1	0	12.51	12.67	12.56		
1.4	256QAM	1	3	12.72	12.78	12.66		
1.4	256QAM	1	5	12.51	12.71	12.37	13.6	0
1.4	256QAM	3	0	12.57	12.52	12.41		
1.4	256QAM	3	1	12.51	12.65	12.51		
1.4	256QAM	3	3	12.50	12.46	12.59		
1.4	256QAM	6	0	12.68	12.49	12.29	13.6	0

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)				821.5	831.5	841.5		
15	QPSK	1	0	16.34	16.36	16.41		
15	QPSK	1	37	16.32	16.36	16.34	17.5	0
15	QPSK	1	74	16.36	16.35	16.30		
15	QPSK	36	0	16.28	16.26	16.31		
15	QPSK	36	20	16.36	16.25	16.38	17.5	0
15	QPSK	36	39	16.33	16.30	16.30		
15	QPSK	75	0	16.33	16.25	16.35		
15	16QAM	1	0	16.20	16.37	16.32		
15	16QAM	1	37	16.25	16.18	16.32	17.5	0
15	16QAM	1	74	16.29	16.21	16.35		
15	16QAM	36	0	16.27	16.28	16.31		
15	16QAM	36	20	16.35	16.22	16.34	17.5	0
15	16QAM	36	39	16.28	16.30	16.30		
15	16QAM	75	0	16.33	16.26	16.29		
15	64QAM	1	0	16.32	16.34	16.20		
15	64QAM	1	37	16.20	16.37	16.22	17.5	0
15	64QAM	1	74	16.21	16.22	16.29		
15	64QAM	36	0	16.33	16.34	16.20		
15	64QAM	36	20	16.37	16.28	16.22	17.5	0
15	64QAM	36	39	16.20	16.33	16.37		
15	64QAM	75	0	16.36	16.28	16.28		
15	256QAM	1	0	16.12	16.11	16.09		
15	256QAM	1	37	16.12	16.21	16.16	17.5	0
15	256QAM	1	74	16.00	16.25	16.05		
15	256QAM	36	0	16.19	16.12	16.13		
15	256QAM	36	20	16.38	16.27	16.22	17.5	0
15	256QAM	36	39	16.08	16.33	16.20		
15	256QAM	75	0	16.40	16.31	16.11		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	16.19	16.26	16.35		
10	QPSK	1	25	16.35	16.37	16.14	17.5	0
10	QPSK	1	49	16.30	16.29	16.28		
10	QPSK	25	0	16.14	16.05	16.14		
10	QPSK	25	12	16.29	16.13	16.23	17.5	0
10	QPSK	25	25	16.09	16.18	16.13		
10	QPSK	50	0	16.18	16.27	16.29		
10	16QAM	1	0	16.09	16.35	16.22		
10	16QAM	1	25	16.09	16.07	16.20	17.5	0
10	16QAM	1	49	16.33	15.98	16.12		
10	16QAM	25	0	16.13	16.04	16.36		
10	16QAM	25	12	16.19	16.11	16.18	17.5	0
10	16QAM	25	25	16.06	16.13	16.32		
10	16QAM	50	0	16.12	16.16	16.26		
10	64QAM	1	0	16.12	16.28	16.13		
10	64QAM	1	25	16.17	16.33	16.26	17.5	0
10	64QAM	1	49	15.96	16.01	16.09		
10	64QAM	25	0	16.14	16.25	16.13		
10	64QAM	25	12	16.30	16.12	16.00	17.5	0
10	64QAM	25	25	16.20	16.26	16.13		
10	64QAM	50	0	16.11	16.20	16.11		
10	256QAM	1	0	16.24	16.17	16.12		
10	256QAM	1	25	16.22	16.24	16.08	17.5	0
10	256QAM	1	49	16.21	15.98	16.13		
10	256QAM	25	0	16.27	16.14	16.07		
10	256QAM	25	12	16.26	16.31	16.01	17.5	0
10	256QAM	25	25	16.18	16.10	16.15		
10	256QAM	50	0	16.16	16.32	16.25		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	16.28	16.34	16.26		
5	QPSK	1	12	16.30	16.15	16.17	17.5	0
5	QPSK	1	24	16.33	16.32	16.33		
5	QPSK	12	0	16.04	16.08	16.14		
5	QPSK	12	7	16.11	16.25	16.19	17.5	0
5	QPSK	12	13	16.13	16.21	16.05		
5	QPSK	25	0	16.24	16.08	16.36		
5	16QAM	1	0	15.98	16.21	16.34		
5	16QAM	1	12	16.10	16.16	16.25	17.5	0
5	16QAM	1	24	16.26	16.08	16.37		
5	16QAM	12	0	16.12	16.20	16.11		
5	16QAM	12	7	16.15	16.19	16.17	17.5	0
5	16QAM	12	13	16.05	16.21	16.31		
5	16QAM	25	0	16.34	16.30	16.24		
5	64QAM	1	0	16.23	16.14	16.19		
5	64QAM	1	12	16.18	16.22	16.17	17.5	0
5	64QAM	1	24	16.17	16.08	16.20		
5	64QAM	12	0	16.22	16.24	16.24		
5	64QAM	12	7	16.40	16.13	16.26	17.5	0
5	64QAM	12	13	16.03	16.18	16.33		
5	64QAM	25	0	16.36	16.16	16.29		
5	256QAM	1	0	16.08	16.35	16.20		
5	256QAM	1	12	16.11	16.17	16.21	17.5	0
5	256QAM	1	24	16.06	16.26	16.20		
5	256QAM	12	0	16.30	16.10	16.13		
5	256QAM	12	7	16.28	16.25	16.25	17.5	0
5	256QAM	12	13	16.13	16.21	16.30		
5	256QAM	25	0	16.21	16.29	16.27		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	16.30	16.15	16.40		
3	QPSK	1	8	16.16	16.37	16.22	17.5	0
3	QPSK	1	14	16.19	16.13	16.07		
3	QPSK	8	0	16.16	16.12	16.11		
3	QPSK	8	4	16.23	16.17	16.26	17.5	0
3	QPSK	8	7	16.26	16.06	16.14		
3	QPSK	15	0	16.16	16.02	16.38		
3	16QAM	1	0	15.98	16.22	16.34		
3	16QAM	1	8	16.16	16.07	16.18	17.5	0
3	16QAM	1	14	16.29	16.07	16.11		
3	16QAM	8	0	16.03	16.22	16.33		
3	16QAM	8	4	16.31	16.24	16.10	17.5	0
3	16QAM	8	7	16.05	16.26	16.19		
3	16QAM	15	0	16.21	16.06	16.29		
3	64QAM	1	0	16.32	16.37	16.17		
3	64QAM	1	8	16.20	16.38	16.26	17.5	0
3	64QAM	1	14	16.01	16.07	16.22		
3	64QAM	8	0	16.34	16.32	16.12		
3	64QAM	8	4	16.23	16.14	16.04	17.5	0
3	64QAM	8	7	16.12	16.32	16.29		
3	64QAM	15	0	16.34	16.07	16.08		
3	256QAM	1	0	16.36	16.28	16.17		
3	256QAM	1	8	16.02	16.28	16.02	17.5	0
3	256QAM	1	14	16.21	16.01	16.11		
3	256QAM	8	0	16.29	16.11	16.22		
3	256QAM	8	4	16.14	16.12	16.24	17.5	0
3	256QAM	8	7	15.95	16.23	16.15		
3	256QAM	15	0	16.16	16.18	16.28		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	16.18	16.32	16.40		
1.4	QPSK	1	3	16.27	16.35	16.22		
1.4	QPSK	1	5	16.24	16.15	16.17	17.5	0
1.4	QPSK	3	0	16.21	16.01	16.19		
1.4	QPSK	3	1	16.34	16.30	16.20		
1.4	QPSK	3	3	16.22	16.24	16.07		
1.4	QPSK	6	0	16.35	16.01	16.35	17.5	0
1.4	16QAM	1	0	16.04	16.35	16.28		
1.4	16QAM	1	3	16.09	15.96	16.22		
1.4	16QAM	1	5	16.06	16.24	16.27	17.5	0
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Band 30

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					27710			
Frequency (MHz)					2310			
10	QPSK	1	0		12.95			
10	QPSK	1	25		12.65		13.9	0
10	QPSK	1	49		12.80			
10	QPSK	25	0		12.92			
10	QPSK	25	12		12.93		13.9	0
10	QPSK	25	25		12.89			
10	QPSK	50	0		12.86			
10	16QAM	1	0		12.80			
10	16QAM	1	25		12.91		13.9	0
10	16QAM	1	49		12.91			
10	16QAM	25	0		12.93			
10	16QAM	25	12		12.85		13.9	0
10	16QAM	25	25		12.83			
10	16QAM	50	0		12.80			
10	64QAM	1	0		12.84			
10	64QAM	1	25		12.85		13.9	0
10	64QAM	1	49		12.83			
10	64QAM	25	0		12.85			
10	64QAM	25	12		12.86		13.9	0
10	64QAM	25	25		12.84			
10	64QAM	50	0		12.90			
10	256QAM	1	0		12.81			
10	256QAM	1	25		12.74		13.9	0
10	256QAM	1	49		12.73			
10	256QAM	25	0		12.88			
10	256QAM	25	12		12.83		13.9	0
10	256QAM	25	25		12.65			
10	256QAM	50	0		12.65			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	12.83	12.85	12.92		
5	QPSK	1	12	12.62	12.58	12.52	13.9	0
5	QPSK	1	24	12.73	12.57	12.60		
5	QPSK	12	0	12.69	12.94	12.81		
5	QPSK	12	7	12.80	12.71	12.86	13.9	0
5	QPSK	12	13	12.82	12.83	12.89		
5	QPSK	25	0	12.78	12.89	12.75		
5	16QAM	1	0	12.75	12.67	12.70		
5	16QAM	1	12	12.80	12.71	12.84	13.9	0
5	16QAM	1	24	12.92	12.87	12.87		
5	16QAM	12	0	12.74	12.84	12.82		
5	16QAM	12	7	12.77	12.86	12.63	13.9	0
5	16QAM	12	13	12.79	12.85	12.79		
5	16QAM	25	0	12.68	12.82	12.60		
5	64QAM	1	0	12.79	12.75	12.61		
5	64QAM	1	12	12.68	12.90	12.83	13.9	0
5	64QAM	1	24	12.76	12.78	12.77		
5	64QAM	12	0	12.81	12.77	12.67		
5	64QAM	12	7	12.66	12.75	12.78	13.9	0
5	64QAM	12	13	12.65	12.60	12.75		
5	64QAM	25	0	12.84	12.72	12.76		
5	256QAM	1	0	12.61	12.79	12.85		
5	256QAM	1	12	12.70	12.77	12.66	13.9	0
5	256QAM	1	24	12.79	12.84	12.71		
5	256QAM	12	0	12.62	12.65	12.75		
5	256QAM	12	7	12.75	12.64	12.64	13.9	0
5	256QAM	12	13	12.89	12.84	12.79		
5	256QAM	25	0	12.94	12.85	12.81		

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)				1720	1745	1770		
20	QPSK	1	0	12.45	12.46	12.43		
20	QPSK	1	49	12.30	12.29	12.24	13.3	0
20	QPSK	1	99	12.26	12.32	12.27		
20	QPSK	50	0	12.36	12.42	12.30		
20	QPSK	50	24	12.27	12.33	12.40	13.3	0
20	QPSK	50	50	12.32	12.36	12.34		
20	QPSK	100	0	12.28	12.35	12.33		
20	16QAM	1	0	12.33	12.34	12.33		
20	16QAM	1	49	12.39	12.37	12.33	13.3	0
20	16QAM	1	99	12.32	12.36	12.38		
20	16QAM	50	0	12.38	12.33	12.32		
20	16QAM	50	24	12.39	12.38	12.31	13.3	0
20	16QAM	50	50	12.36	12.37	12.27		
20	16QAM	100	0	12.30	12.32	12.32		
20	64QAM	1	0	12.34	12.32	12.37		
20	64QAM	1	49	12.38	12.39	12.31	13.3	0
20	64QAM	1	99	12.26	12.34	12.33		
20	64QAM	50	0	12.27	12.31	12.21		
20	64QAM	50	24	12.28	12.29	12.20	13.3	0
20	64QAM	50	50	12.35	12.36	12.40		
20	64QAM	100	0	12.24	12.32	12.31		
20	256QAM	1	0	12.09	12.31	12.13		
20	256QAM	1	49	12.26	12.44	12.22	13.3	0
20	256QAM	1	99	12.07	12.09	12.13		
20	256QAM	50	0	12.09	12.22	12.14		
20	256QAM	50	24	12.16	12.16	11.96	13.3	0
20	256QAM	50	50	12.36	12.15	12.44		
20	256QAM	100	0	11.99	12.28	12.15		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	12.30	12.41	12.38		
15	QPSK	1	37	12.19	12.30	12.16	13.3	0
15	QPSK	1	74	12.15	12.35	12.20		
15	QPSK	36	0	12.19	12.35	12.06		
15	QPSK	36	20	12.05	12.22	12.28	13.3	0
15	QPSK	36	39	12.17	12.38	12.38		
15	QPSK	75	0	12.14	12.40	12.28		
15	16QAM	1	0	12.36	12.17	12.33		
15	16QAM	1	37	12.26	12.40	12.34	13.3	0
15	16QAM	1	74	12.24	12.12	12.42		
15	16QAM	36	0	12.24	12.11	12.13		
15	16QAM	36	20	12.17	12.35	12.15	13.3	0
15	16QAM	36	39	12.30	12.15	12.07		
15	16QAM	75	0	12.05	12.26	12.27		
15	64QAM	1	0	12.30	12.19	12.29		
15	64QAM	1	37	12.40	12.20	12.35	13.3	0
15	64QAM	1	74	12.13	12.19	12.18		
15	64QAM	36	0	12.17	12.31	12.17		
15	64QAM	36	20	12.13	12.33	12.19	13.3	0
15	64QAM	36	39	12.33	12.16	12.45		
15	64QAM	75	0	12.23	12.27	12.22		
15	256QAM	1	0	12.38	12.32	12.35		
15	256QAM	1	37	12.41	12.19	12.16	13.3	0
15	256QAM	1	74	12.26	12.24	12.23		
15	256QAM	36	0	12.27	12.25	12.04		
15	256QAM	36	20	12.33	12.30	11.96	13.3	0
15	256QAM	36	39	12.18	12.14	12.23		
15	256QAM	75	0	12.16	12.21	12.14		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	12.30	12.22	12.42		
10	QPSK	1	25	12.10	12.26	12.02	13.3	0
10	QPSK	1	49	12.29	12.31	12.11		
10	QPSK	25	0	12.12	12.37	12.23		
10	QPSK	25	12	12.08	12.34	12.43	13.3	0
10	QPSK	25	25	12.24	12.23	12.28		
10	QPSK	50	0	12.31	12.32	12.30		
10	16QAM	1	0	12.26	12.38	12.25		
10	16QAM	1	25	12.33	12.15	12.29	13.3	0
10	16QAM	1	49	12.18	12.13	12.29		
10	16QAM	25	0	12.38	12.38	12.31		
10	16QAM	25	12	12.33	12.23	12.33	13.3	0
10	16QAM	25	25	12.35	12.18	12.05		
10	16QAM	50	0	12.30	12.29	12.07		
10	64QAM	1	0	12.37	12.33	12.28		
10	64QAM	1	25	12.43	12.34	12.23	13.3	0
10	64QAM	1	49	12.08	12.25	12.13		
10	64QAM	25	0	12.07	12.15	12.21		
10	64QAM	25	12	12.14	12.06	12.03	13.3	0
10	64QAM	25	25	12.11	12.13	12.30		
10	64QAM	50	0	12.13	12.13	12.21		
10	256QAM	1	0	12.37	12.34	12.41		
10	256QAM	1	25	12.22	12.38	12.19	13.3	0
10	256QAM	1	49	12.28	12.21	12.19		
10	256QAM	25	0	12.19	12.11	11.99		
10	256QAM	25	12	12.27	12.17	12.04	13.3	0
10	256QAM	25	25	12.26	12.13	12.26		
10	256QAM	50	0	12.00	12.35	12.10		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	12.44	12.21	12.36		
5	QPSK	1	12	12.35	12.11	12.11	13.3	0
5	QPSK	1	24	12.09	12.11	12.11		
5	QPSK	12	0	12.26	12.25	12.35		
5	QPSK	12	7	12.09	12.19	12.25	13.3	0
5	QPSK	12	13	12.14	12.22	12.14		
5	QPSK	25	0	12.13	12.17	12.37		
5	16QAM	1	0	12.13	12.38	12.12		
5	16QAM	1	12	12.19	12.39	12.33	13.3	0
5	16QAM	1	24	12.35	12.29	12.40		
5	16QAM	12	0	12.41	12.18	12.30		
5	16QAM	12	7	12.41	12.31	12.33	13.3	0
5	16QAM	12	13	12.14	12.24	12.14		
5	16QAM	25	0	12.08	12.14	12.32		
5	64QAM	1	0	12.34	12.10	12.41		
5	64QAM	1	12	12.15	12.26	12.32	13.3	0
5	64QAM	1	24	12.16	12.22	12.25		
5	64QAM	12	0	12.04	12.30	12.10		
5	64QAM	12	7	12.16	12.06	11.95	13.3	0
5	64QAM	12	13	12.25	12.35	12.27		
5	64QAM	25	0	12.20	12.23	12.36		
5	256QAM	1	0	12.17	12.09	12.36		
5	256QAM	1	12	12.40	12.18	12.30	13.3	0
5	256QAM	1	24	12.07	12.37	12.25		
5	256QAM	12	0	12.11	12.33	12.23		
5	256QAM	12	7	12.11	12.27	12.25	13.3	0
5	256QAM	12	13	12.32	12.16	12.15		
5	256QAM	25	0	12.20	12.09	12.36		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	12.32	12.30	12.31		
3	QPSK	1	8	12.28	12.07	12.15	13.3	0
3	QPSK	1	14	12.25	12.14	12.17		
3	QPSK	8	0	12.25	12.23	12.23		
3	QPSK	8	4	12.28	12.34	12.23	13.3	0
3	QPSK	8	7	12.19	12.34	12.14		
3	QPSK	15	0	12.11	12.22	12.35		
3	16QAM	1	0	12.30	12.12	12.20		
3	16QAM	1	8	12.30	12.26	12.08	13.3	0
3	16QAM	1	14	12.15	12.40	12.30		
3	16QAM	8	0	12.36	12.16	12.28		
3	16QAM	8	4	12.35	12.13	12.16	13.3	0
3	16QAM	8	7	12.25	12.41	12.08		
3	16QAM	15	0	12.29	12.23	12.10		
3	64QAM	1	0	12.16	12.12	12.21		
3	64QAM	1	8	12.16	12.43	12.12	13.3	0
3	64QAM	1	14	12.10	12.16	12.11		
3	64QAM	8	0	12.26	12.18	12.15		
3	64QAM	8	4	12.15	12.14	12.06	13.3	0
3	64QAM	8	7	12.21	12.33	12.35		
3	64QAM	15	0	12.20	12.20	12.12		
3	256QAM	1	0	12.25	12.34	12.15		
3	256QAM	1	8	12.34	12.27	12.25	13.3	0
3	256QAM	1	14	12.24	12.33	12.25		
3	256QAM	8	0	12.19	12.32	12.15		
3	256QAM	8	4	12.15	12.26	12.17	13.3	0
3	256QAM	8	7	12.36	12.34	12.27		
3	256QAM	15	0	12.29	12.14	12.17		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	12.29	12.35	12.35		
1.4	QPSK	1	3	12.11	12.17	12.26		
1.4	QPSK	1	5	12.29	12.30	12.18	13.3	0
1.4	QPSK	3	0	12.36	12.28	12.18		
1.4	QPSK	3	1	12.17	12.08	12.32		
1.4	QPSK	3	3	12.37	12.31	12.34		
1.4	QPSK	6	0	12.18	12.24	12.22	13.3	0
1.4	16QAM	1	0	12.11	12.10	12.18		
1.4	16QAM	1	3	12.23	12.28	12.25		
1.4	16QAM	1	5	12.15	12.15	12.19	13.3	0
1.4	16QAM	3	0	12.28	12.34	12.17		
1.4	16QAM	3	1	12.39	12.13	12.36		
1.4	16QAM	3	3	12.11	12.20	12.31		
1.4	16QAM	6	0	12.22	12.29	12.18	13.3	0
1.4	64QAM	1	0	12.36	12.34	12.12		
1.4	64QAM	1	3	12.41	12.29	12.08		
1.4	64QAM	1	5	12.23	12.17	12.08	13.3	0
1.4	64QAM	3	0	12.32	12.31	12.13		
1.4	64QAM	3	1	12.03	12.21	12.10		
1.4	64QAM	3	3	12.17	12.40	12.45		
1.4	64QAM	6	0	12.00	12.15	12.36	13.3	0
1.4	256QAM	1	0	12.34	12.13	12.16		
1.4	256QAM	1	3	12.43	12.26	12.20		
1.4	256QAM	1	5	12.27	12.25	12.29	13.3	0
1.4	256QAM	3	0	12.26	12.23	12.06		
1.4	256QAM	3	1	12.14	12.10	12.23		
1.4	256QAM	3	3	12.32	12.34	12.15		
1.4	256QAM	6	0	12.05	12.18	12.31	13.3	0

Band 71

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	683	688		
20	QPSK	1	0	17.57	17.76	17.67		
20	QPSK	1	49	17.72	17.65	17.72	18.5	0
20	QPSK	1	99	17.54	17.64	17.62		
20	QPSK	50	0	17.62	17.53	17.61		
20	QPSK	50	24	17.64	17.65	17.46	18.5	0
20	QPSK	50	50	17.42	17.36	17.38		
20	QPSK	100	0	17.34	17.47	17.46		
20	16QAM	1	0	17.71	17.72	17.71		
20	16QAM	1	49	17.71	17.70	17.71	18.5	0
20	16QAM	1	99	17.70	17.73	17.64		
20	16QAM	50	0	17.56	17.56	17.61		
20	16QAM	50	24	17.61	17.61	17.69	18.5	0
20	16QAM	50	50	17.64	17.61	17.57		
20	16QAM	100	0	17.68	17.60	17.58		
20	64QAM	1	0	17.54	17.48	17.56		
20	64QAM	1	49	17.45	17.38	17.32	18.5	0
20	64QAM	1	99	17.28	17.29	17.34		
20	64QAM	50	0	17.49	17.46	17.48		
20	64QAM	50	24	17.65	17.64	17.57	18.5	0
20	64QAM	50	50	17.58	17.57	17.62		
20	64QAM	100	0	17.56	17.54	17.48		
20	256QAM	1	0	17.42	17.44	17.44		
20	256QAM	1	49	17.59	17.57	17.59	18.5	0
20	256QAM	1	99	17.29	17.26	17.23		
20	256QAM	50	0	17.43	17.44	17.44		
20	256QAM	50	24	17.66	17.65	17.72	18.5	0
20	256QAM	50	50	17.48	17.54	17.49		
20	256QAM	100	0	17.23	17.23	17.30		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	17.34	17.75	17.63		
15	QPSK	1	37	17.70	17.61	17.54	18.5	0
15	QPSK	1	74	17.34	17.44	17.42		
15	QPSK	36	0	17.62	17.43	17.50		
15	QPSK	36	20	17.61	17.41	17.51	18.5	0
15	QPSK	36	39	17.17	17.13	17.34		
15	QPSK	75	0	17.09	17.30	17.27		
15	16QAM	1	0	17.73	17.60	17.62		
15	16QAM	1	37	17.64	17.66	17.56	18.5	0
15	16QAM	1	74	17.65	17.52	17.44		
15	16QAM	36	0	17.52	17.39	17.50		
15	16QAM	36	20	17.52	17.58	17.67	18.5	0
15	16QAM	36	39	17.47	17.36	17.44		
15	16QAM	75	0	17.44	17.46	17.59		
15	64QAM	1	0	17.38	17.38	17.33		
15	64QAM	1	37	17.24	17.18	17.23	18.5	0
15	64QAM	1	74	17.31	17.27	17.09		
15	64QAM	36	0	17.31	17.42	17.36		
15	64QAM	36	20	17.50	17.52	17.52	18.5	0
15	64QAM	36	39	17.39	17.36	17.50		
15	64QAM	75	0	17.46	17.38	17.41		
15	256QAM	1	0	17.19	17.39	17.44		
15	256QAM	1	37	17.63	17.35	17.59	18.5	0
15	256QAM	1	74	17.22	17.21	17.18		
15	256QAM	36	0	17.43	17.43	17.47		
15	256QAM	36	20	17.57	17.63	17.62	18.5	0
15	256QAM	36	39	17.34	17.33	17.44		
15	256QAM	75	0	17.05	17.04	17.29		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	17.60	17.70	17.51		
10	QPSK	1	25	17.54	17.64	17.63	18.5	0
10	QPSK	1	49	17.59	17.64	17.42		
10	QPSK	25	0	17.66	17.43	17.46		
10	QPSK	25	12	17.67	17.69	17.28	18.5	0
10	QPSK	25	25	17.32	17.28	17.26		
10	QPSK	50	0	17.26	17.43	17.40		
10	16QAM	1	0	17.54	17.73	17.72		
10	16QAM	1	25	17.53	17.48	17.53	18.5	0
10	16QAM	1	49	17.54	17.69	17.50		
10	16QAM	25	0	17.60	17.61	17.51		
10	16QAM	25	12	17.56	17.42	17.74	18.5	0
10	16QAM	25	25	17.57	17.65	17.37		
10	16QAM	50	0	17.50	17.59	17.59		
10	64QAM	1	0	17.36	17.48	17.44		
10	64QAM	1	25	17.44	17.30	17.32	18.5	0
10	64QAM	1	49	17.18	17.27	17.15		
10	64QAM	25	0	17.54	17.38	17.50		
10	64QAM	25	12	17.57	17.50	17.54	18.5	0
10	64QAM	25	25	17.42	17.45	17.55		
10	64QAM	50	0	17.52	17.52	17.44		
10	256QAM	1	0	17.38	17.38	17.23		
10	256QAM	1	25	17.47	17.43	17.58	18.5	0
10	256QAM	1	49	17.16	17.26	17.17		
10	256QAM	25	0	17.32	17.26	17.20		
10	256QAM	25	12	17.62	17.52	17.36	18.5	0
10	256QAM	25	25	17.44	17.32	17.32		
10	256QAM	50	0	17.10	17.19	17.27		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	17.45	17.70	17.44		
5	QPSK	1	12	17.70	17.46	17.66	18.5	0
5	QPSK	1	24	17.53	17.48	17.47		
5	QPSK	12	0	17.61	17.49	17.48		
5	QPSK	12	7	17.62	17.43	17.36	18.5	0
5	QPSK	12	13	17.30	17.36	17.39		
5	QPSK	25	0	17.21	17.25	17.44		
5	16QAM	1	0	17.62	17.47	17.48		
5	16QAM	1	12	17.74	17.45	17.66	18.5	0
5	16QAM	1	24	17.71	17.51	17.44		
5	16QAM	12	0	17.33	17.47	17.37		
5	16QAM	12	7	17.42	17.64	17.53	18.5	0
5	16QAM	12	13	17.59	17.52	17.37		
5	16QAM	25	0	17.61	17.43	17.56		
5	64QAM	1	0	17.45	17.30	17.36		
5	64QAM	1	12	17.31	17.25	17.17	18.5	0
5	64QAM	1	24	17.07	17.34	17.10		
5	64QAM	12	0	17.31	17.49	17.43		
5	64QAM	12	7	17.48	17.46	17.35	18.5	0
5	64QAM	12	13	17.41	17.50	17.39		
5	64QAM	25	0	17.32	17.39	17.44		
5	256QAM	1	0	17.36	17.43	17.47		
5	256QAM	1	12	17.52	17.53	17.53	18.5	0
5	256QAM	1	24	17.34	17.19	17.25		
5	256QAM	12	0	17.47	17.22	17.38		
5	256QAM	12	7	17.46	17.47	17.42	18.5	0
5	256QAM	12	13	17.49	17.42	17.36		
5	256QAM	25	0	17.15	17.04	17.29		

Band 38(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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	13.47	13.04	13.19	14.5	0
20	QPSK	1	49	13.25	13.05	13.11		
20	QPSK	1	99	13.26	13.03	13.08		
20	QPSK	50	0	13.34	13.25	13.25	14.5	0
20	QPSK	50	24	13.46	13.24	13.27		
20	QPSK	50	50	13.33	13.24	13.25		
20	QPSK	100	0	13.38	13.23	13.25		
20	16QAM	1	0	13.25	13.26	13.20	14.5	0
20	16QAM	1	49	13.36	13.13	13.19		
20	16QAM	1	99	13.24	13.25	13.09		
20	16QAM	50	0	13.38	13.16	13.18	14.5	0
20	16QAM	50	24	13.39	13.35	13.29		
20	16QAM	50	50	13.35	13.24	13.26		
20	16QAM	100	0	13.41	13.24	13.27		
20	64QAM	1	0	12.85	12.84	12.89	14.5	0
20	64QAM	1	49	13.00	12.84	12.92		
20	64QAM	1	99	13.15	12.79	12.95		
20	64QAM	50	0	13.30	13.14	13.16	14.5	0
20	64QAM	50	24	13.39	13.13	13.27		
20	64QAM	50	50	13.42	13.21	13.24		
20	64QAM	100	0	13.30	13.12	13.24		
20	256QAM	1	0	12.66	12.71	12.81	14.5	0
20	256QAM	1	49	12.89	12.79	12.96		
20	256QAM	1	99	13.11	12.73	12.79		
20	256QAM	50	0	13.22	12.93	12.98	14.5	0
20	256QAM	50	24	13.22	12.98	13.06		
20	256QAM	50	50	13.33	13.18	13.04		
20	256QAM	100	0	13.21	12.94	13.16		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	13.30	12.89	13.06	14.5	0
15	QPSK	1	37	13.23	13.25	13.29		
15	QPSK	1	74	13.14	13.09	13.06		
15	QPSK	36	0	13.34	13.16	13.20	14.5	0
15	QPSK	36	20	13.32	13.14	13.18		
15	QPSK	36	39	13.32	13.10	13.12		
15	QPSK	75	0	13.19	13.15	13.14		
15	16QAM	1	0	13.29	13.17	13.05	14.5	0
15	16QAM	1	37	13.16	12.94	12.99		
15	16QAM	1	74	13.09	13.06	13.05		
15	16QAM	36	0	13.22	13.17	13.16	14.5	0
15	16QAM	36	20	13.25	13.18	13.32		
15	16QAM	36	39	13.28	13.24	13.06		
15	16QAM	75	0	13.32	13.02	13.05		
15	64QAM	1	0	13.15	12.96	13.27	14.5	0
15	64QAM	1	37	13.33	13.25	13.25		
15	64QAM	1	74	13.27	13.07	13.27		
15	64QAM	36	0	13.21	12.91	13.25	14.5	0
15	64QAM	36	20	13.18	13.06	13.24		
15	64QAM	36	39	13.26	13.01	12.99		
15	64QAM	75	0	13.33	13.14	13.28		
15	256QAM	1	0	13.15	13.12	13.03	14.5	0
15	256QAM	1	37	13.19	13.26	13.01		
15	256QAM	1	74	13.15	12.88	13.07		
15	256QAM	36	0	13.16	12.95	12.87	14.5	0
15	256QAM	36	20	13.15	13.03	13.04		
15	256QAM	36	39	13.24	13.21	13.07		
15	256QAM	75	0	13.04	12.74	13.16		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	13.31	13.05	13.07	14.5	0
10	QPSK	1	25	13.29	13.03	13.05		
10	QPSK	1	49	13.20	12.87	12.91		
10	QPSK	25	0	13.36	13.20	13.09	14.5	0
10	QPSK	25	12	13.29	12.99	13.05		
10	QPSK	25	25	13.28	13.20	13.12		
10	QPSK	50	0	13.43	13.09	13.29		
10	16QAM	1	0	13.22	13.28	13.16	14.5	0
10	16QAM	1	25	13.18	13.13	13.01		
10	16QAM	1	49	13.27	13.24	13.06		
10	16QAM	25	0	13.24	13.12	12.98	14.5	0
10	16QAM	25	12	13.38	13.12	13.25		
10	16QAM	25	25	13.22	13.20	13.26		
10	16QAM	50	0	13.44	13.11	13.24		
10	64QAM	1	0	13.24	12.99	13.30	14.5	0
10	64QAM	1	25	13.24	13.12	13.29		
10	64QAM	1	49	13.06	13.17	13.23		
10	64QAM	25	0	13.31	13.19	13.04	14.5	0
10	64QAM	25	12	13.19	13.09	13.31		
10	64QAM	25	25	13.32	13.06	13.28		
10	64QAM	50	0	13.29	13.13	13.14		
10	256QAM	1	0	13.35	13.04	13.18	14.5	0
10	256QAM	1	25	13.17	13.12	13.18		
10	256QAM	1	49	13.31	13.17	13.17		
10	256QAM	25	0	13.22	12.98	12.89	14.5	0
10	256QAM	25	12	13.17	12.93	12.97		
10	256QAM	25	25	13.38	13.19	12.91		
10	256QAM	50	0	13.22	12.84	13.07		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	13.40	13.04	13.03	14.5	0
5	QPSK	1	12	13.02	12.98	13.00		
5	QPSK	1	24	13.19	13.03	13.00		
5	QPSK	12	0	13.13	13.06	13.23	14.5	0
5	QPSK	12	7	13.50	13.21	13.22		
5	QPSK	12	13	13.19	13.28	13.28		
5	QPSK	25	0	13.43	13.26	13.12		
5	16QAM	1	0	13.24	13.26	13.15	14.5	0
5	16QAM	1	12	13.32	13.10	12.99		
5	16QAM	1	24	13.08	13.30	13.00		
5	16QAM	12	0	13.41	13.08	13.06	14.5	0
5	16QAM	12	7	13.28	13.24	13.34		
5	16QAM	12	13	13.12	13.05	13.17		
5	16QAM	25	0	13.28	13.28	13.32		
5	64QAM	1	0	13.19	12.98	13.24	14.5	0
5	64QAM	1	12	13.36	12.98	13.01		
5	64QAM	1	24	13.14	13.04	13.09		
5	64QAM	12	0	13.21	13.07	12.98	14.5	0
5	64QAM	12	7	13.25	13.14	13.20		
5	64QAM	12	13	13.24	13.01	13.13		
5	64QAM	25	0	13.12	13.03	13.29		
5	256QAM	1	0	13.36	12.95	13.15	14.5	0
5	256QAM	1	12	13.34	13.11	13.28		
5	256QAM	1	24	13.06	13.13	13.00		
5	256QAM	12	0	13.04	12.76	12.95	14.5	0
5	256QAM	12	7	13.21	12.91	12.93		
5	256QAM	12	13	13.23	12.99	12.91		
5	256QAM	25	0	13.24	12.93	13.11		

Band 41 (2.6G Band)--Class 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	13.43	13.32	13.36	13.32	13.38	14.5	0
20	QPSK	1	49	13.28	13.48	13.32	13.24	13.16		
20	QPSK	1	99	13.12	13.38	13.20	13.07	13.02		
20	QPSK	50	0	13.27	13.34	13.14	13.10	13.16	14.5	0
20	QPSK	50	24	13.33	13.40	13.28	13.20	13.25		
20	QPSK	50	50	13.19	13.45	13.26	13.15	13.14		
20	QPSK	100	0	13.26	13.45	13.17	13.16	13.14		
20	16QAM	1	0	13.20	13.28	13.22	13.27	13.26	14.5	0
20	16QAM	1	49	13.17	13.29	13.23	13.11	12.97		
20	16QAM	1	99	13.25	13.20	13.23	13.05	13.02		
20	16QAM	50	0	13.21	13.27	13.21	13.17	13.18	14.5	0
20	16QAM	50	24	13.24	13.21	13.24	13.21	13.26		
20	16QAM	50	50	13.20	13.25	13.29	13.23	13.13		
20	16QAM	100	0	13.15	13.26	13.23	13.14	13.25		
20	64QAM	1	0	13.16	13.24	12.98	13.15	13.19	14.5	0
20	64QAM	1	49	13.06	13.20	12.93	12.98	13.05		
20	64QAM	1	99	13.05	13.35	13.12	13.16	13.12		
20	64QAM	50	0	13.09	13.21	13.18	13.08	13.16	14.5	0
20	64QAM	50	24	13.17	13.24	13.09	13.08	13.14		
20	64QAM	50	50	13.10	13.28	13.24	13.15	13.26		
20	64QAM	100	0	13.10	13.22	13.09	13.06	13.12		
20	256QAM	1	0	13.08	12.99	12.86	13.10	12.96	14.5	0
20	256QAM	1	49	12.87	13.21	12.82	12.98	12.85		
20	256QAM	1	99	12.83	13.29	12.97	13.01	12.95		
20	256QAM	50	0	12.84	13.05	12.97	13.00	12.94	14.5	0
20	256QAM	50	24	13.16	13.11	13.07	12.89	13.10		
20	256QAM	50	50	13.02	13.29	13.19	12.95	13.17		
20	256QAM	100	0	13.07	13.17	13.03	13.11	12.87		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	13.31	13.10	13.22	13.27	13.20	14.5	0
15	QPSK	1	37	13.26	13.31	13.12	13.20	13.16		
15	QPSK	1	74	12.94	13.22	13.19	13.01	12.98		
15	QPSK	36	0	13.09	13.34	13.08	12.90	13.16	14.5	0
15	QPSK	36	20	13.13	13.35	13.23	12.97	13.26		
15	QPSK	36	39	13.04	13.38	13.02	13.07	13.06		
15	QPSK	75	0	13.23	13.23	13.22	12.94	13.18		
15	16QAM	1	0	13.05	13.15	12.97	13.17	13.02	14.5	0
15	16QAM	1	37	12.93	13.33	13.18	13.11	12.88		
15	16QAM	1	74	13.27	13.23	13.04	13.02	12.99		
15	16QAM	36	0	12.99	13.08	13.06	13.08	13.16	14.5	0
15	16QAM	36	20	13.04	13.24	13.03	13.20	13.09		
15	16QAM	36	39	13.04	13.15	13.07	13.07	13.04		
15	16QAM	75	0	13.06	13.13	13.28	13.02	13.21		
15	64QAM	1	0	13.05	13.25	13.01	13.11	13.20	14.5	0
15	64QAM	1	37	12.96	13.21	12.90	12.95	12.95		
15	64QAM	1	74	12.99	13.21	12.93	12.98	12.94		
15	64QAM	36	0	13.04	13.19	12.94	13.05	12.95	14.5	0
15	64QAM	36	20	13.13	13.16	13.04	13.05	12.93		
15	64QAM	36	39	13.01	13.05	13.09	13.17	13.13		
15	64QAM	75	0	13.03	12.97	13.11	12.91	13.15		
15	256QAM	1	0	13.05	13.00	12.89	12.94	12.98	14.5	0
15	256QAM	1	37	12.99	13.01	12.95	12.97	12.82		
15	256QAM	1	74	12.94	13.30	13.14	13.05	13.05		
15	256QAM	36	0	12.92	13.05	13.14	12.83	13.01	14.5	0
15	256QAM	36	20	13.10	13.28	12.97	13.06	12.90		
15	256QAM	36	39	13.03	13.19	13.24	13.11	13.07		
15	256QAM	75	0	12.98	13.19	12.86	13.01	13.01		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	13.43	13.17	13.24	13.30	13.39	14.5	0
10	QPSK	1	25	13.15	13.41	13.31	13.04	13.11		
10	QPSK	1	49	12.93	13.41	13.15	12.97	13.00		
10	QPSK	25	0	13.29	13.26	12.95	12.91	12.97	14.5	0
10	QPSK	25	12	13.36	13.20	13.33	12.98	13.15		
10	QPSK	25	25	12.98	13.29	13.14	13.01	13.01		
10	QPSK	50	0	13.30	13.31	13.20	13.19	13.16		
10	16QAM	1	0	13.08	13.27	13.25	13.11	13.09	14.5	0
10	16QAM	1	25	12.92	13.16	13.15	12.98	12.96		
10	16QAM	1	49	13.17	13.25	13.17	12.85	12.84		
10	16QAM	25	0	13.06	13.25	13.24	13.17	13.03	14.5	0
10	16QAM	25	12	13.05	13.10	13.27	13.17	13.26		
10	16QAM	25	25	13.02	13.10	13.11	13.25	12.95		
10	16QAM	50	0	12.94	13.14	13.28	12.89	13.22		
10	64QAM	1	0	13.00	13.06	12.96	12.98	13.13	14.5	0
10	64QAM	1	25	13.00	13.06	12.69	12.75	13.02		
10	64QAM	1	49	12.98	13.05	12.95	13.15	13.16		
10	64QAM	25	0	12.93	13.15	12.93	12.93	12.97	14.5	0
10	64QAM	25	12	13.19	13.02	13.11	13.05	12.97		
10	64QAM	25	25	12.88	13.03	13.10	13.09	13.30		
10	64QAM	50	0	12.87	13.09	13.03	12.95	13.00		
10	256QAM	1	0	13.02	12.99	12.96	12.94	13.21	14.5	0
10	256QAM	1	25	12.81	13.18	12.92	12.78	12.94		
10	256QAM	1	49	13.07	13.27	12.93	12.92	13.01		
10	256QAM	25	0	13.03	13.19	13.01	13.13	12.97	14.5	0
10	256QAM	25	12	13.02	13.06	12.91	12.98	13.12		
10	256QAM	25	25	12.99	13.28	13.13	13.02	13.24		
10	256QAM	50	0	12.90	13.14	12.97	13.03	12.90		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	13.28	13.14	13.16	13.10	13.27	14.5	0
5	QPSK	1	12	13.19	13.28	13.14	13.16	13.09		
5	QPSK	1	24	12.88	13.22	13.00	12.88	12.83		
5	QPSK	12	0	13.16	13.16	12.96	12.93	13.17	14.5	0
5	QPSK	12	7	13.28	13.33	13.15	13.13	13.30		
5	QPSK	12	13	12.99	13.21	13.04	12.97	13.05		
5	QPSK	25	0	13.10	13.33	12.97	12.97	13.03		
5	16QAM	1	0	13.05	13.11	13.02	13.29	13.04	14.5	0
5	16QAM	1	12	13.10	13.32	12.98	12.94	12.95		
5	16QAM	1	24	13.18	13.19	13.27	13.08	13.01		
5	16QAM	12	0	13.23	13.16	12.96	13.15	13.23	14.5	0
5	16QAM	12	7	13.27	13.26	13.17	13.16	13.14		
5	16QAM	12	13	13.00	13.04	13.12	12.99	13.07		
5	16QAM	25	0	13.03	13.14	13.03	13.15	13.26		
5	64QAM	1	0	12.98	13.00	12.98	13.10	13.06	14.5	0
5	64QAM	1	12	12.92	13.14	12.91	12.91	12.98		
5	64QAM	1	24	13.10	13.21	13.06	12.98	13.00		
5	64QAM	12	0	13.09	12.98	13.04	12.87	12.96	14.5	0
5	64QAM	12	7	13.18	12.99	13.02	13.05	13.14		
5	64QAM	12	13	12.99	13.24	13.16	13.16	13.16		
5	64QAM	25	0	13.01	13.27	12.95	13.10	13.07		
5	256QAM	1	0	12.92	13.06	12.82	13.16	13.09	14.5	0
5	256QAM	1	12	13.11	12.97	12.95	12.75	12.90		
5	256QAM	1	24	12.99	13.17	13.09	13.06	13.14		
5	256QAM	12	0	12.86	12.96	12.95	13.10	12.99	14.5	0
5	256QAM	12	7	13.16	13.12	12.99	13.10	13.09		
5	256QAM	12	13	13.05	13.33	13.29	13.14	13.01		
5	256QAM	25	0	13.06	13.20	12.90	13.03	12.87		

Band 41 (2.6G Band) HPUE (Limit 27)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	15.41	15.47	15.41	15.50	15.57	16.1	0
20	QPSK	1	49	15.36	15.68	15.29	15.34	15.43		
20	QPSK	1	99	15.36	15.52	15.46	15.45	15.50		
20	QPSK	50	0	15.59	15.65	15.48	15.51	15.42	16.1	0
20	QPSK	50	24	15.40	15.60	15.61	15.58	15.50		
20	QPSK	50	50	15.34	15.87	15.37	15.42	15.37		
20	QPSK	100	0	15.43	15.57	15.42	15.35	15.50		
20	16QAM	1	0	15.62	15.55	15.59	15.61	15.61	16.1	0
20	16QAM	1	49	15.48	15.47	15.63	15.67	15.47		
20	16QAM	1	99	15.42	15.52	15.46	15.50	15.53		
20	16QAM	50	0	15.66	15.48	15.55	15.58	15.48	16.1	0
20	16QAM	50	24	15.58	15.52	15.59	15.42	15.67		
20	16QAM	50	50	15.64	15.58	15.63	15.65	15.65		
20	16QAM	100	0	15.59	15.48	15.56	15.54	15.66		
20	64QAM	1	0	15.41	15.61	15.67	15.41	15.49	16.1	0
20	64QAM	1	49	15.26	15.48	15.42	15.45	15.40		
20	64QAM	1	99	15.48	15.52	15.42	15.62	15.65		
20	64QAM	50	0	15.61	15.41	15.47	15.61	15.40	16.1	0
20	64QAM	50	24	15.43	15.54	15.58	15.49	15.67		
20	64QAM	50	50	15.65	15.48	15.62	15.67	15.64		
20	64QAM	100	0	15.64	15.53	15.59	15.57	15.67		
20	256QAM	1	0	15.16	15.60	15.55	15.43	15.34	16.1	0
20	256QAM	1	49	15.15	15.23	15.31	15.37	15.33		
20	256QAM	1	99	15.23	15.28	15.17	15.49	15.60		
20	256QAM	50	0	15.55	15.25	15.50	15.51	15.41	16.1	0
20	256QAM	50	24	15.26	15.35	15.48	15.35	15.49		
20	256QAM	50	50	15.48	15.29	15.51	15.57	15.64		
20	256QAM	100	0	15.44	15.54	15.50	15.42	15.44		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	15.16	15.38	15.37	15.26	15.50	16.1	0
15	QPSK	1	37	15.24	15.47	15.31	15.14	15.43		
15	QPSK	1	74	15.24	15.41	15.47	15.31	15.55		
15	QPSK	36	0	15.58	15.57	15.25	15.28	15.44	16.1	0
15	QPSK	36	20	15.40	15.43	15.51	15.52	15.54		
15	QPSK	36	39	15.31	15.44	15.39	15.41	15.23		
15	QPSK	75	0	15.47	15.33	15.43	15.20	15.50		
15	16QAM	1	0	15.55	15.53	15.39	15.49	15.48	16.1	0
15	16QAM	1	37	15.42	15.35	15.56	15.57	15.31		
15	16QAM	1	74	15.44	15.42	15.48	15.46	15.41		
15	16QAM	36	0	15.63	15.32	15.55	15.34	15.36	16.1	0
15	16QAM	36	20	15.59	15.34	15.37	15.37	15.59		
15	16QAM	36	39	15.51	15.54	15.52	15.60	15.48		
15	16QAM	75	0	15.38	15.24	15.53	15.53	15.51		
15	64QAM	1	0	15.20	15.65	15.47	15.36	15.47	16.1	0
15	64QAM	1	37	15.09	15.39	15.43	15.32	15.42		
15	64QAM	1	74	15.23	15.46	15.41	15.63	15.57		
15	64QAM	36	0	15.61	15.23	15.39	15.48	15.17	16.1	0
15	64QAM	36	20	15.41	15.54	15.37	15.25	15.48		
15	64QAM	36	39	15.54	15.34	15.42	15.53	15.53		
15	64QAM	75	0	15.58	15.50	15.54	15.54	15.44		
15	256QAM	1	0	15.42	15.65	15.55	15.45	15.36	16.1	0
15	256QAM	1	37	15.22	15.29	15.43	15.46	15.45		
15	256QAM	1	74	15.47	15.49	15.31	15.50	15.67		
15	256QAM	36	0	15.66	15.24	15.44	15.65	15.33	16.1	0
15	256QAM	36	20	15.41	15.52	15.51	15.48	15.63		
15	256QAM	36	39	15.52	15.26	15.65	15.71	15.54		
15	256QAM	75	0	15.54	15.44	15.50	15.49	15.62		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	15.24	15.46	15.4	15.45	15.32	16.1	0
10	QPSK	1	25	15.14	15.6	15.12	15.19	15.3		
10	QPSK	1	49	15.34	15.52	15.51	15.24	15.53		
10	QPSK	25	0	15.4	15.52	15.53	15.42	15.29	16.1	0
10	QPSK	25	12	15.21	15.59	15.57	15.5	15.45		
10	QPSK	25	25	15.16	15.52	15.29	15.47	15.22		
10	QPSK	50	0	15.38	15.49	15.34	15.36	15.25		
10	16QAM	1	0	15.44	15.43	15.36	15.46	15.65	16.1	0
10	16QAM	1	25	15.43	15.3	15.59	15.67	15.24		
10	16QAM	1	49	15.46	15.32	15.38	15.55	15.57		
10	16QAM	25	0	15.59	15.49	15.38	15.34	15.24	16.1	0
10	16QAM	25	12	15.41	15.57	15.6	15.39	15.47		
10	16QAM	25	25	15.59	15.33	15.55	15.66	15.6		
10	16QAM	50	0	15.54	15.33	15.31	15.43	15.61	16.1	0
10	64QAM

Band 48 (3.5G Band)--FCC

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	13.64	13.65	13.67	13.84	14.7	0
20	QPSK	1	49	13.41	13.42	13.45	13.63		
20	QPSK	1	99	13.59	13.61	13.63	13.64		
20	QPSK	50	0	13.66	13.67	13.74	13.70	14.7	0
20	QPSK	50	24	13.74	13.57	13.74	13.81		
20	QPSK	50	50	13.79	13.72	13.79	13.64		
20	QPSK	100	0	13.61	13.62	13.60	13.64		
20	16QAM	1	0	13.69	13.63	13.61	13.60	14.7	0
20	16QAM	1	49	13.76	13.63	13.62	13.60		
20	16QAM	1	99	13.78	13.71	13.72	13.60		
20	16QAM	50	0	13.70	13.61	13.66	13.69	14.7	0
20	16QAM	50	24	13.69	13.67	13.66	13.74		
20	16QAM	50	50	13.71	13.74	13.79	13.78		
20	16QAM	100	0	13.77	13.73	13.66	13.70		
20	64QAM	1	0	13.62	13.56	13.63	13.53	14.7	0
20	64QAM	1	49	13.66	13.52	13.67	13.57		
20	64QAM	1	99	13.55	13.61	13.48	13.56		
20	64QAM	50	0	13.78	13.79	13.61	13.77	14.7	0
20	64QAM	50	24	13.74	13.67	13.68	13.66		
20	64QAM	50	50	13.56	13.51	13.56	13.59		
20	64QAM	100	0	13.56	13.72	13.61	13.63		
20	256QAM	1	0	13.73	13.59	13.61	13.67	14.7	0
20	256QAM	1	49	13.44	13.54	13.55	13.48		
20	256QAM	1	99	13.45	13.44	13.56	13.68		
20	256QAM	50	0	13.55	13.70	13.69	13.63	14.7	0
20	256QAM	50	24	13.68	13.72	13.74	13.66		
20	256QAM	50	50	13.62	13.55	13.67	13.62		
20	256QAM	100	0	13.66	13.69	13.69	13.60		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	13.66	13.60	13.42	13.72	14.7	0
15	QPSK	1	37	13.22	13.29	13.38	13.65		
15	QPSK	1	74	13.39	13.60	13.59	13.52		
15	QPSK	36	0	13.70	13.63	13.56	13.61	14.7	0
15	QPSK	36	20	13.72	13.45	13.51	13.67		
15	QPSK	36	39	13.80	13.77	13.63	13.47		
15	QPSK	75	0	13.39	13.40	13.35	13.68		
15	16QAM	1	0	13.71	13.59	13.62	13.56	14.7	0
15	16QAM	1	37	13.74	13.50	13.41	13.39		
15	16QAM	1	74	13.67	13.63	13.64	13.57		
15	16QAM	36	0	13.70	13.37	13.55	13.46	14.7	0
15	16QAM	36	20	13.59	13.67	13.48	13.70		
15	16QAM	36	39	13.51	13.70	13.76	13.69		
15	16QAM	75	0	13.56	13.78	13.60	13.46		
15	64QAM	1	0	13.67	13.61	13.64	13.28	14.7	0
15	64QAM	1	37	13.47	13.47	13.68	13.49		
15	64QAM	1	74	13.50	13.64	13.39	13.34		
15	64QAM	36	0	13.69	13.79	13.57	13.71	14.7	0
15	64QAM	36	20	13.70	13.52	13.60	13.50		
15	64QAM	36	39	13.35	13.45	13.45	13.40		
15	64QAM	75	0	13.49	13.71	13.64	13.62		
15	256QAM	1	0	13.48	13.49	13.63	13.65	14.7	0
15	256QAM	1	37	13.25	13.58	13.34	13.33		
15	256QAM	1	74	13.31	13.33	13.59	13.50		
15	256QAM	36	0	13.54	13.59	13.70	13.53	14.7	0
15	256QAM	36	20	13.65	13.49	13.62	13.60		
15	256QAM	36	39	13.48	13.38	13.60	13.54		
15	256QAM	75	0	13.49	13.59	13.52	13.45		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	13.43	13.69	13.70	13.67	14.7	0
10	QPSK	1	25	13.46	13.25	13.31	13.62		
10	QPSK	1	49	13.62	13.64	13.46	13.69		
10	QPSK	25	0	13.54	13.47	13.75	13.55	14.7	0
10	QPSK	25	12	13.69	13.36	13.60	13.68		
10	QPSK	25	25	13.73	13.64	13.55	13.49		
10	QPSK	50	0	13.66	13.62	13.58	13.59		
10	16QAM	1	0	13.62	13.61	13.62	13.42	14.7	0
10	16QAM	1	25	13.75	13.44	13.52	13.46		
10	16QAM	1	49	13.83	13.65	13.65	13.44		
10	16QAM	25	0	13.62	13.64	13.54	13.74	14.7	0
10	16QAM	25	12	13.65	13.66	13.54	13.70		
10	16QAM	25	25	13.68	13.69	13.61	13.69		
10	16QAM	50	0	13.73	13.51	13.41	13.46		
10	64QAM	1	0	13.48	13.45	13.46	13.34	14.7	0
10	64QAM	1	25	13.44	13.40	13.49	13.59		
10	64QAM	1	49	13.53	13.48	13.43	13.61		
10	64QAM	25	0	13.67	13.76	13.51	13.66	14.7	0
10	64QAM	25	12	13.73	13.61	13.69	13.50		
10	64QAM	25	25	13.34	13.47	13.52	13.34		
10	64QAM	50	0	13.42	13.68	13.36	13.66		
10	256QAM	1	0	13.72	13.58	13.59	13.61	14.7	0
10	256QAM	1	25	13.32	13.35	13.30	13.24		
10	256QAM	1	49	13.38	13.38	13.42	13.49		
10	256QAM	25	0	13.42	13.63	13.54	13.40	14.7	0
10	256QAM	25	12	13.69	13.55	13.51	13.41		
10	256QAM	25	25	13.43	13.46	13.53	13.57		
10	256QAM	50	0	13.46	13.55	13.63	13.55		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	13.58	13.63	13.69	13.77	14.7	0
5	QPSK	1	12	13.44	13.39	13.40	13.55		
5	QPSK	1	24	13.64	13.41	13.62	13.42		
5	QPSK	12	0	13.42	13.67	13.63	13.46	14.7	0
5	QPSK	12	7	13.58	13.50	13.52	13.74		
5	QPSK	12	13	13.82	13.63	13.54	13.44		
5	QPSK	25	0	13.51	13.51	13.57	13.47		
5	16QAM	1	0	13.72	13.56	13.48	13.39	14.7	0
5	16QAM	1	12	13.64	13.59	13.58	13.55		
5	16QAM	1	24	13.68	13.58	13.57	13.48		
5	16QAM	12	0	13.54	13.39	13.54	13.52	14.7	0
5	16QAM	12	7	13.70	13.71	13.61	13.74		
5	16QAM	12	13	13.70	13.76	13.61	13.75		
5	16QAM	25	0	13.76	13.63	13.47	13.72		
5	64QAM	1	0	13.37	13.54	13.41	13.40	14.7	0
5	64QAM	1	12	13.62	13.34	13.67	13.60		
5	64QAM	1	24	13.59	13.66	13.52	13.31		
5	64QAM	12	0	13.72	13.73	13.46	13.63	14.7	0
5	64QAM	12	7	13.75	13.44	13.51	13.67		
5	64QAM	12	13	13.50	13.37	13.59	13.50		
5	64QAM	25	0	13.35	13.69	13.58	13.56		
5	256QAM	1	0	13.70	13.45	13.57	13.67	14.7	0
5	256QAM	1	12	13.30	13.51	13.46	13.39		
5	256QAM	1	24	13.33	13.42	13.35	13.73		
5	256QAM	12	0	13.36	13.53	13.50	13.65	14.7	0
5	256QAM	12	7	13.66	13.71	13.60	13.68		
5	256QAM	12	13	13.39	13.53	13.62	13.63		
5	256QAM	25	0	13.65	13.53	13.47	13.65		

Full Power for LAT

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.52	31.53	31.61	32.80	22.52	22.53	22.61	23.80
GPRS 1 Tx slot	31.50	31.50	31.59	32.80	22.50	22.50	22.59	23.80
GPRS 2 Tx slots	29.69	29.78	29.80	31.30	23.69	23.78	23.80	25.30
GPRS 3 Tx slots	28.07	28.15	28.19	29.80	23.81	23.89	23.93	25.54
GPRS 4 Tx slots	27.10	27.13	27.17	28.50	24.10	24.13	24.17	25.50
EDGE 1 Tx slot	25.38	25.48	25.49	26.80	16.38	16.48	16.49	17.80
EDGE 2 Tx slots	23.85	23.84	23.98	24.80	17.85	17.84	17.98	18.80
EDGE 3 Tx slots	22.84	22.85	23.00	23.80	18.58	18.59	18.74	19.54
EDGE 4 Tx slots	22.19	22.03	22.40	23.20	19.19	19.03	19.40	20.20

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.96	29.00	29.02	30.30	19.96	20.00	20.02	21.30
GPRS 1 Tx slot	28.94	28.98	29.00	30.30	19.94	19.98	20.00	21.30
GPRS 2 Tx slots	26.28	26.35	26.28	27.80	20.28	20.35	20.28	21.80
GPRS 3 Tx slots	25.14	25.22	25.28	26.50	20.88	20.96	21.02	22.24
GPRS 4 Tx slots	23.81	23.86	23.78	25.00	20.81	20.86	20.78	22.00
EDGE 1 Tx slot	24.63	24.52	24.71	25.80	15.63	15.52	15.71	16.80
EDGE 2 Tx slots	23.49	23.55	23.59	24.70	17.49	17.55	17.59	18.70
EDGE 3 Tx slots	22.47	22.34	22.56	23.60	18.21	18.08	18.30	19.34
EDGE 4 Tx slots	21.37	21.08	21.27	22.60	18.37	18.08	18.27	19.60

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.60	23.65	23.62	24.80	23.58	23.67	23.70	24.80	23.50	23.59	23.57	24.80
3GPP Rel 99	RMC 12.2Kbps	23.62	23.67	23.65	24.80	23.61	23.70	23.73	24.80	23.52	23.60	23.59	24.80
3GPP Rel 6	HSDPA Subtest-1	22.63	22.73	22.68	23.80	22.62	22.68	22.70	23.80	22.58	22.63	22.68	23.80
3GPP Rel 6	HSDPA Subtest-2	22.37	22.73	22.65	23.80	22.62	22.70	22.70	23.80	22.54	22.61	22.67	23.80
3GPP Rel 6	HSDPA Subtest-3	22.15	22.20	22.15	23.30	22.13	22.17	22.19	23.30	22.09	22.14	22.14	23.30
3GPP Rel 6	HSDPA Subtest-4	22.15	22.24	22.21	23.30	22.13	22.23	22.24	23.30	22.03	22.14	21.82	23.30
3GPP Rel 8	DC-HSDPA Subtest-1	22.48	22.53	22.44	23.80	22.43	22.45	22.54	23.80	22.36	22.40	22.52	23.80
3GPP Rel 8	DC-HSDPA Subtest-2	22.16	22.49	22.48	23.80	22.42	22.51	22.56	23.80	22.36	22.39	22.51	23.80
3GPP Rel 8	DC-HSDPA Subtest-3	21.93	22.04	21.96	23.30	21.94	21.99	22.02	23.30	21.86	21.91	21.98	23.30
3GPP Rel 8	DC-HSDPA Subtest-4	21.97	22.09	22.07	23.30	21.94	22.09	22.07	23.30	21.79	22.00	21.62	23.30
3GPP Rel 6	HSUPA Subtest-1	22.63	22.71	22.70	23.80	22.61	22.71	22.69	23.80	22.57	22.64	22.61	23.80
3GPP Rel 6	HSUPA Subtest-2	21.66	21.74	21.68	22.80	21.63	21.75	21.71	21.80	20.52	20.62	20.66	21.80
3GPP Rel 6	HSUPA Subtest-3	19.86	19.91	19.91	21.80	20.59	20.69	20.69	21.80	21.54	21.61	21.68	22.80
3GPP Rel 6	HSUPA Subtest-4	20.44	20.52	20.48	21.80	21.24	21.30	21.28	21.80	20.58	20.61	20.65	21.80
3GPP Rel 6	HSUPA Subtest-5	22.66	22.70	22.60	23.80	22.60	22.70	22.70	23.80	22.60	22.60	22.70	23.80
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.87	20.96	20.91	22.30	21.19	21.22	21.13	22.30	20.28	20.29	20.41	21.30

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	23.43	23.60	23.15	24.80	23.49	23.65	23.55	24.80	23.44	23.46	23.39	24.80
RC3 SO55	23.42	23.59	23.14	24.80	23.48	23.63	23.54	24.80	23.41	23.44	23.37	24.80
RC3 SO32 (F-SCH)	23.41	23.53	23.13	24.80	23.46	23.61	23.52	24.80	23.40	23.41	23.34	24.80
RC3 SO32 (+SCH)	23.33	23.43	23.12	24.80	23.40	23.50	23.44	24.80	23.33	23.37	23.31	24.80
RTAP 153.6Kbps	23.43	23.57	23.11	24.80	23.51	23.57	23.53	24.80	23.39	23.42	23.37	24.80
RETAP 4GKBits	23.43	23.56	23.10	24.80	23.49	23.56	23.51	24.80	23.37	23.41	23.35	24.80

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				18700	18900	19100		
Frequency (MHz)				1880	1880	1900		
20	QPSK	1	0	22.39	22.41	22.40	23.8	0
20	QPSK	1	49	22.25	22.38	22.34		
20	QPSK	1	99	22.21	22.34	22.32		
20	QPSK	50	0	21.44	21.46	21.43	22.8	1
20	QPSK	50	24	21.43	21.43	21.42		
20	QPSK	50	50	21.39	21.44	21.41		
20	QPSK	100	0	21.43	21.45	21.44		
20	16QAM	1	0	21.77	21.78	21.79	22.8	1
20	16QAM	1	49	21.65	21.74	21.72		
20	16QAM	1	99	21.58	21.67	21.66		
20	16QAM	50	0	20.41	20.47	20.43	21.8	2
20	16QAM	50	24	20.49	20.48	20.38		
20	16QAM	50	50	20.45	20.53	20.47		
20	16QAM	100	0	20.46	20.46	20.35		
20	64QAM	1	0	20.73	20.59	20.54	21.8	2
20	64QAM	1	49	20.59	20.58	20.52		
20	64QAM	1	99	20.53	20.50	20.50		
20	64QAM	50	0	19.51	19.51	19.43	20.8	3
20	64QAM	50	24	19.52	19.52	19.44		
20	64QAM	50	50	19.48	19.55	19.48		
20	64QAM	100	0	19.46	19.49	19.43		
20	256QAM	1	0	17.86	17.98	17.90	19.3	4.5
20	256QAM	1	49	17.73	17.93	17.84		
20	256QAM	1	99	17.81	17.89	17.88		
20	256QAM	50	0	17.52	17.52	17.48	19.3	4.5
20	256QAM	50	24	17.55	17.63	17.58		
20	256QAM	50	50	17.58	17.56	17.57		
20	256QAM	100	0	17.54	17.57	17.53		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	22.34	22.38	22.37	23.8	0
15	QPSK	1	37	22.29	22.35	22.30		
15	QPSK	1	74	22.29	22.37	22.34		
15	QPSK	36	0	21.43	21.44	21.40	22.8	1
15	QPSK	36	20	21.45	21.44	21.44		
15	QPSK	36	39	21.41	21.52	21.51		
15	QPSK	75	0	21.45	21.46	21.42		
15	QPSK	75	37	21.65	21.70	21.68		
15	16QAM	1	37	21.64	21.70	21.69	22.8	1
15	16QAM	1	74	21.55	21.65	21.61		
15	16QAM	36	0	20.48	20.44	20.40	21.8	2
15	16QAM	36	20	20.46	20.44	20.44		
15	16QAM	36	39	20.44	20.53	20.48		
15	16QAM	75	0	20.45	20.45	20.41		
15	64QAM	1	0	20.53	20.58	20.56	21.8	2
15	64QAM	1	37	20.53	20.59	20.61		
15	64QAM	1	74	20.49	20.59	20.55		
15	64QAM	36	0	19.51	19.50	19.45	20.8	3
15	64QAM	36	20	19.49	19.51	19.48		
15	64QAM	36	39	19.46	19.57	19.54		
15	64QAM	75	0	19.47	19.45	19.44		
15	256QAM	1	0	17.84	17.88	17.81	19.3	4.5
15	256QAM	1	37	17.80	17.97	17.94		
15	256QAM	1	74	17.77	17.83	17.91		
15	256QAM	36	0	17.54	17.50	17.58	19.3	4.5
15	256QAM	36	20	17.64	17.69	17.60		
15	256QAM	36	39	17.52	17.47	17.63		
15	256QAM	75	0	17.52	17.55	17.57		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	22.30	22.23	22.28	23.8	0
10	QPSK	1	25	22.32	22.26	22.23		
10	QPSK	1	49	22.28	22.23	22.22		
10	QPSK	25	0	21.33	21.35	21.29	22.8	1
10	QPSK	25	12	21.52	21.36	21.39		
10	QPSK	25	25	21.32	21.44	21.40		
10	QPSK	50	0	21.36	21.32	21.38		
10	16QAM	1	0	21.67	21.57	21.63	22.8	1
10	16QAM	1	25	21.60	21.65	21.61		
10	16QAM	1	49	21.61	21.60	21.60		
10	16QAM	25	0	20.38	20.30	20.27	21.8	2
10	16QAM	25	12	20.40	20.36	20.40		
10	16QAM	25	25	20.37	20.43	20.35		
10	16QAM	50	0	20.42	20.36	20.38		
10	64QAM	1	0	21.12	21.19	21.09	21.8	2
10	64QAM	1	25	21.12	21.20	21.16		
10	64QAM	1	49	21.05	21.13	21.12		
10	64QAM	25	0	20.03	20.00	19.88	20.8	3
10	64QAM	25	12	20.04	20.01	20.04		
10	64QAM	25	25	20.01	20.06	20.01		
10	64QAM	50	0	20.03	19.95	20.01		
10	256QAM	1	0	17.91	17.94	17.88	19.3	4.5
10	256QAM	1	25	17.69	17.83	17.83		
10	256QAM	1	49	17.75	17.83	17.97		
10	256QAM	25	0	17.56	17.43	17.33	19.3	4.5
10	256QAM	25	12	17.51	17.61	17.58		
10	256QAM	25	25	17.58	17.50	17.50		
10	256QAM	50	0	17.63	17.56	17.46		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	22.32	22.22	22.19	23.8	0
5	QPSK	1	12	22.35	22.34	22.33		
5	QPSK	1	24	22.32	22.33	22.28		
5	QPSK	12	0	21.45	21.40	21.28	22.8	1
5	QPSK	12	7	21.43	21.47	21.31		
5	QPSK	12	13	21.45	21.44	21.38		
5	QPSK	25	0	21.44	21.40	21.27		
5	16QAM	1	0	21.63	21.56	21.53	22.8	1
5	16QAM	1	12	21.63	21.66	21.58		
5	16QAM	1	24	21.62	21.69	21.58		
5	16QAM	12	0	20.45	20.38	20.28	21.8	2
5	16QAM	12	7	20.45	20.47	20.33		
5	16QAM	12	13	20.45	20.46	20.34		
5	16QAM	25	0	20.41	20.36	20.30		
5	64QAM	1	0	21.23	21.08	21.11	21.8	2
5	64QAM	1	12	21.16	21.15	21.11		
5	64QAM	1	24	21.21	21.19	21.18		
5	64QAM	12	0	20.09	20.01	19.93	20.8	3
5	64QAM	12	7	20.11	20.09	19.97		
5	64QAM	12	13	20.06	20.11	19.98		
5	64QAM	25	0	20.04	20.00	19.89		
5	256QAM	1	0	17.87	17.97	17.96	19.3	4.5
5	256QAM	1	12	17.79	17.94	17.88		
5	256QAM	1	24	17.72	17.89	17.79		
5	256QAM	12	0	17.42	17.41	17.41	19.3	4.5
5	256QAM	12	7	17.59	17.70	17.62		
5	256QAM	12	13	17.66	17.46	17.64		
5	256QAM	25	0	17.53	17.54	17.46		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	22.28	22.22	22.24	23.8	0
3	QPSK	1	8	22.35	22.36	22.33		
3	QPSK	1	14	22.33	22.30	22.27		
3	QPSK	8	0	21.40	21.32	21.30	22.8	1
3	QPSK	8	4	21.39	21.44	21.36		
3	QPSK	8	7	21.42	21.38	21.36		
3	QPSK	15	0	21.43	21.33	21.32		
3	16QAM	1	0	21.58	21.55	21.55	22.8	1
3	16QAM	1	8	21.72	21.72	21.67		
3	16QAM	1	14	21.68	21.62	21.60		
3	16QAM	8	0	20.48	20.37	20.36	21.8	2
3	16QAM	8	4	20.25	20.50	20.39		
3	16QAM	8	7	20.48	20.49	20.39		
3	16QAM	15	0	20.43	20.35	20.33		
3	64QAM	1	0	21.13	21.08	21.11	21.8	2
3	64QAM	1	8	21.01	21.26	21.17		
3	64QAM	1	14	21.17	21.18	21.13		
3	64QAM	8	0	20.07	19.99	19.95	20.8	3
3	64QAM	8	4	20.06	20.07	20.01		
3	64QAM	8	7	20.09	20.07	20.01		
3	64QAM	15	0	19.80	19.94	19.93		
3	256QAM	1	0	17.84	18.01	17.95	19.3	4.5
3	256QAM	1	8	17.77	18.02	17.86		
3	256QAM	1	14	17.81	17.87	17.83		
3	256QAM	8	0	17.46	17.48	17.49	19.3	4.5
3	256QAM	8	4	17.54	17.66	17.65		
3	256QAM	8	7	17.67	17.47	17.48		
3	256QAM	15	0	17.54	17.47	17.52		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	22.24	22.23	22.11	23.8	0
1.4	QPSK	1	3	22.30	22.30	22.20		
1.4	QPSK	1	5	22.23	22.23	22.15		
1.4	QPSK	3	0	22.27	22.20	22.15		
1.4	QPSK	3	1	22.31	22.23	22.19		
1.4	QPSK	3	3	22.30	22.22	22.13		
1.4	QPSK	6	0	21.38	21.30	21.17	22.8	1
1.4	16QAM	1	0	21.58	21.55	21.41	22.8	1
1.4	16QAM	1	3	21.64	21.62	21.52		
1.4	16QAM	1	5	21.56	21.52	21.46		
1.4	16QAM	3	0	21.36	21.27	21.22		
1.4	16QAM	3	1	21.41	21.30	21.26		
1.4	16QAM	3	3	21.36	21.28	21.20		
1.4	16QAM	6	0	20.46	20.33	20.26	21.8	2
1.4	64QAM	1	0	21.03	20.94	20.83	21.8	2
1.4	64QAM	1	3	21.11	20.99	20.90		
1.4	64QAM	1	5	21.03	20.93	20.84		
1.4	64QAM	3	0	20.99	20.90	20.81		
1.4	64QAM	3	1	21.01	20.93	20.91		
1.4	64QAM	3	3	20.95	20.88	20.85		
1.4	64QAM	6	0	19.90	19.80	19.83	20.8	3
1.4	256QAM	1	0	17.89	18.02	17.89	19.3	4.5
1.4	256QAM	1	3	17.80	18.02	17.77		
1.4	256QAM	1	5	17.90	17.82	17.82		
1.4	256QAM	3	0	17.43	17.41	17.49		
1.4	256QAM	3	1	17.45	17.62	17.54		
1.4	256QAM	3	3	17.59	17.61	17.65		
1.4	256QAM	6	0	17.60	17.56	17.44	19.3	4.5

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				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	22.37	22.52	22.42	23.8	0
20	QPSK	1	49	22.17	22.33	22.28		
20	QPSK	1	99	22.14	22.31	22.28		
20	QPSK	50	0	21.40	21.54	21.49	22.8	1
20	QPSK	50	24	21.38	21.47	21.48		
20	QPSK	50	50	21.35	21.46	21.40		
20	QPSK	100	0	21.41	21.46	21.42		
20	16QAM	1	0	21.74	21.71	21.87	22.8	1
20	16QAM	1	49	21.55	21.63	21.66		
20	16QAM	1	99	21.53	21.69	21.73		
20	16QAM	50	0	20.42	20.50	20.54	21.8	2
20	16QAM	50	24	20.43	20.51	20.48		
20	16QAM	50	50	20.34	20.42	20.47		
20	16QAM	100	0	20.38	20.49	20.44		
20	64QAM	1	0	20.54	20.62	20.69	21.8	2
20	64QAM	1	49	20.42	20.52	20.52		
20	64QAM	1	99	20.42	20.58	20.52		
20	64QAM	50	0	19.42	19.51	19.56	20.8	3
20	64QAM	50	24	19.44	19.53	19.47		
20	64QAM	50	50	19.38	19.42	19.50		
20	64QAM	100	0	19.43	19.52	19.47		
20	256QAM	1	0	17.85	17.92	17.66	19.3	4.5
20	256QAM	1	49	17.73	17.73	17.62		
20	256QAM	1	99	17.69	17.71	17.61		
20	256QAM	50	0	17.85	17.85	17.80	19.3	4.5
20	256QAM	50	24	17.87	17.84	17.70		
20	256QAM	50	50	17.83	17.79	17.74		
20	256QAM	100	0	17.86	17.77	17.71		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	22.32	22.44	22.48	23.8	0
15	QPSK	1	37	22.16	22.28	22.32		
15	QPSK	1	74	22.20	22.27	22.32		
15	QPSK	36	0	21.37	21.45	21.49	22.8	1
15	QPSK	36	20	21.38	21.46	21.52		
15	QPSK	36	39	21.31	21.39	21.45		
15	QPSK	75	0	21.37	21.46	21.51		
15	QPSK	75	37	21.68	21.70	21.86		
15	16QAM	1	37	21.47	21.60	21.62	22.8	1
15	16QAM	1	74	21.44	21.61	21.67		
15	16QAM	36	0	20.35	20.45	20.51	21.8	2
15	16QAM	36	20	20.37	20.44	20.52		
15	16QAM	36	39	20.29	20.42	20.45		
15	16QAM	75	0	20.36	20.44	20.51		
15	64QAM	1	0	20.45	20.61	20.68	21.8	2
15	64QAM	1	37	20.37	20.53	20.58		
15	64QAM	1	74	20.36	20.56	20.52		
15	64QAM	36	0	19.39	19.51	19.55	20.8	3
15	64QAM	36	20	19.40	19.49	19.53		
15	64QAM	36	39	19.36	19.47	19.40		
15	64QAM	75	0	19.38	19.49	19.54		
15	256QAM	1	0	17.81	17.86	17.56	19.3	4.5
15	256QAM	1	37	17.63	17.76	17.64		
15	256QAM	1	74	17.74	17.64	17.52		
15	256QAM	36	0	17.88	17.81	17.76	19.3	4.5
15	256QAM	36	20	17.92	17.87	17.69		
15	256QAM	36	39	17.85	17.77	17.84		
15	256QAM	75	0	17.87	17.72	17.78		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	22.19	22.24	22.36	23.8	0
10	QPSK	1	25	22.20	22.30	22.37		
10	QPSK	1	49	22.16	22.27	22.37		
10	QPSK	25	0	21.28	21.38	21.43	22.8	1
10	QPSK	25	12	21.42	21.50	21.51		
10	QPSK	25	25	21.41	21.48	21.50		
10	QPSK	50	0	21.40	21.49	21.51		
10	16QAM	1	0	21.60	21.72	21.76	22.8	1
10	16QAM	1	25	21.61	21.67	21.70		
10	16QAM	1	49	21.59	21.71	21.74		
10	16QAM	25	0	20.28	20.36	20.42	21.8	2
10	16QAM	25	12	20.39	20.48	20.55		
10	16QAM	25	25	20.40	20.50	20.51		
10	16QAM	50	0	20.36	20.49	20.52		
10	64QAM	1	0	20.43	20.53	20.58	21.8	2
10	64QAM	1	25	20.53	20.60	20.67		
10	64QAM	1	49	20.49	20.54	20.62		
10	64QAM	25	0	19.33	19.42	19.42	20.8	3
10	64QAM	25	12	19.46	19.54	19.58		
10	64QAM	25	25	19.43	19.54	19.53		
10	64QAM	50	0	19.43	19.53	19.55		
10	256QAM	1	0	17.83	17.82	17.70	19.3	4.5
10	256QAM	1	25	17.70	17.80	17.55		
10	256QAM	1	49	17.70	17.73	17.68		
10	256QAM	25	0	17.78	17.84	17.84	19.3	4.5
10	256QAM	25	12	17.95	17.75	17.60		
10	256QAM	25	25	17.73	17.85	17.78		
10	256QAM	50	0	17.90	17.78	17.69		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	22.16	22.33	22.31	23.8	0
5	QPSK	1	12	22.24	22.39	22.38		
5	QPSK	1	24	22.27	22.39	22.38		
5	QPSK	12	0	21.29	21.41	21.40	22.8	1
5	QPSK	12	7	21.41	21.54	21.51		
5	QPSK	12	13	21.38	21.48	21.53		
5	QPSK	25	0	21.39	21.47	21.45		
5	16QAM	1	0	21.50	21.62	21.62	22.8	1
5	16QAM	1	12	21.66	21.68	21.65		
5	16QAM	1	24	21.67	21.68	21.75		
5	16QAM	12	0	20.38	20.44	20.44	21.8	2
5	16QAM	12	7	20.47	20.52	20.56		
5	16QAM	12	13	20.45	20.50	20.55		
5	16QAM	25	0	20.43	20.48	20.51		
5	64QAM	1	0	20.52	20.61	20.59	21.8	2
5	64QAM	1	12	20.57	20.61	20.60		
5	64QAM	1	24	20.64	20.64	20.64		
5	64QAM	12	0	19.39	19.47	19.49	20.8	3
5	64QAM	12	7	19.51	19.58	19.56		
5	64QAM	12	13	19.50	19.54	19.53		
5	64QAM	25	0	19.43	19.48	19.49		
5	256QAM	1	0	17.84	17.95	17.56	19.3	4.5
5	256QAM	1	12	17.80	17.78	17.69		
5	256QAM	1	24	17.72	17.67	17.51		
5	256QAM	12	0	17.91	17.77	17.80	19.3	4.5
5	256QAM	12	7	17.80	17.85	17.60		
5	256QAM	12	13	17.75	17.79	17.66		
5	256QAM	25	0	17.79	17.79	17.69		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	22.17	22.33	22.30	23.8	0
3	QPSK	1	8	22.33	22.43	22.41		
3	QPSK	1	14	22.28	22.36	22.38		
3	QPSK	8	0	21.34	21.43	21.39	22.8	1
3	QPSK	8	4	21.42	21.52	21.53		
3	QPSK	8	7	21.35	21.49	21.43		
3	QPSK	15	0	21.41	21.46	21.40		
3	16QAM	1	0	21.53	21.70	21.62	22.8	1
3	16QAM	1	8	21.70	21.80	21.78		
3	16QAM	1	14	21.61	21.72	21.68		
3	16QAM	8	0	20.43	20.50	20.49	21.8	2
3	16QAM	8	4	20.50	20.55	20.58		
3	16QAM	8	7	20.44	20.53	20.55		
3	16QAM	15	0	20.42	20.52	20.46		
3	64QAM	1	0	20.40	20.58	20.52	21.8	2
3	64QAM	1	8	20.61	20.68	20.69		
3	64QAM	1	14	20.58	20.61	20.63		
3	64QAM	8	0	19.44	19.49	19.48	20.8	3
3	64QAM	8	4	19.48	19.57	19.58		
3	64QAM	8	7	19.42	19.55	19.51		
3	64QAM	15	0	19.42	19.52	19.44		
3	256QAM	1	0	17.84	17.87	17.68	19.3	4.5
3	256QAM	1	8	17.76	17.79	17.54		
3	256QAM	1	14	17.62	17.65	17.53		
3	256QAM	8	0	17.89	17.85	17.83	19.3	4.5
3	256QAM	8	4	17.96	17.88	17.73		
3	256QAM	8	7	17.78	17.88	17.74		
3	256QAM	15	0	17.76	17.77	17.64		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	22.17	22.27	22.24	23.8	0
1.4	QPSK	1	3	22.22	22.36	22.33		
1.4	QPSK	1	5	22.17	22.29	22.28		
1.4	QPSK	3	0	22.19	22.31	22.27		
1.4	QPSK	3	1	22.25	22.35	22.31		
1.4	QPSK	3	3	22.17	22.32	22.30		
1.4	QPSK	6	0	21.33	21.43	21.33	22.8	1
1.4	16QAM	1	0	21.48	21.59	21.58	22.8	1
1.4	16QAM	1	3	21.54	21.69	21.71		
1.4	16QAM	1	5	21.47	21.58	21.67		
1.4	16QAM	3	0	21.26	21.41	21.35		
1.4	16QAM	3	1	21.37	21.45	21.41		
1.4	16QAM	3	3	21.29	21.39	21.42		
1.4	16QAM	6	0	20.35	20.48	20.42	21.8	2
1.4	64QAM	1	0	20.91	21.05	20.97	21.8	2
1.4	64QAM	1	3	21.00	21.13	21.12		
1.4	64QAM	1	5	20.94	21.02	21.02		
1.4	64QAM	3	0	20.88	21.00	20.94		
1.4	64QAM	3	1	20.93	21.04	21.00		
1.4	64QAM	3	3	20.86	20.99	20.99		
1.4	64QAM	6	0	19.80	19.94	19.86	20.8	3
1.4	256QAM	1	0	17.83	17.96	17.76	19.3	4.5
1.4	256QAM	1	3	17.79	17.75	17.68		
1.4	256QAM	1	5	17.79	17.62	17.60		
1.4	256QAM	3	0	17.84	17.91	17.85		
1.4	256QAM	3	1	17.86	17.82	17.75		
1.4	256QAM	3	3	17.77	17.88	17.77		
1.4	256QAM	6	0	17.85	17.86	17.64	19.3	4.5

Band 5 (Celluar Band) Part 22H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.36	22.33	22.27	23.8	0
10	QPSK	1	25	22.34	22.29	22.22		
10	QPSK	1	49	22.33	22.32	22.14		
10	QPSK	25	0	21.44	21.41	21.30	22.8	1
10	QPSK	25	12	21.51	21.49	21.32		
10	QPSK	25	25	21.50	21.42	21.31		
10	QPSK	50	0	21.52	21.48	21.28		
10	16QAM	1	0	21.74	21.73

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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.21	22.42	22.43	23.8	0
20	QPSK	1	49	22.30	22.47	22.51		
20	QPSK	1	99	22.33	22.53	22.61		
20	QPSK	50	0	21.33	21.49	21.55	22.8	1
20	QPSK	50	24	21.42	21.52	21.67		
20	QPSK	50	50	21.39	21.50	21.65		
20	QPSK	100	0	21.41	21.52	21.61		
20	16QAM	1	0	21.58	21.77	21.77	22.8	1
20	16QAM	1	49	21.66	21.81	21.87		
20	16QAM	1	99	21.67	21.90	22.00		
20	16QAM	50	0	20.33	20.49	20.57	21.8	2
20	16QAM	50	24	20.46	20.55	20.70		
20	16QAM	50	50	20.46	20.63	20.72		
20	16QAM	100	0	20.44	20.49	20.59		
20	64QAM	1	0	20.42	20.59	20.67	21.8	2
20	64QAM	1	49	20.48	20.64	20.76		
20	64QAM	1	99	20.59	20.79	20.89		
20	64QAM	50	0	19.37	19.52	19.59	20.8	3
20	64QAM	50	24	19.47	19.55	19.73		
20	64QAM	50	50	19.46	19.64	19.73		
20	64QAM	100	0	19.44	19.52	19.61		
20	256QAM	1	0	17.78	17.85	17.75	19.3	4.5
20	256QAM	1	49	17.77	17.79	17.64		
20	256QAM	1	99	17.74	17.76	17.63		
20	256QAM	50	0	17.63	17.70	17.52	19.3	4.5
20	256QAM	50	24	17.68	17.66	17.54		
20	256QAM	50	50	17.64	17.68	17.53		
20	256QAM	100	0	17.71	17.65	17.60		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.25	22.40	22.51	23.8	0
15	QPSK	1	37	22.30	22.46	22.55		
15	QPSK	1	74	22.36	22.54	22.51		
15	QPSK	36	0	21.31	21.48	21.56	22.8	1
15	QPSK	36	20	21.42	21.51	21.68		
15	QPSK	36	39	21.40	21.60	21.70		
15	QPSK	75	0	21.42	21.50	21.66		
15	16QAM	1	0	21.52	21.76	21.79	22.8	1
15	16QAM	1	37	21.64	21.78	21.87		
15	16QAM	1	74	21.68	21.86	21.93		
15	16QAM	36	0	20.30	20.48	20.58	21.8	2
15	16QAM	36	20	20.41	20.53	20.66		
15	16QAM	36	39	20.42	20.61	20.76		
15	16QAM	75	0	20.39	20.53	20.68		
15	64QAM	1	0	20.43	20.63	20.65	21.8	2
15	64QAM	1	37	20.57	20.70	20.79		
15	64QAM	1	74	20.63	20.79	20.84		
15	64QAM	36	0	19.34	19.53	19.62	20.8	3
15	64QAM	36	20	19.46	19.57	19.74		
15	64QAM	36	39	19.45	19.64	19.74		
15	64QAM	75	0	19.43	19.51	19.68		
15	256QAM	1	0	17.78	17.85	17.75	19.3	4.5
15	256QAM	1	37	17.77	17.79	17.64		
15	256QAM	1	74	17.74	17.76	17.63		
15	256QAM	36	0	17.63	17.70	17.52	19.3	4.5
15	256QAM	36	20	17.68	17.66	17.54		
15	256QAM	36	39	17.64	17.68	17.53		
15	256QAM	75	0	17.71	17.65	17.60		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.15	22.31	22.40	23.8	0
10	QPSK	1	25	22.15	22.35	22.50		
10	QPSK	1	49	22.20	22.36	22.49		
10	QPSK	25	0	21.32	21.44	21.56	22.8	1
10	QPSK	25	12	21.38	21.48	21.59		
10	QPSK	25	25	21.35	21.57	21.66		
10	QPSK	50	0	21.34	21.46	21.56		
10	16QAM	1	0	21.52	21.73	21.85	22.8	1
10	16QAM	1	25	21.48	21.74	21.81		
10	16QAM	1	49	21.57	21.81	21.93		
10	16QAM	25	0	20.29	20.48	20.55	21.8	2
10	16QAM	25	12	20.34	20.50	20.59		
10	16QAM	25	25	20.33	20.55	20.65		
10	16QAM	50	0	20.33	20.45	20.57		
10	64QAM	1	0	20.36	20.54	20.68	21.8	2
10	64QAM	1	25	20.40	20.68	20.81		
10	64QAM	1	49	20.46	20.70	20.82		
10	64QAM	25	0	19.34	19.50	19.55	20.8	3
10	64QAM	25	12	19.41	19.54	19.63		
10	64QAM	25	25	19.37	19.58	19.69		
10	64QAM	50	0	19.38	19.52	19.58		
10	256QAM	1	0	17.78	17.85	17.75	19.3	4.5
10	256QAM	1	25	17.77	17.79	17.64		
10	256QAM	1	49	17.74	17.76	17.63		
10	256QAM	25	0	17.63	17.70	17.52	19.3	4.5
10	256QAM	25	12	17.68	17.66	17.54		
10	256QAM	25	25	17.64	17.68	17.53		
10	256QAM	50	0	17.71	17.65	17.60		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.12	22.34	22.50	23.8	0
5	QPSK	1	12	22.17	22.42	22.56		
5	QPSK	1	24	22.22	22.45	22.52		
5	QPSK	12	0	21.27	21.46	21.64	22.8	1
5	QPSK	12	7	21.29	21.49	21.65		
5	QPSK	12	13	21.29	21.54	21.63		
5	QPSK	25	0	21.30	21.50	21.61		
5	16QAM	1	0	21.46	21.67	21.88	22.8	1
5	16QAM	1	12	21.46	21.73	21.85		
5	16QAM	1	24	21.52	21.80	21.91		
5	16QAM	12	0	20.29	20.50	20.64	21.8	2
5	16QAM	12	7	20.29	20.49	20.70		
5	16QAM	12	13	20.30	20.58	20.65		
5	16QAM	25	0	20.32	20.48	20.63		
5	64QAM	1	0	20.41	20.60	20.78	21.8	2
5	64QAM	1	12	20.40	20.62	20.76		
5	64QAM	1	24	20.45	20.68	20.80		
5	64QAM	12	0	19.33	19.55	19.71	20.8	3
5	64QAM	12	7	19.37	19.53	19.69		
5	64QAM	12	13	19.39	19.60	19.70		
5	64QAM	25	0	19.33	19.48	19.66		
5	256QAM	1	0	17.78	17.85	17.75	19.3	4.5
5	256QAM	1	12	17.77	17.79	17.64		
5	256QAM	1	24	17.74	17.76	17.63		
5	256QAM	12	0	17.63	17.70	17.52	19.3	4.5
5	256QAM	12	7	17.68	17.66	17.54		
5	256QAM	12	13	17.64	17.68	17.53		
5	256QAM	25	0	17.71	17.65	17.60		

Band 12 (700MHz Low Band) Part 27F(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.48	22.52	22.53	23.8	0
10	QPSK	1	25	22.51	22.61	22.54		
10	QPSK	1	49	22.62	22.63	22.56		
10	QPSK	25	0	21.68	21.68	21.70	22.8	1
10	QPSK	25	12	21.69	21.73	21.69		
10	QPSK	25	25	21.72	21.75	21.71		
10	QPSK	50	0	21.73	21.74	21.70		
10	16QAM	1	0	21.84	21.92	21.95	22.8	1
10	16QAM	1	25	21.92	22.02	21.89		
10	16QAM	1	49	21.99	22.05	21.95		
10	16QAM	25	0	20.68	20.67	20.68	21.8	2
10	16QAM	25	12	20.78	20.81	20.69		
10	16QAM	25	25	20.76	20.76	20.71		
10	16QAM	50	0	20.76	20.70	20.68		
10	64QAM	1	0	20.71	20.77	20.89	21.8	2
10	64QAM	1	25	20.84	20.95	20.92		
10	64QAM	1	49	20.90	20.87	20.90		
10	64QAM	25	0	19.71	19.73	19.74	20.8	3
10	64QAM	25	12	19.80	19.81	19.75		
10	64QAM	25	25	19.77	19.77	19.77		
10	64QAM	50	0	19.78	19.71	19.71		
10	256QAM	1	0	17.98	18.02	18.07	19.3	4.5
10	256QAM	1	25	17.97	17.99	18.06		
10	256QAM	1	49	17.99	17.96	17.98		
10	256QAM	25	0	18.01	17.94	18.02	19.3	4.5
10	256QAM	25	12	17.89	17.99	17.96		
10	256QAM	25	25	17.92	17.95	17.95		
10	256QAM	50	0	17.83	17.93	17.92		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.53	22.59	22.54	23.8	0
5	QPSK	1	12	22.51	22.60	22.57		
5	QPSK	1	24	22.60	22.57	22.61		
5	QPSK	12	0	21.65	21.67	21.67	22.8	1
5	QPSK	12	7	21.73	21.79	21.70		
5	QPSK	12	13	21.67	21.71	21.67		
5	QPSK	25	0	21.68	21.74	21.62		
5	16QAM	1	0	21.91	22.00	21.90	22.8	1
5	16QAM	1	12	21.87	21.99	21.97		
5	16QAM	1	24	21.92	22.01	21.97		
5	16QAM	12	0	20.68	20.73	20.72	21.8	2
5	16QAM	12	7	20.72	20.76	20.73		
5	16QAM	12	13	20.72	20.76	20.67		
5	16QAM	25	0	20.72	20.75	20.67		
5	64QAM	1	0	20.82	20.88	20.84	21.8	2
5	64QAM	1	12	20.81	20.90	20.86		
5	64QAM	1	24	20.87	20.91	20.85		
5	64QAM	12	0	19.71	19.78	19.72	20.8	3
5	64QAM	12	7	19.77	19.80	19.77		
5	64QAM	12	13	19.74	19.80	19.73		
5	64QAM	25	0	19.70	19.78	19.65		
5	256QAM	1	0	17.88	17.95	18.15	19.3	4.5
5	256QAM	1	12	17.95	18.09	18.13		
5	256QAM	1	24	17.92	18.02	18.07		
5	256QAM	12	0	17.93	17.94	17.93	19.3	4.5
5	256QAM	12	7	17.96	17.91	18.05		
5	256QAM	12	13	17.82	17.96	17.96		
5	256QAM	25	0	17.78	18.00	17.98		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.57	22.48	22.59	23.8	0
3	QPSK	1	8	22.59	22.61	22.53		
3	QPSK	1	14	22.53	22.41	22.58		
3	QPSK	8	0	21.60	21.67	21.63	22.8	1
3	QPSK	8	4	21.66	21.75	21.68		
3	QPSK	8	7	21.67	21.69	21.65		
3	QPSK	15	0	21.68	21.72	21.64		
3	16QAM	1	0	21.84	21.89	21.90	22.8	1
3	16QAM	1	8	21.93	22.00	22.01		
3	16QAM	1	14	21.87	21.95	21.89		
3	16QAM	8	0	20.72	20.74	20.70	21.8	2
3	16QAM	8	4	20.80	20.84	20.73		
3	16QAM	8	7	20.71	20.77	20.71		
3	16QAM	15	0	20.73	20.74	20.71		
3	64QAM	1	0	20.81	20.95	20.85	21.8	2
3	64QAM	1	8	20.89	21.00	20.89		
3	64QAM	1	14	20.80	20.92	20.85		
3	64QAM	8	0	19.67	19.76	19.67	20.8	3
3	64QAM	8	4	19.74	19.81	19.74		
3	64QAM	8	7	19.73	19.77	19.68		
3	64QAM	15	0	19.69	19.78	19.67		
3	256QAM	1	0	17.93	17.96	18.04	19.3	4.5
3	256QAM	1	8	17.94	18.05	18.07		
3	256QAM	1	14	17.95	18.05	18.05		
3	256QAM	8	0	17.94	17.97	18.12	19.3	4.5
3	256QAM	8	4	17.97	18.09	18.06		
3	256QAM	8	7	17.86	17.95	17.88		
3	256QAM	15	0	17.80	17.98	17.99		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.43	22.51	22.51	23.8	0
1.4	QPSK	1	3	22.53	22.41	22.55		
1.4	QPSK	1	5	22.47	22.57	22.49		
1.4	QPSK	3	0	22.51	22.57	22.50		
1.4	QPSK	3	1	22.55	22.57	22.59		
1.4	QPSK	3	3	22.51	22.59	22.50		
1.4	QPSK	6	0	21.59	21.68	21.58	22.8	1
1.4	16QAM	1	0	21.80	21.83	21.84	22.8	1
1.4	16QAM	1	3	21.87	21.96	21.89		
1.4	16QAM	1	5	21.85	21.86	21.81		
1.4	16QAM	3	0	21.59	21.66	21.64		
1.4	16QAM	3	1	21.61	21.77	21.66		
1.4	16QAM	3	3	21.59	21.68	21.58		
1.4	16QAM	6	0	20.67	20.75	20.62	21.8	2
1.4	64QAM	1	0	20.96	21.08	21.05	21.8	2
1.4	64QAM	1	3	21.05	21.17	21.03		
1.4	64QAM	1	5	20.96	21.10	21.00		
1.4	64QAM	3	0	20.94	20.98	20.99		
1.4	64QAM	3	1	21.02	21.12	21.01		
1.4	64QAM	3	3	20.94	21.07	20.95		
1.4	64QAM	6	0	19.84	19.94	19.86	20.8	3
1.4	256QAM	1	0	17.89	18.08	18.11	19.3	4.5
1.4	256QAM	1	3	17.99	17.99	17.96		
1.4	256QAM	1	5	18.04	18.01	17.95		
1.4	256QAM	3	0	17.97	17.86	18.10		
1.4	256QAM	3	1	17.95	17.98	18.06		
1.4	256QAM	3	3	17.98	18.02	17.91		
1.4	256QAM	6	0	17.90	17.98	17.83	19.3	4.5

Band 13(700MHz Band) Part 27F

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					23230			
Frequency (MHz)					782			
10	QPSK	1	0		22.49		23.8	0
10	QPSK	1	25		22.58			
10	QPSK	1	49		22.53			
10	QPSK	25	0		21.62		22.8	1
10	QPSK	25	12		21.66			
10	QPSK	25	25		21.74			
10	QPSK	50	0		21.71			
10	16QAM	1	0		21.77		22.8	1
10	16QAM	1	25		21.92			
10	16QAM	1	49		21.96			
10	16QAM	25	0		20.73		21.8	2
10	16QAM	25	12		20.73			
10	16QAM	25	25		20.74			
10	16QAM	50	0		20.65			
10	64QAM	1	0		20.66		21.8	2
10	64QAM	1	25		20.88			
10	64QAM	1	49		20.81			
10	64QAM	25	0		19.68		20.8	3
10	64QAM	25	12		19.75			
10	64QAM	25	25		19.76			
10	64QAM	50	0		19.81			
10	256QAM	1	0		18.06		19.3	4.5
10	256QAM	1	25		18.02			
10	256QAM	1	49		18.05			
10	256QAM	25	0		18.06		19.3	4.5
10	256QAM	25	12		18.01			
10	256QAM	25	25		18.02			
10	256QAM	50	0		18.00			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	22.33	22.52	22.49	23.8	0
5	QPSK	1	12	22.51	22.52	22.50		
5	QPSK	1	24	22.52	22.54	22.48		
5	QPSK	12	0	21.66	21.66	21.71	22.8	1
5	QPSK	12	7	21.70	21.66	21.77		
5	QPSK	12	13	21.74	21.70	21.73		
5	QPSK	25	0	21.70	21.83	21.74		
5	16QAM	1	0	21.54	21.86	21.88	22.8	1
5	16QAM	1	12	21.92	21.90	21.87		
5	16QAM	1	24	21.92	21.95	21.93		
5	16QAM	12	0	20.76	20.73	20.72	21.8	2
5	16QAM	12	7	20.75	20.67	20.77		
5	16QAM	12	13	20.74	20.73	20.75		
5	16QAM	25	0	20.79	20.71	20.77		
5	64QAM	1	0	20.80	20.87	20.76	21.8	2
5	64QAM	1	12	20.89	20.86	20.78		
5	64QAM	1	24	20.82	20.86	20.86		
5	64QAM	12	0	19.72	19.75	19.74	20.8	3
5	64QAM	12	7	19.76	19.72	19.78		
5	64QAM	12	13	19.77	19.79	19.79		
5	64QAM	25	0	19.70	19.69	19.81		
5	256QAM	1	0	17.96	18.16	17.98	19.3	4.5
5	256QAM	1	12	18.12	17.99	17.94		
5	256QAM	1	24	17.98	18.01	18.05		
5	256QAM	12	0	18.14	17.96	18.07	19.3	4.5
5	256QAM	12	7	17.97	18.00	18.06		
5	256QAM	12	13	17.99	17.94	17.99		
5	256QAM	25	0	18.05	17.90	18.03		

Band 17 (700MHz Band)
Part 27H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	22.59	22.51	22.55		
10	QPSK	1	25	22.54	22.56	22.56	23.8	0
10	QPSK	1	49	22.60	22.57	22.57		
10	QPSK	25	0	21.61	21.62	21.60		
10	QPSK	25	12	21.71	21.67	21.64	22.8	1
10	QPSK	25	25	21.67	21.65	21.62		
10	QPSK	50	0	21.63	21.60	21.51		
10	16QAM	1	0	21.89	21.96	22.00		
10	16QAM	1	25	21.94	21.98	21.93	22.8	1
10	16QAM	1	49	21.99	21.98	21.95		
10	16QAM	25	0	20.61	20.63	20.61		
10	16QAM	25	12	20.66	20.77	20.66	21.8	2
10	16QAM	25	25	20.74	20.76	20.73		
10	16QAM	50	0	20.67	20.67	20.65		
10	64QAM	1	0	20.73	20.85	20.79		
10	64QAM	1	25	20.87	20.89	20.83	21.8	2
10	64QAM	1	49	20.89	20.91	20.88		
10	64QAM	25	0	19.66	19.64	19.66		
10	64QAM	25	12	19.73	19.77	19.70	20.8	3
10	64QAM	25	25	19.77	19.78	19.77		
10	64QAM	50	0	19.69	19.66	19.72		
10	256QAM	1	0	17.60	17.73	17.46		
10	256QAM	1	25	17.64	17.40	17.58	19.3	4.5
10	256QAM	1	49	17.45	17.62	17.57		
10	256QAM	25	0	17.63	17.77	17.71		
10	256QAM	25	12	17.67	17.63	17.64	19.3	4.5
10	256QAM	25	25	17.59	17.58	17.53		
10	256QAM	50	0	17.59	17.73	17.47		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				708.5	710	713.5		
5	QPSK	1	0	22.52	22.57	22.54		
5	QPSK	1	12	22.49	22.50	22.54	23.8	0
5	QPSK	1	24	22.43	22.54	22.51		
5	QPSK	12	0	21.63	21.65	21.61		
5	QPSK	12	7	21.74	21.71	21.67	22.8	1
5	QPSK	12	13	21.73	21.74	21.67		
5	QPSK	25	0	21.73	21.73	21.63		
5	16QAM	1	0	21.89	21.95	21.89		
5	16QAM	1	12	21.95	22.07	21.96	22.8	1
5	16QAM	1	24	22.02	22.07	21.97		
5	16QAM	12	0	20.70	20.67	20.66		
5	16QAM	12	7	20.77	20.76	20.65	21.8	2
5	16QAM	12	13	20.73	20.77	20.69		
5	16QAM	25	0	20.73	20.75	20.66		
5	64QAM	1	0	20.78	20.80	20.87		
5	64QAM	1	12	20.85	20.93	20.86	21.8	2
5	64QAM	1	24	20.90	20.95	20.87		
5	64QAM	12	0	19.73	19.72	19.69		
5	64QAM	12	7	19.81	19.80	19.73	20.8	3
5	64QAM	12	13	19.78	19.81	19.73		
5	64QAM	25	0	19.77	19.77	19.68		
5	256QAM	1	0	17.74	17.64	17.51		
5	256QAM	1	12	17.73	17.52	17.53	19.3	4.5
5	256QAM	1	24	17.64	17.74	17.59		
5	256QAM	12	0	17.57	17.66	17.55		
5	256QAM	12	7	17.63	17.68	17.55	19.3	4.5
5	256QAM	12	13	17.64	17.59	17.72		
5	256QAM	25	0	17.51	17.60	17.61		

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	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	22.42	22.47	22.41		
20	QPSK	1	49	22.30	22.43	22.34	23.8	0
20	QPSK	1	99	22.24	22.37	22.30		
20	QPSK	50	0	21.47	21.48	21.49		
20	QPSK	50	24	21.52	21.54	21.53	22.8	1
20	QPSK	50	50	21.44	21.49	21.52		
20	QPSK	100	0	21.47	21.50	21.47		
20	16QAM	1	0	21.80	21.81	21.80		
20	16QAM	1	49	21.67	21.73	21.73	22.8	1
20	16QAM	1	99	21.52	21.69	21.64		
20	16QAM	50	0	20.54	20.55	20.50		
20	16QAM	50	24	20.50	20.51	20.59	21.8	2
20	16QAM	50	50	20.46	20.55	20.54		
20	16QAM	100	0	20.48	20.52	20.58		
20	64QAM	1	0	20.75	20.61	20.62		
20	64QAM	1	49	20.59	20.61	20.60	21.8	2
20	64QAM	1	99	20.53	20.57	20.54		
20	64QAM	50	0	19.58	19.57	19.52		
20	64QAM	50	24	19.55	19.52	19.58	20.8	3
20	64QAM	50	50	19.48	19.58	19.55		
20	64QAM	100	0	19.53	19.54	19.57		
20	256QAM	1	0	17.79	17.79	17.61		
20	256QAM	1	49	17.68	17.65	17.45	19.3	4.5
20	256QAM	1	99	17.66	17.73	17.51		
20	256QAM	50	0	17.58	17.78	17.58		
20	256QAM	50	24	17.67	17.81	17.57	19.3	4.5
20	256QAM	50	50	17.69	17.83	17.57		
20	256QAM	100	0	17.72	17.85	17.50		
Channel				26115	26340	26613	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	22.45	22.46	22.43		
15	QPSK	1	37	22.37	22.43	22.34	23.8	0
15	QPSK	1	74	22.37	22.40	22.37		
15	QPSK	36	0	21.52	21.51	21.51		
15	QPSK	36	20	21.48	21.61	21.55	22.8	1
15	QPSK	36	39	21.41	21.53	21.47		
15	QPSK	75	0	21.47	21.53	21.56		
15	16QAM	1	0	21.72	21.79	21.79		
15	16QAM	1	37	21.65	21.77	21.72	22.8	1
15	16QAM	1	74	21.54	21.73	21.65		
15	16QAM	36	0	20.54	20.55	20.49		
15	16QAM	36	20	20.50	20.60	20.57	21.8	2
15	16QAM	36	39	20.41	20.52	20.52		
15	16QAM	75	0	20.52	20.53	20.55		
15	64QAM	1	0	20.69	20.67	20.61		
15	64QAM	1	37	20.61	20.72	20.60	21.8	2
15	64QAM	1	74	20.46	20.66	20.57		
15	64QAM	36	0	19.59	19.58	19.55		
15	64QAM	36	20	19.55	19.62	19.58	20.8	3
15	64QAM	36	39	19.51	19.55	19.53		
15	64QAM	75	0	19.53	19.49	19.57		
15	256QAM	1	0	17.89	17.72	17.51		
15	256QAM	1	37	17.78	17.59	17.53	19.3	4.5
15	256QAM	1	74	17.70	17.79	17.53		
15	256QAM	36	0	17.56	17.75	17.55		
15	256QAM	36	20	17.75	17.73	17.61	19.3	4.5
15	256QAM	36	39	17.64	17.77	17.53		
15	256QAM	75	0	17.72	17.89	17.51		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	22.37	22.32	22.31		
10	QPSK	1	25	22.33	22.34	22.30	23.8	0
10	QPSK	1	49	22.30	22.30	22.34		
10	QPSK	25	0	21.45	21.40	21.38		
10	QPSK	25	12	21.47	21.42	21.47	22.8	1
10	QPSK	25	25	21.43	21.49	21.47		
10	QPSK	50	0	21.44	21.40	21.45		
10	16QAM	1	0	21.76	21.60	21.73		
10	16QAM	1	25	21.70	21.71	21.70	22.8	1
10	16QAM	1	49	21.69	21.86	21.70		
10	16QAM	25	0	20.47	20.58	20.34		
10	16QAM	25	12	20.48	20.54	20.49	21.8	2
10	16QAM	25	25	20.44	20.48	20.43		
10	16QAM	50	0	20.44	20.39	20.49		
10	64QAM	1	0	20.64	20.55	20.61		
10	64QAM	1	25	20.61	20.58	20.69	21.8	2
10	64QAM	1	49	20.53	20.63	20.60		
10	64QAM	25	0	19.46	19.48	19.42		
10	64QAM	25	12	19.46	19.51	19.51	20.8	3
10	64QAM	25	25	19.45	19.54	19.51		
10	64QAM	50	0	19.48	19.49	19.52		
10	256QAM	1	0	17.84	17.78	17.55		
10	256QAM	1	25	17.71	17.64	17.44	19.3	4.5
10	256QAM	1	49	17.61	17.65	17.42		
10	256QAM	25	0	17.51	17.85	17.64		
10	256QAM	25	12	17.68	17.72	17.59	19.3	4.5
10	256QAM	25	25	17.65	17.79	17.67		
10	256QAM	50	0	17.68	17.91	17.45		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	22.39	22.34	22.31		
5	QPSK	1	12	22.43	22.45	22.43	23.8	0
5	QPSK	1	24	22.38	22.42	22.41		
5	QPSK	12	0	21.44	21.43	21.33		
5	QPSK	12	7	21.53	21.54	21.47	22.8	1
5	QPSK	12	13	21.50	21.55	21.47		
5	QPSK	25	0	21.51	21.51	21.45		
5	16QAM	1	0	21.74	21.65	21.66		
5	16QAM	1	12	21.71	21.74	21.69	22.8	1
5	16QAM	1	24	21.69	21.52	21.73		
5	16QAM	12	0	20.49	20.45	20.38		
5	16QAM	12	7	20.56	20.56	20.50	21.8	2
5	16QAM	12	13	20.53	20.59	20.52		
5	16QAM	25	0	20.51	20.51	20.45		
5	64QAM	1	0	20.74	20.62	20.57		
5	64QAM	1	12	20.67	20.63	20.64	21.8	2
5	64QAM	1	24	20.67	20.67	20.67		
5	64QAM	12	0	19.50	19.50	19.46		
5	64QAM	12	7	19.62	19.59	19.56	20.8	3
5	64QAM	12	13	19.62	19.39	19.54		
5	64QAM	25	0	19.50	19.55	19.45		
5	256QAM	1	0	17.82	17.69	17.67		
5	256QAM	1	12	17.73	17.74	17.36	19.3	4.5
5	256QAM	1	24	17.61	17.69	17.46		
5	256QAM	12	0	17.56	17.86	17.65		
5	256QAM	12	7	17.63	17.88	17.53	19.3	4.5
5	256QAM	12	13	17.70	17.87	17.65		
5	256QAM	25	0	17.72	17.82	17.56		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	22.35	22.30	22.26		
3	QPSK	1	8	22.44	22.45	22.46	23.8	0
3	QPSK	1	14	22.44	22.46	22.46		
3	QPSK	8	0	21.49	21.40	21.35		
3	QPSK	8	4	21.56	21.55	21.39	22.8	1
3	QPSK	8	7	21.57	21.54	21.46		
3	QPSK	15	0	21.51	21.53	21.37		
3	16QAM	1	0	21.65	21.64	21.59		
3	16QAM	1	8	21.83	21.83	21.81	22.8	1
3	16QAM	1	14	21.78	21.79	21.75		
3	16QAM	8	0	20.52	20.50	20.42		
3	16QAM	8	4	20.61	20.63	20.47	21.8	2
3	16QAM	8	7	20.66	20.65	20.58		
3	16QAM	15	0	20.56	20.56	20.45		
3	64QAM	1	0	20.67	20.57	20.52		
3	64QAM	1	8	20.76	20.79	20.72	21.8	2
3	64QAM	1	14	20.76	20.75	20.70		
3	64QAM	8	0	19.58	19.49	19.42		
3	64QAM	8	4	19.64	19.61	19.51	20.8	3
3	64QAM	8	7	19.63	19.61	19.54		
3	64QAM	15	0	19.55	19.53	19.42		
3	256QAM	1	0	17.77	17.74	17.57		
3	256QAM	1	8	17.60	17.67	17.42	19.3	4.5
3	256QAM	1	14	17.70	17.69	17.47		
3	256QAM	8	0	17.67	17.84	17.55		
3	256QAM	8	4	17.76	17.81	17.71	19.3	4.5
3	256QAM	8	7	17.77	17.77	17.61		
3	256QAM	15	0	17.73	17.89	17.54		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	22.30	22.25	22.16		
1.4	QPSK	1	3	22.39	22.38	22.31		
1.4	QPSK	1	5	22.38	22.35	22.31	23.8	0
1.4	QPSK	3	0	22.34	22.30	22.23		
1.4	QPSK	3	1	22.40	22.36	22.24		
1.4	QPSK	3	3	22.39	22.35	22.29		
1.4	QPSK	6	0	21.48	21.43	21.28	22.8	1
1.4	16QAM	1	0	21.59	21.60	21.48		
1.4	16QAM	1	3	21.71	21.74	21.66		
1.4	16QAM	1	5	21.69	21.67	21.62	22.8	1
1.4	16QAM	3	0	21.38	21.41	21.27		
1.4	16QAM	3	1	21.47	21.45	21.34		
1.4	16QAM	3	3	21.47	21.45	21.40		
1.4	16QAM	6	0	20.48	20.47	20.35	21.8	2
1.4	64QAM	1	0	21.00	20.97	20.85		
1.4	64QAM	1	3	21.08	21.09	21.05		
1.4	64QAM	1	5	21.05	21.04	21.03	21.8	2
1.4	64QAM	3	0	21.01	20.98	20.81		
1.4	64QAM	3	1	21.04	21.01	20.89		
1.4	64QAM	3	3	21.01	21.02	20.93		
1.4	64QAM	6	0	19.88	19.88	19.80	20.8	3
1.4	256QAM	1	0	17.76	17.69	17.60		
1.4	256QAM	1	3	17.74	17.72	17.42		
1.4	256QAM	1	5	17.59	17.68	17.50	19.3	4.5
1.4	256QAM	3	0	17.66	17.72	17.53		
1.4	256QAM	3	1	17.72	17.78	17.61		
1.4	256QAM	3	3	17.67	17.80	17.51		
1.4	256QAM	6	0	17.80	17.80	17.41	19.3	4.5

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)				821.5	831.5	841.5		
15	QPSK	1	0	22.29	22.28	22.33		
15	QPSK	1	37	22.24	22.25	22.31	23.8	0
15	QPSK	1	74	22.26	22.26	22.25		
15	QPSK	36	0	21.40	21.35	21.45		
15	QPSK	36	20	21.47	21.37	21.51	22.8	1
15	QPSK	36	39	21.41	21.36	21.45		
15	QPSK	75	0	21.41	21.37	21.44		
15	16QAM	1	0	21.55	21.57	21.65		
15	16QAM	1	37	21.59	21.59	21.69	22.8	1
15	16QAM	1	74	21.54	21.62	21.56		
15	16QAM	36	0	20.38	20.40	20.49		
15	16QAM	36	20	20.45	20.33	20.49	21.8	2
15	16QAM	36	39	20.44	20.40	20.47		
15	16QAM	75	0	20.46	20.37	20.42		
15	64QAM	1	0	20.46	20.46	20.53		
15	64QAM	1	37	20.50	20.51	20.59	21.8	2
15	64QAM	1	74	20.52	20.57	20.44		
15	64QAM	36	0	19.41	19.45	19.53		
15	64QAM	36	20	19.48	19.39	19.55	20.8	3
15	64QAM	36	39	19.48	19.44	19.49		
15	64QAM	75	0	19.46	19.41	19.45		
15	256QAM	1	0	18.04	18.15	18.09		
15	256QAM	1	37	18.02	18.12	18.05	19.3	4.5
15	256QAM	1	74	18.06	18.07	18.06		
15	256QAM	36	0	17.90	18.00	17.99		
15	256QAM	36	20	17.91	17.85	17.97	19.3	4.5
15	256QAM	36	39	17.98	17.87	17.95		
15	256QAM	75	0	18.01	17.92	17.94		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.19	22.23	22.32		
10	QPSK	1	25	22.22	22.22	22.29	23.8	0
10	QPSK	1	49	22.19	22.22	22.22		
10	QPSK	25	0	21.33	21.33	21.38		
10	QPSK	25	12	21.39	21.32	21.46	22.8	1
10	QPSK	25	25	21.34	21.33	21.35		
10	QPSK	50	0	21.38	21.29	21.33		
10	16QAM	1	0	21.56	21.63	21.72		
10	16QAM	1	25	21.56	21.63	21.64	22.8	1
10	16QAM	1	49	21.57	21.59	21.64		
10	16QAM	25	0	20.35	20.37	20.38		
10	16QAM	25	12	20.42	20.36	20.47	21.8	2
10	16QAM	25	25	20.28	20.33	20.37		
10	16QAM	50	0	20.34	20.30	20.37		
10	64QAM	1	0	20.45	20.50	20.55		
10	64QAM	1	25	20.52	20.54	20.56	21.8	2
10	64QAM	1	49	20.47	20.49	20.53		
10	64QAM	25	0	19.35	19.37	19.41		
10	64QAM	25	12	19.43	19.35	19.46	20.8	3
10	64QAM	25	25	19.38	19.36	19.39		
10	64QAM	50	0	19.39	19.36	19.39		
10	256QAM	1	0	18.02	18.17	18.09		
10	256QAM	1	25	18.09	18.04	18.13	19.3	4.5
10	256QAM	1	49	18.15	18.17	17.96		
10	256QAM	25	0	17.98	17.94	17.92		
10	256QAM	25	12	17.89	17.80	17.87	19.3	4.5
10	256QAM	25	25	17.98	17.94	17.97		
10	256QAM	50	0	17.94	17.85	18.00		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.22	22.21	22.29		
5	QPSK	1	12	22.27	22.29	22.31	23.8	0
5	QPSK	1	24	22.20	22.26	22.31		
5	QPSK	12	0	21.36	21.34	21.42		
5	QPSK	12	7	21.38	21.40	21.41	22.8	1
5	QPSK	12	13	21.34	21.36	21.38		
5	QPSK	25	0	21.35	21.29	21.34		
5	16QAM	1	0	21.54	21.54	21.62		
5	16QAM	1	12	21.57	21.66	21.63	22.8	1
5	16QAM	1	24	21.54	21.59	21.61		
5	16QAM	12	0	20.37	20.39	20.44		
5	16QAM	12	7	20.45	20.47	20.47	21.8	2
5	16QAM	12	13	20.35	20.39	20.38		
5	16QAM	25	0	20.39	20.35	20.36		
5	64QAM	1	0	20.51	20.52	20.62		
5	64QAM	1	12	20.58	20.55	20.60	21.8	2
5	64QAM	1	24	20.49	20.59	20.54		
5	64QAM	12	0	19.40	19.42	19.47		
5	64QAM	12	7	19.45	19.49	19.54	20.8	3
5	64QAM	12	13	19.37	19.39	19.41		
5	64QAM	25	0	19.40	19.32	19.39		
5	256QAM	1	0	18.10	18.14	18.11		
5	256QAM	1	12	17.93	18.18	17.95	19.3	4.5
5	256QAM	1	24	18.15	18.09	18.05		
5	256QAM	12	0	17.91	18.03	18.08		
5	256QAM	12	7	17.90	17.85	18.00	19.3	4.5
5	256QAM	12	13	17.88	17.96	17.97		
5	256QAM	25	0	17.97	17.96	17.88		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.22	22.20	22.29		
3	QPSK	1	8	22.26	22.31	22.19	23.8	0
3	QPSK	1	14	22.17	22.25	22.26		
3	QPSK	8	0	21.32	21.33	21.41		
3	QPSK	8	4	21.39	21.36	21.42	22.8	1
3	QPSK	8	7	21.36	21.33	21.32		
3	QPSK	15	0	21.39	21.35	21.36		
3	16QAM	1	0	21.54	21.57	21.64		
3	16QAM	1	8	21.67	21.67	21.71	22.8	1
3	16QAM	1	14	21.53	21.59	21.59		
3	16QAM	8	0	20.39	20.45	20.50		
3	16QAM	8	4	20.45	20.47	20.52	21.8	2
3	16QAM	8	7	20.41	20.41	20.42		
3	16QAM	15	0	20.42	20.34	20.42		
3	64QAM	1	0	20.42	20.50	20.64		
3	64QAM	1	8	20.58	20.66	20.61	21.8	2
3	64QAM	1	14	20.44	20.61	20.51		
3	64QAM	8	0	19.40	19.40	19.47		
3	64QAM	8	4	19.47	19.45	19.49	20.8	3
3	64QAM	8	7	19.43	19.43	19.40		
3	64QAM	15	0	19.39	19.34	19.39		
3	256QAM	1	0	18.01	18.24	18.16		
3	256QAM	1	8	18.01	18.05	18.10	19.3	4.5
3	256QAM	1	14	18.03	18.01	18.12		
3	256QAM	8	0	17.87	18.03	17.96		
3	256QAM	8	4	17.99	17.87	17.90	19.3	4.5
3	256QAM	8	7	17.89	17.80	18.05		
3	256QAM	15	0	18.09	17.87	17.92		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.18	22.15	22.21		
1.4	QPSK	1	3	22.22	22.23	22.27		
1.4	QPSK	1	5	22.14	22.14	22.18	23.8	0
1.4	QPSK	3	0	22.24	22.16	22.26		
1.4	QPSK	3	1	22.24	22.20	22.29		
1.4	QPSK	3	3	22.20	22.23	22.21		
1.4	QPSK	6	0	21.24	21.26	21.32	22.8	1
1.4	16QAM	1	0	21.52	21.48	21.60		
1.4	16QAM	1	3	21.59	21.60	21.65		
1.4

Band 30

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					27710			
Frequency (MHz)					2310			
10	QPSK	1	0		22.41			
10	QPSK	1	25		22.39		23.8	0
10	QPSK	1	49		22.35			
10	QPSK	25	0		21.43			
10	QPSK	25	12		21.48		22.8	1
10	QPSK	25	25		21.45			
10	QPSK	50	0		21.47			
10	16QAM	1	0		21.81			
10	16QAM	1	25		21.78		22.8	1
10	16QAM	1	49		21.74			
10	16QAM	25	0		20.42			
10	16QAM	25	12		20.48		21.8	2
10	16QAM	25	25		20.46			
10	16QAM	50	0		20.49			
10	64QAM	1	0		20.59			
10	64QAM	1	25		20.32		21.8	2
10	64QAM	1	49		20.50			
10	64QAM	25	0		19.45			
10	64QAM	25	12		19.40		20.8	3
10	64QAM	25	25		19.24			
10	64QAM	50	0		19.18			
10	256QAM	1	0		17.38			
10	256QAM	1	25		17.53		19.3	4.5
10	256QAM	1	49		17.60			
10	256QAM	25	0		17.46			
10	256QAM	25	12		17.53		19.3	4.5
10	256QAM	25	25		17.47			
10	256QAM	50	0		17.43			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	22.21	22.26	22.36		
5	QPSK	1	12	22.37	22.37	22.37	23.8	0
5	QPSK	1	24	22.39	22.36	22.34		
5	QPSK	12	0	21.37	21.46	21.47		
5	QPSK	12	7	21.50	21.46	21.53	22.8	1
5	QPSK	12	13	21.47	21.46	21.53		
5	QPSK	25	0	21.48	21.43	21.49		
5	16QAM	1	0	21.54	21.63	21.66		
5	16QAM	1	12	21.63	21.70	21.68	22.8	1
5	16QAM	1	24	21.71	21.68	21.67		
5	16QAM	12	0	20.36	20.46	20.52		
5	16QAM	12	7	20.50	20.51	20.56	21.8	2
5	16QAM	12	13	20.52	20.51	20.51		
5	16QAM	25	0	20.48	20.47	20.52		
5	64QAM	1	0	20.47	20.34	20.39		
5	64QAM	1	12	20.46	20.14	20.39	21.8	2
5	64QAM	1	24	20.24	20.19	20.51		
5	64QAM	12	0	19.42	19.17	19.26		
5	64QAM	12	7	19.38	19.18	19.37	20.8	3
5	64QAM	12	13	19.23	19.17	19.41		
5	64QAM	25	0	19.29	19.18	19.23		
5	256QAM	1	0	17.48	17.58	17.50		
5	256QAM	1	12	17.54	17.52	17.44	19.3	4.5
5	256QAM	1	24	17.60	17.50	17.54		
5	256QAM	12	0	17.45	17.44	17.39		
5	256QAM	12	7	17.56	17.53	17.49	19.3	4.5
5	256QAM	12	13	17.45	17.42	17.46		
5	256QAM	25	0	17.33	17.49	17.36		

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)				1720	1745	1770		
20	QPSK	1	0	22.35	22.55	22.44		
20	QPSK	1	49	22.25	22.44	22.30	23.8	0
20	QPSK	1	99	22.18	22.35	22.21		
20	QPSK	50	0	21.39	21.56	21.42		
20	QPSK	50	24	21.37	21.50	21.37	22.8	1
20	QPSK	50	50	21.36	21.50	21.38		
20	QPSK	100	0	21.40	21.48	21.35		
20	16QAM	1	0	21.69	21.92	21.74		
20	16QAM	1	49	21.63	21.82	21.65	22.8	1
20	16QAM	1	99	21.61	21.70	21.60		
20	16QAM	50	0	20.40	20.54	20.43		
20	16QAM	50	24	20.46	20.52	20.39	21.8	2
20	16QAM	50	50	20.43	20.50	20.40		
20	16QAM	100	0	20.41	20.48	20.33		
20	64QAM	1	0	20.57	20.73	20.59		
20	64QAM	1	49	20.50	20.69	20.50	21.8	2
20	64QAM	1	99	20.46	20.61	20.38		
20	64QAM	50	0	19.43	19.56	19.42		
20	64QAM	50	24	19.48	19.53	19.38	20.8	3
20	64QAM	50	50	19.42	19.53	19.39		
20	64QAM	100	0	19.45	19.51	19.36		
20	256QAM	1	0	17.91	17.74	17.82		
20	256QAM	1	49	17.84	17.84	17.88	19.3	4.5
20	256QAM	1	99	17.78	17.88	17.82		
20	256QAM	50	0	17.62	17.66	17.66		
20	256QAM	50	24	17.75	17.72	17.72	19.3	4.5
20	256QAM	50	50	17.73	17.64	17.67		
20	256QAM	100	0	17.72	17.63	17.68		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	22.31	22.44	22.35		
15	QPSK	1	37	22.27	22.44	22.31	23.8	0
15	QPSK	1	74	22.22	22.37	22.22		
15	QPSK	36	0	21.33	21.48	21.35		
15	QPSK	36	20	21.41	21.54	21.41	22.8	1
15	QPSK	36	39	21.39	21.50	21.35		
15	QPSK	75	0	21.41	21.45	21.38		
15	16QAM	1	0	21.62	21.80	21.64		
15	16QAM	1	37	21.58	21.74	21.60	22.8	1
15	16QAM	1	74	21.49	21.63	21.53		
15	16QAM	36	0	20.36	20.50	20.38		
15	16QAM	36	20	20.43	20.55	20.42	21.8	2
15	16QAM	36	39	20.37	20.49	20.34		
15	16QAM	75	0	20.39	20.45	20.39		
15	64QAM	1	0	20.49	20.66	20.50		
15	64QAM	1	37	20.49	20.71	20.49	21.8	2
15	64QAM	1	74	20.41	20.61	20.38		
15	64QAM	36	0	19.43	19.52	19.39		
15	64QAM	36	20	19.45	19.59	19.45	20.8	3
15	64QAM	36	39	19.40	19.52	19.42		
15	64QAM	75	0	19.41	19.45	19.41		
15	256QAM	1	0	17.91	17.74	17.82		
15	256QAM	1	37	17.84	17.84	17.88	19.3	4.5
15	256QAM	1	74	17.78	17.88	17.82		
15	256QAM	36	0	17.62	17.66	17.66		
15	256QAM	36	20	17.75	17.72	17.72	19.3	4.5
15	256QAM	36	39	17.73	17.64	17.67		
15	256QAM	75	0	17.72	17.63	17.68		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	22.30	22.42	22.24		
10	QPSK	1	25	22.21	22.36	22.18	23.8	0
10	QPSK	1	49	22.21	22.31	22.14		
10	QPSK	25	0	21.33	21.42	21.29		
10	QPSK	25	12	21.39	21.45	21.27	22.8	1
10	QPSK	25	25	21.32	21.49	21.29		
10	QPSK	50	0	21.37	21.41	21.25		
10	16QAM	1	0	21.68	21.82	21.64		
10	16QAM	1	25	21.61	21.79	21.57	22.8	1
10	16QAM	1	49	21.58	21.73	21.52		
10	16QAM	25	0	20.31	20.46	20.30		
10	16QAM	25	12	20.41	20.46	20.28	21.8	2
10	16QAM	25	25	20.34	20.48	20.33		
10	16QAM	50	0	20.38	20.44	20.27		
10	64QAM	1	0	20.51	20.60	20.47		
10	64QAM	1	25	20.60	20.68	20.53	21.8	2
10	64QAM	1	49	20.54	20.58	20.52		
10	64QAM	25	0	19.34	19.50	19.35		
10	64QAM	25	12	19.46	19.48	19.33	20.8	3
10	64QAM	25	25	19.38	19.52	19.34		
10	64QAM	50	0	19.41	19.48	19.29		
10	256QAM	1	0	17.91	17.74	17.82		
10	256QAM	1	25	17.84	17.84	17.88	19.3	4.5
10	256QAM	1	49	17.78	17.88	17.82		
10	256QAM	25	0	17.62	17.66	17.66		
10	256QAM	25	12	17.75	17.72	17.72	19.3	4.5
10	256QAM	25	25	17.73	17.64	17.67		
10	256QAM	50	0	17.72	17.63	17.68		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	22.22	22.36	22.16		
5	QPSK	1	12	22.33	22.43	22.25	23.8	0
5	QPSK	1	24	22.26	22.38	22.18		
5	QPSK	12	0	21.33	21.43	21.28		
5	QPSK	12	7	21.37	21.53	21.31	22.8	1
5	QPSK	12	13	21.35	21.46	21.25		
5	QPSK	25	0	21.35	21.47	21.29		
5	16QAM	1	0	21.58	21.76	21.53		
5	16QAM	1	12	21.64	21.77	21.54	22.8	1
5	16QAM	1	24	21.61	21.74	21.53		
5	16QAM	12	0	20.34	20.47	20.31		
5	16QAM	12	7	20.39	20.57	20.34	21.8	2
5	16QAM	12	13	20.41	20.52	20.28		
5	16QAM	25	0	20.41	20.54	20.28		
5	64QAM	1	0	20.48	20.62	20.42		
5	64QAM	1	12	20.51	20.64	20.45	21.8	2
5	64QAM	1	24	20.53	20.63	20.43		
5	64QAM	12	0	19.42	19.51	19.31		
5	64QAM	12	7	19.48	19.60	19.42	20.8	3
5	64QAM	12	13	19.45	19.51	19.37		
5	64QAM	25	0	19.41	19.50	19.34		
5	256QAM	1	0	17.91	17.74	17.82		
5	256QAM	1	12	17.84	17.84	17.88	19.3	4.5
5	256QAM	1	24	17.78	17.88	17.82		
5	256QAM	12	0	17.62	17.66	17.66		
5	256QAM	12	7	17.75	17.72	17.72	19.3	4.5
5	256QAM	12	13	17.73	17.64	17.67		
5	256QAM	25	0	17.72	17.63	17.68		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	22.23	22.37	22.20		
3	QPSK	1	8	22.32	22.46	22.29	23.8	0
3	QPSK	1	14	22.28	22.38	22.22		
3	QPSK	8	0	21.38	21.46	21.26		
3	QPSK	8	4	21.38	21.49	21.29	22.8	1
3	QPSK	8	7	21.37	21.46	21.24		
3	QPSK	15	0	21.33	21.46	21.27		
3	16QAM	1	0	21.56	21.65	21.49		
3	16QAM	1	8	21.68	21.79	21.60	22.8	1
3	16QAM	1	14	21.56	21.69	21.50		
3	16QAM	8	0	20.45	20.49	20.32		
3	16QAM	8	4	20.48	20.56	20.39	21.8	2
3	16QAM	8	7	20.42	20.53	20.35		
3	16QAM	15	0	20.35	20.54	20.33		
3	64QAM	1	0	20.50	20.65	20.47		
3	64QAM	1	8	20.61	20.77	20.58	21.8	2
3	64QAM	1	14	20.57	20.65	20.48		
3	64QAM	8	0	19.41	19.55	19.29		
3	64QAM	8	4	19.42	19.58	19.42	20.8	3
3	64QAM	8	7	19.41	19.52	19.38		
3	64QAM	15	0	19.42	19.53	19.35		
3	256QAM	1	0	17.91	17.74	17.82		
3	256QAM	1	8	17.84	17.84	17.88	19.3	4.5
3	256QAM	1	14	17.78	17.88	17.82		
3	256QAM	8	0	17.62	17.66	17.66		
3	256QAM	8	4	17.75	17.72	17.72	19.3	4.5
3	256QAM	8	7	17.73	17.64	17.67		
3	256QAM	15	0	17.72	17.63	17.68		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	22.46	22.34	22.03		
1.4	QPSK	1	3	22.33	22.36	22.18		
1.4	QPSK	1	5	22.21	22.29	22.10	23.8	0
1.4	QPSK	3	0	22.25	22.35	22.09		
1.4	QPSK	3	1	22.29	22.39	22.14		
1.4	QPSK	3	3	22.23	22.30	22.10		
1.4	QPSK	6	0	21.28	21.40	21.17	22.8	1
1.4	16QAM	1	0	21.54	21.67	21.41		
1.4	16QAM	1	3	21.63	21.70	21.54		
1.4	16QAM	1	5	21.54	21.62	21.50	22.8	1
1.4	16QAM	3	0	21.34	21.47	21.19		
1.4	16QAM	3	1	21.35	21.48	21.27		
1.4	16QAM	3	3	21.31	21.45	21.22		
1.4	16QAM	6	0	20.36	20.45	20.28	21.8	2
1.4	64QAM	1	0	20.98	21.14	20.87		
1.4	64QAM	1	3	21.02	21.12	20.94		
1.4	64QAM	1	5	20.93	21.06	20.89	21.8	2
1.4	64QAM	3	0	20.95	21.05	20.81		
1.4	64QAM	3	1	20.99	21.10	20.85		
1.4	64QAM	3	3	20.94	21.06	20.88		
1.4	64QAM	6	0	19.91	20.05	19.80	20.8	3
1.4	256QAM	1	0	17.91	17.74	17.82		
1.4	256QAM	1	3	17.84	17.84	17.88		
1.4	256QAM	1	5	17.78	17.88	17.82	19.3	4.5
1.4	256QAM	3	0	17.62	17.66	17.66		
1.4	256QAM	3	1	17.75	17.72	17.72		
1.4	256QAM	3	3	17.73	17.64	17.67		
1.4	256QAM	6	0	17.72	17.63	17.68	19.3	4.5

Band 71

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	683	688		
20	QPSK	1	0	22.82	22.85	22.80		
20	QPSK	1	49	22.70	22.74	22.76	23.8	0
20	QPSK	1	99	22.56	22.57	22.59		
20	QPSK	50	0	21.76	21.79	21.81		
20	QPSK	50	24	21.79	21.89	21.94	22.8	1
20	QPSK	50	50	21.75	21.73	21.72		
20	QPSK	100	0	21.76	21.78	21.69		
20	16QAM	1	0	22.31	22.28	22.21		
20	16QAM	1	49	22.11	22.07	22.05	22.8	1
20	16QAM	1	99	21.93	21.95	21.98		
20	16QAM	50	0	20.88	20.79	20.84		
20	16QAM	50	24	20.91	20.88	20.86	21.8	2
20	16QAM	50	50	20.76	20.76	20.74		
20	16QAM	100	0	20.89	20.86	20.81		
20	64QAM	1	0	21.21	21.04	21.10		
20	64QAM	1	49	20.97	21.05	21.02	21.8	2
20	64QAM	1	99	20.88	20.79	20.83		
20	64QAM	50	0	19.95	19.93	19.88		
20	64QAM	50	24	19.98	19.89	19.87	20.8	3
20	64QAM	50	50	19.81	19.74	19.76		
20	64QAM	100	0	19.84	19.81	19.87		
20	256QAM	1	0	18.08	17.97	18.02		
20	256QAM	1	49	17.98	17.91	18.01	19.3	4.5
20	256QAM	1	99	18.05	17.94	17.92		
20	256QAM	50	0	17.83	17.92	17.91		
20	256QAM	50	24	17.92	17.78	17.98	19.3	4.5
20	256QAM	50	50	17.85	17.80	17.75		
20	256QAM	100	0	17.90	17.81	17.94		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	22.77	22.78	22.76		
15	QPSK	1	37	22.73	22.70	22.72	23.8	0
15	QPSK	1	74	22.50	22.52	22.61		
15	QPSK	36	0	21.82	21.83	21.90		
15	QPSK	36	20	21.75	21.80	21.83	22.8	1
15	QPSK	36	39	21.74	21.79	21.69		
15	QPSK	75	0	21.73	21.70	21.78		
15	16QAM	1	0	22.33	22.24	22.17		
15	16QAM	1	37	22.08	21.99	22.04	22.8	1
15	16QAM	1	74	21.93	21.94	21.93		
15	16QAM	36	0	20.86	20.77	20.79		
15	16QAM	36	20	20.84	20.82	20.84	21.8	2
15	16QAM	36	39	20.74	20.75	20.75		
15	16QAM	75	0	20.91	20.81	20.78		
15	64QAM	1	0	21.14	21.00	21.05		
15	64QAM	1	37	20.89	21.05	21.00	21.8	2
15	64QAM	1	74	20.87	20.72	20.76		
15	64QAM	36	0	19.97	19.90	19.85		
15	64QAM	36	20	19.95	19.82	19.89	20.8	3
15	64QAM	36	39	19.73	19.74	19.73		
15	64QAM	75	0	19.78	19.74	19.87		
15	256QAM	1	0	18.12	18.05	18.07		
15	256QAM	1	37	18.06	17.99	18.05	19.3	4.5
15	256QAM	1	74	17.98	18.01	17.92		
15	256QAM	36	0	17.80	17.90	17.95		
15	256QAM	36	20	17.97	17.88	18.01	19.3	4.5
15	256QAM	36	39	17.79	17.74	17.83		
15	256QAM	75	0	17.82	17.80	17.94		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	22.81	22.80	22.79		
10	QPSK	1	25	22.75	22.66	22.74	23.8	0
10	QPSK	1	49	22.49	22.48	22.52		
10	QPSK	25	0	21.83	21.85	21.84		
10	QPSK	25	12	21.72	21.80	21.85	22.8	1
10	QPSK	25	25	21.75	21.75	21.69		
10	QPSK	50	0	21.79	21.80	21.71		
10	16QAM	1	0	22.23	22.25	22.21		
10	16QAM	1	25	22.03	22.06	22.05	22.8	1
10	16QAM	1	49	21.94	21.97	21.93		
10	16QAM	25	0	20.82	20.79	20.84		
10	16QAM	25	12	20.93	20.84	20.78	21.8	2
10	16QAM	25	25	20.76	20.74	20.67		
10	16QAM	50	0	20.91	20.84	20.73		
10	64QAM	1	0	21.22	21.02	21.06		
10	64QAM	1	25	20.89	21.03	20.97	21.8	2
10	64QAM	1	49	20.89	20.79	20.84		
10	64QAM	25	0	19.90	19.86	19.89		
10	64QAM	25	12	19.99	19.89	19.89	20.8	3
10	64QAM	25	25	19.78	19.66	19.70		
10	64QAM	50	0	19.83	19.77	19.79		
10	256QAM	1	0	18.16	17.92	18.06		
10	256QAM	1	25	17.97	18.00	17.91	19.3	4.5
10	256QAM	1	49	18.15	17.88	17.99		
10	256QAM	25	0	17.84	18.02	17.90		
10	256QAM	25	12	17.90	17.81	18.01	19.3	4.5
10	256QAM	25	25	17.84	17.72	17.85		
10	256QAM	50	0	18.00	17.75	17.90		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	22.79	22.80	22.76		
5	QPSK	1	12	22.67	22.63	22.68	23.8	0
5	QPSK	1	24	22.50	22.50	22.57		
5	QPSK	12	0	21.85	21.84	21.81		
5	QPSK	12	7	21.72	21.71	21.83	22.8	1
5	QPSK	12	13	21.67	21.77	21.72		
5	QPSK	25	0	21.79	21.75	21.75		
5	16QAM	1	0	22.27	22.20	22.15		
5	16QAM	1	12	22.11	22.04	21.97	22.8	1
5	16QAM	1	24	21.89	21.94	21.90		
5	16QAM	12	0	20.81	20.79	20.78		
5	16QAM	12	7	20.85	20.85	20.80	21.8	2
5	16QAM	12	13	20.78	20.68	20.74		
5	16QAM	25	0	20.87	20.88	20.78		
5	64QAM	1	0	21.23	21.06	21.07		
5	64QAM	1	12	20.96	21.05	20.98	21.8	2
5	64QAM	1	24	20.82	20.71	20.84		
5	64QAM	12	0	19.91	19.92	19.88		
5	64QAM	12	7	19.94	19.82	19.89	20.8	3
5	64QAM	12	13	19.76	19.74	19.72		
5	64QAM	25	0	19.82	19.79	19.84		
5	256QAM	1	0	18.14	18.06	17.94		
5	256QAM	1	12	17.94	17.92	17.99	19.3	4.5
5	256QAM	1	24	18.14	18.04	17.98		
5	256QAM	12	0	17.78	18.02	17.92		
5	256QAM	12	7	17.96	17.69	17.92	19.3	4.5
5	256QAM	12	13	17.84	17.90	17.81		
5	256QAM	25	0	17.87	17.77	17.97		

Band 38(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			37850	38000	38150		
	Frequency (MHz)			2580	2595	2610		
20	QPSK	1	0	22.59	22.37	22.40	23.8	0
20	QPSK	1	49	22.52	22.35	22.38		
20	QPSK	1	99	22.50	22.30	22.36		
20	QPSK	50	0	21.61	21.47	21.48	22.8	1
20	QPSK	50	24	21.63	21.49	21.57		
20	QPSK	50	50	21.61	21.48	21.53		
20	QPSK	100	0	21.61	21.54	21.49		
20	16QAM	1	0	21.72	21.43	21.57	22.8	1
20	16QAM	1	49	21.57	21.59	21.62		
20	16QAM	1	99	21.63	21.47	21.59		
20	16QAM	50	0	20.55	20.46	20.49	21.8	2
20	16QAM	50	24	20.65	20.41	20.61		
20	16QAM	50	50	20.74	20.46	20.53		
20	16QAM	100	0	20.67	20.53	20.64		
20	64QAM	1	0	20.31	20.32	20.26	21.8	2
20	64QAM	1	49	20.32	20.34	20.23		
20	64QAM	1	99	20.26	20.26	20.24		
20	64QAM	50	0	19.53	19.36	19.52	20.8	3
20	64QAM	50	24	19.66	19.40	19.60		
20	64QAM	50	50	19.69	19.52	19.58		
20	64QAM	100	0	19.64	19.56	19.60		
20	256QAM	1	0	17.58	17.66	17.71	19.3	4.5
20	256QAM	1	49	17.52	17.51	17.59		
20	256QAM	1	99	17.53	17.61	17.56		
20	256QAM	50	0	17.82	17.88	17.91	19.3	4.5
20	256QAM	50	24	17.90	17.87	17.94		
20	256QAM	50	50	17.85	17.89	17.92		
20	256QAM	100	0	17.82	17.80	17.90		
	Channel			37825	38000	38175	Tune-up limit	MPR
	Frequency (MHz)			2577.5	2595	2612.5	(dBm)	(dB)
15	QPSK	1	0	22.57	22.31	22.42	23.8	0
15	QPSK	1	37	22.47	22.28	22.37		
15	QPSK	1	74	22.46	22.21	22.44		
15	QPSK	36	0	21.71	21.29	21.53	22.8	1
15	QPSK	36	20	21.64	21.47	21.44		
15	QPSK	36	39	21.70	21.49	21.58		
15	QPSK	75	0	21.76	21.48	21.50		
15	16QAM	1	0	21.68	21.56	21.67	22.8	1
15	16QAM	1	37	21.63	21.38	21.31		
15	16QAM	1	74	21.79	21.33	21.54		
15	16QAM	36	0	20.68	20.36	20.42	21.8	2
15	16QAM	36	20	20.61	20.47	20.42		
15	16QAM	36	39	20.61	20.45	20.56		
15	16QAM	75	0	20.77	20.41	20.52		
15	64QAM	1	0	20.30	20.27	20.25	21.8	2
15	64QAM	1	37	20.28	20.21	20.27		
15	64QAM	1	74	20.24	20.23	20.34		
15	64QAM	36	0	19.63	19.38	19.48	20.8	3
15	64QAM	36	20	19.66	19.40	19.44		
15	64QAM	36	39	19.63	19.50	19.60		
15	64QAM	75	0	19.62	19.54	19.50	19.3	4.5
15	256QAM	1	0	17.63	17.70	17.67		
15	256QAM	1	37	17.60	17.43	17.64		
15	256QAM	1	74	17.48	17.57	17.51		
15	256QAM	36	0	17.79	17.98	17.87	19.3	4.5
15	256QAM	36	20	17.80	17.82	17.94		
15	256QAM	36	39	17.85	17.93	17.96		
15	256QAM	75	0	17.78	17.83	17.90		
	Channel			37600	38000	38400	Tune-up limit	MPR
	Frequency (MHz)			2575	2595	2615	(dBm)	(dB)
10	QPSK	1	0	22.44	22.33	22.48	23.8	0
10	QPSK	1	25	22.36	22.38	22.48		
10	QPSK	1	49	22.38	22.22	22.32		
10	QPSK	25	0	21.64	21.46	21.53	22.8	1
10	QPSK	25	12	21.57	21.57	21.72		
10	QPSK	25	25	21.64	21.55	21.73		
10	QPSK	50	0	21.66	21.53	21.68		
10	16QAM	1	0	21.57	21.65	21.76	22.8	1
10	16QAM	1	25	21.60	21.62	21.66		
10	16QAM	1	49	21.68	21.62	21.58		
10	16QAM	25	0	20.60	20.48	20.51	21.8	2
10	16QAM	25	12	20.57	20.48	20.66		
10	16QAM	25	25	20.56	20.53	20.76		
10	16QAM	50	0	20.70	20.60	20.77		
10	64QAM	1	0	20.24	20.48	20.42	21.8	2
10	64QAM	1	25	20.16	20.17	20.46		
10	64QAM	1	49	20.37	20.50	20.62		
10	64QAM	25	0	19.57	19.57	19.63	20.8	3
10	64QAM	25	12	19.54	19.69	19.84		
10	64QAM	25	25	19.56	19.69	19.67		
10	64QAM	50	0	19.58	19.50	19.79		
10	256QAM	1	0	17.48	17.66	17.64	19.3	4.5
10	256QAM	1	25	17.48	17.48	17.63		
10	256QAM	1	49	17.50	17.60	17.65		
10	256QAM	25	0	17.91	17.91	17.86	19.3	4.5
10	256QAM	25	12	17.93	17.91	17.86		
10	256QAM	25	25	17.79	17.81	17.84		
10	256QAM	50	0	17.83	17.77	17.80		
	Channel			37775	38000	38225	Tune-up limit	MPR
	Frequency (MHz)			2572.5	2595	2617.5	(dBm)	(dB)
5	QPSK	1	0	22.47	22.40	22.46	23.8	0
5	QPSK	1	12	22.47	22.35	22.37		
5	QPSK	1	24	22.44	22.35	22.45		
5	QPSK	12	0	21.76	21.48	21.67	22.8	1
5	QPSK	12	7	21.76	21.53	21.64		
5	QPSK	12	13	21.80	21.51	21.73		
5	QPSK	25	0	21.68	21.48	21.61		
5	16QAM	1	0	21.73	21.45	21.66	22.8	1
5	16QAM	1	12	21.78	21.53	21.70		
5	16QAM	1	24	21.85	21.56	21.72		
5	16QAM	12	0	20.72	20.36	20.64	21.8	2
5	16QAM	12	7	20.75	20.51	20.59		
5	16QAM	12	13	20.69	20.44	20.69		
5	16QAM	25	0	20.81	20.48	20.69		
5	64QAM	1	0	20.50	20.30	20.43	21.8	2
5	64QAM	1	12	20.48	20.25	20.48		
5	64QAM	1	24	20.45	20.29	20.45		
5	64QAM	12	0	19.74	19.46	19.66	20.8	3
5	64QAM	12	7	19.83	19.53	19.70		
5	64QAM	12	13	19.81	19.51	19.70		
5	64QAM	25	0	19.82	19.58	19.68		
5	256QAM	1	0	17.68	17.57	17.79	19.3	4.5
5	256QAM	1	12	17.43	17.53	17.51		
5	256QAM	1	24	17.53	17.68	17.64		
5	256QAM	12	0	17.89	17.81	17.98	19.3	4.5
5	256QAM	12	7	17.89	17.83	17.97		
5	256QAM	12	13	17.80	17.96	18.02		
5	256QAM	25	0	17.85	17.83	17.95		

Band 41 (2.6G Band)--Class 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
	Channel			39750	40185	40620	41055	41490		
	Frequency (MHz)			2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.47	22.58	22.52	22.65	22.59	23.8	0
20	QPSK	1	49	22.52	22.69	22.54	22.68	22.63		
20	QPSK	1	99	22.43	22.66	22.53	22.64	22.61		
20	QPSK	50	0	21.55	21.68	21.61	21.81	21.70	22.8	1
20	QPSK	50	24	21.56	21.75	21.71	21.76	21.71		
20	QPSK	50	50	21.58	21.85	21.73	21.83	21.73		
20	QPSK	100	0	21.63	21.76	21.71	21.66	21.74		
20	16QAM	1	0	21.60	21.70	21.86	21.89	21.91	22.8	1
20	16QAM	1	49	21.55	21.73	21.77	21.72	21.86		
20	16QAM	1	99	21.55	21.76	21.78	21.74	21.71		
20	16QAM	50	0	20.65	20.68	20.62	20.72	20.90	21.8	2
20	16QAM	50	24	20.67	20.84	20.63	20.78	20.92		
20	16QAM	50	50	20.58	20.85	20.75	20.76	20.89		
20	16QAM	100	0	20.64	20.86	20.73	20.89	20.95		
20	64QAM	1	0	20.37	20.31	20.39	20.53	20.90	21.8	2
20	64QAM	1	49	20.27	20.33	20.38	20.46	20.61		
20	64QAM	1	99	20.26	20.47	20.44	20.59	20.66		
20	64QAM	50	0	19.64	19.75	19.71	19.82	19.99	20.8	3
20	64QAM	50	24	19.66	19.91	19.61	19.78	19.91		
20	64QAM	50	50	19.66	19.79	19.73	19.76	19.98		
20	64QAM	100	0	19.63	19.81	19.73	19.81	19.84		
20	256QAM	1	0	17.64	17.43	17.48	17.49	17.45	19.3	4.5
20	256QAM	1	49	17.51	17.37	17.42	17.31	17.35		
20	256QAM	1	99	17.55	17.34	17.30	17.37	17.36		
20	256QAM	50	0	17.91	17.68	17.73	17.73	17.70	19.3	4.5
20	256QAM	50	24	17.91	17.71	17.72	17.67	17.66		
20	256QAM	50	50	17.87	17.68	17.75	17.71	17.72		
20	256QAM	100	0	17.82	17.63	17.66	17.62	17.58		
	Channel			39725	40173	40623	41088	41515	Tune-up limit	MPR
	Frequency (MHz)			2503.5	2548.3	2593	2637.8	2682.5	(dBm)	(dB)
15	QPSK	1	0	22.44	22.55	22.43	22.59	22.66	23.8	0
15	QPSK	1	37	22.37	22.60	22.36	22.45	22.53		
15	QPSK	1	74	22.40	22.67	22.67	22.62	22.67		
15	QPSK	36	0	21.54	21.62	21.54	21.68	21.82	22.8	1
15	QPSK	36	20	21.52	21.75	21.62	21.61	21.78		
15	QPSK	36	39	21.51	21.76	21.62	21.77	21.85		
15	QPSK	75	0	21.60	21.73	21.63	21.65	21.79		
15	16QAM	1	0	21.63	21.65	21.72	21.70	21.82	22.8	1
15	16QAM	1	37	21.29	21.42	21.68	21.76	21.62		
15	16QAM	1	74	21.51	21.81	21.79	21.82	21.89		
15	16QAM	36	0	20.50	20.66	20.50	20.65	20.78	21.8	2
15	16QAM	36	20	20.47	20.71	20.59	20.59	20.73		
15	16QAM	36	39	20.46	20.72	20.60	20.76	20.82		
15	16QAM	75	0	20.61	20.74	20.65	20.77	20.79		
15	64QAM	1	0	20.29	20.36	20.27	20.45	20.48	21.8	2
15	64QAM	1	37	20.32	20.41	20.32	20.53	20.58		
15	64QAM	1	74	20.25	20.63	20.44	20.60	20.52		
15	64QAM	36	0	19.53	19.66	19.61	19.79	19.81	20.8	3
15	64QAM	36	20	19.60	19.79	19.61	19.73	19.77		
15	64QAM	36	39	19.59	19.82	19.74	19.80	19.85		
15	64QAM	75	0	19.13	19.45	19.28	19.30	19.43	19.3	4.5
15	256QAM	1	0	17.88	17.63	17.75	17.76	17.62		
15	256QAM	1	37	17.62	17.64	17.53	17.43	17.61		
15	256QAM	1	74	17.84	17.44	17.44	17.57	17.48		
15	256QAM	36	0	17.91	17.62	17.74	17.72	17.77	19.3	4.5
15	256QAM	36	20	17.97	17.66	17.63	17.62	17.74		
15	256QAM	36	39	17.84	17.66	17.67	17.78	17.72		
15	256QAM	75	0	17.85	17.58	17.67	17.66	17.59		
	Channel			39700	40160	40620	41080	41540	Tune-up limit	MPR
	Frequency (MHz)			2501	2547	2593	2639	2685	(dBm)	(dB)
10	QPSK	1	0	22.23	22.62	22.41	22.57	22.59	23.8	0
10	QPSK	1	25	22.40	22.65	22.43	22.48	22.63		
10	QPSK	1	49	22.23	22.65	22.67	22.57	22.67		
10	QPSK	25	0	21.59	21.71	21.51	21.64	21.78	22.8	1
10	QPSK	25	12	21.51	21.78	21.63	21.63	21.96		
10	QPSK	25	25	21.61	21.76	21.60	21.74	21.81		
10	QPSK	50	0	21.57	21.74	21.60	21.61	21.80		
10	16QAM	1	0	21.56	21.74	21.67	21.67	21.94	22.8	1
10	16QAM	1	25	21.50	21.68	21.73	21.75	21.93		
10	16QAM	1	49	21.61	21.82	21.77	21.81	21.80		
10	16QAM	25	0	20.59	20.62	20.53	20.57	20.79	21.8	2
10	16QAM	25	12	20.62	20.79	20.60	20.54	20.96		
10	16QAM	25	25	20.50	20.68	20.64	20.80	20.83		
10	16QAM	50	0	20.57	20.71	20.58	20.80	20.81		
10	64QAM	1	0	20.37	20.38	20.33	20.43	20.80	21.8	2
10	64QAM	1	25	20.34	20.40	20.31	20.55	20.78		
10	64QAM	1	49	20.39	20.61	20.40	20.64	20.86		
10	64QAM	25	0	19.61	19.68	19.62	19.76	19.93	20.8	3
10	64QAM	25	12	19.65	19.81	19.64	19.70	20.11		
10	64QAM	25	25	19.74	19.80	19.70	19.77	19.86		
10	64QAM	50	0	19.66	19.82	19.65	19.71	19.81		
10	256QAM	1	0	17.86	17.60	17.59	17.73	17.68	19.3	4.5
10	256QAM	1	25	17.69	17.52	17.52	17.41	17.65		
10	256QAM	1	49	17.68	17.46	17.49	17.67	17.46		
10	256QAM	25	0	17.81	17.64	17.81	17.75	17.62	19.3	4.5
10	256QAM	25	12	17.82	17.76	17.77	17.58	17.64		
10	256QAM	25	25	17.85	17.62	17.78	17.81	17.67		
10	256QAM	50	0	17.85	17.67	17.63	17.64	17.52		
	Channel			39675	40143	40620	41093	41565	Tune-up limit	MPR
	Frequency (MHz)			2498.5	2545.8	2593	2640.30	2687.5	(dBm)	(dB)
5	QPSK	1	0	22.53	22.63	22.49	22.63	22.64	23.8	0
5	QPSK	1	12	22.46	22.64	22.56	22.65	22.60		
5	QPSK	1	24	22.48	22.66	22.56	22.63	22.63		
5	QPSK	12	0	21.60	21.73	21.66	21.72	21.86	22.8	1
5	QPSK	12	7	21.62	21.79	21.69	21.74	21.85		
5	QPSK	12	13	21.65	21.77	21.67	21.79	21.87		
5	QPSK	25	0	21.56	21.74	21.64	21.69	21.91		
5	16QAM	1	0	21.63	21.73	21.69	21.73	21.91	22.8	1
5	16QAM	1	12	21.87	22.06	21.96	21.80	21.83		
5	16QAM	1	24	21.63	21.81	21.72	21.79	21.87		
5	16QAM	12	0	20.56	20.79	20.63	20.70	20.82	21.8	2
5	16QAM	12	7	20.56	20.74	20.67	20.71	20.91		
5	16QAM	12	13	20.60	20.72	20.64	20.77	20.83		
5	16QAM	25	0	20.67	20.76	20.73	20.73	20.92		
5	64QAM	1	0	20.42	20.47	20.34	20.51	20.67	21.8	2
5	64QAM	1	12	20.32	20.48	20.42	20.56	20.58		
5	64QAM	1	24	20.41	20.54	20.48	20.58	20.64		
5	64QAM	12	0	19.61	19.81	19.68	19.76	19.87	20.8	3
5	64QAM	12	7	19.61	19.87	19.81	19.77	19.86		
5	64QAM	12	13	19.65	19.73	19.69	19.73	19.88		
5	64QAM	25	0	19.60	19.85	19.71	19.77	19.95		
5	256QAM	1	0	17.65	17.49	17.48	17.39	17.51	19.3	4.5
5	256QAM	1	12	17.59	17.42	17.48	17.30	17.42		
5	256QAM	1	24	17.65	17.33	17.39	17.42	17.31		
5	256QAM	12	0	17.95	17.78	17.69	17.73	17.78	19.3	4.5
5	256QAM	12	7	17.96	17.79	17.66	17.70	17.59		
5	256QAM	12	13	17.88	17.67	17.72	17.65	17.72		
5	256QAM	25	0	17.75	17.67	17.63	17.63	17.59		

Band 41 (2.6G Band) HPUE (Limit 27)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
	Channel			39750	40185	40620	41055	41490		
	Frequency (MHz)			2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.61	24.64	24.59	24.63	24.67	26.3	0
20	QPSK	1	49	24.63	24.76	24.60	24.67	24.72		
20	QPSK	1	99	24.53	24.72	24.58	24.65	24.67		
20	QPSK	50	0	23.78	23.80	23.71	23.86	23.87	25.3	1
20	QPSK	50	24	23.77	23.88	23.72	23.86	23.89		
20	QPSK	50	50	23.87	23.92	23.73	23.88	23.90		
20	QPSK	100	0	23.83	23.88	23.86	23.81	23.81		
20	16QAM	1	0	23.95	23.98	23.85	24.02	24.24	25.3	1
20	16QAM	1	49	23.94	23.87	23.93	24.00	24.12		
20	16QAM	1	99	23.84	24.05	23.88	24.14	24.00		
20	16QAM	50	0	22.94	22.85	22.75	22.80	22.91	24.3	2
20	16QAM	50	24	22.89	22.94	22.76	22.83	22.94		
20	16QAM	50	50	22.90	22.85	22.90	22.90	22.93		
20	16QAM	100	0	22.86	22.95	22.88	22.93	22.97		
20	64QAM	1	0	22.87	22.81	22.69	22.78	23.00	24.3	2
20	64QAM	1	49	22.81	22.87	22.68	22.82	22.93		
20	64QAM	1	99	22.63	22.94	22.74	22.95	22.76		
20	64QAM	50	0	21.92	21.77	21.75	21.81	22.01	23.3	3
20	64QAM	50	24	21.78	21.86	21.75	21.86	21.95		
20	64QAM	50	50	21.69	21.96	21.79	21.94	22.02		
20	64QAM	100	0	21.74	21.98	21.89	21.89	21.89	21.8	4.5
20	256QAM	1	0	20.20	20.05	20.04	20.03	20.01		
20	256QAM	1	49	20.06	19.89	19.99	19.84	19.90		
20	256QAM	1	99	20.15	19.93	19.96	19.91	19.91		
20	256QAM	50	0	20.33	20.17	20.16	20.16	20.11	21.8	4.5
20	256QAM	50	24	20.31	20.20	20.14	20.12	20.10		
20	256QAM	50	50	20.23	20.12	20.16	20.13	20.11		
20	256QAM	100	0	20.25	20.10	20.02	20.02	20.03		
	Channel			39725	40173	40623	41088	41515	Tune-up limit	MPR
	Frequency (MHz)			2503.5	2548.3	2593	2637.8	2682.5	(dBm)	(dB)
15	QPSK	1	0	24.43	24.65	24.58	24.63	24.71	26.3	0
15	QPSK	1	37	24.47	24.65	24.64	24.63	24.69		
15	QPSK	1	74	24.53	24.67	24.73	24.65	24.63		
15	QPSK	36	0	23.74	23.80	23.71	23.85	23.90	25.3	1
15	QPSK	36	20	23.76	23.87	23.84	23.79	23.88		
15	QPSK	36	39	23.67	23.90	23.84	23.81	23.97		
15	QPSK	75	0	23.73	23.94	23.83	23.70	23.80		
15	16QAM	1	0	23.90	24.02	23.95	23.99	24.10	25.3	1
15	16QAM	1	37	23.74	23.92	23.83	24.13	24.04		
15	16QAM	1	74	23.81	24.13	24.02	24.04	24.14		
15	16QAM	36	0	22.64	22.81	22.69	22.78	22.90	24.3	2
15	16QAM	36	20	22.65	22.87	22.72	22.80	22.79		
15	16QAM	36	39	22.67	22.90	22.83	22.85	22.87		
15	16QAM	75	0	22.77	22.98	22.86	22.76	22.93		
15	64QAM	1	0	22.89	22.77	22.66	22.77	23.04	24.3	2
15	64QAM	1	37	22.77	22.86	22.71	22.86	22.97		
15	64QAM	1	74	22.67	22.96	22.76	22.98	22.74		
15	64QAM	36	0	21.96	21.79	21.73	21.76	21.98	23.3	3
15	64QAM	36	20	21.79	21.90	21.80	21.88	21.98		
15	64QAM	36	39	21.71	22.00	21.81	21.98	22.06		
15	64QAM	75	0	21.79	22.00	21.88	21.91	21.94	21.8	4.5
15	256QAM	1	0	20.29	19.99	20.02	20.06	19.98		
15	256QAM	1	37	20.15	19.93	19.93	19.89	19.88		
15	256QAM	1	74	20.19	19.91	20.03	19.83	19.93		
15	256QAM	36	0	20.23	20.16	20.16	20.26	20.18	21.8	4.5
15	256QAM	36	20	20.37	20.14	20.20	20.11	20.18		
15	256QAM	36	39	20.14	20.21	20.24	20.22	20.02		
15	256QAM	75	0	20.20	20.03	20.12	20.04	20.02		
	Channel			39700	40160	40620	41080	41540	Tune-up limit	MPR
	Frequency (MHz)			2501	2547	2593	2639	2685	(dBm)	(dB)
10	QPSK	1	0	24.45	24.69	24.63	24.67	24.71	26.3	0
10	QPSK	1	25	24.4	24.74	24.59	24.64	24.71		
10	QPSK	1	49	24.57	24.73	24.65	24.69	24.67		
10	QPSK	25	0	23.65	23.91	23.75	23.72	23.81	25.3	1
10	QPSK	25	12	23.73	23.91	23.79	23.83	23.97		
10	QPSK	25	25	23.66	23.91	23.85	23.88	23.97		
10	QPSK	50	0	23.69	23.85	23.75	23.73	23.93		
10	16QAM	1	0	23.9	24.14	23.96	24.03	24.07	25.3	1
10	16QAM	1	25	23.93	24.08	24.03	24.1	24.07		
10	16QAM	1	49	23.8	24.08	23.96	24.15	24		
10	16QAM	25	0	22.81	22.77	22.92	22.71	22.95	24.3	2
10	16QAM	25	12	22.78	22.86	22.84	22.81	23.12		
10	16QAM	25	25	22.6	22.95	22.78	22.85	23.01		
10	16QAM	50	0	22.72	22.99	22

Reduced power for Hotspot on-LAT

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	27.56	27.59	27.65	28.70	18.56	18.59	18.65	19.70
GPRS 1 Tx slot	27.53	27.56	27.62	28.70	18.53	18.56	18.62	19.70
GPRS 2 Tx slots	25.07	24.86	25.03	26.20	19.07	18.86	19.03	20.20
GPRS 3 Tx slots	23.44	23.71	23.83	24.90	19.18	19.45	19.57	20.64
GPRS 4 Tx slots	22.09	22.05	22.08	23.40	19.09	19.05	19.08	20.40
EDGE 1 Tx slot	23.19	23.23	23.36	24.20	14.19	14.23	14.36	15.20
EDGE 2 Tx slots	22.09	22.14	22.22	23.10	16.09	16.14	16.22	17.10
EDGE 3 Tx slots	21.06	21.11	21.18	22.00	16.60	16.85	16.92	17.74
EDGE 4 Tx slots	19.76	19.83	20.02	21.00	16.76	16.83	17.02	18.00

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.8	1752.6	
3GPP Rel 99	AMR 12.2Kbps	18.31	18.36	18.34	19.40	18.65	18.78	18.82	19.80
3GPP Rel 99	RMC 12.2Kbps	18.33	18.38	18.36	19.40	18.68	18.80	18.84	19.80
3GPP Rel 6	HSDPA Subtest-1	17.34	17.44	17.39	18.40	17.69	17.78	17.81	18.80
3GPP Rel 6	HSDPA Subtest-2	17.08	17.44	17.36	18.40	17.69	17.80	17.81	18.80
3GPP Rel 6	HSDPA Subtest-3	16.86	16.91	16.86	17.90	17.20	17.27	17.30	18.30
3GPP Rel 6	HSDPA Subtest-4	16.86	16.95	16.92	17.90	17.20	17.33	17.35	18.30
3GPP Rel 8	DC-HSDPA Subtest-1	17.19	17.24	17.15	18.40	17.50	17.55	17.65	18.80
3GPP Rel 8	DC-HSDPA Subtest-2	16.87	17.20	17.19	18.40	17.49	17.61	17.67	18.80
3GPP Rel 8	DC-HSDPA Subtest-3	16.64	16.75	16.67	17.90	17.01	17.09	17.13	18.30
3GPP Rel 8	DC-HSDPA Subtest-4	16.68	16.80	16.78	17.90	17.01	17.19	17.18	18.30
3GPP Rel 6	HSUPA Subtest-1	17.34	17.42	17.41	18.40	17.68	17.81	17.80	18.80
3GPP Rel 6	HSUPA Subtest-2	16.37	16.45	16.39	17.40	16.70	16.85	16.82	16.80
3GPP Rel 6	HSUPA Subtest-3	14.57	14.62	14.62	16.40	15.66	15.79	15.80	16.80
3GPP Rel 6	HSUPA Subtest-4	15.15	15.23	15.19	16.40	16.31	16.40	16.39	16.80
3GPP Rel 6	HSUPA Subtest-5	17.31	17.41	17.31	18.40	17.67	17.80	17.81	18.80
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.58	15.67	15.62	16.90	16.26	16.32	16.24	17.30

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.8	823.1	
RC1 SO55	22.23	22.40	22.05	23.60	19.84	19.92	19.88	20.90	22.14	22.16	22.09	23.30
RC3 SO55	22.22	22.39	22.04	23.60	19.82	19.90	19.87	20.90	22.11	22.14	22.07	23.30
RC3 SO32 (F+SCH)	22.21	22.33	22.03	23.60	19.81	19.89	19.85	20.90	22.10	22.11	22.04	23.30
RC3 SO32 (+SCH)	22.13	22.23	22.02	23.60	19.80	19.87	19.84	20.90	22.03	22.07	22.01	23.30
RTAP 153.6Kbps	22.23	22.37	22.01	23.60	19.78	19.85	19.82	20.90	22.09	22.12	22.07	23.30
RETAP 4096Bits	22.23	22.36	22.00	23.60	19.78	19.84	19.81	20.90	22.07	22.11	22.05	23.30

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				18700	18900	19100		
Frequency (MHz)				1850	1880	1910		
20	QPSK	1	0	17.78	17.81	17.77		
20	QPSK	1	49	17.73	17.73	17.78	18.8	0
20	QPSK	1	99	17.67	17.72	17.71		
20	QPSK	50	0	17.73	17.74	17.66		
20	QPSK	50	24	17.73	17.69	17.67	18.8	0
20	QPSK	50	50	17.64	17.73	17.70		
20	QPSK	100	0	17.68	17.69	17.68		
20	16QAM	1	0	17.71	17.73	17.76		
20	16QAM	1	49	17.65	17.73	17.75	18.8	0
20	16QAM	1	99	17.79	17.72	17.69		
20	16QAM	50	0	17.71	17.70	17.70		
20	16QAM	50	24	17.72	17.72	17.73	18.8	0
20	16QAM	50	50	17.70	17.69	17.74		
20	16QAM	100	0	17.69	17.71	17.71		
20	64QAM	1	0	17.66	17.78	17.63		
20	64QAM	1	49	17.72	17.61	17.79	18.8	0
20	64QAM	1	99	17.60	17.74	17.70		
20	64QAM	50	0	17.70	17.69	17.70		
20	64QAM	50	24	17.71	17.72	17.70	18.8	0
20	64QAM	50	50	17.64	17.74	17.74		
20	64QAM	100	0	17.67	17.67	17.66		
20	256QAM	1	0	17.56	17.68	17.60		
20	256QAM	1	49	17.43	17.63	17.54	18.8	0
20	256QAM	1	99	17.51	17.59	17.58		
20	256QAM	50	0	17.22	17.22	17.18		
20	256QAM	50	24	17.25	17.33	17.28	18.8	0
20	256QAM	50	50	17.28	17.26	17.27		
20	256QAM	100	0	17.24	17.27	17.23		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	17.52	17.79	17.59		
15	QPSK	1	37	17.70	17.51	17.58	18.8	0
15	QPSK	1	74	17.49	17.42	17.47		
15	QPSK	36	0	17.69	17.66	17.62		
15	QPSK	36	20	17.71	17.69	17.37	18.8	0
15	QPSK	36	39	17.61	17.51	17.65		
15	QPSK	75	0	17.40	17.42	17.39		
15	16QAM	1	0	17.52	17.62	17.55		
15	16QAM	1	37	17.49	17.76	17.63	18.8	0
15	16QAM	1	74	17.74	17.65	17.60		
15	16QAM	36	0	17.73	17.64	17.56		
15	16QAM	36	20	17.77	17.67	17.52	18.8	0
15	16QAM	36	39	17.67	17.71	17.70		
15	16QAM	75	0	17.44	17.61	17.50		
15	64QAM	1	0	17.61	17.63	17.64		
15	64QAM	1	37	17.63	17.38	17.58	18.8	0
15	64QAM	1	74	17.45	17.68	17.66		
15	64QAM	36	0	17.60	17.55	17.71		
15	64QAM	36	20	17.58	17.63	17.49	18.8	0
15	64QAM	36	39	17.54	17.72	17.53		
15	64QAM	75	0	17.51	17.49	17.41		
15	256QAM	1	0	17.34	17.59	17.62		
15	256QAM	1	37	17.45	17.64	17.52	18.8	0
15	256QAM	1	74	17.52	17.41	17.33		
15	256QAM	36	0	17.03	17.66	17.01		
15	256QAM	36	20	17.10	17.30	17.30	18.8	0
15	256QAM	36	39	17.13	17.28	17.20		
15	256QAM	75	0	17.20	17.09	17.24		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	17.54	17.71	17.49		
10	QPSK	1	25	17.46	17.60	17.70	18.8	0
10	QPSK	1	49	17.42	17.55	17.67		
10	QPSK	25	0	17.49	17.58	17.45		
10	QPSK	25	12	17.46	17.49	17.66	18.8	0
10	QPSK	25	25	17.60	17.54	17.51		
10	QPSK	50	0	17.40	17.49	17.53		
10	16QAM	1	0	17.69	17.75	17.70		
10	16QAM	1	25	17.65	17.78	17.64	18.8	0
10	16QAM	1	49	17.55	17.67	17.68		
10	16QAM	25	0	17.69	17.50	17.54		
10	16QAM	25	12	17.68	17.56	17.52	18.8	0
10	16QAM	25	25	17.60	17.79	17.50		
10	16QAM	50	0	17.74	17.53	17.57		
10	64QAM	1	0	17.56	17.79	17.49		
10	64QAM	1	25	17.56	17.61	17.74	18.8	0
10	64QAM	1	49	17.65	17.70	17.60		
10	64QAM	25	0	17.66	17.64	17.63		
10	64QAM	25	12	17.48	17.62	17.50	18.8	0
10	64QAM	25	25	17.59	17.77	17.64		
10	64QAM	50	0	17.43	17.64	17.45		
10	256QAM	1	0	17.36	17.69	17.60		
10	256QAM	1	25	17.20	17.62	17.38	18.8	0
10	256QAM	1	49	17.46	17.42	17.46		
10	256QAM	25	0	17.15	17.11	17.23		
10	256QAM	25	12	17.19	17.16	17.13	18.8	0
10	256QAM	25	25	17.21	17.30	17.05		
10	256QAM	50	0	17.14	17.12	17.01		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	17.57	17.77	17.77		
5	QPSK	1	12	17.57	17.66	17.58	18.8	0
5	QPSK	1	24	17.62	17.45	17.41		
5	QPSK	12	0	17.45	17.44	17.37		
5	QPSK	12	7	17.58	17.46	17.39	18.8	0
5	QPSK	12	13	17.61	17.47	17.56		
5	QPSK	25	0	17.48	17.54	17.45		
5	16QAM	1	0	17.63	17.64	17.75		
5	16QAM	1	12	17.43	17.66	17.74	18.8	0
5	16QAM	1	24	17.72	17.76	17.64		
5	16QAM	12	0	17.76	17.65	17.58		
5	16QAM	12	7	17.49	17.49	17.53	18.8	0
5	16QAM	12	13	17.50	17.57	17.75		
5	16QAM	25	0	17.49	17.66	17.57		
5	64QAM	1	0	17.61	17.70	17.43		
5	64QAM	1	12	17.73	17.44	17.70	18.8	0
5	64QAM	1	24	17.51	17.67	17.53		
5	64QAM	12	0	17.64	17.57	17.75		
5	64QAM	12	7	17.46	17.71	17.73	18.8	0
5	64QAM	12	13	17.64	17.70	17.58		
5	64QAM	25	0	17.52	17.50	17.41		
5	256QAM	1	0	17.43	17.44	17.39		
5	256QAM	1	12	17.44	17.38	17.52	18.8	0
5	256QAM	1	24	17.55	17.52	17.62		
5	256QAM	12	0	17.01	17.19	16.98		
5	256QAM	12	7	17.18	17.15	17.27	18.8	0
5	256QAM	12	13	17.25	17.20	17.18		
5	256QAM	25	0	17.13	17.06	17.17		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	17.62	17.62	17.69		
3	QPSK	1	8	17.45	17.43	17.73	18.8	0
3	QPSK	1	14	17.44	17.43	17.43		
3	QPSK	8	0	17.52	17.57	17.51		
3	QPSK	8	4	17.55	17.48	17.50	18.8	0
3	QPSK	8	7	17.59	17.56	17.52		
3	QPSK	15	0	17.64	17.64	17.60		
3	16QAM	1	0	17.48	17.61	17.59		
3	16QAM	1	8	17.68	17.71	17.56	18.8	0
3	16QAM	1	14	17.67	17.77	17.54		
3	16QAM	8	0	17.69	17.70	17.54		
3	16QAM	8	4	17.74	17.50	17.73	18.8	0
3	16QAM	8	7	17.45	17.79	17.64		
3	16QAM	15	0	17.50	17.75	17.70		
3	64QAM	1	0	17.49	17.61	17.67		
3	64QAM	1	8	17.62	17.51	17.68	18.8	0
3	64QAM	1	14	17.54	17.77	17.48		
3	64QAM	8	0	17.55	17.71	17.60		
3	64QAM	8	4	17.47	17.60	17.63	18.8	0
3	64QAM	8	7	17.64	17.73	17.60		
3	64QAM	15	0	17.68	17.69	17.46		
3	256QAM	1	0	17.43	17.71	17.57		
3	256QAM	1	8	17.41	17.56	17.44	18.8	0
3	256QAM	1	14	17.30	17.60	17.44		
3	256QAM	8	0	17.21	17.17	17.14		
3	256QAM	8	4	17.09	17.16	17.21	18.8	0
3	256QAM	8	7	17.31	17.04	17.31		
3	256QAM	15	0	17.11	17.21	17.15		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	17.71	17.76	17.47		
1.4	QPSK	1	3	17.64	17.66	17.54		
1.4	QPSK	1	5	17.44	17.70	17.69	18.8	0
1.4	QPSK	3	0	17.64	17.70	17.37		
1.4	QPSK	3	1	17.68	17.60	17.63		
1.4	QPSK	3	3	17.37	17.53	17.40		
1.4	QPSK	6	0	17.60	17.58	17.58	18.8	0
1.4	16QAM	1	0	17.50	17.71	17.51		
1.4	16QAM	1	3	17.44	17.50	17.51		
1.4	16QAM	1	5	17.66	17.49	17.61	18.8	0
1.4	16QAM	3	0	17.47	17.71	17.54		
1.4	16QAM	3	1	17.68	17.70	17.49		
1.4	16QAM	3	3	17.57	17.54	17.64		
1.4	16QAM	6	0	17.51	17.73	17.61	18.8	0
1.4	64QAM	1	0	17.57	17.79	17.38		
1.4	64QAM	1	3	17.54	17.58	17.62		
1.4	64QAM	1	5	17.64	17.77	17.46	18.8	0
1.4	64QAM	3	0	17.63	17.73	17.74		
1.4	64QAM	3	1	17.55	17.77	17.73		
1.4	64QAM	3	3	17.46	17.64	17.77		
1.4	64QAM	6	0	17.71	17.48	17.70	18.8	0
1.4	256QAM	1	0	17.42	17.72	17.36		
1.4	256QAM	1	3	17.36	17.64	17.55		
1.4	256QAM	1	5	17.49	17.51	17.41	18.8	0
1.4	256QAM	3	0	17.17	17.16	17.00		
1.4	256QAM	3	1	17.24	17.32	17.18		
1.4	256QAM	3	3	17.14	17.11	17.15		
1.4	256QAM	6	0	17.27	17.17	17.00	18.8	0

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				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	18.17	18.25	18.19		
20	QPSK	1	49	18.01	18.07	18.00	19.2	0
20	QPSK	1	99	17.97	17.99	17.90		
20	QPSK	50	0	18.20	18.22	18.20		
20	QPSK	50	24	18.05	18.19	18.14	19.2	0
20	QPSK	50	50	18.15	18.16	18.10		
20	QPSK	100	0	18.02	18.15	18.11		
20	16QAM	1	0	18.03	18.06	18.08		
20	16QAM	1	49	18.06	18.04	18.02	19.2	0
20	16QAM	1	99	18.04	18.06	18.06		
20	16QAM	50	0	18.05	18.08	18.05		
20	16QAM	50	24	18.06	18.00	18.16	19.2	0
20	16QAM	50	50	18.17	18.17	18.12		
20	16QAM	100	0	18.03	18.17	18.11		
20	64QAM	1	0	18.03	18.00	18.02		
20	64QAM	1	49	18.15	18.08	18.07	19.2	0
20	64QAM	1	99	18.02	18.08	18.04		
20	64QAM	50	0	18.08	18.00	18.06		
20	64QAM	50	24	18.09	18.03	18.18	19.2	0
20	64QAM	50	50	18.01	18.19	18.14		
20	64QAM	100	0	18.06	18.19	18.16		
20	256QAM	1	0	17.70	17.77	17.51		
20	256QAM	1	49	17.58	17.58	17.47	19.2	0
20	256QAM	1	99	17.54	17.56	17.46		
20	256QAM	50	0	17.70	17.70	17.65		
20	256QAM	50	24	17.72	17.69	17.55	19.2	0
20	256QAM	50	50	17.68	17.64	17.59		
20	256QAM	100	0	17.71	17.62	17.56		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	18.11	18.05	17.96		
15	QPSK	1	37	17.83	17.95	17.89	19.2	0
15	QPSK	1	74	17.85	17.88	17.64		
15	QPSK	36	0	18.02	17.98	18.14		
15	QPSK	36	20	18.05	18.17	18.09	19.2	0
15	QPSK	36	39	17.92	17.91	17.85		
15	QPSK	75	0	17.94	18.14	17.99		
15	16QAM	1	0	18.07	18.06	17.87		
15	16QAM	1	37	17.96	17.84	17.79	19.2	0
15	16QAM	1	74	18.08	18.03	18.01		
15	16QAM	36	0	17.96	18.02	17.94		
15	16QAM	36	20	18.09	17.80	17.94	19.2	0
15	16QAM	36	39	18.19	18.06	17.93		
15	16QAM	75	0	17.94	18.02	18.13		
15	64QAM	1	0	17.98	17.99	17.91		
15	64QAM	1	37	18.17	17.87	17.99	19.2	0
15	64QAM	1	74	17.97	18.05	17.95		
15	64QAM	36	0	17.86	17.77	18.04		
15	64QAM	36	20	18.06	18.06	17.96	19.2	0
15	64QAM	36	39	17.81	18.08	18.18		
15	64QAM	75	0	17.89	18.01	18.10		
15	256QAM	1	0	17.49	17.79	17.48		
15	256QAM	1	37	17.34	17.55	17.42	19.2	0
15	256QAM	1	74	17.34	17.58	17.32		
15	256QAM	36	0	17.46	17.75	17.41		
15	256QAM	36	20	17.60	17.60	17.33	19.2	0
15	256QAM	36	39	17.69	17.69	17.64		
15	256QAM	75	0	17.50	17.46	17.60		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	18.06	18.07	17.93		
10	QPSK	1	25	17.80	17.85	17.70	19.2	0
10	QPSK	1	49	17.86	17.98	17.73		
10	QPSK	25	0	17.96	18.01	17.98		
10	QPSK	25	12	18.02	18.06	17.89	19.2	0
10	QPSK	25	25	18.12	17.96	18.09		
10	QPSK	50	0	17.79	18.05	18.06		
10	16QAM	1	0	17.82	18.00	18.02		
10	16QAM	1	25	17.84	17.85	17.81	19.2	0
10	16QAM	1	49	18.05	17.96	18.02		
10	16QAM	25	0	18.00	18.11	18.06		
10	16QAM	25	12	17.98	17.76	17.92	19.2	0
10	16QAM	25	25	17.93	17.92	18.13		
10	16QAM	50	0	17.96	18.14	18.07		
10	64QAM	1	0	17.90	17.99	18.06		
10	64QAM	1	25	18.08	17.96	17.98	19.2	0
10	64QAM	1	49	17.78	18.01	17.97		
10	64QAM	25	0	18.09	17.87	17.99		
10	64QAM	25	12	18.07	18.08	18.06	19.2	0
10	64QAM	25	25	17.92	18.12	17.91		
10	64QAM	50	0	18.04	18.03	18.01		
10	256QAM	1	0	17.49	17.69	17.31		
10	256QAM	1	25	17.52	17.46	17.29	19.2	0
10	256QAM	1	49	17.51	17.52	17.39		
10	256QAM	25	0	17.57	17.71	17.68		
10	256QAM	25	12	17.52	17.56	17.53	19.2	0
10	256QAM	25	25	17.51	17.52	17.64		
10	256QAM	50	0	17.65	17.63	17.42		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	18.14	18.10	18.12		
5	QPSK	1	12	17.74	18.04	17.77	19.2	0
5	QPSK	1	24	17.96	17.93	17.84		
5	QPSK	12	0	17.97	18.18	18.02		
5	QPSK	12	7	18.05	18.13	18.11	19.2	0
5	QPSK	12	13	18.09	17.91	17.88		
5	QPSK	25	0	17.86	18.12	18.04		
5	16QAM	1	0	18.04	17.94	18.10		
5	16QAM	1	12	17.85	17.99	17.85	19.2	0
5	16QAM	1	24	18.00	18.02	17.83		
5	16QAM	12	0	17.85	17.94	17.80		
5	16QAM	12	7	18.07	17.78	17.91	19.2	0
5	16QAM	12	13	18.01	18.09	18.08		
5	16QAM	25	0	18.08	18.12	17.87		
5	64QAM	1	0	17.96	17.90	17.87		
5	64QAM	1	12	17.99	18.01	17.97	19.2	0
5	64QAM	1	24	18.00	18.08	17.97		
5	64QAM	12	0	18.05	17.81	17.94		
5	64QAM	12	7	17.93	18.01	18.15	19.2	0
5	64QAM	12	13	17.78	18.11	17.94		
5	64QAM	25	0	18.05	18.19	18.19		
5	256QAM	1	0	17.46	17.67	17.26		
5	256QAM	1	12	17.63	17.36	17.26	19.2	0
5	256QAM	1	24	17.55	17.48	17.23		
5	256QAM	12	0	17.65	17.66	17.52		
5	256QAM	12	7	17.70	17.54	17.52	19.2	0
5	256QAM	12	13	17.53	17.61	17.45		
5	256QAM	25	0	17.49	17.64	17.39		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	18.05	17.96	18.06		
3	QPSK	1	8	17.87	17.82	17.95	19.2	0
3	QPSK	1	14	17.92	17.80	17.66		
3	QPSK	8	0	18.09	18.15	18.13		
3	QPSK	8	4	17.89	17.96	18.08	19.2	0
3	QPSK	8	7	18.12	18.00	17.85		
3	QPSK	15	0	17.87	17.96	18.09		
3	16QAM	1	0	18.05	17.92	18.08		
3	16QAM	1	8	17.83	17.84	17.98	19.2	0
3	16QAM	1	14	18.04	17.96	17.91		
3	16QAM	8	0	17.82	17.96	17.82		
3	16QAM	8	4	17.92	17.86	18.10	19.2	0
3	16QAM	8	7	18.09	18.11	17.91		
3	16QAM	15	0	17.82	18.18	18.12		
3	64QAM	1	0	17.95	17.92	18.06		
3	64QAM	1	8	18.02	18.09	17.85	19.2	0
3	64QAM	1	14	18.05	18.00	17.92		
3	64QAM	8	0	17.85	17.96	18.02		
3	64QAM	8	4	18.10	17.97	18.14	19.2	0
3	64QAM	8	7	17.80	18.10	18.05		
3	64QAM	15	0	18.09	17.96	18.11		
3	256QAM	1	0	17.55	17.63	17.45		
3	256QAM	1	8	17.34	17.57	17.27	19.2	0
3	256QAM	1	14	17.44	17.34	17.33		
3	256QAM	8	0	17.74	17.69	17.53		
3	256QAM	8	4	17.51	17.48	17.58	19.2	0
3	256QAM	8	7	17.47	17.66	17.59		
3	256QAM	15	0	17.71	17.45	17.47		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	18.08	18.00	17.97		
1.4	QPSK	1	3	17.98	17.82	17.78		
1.4	QPSK	1	5	17.78	17.98	17.89	19.2	0
1.4	QPSK	3	0	18.16	18.11	18.18		
1.4	QPSK	3	1	17.92	18.01	17.89		
1.4	QPSK	3	3	18.03	18.12	18.03		
1.4	QPSK	6	0	17.74	17.90	17.98	19.2	0
1.4	16QAM	1	0	17.82	18.05	18.07		
1.4	16QAM	1	3	18.06	18.04	18.04		
1.4	16QAM	1	5	18.08	17.85	17.84	19.2	0
1.4	16QAM	3	0	17.86	17.97	18.09		
1.4	16QAM	3	1	17.82	17.98	18.11		
1.4	16QAM	3	3	17.98	18.15	18.13		
1.4	16QAM	6	0	17.98	18.17	18.10	19.2	0
1.4	64QAM	1	0	17.81	17.77	17.98		
1.4	64QAM	1	3	18.06	18.02	17.89		
1.4	64QAM	1	5	17.89	18.13	17.88	19.2	0
1.4	64QAM	3	0	17.96	18.00	17.85		
1.4	64QAM	3	1	17.96	18.07	18.09		
1.4	64QAM	3	3	17.85	18.12	17.93		
1.4	64QAM	6	0	17.93	17.97	18.01	19.2	0
1.4	256QAM	1	0	17.56	17.60	17.38		
1.4	256QAM	1	3	17.54	17.42	17.46		
1.4	256QAM	1	5	17.52	17.40	17.45	19.2	0
1.4	256QAM	3	0	17.57	17.71	17.53		
1.4	256QAM	3	1	17.70	17.73	17.60		
1.4	256QAM	3	3	17.68	17.44	17.42		
1.4	256QAM	6	0	17.51	17.54	17.32	19.2	0

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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	18.41	18.59	18.56		
20	QPSK	1	49	18.46	18.62	18.62	19.9	0
20	QPSK	1	99	18.59	18.65	18.73		
20	QPSK	50	0	18.51	18.62	18.66		
20	QPSK	50	24	18.61	18.53	18.69	19.9	0
20	QPSK	50	50	18.64	18.55	18.58		
20	QPSK	100	0	18.61	18.52	18.67		
20	16QAM	1	0	18.50	18.53	18.59		
20	16QAM	1	49	18.50	18.51	18.57

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	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	17.69	17.81	17.65	18.8	0
20	QPSK	1	49	17.63	17.67	17.61		
20	QPSK	1	99	17.56	17.54	17.54		
20	QPSK	50	0	17.64	17.76	17.77		
20	QPSK	50	24	17.61	17.79	17.75		
20	QPSK	50	50	17.76	17.61	17.76		
20	QPSK	100	0	17.77	17.79	17.74		
20	16QAM	1	0	17.71	17.71	17.77		
20	16QAM	1	49	17.72	17.78	17.70	18.8	0
20	16QAM	1	99	17.60	17.66	17.67		
20	16QAM	50	0	17.66	17.61	17.61		
20	16QAM	50	24	17.62	17.61	17.77	18.8	0
20	16QAM	50	50	17.77	17.61	17.60		
20	16QAM	100	0	17.79	17.74	17.75		
20	64QAM	1	0	17.65	17.68	17.65		
20	64QAM	1	49	17.60	17.66	17.67	18.8	0
20	64QAM	1	99	17.72	17.75	17.73		
20	64QAM	50	0	17.63	17.61	17.79		
20	64QAM	50	24	17.61	17.79	17.62	18.8	0
20	64QAM	50	50	17.77	17.62	17.60		
20	64QAM	100	0	17.78	17.74	17.76		
20	256QAM	1	0	17.58	17.58	17.40		
20	256QAM	1	49	17.47	17.44	17.24	18.8	0
20	256QAM	1	99	17.45	17.52	17.30		
20	256QAM	50	0	17.37	17.57	17.37		
20	256QAM	50	24	17.46	17.60	17.40	18.8	0
20	256QAM	50	50	17.48	17.62	17.36		
20	256QAM	100	0	17.51	17.64	17.29		
Channel				26115	26340	26515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	17.69	17.63	17.63	18.8	0
15	QPSK	1	37	17.57	17.61	17.31		
15	QPSK	1	74	17.32	17.45	17.28		
15	QPSK	36	0	17.40	17.52	17.73		
15	QPSK	36	20	17.34	17.76	17.57	18.8	0
15	QPSK	36	39	17.62	17.60	17.67		
15	QPSK	75	0	17.67	17.79	17.67		
15	16QAM	1	0	17.46	17.52	17.78		
15	16QAM	1	37	17.64	17.54	17.66	18.8	0
15	16QAM	1	74	17.46	17.67	17.66		
15	16QAM	36	0	17.61	17.55	17.60		
15	16QAM	36	20	17.49	17.63	17.70	18.8	0
15	16QAM	36	39	17.55	17.53	17.43		
15	16QAM	75	0	17.81	17.75	17.56		
15	64QAM	1	0	17.55	17.47	17.54		
15	64QAM	1	37	17.46	17.47	17.70	18.8	0
15	64QAM	1	74	17.53	17.59	17.60		
15	64QAM	36	0	17.55	17.66	17.81		
15	64QAM	36	20	17.66	17.72	17.37	18.8	0
15	64QAM	36	39	17.65	17.55	17.52		
15	64QAM	75	0	17.73	17.57	17.71		
15	256QAM	1	0	17.54	17.33	17.29		
15	256QAM	1	37	17.35	17.42	17.02	18.8	0
15	256QAM	1	74	17.31	17.54	17.20		
15	256QAM	36	0	17.12	17.35	17.36		
15	256QAM	36	20	17.50	17.48	17.21	18.8	0
15	256QAM	36	39	17.23	17.54	17.20		
15	256QAM	75	0	17.39	17.51	17.15		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	17.60	17.59	17.42	18.8	0
10	QPSK	1	25	17.61	17.48	17.57		
10	QPSK	1	49	17.40	17.33	17.51		
10	QPSK	25	0	17.61	17.72	17.60		
10	QPSK	25	12	17.53	17.65	17.62	18.8	0
10	QPSK	25	25	17.56	17.49	17.57		
10	QPSK	50	0	17.70	17.76	17.65		
10	16QAM	1	0	17.66	17.64	17.73		
10	16QAM	1	25	17.47	17.67	17.51	18.8	0
10	16QAM	1	49	17.54	17.53	17.63		
10	16QAM	25	0	17.65	17.49	17.51		
10	16QAM	25	12	17.51	17.38	17.52	18.8	0
10	16QAM	25	25	17.75	17.52	17.40		
10	16QAM	50	0	17.54	17.53	17.70		
10	64QAM	1	0	17.41	17.55	17.51		
10	64QAM	1	25	17.52	17.71	17.42	18.8	0
10	64QAM	1	49	17.60	17.51	17.52		
10	64QAM	25	0	17.60	17.53	17.74		
10	64QAM	25	12	17.57	17.75	17.53	18.8	0
10	64QAM	25	25	17.68	17.37	17.51		
10	64QAM	50	0	17.61	17.59	17.79		
10	256QAM	1	0	17.57	17.41	17.37		
10	256QAM	1	25	17.39	17.30	17.10	18.8	0
10	256QAM	1	49	17.26	17.48	17.10		
10	256QAM	25	0	17.40	17.35	17.32		
10	256QAM	25	12	17.36	17.36	17.19	18.8	0
10	256QAM	25	25	17.32	17.51	17.18		
10	256QAM	50	0	17.35	17.52	17.26		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	17.56	17.74	17.54	18.8	0
5	QPSK	1	12	17.54	17.48	17.47		
5	QPSK	1	24	17.48	17.29	17.52		
5	QPSK	12	0	17.47	17.46	17.64		
5	QPSK	12	7	17.31	17.78	17.66	18.8	0
5	QPSK	12	13	17.51	17.53	17.52		
5	QPSK	25	0	17.66	17.74	17.64		
5	16QAM	1	0	17.68	17.76	17.66		
5	16QAM	1	12	17.65	17.76	17.56	18.8	0
5	16QAM	1	24	17.61	17.44	17.69		
5	16QAM	12	0	17.70	17.51	17.55		
5	16QAM	12	7	17.50	17.66	17.76	18.8	0
5	16QAM	12	13	17.73	17.40	17.47		
5	16QAM	25	0	17.77	17.79	17.70		
5	64QAM	1	0	17.51	17.57	17.42		
5	64QAM	1	12	17.45	17.47	17.52	18.8	0
5	64QAM	1	24	17.76	17.64	17.61		
5	64QAM	12	0	17.61	17.53	17.54		
5	64QAM	12	7	17.48	17.57	17.49	18.8	0
5	64QAM	12	13	17.78	17.59	17.48		
5	64QAM	25	0	17.77	17.50	17.65		
5	256QAM	1	0	17.52	17.35	17.22		
5	256QAM	1	12	17.35	17.38	17.28	18.8	0
5	256QAM	1	24	17.29	17.29	17.35		
5	256QAM	12	0	17.33	17.32	17.42		
5	256QAM	12	7	17.27	17.54	17.18	18.8	0
5	256QAM	12	13	17.33	17.42	17.22		
5	256QAM	25	0	17.36	17.59	17.34		
Channel				26055	26340	26575	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	17.48	17.54	17.38	18.8	0
3	QPSK	1	8	17.40	17.57	17.34		
3	QPSK	1	14	17.55	17.52	17.43		
3	QPSK	8	0	17.41	17.70	17.52		
3	QPSK	8	4	17.56	17.61	17.50	18.8	0
3	QPSK	8	7	17.55	17.40	17.54		
3	QPSK	15	0	17.54	17.64	17.45		
3	16QAM	1	0	17.50	17.74	17.76	18.8	0
3	16QAM	1	8	17.51	17.62	17.56		
3	16QAM	1	14	17.58	17.70	17.54		
3	16QAM	8	0	17.48	17.42	17.60		
3	16QAM	8	4	17.62	17.42	17.56	18.8	0
3	16QAM	8	7	17.69	17.52	17.65		
3	16QAM	15	0	17.77	17.49	17.51		
3	64QAM	1	0	17.45	17.64	17.45	18.8	0
3	64QAM	1	8	17.63	17.58	17.72		
3	64QAM	1	14	17.60	17.56	17.59		
3	64QAM	8	0	17.63	17.42	17.81	18.8	0
3	64QAM	8	4	17.54	17.72	17.52		
3	64QAM	8	7	17.63	17.59	17.64		
3	64QAM	15	0	17.78	17.66	17.65		
3	256QAM	1	0	17.62	17.44	17.24	18.8	0
3	256QAM	1	8	17.40	17.24	17.28		
3	256QAM	1	14	17.31	17.34	17.05		
3	256QAM	8	0	17.19	17.43	17.17	18.8	0
3	256QAM	8	4	17.50	17.38	17.35		
3	256QAM	8	7	17.37	17.58	17.30		
3	256QAM	15	0	17.50	17.67	17.04		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	17.53	17.57	17.49	18.8	0
1.4	QPSK	1	3	17.54	17.66	17.50		
1.4	QPSK	1	5	17.41	17.39	17.41		
1.4	QPSK	3	0	17.58	17.75	17.66		
1.4	QPSK	3	1	17.58	17.66	17.45		
1.4	QPSK	3	3	17.62	17.59	17.52		
1.4	QPSK	6	0	17.68	17.79	17.70	18.8	0
1.4	16QAM	1	0	17.60	17.55	17.75	18.8	0
1.4	16QAM	1	3	17.61	17.59	17.55		
1.4	16QAM	1	5	17.36	17.44	17.61		
1.4	16QAM	3	0	17.49	17.60	17.63		
1.4	16QAM	3	1	17.61	17.41	17.68		
1.4	16QAM	3	3	17.55	17.63	17.36		
1.4	16QAM	6	0	17.71	17.66	17.64	18.8	0
1.4	64QAM	1	0	17.44	17.56	17.62	18.8	0
1.4	64QAM	1	3	17.47	17.53	17.58		
1.4	64QAM	1	5	17.60	17.62	17.67		
1.4	64QAM	3	0	17.44	17.59	17.55		
1.4	64QAM	3	1	17.47	17.76	17.52		
1.4	64QAM	3	3	17.57	17.39	17.36		
1.4	64QAM	6	0	17.73	17.50	17.73	18.8	0
1.4	256QAM	1	0	17.40	17.37	17.33	18.8	0
1.4	256QAM	1	3	17.40	17.30	17.04		
1.4	256QAM	1	5	17.38	17.49	17.12		
1.4	256QAM	3	0	17.25	17.37	17.41		
1.4	256QAM	3	1	17.40	17.50	17.21		
1.4	256QAM	3	3	17.25	17.44	17.15		
1.4	256QAM	6	0	17.36	17.67	17.15	18.8	0

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)				821.5	831.5	841.5		
15	QPSK	1	0	21.31	21.26	21.41	22.2	0
15	QPSK	1	37	21.28	21.25	21.21		
15	QPSK	1	74	21.30	21.23	21.15		
15	QPSK	36	0	21.32	21.33	21.37		
15	QPSK	36	20	21.36	21.35	21.39		
15	QPSK	36	39	21.31	21.32	21.38		
15	QPSK	75	0	21.32	21.33	21.36		
15	16QAM	1	0	21.30	21.33	21.33		
15	16QAM	1	37	21.38	21.32	21.33	22.2	0
15	16QAM	1	74	21.31	21.33	21.37		
15	16QAM	36	0	21.25	21.20	21.22		
15	16QAM	36	20	21.28	21.16	21.23	22.2	0
15	16QAM	36	39	21.23	21.20	21.17		
15	16QAM	75	0	21.30	21.18	21.18		
15	64QAM	1	0	21.28	21.28	21.24		
15	64QAM	1	37	21.29	21.31	21.31	21.8	0.4
15	64QAM	1	74	21.25	21.26	21.15		
15	64QAM	36	0	19.77	19.77	19.76		
15	64QAM	36	20	19.82	19.69	19.84	20.8	1.4
15	64QAM	36	39	19.74	19.77	19.68		
15	64QAM	75	0	19.78	19.67	19.68		
15	256QAM	1	0	18.00	18.11	18.05		
15	256QAM	1	37	17.98	18.08	18.01	19.3	2.9
15	256QAM	1	74	18.02	18.03	18.02		
15	256QAM	36	0	17.86	17.96	17.95		
15	256QAM	36	20	17.87	17.81	17.93	19.3	2.9
15	256QAM	36	39	17.94	17.83	17.91		
15	256QAM	75	0	17.97	17.88	17.90		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	21.30	21.23	21.26	22.2	0
10	QPSK	1	25	21.05	21.10	21.11		
10	QPSK	1	49	21.26	21.12	21.09		
10	QPSK	25	0	21.32	21.12	21.31	22.2	0
10	QPSK	25	12	21.22	21.07	21.17		
10	QPSK	25	25	21.03	21.32	21.21		
10	QPSK	50	0	21.31	21.11	21.17		
10	16QAM	1	0	21.30	21.23	21.11		
10	16QAM	1	25	21.31	21.11	21.30	22.2	0
10	16QAM	1	49	21.20	21.30	21.24		
10	16QAM	25	0	21.12	21.17	21.15		
10	16QAM	25	12	21.30	21.06	20.99	22.2	0
10	16QAM	25	25	21.16	21.23	21.00		
10	16QAM	50	0	21.34	21.21	21.15		
10	64QAM	1	0	21.29	21.33	20.99		
10	64QAM	1	25	21.06	21.31	21.28	21.8	0.4
10	64QAM	1	49	21.06	21.31	21.12		
10	64QAM	25	0	19.80	19.53	19.76		
10	64QAM	25	12	19.77	19.73	19.62	20.8	1.4
10	64QAM	25	25	19.59	19.57	19.64		
10	64QAM	50	0	19.64	19.43	19.65		
10	256QAM	1	0	17.94	18.11	17.89		
10	256QAM	1	25	17.73	17.95	17.98	19.3	2.9
10	256QAM	1	49	17.94	17.83	17.93		
10	256QAM	25	0	17.65	17.76	17.97		
10	256QAM	25	12	17.90	17.72	17.75	19.3	2.9
10	256QAM	25	25	17.86	17.82	17.66		
10	256QAM	50	0	17.78	17.75	17.78		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	21.23	21.06	21.29	22.2	0
5	QPSK	1	12	21.27	20.97	21.06		
5	QPSK	1	24	21.08	21.09	20.86		
5	QPSK	12	0	21.10	21.09	21.13	22.2	0
5	QPSK	12	7	21.06	21.19	21.09		
5	QPSK	12	13	21.06	21.24	21.15		
5	QPSK	25	0	21.06	21.15	21.24		
5	16QAM	1	0	21.31	21.18	21.34	22.2	0
5	16QAM	1	12	21.23	21.15	21.35		
5	16QAM	1	24	21.29	21.12	21.27		
5	16QAM	12	0	21.03	21.05	20.97	22.2	0
5	16QAM	12	7	21.18	21.19	21.19		
5	16QAM	12	13	21.14	21.11	21.10		
5	16QAM	25	0	21.12	21.03	21.08		
5	64QAM	1	0	21.30	21.17	21.06	21.8	0.4
5	64QAM	1	12	21.19	21.30	21.23		
5	64QAM	1	24	21.27	21.14	20.97		
5	64QAM	12	0	19.69	19.82	19.61	20.8	1.4
5	64QAM	12	7	19.58	19.73	19.73		
5	64QAM	12	13	19.63	19.80	19.57		
5	64QAM	25	0	19.77	19.46	19.49		
5	256QAM	1	0	17.88	17.95	17.99	19.3	2.9
5	256QAM	1	12	17.98	18.08	17.98		
5	256QAM	1	24	17.91	18.07	17.84		
5	256QAM	12	0	17.90	17.77	17.80	19.3	2.9
5	256QAM	12	7	17.67	17.71	17.81		
5	256QAM	12	13	17.76	17.74	17.94		
5	256QAM	25	0	17.97	17.75	17.94		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	21.16	21.08	21.17	22.2	0
3	QPSK	1	8	21.20	21.21	20.99		
3	QPSK	1	14	21.04	21.03	21.10		
3	QPSK	8	0	21.19	21.23	21.07	22.2	0
3	QPSK	8	4	21.20	21.32	21.35		
3	QPSK	8	7	21.01	21.24	21.35		
3	QPSK	15	0	21.13	21.16	21.07		
3	16QAM	1	0	21.07	21.20	21.36	22.2	0
3	16QAM	1	8	21.39	21.11	21.27		
3	16QAM	1	14	21.28	21.23	21.34		
3	16QAM	8	0	21.04	21.02	21.12	22.2	0
3	16QAM	8	4	21.15	21.00	21.01		
3	16QAM	8	7	21.00	21.11	21.12		
3	16QAM	15	0	21.24	20.99	21.22		
3	64QAM	1	0	21.03	21.20	21.15	21.8	0.4
3	64QAM	1	8	21.15	21.07	21.30		
3	64QAM	1	14	21.28	21.05	20.92		
3	64QAM	8	0	19.72	19.75	19.81	20.8	1.4
3	64QAM	8	4	19.79	19.73	19.67		
3	64QAM	8	7	19.69	19.67	19.45		
3	64QAM	15	0	19.67	19.59	19.62		
3	256QAM	1	0	17.81	18.15	18.03	19.3	2.9
3	256QAM	1	8	17.86	17.97	18.06		
3	256QAM	1	14	17.99	17.87	17.93		
3	256QAM	8	0	17.91	17.75	17.96	19.3	2.9
3	256QAM	8	4	17.71	17.62	17.77		
3	256QAM	8	7	17.92	17.59	17.91		
3	256QAM	15	0	17.91	17.87	17.75		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	21.01	20.96	21.33	22.2	0
1.4	QPSK	1	3	21.23	21.15	21.05		
1.4	QPSK	1	5	21.22	20.93	20.99		
1.4	QPSK	3	0	21.26	21.22	21.25		
1.4	QPSK	3	1	21.31	21.26	21.24		
1.4	QPSK	3	3	21.08	21.22	21.38		
1.4	QPSK	6	0	21.11	21.32	21.08	22.2	0
1.4	16QAM	1	0	21.14	21.28	21.17	22.2	0
1.4	16QAM	1	3	21.36	21.37	21.30		
1.4	16QAM	1	5	21.07	21.25	21.28		
1.4	16QAM	3	0	21.02	21.19	21.16		
1.4	16QAM	3	1	21.07	21.08	21.07		
1.4	16QAM	3	3	21.13	21.16	21.22		
1.4	16QAM	6	0	21.35	21.12	21.19	22.2	0
1.4	64QAM	1	0	21.28	21.24	21.22	21.8	0.4
1.4	64QAM	1	3	21.24	21.26	21.18		
1.4	64QAM	1	5	21.24	21.29	21.00		
1.4	64QAM	3	0	20.32	20.18	20.15		
1.4	64QAM	3	1	20.18	20.12	20.15		
1.4	64QAM	3	3	20.29	20.23	20.09		
1.4	64QAM	6	0	19.76	19.42	19.54	20.8	1.4
1.4	256QAM	1	0	17.99	18.15	18.08	19.3	2.9
1.4	256QAM	1	3	17.86	18.07	17.76		
1.4	256QAM	1	5	17.96	17.91	17.90		
1.4	256QAM	3	0	17.69	17.77	17.90		
1.4	256QAM	3	1	17.71	17.82	17.74		
1.4	256QAM	3	3	17.86	17.71	17.68		
1.4	256QAM	6	0	17.74	17.86	17.66	19.3	2.9

Band 30

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					27710			
Frequency (MHz)					2310			
10	QPSK	1	0		17.17			
10	QPSK	1	25		17.06		18.5	0
10	QPSK	1	49		17.04			
10	QPSK	25	0		17.12			
10	QPSK	25	12		17.16		18.5	0
10	QPSK	25	25		17.05			
10	QPSK	50	0		17.15			
10	16QAM	1	0		17.09			
10	16QAM	1	25		17.11		18.5	0
10	16QAM	1	49		17.07			
10	16QAM	25	0		17.10			
10	16QAM	25	12		17.00		18.5	0
10	16QAM	25	25		17.08			
10	16QAM	50	0		17.05			
10	64QAM	1	0		17.01			
10	64QAM	1	25		17.11		18.5	0
10	64QAM	1	49		17.15			
10	64QAM	25	0		17.05			
10	64QAM	25	12		17.13		18.5	0
10	64QAM	25	25		17.09			
10	64QAM	50	0		17.00			
10	256QAM	1	0		16.83			
10	256QAM	1	25		16.98		18.5	0
10	256QAM	1	49		17.05			
10	256QAM	25	0		16.91			
10	256QAM	25	12		16.98		18.5	0
10	256QAM	25	25		16.92			
10	256QAM	50	0		16.88			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	17.12	17.08	17.14		
5	QPSK	1	12	16.87	16.91	16.79	18.5	0
5	QPSK	1	24	16.90	16.84	16.85		
5	QPSK	12	0	16.88	16.85	16.92		
5	QPSK	12	7	17.00	17.04	16.90	18.5	0
5	QPSK	12	13	16.76	16.94	16.80		
5	QPSK	25	0	17.07	17.07	16.86		
5	16QAM	1	0	16.97	17.02	16.87		
5	16QAM	1	12	16.87	17.04	16.99	18.5	0
5	16QAM	1	24	16.94	17.05	17.00		
5	16QAM	12	0	17.15	17.00	17.10		
5	16QAM	12	7	16.83	16.86	16.85	18.5	0
5	16QAM	12	13	17.07	16.88	16.92		
5	16QAM	25	0	17.03	17.09	17.07		
5	64QAM	1	0	16.86	17.06	16.93		
5	64QAM	1	12	16.98	17.11	16.97	18.5	0
5	64QAM	1	24	17.12	17.02	16.99		
5	64QAM	12	0	16.93	17.08	16.96		
5	64QAM	12	7	17.08	16.95	17.07	18.5	0
5	64QAM	12	13	16.94	16.84	16.94		
5	64QAM	25	0	16.95	17.00	17.05		
5	256QAM	1	0	16.82	16.86	16.67		
5	256QAM	1	12	16.86	16.77	16.90	18.5	0
5	256QAM	1	24	16.88	16.92	16.85		
5	256QAM	12	0	16.95	16.69	16.88		
5	256QAM	12	7	17.03	16.90	16.86	18.5	0
5	256QAM	12	13	16.86	16.92	16.88		
5	256QAM	25	0	16.75	16.76	16.74		

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				132072	132322	132572		
Frequency (MHz)				1722	1745	1770		
20	QPSK	1	0	18.17	18.34	18.27		
20	QPSK	1	49	18.10	18.17	18.16	19.2	0
20	QPSK	1	99	18.00	18.07	18.05		
20	QPSK	50	0	18.22	18.29	18.25		
20	QPSK	50	24	18.27	18.26	18.24	19.2	0
20	QPSK	50	50	18.19	18.25	18.26		
20	QPSK	100	0	18.25	18.28	18.23		
20	16QAM	1	0	18.15	18.10	18.15		
20	16QAM	1	49	18.13	18.12	18.11	19.2	0
20	16QAM	1	99	18.01	18.04	18.00		
20	16QAM	50	0	18.18	18.28	18.28		
20	16QAM	50	24	18.26	18.24	18.18	19.2	0
20	16QAM	50	50	18.17	18.22	18.14		
20	16QAM	100	0	18.19	18.21	18.18		
20	64QAM	1	0	18.02	18.11	18.14		
20	64QAM	1	49	18.02	18.08	18.12	19.2	0
20	64QAM	1	99	18.25	18.24	18.18		
20	64QAM	50	0	18.20	18.29	18.10		
20	64QAM	50	24	18.26	18.26	18.16	19.2	0
20	64QAM	50	50	18.20	18.25	18.17		
20	64QAM	100	0	18.23	18.23	18.11		
20	256QAM	1	0	17.86	17.69	17.77		
20	256QAM	1	49	17.79	17.79	17.83	19.2	0
20	256QAM	1	99	17.73	17.83	17.77		
20	256QAM	50	0	17.57	17.61	17.61		
20	256QAM	50	24	17.70	17.67	17.67	19.2	0
20	256QAM	50	50	17.68	17.59	17.62		
20	256QAM	100	0	17.67	17.58	17.63		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	17.96	18.15	18.03		
15	QPSK	1	37	17.98	18.14	17.86	19.2	0
15	QPSK	1	74	17.70	17.77	17.79		
15	QPSK	36	0	17.92	18.17	18.22		
15	QPSK	36	20	17.97	18.16	18.11	19.2	0
15	QPSK	36	39	17.99	18.13	18.20		
15	QPSK	75	0	18.11	18.02	18.06		
15	16QAM	1	0	17.94	18.02	18.06		
15	16QAM	1	37	18.03	17.87	17.94	19.2	0
15	16QAM	1	74	17.93	18.03	17.94		
15	16QAM	36	0	18.16	18.03	18.23		
15	16QAM	36	20	18.29	18.07	18.06	19.2	0
15	16QAM	36	39	18.04	18.22	18.08		
15	16QAM	75	0	18.21	17.96	18.21		
15	64QAM	1	0	17.83	18.05	17.99		
15	64QAM	1	37	17.84	17.98	18.08	19.2	0
15	64QAM	1	74	18.15	18.06	17.94		
15	64QAM	36	0	18.03	18.32	18.07		
15	64QAM	36	20	18.10	18.29	18.09	19.2	0
15	64QAM	36	39	17.95	18.02	18.15		
15	64QAM	75	0	18.16	17.99	17.97		
15	256QAM	1	0	17.74	17.54	17.54		
15	256QAM	1	37	17.54	17.58	17.84	19.2	0
15	256QAM	1	74	17.66	17.85	17.52		
15	256QAM	36	0	17.49	17.36	17.57		
15	256QAM	36	20	17.61	17.55	17.53	19.2	0
15	256QAM	36	39	17.66	17.50	17.61		
15	256QAM	75	0	17.53	17.39	17.67		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	18.01	18.21	18.10		
10	QPSK	1	25	17.81	18.06	18.02	19.2	0
10	QPSK	1	49	17.76	18.03	17.81		
10	QPSK	25	0	17.96	18.07	18.21		
10	QPSK	25	12	17.98	18.06	18.01	19.2	0
10	QPSK	25	25	17.97	18.21	18.10		
10	QPSK	50	0	18.25	18.26	18.22		
10	16QAM	1	0	18.03	18.15	18.03		
10	16QAM	1	25	18.05	18.16	18.10	19.2	0
10	16QAM	1	49	17.87	17.83	17.89		
10	16QAM	25	0	17.98	18.03	18.11		
10	16QAM	25	12	18.30	18.25	18.21	19.2	0
10	16QAM	25	25	18.21	18.09	18.01		
10	16QAM	50	0	18.13	18.23	18.17		
10	64QAM	1	0	17.78	18.09	18.02		
10	64QAM	1	25	17.95	17.97	17.93	19.2	0
10	64QAM	1	49	18.05	17.99	18.12		
10	64QAM	25	0	17.96	18.34	17.85		
10	64QAM	25	12	18.10	18.18	18.16	19.2	0
10	64QAM	25	25	18.19	18.17	17.96		
10	64QAM	50	0	18.28	18.19	18.08		
10	256QAM	1	0	17.91	17.64	17.70		
10	256QAM	1	25	17.59	17.73	17.77	19.2	0
10	256QAM	1	49	17.54	17.85	17.73		
10	256QAM	25	0	17.61	17.45	17.56		
10	256QAM	25	12	17.75	17.72	17.67	19.2	0
10	256QAM	25	25	17.47	17.54	17.52		
10	256QAM	50	0	17.44	17.33	17.64		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	18.17	18.23	17.97		
5	QPSK	1	12	18.02	18.10	17.88	19.2	0
5	QPSK	1	24	17.95	17.86	17.88		
5	QPSK	12	0	17.94	18.09	18.00		
5	QPSK	12	7	18.02	18.15	18.14	19.2	0
5	QPSK	12	13	18.19	18.10	18.05		
5	QPSK	25	0	18.05	18.08	18.23		
5	16QAM	1	0	18.19	17.85	18.14		
5	16QAM	1	12	18.03	18.13	18.10	19.2	0
5	16QAM	1	24	17.98	17.84	17.84		
5	16QAM	12	0	17.94	18.13	18.26		
5	16QAM	12	7	18.28	18.08	18.22	19.2	0
5	16QAM	12	13	18.18	18.18	18.05		
5	16QAM	25	0	18.01	18.22	17.97		
5	64QAM	1	0	17.82	18.01	17.95		
5	64QAM	1	12	17.92	17.87	17.89	19.2	0
5	64QAM	1	24	18.09	18.28	18.11		
5	64QAM	12	0	18.22	18.34	18.01		
5	64QAM	12	7	18.10	18.27	18.01	19.2	0
5	64QAM	12	13	18.17	18.11	18.00		
5	64QAM	25	0	18.28	18.20	18.05		
5	256QAM	1	0	17.61	17.64	17.63		
5	256QAM	1	12	17.84	17.82	17.77	19.2	0
5	256QAM	1	24	17.74	17.82	17.73		
5	256QAM	12	0	17.39	17.50	17.52		
5	256QAM	12	7	17.45	17.65	17.46	19.2	0
5	256QAM	12	13	17.69	17.40	17.48		
5	256QAM	25	0	17.52	17.44	17.48		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	18.05	18.11	17.98		
3	QPSK	1	8	18.01	17.88	17.98	19.2	0
3	QPSK	1	14	17.97	17.88	17.96		
3	QPSK	8	0	18.13	18.28	18.21		
3	QPSK	8	4	18.20	18.22	18.00	19.2	0
3	QPSK	8	7	18.16	17.98	18.18		
3	QPSK	15	0	18.05	18.27	18.13		
3	16QAM	1	0	17.98	18.04	17.95		
3	16QAM	1	8	17.98	18.01	18.07	19.2	0
3	16QAM	1	14	18.05	17.81	18.03		
3	16QAM	8	0	18.04	18.12	18.07		
3	16QAM	8	4	18.02	18.14	18.02	19.2	0
3	16QAM	8	7	17.92	18.16	18.14		
3	16QAM	15	0	18.03	18.10	17.93		
3	64QAM	1	0	17.93	18.11	17.93		
3	64QAM	1	8	17.84	17.98	17.94	19.2	0
3	64QAM	1	14	18.27	18.06	18.18		
3	64QAM	8	0	18.08	18.34	18.00		
3	64QAM	8	4	18.27	18.11	18.10	19.2	0
3	64QAM	8	7	18.10	18.29	17.93		
3	64QAM	15	0	18.16	18.20	17.91		
3	256QAM	1	0	17.66	17.65	17.56		
3	256QAM	1	8	17.65	17.56	17.60	19.2	0
3	256QAM	1	14	17.50	17.62	17.72		
3	256QAM	8	0	17.34	17.50	17.39		
3	256QAM	8	4	17.59	17.43	17.69	19.2	0
3	256QAM	8	7	17.67	17.45	17.49		
3	256QAM	15	0	17.70	17.63	17.54		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	18.13	18.23	18.11		
1.4	QPSK	1	3	17.99	17.92	17.88		
1.4	QPSK	1	5	17.80	17.98	17.89	19.2	0
1.4	QPSK	3	0	17.97	18.12	18.18		
1.4	QPSK	3	1	18.14	18.04	18.20		
1.4	QPSK	3	3	18.16	17.98	18.09		
1.4	QPSK	6	0	18.13	18.12	18.19	19.2	0
1.4	16QAM	1	0	17.94	17.88	18.03		
1.4	16QAM	1	3	17.94	17.88	17.89		
1.4	16QAM	1	5	17.94	18.04	17.96	19.2	0
1.4	16QAM	3	0	18.00	18.20	18.14		
1.4	16QAM	3	1	18.11	18.13	18.06		
1.4	16QAM	3	3	17.93	18.06	18.10		
1.4	16QAM	6	0	18.09	18.15	18.15	19.2	0
1.4	64QAM	1	0	18.04	17.94	18.19		
1.4	64QAM	1	3	17.91	17.89	18.07		
1.4	64QAM	1	5	18.15	18.27	17.96	19.2	0
1.4	64QAM	3	0	18.16	18.32	17.91		
1.4	64QAM	3	1	18.24	18.28	18.18		
1.4	64QAM	3	3	18.10	18.27	18.07		
1.4	64QAM	6	0	17.99	18.11	17.86	19.2	0
1.4	256QAM	1	0	17.81	17.49	17.54		
1.4	256QAM	1	3	17.59	17.79	17.77		
1.4	256QAM	1	5	17.63	17.61	17.76	19.2	0
1.4	256QAM	3	0	17.57	17.50	17.43		
1.4	256QAM	3	1	17.46	17.47	17.42		
1.4	256QAM	3	3	17.45	17.50	17.58		
1.4	256QAM	6	0	17.65	17.34	17.68	19.2	0

Band 38(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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	20.45	20.38	20.17		
20	QPSK	1	49	20.41	20.08	20.11	21.7	0
20	QPSK	1	99	20.15	20.21	20.18		
20	QPSK	50	0	20.26	20.26	20.24		
20	QPSK	50	24	20.42	20.36	20.32	21.7	0
20	QPSK	50	50	20.33	20.23	20.34		
20	QPSK	100	0	20.33	20.27	20.31		
20	16QAM	1	0	20.12	20.27	20.29		
20	16QAM	1	49	20.10	20.25	20.18	21.7	0
20	16QAM	1	99	20.19	20.29	20.28		
20	16QAM	50	0	20.15	20.18	20.17		
20	16QAM	50	24	20.15	20.14	20.16	21.7	0
20	16QAM	50	50	20.14	20.19	20.18		
20	16QAM	100	0	20.13	20.18	20.15		
20	64QAM	1	0	19.96	19.99	19.99		
20	64QAM	1	49	20.08	20.01	20.04	20.7	1
20	64QAM	1	99	20.11	20.16	20.12		
20	64QAM	50	0	19.60	19.57	19.46		
20	64QAM	50	24	19.65	19.58	19.59	20.7	1
20	64QAM	50	50	19.64	19.61	19.62		
20	64QAM	100	0	19.66	19.53	19.54		
20	256QAM	1	0	17.51	17.59	17.64		
20	256QAM	1	49	17.45	17.44	17.52	19.3	2.4
20	256QAM	1	99	17.46	17.54	17.49		
20	256QAM	50	0	17.75	17.81	17.84		
20	256QAM	50	24	17.83	17.80	17.87	19.3	2.4
20	256QAM	50	50	17.78	17.82	17.85		
20	256QAM	100	0	17.75	17.73	17.83		
Channel				37825	38000	38175	Tune-up limit	MPR
Frequency (MHz)				2577.5	2595	2612.5	(dBm)	(dB)
15	QPSK	1	0	20.35	20.38	20.17		
15	QPSK	1	37	20.31	20.08	20.11	21.7	0
15	QPSK	1	74	20.15	20.21	20.18		
15	QPSK	36	0	20.26	20.26	20.24		
15	QPSK	36	20	20.32	20.36	20.32	21.7	0
15	QPSK	36	39	20.33	20.23	20.34		
15	QPSK	75	0	20.33	20.27	20.31		
15	16QAM	1	0	20.12	20.27	20.29		
15	16QAM	1	37	20.10	20.25	20.18	21.7	0
15	16QAM	1	74	20.19	20.29	20.28		
15	16QAM	36	0	20.15	20.18	20.17		
15	16QAM	36	20	20.15	20.14	20.16	21.7	0
15	16QAM	36	39	20.14	20.19	20.18		
15	16QAM	75	0	20.13	20.18	20.15		
15	64QAM	1	0	19.96	19.99	19.99		
15	64QAM	1	37	20.08	20.01	20.04	20.7	1
15	64QAM	1	74	20.11	20.16	20.12		
15	64QAM	36	0	19.60	19.57	19.46		
15	64QAM	36	20	19.65	19.58	19.59	20.7	1
15	64QAM	36	39	19.64	19.61	19.62		
15	64QAM	75	0	19.66	19.53	19.54		
15	256QAM	1	0	17.51	17.59	17.64		
15	256QAM	1	37	17.45	17.44	17.52	19.3	2.4
15	256QAM	1	74	17.46	17.54	17.49		
15	256QAM	36	0	17.75	17.81	17.84		
15	256QAM	36	20	17.83	17.80	17.87	19.3	2.4
15	256QAM	36	39	17.78	17.82	17.85		
15	256QAM	75	0	17.75	17.73	17.83		
Channel				37800	38000	38200	Tune-up limit	MPR
Frequency (MHz)				2575	2595	2615	(dBm)	(dB)
10	QPSK	1	0	20.32	20.30	20.23		
10	QPSK	1	25	20.30	20.18	20.22	21.7	0
10	QPSK	1	49	20.07	20.22	20.06		
10	QPSK	25	0	20.19	20.33	20.24		
10	QPSK	25	12	20.35	20.36	20.30	21.7	0
10	QPSK	25	25	20.27	20.29	20.39		
10	QPSK	50	0	20.23	20.32	20.39		
10	16QAM	1	0	20.01	20.36	20.38		
10	16QAM	1	25	20.07	20.39	20.33	21.7	0
10	16QAM	1	49	20.08	20.38	20.32		
10	16QAM	25	0	20.07	20.30	20.26		
10	16QAM	25	12	20.11	20.15	20.30	21.7	0
10	16QAM	25	25	20.09	20.27	20.38		
10	16QAM	50	0	20.06	20.37	20.30		
10	64QAM	1	0	19.90	20.20	20.16		
10	64QAM	1	25	19.96	19.97	20.23	20.7	1
10	64QAM	1	49	20.24	20.33	20.30		
10	64QAM	25	0	19.54	19.76	19.61		
10	64QAM	25	12	19.53	19.87	19.99	20.7	1
10	64QAM	25	25	19.57	19.80	19.69		
10	64QAM	50	0	19.62	19.49	19.83		
10	256QAM	1	0	17.36	17.55	17.61		
10	256QAM	1	25	17.33	17.49	17.51	19.3	2.4
10	256QAM	1	49	17.48	17.57	17.63		
10	256QAM	25	0	17.87	17.74	17.83		
10	256QAM	25	12	17.96	17.89	17.79	19.3	2.4
10	256QAM	25	25	17.72	17.70	17.73		
10	256QAM	50	0	17.80	17.67	17.73		
Channel				37775	38000	38225	Tune-up limit	MPR
Frequency (MHz)				2572.5	2595	2617.5	(dBm)	(dB)
5	QPSK	1	0	20.35	20.37	20.21		
5	QPSK	1	12	20.31	20.15	20.11	21.7	0
5	QPSK	1	24	20.13	20.35	20.19		
5	QPSK	12	0	20.31	20.35	20.38		
5	QPSK	12	7	20.34	20.32	20.32	21.7	0
5	QPSK	12	13	20.33	20.25	20.39		
5	QPSK	25	0	20.25	20.27	20.32		
5	16QAM	1	0	20.17	20.16	20.28		
5	16QAM	1	12	20.25	20.30	20.37	21.7	0
5	16QAM	1	24	20.25	20.32	20.36		
5	16QAM	12	0	20.19	20.18	20.39		
5	16QAM	12	7	20.29	20.18	20.32	21.7	0
5	16QAM	12	13	20.22	20.18	20.31		
5	16QAM	25	0	20.17	20.25	20.32		
5	64QAM	1	0	20.16	20.02	20.17		
5	64QAM	1	12	20.28	20.05	20.25	20.7	1
5	64QAM	1	24	20.32	20.22	20.23		
5	64QAM	12	0	19.71	19.65	19.64		
5	64QAM	12	7	19.82	19.71	19.85	20.7	1
5	64QAM	12	13	19.82	19.62	19.72		
5	64QAM	25	0	19.86	19.57	19.72		
5	256QAM	1	0	17.56	17.46	17.76		
5	256QAM	1	12	17.50	17.54	17.39	19.3	2.4
5	256QAM	1	24	17.51	17.65	17.62		
5	256QAM	12	0	17.85	17.64	17.95		
5	256QAM	12	7	17.92	17.81	17.90	19.3	2.4
5	256QAM	12	13	17.73	17.85	17.91		
5	256QAM	25	0	17.82	17.73	17.88		

Band 41 (2.6G Band)–Class 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.64	20.60	20.73	20.67	20.69		
20	QPSK	1	49	20.62	20.84	20.68	20.80	20.62	21.7	0
20	QPSK	1	99	20.61	20.70	20.74	20.74	20.65		
20	QPSK	50	0	20.78	20.75	20.76	20.75	20.69		
20	QPSK	50	24	20.79	20.83	20.75	20.82	20.70	21.7	0
20	QPSK	50	50	20.76	20.83	20.82	20.76	20.74		
20	QPSK	100	0	20.80	20.83	20.75	20.82	20.70		
20	16QAM	1	0	20.57	20.56	20.52	20.58	20.56		
20	16QAM	1	49	20.69	20.57	20.59	20.53	20.67	21.7	0
20	16QAM	1	99	20.51	20.52	20.54	20.59	20.51		
20	16QAM	50	0	20.53	20.55	20.59	20.58	20.54		
20	16QAM	50	24	20.53	20.52	20.52	20.54	20.51	21.7	0
20	16QAM	50	50	20.50	20.56	20.53	20.57	20.57		
20	16QAM	100	0	20.54	20.51	20.59	20.50	20.50		
20	64QAM	1	0	20.52	20.41	20.53	20.43	20.47		
20	64QAM	1	49	20.44	20.46	20.52	20.55	20.41	20.7	1
20	64QAM	1	99	20.43	20.51	20.59	20.20	20.42		
20	64QAM	50	0	20.02	19.99	20.00	20.01	19.95		
20	64QAM	50	24	20.03	20.08	20.02	20.04	19.94	20.7	1
20	64QAM	50	50	20.01	20.07	20.10	19.99	19.98		
20	64QAM	100	0	20.02	20.09	20.00	20.01	19.93		
20	256QAM	1	0	17.56	17.35	17.40	17.41	17.37		
20	256QAM	1	49	17.43	17.49	17.54	17.43	17.47	19.3	2.4
20	256QAM	1	99	17.47	17.46	17.42	17.49	17.48		
20	256QAM	50	0	17.83	17.60	17.65	17.65	17.62		
20	256QAM	50	24	17.83	17.63	17.64	17.59	17.58	19.3	2.4
20	256QAM	50	50	17.79	17.60	17.67	17.63	17.64		
20	256QAM	100	0	17.74	17.55	17.58	17.54	17.50		
Channel				39725	40173	40620	41068	41515	Tune-up limit	MPR
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	(dBm)	(dB)
15	QPSK	1	0	20.58	20.31	20.66	20.52	20.44		
15	QPSK	1	37	20.38	20.60	20.49	20.62	20.56	21.7	0
15	QPSK	1	74	20.42	20.54	20.75	20.75	20.48		
15	QPSK	36	0	20.60	20.71	20.61	20.68	20.51		
15	QPSK	36	20	20.69	20.71	20.57	20.75	20.47	21.7	0
15	QPSK	36	39	20.75	20.78	20.72	20.63	20.49		
15	16QAM	1	0	20.60	20.43	20.47	20.51	20.35		
15	16QAM	1	37	20.60	20.53	20.43	20.31	20.62	21.7	0
15	16QAM	1	74	20.36	20.30	20.57	20.37	20.36		
15	16QAM	36	0	20.50	20.33	20.41	20.38	20.35		
15	16QAM	36	20	20.35	20.55	20.51	20.49	20.36	21.7	0
15	16QAM	36	39	20.26	20.53	20.56	20.62	20.51		
15	16QAM	75	0	20.47	20.58	20.58	20.34	20.40		
15	64QAM	1	0	20.39	20.44	20.45	20.20	20.36		
15	64QAM	1	37	20.34	20.23	20.29	20.37	20.42	20.7	1
15	64QAM	1	74	20.32	20.55	20.60	20.11	20.21		
15	64QAM	36	0	20.05	19.89	20.01	19.94	19.89		
15	64QAM	36	20	19.99	19.85	19.97	19.90	19.80	20.7	1
15	64QAM	36	39	19.91	19.85	19.96	19.80	19.83		
15	64QAM	75	0	19.84	19.88	19.76	19.79	19.79		
15	256QAM	1	0	17.32	17.37	17.42	17.39	17.36		
15	256QAM	1	37	17.31	17.38	17.30	17.31	17.34	19.3	2.4
15	256QAM	1	74	17.52	17.31	17.38	17.37	17.60		
15	256QAM	36	0	17.66	17.35	17.42	17.63	17.40		
15	256QAM	36	20	17.65	17.43	17.51	17.39	17.46	19.3	2.4
15	256QAM	36	39	17.73	17.60	17.55	17.64	17.43		
15	256QAM	75	0	17.75	17.60	17.36	17.31	17.48		
Channel				39700	40160	40620	41080	41540	Tune-up limit	MPR
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)	(dB)
10	QPSK	1	0	20.36	20.33	20.50	20.67	20.70		
10	QPSK	1	25	20.53	20.63	20.70	20.57	20.37	21.7	0
10	QPSK	1	49	20.52	20.55	20.71	20.64	20.55		
10	QPSK	25	0	20.70	20.64	20.63	20.56	20.49		
10	QPSK	25	12	20.70	20.79	20.64	20.73	20.70	21.7	0
10	QPSK	25	25	20.65	20.73	20.76	20.77	20.74		
10	QPSK	50	0	20.76	20.74	20.67	20.61	20.73		
10	16QAM	1	0	20.57	20.48	20.34	20.39	20.32		
10	16QAM	1	25	20.59	20.59	20.37	20.53	20.69	21.7	0
10	16QAM	1	49	20.41	20.55	20.47	20.47	20.26		
10	16QAM	25	0	20.41	20.58	20.55	20.34	20.50		
10	16QAM	25	12	20.41	20.43	20.44	20.54	20.36	21.7	0
10	16QAM	25	25	20.53	20.46	20.49	20.56	20.45		
10	16QAM	50	0	20.51	20.35	20.63	20.32	20.49		
10	64QAM	1	0	20.39	20.34	20.36	20.27	20.43		
10	64QAM	1	25	20.36	20.46	20.41	20.34	20.33	20.7	1
10	64QAM	1	49	20.29	20.41	20.51	20.16	20.43		
10	64QAM	25	0	20.06	19.97	19.99	19.90	19.99		
10	64QAM	25	12	19.95	19.93	19.97	19.87	19.76	20.7	1
10	64QAM	25	25	20.05	20.03	20.04	19.91	20.00		
10	64QAM	50	0	19.94	20.11	20.00	19.95	19.74		
10	256QAM	1	0	17.44	17.39	17.32	17.43	17.39		
10	256QAM	1	25	17.46	17.33	17.37	17.33	17.32	19.3	2.4
10	256QAM	1	49	17.35	17.31	17.38	17.30	17.35		
10	256QAM	25	0	17.74	17.47	17.66	17.54	17.40		
10	256QAM	25	12	17.65	17.56	17.63	17.49	17.61	19.3	2.4
10	256QAM	25	25	17.62	17.51	17.59	17.57	17.67		
10	256QAM	50	0	17.68	17.31	17.55	17.48	17.50		
Channel				39675	40148	40620	41093	41565	Tune-up limit	MPR
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)	(dB)
5	QPSK	1	0	20.39	20.46	20.74	20.63	20.63		
5	QPSK	1	12	20.59	20.77	20.65	20.66	20.67	21.7	0
5	QPSK	1	24	20.32	20.42	20.71	20.71	20.56		
5	QPSK	12	0	20.75	20.51	20.75	20.52	20.68		
5	QPSK	12	7	20.79	20.56	20.70	20.77	20.46	21.7	0
5	QPSK	12	13	20.71	20.57	20.74	20.54	20.58		
5	QPSK	25	0	20.65	20.70	20.76	20.72	20.72		
5	16QAM	1	0	20.44	20.52	20.40	20.48	20.58		
5	16QAM	1	12	20.73	20.36	20.43	20.52	20.52	21.7	0
5	16QAM	1	24	20.38	20.47	20.42	20.39	20.36		
5	16QAM	12	0	20.43	20.51	20.44	20.45	20.41		
5	16QAM	12	7	20.57	20.52	20.45	20.50	20.52	21.7	0
5	16QAM	12	13	20.40	20.32	20.33	20.49	20.47		
5	16QAM	25	0	20.46	20.32	20.37	20.49	20.46		
5	64QAM	1	0	20.50	20.21	20.34	20.45	20.24		
5	64QAM	1	12	20.20	20.30	20.31	20.58	20.45	20.7	1
5	64QAM	1	24	20.40	20.50	20.62	20.13	20.24		
5	64QAM	12	0	19.95	19.80	19.78	19.89	19.76		
5	64QAM	12	7	19.87	19.91	19.89	20.05	19.77	20.7	1
5	64QAM	12	13	19.77	20.05	19.97	19.99	20.02		
5	64QAM	25	0	19.86	20.10	19.87	19.97	19.76		
5	256QAM	1	0	17.77	17.36	17.58	17.53	17.37		
5	256QAM	1	12	17.68	17.44	17.42	17.30	17.44	19.3	2.4
5	256QAM	1	24	17.47	17.38	17.38	17.34	17.45		
5	256QAM	12	0	17.86	17.46	17.51	17.62	17.67		
5	256QAM	12	7	17.80	17.59	17.59	17.63	17.50	19.3	2.4
5	256QAM	12	13	17.73	17.56	17.45	17.45	17.55		
5	256QAM	25	0	17.61	17.37	17.46	17.44	17.35		

Band 41 (2.6G Band) HPUE (Limit 27)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.38	22.36	22.38	22.37	22.27		
20	QPSK	1	49	22.35	22.56	22.24	22.27	22.24	23.3	0
20	QPSK	1	99	22.45	22.44	22.45	22.35	22.25		
20	QPSK	50	0	22.55	22.27	22.55	22.49	22.44		
20	QPSK	50	24	22.24	22.38	22.34	22.20	22.12	23.3	0
20	QPSK	50	50	22.32	22.40	22.32	22.27	22.19		
20	QPSK	100	0	22.23	22.38	22.23	22.18	22.13		
20	16QAM	1	0	22.40	22.44	22.40	22.39	22.36		
20	16QAM	1	49	22.46	22.40	22.46	22.34	22.32	23.3	0
20	16QAM	1	99	22.42	22.49	22.42	22.41	22.22		
20	16QAM	50	0	22.24	22.32	22.24	22.22	22.17		
20	16QAM	50	24	22.27	22.42	22.27	22.19	22.15	23.3	0
20	16QAM	50	50	22.34	22.42	22.34	22.29	22.23		
20	16QAM	100	0	22.27	22.43	22.27	22.20	22.12		
20	64QAM	1	0	22.20	22.25	22.20	22.19	22.20		
20	64QAM	1	49	22.23	22.30	22.23	22.15	22.14	23.3	0
20	64QAM	1	99	22.26	22.36	22.26	22.29	22.13		
20	64QAM	50	0	22.12	22.14	22.12	22.14	22.09		
20	64QAM	50	24	22.18	22.24	22.18	22.12	22.09	23.3	0
20	64QAM	50	50	22.22	22.26	22.22	22.13	22.06		
20	64QAM	100	0	22.13	22.23	22.13	22.15	22.05		
20	256QAM	1	0	20.09	19.94	19.93	19.92	19.90		
20	256QAM	1	49	19.95	19.78	19.88	19.73	19.79	21.1	2.2
20	256QAM	1	99	20.04	19.82	19.85	19.80	19.80		
20	256QAM	50	0	20.22	20.06	20.05	20.05	20.00		
20	256QAM	50	24	20.20	20.09	20.03	20.01	19.99	21.1	2.2
20	256QAM	50	50	20.12	20.01	20.05	20.02	20.00		
20	256QAM	100	0	20.14	19.99	19.91	19.91	19.92		
Channel				39725	40173	40620	41068	41515	Tune-up limit	MPR
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	(dBm)	(dB)
15	QPSK	1	0	22.21	22.25	22.43	22.42	22.17		
15	QPSK	1	37	22.17	22.42	22.17	22.30	22.11	23.3	0
15	QPSK	1	74	22.18	22.34	22.41	22.32	22.06		
15	QPSK	36	0	22.38	22.05	22.43	22.33	22.30		
15	QPSK	36	20	22.09	22.12	22.14	22.07	22.06	23.3	0
15	QPSK	36	39	22.07	22.12	22.36	22.08	22.06		
15	QPSK	75	0	22.04	22.33	22.06	22.05	21.90		
15	16QAM	1	0	22.27	22.29	22.17	22.35	22.19		
15	16QAM	1	37	22.30	22.27	22.44	22.23	22.28	23.3	0
15	16QAM	1	74	22.43	22.45	22.34	22.39	22.12		
15	16QAM	36	0	22.22	22.12	21.99	21.99	22.03		
15	16QAM	36	20	22.23	22.34	22.08	22.17	22.05	23.3	0
15	16QAM	36	39	22.15	22.30	22.24	22.13	22.03		
15	16QAM	75	0	22.13	22.29	22.21	22.01	21.91		
15	64QAM	1	0	22.15	22.04	21.98	21.96	22.14		
15	64QAM	1	37	22.00	22.05	22.24	21.90	21.90	23.3	0
15	64QAM	1	74	22.20	22.34	22.10	22.25	21.95		
15	64QAM	36	0	21.98	22.10	21.92	22.14	21.93		
15	64QAM	36	20	22.05	22.23	22.20	22.14	22.08	23.3	0
15	64QAM	36	39	22.08	22.26	22.19	22.17	21.97		
15	64QAM	75	0	22.04	22.19	22.11	22.09	21.91		
15	256QAM	1	0	19.99	19.82	19.86	19.73	19.88		
15	256QAM	1	37	19.84	19.77	19.79	19.54	19.61	21.1	2.2
15	256QAM	1	74	19.99	19.58	19.73	19.63	19.56		
15	256QAM	36	0	20.00	19.99	20.00	19.86	19.79		
15	256QAM	36	20	20.14	20.10	19.97	20.00	19.91	21.1	2.2
15	256QAM	36	39	19.94	19.84	19.90	20.07	19.80		
15	256QAM	75	0	20.10	19.84	19.77	19.89	19.79		
Channel				39700	40160	40620	41080	41540	Tune-up limit	MPR
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)	(dB)
10	QPSK	1	0	22.34	22.34	22.24	22.19	22.08		
10	QPSK	1	25	22.12	22.4	22.1	22.29	22.08	23.3	0
10	QPSK	1	49	22.44	22.43	22.47	22.39	22.17		
10	QPSK	25	0	22.29	22.07	22.39	22.38	22.37		
10	QPSK	25	12	22.01	22.2	22.27	22.02	21.9	23.3	0
10	QPSK	25	25	22.13	22.16	22.27	22.04	22.17		
10	QPSK	50	0	22.13	22.27	22.16	22.02	22.16		
10	16QAM	1	0	22.42	22.35	22.36	22.35	22.27		
10	16QAM	1	25	22.3	22.4	22.27	22.11	22.22	23.3	0
10	16QAM	1	49	22.28	22.39	22.31	22.35	22		
10	16QAM	25	0	22.06	22.12	22.27	22.05	22.02		
10	16QAM	25	12	22.09	22.2	22.21	21.97	22.16	23.3	0
10	16QAM	25	25	22.3	22.21	22.36	22.27	22.12		
10	16QAM	50	0	22.21	22.33	22.1	22.03	22.1		
10	64QAM	1	0	22.13	22.19

Reduced power for Sensor on-LAT

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	19.68	19.72	19.62	20.90	19.81	19.96	19.98	21.00
3GPP Rel 99	RMC 12.2Kbps	19.70	19.75	19.67	20.90	19.84	20.00	20.01	21.00
3GPP Rel 6	HSDPA Subtest-1	18.71	18.81	18.70	19.90	18.85	18.98	18.98	20.00
3GPP Rel 6	HSDPA Subtest-2	18.45	18.81	18.67	19.90	18.85	19.00	18.98	20.00
3GPP Rel 6	HSDPA Subtest-3	18.23	18.28	18.17	19.40	18.36	18.47	18.47	19.50
3GPP Rel 6	HSDPA Subtest-4	18.23	18.32	18.23	19.40	18.36	18.53	18.52	19.50
3GPP Rel 8	DC-HSDPA Subtest-1	18.56	18.61	18.46	19.90	18.66	18.75	18.82	20.00
3GPP Rel 8	DC-HSDPA Subtest-2	18.24	18.57	18.50	19.90	18.65	18.81	18.84	20.00
3GPP Rel 8	DC-HSDPA Subtest-3	18.01	18.12	17.98	19.40	18.17	18.29	18.30	19.50
3GPP Rel 8	DC-HSDPA Subtest-4	18.05	18.17	18.09	19.40	18.17	18.39	18.35	19.50
3GPP Rel 6	HSUPA Subtest-1	18.71	18.79	18.72	19.90	18.84	19.01	18.97	20.00
3GPP Rel 6	HSUPA Subtest-2	17.74	17.82	17.70	18.90	17.86	18.05	17.99	19.00
3GPP Rel 6	HSUPA Subtest-3	15.94	15.99	15.93	17.90	16.82	16.99	16.97	18.00
3GPP Rel 6	HSUPA Subtest-4	16.52	16.60	16.50	17.90	17.47	17.60	17.56	18.00
3GPP Rel 6	HSUPA Subtest-5	18.68	18.78	18.62	19.90	18.83	19.00	18.98	20.00
3GPP Rel7	HSPA+ (16QAM) Subtest-1	16.95	17.04	16.93	18.40	17.42	17.52	17.41	18.50

Band	CDMA BC1			Tune-up Limit (dBm)
TX Channel	25	600	1175	
Frequency (MHz)	1851.25	1880	1908.75	
RC1 SO55	20.45	20.53	20.49	21.60
RC3 SO55	20.44	20.51	20.48	21.60
RC3 SO32 (F+SCH)	20.42	20.50	20.47	21.60
RC3 SO32 (+SCH)	20.40	20.48	20.45	21.60
RTAP 153.6Kbps	20.39	20.46	20.44	21.60
RETAP 4096Bits	20.38	20.45	20.42	21.60

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				18700	18900	19100		
Frequency (MHz)				1880	1880	1900		
20	QPSK	1	0	18.70	18.63	18.68	19.8	0
20	QPSK	1	49	18.54	18.65	18.64		
20	QPSK	1	99	18.53	18.58	18.57		
20	QPSK	50	0	18.75	18.77	18.74		
20	QPSK	50	24	18.73	18.75	18.73		
20	QPSK	50	50	18.73	18.76	18.72		
20	QPSK	100	0	18.74	18.75	18.73		
20	16QAM	1	0	18.73	18.71	18.73	19.8	0
20	16QAM	1	49	18.60	18.75	18.71		
20	16QAM	1	99	18.61	18.68	18.65		
20	16QAM	50	0	18.75	18.74	18.70		
20	16QAM	50	24	18.73	18.77	18.73		
20	16QAM	50	50	18.68	18.79	18.78		
20	16QAM	100	0	18.70	18.71	18.69		
20	64QAM	1	0	18.69	18.63	18.61		
20	64QAM	1	49	18.76	18.64	18.59	19.8	0
20	64QAM	1	99	18.70	18.76	18.78		
20	64QAM	50	0	18.77	18.76	18.73		
20	64QAM	50	24	18.75	18.79	18.75	19.8	0
20	64QAM	50	50	18.70	18.71	18.71		
20	64QAM	100	0	18.74	18.76	18.70		
20	256QAM	1	0	17.75	17.87	17.79	19.3	0.5
20	256QAM	1	49	17.62	17.82	17.73		
20	256QAM	1	99	17.70	17.78	17.77		
20	256QAM	50	0	17.41	17.41	17.37		
20	256QAM	50	24	17.44	17.52	17.47	19.3	0.5
20	256QAM	50	50	17.47	17.45	17.46		
20	256QAM	100	0	17.43	17.46	17.42		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	18.60	18.65	18.38	19.8	0
15	QPSK	1	37	18.52	18.59	18.55		
15	QPSK	1	74	18.52	18.29	18.55		
15	QPSK	36	0	18.74	18.55	18.58	19.8	0
15	QPSK	36	20	18.66	18.57	18.52		
15	QPSK	36	39	18.56	18.73	18.55		
15	QPSK	75	0	18.45	18.64	18.54		
15	16QAM	1	0	18.48	18.72	18.48	19.8	0
15	16QAM	1	37	18.63	18.66	18.71		
15	16QAM	1	74	18.42	18.50	18.64		
15	16QAM	36	0	18.50	18.57	18.71	19.8	0
15	16QAM	36	20	18.48	18.71	18.57		
15	16QAM	36	39	18.49	18.63	18.70		
15	16QAM	75	0	18.56	18.58	18.47		
15	64QAM	1	0	18.58	18.62	18.62	19.8	0
15	64QAM	1	37	18.53	18.41	18.57		
15	64QAM	1	74	18.46	18.59	18.78		
15	64QAM	36	0	18.72	18.66	18.53	19.8	0
15	64QAM	36	20	18.75	18.73	18.55		
15	64QAM	36	39	18.75	18.58	18.67		
15	64QAM	75	0	18.78	18.71	18.56		
15	256QAM	1	0	17.50	17.85	17.77	19.3	0.5
15	256QAM	1	37	17.66	17.87	17.52		
15	256QAM	1	74	17.69	17.82	17.59		
15	256QAM	36	0	17.37	17.51	17.34	19.3	0.5
15	256QAM	36	20	17.57	17.62	17.51		
15	256QAM	36	39	17.51	17.49	17.49		
15	256QAM	75	0	17.33	17.54	17.35		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	18.67	18.59	18.44	19.8	0
10	QPSK	1	25	18.44	18.62	18.43		
10	QPSK	1	49	18.35	18.28	18.29		
10	QPSK	25	0	18.64	18.53	18.64	19.8	0
10	QPSK	25	12	18.47	18.74	18.50		
10	QPSK	25	25	18.53	18.68	18.66		
10	QPSK	50	0	18.73	18.54	18.63		
10	16QAM	1	0	18.53	18.67	18.48	19.8	0
10	16QAM	1	25	18.44	18.65	18.63		
10	16QAM	1	49	18.54	18.64	18.53		
10	16QAM	25	0	18.66	18.69	18.68	19.8	0
10	16QAM	25	12	18.59	18.70	18.61		
10	16QAM	25	25	18.64	18.69	18.66		
10	16QAM	50	0	18.70	18.60	18.56		
10	64QAM	1	0	18.64	18.52	18.53	19.8	0
10	64QAM	1	25	18.53	18.68	18.37		
10	64QAM	1	49	18.50	18.63	18.59		
10	64QAM	25	0	18.53	18.74	18.61	19.8	0
10	64QAM	25	12	18.50	18.66	18.68		
10	64QAM	25	25	18.56	18.63	18.61		
10	64QAM	50	0	18.60	18.74	18.65		
10	256QAM	1	0	17.50	17.87	17.55	19.3	0.5
10	256QAM	1	25	17.49	17.81	17.65		
10	256QAM	1	49	17.74	17.66	17.71		
10	256QAM	25	0	17.35	17.37	17.47	19.3	0.5
10	256QAM	25	12	17.44	17.49	17.57		
10	256QAM	25	25	17.62	17.51	17.33		
10	256QAM	50	0	17.46	17.46	17.54		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	18.51	18.64	18.48	19.8	0
5	QPSK	1	12	18.30	18.37	18.61		
5	QPSK	1	24	18.51	18.43	18.51		
5	QPSK	12	0	18.50	18.71	18.44	19.8	0
5	QPSK	12	7	18.51	18.73	18.67		
5	QPSK	12	13	18.51	18.54	18.58		
5	QPSK	25	0	18.47	18.73	18.61		
5	16QAM	1	0	18.67	18.64	18.51	19.8	0
5	16QAM	1	12	18.55	18.78	18.62		
5	16QAM	1	24	18.96	18.62	18.44		
5	16QAM	12	0	18.71	18.75	18.58	19.8	0
5	16QAM	12	7	18.65	18.64	18.66		
5	16QAM	12	13	18.44	18.76	18.73		
5	16QAM	25	0	18.65	18.52	18.63		
5	64QAM	1	0	18.68	18.51	18.41	19.8	0
5	64QAM	1	12	18.57	18.51	18.35		
5	64QAM	1	24	18.58	18.78	18.60		
5	64QAM	12	0	18.76	18.56	18.68	19.8	0
5	64QAM	12	7	18.55	18.58	18.75		
5	64QAM	12	13	18.74	18.61	18.61		
5	64QAM	25	0	18.65	18.69	18.75		
5	256QAM	1	0	17.55	17.87	17.59	19.3	0.5
5	256QAM	1	12	17.63	17.79	17.54		
5	256QAM	1	24	17.60	17.64	17.80		
5	256QAM	12	0	17.44	17.44	17.46	19.3	0.5
5	256QAM	12	7	17.53	17.54	17.38		
5	256QAM	12	13	17.36	17.54	17.33		
5	256QAM	25	0	17.43	17.61	17.38		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	18.49	18.72	18.58	19.8	0
3	QPSK	1	8	18.27	18.56	18.60		
3	QPSK	1	14	18.52	18.53	18.57		
3	QPSK	8	0	18.48	18.55	18.74	19.8	0
3	QPSK	8	4	18.68	18.56	18.72		
3	QPSK	8	7	18.72	18.57	18.49		
3	QPSK	15	0	18.60	18.59	18.52		
3	16QAM	1	0	18.61	18.65	18.74	19.8	0
3	16QAM	1	8	18.57	18.52	18.46		
3	16QAM	1	14	18.46	18.47	18.48		
3	16QAM	8	0	18.52	18.71	18.46	19.8	0
3	16QAM	8	4	18.71	18.71	18.64		
3	16QAM	8	7	18.45	18.62	18.66		
3	16QAM	15	0	18.63	18.58	18.52		
3	64QAM	1	0	18.67	18.53	18.64	19.8	0
3	64QAM	1	8	18.77	18.48	18.38		
3	64QAM	1	14	18.52	18.69	18.78		
3	64QAM	8	0	18.67	18.76	18.57	19.8	0
3	64QAM	8	4	18.77	18.58	18.72		
3	64QAM	8	7	18.74	18.71	18.59		
3	64QAM	15	0	18.68	18.53	18.56		
3	256QAM	1	0	17.70	17.79	17.58	19.3	0.5
3	256QAM	1	8	17.41	17.86	17.71		
3	256QAM	1	14	17.54	17.57	17.54		
3	256QAM	8	0	17.41	17.39	17.40	19.3	0.5
3	256QAM	8	4	17.34	17.55	17.47		
3	256QAM	8	7	17.37	17.32	17.36		
3	256QAM	15	0	17.45	17.57	17.35		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	18.40	18.61	18.55	19.8	0
1.4	QPSK	1	3	18.42	18.59	18.36		
1.4	QPSK	1	5	18.39	18.40	18.51		
1.4	QPSK	3	0	18.50	18.72	18.71		
1.4	QPSK	3	1	18.68	18.64	18.62		
1.4	QPSK	3	3	18.54	18.69	18.64		
1.4	QPSK	6	0	18.73	18.61	18.66	19.8	0
1.4	16QAM	1	0	18.68	18.70	18.69	19.8	0
1.4	16QAM	1	3	18.42	18.71	18.68		
1.4	16QAM	1	5	18.63	18.63	18.70		
1.4	16QAM	3	0	18.66	18.73	18.54		
1.4	16QAM	3	1	18.73	18.72	18.75		
1.4	16QAM	3	3	18.58	18.56	18.62		
1.4	16QAM	6	0	18.57	18.64	18.59	19.8	0
1.4	64QAM	1	0	18.60	18.57	18.47	19.8	0
1.4	64QAM	1	3	18.65	18.66	18.45		
1.4	64QAM	1	5	18.74	18.66	18.65		
1.4	64QAM	3	0	18.72	18.70	18.56		
1.4	64QAM	3	1	18.69	18.65	18.63		
1.4	64QAM	3	3	18.59	18.62	18.78		
1.4	64QAM	6	0	18.62	18.58	18.65	19.8	0
1.4	256QAM	1	0	17.66	17.77	17.76	19.3	0.5
1.4	256QAM	1	3	17.40	17.68	17.65		
1.4	256QAM	1	5	17.74	17.77	17.52		
1.4	256QAM	3	0	17.56	17.45	17.32		
1.4	256QAM	3	1	17.56	17.50	17.49		
1.4	256QAM	3	3	17.47	17.48	17.37		
1.4	256QAM	6	0	17.43	17.50	17.38	19.3	0.5

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				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	19.78	19.85	19.77	20.5	0
20	QPSK	1	49	19.62	19.66	19.63		
20	QPSK	1	99	19.62	19.64	19.62		
20	QPSK	50	0	19.79	19.83	19.81		
20	QPSK	50	24	19.78	19.81	19.80		
20	QPSK	50	50	19.72	19.78	19.75		
20	QPSK	100	0	19.79	19.82	19.76		
20	16QAM	1	0	19.69	19.70	19.71	20.5	0
20	16QAM	1	49	19.71	19.67	19.74		
20	16QAM	1	99	19.71	19.74	19.73		
20	16QAM	50	0	19.70	19.71	19.72		
20	16QAM	50	24	19.73	19.73	19.78		
20	16QAM	50	50	19.73	19.73	19.76		
20	16QAM	100	0	19.79	19.70	19.78		
20	64QAM	1	0	19.58	19.59	19.69	20.5	0
20	64QAM	1	49	19.77	19.74	19.72		
20	64QAM	1	99	19.76	19.71	19.70		
20	64QAM	50	0	19.74	19.72	19.71		
20	64QAM	50	24	19.74	19.74	19.72		
20	64QAM	50	50	19.76	19.73	19.70		
20	64QAM	100	0	19.72	19.73	19.72		
20	256QAM	1	0	17.74	17.81	17.55	19.3	1.2
20	256QAM	1	49	17.62	17.62	17.51		
20	256QAM	1	99	17.58	17.60	17.50		
20	256QAM	50	0	17.74	17.74	17.69	19.3	1.2
20	256QAM	50	24	17.76	17.73	17.59		
20	256QAM	50	50	17.72	17.68	17.63		
20	256QAM	100	0	17.75	17.66	17.60		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	19.76	19.70	19.63	20.5	0
15	QPSK	1	37	19.37	19.57	19.55		
15	QPSK	1	74	19.47	19.51	19.53		
15	QPSK	36	0	19.56	19.63	19.79	20.5	0
15	QPSK	36	20	19.74	19.70	19.51		
15	QPSK	36	39	19.55	19.67	19.66		
15	QPSK	75	0	19.76	19.70	19.66		
15	16QAM	1	0	19.66	19.74	19.76	20.5	0
15	16QAM	1	37	19.74	19.56	19.74		
15	16QAM	1	74	19.68	19.63	19.71		
15	16QAM	36	0	19.62	19.72	19.61	20.5	0
15	16QAM	36	20	19.60	19.75	19.70		
15	16QAM	36	39	19.73	19.71	19.51		
15	16QAM	75	0	19.70	19.76	19.60		
15	64QAM	1	0	19.51	19.39	19.59	20.5	0
15	64QAM	1	37	19.62	19.72	19.70		
15	64QAM	1	74	19.62	19.66	19.56		
15	64QAM	36	0	19.70	19.62	19.71	20.5	0
15	64QAM	36	20	19.66	19.75	19.64		
15	64QAM	36	39	19.79	19.64	19.69		
15	64QAM	75	0	19.74	19.68	19.63		
15	256QAM	1	0	17.74	17.63	17.43	19.3	1.2
15	256QAM	1	37	17.54	17.38	17.34		
15	256QAM	1	74	17.34	17.63	17.31		
15	256QAM	36	0	17.51	17.50	17.64	19.3	1.2
15	256QAM	36	20	17.52	17.68	17.40		
15	256QAM	36	39	17.60	17.53	17.45		
15	256QAM	75	0	17.55	17.59	17.65		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	19.62	19.79	19.74	20.5	0
10	QPSK	1	25	19.45	19.38	19.45		
10	QPSK	1	49	19.36	19.43	19.48		
10	QPSK	25	0	19.62	19.57	19.69	20.5	0
10	QPSK	25	12	19.51	19.64	19.67		
10	QPSK	25	25	19.42	19.54	19.48		
10	QPSK	50	0	19.58	19.62	19.69		
10	16QAM	1	0	19.67	19.72	19.66	20.5	0
10	16QAM	1	25	19.65	19.56	19.65		
10	16QAM	1	49	19.78	19.71	19.73		
10	16QAM	25	0	19.59	19.61	19.79	20.5	0
10	16QAM	25	12	19.75	19.78	19.78		
10	16QAM	25	25	19.62	19.63	19.56		
10	16QAM	50	0	19.79	19.74	19.72		
10	64QAM	1	0	19.44	19.54	19.55	20.5	0
10	64QAM	1	25	19.69	19.78	19.73		
10	64QAM	1	49	19.71	19.66	19.71		
10	64QAM	25	0	19.59	19.77	19.77	20.5	0
10	64QAM	25	12	19.69	19.73	19.67		
10	64QAM	25	25	19.70	19.70	19.72		
10	64QAM	50	0	19.73	19.70	19.71		
10	256QAM	1	0	17.58	17.84	17.34	19.3	1.2
10	256QAM	1	25	17.52	17.40	17.52		
10	256QAM	1	49	17.46	17.65	17.37		
10	256QAM	25	0	17.78	17.55	17.63	19.3	1.2
10	256QAM	25	12	17.57	17.66	17.34		
10	256QAM	25	25	17.50	17.47	17.52		
10	256QAM	50	0	17.75	17.54	17.54		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	19.69	19.70	19.70	20.5	0
5	QPSK	1	12	19.40	19.50	19.37		
5	QPSK	1	24	19.45	19.45	19.38		
5	QPSK	12	0	19.55	19.55	19.65	20.5	0
5	QPSK	12	7	19.50	19.75	19.75		
5	QPSK	12	13	19.42	19.77	19.49		
5	QPSK	25	0	19.59	19.77	19.54		
5	16QAM	1	0	19.69	19.55	19.72	20.5	0
5	16QAM	1	12	19.73	19.62	19.72		
5	16QAM	1	24	19.78	19.79	19.73		
5	16QAM	12	0	19.70	19.71	19.72	20.5	0
5	16QAM	12	7	19.72	19.87	19.56		
5	16QAM	12	13	19.67	19.72	19.78		
5	16QAM	25	0	19.58	19.56	19.76		
5	64QAM	1	0	19.33	19.46	19.49	20.5	0
5	64QAM	1	12	19.60	19.68	19.69		
5	64QAM	1	24	19.63	19.68	19.75		
5	64QAM	12	0	19.71	19.66	19.60	20.5	0
5	64QAM	12	7	19.71	19.71	19.71		
5	64QAM	12	13	19.68	19.74	19.67		
5	64QAM	25	0	19.67	19.68	19.78		
5	256QAM	1	0	17.78	17.56	17.37	19.3	1.2
5	256QAM	1	12	17.54	17.51	17.51		
5	256QAM	1	24	17.48	17.55	17.39		
5	256QAM	12	0	17.70	17.79	17.54	19.3	1.2
5	256QAM	12	7	17.51	17.68	17.44		
5	256QAM	12	13	17.60	17.64	17.38		
5	256QAM	25	0	17.53	17.58	17.37		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	19.52	19.74	19.65	20.5	0
3	QPSK	1	8	19.45	19.49	19.46		
3	QPSK	1	14	19.43	19.46	19.62		
3	QPSK	8	0	19.52	19.65	19.71	20.5	0
3	QPSK	8	4	19.74	19.58	19.74		
3	QPSK	8	7	19.65	19.48	19.66		
3	QPSK	15	0	19.59	19.72	19.50		
3	16QAM	1	0	19.66	19.56	19.70	20.5	0
3	16QAM	1	8	19.66	19.55	19.71		
3	16QAM	1	14	19.79	19.73	19.60		
3	16QAM	8	0	19.69	19.65	19.78	20.5	0
3	16QAM	8	4	19.71	19.68	19.65		
3	16QAM	8	7	19.62	19.65	19.72		
3	16QAM	15	0	19.55	19.77	19.69		
3	64QAM	1	0	19.43	19.59	19.51	20.5	0
3	64QAM	1	8	19.62	19.71	19.73		
3	64QAM	1	14	19.61	19.71	19.60		
3	64QAM	8	0	19.72	19.66	19.71	20.5	0
3	64QAM	8	4	19.60	19.71	19.71		
3	64QAM	8	7	19.61	19.73	19.56		
3	64QAM	15	0	19.57	19.74	19.74		
3	256QAM	1	0	17.76	17.84	17.48	19.3	1.2
3	256QAM	1	8	17.67	17.39	17.43		
3	256QAM	1	14	17.40	17.54	17.43		
3	256QAM	8	0	17.76	17.67	17.73	19.3	1.2
3	256QAM	8	4	17.79	17.51	17.64		
3	256QAM	8	7	17.59	17.70	17.67		
3	256QAM	15	0	17.52	17.51	17.55		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	19.70	19.73	19.75	20.5	0
1.4	QPSK	1	3	19.32	19.36	19.33		
1.4	QPSK	1	5	19.42	19.52	19.40		
1.4	QPSK	3	0	19.50	19.77	19.57		
1.4	QPSK	3	1	19.51	19.53	19.70		
1.4	QPSK	3	3	19.45	19.75	19.68		
1.4	QPSK	6	0	19.69	19.71	19.51	20.5	0
1.4	16QAM	1	0	19.64	19.57	19.59	20.5	0
1.4	16QAM	1	3	19.57	19.42	19.78		
1.4	16QAM	1	5	19.71	19.59	19.64		
1.4	16QAM	3	0	19.67	19.61	19.64		
1.4	16QAM	3	1	19.61	19.68	19.70		
1.4	16QAM	3	3	19.76	19.78	19.57		
1.4	16QAM	6	0	19.74	19.78	19.72	20.5	0
1.4	64QAM	1	0	19.33	19.63	19.44	20.5	0
1.4	64QAM	1	3	19.61	19.59	19.73		
1.4	64QAM	1	5	19.67	19.79	19.69		
1.4	64QAM	3	0	19.72	19.71	19.79		
1.4	64QAM	3	1	19.62	19.78	19.73		
1.4	64QAM	3	3	19.78	19.58	19.78		
1.4	64QAM	6	0	19.65	19.70	19.70	20.5	0
1.4	256QAM	1	0	17.59	17.68	17.44	19.3	1.2
1.4	256QAM	1	3	17.61	17.60	17.51		
1.4	256QAM	1	5	17.52	17.59	17.45		
1.4	256QAM	3	0	17.62	17.74	17.63		
1.4	256QAM	3	1	17.66	17.76	17.41		
1.4	256QAM	3	3	17.76	17.63	17.42		
1.4	256QAM	6	0	17.61	17.56	17.63	19.3	1.2

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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	18.29	18.58	18.58	19.7	0
20	QPSK	1	49	18.39	18.62	18.64		
20	QPSK	1	99	18.48	18.63	18.67		
20	QPSK	50	0	18.44	18.50	18.49		
20	QPSK	50	24	18.56	18.60	18.65		
20	QPSK	50	50	18.55	18.58	18.60		
20	QPSK	100	0	18.55	18.61	18.63		
20	16QAM	1	0	18.51	18.52	18.51	19.7	0
20	16QAM	1	49	18.56	18

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	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	18.80	18.86	18.68	19.8	0
20	QPSK	1	49	18.63	18.78	18.62		
20	QPSK	1	99	18.58	18.73	18.60		
20	QPSK	50	0	18.77	18.78	18.75	19.8	0
20	QPSK	50	24	18.81	18.83	18.78		
20	QPSK	50	50	18.80	18.77	18.77		
20	QPSK	100	0	18.83	18.81	18.75		
20	16QAM	1	0	18.70	18.70	18.68	19.8	0
20	16QAM	1	49	18.67	18.72	18.63		
20	16QAM	1	99	18.63	18.67	18.72		
20	16QAM	50	0	18.75	18.75	18.76	19.8	0
20	16QAM	50	24	18.73	18.71	18.73		
20	16QAM	50	50	18.77	18.73	18.78		
20	16QAM	100	0	18.71	18.70	18.73		
20	64QAM	1	0	18.68	18.65	18.59	19.8	0
20	64QAM	1	49	18.55	18.64	18.55		
20	64QAM	1	99	18.70	18.59	18.74		
20	64QAM	50	0	18.77	18.75	18.79	19.8	0
20	64QAM	50	24	18.75	18.75	18.77		
20	64QAM	50	50	18.76	18.76	18.77		
20	64QAM	100	0	18.73	18.78	18.76		
20	256QAM	1	0	17.65	17.62	17.47	19.3	0.5
20	256QAM	1	49	17.54	17.51	17.31		
20	256QAM	1	99	17.52	17.59	17.37		
20	256QAM	50	0	17.44	17.64	17.44	19.3	0.5
20	256QAM	50	24	17.53	17.67	17.47		
20	256QAM	50	50	17.55	17.69	17.43		
20	256QAM	100	0	17.58	17.71	17.36		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	18.63	18.79	18.62	19.8	0
15	QPSK	1	37	18.62	18.54	18.56		
15	QPSK	1	74	18.42	18.62	18.45		
15	QPSK	36	0	18.67	18.57	18.66	19.8	0
15	QPSK	36	20	18.55	18.73	18.61		
15	QPSK	36	39	18.64	18.55	18.60		
15	QPSK	75	0	18.60	18.66	18.59		
15	16QAM	1	0	18.73	18.55	18.66	19.8	0
15	16QAM	1	37	18.44	18.62	18.54		
15	16QAM	1	74	18.46	18.68	18.64		
15	16QAM	36	0	18.75	18.75	18.77	19.8	0
15	16QAM	36	20	18.70	18.67	18.70		
15	16QAM	36	39	18.76	18.78	18.77		
15	16QAM	75	0	18.75	18.67	18.50		
15	64QAM	1	0	18.47	18.50	18.55	19.8	0
15	64QAM	1	37	18.37	18.48	18.45		
15	64QAM	1	74	18.68	18.48	18.65		
15	64QAM	36	0	18.53	18.76	18.78	19.8	0
15	64QAM	36	20	18.73	18.74	18.77		
15	64QAM	36	39	18.58	18.53	18.75		
15	64QAM	75	0	18.76	18.65	18.55		
15	256QAM	1	0	17.43	17.51	17.37	19.3	0.5
15	256QAM	1	37	17.49	17.45	17.49		
15	256QAM	1	74	17.47	17.63	17.49		
15	256QAM	36	0	17.46	17.44	17.46	19.3	0.5
15	256QAM	36	20	17.34	17.67	17.48		
15	256QAM	36	39	17.35	17.65	17.40		
15	256QAM	75	0	17.38	17.58	17.45		
Channel				26090	26340	26590	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	18.55	18.76	18.40	19.8	0
10	QPSK	1	25	18.38	18.66	18.62		
10	QPSK	1	49	18.36	18.54	18.45		
10	QPSK	25	0	18.50	18.63	18.62	19.8	0
10	QPSK	25	12	18.70	18.64	18.66		
10	QPSK	25	25	18.58	18.57	18.73		
10	QPSK	50	0	18.67	18.77	18.45		
10	16QAM	1	0	18.70	18.79	18.64	19.8	0
10	16QAM	1	25	18.71	18.77	18.59		
10	16QAM	1	49	18.50	18.62	18.74		
10	16QAM	25	0	18.73	18.70	18.58	19.8	0
10	16QAM	25	12	18.71	18.75	18.70		
10	16QAM	25	25	18.72	18.73	18.79		
10	16QAM	50	0	18.72	18.74	18.54		
10	64QAM	1	0	18.58	18.63	18.58	19.8	0
10	64QAM	1	25	18.36	18.49	18.53		
10	64QAM	1	49	18.70	18.38	18.74		
10	64QAM	25	0	18.72	18.71	18.60	19.8	0
10	64QAM	25	12	18.71	18.73	18.64		
10	64QAM	25	25	18.60	18.66	18.53		
10	64QAM	50	0	18.72	18.77	18.54		
10	256QAM	1	0	17.65	17.47	17.30	19.3	0.5
10	256QAM	1	25	17.49	17.54	17.42		
10	256QAM	1	49	17.42	17.62	17.44		
10	256QAM	25	0	17.41	17.46	17.41	19.3	0.5
10	256QAM	25	12	17.48	17.51	17.43		
10	256QAM	25	25	17.36	17.66	17.43		
10	256QAM	50	0	17.56	17.72	17.30		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	18.77	18.57	18.56	19.8	0
5	QPSK	1	12	18.44	18.55	18.45		
5	QPSK	1	24	18.52	18.59	18.56		
5	QPSK	12	0	18.62	18.76	18.61	19.8	0
5	QPSK	12	7	18.72	18.55	18.72		
5	QPSK	12	13	18.76	18.73	18.77		
5	QPSK	25	0	18.65	18.74	18.69		
5	16QAM	1	0	18.68	18.61	18.64	19.8	0
5	16QAM	1	12	18.44	18.59	18.49		
5	16QAM	1	24	18.48	18.57	18.75		
5	16QAM	12	0	18.75	18.74	18.71	19.8	0
5	16QAM	12	7	18.79	18.56	18.61		
5	16QAM	12	13	18.68	18.63	18.72		
5	16QAM	25	0	18.79	18.78	18.75		
5	64QAM	1	0	18.66	18.45	18.63	19.8	0
5	64QAM	1	12	18.33	18.41	18.60		
5	64QAM	1	24	18.58	18.37	18.76		
5	64QAM	12	0	18.68	18.76	18.77	19.8	0
5	64QAM	12	7	18.70	18.75	18.53		
5	64QAM	12	13	18.62	18.62	18.68		
5	64QAM	25	0	18.66	18.78	18.55		
5	256QAM	1	0	17.60	17.59	17.43	19.3	0.5
5	256QAM	1	12	17.47	17.30	17.30		
5	256QAM	1	24	17.30	17.34	17.34		
5	256QAM	12	0	17.41	17.46	17.40	19.3	0.5
5	256QAM	12	7	17.43	17.44	17.43		
5	256QAM	12	13	17.34	17.58	17.42		
5	256QAM	25	0	17.38	17.68	17.49		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	18.55	18.61	18.50	19.8	0
3	QPSK	1	8	18.57	18.72	18.34		
3	QPSK	1	14	18.37	18.54	18.30		
3	QPSK	8	0	18.50	18.74	18.51	19.8	0
3	QPSK	8	4	18.73	18.55	18.58		
3	QPSK	8	7	18.61	18.61	18.69		
3	QPSK	15	0	18.54	18.57	18.59		
3	16QAM	1	0	18.58	18.61	18.59	19.8	0
3	16QAM	1	8	18.43	18.66	18.48		
3	16QAM	1	14	18.61	18.44	18.57		
3	16QAM	8	0	18.62	18.72	18.68	19.8	0
3	16QAM	8	4	18.73	18.67	18.65		
3	16QAM	8	7	18.59	18.63	18.56		
3	16QAM	15	0	18.70	18.70	18.55		
3	64QAM	1	0	18.44	18.45	18.54	19.8	0
3	64QAM	1	8	18.47	18.46	18.41		
3	64QAM	1	14	18.61	18.38	18.74		
3	64QAM	8	0	18.67	18.61	18.73	19.8	0
3	64QAM	8	4	18.71	18.76	18.53		
3	64QAM	8	7	18.53	18.57	18.71		
3	64QAM	15	0	18.65	18.57	18.63		
3	256QAM	1	0	17.56	17.59	17.41	19.3	0.5
3	256QAM	1	8	17.39	17.57	17.45		
3	256QAM	1	14	17.39	17.59	17.39		
3	256QAM	8	0	17.43	17.45	17.45	19.3	0.5
3	256QAM	8	4	17.33	17.65	17.46		
3	256QAM	8	7	17.35	17.54	17.46		
3	256QAM	15	0	17.49	17.53	17.49		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	18.69	18.73	18.44	19.8	0
1.4	QPSK	1	3	18.47	18.70	18.42		
1.4	QPSK	1	5	18.38	18.64	18.60		
1.4	QPSK	3	0	18.58	18.76	18.53		
1.4	QPSK	3	1	18.68	18.79	18.55		
1.4	QPSK	3	3	18.51	18.62	18.68		
1.4	QPSK	6	0	18.69	18.70	18.70	19.8	0
1.4	16QAM	1	0	18.60	18.65	18.53	19.8	0
1.4	16QAM	1	3	18.63	18.61	18.64		
1.4	16QAM	1	5	18.50	18.70	18.63		
1.4	16QAM	3	0	18.66	18.78	18.52		
1.4	16QAM	3	1	18.74	18.62	18.74		
1.4	16QAM	3	3	18.68	18.70	18.79		
1.4	16QAM	6	0	18.76	18.66	18.61	19.8	0
1.4	64QAM	1	0	18.55	18.70	18.56	19.8	0
1.4	64QAM	1	3	18.46	18.50	18.53		
1.4	64QAM	1	5	18.79	18.47	18.70		
1.4	64QAM	3	0	18.56	18.79	18.54		
1.4	64QAM	3	1	18.61	18.78	18.60		
1.4	64QAM	3	3	18.51	18.69	18.75		
1.4	64QAM	6	0	18.65	18.65	18.66	19.8	0
1.4	256QAM	1	0	17.41	17.57	17.51	19.3	0.5
1.4	256QAM	1	3	17.59	17.53	17.42		
1.4	256QAM	1	5	17.39	17.56	17.41		
1.4	256QAM	3	0	17.34	17.65	17.45		
1.4	256QAM	3	1	17.49	17.51	17.47		
1.4	256QAM	3	3	17.47	17.44	17.44		
1.4	256QAM	6	0	17.44	17.58	17.48	18.6	1.2

Band 30

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					27710			
Frequency (MHz)					2310			
10	QPSK	1	0		18.11		18.8	0
10	QPSK	1	25		18.01			
10	QPSK	1	49		17.99			
10	QPSK	25	0		18.03		18.8	0
10	QPSK	25	12		18.09			
10	QPSK	25	25		18.05			
10	QPSK	50	0		18.06			
10	16QAM	1	0		18.08		18.8	0
10	16QAM	1	25		18.06			
10	16QAM	1	49		18.05			
10	16QAM	25	0		18.00		18.8	0
10	16QAM	25	12		18.07			
10	16QAM	25	25		18.08			
10	16QAM	50	0		18.07			
10	64QAM	1	0		18.00		18.8	0
10	64QAM	1	25		18.03			
10	64QAM	1	49		18.04			
10	64QAM	25	0		18.03		18.8	0
10	64QAM	25	12		18.05			
10	64QAM	25	25		18.06			
10	64QAM	50	0		18.09			
10	256QAM	1	0		17.49		18.8	0
10	256QAM	1	25		17.64			
10	256QAM	1	49		17.71			
10	256QAM	25	0		17.57		18.8	0
10	256QAM	25	12		17.64			
10	256QAM	25	25		17.58			
10	256QAM	50	0		17.54			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	18.00	18.09	17.96	18.8	0
5	QPSK	1	12	17.94	17.83	18.01		
5	QPSK	1	24	17.89	17.81	17.87		
5	QPSK	12	0	17.78	17.88	17.92	18.8	0
5	QPSK	12	7	17.97	18.05	17.98		
5	QPSK	12	13	17.80	17.76	17.93		
5	QPSK	25	0	17.79	17.89	17.90		
5	16QAM	1	0	17.88	18.06	18.09	18.8	0
5	16QAM	1	12	17.83	17.86	18.04		
5	16QAM	1	24	17.87	17.97	18.02		
5	16QAM	12	0	17.98	17.81	17.88	18.8	0
5	16QAM	12	7	18.07	17.98	18.08		
5	16QAM	12	13	17.87	18.05	18.06		
5	16QAM	25	0	18.04	17.97	17.88		
5	64QAM	1	0	18.05	17.93	17.94	18.8	0
5	64QAM	1	12	17.81	17.97	18.00		
5	64QAM	1	24	17.85	17.85	17.79		
5	64QAM	12	0	18.05	18.03	17.95	18.8	0
5	64QAM	12	7	18.08	17.94	17.97		
5	64QAM	12	13	17.93	17.90	17.83		
5	64QAM	25	0	18.06	17.96	18.00		
5	256QAM	1	0	17.36	17.46	17.24	18.8	0
5	256QAM	1	12	17.42	17.54	17.54		
5	256QAM	1	24	17.58	17.57	17.67		
5	256QAM	12	0	17.56	17.54	17.54	18.8	0
5	256QAM	12	7	17.50	17.53	17.68		
5	256QAM	12	13	17.57	17.34	17.54		
5	256QAM	25	0	17.58	17.56	17.57		

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)				1720	1745	1770		
20	QPSK	1	0	19.78	19.90	19.80	20.5	0
20	QPSK	1	49	19.58	19.77	19.67		
20	QPSK	1	99	19.56	19.73	19.57		
20	QPSK	50	0	19.75	19.87	19.77	20.5	0
20	QPSK	50	24	19.71	19.85	19.76		
20	QPSK	50	50	19.70	19.85	19.73		
20	QPSK	100	0	19.75	19.83	19.79		
20	16QAM	1	0	19.71	19.78	19.79	20.5	0
20	16QAM	1	49	19.75	19.78	19.71		
20	16QAM	1	99	19.71	19.69	19.72		
20	16QAM	50	0	19.72	19.75	19.78	20.5	0
20	16QAM	50	24	19.77	19.77	19.72		
20	16QAM	50	50	19.75	19.71	19.75		
20	16QAM	100	0	19.76	19.73	19.77		
20	64QAM	1	0	19.76	19.76	19.71	20.5	0
20	64QAM	1	49	19.77	19.67	19.73		
20	64QAM	1	99	19.73	19.75	19.71		
20	64QAM	50	0	19.76	19.76	19.71	20.5	0
20	64QAM	50	24	19.72	19.71	19.75		
20	64QAM	50	50	19.78	19.78	19.78		
20	64QAM	100	0	19.70	19.78	19.73		
20	256QAM	1	0	17.77	17.60	17.68	19.3	1.2
20	256QAM	1	49	17.70	17.70	17.74		
20	256QAM	1	99	17.64	17.74	17.68		
20	256QAM	50	0	17.48	17.52	17.52	19.3	1.2
20	256QAM	50	24	17.61	17.58	17.58		
20	256QAM	50	50	17.59	17.50	17.53		
20	256QAM	100	0	17.58	17.49	17.54		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	19.57	19.78	19.70	20.5	0
15	QPSK	1	37	19.58	19.77	19.51		
15	QPSK	1	74	19.39	19.73	19.38		
15	QPSK	36	0	19.55	19.74	19.77	20.5	0
15	QPSK	36	20	19.57	19.77	19.67		
15	QPSK	36	39	19.49	19.72	19.70		
15	QPSK	75	0	19.66	19.73	19.67		
15	16QAM	1	0	19.66	19.73	19.57	20.5	0
15	16QAM	1	37	19.70	19.70	19.49		
15	16QAM	1	74	19.76	19.55	19.76		
15	16QAM	36	0	19.68	19.75	19.69	20.5	0
15	16QAM	36	20	19.72	19.77	19.69		
15	16QAM	36	39	19.55	19.76	19.50		
15	16QAM	75	0	19.76	19.65	19.70		
15	64QAM	1	0	19.71	19.56	19.56	20.5	0
15	64QAM	1	37	19.71	19.53	19.74		
15	64QAM	1	74	19.74	19.65	19.57		
15	64QAM	36	0	19.78	19.73	19.67	20.5	0
15	64QAM	36	20	19.78	19.63	19.64		
15	64QAM	36	39	19.54	19.71	19.74		
15	64QAM	75	0	19.56	19.77	19.70		
15	256QAM	1	0	17.77	17.44	17.73	19.3	1.2
15	256QAM	1	37	17.66	17.70	17.63		
15	256QAM	1	74	17.46	17.63	17.53		
15	256QAM	36	0	17.47	17.50	17.46	19.3	1.2
15	256QAM	36	20	17.61	17.62	17.57		
15	256QAM	36	39	17.43	17.49	17.32		
15	256QAM	75	0	17.52	17.44	17.58		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	19.73	19.74	19.76	20.5	0
10	QPSK	1	25	19.47	19.50	19.56		
10	QPSK	1	49	19.40	19.70	19.42		
10	QPSK	25	0	19.53	19.64	19.53	20.5	0
10	QPSK	25	12	19.53	19.68	19.62		
10	QPSK	25	25	19.46	19.63	19.58		
10	QPSK	50	0	19.69	19.73	19.54		
10	16QAM	1	0	19.67	19.74	19.74	20.5	0
10	16QAM	1	25	19.72	19.66	19.56		
10	16QAM	1	49	19.56	19.48	19.70		
10	16QAM	25	0	19.49	19.68	19.69	20.5	0
10	16QAM	25	12	19.71	19.75	19.61		
10	16QAM	25	25	19.68	19.72	19.70		
10	16QAM	50	0	19.73	19.62	19.60		
10	64QAM	1	0	19.79	19.53	19.67	20.5	0
10	64QAM	1	25	19.76	19.72	19.63		
10	64QAM	1	49	19.76	19.62	19.73		
10	64QAM	25	0	19.66	19.71	19.73	20.5	0
10	64QAM	25	12	19.63	19.73	19.61		
10	64QAM	25	25	19.62	19.75	19.58		
10	64QAM	50	0	19.67	19.68	19.63		
10	256QAM	1	0	17.74	17.56	17.54	19.3	1.2
10	256QAM	1	25	17.64	17.65	17.76		
10	256QAM	1	49	17.56	17.60	17.63		
10	256QAM	25	0	17.52	17.48	17.42	19.3	1.2
10	256QAM	25	12	17.63	17.39	17.37		
10	256QAM	25	25	17.50	17.46	17.43		
10	256QAM	50	0	17.40	17.31	17.50		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	19.74	19.73	19.77	20.5	0
5	QPSK	1	12	19.36	19.66	19.51		
5	QPSK	1	24	19.41	19.50	19.38		
5	QPSK	12	0	19.60	19.79	19.75	20.5	0
5	QPSK	12	7	19.57	19.62	19.46		
5	QPSK	12	13	19.42	19.70	19.72		
5	QPSK	25	0	19.72	19.64	19.75		
5	16QAM	1	0	19.64	19.74	19.82	20.5	0
5	16QAM	1	12	19.78	19.76	19.70		
5	16QAM	1	24	19.70	19.48	19.63		
5	16QAM	12	0	19.70	19.68	19.69	20.5	0
5	16QAM	12	7	19.72	19.70	19.65		
5	16QAM	12	13	19.78	19.69	19.73		
5	16QAM	25	0	19.70	19.60	19.75		
5	64QAM	1	0	19.70	19.75	19.69	20.5	0
5	64QAM	1	12	19.73	19.47	19.64		
5	64QAM	1	24	19.76	19.75	19.78		
5	64QAM	12	0	19.75	19.77	19.73	20.5	0
5	64QAM	12	7	19.74	19.72	19.60		
5	64QAM	12	13	19.58	19.72	19.58		
5	64QAM	25	0	19.79	19.75	19.66		
5	256QAM	1	0	17.74	17.46	17.56	19.3	1.2
5	256QAM	1	12	17.52	17.65	17.57		
5	256QAM	1	24	17.68	17.76	17.46		
5	256QAM	12	0	17.46	17.45	17.30	19.3	1.2
5	256QAM	12	7	17.36	17.49	17.61		
5	256QAM	12	13	17.63	17.39	17.30		
5	256QAM	25	0	17.62	17.51	17.36		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	19.78	19.70	19.65	20.5	0
3	QPSK	1	8	19.57	19.69	19.55		
3	QPSK	1	14	19.36	19.48	19.32		
3	QPSK	8	0	19.58	19.75	19.57	20.5	0
3	QPSK	8	4	19.44	19.76	19.48		
3	QPSK	8	7	19.53	19.58	19.65		
3	QPSK	15	0	19.63	19.58	19.64		
3	16QAM	1	0	19.57	19.63	19.56	20.5	0
3	16QAM	1	8	19.73	19.74	19.47		
3	16QAM	1	14	19.73	19.51	19.66		
3	16QAM	8	0	19.56	19.76	19.70	20.5	0
3	16QAM	8	4	19.76	19.67	19.74		
3	16QAM	8	7	19.58	19.58	19.62		
3	16QAM	15	0	19.64	19.78	19.65		
3	64QAM	1	0	19.75	19.70	19.62	20.5	0
3	64QAM	1	8	19.71	19.54	19.60		
3	64QAM	1	14	19.77	19.78	19.73		
3	64QAM	8

Full Power for ANT0

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				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	22.87	22.95	22.88		
20	QPSK	1	49	22.86	22.90	22.86	23.8	0
20	QPSK	1	99	22.82	22.85	22.80		
20	QPSK	50	0	22.01	22.05	21.99		
20	QPSK	50	24	21.93	22.01	21.92	22.8	1
20	QPSK	50	50	21.96	21.97	21.97		
20	QPSK	100	0	21.96	22.04	22.03		
20	16QAM	1	0	22.25	22.26	22.26		
20	16QAM	1	49	22.22	22.27	22.18	22.8	1
20	16QAM	1	99	22.16	22.19	22.21		
20	16QAM	50	0	21.03	21.06	21.05		
20	16QAM	50	24	20.95	21.02	21.08	21.8	2
20	16QAM	50	50	20.98	21.04	20.97		
20	16QAM	100	0	20.95	20.98	21.02		
20	64QAM	1	0	21.17	21.18	21.08		
20	64QAM	1	49	21.13	21.11	21.13	21.8	2
20	64QAM	1	99	21.04	21.01	21.04		
20	64QAM	50	0	20.05	20.08	20.05		
20	64QAM	50	24	20.02	20.04	20.09	20.8	3
20	64QAM	50	50	19.98	20.02	20.01		
20	64QAM	100	0	19.98	20.00	20.04		
20	256QAM	1	0	18.00	18.12	18.04		
20	256QAM	1	49	17.87	18.07	17.98	19.3	4.5
20	256QAM	1	99	17.95	18.03	18.02		
20	256QAM	50	0	17.66	17.66	17.82		
20	256QAM	50	24	17.69	17.77	17.72	19.3	4.5
20	256QAM	50	50	17.72	17.70	17.71		
20	256QAM	100	0	17.68	17.71	17.67		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	22.89	22.92	22.90		
15	QPSK	1	37	22.84	22.89	22.89	23.8	0
15	QPSK	1	74	22.89	22.89	22.90		
15	QPSK	36	0	21.97	22.03	22.00		
15	QPSK	36	20	22.01	22.01	22.05	22.8	1
15	QPSK	36	39	21.92	21.97	21.97		
15	QPSK	75	0	21.90	21.96	22.04		
15	16QAM	1	0	22.23	22.25	22.19		
15	16QAM	1	37	22.17	22.25	22.19	22.8	1
15	16QAM	1	74	22.23	22.22	22.19		
15	16QAM	36	0	20.97	21.03	21.00		
15	16QAM	36	20	21.04	20.98	21.05	21.8	2
15	16QAM	36	39	20.94	21.02	20.96		
15	16QAM	75	0	20.93	20.97	21.03		
15	64QAM	1	0	21.12	21.16	21.16		
15	64QAM	1	37	21.11	21.16	21.15	21.8	2
15	64QAM	1	74	21.03	21.04	21.04		
15	64QAM	36	0	20.01	20.11	20.08		
15	64QAM	36	20	20.06	20.05	20.08	20.8	3
15	64QAM	36	39	19.98	20.02	19.99		
15	64QAM	75	0	19.93	20.00	20.06		
15	256QAM	1	0	17.98	18.02	17.95		
15	256QAM	1	37	17.94	18.11	18.08	19.3	4.5
15	256QAM	1	74	17.91	17.97	18.05		
15	256QAM	36	0	17.68	17.64	17.72		
15	256QAM	36	20	17.78	17.83	17.74	19.3	4.5
15	256QAM	36	39	17.66	17.81	17.77		
15	256QAM	75	0	17.66	17.69	17.71		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	22.89	22.83	22.89		
10	QPSK	1	25	22.83	22.87	22.84	23.8	0
10	QPSK	1	49	22.80	22.90	22.82		
10	QPSK	25	0	21.92	22.00	21.98		
10	QPSK	25	12	21.95	21.98	22.02	22.8	1
10	QPSK	25	25	22.00	21.98	22.02		
10	QPSK	50	0	21.97	21.96	22.01		
10	16QAM	1	0	22.21	22.32	22.22		
10	16QAM	1	25	22.25	22.32	22.24	22.8	1
10	16QAM	1	49	22.21	22.28	22.23		
10	16QAM	25	0	20.93	21.02	20.93		
10	16QAM	25	12	20.99	21.00	21.04	21.8	2
10	16QAM	25	25	20.96	20.94	21.01		
10	16QAM	50	0	20.97	20.96	21.02		
10	64QAM	1	0	21.10	21.25	21.19		
10	64QAM	1	25	21.10	21.24	21.18	21.8	2
10	64QAM	1	49	21.16	21.14	21.02		
10	64QAM	25	0	19.96	20.04	20.01		
10	64QAM	25	12	20.02	20.02	20.05	20.8	3
10	64QAM	25	25	20.01	20.01	20.03		
10	64QAM	50	0	20.04	19.99	20.05		
10	256QAM	1	0	18.05	18.08	18.02		
10	256QAM	1	25	17.83	17.97	17.97	19.3	4.5
10	256QAM	1	49	17.89	17.97	18.11		
10	256QAM	25	0	17.70	17.57	17.47		
10	256QAM	25	12	17.65	17.75	17.72	19.3	4.5
10	256QAM	25	25	17.72	17.64	17.64		
10	256QAM	50	0	17.77	17.70	17.60		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	22.80	22.85	22.82		
5	QPSK	1	12	22.89	22.92	22.85	23.8	0
5	QPSK	1	24	22.86	22.89	22.86		
5	QPSK	12	0	21.90	21.98	21.94		
5	QPSK	12	7	21.98	21.99	21.96	22.8	1
5	QPSK	12	13	21.96	21.91	21.95		
5	QPSK	25	0	21.93	21.91	21.93		
5	16QAM	1	0	22.19	22.25	22.20		
5	16QAM	1	12	22.22	22.23	22.14	22.8	1
5	16QAM	1	24	22.21	22.19	22.21		
5	16QAM	12	0	20.96	20.95	20.93		
5	16QAM	12	7	20.95	21.02	20.96	21.8	2
5	16QAM	12	13	20.94	20.92	20.94		
5	16QAM	25	0	20.97	20.93	20.95		
5	64QAM	1	0	21.11	21.18	21.12		
5	64QAM	1	12	21.09	21.16	21.08	21.8	2
5	64QAM	1	24	21.16	21.15	21.15		
5	64QAM	12	0	20.01	20.07	20.00		
5	64QAM	12	7	20.04	20.09	20.00	20.8	3
5	64QAM	12	13	20.01	20.02	20.03		
5	64QAM	25	0	19.94	19.96	19.95		
5	256QAM	1	0	18.01	18.11	18.10		
5	256QAM	1	12	17.93	18.08	18.02	19.3	4.5
5	256QAM	1	24	17.86	18.03	17.93		
5	256QAM	12	0	17.56	17.55	17.55		
5	256QAM	12	7	17.73	17.84	17.76	19.3	4.5
5	256QAM	12	13	17.80	17.60	17.78		
5	256QAM	25	0	17.67	17.68	17.60		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	22.83	22.89	22.83		
3	QPSK	1	8	22.87	22.92	22.90	23.8	0
3	QPSK	1	14	22.86	22.85	22.86		
3	QPSK	8	0	21.91	21.96	21.90		
3	QPSK	8	4	21.95	21.99	21.93	22.8	1
3	QPSK	8	7	21.92	21.90	21.91		
3	QPSK	15	0	21.93	21.90	21.94		
3	16QAM	1	0	22.17	22.18	22.16		
3	16QAM	1	8	22.26	22.30	22.22	22.8	1
3	16QAM	1	14	22.21	22.22	22.18		
3	16QAM	8	0	20.97	21.01	20.93		
3	16QAM	8	4	21.00	21.06	21.02	21.8	2
3	16QAM	8	7	21.00	21.00	21.01		
3	16QAM	15	0	20.96	20.91	20.94		
3	64QAM	1	0	21.09	21.17	21.06		
3	64QAM	1	8	21.17	21.21	21.19	21.8	2
3	64QAM	1	14	21.17	21.12	21.12		
3	64QAM	8	0	19.98	20.00	19.95		
3	64QAM	8	4	20.02	20.09	20.03	20.8	3
3	64QAM	8	7	19.99	19.99	19.98		
3	64QAM	15	0	19.94	19.92	19.97		
3	256QAM	1	0	17.98	18.15	18.09		
3	256QAM	1	8	17.91	18.16	18.00	19.3	4.5
3	256QAM	1	14	17.95	18.01	17.97		
3	256QAM	8	0	17.60	17.62	17.63		
3	256QAM	8	4	17.68	17.80	17.80	19.3	4.5
3	256QAM	8	7	17.81	17.61	17.62		
3	256QAM	15	0	17.68	17.61	17.66		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	22.86	22.80	22.81		
1.4	QPSK	1	3	22.80	22.88	22.83		
1.4	QPSK	1	5	22.87	22.80	22.82	23.8	0
1.4	QPSK	3	0	22.84	22.80	22.84		
1.4	QPSK	3	1	22.81	22.89	22.83		
1.4	QPSK	3	3	22.80	22.81	22.87		
1.4	QPSK	6	0	21.87	21.83	21.87	22.8	1
1.4	16QAM	1	0	22.07	22.17	22.07		
1.4	16QAM	1	3	22.18	22.22	22.14		
1.4	16QAM	1	5	22.11	22.12	22.09	22.8	1
1.4	16QAM	3	0	21.85	21.92	21.84		
1.4	16QAM	3	1	21.92	21.99	21.88		
1.4	16QAM	3	3	21.88	21.88	21.85		
1.4	16QAM	6	0	20.84	20.98	20.90	21.8	2
1.4	64QAM	1	0	21.04	21.11	20.99		
1.4	64QAM	1	3	21.10	21.14	21.07		
1.4	64QAM	1	5	21.01	21.06	21.00	21.8	2
1.4	64QAM	3	0	20.99	21.02	20.97		
1.4	64QAM	3	1	21.04	21.06	21.03		
1.4	64QAM	3	3	20.96	21.03	20.98		
1.4	64QAM	6	0	19.84	19.90	19.87	20.8	3
1.4	256QAM	1	0	18.03	18.16	18.03		
1.4	256QAM	1	3	17.94	18.16	17.91		
1.4	256QAM	1	5	18.04	17.96	17.96	19.3	4.5
1.4	256QAM	3	0	17.57	17.55	17.63		
1.4	256QAM	3	1	17.59	17.76	17.68		
1.4	256QAM	3	3	17.73	17.75	17.79		
1.4	256QAM	6	0	17.74	17.70	17.58	19.3	4.5

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)				1720	1745	1770		
20	QPSK	1	0	22.88	23.04	23.00		
20	QPSK	1	49	22.86	22.89	22.92	23.8	0
20	QPSK	1	99	22.82	22.84	22.84		
20	QPSK	50	0	22.03	22.15	22.14		
20	QPSK	50	24	22.00	22.09	22.12	22.8	1
20	QPSK	50	50	21.93	21.94	22.05		
20	QPSK	100	0	22.01	22.12	22.11		
20	16QAM	1	0	22.27	22.34	22.40		
20	16QAM	1	49	22.21	22.28	22.29	22.8	1
20	16QAM	1	99	22.14	22.19	22.17		
20	16QAM	50	0	21.04	21.13	21.15		
20	16QAM	50	24	21.03	21.11	21.15	21.8	2
20	16QAM	50	50	20.93	21.02	21.05		
20	16QAM	100	0	20.99	21.08	21.09		
20	64QAM	1	0	21.15	21.26	21.23		
20	64QAM	1	49	21.12	21.13	21.16	21.8	2
20	64QAM	1	99	20.95	21.07	20.93		
20	64QAM	50	0	20.07	20.16	20.19		
20	64QAM	50	24	20.05	20.14	20.19	20.8	3
20	64QAM	50	50	19.96	20.02	20.08		
20	64QAM	100	0	20.05	20.10	20.11		
20	256QAM	1	0	18.05	17.88	17.96		
20	256QAM	1	49	17.98	17.98	18.02	19.3	4.5
20	256QAM	1	99	17.92	18.02	17.96		
20	256QAM	50	0	17.76	17.80	17.80		
20	256QAM	50	24	17.89	17.86	17.86	19.3	4.5
20	256QAM	50	50	17.87	17.78	17.81		
20	256QAM	100	0	17.86	17.77	17.82		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	22.86	22.96	23.03		
15	QPSK	1	37	22.85	22.95	22.93	23.8	0
15	QPSK	1	74	22.85	22.87	22.88		
15	QPSK	36	0	22.01	22.08	22.11		
15	QPSK	36	20	21.96	22.08	22.09	22.8	1
15	QPSK	36	39	21.94	22.00	22.05		
15	QPSK	75	0	21.91	22.06	22.07		
15	16QAM	1	0	22.18	22.27	22.32		
15	16QAM	1	37	22.20	22.26	22.23	22.8	1
15	16QAM	1	74	22.11	22.21	22.12		
15	16QAM	36	0	21.00	21.09	21.12		
15	16QAM	36	20	20.96	21.10	21.10	21.8	2
15	16QAM	36	39	20.90	20.99	21.02		
15	16QAM	75	0	20.90	21.05	21.08		
15	64QAM	1	0	21.10	21.16	21.26		
15	64QAM	1	37	21.10	21.20	21.18	21.8	2
15	64QAM	1	74	20.97	21.04	20.96		
15	64QAM	36	0	20.05	20.13	20.18		
15	64QAM	36	20	20.01	20.17	20.19	20.8	3
15	64QAM	36	39	19.96	20.00	20.10		
15	64QAM	75	0	19.96	20.12	20.10		
15	256QAM	1	0	18.05	17.88	17.96		
15	256QAM	1	37	17.98	17.98	18.02	19.3	4.5
15	256QAM	1	74	17.92	18.02	17.96		
15	256QAM	36	0	17.76	17.80	17.80		
15	256QAM	36	20	17.89	17.86	17.86	19.3	4.5
15	256QAM	36	39	17.87	17.78	17.81		
15	256QAM	75	0	17.86	17.77	17.82		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	22.89	22.91	22.91		
10	QPSK	1	25	22.81	22.84	22.82	23.8	0
10	QPSK	1	49	22.81	22.83	22.84		
10	QPSK	25	0	21.99	22.06	22.03		
10	QPSK	25	12	21.97	22.07	22.06	22.8	1
10	QPSK	25	25	21.88	22.02	22.00		
10	QPSK	50	0	21.99	22.06	22.01		
10	16QAM	1	0	22.26	22.35	22.31		
10	16QAM	1	25	22.17	22.28	22.21	22.8	1
10	16QAM	1	49	22.17	22.26	22.20		
10	16QAM	25	0	20.94	21.06	21.04		
10	16QAM	25	12	20.96	21.07	21.02	21.8	2
10	16QAM	25	25	20.91	21.02	20.96		
10	16QAM	50	0	20.97	21.06	21.01		
10	64QAM	1	0	21.12	21.22	21.17		
10	64QAM	1	25	21.14	21.23	21.19	21.8	2
10	64QAM	1	49	20.96	21.16	21.03		
10	64QAM	25	0	20.00	20.10	20.09		
10	64QAM	25	12	20.03	20.11	20.10	20.8	3
10	64QAM	25	25	19.89	20.05	20.02		
10	64QAM	50	0	20.00	20.07	20.04		
10	256QAM	1	0	18.05	17.88	17.96		
10	256QAM	1	25	17.98	17.98	18.02	19.3	4.5
10	256QAM	1	49	17.92	18.02	17.96		
10	256QAM	25	0	17.76	17.80	17.80		
10	256QAM	25	12	17.89	17.86	17.86	19.3	4.5
10	256QAM	25	25	17.87	17.78	17.81		
10	256QAM	50	0	17.86	17.77	17.82		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	22.88	22.93	22.90		
5	QPSK	1	12	22.89	22.98	23.00	23.8	0
5	QPSK	1	24	22.82	22.91	22.86		
5	QPSK	12	0	21.98	22.09	22.01		
5	QPSK	12	7	21.92	22.11	22.03	22.8	1
5	QPSK	12	13	21.88	22.04	21.99		
5	QPSK	25	0	21.92	22.03	22.00		
5	16QAM	1	0	22.20	22.29	22.26		
5	16QAM	1	12	22.22	22.33	22.28	22.8	1
5	16QAM	1	24	22.11	22.29	22.23		
5	16QAM	12	0	20.95	21.05	21.07		
5	16QAM	12	7	20.92	21.09	21.07	21.8	2
5	16QAM	12	13	20.89	21.08	21.04		
5	16QAM	25	0	20.94	21.09	21.04		
5	64QAM	1	0	21.14	21.21	21.18		
5	64QAM	1	12	21.10	21.19	21.13	21.8	2
5	64QAM	1	24	21.01	21.15	21.14		
5	64QAM	12	0	20.02	20.14	20.14		
5	64QAM	12	7	20.03	20.18	20.14	20.8	3
5	64QAM	12	13	19.97	20.12	20.08		
5	64QAM	25	0	19.94	20.09	20.06		
5	256QAM	1	0	18.05	17.88	17.96		
5	256QAM	1	12	17.98	17.98	18.02	19.3	4.5
5	256QAM	1	24	17.92	18.02	17.96		
5	256QAM	12	0	17.76	17.80	17.80		
5	256QAM	12	7	17.89	17.86	17.86	19.3	4.5
5	256QAM	12	13	17.87	17.78	17.81		
5	256QAM	25	0	17.86	17.77	17.82		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	22.85	22.95	22.90		
3	QPSK	1	8	22.92	23.01	22.95	23.8	0
3	QPSK	1	14	22.83	22.92	22.90		
3	QPSK	8	0	21.94	22.01	22.00		
3	QPSK	8	4	21.97	22.09	22.06	22.8	1
3	QPSK	8	7	21.92	22.02	22.02		
3	QPSK	15	0	21.93	22.05	22.03		
3	16QAM	1	0	22.23	22.31	22.31		
3	16QAM	1	8	22.23	22.35	22.36	22.8	1
3	16QAM	1	14	22.20	22.28	22.26		
3	16QAM	8	0	21.02	21.12	21.09		
3	16QAM	8	4	21.05	21.10	21.12	21.8	2
3	16QAM	8	7	21.00	21.11	21.07		
3	16QAM	15	0	20.98	21.06	21.07		
3	64QAM	1	0	21.11	21.24	21.17		
3	64QAM	1	8	21.20	21.25	21.22	21.8	2
3	64QAM	1	14	21.12	21.17	21.16		
3	64QAM	8	0	20.05	20.12	20.11		
3	64QAM	8	4	20.09	20.16	20.11	20.8	3
3	64QAM	8	7	19.99	20.11	20.09		
3	64QAM	15	0	19.98	20.10	20.04		
3	256QAM	1	0	18.05	17.88	17.96		
3	256QAM	1	8	17.98	17.98	18.02	19.3	4.5
3	256QAM	1	14	17.92	18.02	17.96		
3	256QAM	8	0	17.76	17.80	17.80		
3	256QAM	8	4	17.89	17.86	17.86	19.3	4.5
3	256QAM	8	7	17.87	17.78	17.81		
3	256QAM	15	0	17.86	17.77	17.82		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	22.80	22.87	22.84		
1.4	QPSK	1	3	22.80	22.94	22.89		
1.4	QPSK	1	5	22.81	22.86	22.83	23.8	0
1.4	QPSK	3	0	22.82	22.89	22.89		
1.4	QPSK	3	1	22.81	22.94	22.91		
1.4	QPSK	3	3	22.84	22.85	22.86		
1.4	QPSK	6	0	21.84	21.99	21.93	22.8	1
1.4	16QAM	1	0	22.11	22.21	22.19		
1.4	16QAM	1	3	22.17	22.24	22.27		
1.4	16QAM	1	5	22.07	22.21	22.18	22.8	1
1.4	16QAM	3	0	21.88	21.99	21.98		
1.4	16QAM	3	1	21.89	22.01	21.98		
1.4	16QAM	3	3	21.84	21.98	21.95		
1.4	16QAM	6	0	20.91	21.07	21.03	21.8	2
1.4	64QAM	1	0	21.03	21.11	21.13		
1.4	64QAM	1	3	21.17	21.18	21.18		
1.4	64QAM	1	5	21.06	21.12	21.10	21.8	2
1.4	64QAM	3	0	21.01	21.10	21.09		
1.4	64QAM	3	1	21.05	21.18	21.14		
1.4	64QAM	3	3	21.04	21.12	21.08		
1.4	64QAM	6	0	19.91	20.01	19.97	20.8	3
1.4	256QAM	1	0	18.05	17.88	17.96		
1.4	256QAM	1	3	17.98	17.98	18.02		
1.4	256QAM	1	5	17.92	18.02	17.96	19.3	4.5
1.4	256QAM	3	0	17.76	17.80	17.80		
1.4	256QAM	3	1	17.89	17.86	17.86		
1.4	256QAM	3	3	17.87	17.78	17.81		
1.4	256QAM	6	0	17.86	17.77	17.82	19.3	4.5

Reduced power level 1/2/3/4 for Head - Ant0

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				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	18.87	19.03	18.88		
20	QPSK	1	49	18.86	18.90	18.86	19.8	0
20	QPSK	1	99	18.82	18.85	18.80		
20	QPSK	50	0	18.91	19.01	18.99		
20	QPSK	50	24	18.90	18.91	18.92	19.8	0
20	QPSK	50	50	18.86	18.97	18.97		
20	QPSK	100	0	18.96	18.98	18.93		
20	16QAM	1	0	18.90	18.91	18.91		
20	16QAM	1	49	18.87	18.92	18.93	19.8	0
20	16QAM	1	99	18.91	18.94	18.86		
20	16QAM	50	0	18.88	18.91	18.90		
20	16QAM	50	24	18.90	18.87	18.93	19.8	0
20	16QAM	50	50	18.93	18.89	18.92		
20	16QAM	100	0	18.90	18.93	18.87		
20	64QAM	1	0	18.92	18.93	18.93		
20	64QAM	1	49	18.88	18.86	18.88	19.8	0
20	64QAM	1	99	18.89	18.86	18.89		
20	64QAM	50	0	18.90	18.93	18.90		
20	64QAM	50	24	18.87	18.89	18.94	19.8	0
20	64QAM	50	50	18.93	18.87	18.86		
20	64QAM	100	0	18.93	18.95	18.89		
20	256QAM	1	0	17.72	17.84	17.76		
20	256QAM	1	49	17.59	17.79	17.70	19.3	0.5
20	256QAM	1	99	17.67	17.75	17.74		
20	256QAM	50	0	17.38	17.38	17.34		
20	256QAM	50	24	17.41	17.49	17.44	19.3	0.5
20	256QAM	50	50	17.44	17.42	17.43		
20	256QAM	100	0	17.40	17.43	17.39		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	18.86	18.91	18.87		
15	QPSK	1	37	18.81	18.86	18.86	19.8	0
15	QPSK	1	74	18.86	18.86	18.87		
15	QPSK	36	0	18.94	18.90	18.97		
15	QPSK	36	20	18.88	18.88	18.92	19.8	0
15	QPSK	36	39	18.89	18.94	18.94		
15	QPSK	75	0	18.87	18.93	18.91		
15	16QAM	1	0	18.00	18.92	18.96		
15	16QAM	1	37	18.94	18.92	18.96	19.8	0
15	16QAM	1	74	18.90	18.89	18.96		
15	16QAM	36	0	18.94	18.90	18.97		
15	16QAM	36	20	18.91	18.95	18.92	19.8	0
15	16QAM	36	39	18.91	18.89	18.93		
15	16QAM	75	0	18.90	18.94	18.90		
15	64QAM	1	0	18.89	18.93	18.93		
15	64QAM	1	37	18.88	18.93	18.92	19.8	0
15	64QAM	1	74	18.90	18.91	18.91		
15	64QAM	36	0	18.88	18.88	18.95		
15	64QAM	36	20	18.93	18.92	18.95	19.8	0
15	64QAM	36	39	18.95	18.89	18.96		
15	64QAM	75	0	18.90	18.97	18.93		
15	256QAM	1	0	17.72	17.76	17.69		
15	256QAM	1	37	17.68	17.85	17.82	19.3	0.5
15	256QAM	1	74	17.65	17.71	17.79		
15	256QAM	36	0	17.42	17.38	17.46		
15	256QAM	36	20	17.52	17.57	17.48	19.3	0.5
15	256QAM	36	39	17.40	17.35	17.51		
15	256QAM	75	0	17.40	17.43	17.45		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	18.83	18.91	18.83		
10	QPSK	1	25	18.83	18.87	18.84	19.8	0
10	QPSK	1	49	18.80	18.90	18.82		
10	QPSK	25	0	18.92	19.00	18.98		
10	QPSK	25	12	18.95	18.98	18.92	19.8	0
10	QPSK	25	25	19.00	18.98	18.92		
10	QPSK	50	0	18.97	18.96	18.91		
10	16QAM	1	0	18.91	18.92	18.92		
10	16QAM	1	25	18.95	18.92	18.94	19.8	0
10	16QAM	1	49	18.91	18.98	18.93		
10	16QAM	25	0	18.93	18.92	18.93		
10	16QAM	25	12	18.99	19.00	18.94	19.8	0
10	16QAM	25	25	18.96	18.94	18.91		
10	16QAM	50	0	18.97	18.96	18.92		
10	64QAM	1	0	18.90	18.95	18.99		
10	64QAM	1	25	18.90	18.94	18.98	19.8	0
10	64QAM	1	49	18.96	18.94	18.92		
10	64QAM	25	0	18.96	18.94	18.91		
10	64QAM	25	12	18.92	18.92	18.95	19.8	0
10	64QAM	25	25	18.91	18.91	18.93		
10	64QAM	50	0	18.94	18.99	18.95		
10	256QAM	1	0	17.82	17.85	17.79		
10	256QAM	1	25	17.60	17.74	17.74	19.3	0.5
10	256QAM	1	49	17.66	17.74	17.88		
10	256QAM	25	0	17.47	17.34	17.34		
10	256QAM	25	12	17.42	17.52	17.49	19.3	0.5
10	256QAM	25	25	17.49	17.41	17.41		
10	256QAM	50	0	17.54	17.47	17.37		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	18.83	19.00	18.85		
5	QPSK	1	12	18.92	18.95	18.88	19.8	0
5	QPSK	1	24	18.89	18.92	18.89		
5	QPSK	12	0	18.93	19.01	18.97		
5	QPSK	12	7	19.01	19.02	18.99	19.8	0
5	QPSK	12	13	18.99	18.94	18.98		
5	QPSK	25	0	18.96	18.94	18.96		
5	16QAM	1	0	19.02	18.98	18.93		
5	16QAM	1	12	18.95	18.96	18.97	19.8	0
5	16QAM	1	24	18.94	19.02	18.94		
5	16QAM	12	0	18.99	18.98	18.96		
5	16QAM	12	7	18.98	18.95	18.99	19.8	0
5	16QAM	12	13	18.97	18.95	18.97		
5	16QAM	25	0	19.00	18.96	18.98		
5	64QAM	1	0	18.94	19.01	18.95		
5	64QAM	1	12	19.02	18.99	19.01	19.8	0
5	64QAM	1	24	18.99	18.98	18.98		
5	64QAM	12	0	18.94	19.00	19.03		
5	64QAM	12	7	18.97	19.02	19.03	19.8	0
5	64QAM	12	13	18.94	18.95	18.96		
5	64QAM	25	0	18.97	18.99	18.98		
5	256QAM	1	0	17.81	17.91	17.90		
5	256QAM	1	12	17.73	17.88	17.82	19.3	0.5
5	256QAM	1	24	17.66	17.83	17.73		
5	256QAM	12	0	17.36	17.35	17.35		
5	256QAM	12	7	17.53	17.64	17.56	19.3	0.5
5	256QAM	12	13	17.60	17.40	17.58		
5	256QAM	25	0	17.47	17.48	17.40		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	18.79	18.87	18.79		
3	QPSK	1	8	18.83	18.88	18.86	19.8	0
3	QPSK	1	14	18.82	18.81	18.82		
3	QPSK	8	0	18.87	18.92	18.86		
3	QPSK	8	4	18.91	18.95	18.89	19.8	0
3	QPSK	8	7	18.88	18.86	18.87		
3	QPSK	15	0	18.89	18.86	18.90		
3	16QAM	1	0	18.93	18.94	18.92		
3	16QAM	1	8	18.92	18.96	18.88	19.8	0
3	16QAM	1	14	18.87	18.88	18.94		
3	16QAM	8	0	18.93	18.87	18.89		
3	16QAM	8	4	18.96	18.92	18.88	19.8	0
3	16QAM	8	7	18.96	18.96	18.87		
3	16QAM	15	0	18.92	18.87	18.90		
3	64QAM	1	0	18.95	18.93	18.92		
3	64QAM	1	8	18.93	18.87	18.95	19.8	0
3	64QAM	1	14	18.93	18.88	18.88		
3	64QAM	8	0	18.94	18.96	18.91		
3	64QAM	8	4	18.88	18.95	18.89	19.8	0
3	64QAM	8	7	18.95	18.95	18.94		
3	64QAM	15	0	18.90	18.88	18.93		
3	256QAM	1	0	17.71	17.88	17.82		
3	256QAM	1	8	17.64	17.89	17.73	19.3	0.5
3	256QAM	1	14	17.68	17.74	17.70		
3	256QAM	8	0	17.33	17.35	17.36		
3	256QAM	8	4	17.41	17.53	17.53	19.3	0.5
3	256QAM	8	7	17.54	17.34	17.35		
3	256QAM	15	0	17.41	17.34	17.39		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	18.89	18.95	18.84		
1.4	QPSK	1	3	18.83	18.91	18.86		
1.4	QPSK	1	5	18.90	18.83	18.85	19.8	0
1.4	QPSK	3	0	18.97	18.93	18.97		
1.4	QPSK	3	1	18.94	19.02	18.96		
1.4	QPSK	3	3	18.93	18.94	19.00		
1.4	QPSK	6	0	18.90	18.96	18.90	19.8	0
1.4	16QAM	1	0	19.00	19.00	19.00		
1.4	16QAM	1	3	19.01	18.95	18.97		
1.4	16QAM	1	5	18.94	18.95	19.02	19.8	0
1.4	16QAM	3	0	18.98	18.75	18.97		
1.4	16QAM	3	1	18.75	18.82	19.01		
1.4	16QAM	3	3	19.01	19.01	18.98		
1.4	16QAM	6	0	18.87	19.01	18.93	19.8	0
1.4	64QAM	1	0	18.97	18.94	19.02		
1.4	64QAM	1	3	18.93	18.97	19.00		
1.4	64QAM	1	5	18.94	18.99	19.03	19.8	0
1.4	64QAM	3	0	18.82	18.85	18.80		
1.4	64QAM	3	1	18.87	18.89	18.86		
1.4	64QAM	3	3	18.79	18.86	18.81		
1.4	64QAM	6	0	18.87	18.93	18.90	19.8	0
1.4	256QAM	1	0	17.83	17.96	17.83		
1.4	256QAM	1	3	17.74	17.96	17.71		
1.4	256QAM	1	5	17.84	17.76	17.76	19.3	0.5
1.4	256QAM	3	0	17.37	17.35	17.43		
1.4	256QAM	3	1	17.39	17.56	17.48		
1.4	256QAM	3	3	17.53	17.55	17.59		
1.4	256QAM	6	0	17.54	17.50	17.38	19.3	0.5

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)				1720	1745	1770		
20	QPSK	1	0	18.87	19.07	18.88		
20	QPSK	1	49	18.84	18.90	18.82	19.8	0
20	QPSK	1	99	18.74	18.68	18.83		
20	QPSK	50	0	18.83	19.02	18.97		
20	QPSK	50	24	18.76	18.96	18.98	19.8	0
20	QPSK	50	50	18.79	18.66	18.84		
20	QPSK	100	0	18.91	18.96	18.81		
20	16QAM	1	0	18.77	18.81	19.01		
20	16QAM	1	49	18.77	18.86	18.82	19.8	0
20	16QAM	1	99	18.95	18.90	18.98		
20	16QAM	50	0	18.75	18.77	18.82		
20	16QAM	50	24	18.96	18.83	18.80	19.8	0
20	16QAM	50	50	18.80	18.92	18.99		
20	16QAM	100	0	18.87	18.99	18.94		
20	64QAM	1	0	19.02	19.00	18.95		
20	64QAM	1	49	18.81	18.80	18.86	19.8	0
20	64QAM	1	99	18.79	18.64	18.75		
20	64QAM	50	0	18.89	18.96	18.72		
20	64QAM	50	24	18.87	18.79	19.00	19.8	0
20	64QAM	50	50	18.86	18.84	18.73		
20	64QAM	100	0	19.03	19.01	18.73		
20	256QAM	1	0	17.50	17.66	17.68		
20	256QAM	1	49	17.66	17.81	17.49	19.3	0.5
20	256QAM	1	99	17.70	17.58	17.73		
20	256QAM	50	0	17.37	17.53	17.45		
20	256QAM	50	24	17.43	17.42	17.35	19.3	0.5
20	256QAM	50	50	17.45	17.58	17.42		
20	256QAM	100	0	17.36	17.46	17.30		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	18.68	18.85	18.84		
15	QPSK	1	37	18.92	18.77	18.89	19.8	0
15	QPSK	1	74	18.77	18.88	18.90		
15	QPSK	36	0	18.63	18.68	18.89		
15	QPSK	36	20	19.00	18.78	18.73	19.8	0
15	QPSK	36	39	18.83	18.86	18.91		
15	QPSK	75	0	18.93	18.83	18.79		
15	16QAM	1	0	19.01	19.00	18.91		
15	16QAM	1	37	18.86	18.78	18.82	19.8	0
15	16QAM	1	74	18.72	18.77	18.87		
15	16QAM	36	0	18.96	18.96	18.87		
15	16QAM	36	20	18.83	18.69	18.85	19.8	0
15	16QAM	36	39	18.80	18.88	18.67		
15	16QAM	75	0	18.94	18.65	18.88		
15	64QAM	1	0	18.99	18.96	18.90		
15	64QAM	1	37	18.76	18.79	18.83	19.8	0
15	64QAM	1	74	18.80	18.70	18.97		
15	64QAM	36	0	18.69	18.75	18.89		
15	64QAM	36	20	18.85	18.88	18.87	19.8	0
15	64QAM	36	39	18.79	19.00	18.80		
15	64QAM	75	0	18.77	18.85	18.74		
15	256QAM	1	0	17.76	17.62	17.66		
15	256QAM	1	37	17.71	17.68	17.83	19.3	0.5
15	256QAM	1	74	17.81	17.76	17.62		
15	256QAM	36	0	17.38	17.72	17.49		
15	256QAM	36	20	17.56	17.64	17.51	19.3	0.5
15	256QAM	36	39	17.79	17.45	17.68		
15	256QAM	75	0	17.49	17.62	17.67		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	18.94	18.90	18.73		
10	QPSK	1	25	18.74	18.82	18.70	19.8	0
10	QPSK	1	49	18.76	18.67	18.70		
10	QPSK	25	0	18.63	18.78	18.97		
10	QPSK	25	12	18.83	18.94	18.83	19.8	0
10	QPSK	25	25	18.74	18.80	18.84		
10	QPSK	50	0	18.71	18.74	18.68		
10	16QAM	1	0	18.95	18.89	18.91		
10	16QAM	1	25	18.74	18.86	18.89	19.8	0
10	16QAM	1	49	18.97	18.78	18.90		
10	16QAM	25	0	19.00	18.71	18.89		
10	16QAM	25	12	18.79	18.99	18.94	19.8	0
10	16QAM	25	25	18.83	18.97	18.68		
10	16QAM	50	0	18.94	18.93	18.67		
10	64QAM	1	0	18.70	18.76	18.84		
10	64QAM	1	25	18.77	18.93	18.84	19.8	0
10	64QAM	1	49	18.83	18.69	18.95		
10	64QAM	25	0	18.82	18.85	18.87		
10	64QAM	25	12	18.71	18.80	18.79	19.8	0
10	64QAM	25	25	18.81	18.81	18.81		
10	64QAM	50	0	18.85	18.76	18.94		
10	256QAM	1	0	17.81	17.49	17.72		
10	256QAM	1	25	17.69	17.68	17.81	19.3	0.5
10	256QAM	1	49	17.72	17.74	17.67		
10	256QAM	25	0	17.42	17.38	17.63		
10	256QAM	25	12	17.68	17.53	17.49	19.3	0.5
10	256QAM	25	25	17.74	17.65	17.59		
10	256QAM	50	0	17.48	17.34	17.69		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	18.83	18.79	18.88		
5	QPSK	1	12	18.78	18.76	18.90	19.8	0
5	QPSK	1	24	18.69	18.87	18.87		
5	QPSK	12	0	18.61	18.84	18.94		
5	QPSK	12	7	18.86	18.90	18.68	19.8	0
5	QPSK	12	13	18.76	18.87	18.81		
5	QPSK	25	0	18.87	18.94	18.67		
5	16QAM	1	0	18.87	18.77	18.74		
5	16QAM	1	12	18.83	19.03	18.84	19.8	0
5	16QAM	1	24	18.81	19.00	18.85		
5	16QAM	12	0	18.82	18.86	18.84		
5	16QAM	12	7	18.96	18.85	18.89	19.8	0
5	16QAM	12	13	18.92	18.88	18.88		
5	16QAM	25	0	18.77	18.66	18.94		
5	64QAM	1	0	18.96	19.04	18.94		
5	64QAM	1	12	18.76	18.97	18.94	19.8	0
5	64QAM	1	24	18.86	18.65	18.86		
5	64QAM	12	0	18.89	18.74	19.03		
5	64QAM	12	7	18.69	18.87	18.81	19.8	0
5	64QAM	12	13	18.96	19.00	18.93		
5	64QAM	25	0	18.77	18.97	18.73		
5	256QAM	1	0	17.48	17.46	17.58		
5	256QAM	1	12	17.65	17.56	17.53	19.3	0.5
5	256QAM	1	24	17.45	17.48	17.43		
5	256QAM	12	0	17.40	17.50	17.52		
5	256QAM	12	7	17.55	17.46	17.32	19.3	0.5
5	256QAM	12	13	17.46	17.34	17.39		
5	256QAM	25	0	17.39	17.39	17.32		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	18.65	18.95	18.92		
3	QPSK	1	8	18.74	18.78	18.88	19.8	0
3	QPSK	1	14	18.92	18.74	18.77		
3	QPSK	8	0	18.88	18.72	18.93		
3	QPSK	8	4	19.03	18.71	18.77	19.8	0
3	QPSK	8	7	18.76	18.93	18.76		
3	QPSK	15	0	18.91	18.75	18.73		
3	16QAM	1	0	18.95	19.03	18.80		
3	16QAM	1	8	18.78	18.96	18.94	19.8	0
3	16QAM	1	14	19.00	18.87	18.83		
3	16QAM	8	0	19.00	18.89	18.75		
3	16QAM	8	4	19.00	18.86	18.88	19.8	0
3	16QAM	8	7	18.82	19.05	18.83		
3	16QAM	15	0	18.88	18.92	18.88		
3	64QAM	1	0	18.96	19.02	19.02		
3	64QAM	1	8	18.98	18.86	18.82	19.8	0
3	64QAM	1	14	18.79	18.77	19.05		
3	64QAM	8	0	18.87	18.92	18.89		
3	64QAM	8	4	18.90	18.90	18.80	19.8	0
3	64QAM	8	7	18.75	18.85	18.90		
3	64QAM	15	0	18.95	18.91	18.96		
3	256QAM	1	0	17.65	17.31	17.59		
3	256QAM	1	8	17.57	17.52	17.47	19.3	0.5
3	256QAM	1	14	17.54	17.57	17.59		
3	256QAM	8	0	17.40	17.33	17.38		
3	256QAM	8	4	17.49	17.45	17.46	19.3	0.5
3	256QAM	8	7	17.31	17.39	17.34		
3	256QAM	15	0	17.52	17.41	17.34		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	18.67	18.76	18.68		
1.4	QPSK	1	3	18.83	18.80	18.82		
1.4	QPSK	1	5	18.86	18.93	18.77	19.8	0
1.4	QPSK	3	0	18.83	18.72	18.81		
1.4	QPSK	3	1	18.81	18.83	18.82		
1.4	QPSK	3	3	18.91	18.79	18.91		
1.4	QPSK	6	0	18.70	18.77	18.71	19.8	0
1.4	16QAM	1	0	19.01	18.95	18.91		
1.4	16QAM	1	3	18.69	18.92	18.94		
1.4	16QAM	1	5	18.93	18.71	18.88	19.8	0
1.4	16QAM	3	0	18.82	18.87	18.71		
1.4	16QAM	3	1	18.81	18.83	18.71		
1.4	16QAM	3	3	18.76	18.79	18.85		
1.4	16QAM	6	0	18.96	18.79	18.73	19.8	0
1.4	64QAM	1	0	18.82	19.00	18.76		
1.4	64QAM	1	3	18.92	18.72	18.96		
1.4	64QAM	1	5	18.77	18.68	18.87	19.8	0
1.4	64QAM	3	0	18.70	18.95	18.82		
1.4	64QAM	3	1	18.67	18.95	18.85		
1.4	64QAM	3	3	18.75	18.79	18.75		
1.4	64QAM	6	0	18.77	18.89	18.81	19.8	0
1.4	256QAM	1	0	17.63	17.46	17.68		
1.4	256QAM	1	3	17.51	17.59	17.63		
1.4	256QAM	1	5	17.64	17.47	17.61	19.3	0.5
1.4	256QAM	3	0	17.42	17.38	17.40		
1.4	256QAM	3	1	17.31	17.41	17.50		
1.4	256QAM	3	3	17.49	17.32	17.38		
1.4	256QAM	6	0	17.47	17.43	17.50	19.3	0.5

Reduced power for Hotspot on - ANT0

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				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	19.87	20.07	19.88	20.8	0
20	QPSK	1	49	19.86	19.90	19.86		
20	QPSK	1	99	19.82	19.85	19.80		
20	QPSK	50	0	19.98	20.02	19.96	20.8	0
20	QPSK	50	24	19.90	19.98	19.99		
20	QPSK	50	50	19.93	19.94	19.94		
20	QPSK	100	0	19.93	20.01	20.00		
20	16QAM	1	0	19.85	19.86	19.86	20.8	0
20	16QAM	1	49	19.92	19.87	19.88		
20	16QAM	1	99	19.86	19.89	19.91		
20	16QAM	50	0	20.02	19.85	19.84	20.8	0
20	16QAM	50	24	19.94	20.01	19.87		
20	16QAM	50	50	19.97	20.03	19.96		
20	16QAM	100	0	19.94	19.97	20.01		
20	64QAM	1	0	19.86	19.87	19.87	20.8	0
20	64QAM	1	49	19.92	19.90	19.92		
20	64QAM	1	99	20.03	20.00	20.03		
20	64QAM	50	0	19.95	19.98	19.95	20.8	0
20	64QAM	50	24	19.92	19.94	19.99		
20	64QAM	50	50	19.88	19.92	19.91		
20	64QAM	100	0	19.88	19.90	19.94		
20	256QAM	1	0	17.91	18.03	17.95	19.3	1.5
20	256QAM	1	49	17.78	17.98	17.89		
20	256QAM	1	99	17.86	17.94	17.93		
20	256QAM	50	0	17.57	17.57	17.53	19.3	1.5
20	256QAM	50	24	17.60	17.68	17.63		
20	256QAM	50	50	17.63	17.61	17.62		
20	256QAM	100	0	17.59	17.62	17.58		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	19.89	19.84	19.90	20.8	0
15	QPSK	1	37	19.84	19.89	19.89		
15	QPSK	1	74	19.89	19.89	19.90		
15	QPSK	36	0	19.94	20.00	19.97	20.8	0
15	QPSK	36	20	19.98	19.98	19.82		
15	QPSK	36	39	19.89	19.94	19.94		
15	QPSK	75	0	19.87	19.93	19.81		
15	16QAM	1	0	19.80	19.82	19.86	20.8	0
15	16QAM	1	37	19.84	19.82	19.86		
15	16QAM	1	74	19.80	19.89	19.86		
15	16QAM	36	0	19.93	19.99	19.96	20.8	0
15	16QAM	36	20	20.00	19.94	19.81		
15	16QAM	36	39	19.90	19.98	19.92		
15	16QAM	75	0	19.89	19.93	19.99		
15	64QAM	1	0	19.88	19.82	19.82	20.8	0
15	64QAM	1	37	19.87	19.82	19.81		
15	64QAM	1	74	19.99	20.00	20.00		
15	64QAM	36	0	19.88	19.98	19.95	20.8	0
15	64QAM	36	20	19.93	19.92	19.95		
15	64QAM	36	39	19.85	19.89	19.86		
15	64QAM	75	0	19.80	19.87	19.93		
15	256QAM	1	0	17.86	17.90	17.83	19.3	1.5
15	256QAM	1	37	17.82	17.99	17.96		
15	256QAM	1	74	17.79	17.85	17.93		
15	256QAM	36	0	17.56	17.52	17.60	19.3	1.5
15	256QAM	36	20	17.66	17.71	17.62		
15	256QAM	36	39	17.54	17.49	17.65		
15	256QAM	75	0	17.54	17.57	17.59		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	19.77	19.75	19.77	20.8	0
10	QPSK	1	25	19.77	19.81	19.78		
10	QPSK	1	49	19.74	19.84	19.76		
10	QPSK	25	0	19.83	19.91	19.89	20.8	0
10	QPSK	25	12	19.86	19.89	19.93		
10	QPSK	25	25	19.91	19.89	19.93		
10	QPSK	50	0	19.88	19.87	19.92		
10	16QAM	1	0	19.82	19.83	19.83	20.8	0
10	16QAM	1	25	19.76	19.83	19.75		
10	16QAM	1	49	19.82	19.79	19.74		
10	16QAM	25	0	19.83	19.92	19.83	20.8	0
10	16QAM	25	12	19.89	19.90	19.94		
10	16QAM	25	25	19.86	19.84	19.91		
10	16QAM	50	0	19.87	19.86	19.92		
10	64QAM	1	0	19.80	19.75	19.79	20.8	0
10	64QAM	1	25	19.80	19.74	19.78		
10	64QAM	1	49	19.76	19.74	19.92		
10	64QAM	25	0	19.77	19.85	19.82	20.8	0
10	64QAM	25	12	19.83	19.83	19.86		
10	64QAM	25	25	19.82	19.82	19.84		
10	64QAM	50	0	19.85	19.80	19.86		
10	256QAM	1	0	17.99	18.02	17.96	19.3	1.5
10	256QAM	1	25	17.77	17.91	17.91		
10	256QAM	1	49	17.83	17.91	18.05		
10	256QAM	25	0	17.64	17.51	17.41	19.3	1.5
10	256QAM	25	12	17.59	17.69	17.66		
10	256QAM	25	25	17.66	17.58	17.58		
10	256QAM	50	0	17.71	17.64	17.54		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	19.80	19.91	19.82	20.8	0
5	QPSK	1	12	19.83	19.86	19.79		
5	QPSK	1	24	19.80	19.83	19.80		
5	QPSK	12	0	19.81	19.89	19.85	20.8	0
5	QPSK	12	7	19.89	19.90	19.87		
5	QPSK	12	13	19.87	19.82	19.86		
5	QPSK	25	0	19.84	19.82	19.84		
5	16QAM	1	0	19.80	19.76	19.81	20.8	0
5	16QAM	1	12	19.83	19.74	19.75		
5	16QAM	1	24	19.82	19.80	19.82		
5	16QAM	12	0	19.86	19.85	19.83	20.8	0
5	16QAM	12	7	19.85	19.92	19.86		
5	16QAM	12	13	19.84	19.82	19.84		
5	16QAM	25	0	19.87	19.83	19.85		
5	64QAM	1	0	19.81	19.78	19.82	20.8	0
5	64QAM	1	12	19.79	19.76	19.78		
5	64QAM	1	24	19.76	19.75	19.75		
5	64QAM	12	0	19.82	19.88	19.81	20.8	0
5	64QAM	12	7	19.85	19.90	19.81		
5	64QAM	12	13	19.82	19.83	19.94		
5	64QAM	25	0	19.75	19.77	19.76		
5	256QAM	1	0	17.83	17.93	17.92	19.3	1.5
5	256QAM	1	12	17.75	17.90	17.84		
5	256QAM	1	24	17.68	17.85	17.75		
5	256QAM	12	0	17.38	17.37	17.37	19.3	1.5
5	256QAM	12	7	17.55	17.66	17.58		
5	256QAM	12	13	17.62	17.42	17.60		
5	256QAM	25	0	17.49	17.50	17.42		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	19.77	19.77	19.75	20.8	0
3	QPSK	1	8	19.84	19.81	19.86		
3	QPSK	1	14	19.80	19.80	19.79		
3	QPSK	8	0	19.81	19.82	19.87	20.8	0
3	QPSK	8	4	19.84	19.86	19.90		
3	QPSK	8	7	19.82	19.83	19.81		
3	QPSK	15	0	19.85	19.84	19.81		
3	16QAM	1	0	19.77	19.78	19.79	20.8	0
3	16QAM	1	8	19.83	19.77	19.81		
3	16QAM	1	14	19.79	19.82	19.83		
3	16QAM	8	0	19.83	19.87	19.91	20.8	0
3	16QAM	8	4	19.92	19.90	19.76		
3	16QAM	8	7	19.91	19.90	19.90		
3	16QAM	15	0	19.84	19.86	19.81		
3	64QAM	1	0	19.76	19.79	19.77	20.8	0
3	64QAM	1	8	19.79	19.77	19.81		
3	64QAM	1	14	19.82	19.77	19.82		
3	64QAM	8	0	19.76	19.79	19.81	20.8	0
3	64QAM	8	4	19.84	19.83	19.90		
3	64QAM	8	7	19.79	19.80	19.80		
3	64QAM	15	0	19.78	19.75	19.73		
3	256QAM	1	0	17.91	17.80	17.97	19.3	1.5
3	256QAM	1	8	17.82	17.73	17.98		
3	256QAM	1	14	17.79	17.77	17.83		
3	256QAM	8	0	17.45	17.42	17.44	19.3	1.5
3	256QAM	8	4	17.62	17.50	17.62		
3	256QAM	8	7	17.44	17.43	17.43		
3	256QAM	15	0	17.48	17.50	17.43		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	19.82	19.88	19.77	20.8	0
1.4	QPSK	3	3	19.76	19.84	19.79		
1.4	QPSK	1	5	19.83	19.76	19.78		
1.4	QPSK	3	0	19.87	19.93	19.87		
1.4	QPSK	3	1	19.94	19.92	19.86		
1.4	QPSK	3	3	19.93	19.94	19.90		
1.4	QPSK	6	0	19.80	19.86	19.80	20.8	0
1.4	16QAM	1	0	19.80	19.80	19.80	20.8	0
1.4	16QAM	1	3	19.81	19.85	19.77		
1.4	16QAM	1	5	19.84	19.85	19.82		
1.4	16QAM	3	0	19.87	19.94	19.86		
1.4	16QAM	3	1	19.94	19.91	19.90		
1.4	16QAM	3	3	19.90	19.90	19.87		
1.4	16QAM	6	0	19.76	19.90	19.82	20.8	0
1.4	64QAM	1	0	19.96	19.83	19.91	20.8	0
1.4	64QAM	1	3	19.82	19.76	19.79		
1.4	64QAM	1	5	19.93	19.78	19.92		
1.4	64QAM	3	0	19.92	19.95	19.90		
1.4	64QAM	3	1	19.87	19.89	19.86		
1.4	64QAM	3	3	19.89	19.86	19.91		
1.4	64QAM	6	0	19.67	19.73	19.70	20.8	0
1.4	256QAM	1	0	17.87	18.00	17.87	19.3	1.5
1.4	256QAM	1	3	17.78	18.00	17.75		
1.4	256QAM	1	5	17.88	17.80	17.80		
1.4	256QAM	3	0	17.41	17.39	17.47		
1.4	256QAM	3	1	17.43	17.60	17.52		
1.4	256QAM	3	3	17.57	17.59	17.63		
1.4	256QAM	6	0	17.58	17.54	17.42	19.3	1.5

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)				1720	1745	1770		
20	QPSK	1	0	19.87	20.17	19.88	20.8	0
20	QPSK	1	49	19.85	19.79	19.68		
20	QPSK	1	99	19.83	20.02	19.74		
20	QPSK	50	0	20.09	20.11	20.00	20.8	0
20	QPSK	50	24	19.97	19.95	19.89		
20	QPSK	50	50	19.91	19.90	19.97		
20	QPSK	100	0	20.08	20.09	19.98		
20	16QAM	1	0	19.96	19.80	19.84	20.8	0
20	16QAM	1	49	19.78	19.77	19.72		
20	16QAM	1	99	19.87	19.78	19.95		
20	16QAM	50	0	19.91	19.75	19.89	20.8	0
20	16QAM	50	24	19.84	19.91	19.85		
20	16QAM	50	50	19.98	19.96	19.95		
20	16QAM	100	0	19.75	19.95	19.79		
20	64QAM	1	0	19.77	19.94	19.92	20.8	0
20	64QAM	1	49	19.95	19.77	19.86		
20	64QAM	1	99	19.91	19.86	19.97		
20	64QAM	50	0	19.79	19.97	20.06	20.8	0
20	64QAM	50	24	20.01	19.99	19.78		
20	64QAM	50	50	19.93	20.09	19.97		
20	64QAM	100	0	20.11	19.94	19.77		
20	256QAM	1	0	17.84	17.79	17.93	19.3	1.5
20	256QAM	1	49	17.90	17.89	17.86		
20	256QAM	1	99	17.84	17.93	17.80		
20	256QAM	50	0	17.68	17.71	17.64	19.3	1.5
20	256QAM	50	24	17.74	17.77	17.77		
20	256QAM	50	50	17.69	17.69	17.75		
20	256QAM	100	0	17.70	17.68	17.74		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	19.69	19.93	19.60	20.8	0
15	QPSK	1	37	19.64	19.71	19.89		
15	QPSK	1	74	19.90	19.65	19.83		
15	QPSK	36	0	20.03	19.86	19.68	20.8	0
15	QPSK	36	20	19.81	19.77	19.84		
15	QPSK	36	39	19.95	19.85	19.82		
15	QPSK	75	0	19.64	19.62	19.89		
15	16QAM	1	0	19.80	19.72	19.66	20.8	0
15	16QAM	1	37	19.70	19.71	19.84		
15	16QAM	1	74	19.77	19.90	19.86		
15	16QAM	36	0	20.01	19.60	19.79	20.8	0
15	16QAM	36	20	19.93	19.79	19.73		
15	16QAM	36	39	19.70	19.91	20.03		
15	16QAM	75	0	19.66	19.56	19.69		
15	64QAM	1	0	19.62	19.58	19.79	20.8	0
15	64QAM	1	37	19.83	19.82	19.68		
15	64QAM	1	74	19.75	20.01	19.73		
15	64QAM	36	0	19.83	20.01	19.81	20.8	0
15	64QAM	36	20	19.64	19.62	19.76		
15	64QAM	36	39	19.59	19.72	19.88		
15	64QAM	75	0	19.69	20.01	19.80		
15	256QAM	1	0	17.89	17.81	17.79	19.3	1.5
15	256QAM	1	37	17.68	17.69	17.89		
15	256QAM	1	74	17.65	17.81	17.81		
15	256QAM	36	0	17.51	17.71	17.43	19.3	1.5
15	256QAM	36	20	17.55	17.61	17.68		
15	256QAM	36	39	17.57	17.71	17.64		
15	256QAM	75	0	17.75	17.50	17.75		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	19.79	19.73	19.86	20.8	0
10	QPSK	1	25	19.67	19.86	19.84		
10	QPSK	1	49	19.86	19.63	19.90		
10	QPSK	25	0	19.92	19.62	19.68	20.8	0
10	QPSK	25	12	19.73	19.75	19.84		
10	QPSK	25	25	19.80	19.78	19.80		
10	QPSK	50	0	19.77	19.88	19.67		
10	16QAM	1	0	19.75	19.89	19.81	20.8	0
10	16QAM	1	25	19.80	19.61	19.68		
10	16QAM	1	49	19.76	19.87	19.73		
10	16QAM	25	0	20.00	19.88	19.75	20.8	0
10	16QAM	25	12	19.80	19.89	19.64		
10	16QAM	25	25	19.70	19.87	19.92		
10	16QAM	50	0	19.63	19.76	19.85		
10	64QAM	1	0	19.84	19.69	19.64	20.8	0
10	64QAM	1	25	19.76	19.86	19.82		
10	64QAM	1	49	19.94	19.91	19.89		
10	64QAM	25	0	19.74	19.95	19.90	20.8	0
10	64QAM	25	12	19.73	19.64	19.80		
10	64QAM	25	25	19.74	19.76	19.80		
10	64QAM	50	0	19.77	19.81	19.90		
10	256QAM	1	0	17.92	17.70	17.86	19.3	1.5
10	256QAM	1	25	17.73	17.76	17.94		
10	256QAM	1	49	17.78	17.82	17.79		
10	256QAM	25	0	17.44	17.51	17.50	19.3	1.5
10	256QAM	25	12	17.53	17.79	17.50		
10	256QAM	25	25	17.53	17.44	17.51		
10	256QAM	50	0	17.51	17.45	17.46		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	19.90	19.83	19.83	20.8	0
5	QPSK	1	12	19.77	19.93	19.82		
5	QPSK	1	24	19.66	19.74	19.86		
5	QPSK	12	0	19.89	19.73	19.73	20.8	0
5	QPSK	12	7	19.88	19.84	19.83		
5	QPSK	12	13	19.78	19.98	19.77		
5	QPSK	25	0	19.78	19.76	19.74		
5	16QAM	1	0	19.79	19.83	19.70	20.8	0
5	16QAM	1	12	19.87	19.85	19.80		
5	16QAM	1	24	19.63	19.88	19.64		
5	16QAM	12	0	19.82	19.61	19.89	20.8	0
5	16QAM	12	7	19.86	19.84	19.68		
5	16QAM	12	13	19.74	19.77	19.80		
5	16QAM	25	0	19.75	19.79	19.80		
5	64QAM	1	0	19.81	19.82	19.76	20.8	0
5	64QAM	1	12	19.89	19.83	19.83		
5	64QAM	1	24	19.80	19.76	19.80		
5	64QAM	12	0	19.93	19.88	19.94	20.8	0
5	64QAM	12	7	19.93	19.95	19.68		
5	64QAM	12	13	19.86	19.70	19.89		
5	64QAM	25	0	19.87	19.79	19.94		
5	256QAM	1	0	17.88	17.77	17.80	19.3	1.5
5	256QAM	1	12	17.73	17.76	17.87		
5	256QAM	1	24	17.72	17.88	17.65		
5	256QAM	12	0	17.39	17.52	17.53	19.3	1.5
5	256QAM	12	7	17.75	17.72	17.75		
5	256QAM	12	13	17.57	17.44	17.46		
5	256QAM	25	0	17.78	17.54	17.65		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	19.70	19.84	19.64	20.8	0
3	QPSK	1	8	19.90	19.81	19.93		
3	QPSK	1	14	19.64	19.81	19.87		
3	QPSK	8	0	19.91	19.84	19.79	20.8	0
3	QPSK	8	4	19.80	19.87	19.88		
3	QPSK	8	7	19.89	19.84	19.85		
3	QPSK	15	0	19.70	19.67	19.60		
3	16QAM	1	0	19.83	19.82	19.70	20.8	0
3	16QAM	1	8	19.71	19.72	19.65		
3	16QAM	1	14	19.89	19.88	19.90		
3	16QAM	8	0	19.99	19.87	19.79	20.8	0
3	16QAM	8	4	19.88	19.78	19.64		
3	16QAM	8	7	19.80	19.87	19.73		
3	16QAM	15	0	19.83	19.64	19.68		
3	64QAM	1	0	19.70	19.73	19.58	20.8	0
3	64QAM	1	8	19.76	19.86	19.94		
3	64QAM	1	14	19.79	20.02	19.78		
3	64QAM	8	0	19.97	19.98	19.71	20.8	0
3	64QAM	8	4	19.77	19.81	19.77		
3	64QAM	8	7	19.62	19.79	19.88		
3	64QAM	15	0	19.62	20.00	19.95		
3	256QAM	1	0	17.80	17.71	17.62	19.3	1.5
3	256QAM	1	8	17.76	17.86	17.95		
3	256QAM	1	14	17.65	17.94	17.63		
3	256QAM	8	0	17.57	17.45	17.65	19.3	1.5
3	256QAM	8	4	17.69	17.73	17.59		
3	256QAM	8	7	17.77	17.44	17.71		
3	256QAM	15	0	17.51	17.46	17.58		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	19.84	19.88	19.88	20.8	0
1.4	QPSK	3	3	19.80	20.00	19.98		
1.4	QPSK	1	5	19.77	19.73	19.93		
1.4	QPSK	3	0	19.89	19.64	19.68		
1.4	QPSK	3	1	19.86	19.86	19.90		
1.4	QPSK	3	3	19.80	19.75	19.86		
1.4	QPSK	6	0	19.84	19.63	19.74	20.8	0
1.4	16QAM	1	0	19.80	19.85	19.72	20.8	0
1.4	16QAM	1	3	19.72	19.58	19.67		
1.4	16QAM	1	5	19.87	19.73	19.97		
1.4	16QAM	3	0	19.93	19.82	19.89		
1.4	16QAM	3	1	19.85	19.68	19.75		
1.4	16QAM	3	3	19.89	19.71	19.93		
1.4	16QAM	6	0	19.73	19.74	19.76	20.8	0
1.4	64QAM	1	0	19.89	19.85	19.72	20.8	0
1.4	64QAM	1	3	19.90	19.77	19.77		
1.4	64QAM	1	5	19.72	19.89	19.78		
1.4	64QAM	3	0	19.97	19.83	19.81		
1.4	64QAM	3	1	19.89	19.80	19.78		
1.4	64QAM	3	3	19.73	19.63	19.81		
1.4	64QAM	6	0	19.64	19.75	19.78	20.8	0
1.4	256QAM	1	0	17.97	17.68	17.61	19.3	1.5
1.4	256QAM	1	3	17.80	17.75	17.80		
1.4	256QAM	1	5	17.66	17.95	17.85		
1.4	256QAM	3	0	17.64	17.44	17.71		
1.4	256QAM	3	1	17.70	17.49	17.66		
1.4	256QAM	3	3	17.60	17.48	17.51		
1.4	256QAM	6	0	17.67	17.54	17.63	19.3	1.5

CA_66C											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132072	132270	QPSK	1	0	0	0	1	0	Full	22.25	22.80
132322	132124	QPSK	1	0	0	0	1	0	Full	22.34	22.80
132572	132374	QPSK	1	0	0	0	1	0	Full	22.24	22.80
132072	132270	QPSK	50	0	0	0	1	0	Full	21.42	21.80
132322	132124	QPSK	50	0	0	0	1	0	Full	21.52	21.80
132572	132374	QPSK	50	0	0	0	1	0	Full	21.35	21.80
132072	132270	QPSK	100	0	0	0	1	0	Full	21.42	21.80
132322	132124	QPSK	100	0	0	0	1	0	Full	21.35	21.80
132572	132374	QPSK	100	0	0	0	1	0	Full	21.36	21.80
132072	132270	QPSK	1	0	0	0	1	0	Reduced	18.14	19.20
132322	132124	QPSK	1	0	0	0	1	0	Reduced	18.23	19.20
132572	132374	QPSK	1	0	0	0	1	0	Reduced	18.17	19.20
132072	132270	QPSK	50	0	0	0	1	0	Reduced	19.72	20.50
132322	132124	QPSK	50	0	0	0	1	0	Reduced	19.76	20.50
132572	132374	QPSK	50	0	0	0	1	0	Reduced	19.71	20.50

CA_41C-Class 3											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39790	39988	QPSK	1	49	0	0	1	0	Full	22.55	23.80
39750	39948	QPSK	1	49	0	0	1	0	Full	22.55	23.80
40185	39987	QPSK	1	49	0	0	1	0	Full	22.68	23.80
40620	40422	QPSK	1	49	0	0	1	0	Full	22.64	23.80
41055	40857	QPSK	1	49	0	0	1	0	Full	22.65	23.80
41490	41292	QPSK	1	49	0	0	1	0	Full	22.57	23.80
39790	39988	QPSK	50	50	0	0	1	0	Full	21.62	22.80
39750	39948	QPSK	50	50	0	0	1	0	Full	21.59	22.80
40185	39987	QPSK	50	50	0	0	1	0	Full	21.76	22.80
40620	40422	QPSK	50	50	0	0	1	0	Full	21.71	22.80
41055	40857	QPSK	50	50	0	0	1	0	Full	21.73	22.80
41490	41292	QPSK	50	50	0	0	1	0	Full	21.70	22.80
39790	39988	QPSK	100	0	0	0	1	0	Full	21.58	22.80
39750	39948	QPSK	100	0	0	0	1	0	Full	21.57	22.80
40185	39987	QPSK	100	0	0	0	1	0	Full	21.74	22.80
40620	40422	QPSK	100	0	0	0	1	0	Full	21.70	22.80
41055	40857	QPSK	100	0	0	0	1	0	Full	21.65	22.80
41490	41292	QPSK	100	0	0	0	1	0	Full	21.68	22.80
39790	39988	QPSK	50	50	0	0	1	0	Reduced	20.63	21.70
39750	39948	QPSK	50	50	0	0	1	0	Reduced	20.60	21.70
40185	39987	QPSK	50	50	0	0	1	0	Reduced	20.74	21.70
40620	40422	QPSK	50	50	0	0	1	0	Reduced	20.71	21.70
41055	40857	QPSK	50	50	0	0	1	0	Reduced	20.72	21.70
41490	41292	QPSK	50	50	0	0	1	0	Reduced	20.68	21.70

CA_41C（HPUE）											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39790	39988	QPSK	1	49	0	0	1	0	Full	24.61	25.60
39750	39948	QPSK	1	49	0	0	1	0	Full	24.60	25.60
40185	39987	QPSK	1	49	0	0	1	0	Full	24.72	25.60
40620	40422	QPSK	1	49	0	0	1	0	Full	24.70	25.60
41055	40857	QPSK	1	49	0	0	1	0	Full	24.63	25.60
41490	41292	QPSK	1	49	0	0	1	0	Full	24.62	25.60
39790	39988	QPSK	50	50	0	0	1	0	Full	23.68	24.60
39750	39948	QPSK	50	50	0	0	1	0	Full	23.73	24.60
40185	39987	QPSK	50	50	0	0	1	0	Full	23.83	24.60
40620	40422	QPSK	50	50	0	0	1	0	Full	23.81	24.60
41055	40857	QPSK	50	50	0	0	1	0	Full	23.80	24.60
41490	41292	QPSK	50	50	0	0	1	0	Full	23.77	24.60
39790	39988	QPSK	100	0	0	0	1	0	Full	23.71	24.60
39750	39948	QPSK	100	0	0	0	1	0	Full	23.69	24.60
40185	39987	QPSK	100	0	0	0	1	0	Full	23.90	24.60
40620	40422	QPSK	100	0	0	0	1	0	Full	23.85	24.60
41055	40857	QPSK	100	0	0	0	1	0	Full	23.79	24.60
41490	41292	QPSK	100	0	0	0	1	0	Full	23.73	24.60
39790	39988	QPSK	50	50	0	0	1	0	Reduced	22.20	23.30
39750	39948	QPSK	50	50	0	0	1	0	Reduced	22.23	23.30
40185	39987	QPSK	50	50	0	0	1	0	Reduced	22.38	23.30
40620	40422	QPSK	50	50	0	0	1	0	Reduced	22.35	23.30
41055	40857	QPSK	50	50	0	0	1	0	Reduced	22.34	23.30
41490	41292	QPSK	50	50	0	0	1	0	Reduced	22.27	23.30

CA_48C-FCC											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal RB Si	MPR Lev	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
55340	55538	QPSK	1	0	0	0	1	0	Full	5.51	7.5
55830	55632	QPSK	1	0	0	0	1	0	Full	5.70	7.5
56150	55952	QPSK	1	0	0	0	1	0	Full	5.64	7.5
56640	56442	QPSK	1	0	0	0	1	0	Full	5.72	7.5
55340	55538	QPSK	50	24	0	0	1	0	Full	18.88	20.8
55830	55632	QPSK	50	24	0	0	1	0	Full	19.13	20.8
56150	55952	QPSK	50	24	0	0	1	0	Full	19.10	20.8
56640	56442	QPSK	50	24	0	0	1	0	Full	19.16	20.8
55340	55538	QPSK	100	0	0	0	1	0	Full	18.85	20.8
55830	55632	QPSK	100	0	0	0	1	0	Full	19.10	20.8
56150	55952	QPSK	100	0	0	0	1	0	Full	18.06	20.8
56640	56442	QPSK	100	0	0	0	1	0	Full	19.13	20.8
55340	55538	QPSK	1	0	0	0	1	0	Reduced Power level 1	5.51	7.5
55830	55632	QPSK	1	0	0	0	1	0	Reduced Power level 1	5.70	7.5
56150	55952	QPSK	1	0	0	0	1	0	Reduced Power level 1	5.64	7.5
56640	56442	QPSK	1	0	0	0	1	0	Reduced Power level 1	5.72	7.5
55340	55538	QPSK	50	24	0	0	1	0	Reduced Power level 1	17.03	18.1
55830	55632	QPSK	50	24	0	0	1	0	Reduced Power level 1	17.20	18.1
56150	55952	QPSK	50	24	0	0	1	0	Reduced Power level 1	17.18	18.1
56640	56442	QPSK	50	24	0	0	1	0	Reduced Power level 1	17.27	18.1
55340	55538	QPSK	100	0	0	0	1	0	Reduced Power level 1	17.00	18.1
55830	55632	QPSK	100	0	0	0	1	0	Reduced Power level 1	17.17	18.1
56150	55952	QPSK	100	0	0	0	1	0	Reduced Power level 1	17.15	18.1
56640	56442	QPSK	100	0	0	0	1	0	Reduced Power level 1	17.22	18.1
55340	55538	QPSK	1	0	0	0	1	0	Reduced Power level 2	5.51	7.5
55830	55632	QPSK	1	0	0	0	1	0	Reduced Power level 2	5.70	7.5
56150	55952	QPSK	1	0	0	0	1	0	Reduced Power level 2	5.64	7.5
56640	56442	QPSK	1	0	0	0	1	0	Reduced Power level 2	5.72	7.5
55340	55538	QPSK	50	24	0	0	1	0	Reduced Power level 2	15.95	17.2
55830	55632	QPSK	50	24	0	0	1	0	Reduced Power level 2	16.08	17.2
56150	55952	QPSK	50	24	0	0	1	0	Reduced Power level 2	16.03	17.2
56640	56442	QPSK	50	24	0	0	1	0	Reduced Power level 2	16.10	17.2
55340	55538	QPSK	100	0	0	0	1	0	Reduced Power level 2	15.93	17.2
55830	55632	QPSK	100	0	0	0	1	0	Reduced Power level 2	16.11	17.2
56150	55952	QPSK	100	0	0	0	1	0	Reduced Power level 2	16.00	17.2
56640	56442	QPSK	100	0	0	0	1	0	Reduced Power level 2	16.07	17.2
55340	55538	QPSK	1	0	0	0	1	0	Reduced Power level 3/4	5.51	7.5
55830	55632	QPSK	1	0	0	0	1	0	Reduced Power level 3/4	5.70	7.5
56150	55952	QPSK	1	0	0	0	1	0	Reduced Power level 3/4	5.64	7.5
56640	56442	QPSK	1	0	0	0	1	0	Reduced Power level 3/4	5.72	7.5
55340	55538	QPSK	50	24	0	0	1	0	Reduced Power level 3/4	13.55	14.7
55830	55632	QPSK	50	24	0	0	1	0	Reduced Power level 3/4	13.73	14.7
56150	55952	QPSK	50	24	0	0	1	0	Reduced Power level 3/4	13.75	14.7
56640	56442	QPSK	50	24	0	0	1	0	Reduced Power level 3/4	13.80	14.7
55340	55538	QPSK	100	0	0	0	1	0	Reduced Power level 3/4	13.52	14.7
55830	55632	QPSK	100	0	0	0	1	0	Reduced Power level 3/4	13.70	14.7
56150	55952	QPSK	100	0	0	0	1	0	Reduced Power level 3/4	13.73	14.7
56640	56442	QPSK	100	0	0	0	1	0	Reduced Power level 3/4	13.77	14.7
55340	55538	QPSK	1	0	0	0	1	0	Reduced	5.51	7.5
55830	55632	QPSK	1	0	0	0	1	0	Reduced	5.70	7.5
56150	55952	QPSK	1	0	0	0	1	0	Reduced	5.64	7.5
56640	56442	QPSK	1	0	0	0	1	0	Reduced	5.72	7.5
55340	55538	QPSK	50	24	0	0	1	0	Reduced	15.97	17.1
55830	55632	QPSK	50	24	0	0	1	0	Reduced	16.15	17.1
56150	55952	QPSK	50	24	0	0	1	0	Reduced	16.06	17.1
56640	56442	QPSK	50	24	0	0	1	0	Reduced	16.17	17.1
55340	55538	QPSK	100	0	0	0	1	0	Reduced	15.95	17.1
55830	55632	QPSK	100	0	0	0	1	0	Reduced	16.13	17.1
56150	55952	QPSK	100	0	0	0	1	0	Reduced	16.03	17.1
56640	56442	QPSK	100	0	0	0	1	0	Reduced	16.15	17.1

CA_2A-4A												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
18700	20050	QPSK	1	0	1	0	21.91	16.91	23.10	22.70	17.50	23.8
			1	49	1	49	21.94	16.37	23.00	22.70	17.50	23.8
			1	99	1	99	21.99	16.87	23.15	22.70	17.50	23.8
			50	0	50	0	21.21	18.23	22.98	21.80	19.50	23.8
			50	24	50	24	21.16	18.13	22.91	21.80	19.50	23.8
			50	50	50	50	21.25	18.03	22.94	21.80	19.50	23.8
			100	0	100	0	21.22	18.11	22.95	21.80	19.50	23.8
18900	20175	QPSK	1	0	1	0	21.98	16.11	22.98	22.70	17.50	23.8
			1	49	1	49	22.23	16.12	23.18	22.70	17.50	23.8
			1	99	1	99	21.96	16.19	22.98	22.70	17.50	23.8
			50	0	50	0	21.37	18.27	23.10	21.80	19.50	23.8
			50	24	50	24	21.38	18.18	23.08	21.80	19.50	23.8
			50	50	50	50	21.05	18.32	22.91	21.80	19.50	23.8
			100	0	100	0	21.23	18.29	23.01	21.80	19.50	23.8
19100	20300	QPSK	1	0	1	0	21.91	16.87	23.09	22.70	17.50	23.8
			1	49	1	49	21.88	16.32	22.95	22.70	17.50	23.8
			1	99	1	99	21.95	16.64	23.07	22.70	17.50	23.8
			50	0	50	0	21.20	18.11	22.93	21.80	19.50	23.8
			50	24	50	24	21.13	18.15	22.90	21.80	19.50	23.8
			50	50	50	50	21.25	18.18	22.99	21.80	19.50	23.8
			100	0	100	0	21.20	18.14	22.94	21.80	19.50	23.8

CA_2A-66A												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
18700	132072	QPSK	1	0	1	0	21.54	16.98	22.84	22.7	17.5	23.8
			1	49	1	49	21.68	17.09	22.98	22.7	17.5	23.8
			1	99	1	99	21.72	16.87	22.95	22.7	17.5	23.8
			50	0	50	0	20.87	18.77	22.96	21.8	19.5	23.8
			50	24	50	24	20.96	18.72	22.99	21.8	19.5	23.8
			50	50	50	50	21.01	18.76	23.04	21.8	19.5	23.8
			100	0	100	0	20.91	18.64	22.93	21.8	19.5	23.8
18900	132322	QPSK	1	0	1	0	21.68	17.18	23.00	22.7	17.5	23.8
			1	49	1	49	21.64	17.13	22.96	22.7	17.5	23.8
			1	99	1	99	21.71	16.99	22.97	22.7	17.5	23.8
			50	0	50	0	20.89	18.85	23.00	21.8	19.5	23.8
			50	24	50	24	21.09	18.85	23.12	21.8	19.5	23.8
			50	50	50	50	20.97	18.71	23.00	21.8	19.5	23.8
			100	0	100	0	20.96	18.73	23.00	21.8	19.5	23.8
19100	132572	QPSK	1	0	1	0	21.57	16.98	22.87	22.7	17.5	23.8
			1	49	1	49	21.63	17.17	22.96	22.7	17.5	23.8
			1	99	1	99	21.64	16.87	22.89	22.7	17.5	23.8
			50	0	50	0	20.77	18.88	22.94	21.8	19.5	23.8
			50	24	50	24	20.96	18.92	23.07	21.8	19.5	23.8
			50	50	50	50	20.91	18.68	22.95	21.8	19.5	23.8
			100	0	100	0	21.03	18.75	23.05	21.8	19.5	23.8

CA_4A-2A												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
20050	18700	QPSK	1	0	1	0	21.71	15.82	22.71	22.7	17.5	23.8
			1	49	1	49	21.62	15.89	22.65	22.7	17.5	23.8
			1	99	1	99	21.88	16.23	22.93	22.7	17.5	23.8
			50	0	50	0	20.87	18.38	22.81	21.8	19.5	23.8
			50	24	50	24	20.81	18.65	22.87	21.8	19.5	23.8
			50	50	50	50	20.98	18.61	22.97	21.8	19.5	23.8
			100	0	100	0	20.87	18.73	22.94	21.8	19.5	23.8
20175	18900	QPSK	1	0	1	0	21.63	15.76	22.63	22.7	17.5	23.8
			1	49	1	49	21.53	16.05	22.61	22.7	17.5	23.8
			1	99	1	99	21.98	16.14	22.99	22.7	17.5	23.8
			50	0	50	0	20.95	18.45	22.89	21.8	19.5	23.8
			50	24	50	24	20.78	18.77	22.90	21.8	19.5	23.8
			50	50	50	50	20.86	18.65	22.90	21.8	19.5	23.8
			100	0	100	0	20.99	18.65	22.99	21.8	19.5	23.8
20300	19100	QPSK	1	0	1	0	21.78	15.87	22.77	22.7	17.5	23.8
			1	49	1	49	21.56	16.17	22.66	22.7	17.5	23.8
			1	99	1	99	21.79	16.26	22.86	22.7	17.5	23.8
			50	0	50	0	20.99	18.27	22.85	21.8	19.5	23.8
			50	24	50	24	20.85	18.86	22.98	21.8	19.5	23.8
			50	50	50	50	20.97	18.78	23.02	21.8	19.5	23.8
			100	0	100	0	21.02	18.51	22.95	21.8	19.5	23.8

CA_66A-2A												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132072	18700	QPSK	1	0	1	0	21.94	15.97	22.92	22.70	17.50	23.8
			1	49	1	49	21.67	16.09	22.73	22.70	17.50	23.8
			1	99	1	99	21.66	15.87	22.68	22.70	17.50	23.8
			50	0	50	0	20.58	18.73	22.76	21.80	19.50	23.8
			50	24	50	24	20.73	18.61	22.81	21.80	19.50	23.8
			50	50	50	50	20.69	18.84	22.87	21.80	19.50	23.8
			100	0	100	0	20.71	18.58	22.78	21.80	19.50	23.8
132322	18900	QPSK	1	0	1	0	21.89	15.99	22.88	22.70	17.50	23.8
			1	49	1	49	21.53	16.13	22.63	22.70	17.50	23.8
			1	99	1	99	21.72	15.76	22.70	22.70	17.50	23.8
			50	0	50	0	20.71	18.68	22.82	21.80	19.50	23.8
			50	24	50	24	20.64	18.66	22.77	21.80	19.50	23.8
			50	50	50	50	20.88	18.71	22.94	21.80	19.50	23.8
			100	0	100	0	20.89	18.46	22.85	21.80	19.50	23.8
132572	19100	QPSK	1	0	1	0	21.94	15.72	22.87	22.70	17.50	23.8
			1	49	1	49	21.75	16.03	22.78	22.70	17.50	23.8
			1	99	1	99	21.65	15.89	22.67	22.70	17.50	23.8
			50	0	50	0	20.89	18.71	22.95	21.80	19.50	23.8
			50	24	50	24	20.77	18.78	22.90	21.80	19.50	23.8
			50	50	50	50	20.76	18.64	22.84	21.80	19.50	23.8
			100	0	100	0	20.94	18.57	22.93	21.80	19.50	23.8

CA_2A-12A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
18700	23060	QPSK	1	0	1	0	21.86	16.67	23.01	22.7	17.5	23.8
			1	49	1	25	21.89	16.74	23.05	22.7	17.5	23.8
			1	99	1	49	21.78	16.38	22.88	22.7	17.5	23.8
			50	0	25	0	20.87	18.79	22.96	21.8	19.5	23.8
			50	24	25	12	20.84	18.96	23.01	21.8	19.5	23.8
			50	50	25	25	20.98	18.43	22.90	21.8	19.5	23.8
			100	0	50	0	20.92	18.61	22.93	21.8	19.5	23.8
18900	23095	QPSK	1	0	1	0	21.99	16.76	23.13	22.7	17.5	23.8
			1	49	1	25	21.81	16.61	22.96	22.7	17.5	23.8
			1	99	1	49	21.72	16.26	22.81	22.7	17.5	23.8
			50	0	25	0	20.92	18.77	22.99	21.8	19.5	23.8
			50	24	25	12	20.91	18.84	23.01	21.8	19.5	23.8
			50	50	25	25	20.94	18.35	22.85	21.8	19.5	23.8
			100	0	50	0	20.89	18.61	22.91	21.8	19.5	23.8
19100	23130	QPSK	1	0	1	0	21.87	16.65	23.01	22.7	17.5	23.8
			1	49	1	25	21.93	16.69	23.07	22.7	17.5	23.8
			1	99	1	49	21.75	16.34	22.85	22.7	17.5	23.8
			50	0	25	0	20.98	18.84	23.05	21.8	19.5	23.8
			50	24	25	12	20.86	18.73	22.93	21.8	19.5	23.8
			50	50	25	25	20.87	18.53	22.87	21.8	19.5	23.8
			100	0	50	0	20.78	18.56	22.82	21.8	19.5	23.8

CA_2A-13A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
18700	23230	QPSK	1	0	1	0	21.90	16.54	23.01	22.7	17.5	23.8
			1	49	1	25	21.86	16.68	23.01	22.7	17.5	23.8
			1	99	1	49	21.84	16.84	23.03	22.7	17.5	23.8
			50	0	25	0	20.97	18.52	22.93	21.8	19.5	23.8
			50	24	25	12	21.11	18.52	23.02	21.8	19.5	23.8
			50	50	25	25	21.12	18.49	23.01	21.8	19.5	23.8
			100	0	50	0	21.02	18.37	22.90	21.8	19.5	23.8
18900	23230	QPSK	1	0	1	0	21.67	17.13	22.98	22.7	17.5	23.8
			1	49	1	25	21.82	17.12	23.09	22.7	17.5	23.8
			1	99	1	49	21.66	17.04	22.95	22.7	17.5	23.8
			50	0	25	0	20.81	18.46	22.80	21.8	19.5	23.8
			50	24	25	12	20.67	18.42	22.70	21.8	19.5	23.8
			50	50	25	25	20.94	18.57	22.93	21.8	19.5	23.8
			100	0	50	0	20.94	18.54	22.91	21.8	19.5	23.8
19100	23230	QPSK	1	0	1	0	21.85	16.81	23.03	22.7	17.5	23.8
			1	49	1	25	21.96	16.45	23.04	22.7	17.5	23.8
			1	99	1	49	21.90	16.50	23.00	22.7	17.5	23.8
			50	0	25	0	21.02	18.37	22.90	21.8	19.5	23.8
			50	24	25	12	20.96	18.43	22.89	21.8	19.5	23.8
			50	50	25	25	20.93	18.45	22.87	21.8	19.5	23.8
			100	0	50	0	21.01	18.49	22.94	21.8	19.5	23.8

CA_12A-2A												
Combination 10MHz+20MHz (50RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
23060	18700	QPSK	1	0	1	0	21.99	16.70	23.12	22.7	17.5	23.8
			1	25	1	49	21.75	16.65	22.92	22.7	17.5	23.8
			1	49	1	99	21.63	16.49	22.79	22.7	17.5	23.8
			25	0	50	0	21.12	18.78	23.12	21.8	19.5	23.8
			25	12	50	24	21.04	18.86	23.10	21.8	19.5	23.8
			25	25	50	50	20.78	18.86	22.94	21.8	19.5	23.8
			50	0	100	0	21.01	18.78	23.05	21.8	19.5	23.8
23095	18900	QPSK	1	0	1	0	21.80	16.42	22.91	22.7	17.5	23.8
			1	25	1	49	21.52	16.10	22.62	22.7	17.5	23.8
			1	49	1	99	21.03	16.27	22.28	22.7	17.5	23.8
			25	0	50	0	20.87	18.65	22.91	21.8	19.5	23.8
			25	12	50	24	20.62	18.71	22.78	21.8	19.5	23.8
			25	25	50	50	20.80	18.68	22.88	21.8	19.5	23.8
			50	0	100	0	20.54	18.67	22.72	21.8	19.5	23.8
23130	19100	QPSK	1	0	1	0	21.46	16.27	22.61	22.7	17.5	23.8
			1	25	1	49	21.47	16.36	22.64	22.7	17.5	23.8
			1	49	1	99	20.42	16.98	22.04	22.7	17.5	23.8
			25	0	50	0	20.90	18.75	22.97	21.8	19.5	23.8
			25	12	50	24	20.64	18.67	22.78	21.8	19.5	23.8
			25	25	50	50	20.41	18.78	22.68	21.8	19.5	23.8
			50	0	100	0	20.59	18.78	22.79	21.8	19.5	23.8

CA_13A-2A												
Combination 10MHz+20MHz (50RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
23230	18700	QPSK	1	0	1	0	21.78	16.76	22.97	22.7	17.5	23.8
			1	25	1	49	22.04	16.55	23.12	22.7	17.5	23.8
			1	49	1	99	22.12	16.51	23.17	22.7	17.5	23.8
			25	0	50	0	20.93	18.61	22.93	21.8	19.5	23.8
			25	12	50	24	21.03	18.61	23.00	21.8	19.5	23.8
			25	25	50	50	21.15	18.48	23.03	21.8	19.5	23.8
			50	0	100	0	21.02	18.56	22.97	21.8	19.5	23.8
23230	18900	QPSK	1	0	1	0	21.66	16.78	22.88	22.7	17.5	23.8
			1	25	1	49	21.91	16.62	23.04	22.7	17.5	23.8
			1	49	1	99	21.94	16.45	23.02	22.7	17.5	23.8
			25	0	50	0	20.89	18.67	22.93	21.8	19.5	23.8
			25	12	50	24	20.87	18.62	22.90	21.8	19.5	23.8
			25	25	50	50	20.86	18.56	22.87	21.8	19.5	23.8
			50	0	100	0	21.12	18.36	22.97	21.8	19.5	23.8
23230	19100	QPSK	1	0	1	0	21.58	16.69	22.80	22.7	17.5	23.8
			1	25	1	49	21.78	16.73	22.96	22.7	17.5	23.8
			1	49	1	99	21.82	16.54	22.95	22.7	17.5	23.8
			25	0	50	0	20.95	18.75	23.00	21.8	19.5	23.8
			25	12	50	24	20.93	18.57	22.92	21.8	19.5	23.8
			25	25	50	50	21.05	18.59	23.00	21.8	19.5	23.8
			50	0	100	0	21.01	18.47	22.93	21.8	19.5	23.8

CA_4A-12A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
20050	23060	QPSK	1	0	1	0	21.78	16.82	22.98	22.70	17.50	23.8
			1	49	1	25	21.74	16.77	22.94	22.70	17.50	23.8
			1	99	1	49	21.51	16.42	22.68	22.70	17.50	23.8
			50	0	25	0	21.12	18.91	23.16	21.80	19.50	23.8
			50	24	25	12	20.89	18.56	22.89	21.80	19.50	23.8
			50	50	25	25	20.54	18.45	22.63	21.80	19.50	23.8
			100	0	50	0	20.61	18.59	22.73	21.80	19.50	23.8
20175	23095	QPSK	1	0	1	0	21.80	16.68	22.96	22.70	17.50	23.8
			1	49	1	25	21.62	16.56	22.80	22.70	17.50	23.8
			1	99	1	49	21.65	16.13	22.72	22.70	17.50	23.8
			50	0	25	0	21.03	18.98	23.14	21.80	19.50	23.8
			50	24	25	12	20.85	18.38	22.80	21.80	19.50	23.8
			50	50	25	25	20.43	18.36	22.53	21.80	19.50	23.8
			100	0	50	0	20.60	18.65	22.74	21.80	19.50	23.8
20300	23130	QPSK	1	0	1	0	21.77	16.79	22.97	22.70	17.50	23.8
			1	49	1	25	21.73	16.67	22.91	22.70	17.50	23.8
			1	99	1	49	21.55	16.37	22.70	22.70	17.50	23.8
			50	0	25	0	21.21	18.87	23.21	21.80	19.50	23.8
			50	24	25	12	20.92	18.41	22.85	21.80	19.50	23.8
			50	50	25	25	20.84	18.39	22.80	21.80	19.50	23.8
			100	0	50	0	20.93	18.39	22.85	21.80	19.50	23.8

CA_4A-13A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
20050	23230	QPSK	1	0	1	0	21.96	16.59	23.07	22.7	17.5	23.8
			1	49	1	25	21.81	16.61	22.96	22.7	17.5	23.8
			1	99	1	49	21.65	16.74	22.87	22.7	17.5	23.8
			50	0	25	0	21.02	18.69	23.02	21.8	19.5	23.8
			50	24	25	12	20.99	18.77	23.03	21.8	19.5	23.8
			50	50	25	25	20.86	18.84	22.98	21.8	19.5	23.8
			100	0	50	0	20.89	18.82	22.99	21.8	19.5	23.8
20175	23230	QPSK	1	0	1	0	22.01	16.77	23.15	22.7	17.5	23.8
			1	49	1	25	21.98	16.70	23.11	22.7	17.5	23.8
			1	99	1	49	21.69	16.78	22.91	22.7	17.5	23.8
			50	0	25	0	20.81	19.04	23.02	21.8	19.5	23.8
			50	24	25	12	20.79	18.97	22.98	21.8	19.5	23.8
			50	50	25	25	20.87	18.83	22.98	21.8	19.5	23.8
			100	0	50	0	20.76	18.98	22.97	21.8	19.5	23.8
20300	23230	QPSK	1	0	1	0	21.83	16.56	22.96	22.7	17.5	23.8
			1	49	1	25	21.76	16.63	22.92	22.7	17.5	23.8
			1	99	1	49	21.72	16.79	22.93	22.7	17.5	23.8
			50	0	25	0	20.96	18.74	23.00	21.8	19.5	23.8
			50	24	25	12	20.92	18.86	23.02	21.8	19.5	23.8
			50	50	25	25	20.78	18.83	22.92	21.8	19.5	23.8
			100	0	50	0	20.69	18.89	22.89	21.8	19.5	23.8

CA_12A-4A												
Combination 10MHz+20MHz (50RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
23060	20050	QPSK	1	0	1	0	21.92	16.31	22.97	22.7	17.5	23.8
			1	25	1	49	21.67	16.11	22.74	22.7	17.5	23.8
			1	49	1	99	21.56	15.78	22.58	22.7	17.5	23.8
			25	0	50	0	21.00	18.71	23.01	21.8	19.5	23.8
			25	12	50	24	20.82	18.78	22.93	21.8	19.5	23.8
			25	25	50	50	20.78	18.89	22.95	21.8	19.5	23.8
			50	0	100	0	20.89	18.72	22.95	21.8	19.5	23.8
23095	20175	QPSK	1	0	1	0	22.13	16.35	23.15	22.7	17.5	23.8
			1	25	1	49	21.58	15.95	22.63	22.7	17.5	23.8
			1	49	1	99	21.61	15.55	22.57	22.7	17.5	23.8
			25	0	50	0	20.96	18.82	23.03	21.8	19.5	23.8
			25	12	50	24	20.89	18.67	22.93	21.8	19.5	23.8
			25	25	50	50	20.57	18.80	22.78	21.8	19.5	23.8
			50	0	100	0	20.83	18.54	22.84	21.8	19.5	23.8
23130	20300	QPSK	1	0	1	0	22.01	16.29	23.04	22.7	17.5	23.8
			1	25	1	49	21.78	15.98	22.79	22.7	17.5	23.8
			1	49	1	99	21.56	15.59	22.54	22.7	17.5	23.8
			25	0	50	0	20.92	18.72	22.97	21.8	19.5	23.8
			25	12	50	24	20.82	18.79	22.93	21.8	19.5	23.8
			25	25	50	50	20.66	18.86	22.86	21.8	19.5	23.8
			50	0	100	0	20.89	18.63	22.92	21.8	19.5	23.8

CA_13A-4A												
Combination 10MHz+20MHz (50RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
23230	20050	QPSK	1	0	1	0	21.96	16.31	23.01	22.7	17.5	23.8
			1	25	1	49	21.98	15.99	22.96	22.7	17.5	23.8
			1	49	1	99	21.93	15.82	22.88	22.7	17.5	23.8
			25	0	50	0	21.03	18.81	23.07	21.8	19.5	23.8
			25	12	50	24	21.12	18.88	23.15	21.8	19.5	23.8
			25	25	50	50	21.09	18.77	23.09	21.8	19.5	23.8
			50	0	100	0	20.93	18.81	23.01	21.8	19.5	23.8
23230	20175	QPSK	1	0	1	0	21.97	16.25	23.00	22.7	17.5	23.8
			1	25	1	49	22.05	15.97	23.01	22.7	17.5	23.8
			1	49	1	99	22.07	15.87	23.00	22.7	17.5	23.8
			25	0	50	0	20.97	18.88	23.06	21.8	19.5	23.8
			25	12	50	24	21.03	18.90	23.10	21.8	19.5	23.8
			25	25	50	50	21.04	18.63	23.01	21.8	19.5	23.8
			50	0	100	0	20.90	18.71	22.95	21.8	19.5	23.8
23230	20300	QPSK	1	0	1	0	21.89	16.11	22.91	22.7	17.5	23.8
			1	25	1	49	21.93	15.98	22.91	22.7	17.5	23.8
			1	49	1	99	21.97	15.91	22.93	22.7	17.5	23.8
			25	0	50	0	20.95	18.76	23.00	21.8	19.5	23.8
			25	12	50	24	20.89	18.75	22.96	21.8	19.5	23.8
			25	25	50	50	20.93	18.71	22.97	21.8	19.5	23.8
			50	0	100	0	20.99	18.72	23.01	21.8	19.5	23.8

CA_12A-66A												
Combination 10MHz+20MHz (50RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
23060	132072	QPSK	1	0	1	0	22.09	16.51	23.15	22.7	17.5	23.8
			1	25	1	49	22.06	16.38	23.10	22.7	17.5	23.8
			1	49	1	99	22.05	16.35	23.09	22.7	17.5	23.8
			25	0	50	0	21.10	18.31	22.94	21.8	19.5	23.8
			25	12	50	24	21.31	18.39	23.10	21.8	19.5	23.8
			25	25	50	50	21.09	18.43	22.97	21.8	19.5	23.8
			50	0	100	0	21.18	18.48	23.05	21.8	19.5	23.8
23095	132322	QPSK	1	0	1	0	21.98	16.53	23.07	22.7	17.5	23.8
			1	25	1	49	21.96	16.34	23.01	22.7	17.5	23.8
			1	49	1	99	21.92	16.34	22.98	22.7	17.5	23.8
			25	0	50	0	21.11	18.88	23.15	21.8	19.5	23.8
			25	12	50	24	21.01	18.74	23.03	21.8	19.5	23.8
			25	25	50	50	21.06	18.77	23.07	21.8	19.5	23.8
			50	0	100	0	21.11	18.71	23.08	21.8	19.5	23.8
23130	132572	QPSK	1	0	1	0	22.03	16.64	23.13	22.7	17.5	23.8
			1	25	1	49	22.05	16.55	23.13	22.7	17.5	23.8
			1	49	1	99	21.91	16.46	23.00	22.7	17.5	23.8
			25	0	50	0	21.15	18.57	23.06	21.8	19.5	23.8
			25	12	50	24	21.16	18.43	23.02	21.8	19.5	23.8
			25	25	50	50	20.93	18.57	22.92	21.8	19.5	23.8
			50	0	100	0	21.00	18.60	22.97	21.8	19.5	23.8

CA_13A-66A												
Combination 10MHz+20MHz (50RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
23230	132072	QPSK	1	0	1	0	21.63	16.81	22.87	22.7	17.5	23.8
			1	25	1	49	21.76	16.62	22.92	22.7	17.5	23.8
			1	49	1	99	21.92	16.47	23.01	22.7	17.5	23.8
			25	0	50	0	21.16	18.53	23.05	21.8	19.5	23.8
			25	12	50	24	21.15	18.55	23.05	21.8	19.5	23.8
			25	25	50	50	21.21	18.37	23.03	21.8	19.5	23.8
			50	0	100	0	21.00	18.33	22.88	21.8	19.5	23.8
23230	132322	QPSK	1	0	1	0	21.72	16.72	22.91	22.7	17.5	23.8
			1	25	1	49	21.91	16.54	23.02	22.7	17.5	23.8
			1	49	1	99	21.89	16.34	22.96	22.7	17.5	23.8
			25	0	50	0	21.14	18.53	23.04	21.8	19.5	23.8
			25	12	50	24	21.09	18.72	23.08	21.8	19.5	23.8
			25	25	50	50	21.19	18.48	23.05	21.8	19.5	23.8
			50	0	100	0	21.13	18.45	23.00	21.8	19.5	23.8
23230	132572	QPSK	1	0	1	0	21.63	16.60	22.82	22.7	17.5	23.8
			1	25	1	49	21.84	16.28	22.91	22.7	17.5	23.8
			1	49	1	99	21.96	16.26	23.00	22.7	17.5	23.8
			25	0	50	0	21.20	18.43	23.04	21.8	19.5	23.8
			25	12	50	24	21.23	18.44	23.07	21.8	19.5	23.8
			25	25	50	50	21.11	18.56	23.03	21.8	19.5	23.8
			50	0	100	0	21.26	18.39	23.07	21.8	19.5	23.8

CA_66A-12A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132072	23060	QPSK	1	0	1	0	21.79	16.77	22.98	22.7	17.5	23.8
			1	49	1	25	21.62	16.76	22.85	22.7	17.5	23.8
			1	99	1	49	21.34	16.52	22.58	22.7	17.5	23.8
			50	0	25	0	20.63	19.05	22.92	21.8	19.5	23.8
			50	24	25	12	20.68	19.08	22.96	21.8	19.5	23.8
			50	50	25	25	20.59	18.99	22.87	21.8	19.5	23.8
			100	0	50	0	20.32	18.67	22.58	21.8	19.5	23.8
132322	23095	QPSK	1	0	1	0	21.72	16.82	22.94	22.7	17.5	23.8
			1	49	1	25	21.53	16.38	22.69	22.7	17.5	23.8
			1	99	1	49	21.23	16.43	22.47	22.7	17.5	23.8
			50	0	25	0	20.78	19.11	23.04	21.8	19.5	23.8
			50	24	25	12	20.57	18.98	22.86	21.8	19.5	23.8
			50	50	25	25	20.56	18.91	22.82	21.8	19.5	23.8
			100	0	50	0	20.16	18.36	22.36	21.8	19.5	23.8
132572	23130	QPSK	1	0	1	0	21.71	16.89	22.95	22.7	17.5	23.8
			1	49	1	25	21.67	16.54	22.83	22.7	17.5	23.8
			1	99	1	49	21.25	16.28	22.45	22.7	17.5	23.8
			50	0	25	0	20.69	19.04	22.95	21.8	19.5	23.8
			50	24	25	12	20.44	19.01	22.79	21.8	19.5	23.8
			50	50	25	25	20.62	18.93	22.87	21.8	19.5	23.8
			100	0	50	0	20.23	18.45	22.44	21.8	19.5	23.8

CA_66A-13A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132072	23230	QPSK	1	0	1	0	21.88	16.62	23.01	22.7	17.5	23.8
			1	49	1	25	21.89	16.84	23.07	22.7	17.5	23.8
			1	99	1	49	21.67	17.03	22.95	22.7	17.5	23.8
			50	0	25	0	20.72	18.77	22.86	21.8	19.5	23.8
			50	24	25	12	20.67	18.78	22.84	21.8	19.5	23.8
			50	50	25	25	20.56	18.81	22.78	21.8	19.5	23.8
			100	0	50	0	20.82	18.91	22.98	21.8	19.5	23.8
132322	23230	QPSK	1	0	1	0	21.95	16.71	23.09	22.7	17.5	23.8
			1	49	1	25	21.77	17.10	23.04	22.7	17.5	23.8
			1	99	1	49	21.58	17.22	22.94	22.7	17.5	23.8
			50	0	25	0	20.89	18.74	22.96	21.8	19.5	23.8
			50	24	25	12	20.71	18.82	22.88	21.8	19.5	23.8
			50	50	25	25	20.67	18.95	22.90	21.8	19.5	23.8
			100	0	50	0	20.78	18.75	22.89	21.8	19.5	23.8
132572	23230	QPSK	1	0	1	0	21.78	16.83	22.99	22.7	17.5	23.8
			1	49	1	25	21.89	16.85	23.07	22.7	17.5	23.8
			1	99	1	49	21.64	17.09	22.95	22.7	17.5	23.8
			50	0	25	0	20.67	18.93	22.90	21.8	19.5	23.8
			50	24	25	12	20.56	18.71	22.74	21.8	19.5	23.8
			50	50	25	25	20.59	18.84	22.81	21.8	19.5	23.8
			100	0	50	0	20.69	18.82	22.87	21.8	19.5	23.8

Full Power

2CC

Configure		CA Configuration (BCS)	PCC							SCC				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		CA_5A-7A	5	10	829	20450	QPSK	1	0	7	20	2655	3100	22.29	22.36
		CA_5A-48A	5	1	829	20450	QPSK	1	0	48	20	3625	55990	22.24	22.36
		CA_7A-46A	7	20	2560	21350	QPSK	1	99	46	20	5540	50690	22.55	22.61
		CA_25A-41A	25	20	1880	26340	QPSK	1	0	41	20	2593	40620	22.41	22.47
		CA_25A-46A	25	20	1880	26340	QPSK	1	0	46	20	5540	50690	22.35	22.47
		CA_26A-41A	26	15	841.5	26965	QPSK	1	0	41	20	2593	40620	22.30	22.33
Inter-Band	Non-Contiguous	CA_5A-5A	5	10	829	20450	QPSK	1	0	5	5	891.5	2625	22.25	22.36
		CA_41A-41A	41	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	22.63	22.69
	Contiguous	CA_5B	5	10	829	20450	QPSK	1	0	5	10	883.90	2549	22.28	22.36
		CA_7C	7	20	2560	21350	QPSK	1	0	7	20	2660.20	3152	22.54	22.61
		CA_38C	38	20	2580	37850	QPSK	1	0	38	20	2599.80	38048	22.56	22.59

3CC

Configure		CA Configuration (BCS)	PCC							SCC1				SCC2				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		CA_2A-4A-4A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	22.31	22.41
		CA_2A-4A-5A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	5	10	881.5	2525	22.30	22.41
		CA_2A-4A-7A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	7	20	2655	3100	22.32	22.41
		CA_2A-4A-13A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	13	10	751	5230	22.39	22.41
		CA_2A-4A-29A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	29	10	722.5	9715	22.31	22.41
		CA_2A-5A-30A	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	30	10	2355	9820	22.33	22.41
		CA_2A-7A-7A	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	7	5	2687.5	3425	22.39	22.41
		CA_2A-12A-30A	2	20	1880	18900	QPSK	1	0	12	10	737.5	5095	30	10	2355	9820	22.30	22.41
		CA_2A-29A-30A	2	20	1880	18900	QPSK	1	0	29	10	722.5	9715	30	10	2355	9820	22.38	22.41
		CA_2A-46A-46A	2	20	1880	18900	QPSK	1	0	46	20	5160	46890	46	20	5905	54340	22.18	22.41
		CA_2A-46A-48A	2	20	1880	18900	QPSK	1	0	46	20	5160	46890	48	20	3625	55990	22.39	22.41
		CA_2A-46A-66A	2	20	1880	18900	QPSK	1	0	46	20	5540	50690	66	20	2155	66886	22.30	22.41
		CA_2A-48A-48A	2	20	1880	18900	QPSK	1	0	48	20	3625	55990	48	5	3697.5	56715	22.31	22.41
		CA_2A-48A-66A	2	20	1880	18900	QPSK	1	0	48	20	3625	55990	66	20	2155	66886	22.33	22.41
		CA_4A-4A-5A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	22.42	22.52
		CA_4A-4A-7A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	7	5	2687.5	3425	22.47	22.52
		CA_4A-4A-12A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	22.32	22.52
		CA_4A-4A-13A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	13	10	751	5230	22.43	22.52
		CA_4A-4A-71A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	71	20	637	68786	22.50	22.52
		CA_4A-5A-30A	4	20	1732.5	20175	QPSK	1	0	5	10	881.5	2525	30	10	2355	9820	22.42	22.52
		CA_4A-7A-7A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	7	5	2687.5	3425	22.30	22.52
		CA_4A-7A-12A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	22.38	22.52
		CA_4A-12A-30A	4	20	1732.5	20175	QPSK	1	0	12	10	737.5	5095	30	10	2355	9820	22.33	22.52
		CA_4A-29A-30A	4	20	1732.5	20175	QPSK	1	0	29	10	722.5	9715	30	10	2355	9820	22.36	22.52
		CA_4A-46A-46A	4	20	1732.5	20175	QPSK	1	0	46	20	5160	46890	46	20	5905	54340	22.41	22.52
		CA_5A-30A-66A	5	10	829	20450	QPSK	1	0	30	10	2355	9820	66	20	2155	66886	22.32	22.36
		CA_5A-66A-66A	5	10	829	20450	QPSK	1	0	66	20	2155	66886	66	5	2197.5	67311	22.26	22.36
		CA_12A-30A-66A	12	10	707.5	23095	QPSK	1	49	30	10	2355	9820	66	20	2155	66886	22.49	22.63
		CA_12A-66A-66A	12	10	707.5	23095	QPSK	1	49	66	20	2155	66886	66	5	2197.5	67311	22.53	22.63
		CA_13A-66A-66A	13	10	782	23230	QPSK	1	25	66	20	2155	66886	66	5	2197.5	67311	22.46	22.58
		CA_25A-25A-26A	25	20	1880	26340	QPSK	1	0	25	5	1992.5	8665	26	5	876.5	8865	22.41	22.47
		CA_46A-48A-66A	66	20	1745	132322	QPSK	1	0	48	20	3560	55340	46	20	5905	54340	22.46	22.55
		CA_48A-48A-66A	66	20	1745	132322	QPSK	1	0	48	20	3560	55340	48	20	3690	56640	22.43	22.55
		CA_66A-46A-46A	66	20	1745	132322	QPSK	1	0	46	20	5160	46890	46	20	5905	54340	22.45	22.55
		CA_2A-48C	2	20	1880	18900	QPSK	1	0	48	20	3625	55990	48	20	3644.5	56188	22.30	22.41
		CA_5A-66C	5	10	829	20450	QPSK	1	0	66	20M	2155	66886	66	20	2174.8	67084	22.35	22.36
		CA_7A-46C	7	20	2560	21350	QPSK	1	99	46	20	5540.2	50692	46	20	5560	50890	22.53	22.61
		CA_12A-66C	12	10	707.5	23095	QPSK	1	49	66	20M	2155	66886	66	20	2174.8	67084	22.59	22.63
		CA_13A-66C	13	10	782	23230	QPSK	1	25	66	20M	2155	66886	66	20	2174.8	67084	22.50	22.58
		CA_25A-41C	25	20	1880	26340	QPSK	1	0	41	20	2660.2	41292	41	20	2680	41490	22.40	22.47
		CA_25A-46C	25	20	1880	26340	QPSK	1	0	46	20	5540.2	50692	46	20	5560	50890	22.41	22.47
Intra-Band	Contiguous	CA_41A-41C	41	20	2549.5	40185	QPSK	1	49	41	5	2687.5	41565	41	20	2675.8	41448	22.59	22.69
		CA_48A-48C	48	20	3660	56340	QPSK	1	49	48	20	3679.8	56538	48	5	3697.5	56715	22.81	22.82
		CA_66A-66C	66	20	1745	132322	QPSK	1	0	66	20	2185	67186	66	5	2196.7	67303	22.44	22.55

4CC

Configure		CA Configuration (BCS)	PCC							SCC1				SCC2				SCC3				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Intra-Band		CA_2A-2A-4A-12A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	4	20	2132.5	2175	12	10	737.5	5095	22.36	22.41
		CA_2A-2A-4A-71A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	4	20	2132.5	2175	71	20	637	68786	22.22	22.41
		CA_2A-2A-5A-66A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	5	10	881.5	2525	66	20	2155	66886	22.36	22.41
		CA_2A-2A-12A-66A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	12	10	737.5	5095	66	20	2155	66886	22.40	22.41
		CA_2A-2A-13A-66A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	13	10	751	5230	66	20	2155	66886	22.22	22.41
		CA_2A-2A-66A-66A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	66	20	2155	66886	66	5	2197.5	67311	22.34	22.41
		CA_2A-2A-66A-71A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	66	20	2155	66886	71	20	637	68786	22.35	22.41
		CA_2A-5A-66A-66A	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	66	20	2155	66886	66	5	2197.5	67311	22.40	22.41
		CA_2A-12A-66A-66A	2	20	1880	18900	QPSK	1	0	12	10	737.5	5095	66	20	2155	66886	66	5	2197.5	67311	22.36	22.41
		CA_2A-13A-66A-66A	2	20	1880	18900	QPSK	1	0	13	10	751	5230	66	20	2155	66886	66	5	2197.5	67311	22.37	22.41
		CA_2A-46A-46A-66A	2	20	1880	18900	QPSK	1	0	46	20	5540	50690	46	20	5160	46890	66	20	2155	66886	22.38	22.41
		CA_2A-66A-66A-71A	2	20	1880	18900	QPSK	1	0	66	20	2155	66886	66	5	2197.5	67311	71	20	637	68786	22.41	22.41
		CA_2A-2A-46C	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	46	20	5585.5	54142	46	20	5605.3	54340	22.38	22.41
		CA_2A-2A-66C	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	66	20	2155	66886	66	20	2174.8	67084	22.34	22.41
		CA_2A-5A-66B	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	66	15	2155	66886	66	5	2164.3	66979	22.39	22.41
		CA_2A-5A-66C	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	66	20	2155	66886	66	20	2174.8	67084	22.36	22.41
		CA_2A-12A-66C	2	20	1880	18900	QPSK	1	0	12	10	737.5	5095	66	20	2155	66886	66	20	2174.8	67084	22.40	22.41
		CA_2A-13A-66B	2	20	1880	18900	QPSK	1	0	13	10	751	5230	66	15	2155	66886	66	5	2164.3	66979	22.38	22.41
		CA_2A-13A-66C	2	20	1880	18900	QPSK	1	0	13	10	751	5230	66	20	2155	66886	66	20	2174.8	67084	22.38	22.41
		CA_2A-46A-46C	2	20	1880	18900	QPSK	1	0	46	20	5160	46890	46	20	5540.2	50692	46	20	5560	50890	22.39	22.41
		CA_2A-46C-48A	2	20	1880	18900	QPSK	1	0	46	20	5540.2	50692	46	20	5560	50890	48	20	3625	55990	22.22	22.41
		CA_2A-46A-48C	2	20	1880	18900	QPSK	1	0	46	20	5160	46890	48	20	3625	55990	48	20	3644.5	56188	22.31	22.41
		CA_2A-46C-66A	2	20	1880	18900	QPSK	1	0	46	20	5540.2	50692	46	20	5560	50890	66	20	2155	66886	22.40	22.41
		CA_2A-66C-71A	2	20	1880	18900	QPSK	1	0	66	20	2155	66886	66	20	2174.8	67084	71	20	637	68786	22.36	22.41
		CA_2C-66A-66A	2	20	1880	18900	QPSK	1	0	2	20	1979.8	1098	66	20	2155	66886	66	5	2197.5	67311	22.37	22.41
		CA_4A-46A-46C	4	20	1732.5	20175	QPSK	1	0	46	20	5160	46890	46	20	5540.2	50692	46	20	5560	50890	22.40	22.52
		CA_46A-46C-66A	66	20	1745	132322	QPSK	1	0	46	20	5537.5	50665	46	20	5160	46890	46	20	5179.8	47088	22.34	22.55
		CA_46A-48C-66A	66	20	1745	132322	QPSK	1	0	46	20	5537.5	50665	48	20	3660	56340	48	20	3679.8	56538	22.40	22.55
		CA_46C-48A-66A	66	20	1745	132322	QPSK	1	0	46	20	5537.5	50665	46	20	5557.3	50863	48	20	3660	56340	22.41	22.55
		CA_25A-41D	25	20	1880	26340	QPSK	1	0	41	20	2593	40620	41	20	2612.8	40818	41	20	2632.6	41016	22.36	22.47
		CA_25A-46D	25	20	1880	26340	QPSK	1	0	46	20	5537.5	50665	46	20	5557.3	50863	46	20	5577.1	51061	22.37	22.47
Intra-Band	Contiguous	CA_41A-41D	41	20	2549.5	40185	QPSK	1	49	41	20	2462.2	41094	41	20	2660.2	41292	41	20	2680	41490	22.63	22.69
		CA_41C-41C	41	20	2549.5	40185	QPSK	1	49	41	20	2569.3	40383	41	20	2660.2	41292	41	20	2680	41490	22.61	22.69
		CA_41E	41	20	2549.5	40185	QPSK	1	49	41	20	2612.8	40818	41	20	2632.6	41016	41	20	2652.6	41214	22.61	22.69

5CC

Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				SCC3				SCC4				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	CA_2A-46A-46C-66A	2	20	1880	18900	QPSK	1	0	46	20	5160	46890	46	20	5540.2	50692	46	20	5560	50890	66	20	2155	66886	22.34	22.41
	CA_2A-2A-46D	2	20	1880	18900	QPSK	1	0	2	5	1932.5	625	46	20	5520.2	50492	46	20	5540	50690	46	20	5559.8	50888	22.32	22.41
	CA_2A-46A-46D	2	20	1880	18900	QPSK	1	0	46	20	5537.5	50665	46	20	5160	46890	46	20	5179.8	47088	46	20	5199.5	47286	22.33	22.41
	CA_2A-46A-48D	2	20	1880	18900	QPSK	1	0	46	20	5537.5	50665	48	20	3609	55830	48	20	3628.8	56028	48	20	3648.6	56226	22.24	22.41
	CA_2A-46C-48C	2	20	1880	18900	QPSK	1	0	46	20	5540.2	50692	48	20	5560	50890	48	20	3560	55340	48	20	3579.8	55538	22.27	22.41
	CA_2A-46D-48A	2	20	1880	18900	QPSK	1	0	48	20	3625	55990	46	20	5520.2	50492	46	20	5540	50690	46	20	5559.8	50888	22.29	22.41
	CA_2A-46D-66A	2	20	1880	18900	QPSK	1	0	46	20	5520.2	50492	46	20	5540	50690	46	20	5559.8	51061	66	20	2155	66886	22.36	22.41
	CA_4A-46A-46D	4	20	1732.5	20175	QPSK	1	0	46	20	5537.5	50665	46	20	5160	46890	46	20	5179.8	47088	46	20	5199.6	47286	22.38	22.52
	CA_46A-46D-66A	66	20	1745	132322	QPSK	1	0	46	20	5160	46890	46	20	5520.2	50492	46	20	5540	50690	46	20	5559.8	50888	22.43	22.55
	CA_46A-48D-66A	66	20	1745	132322	QPSK	1	0	46	20	5160	46890	48	20	3609	55830	48	20	3628.8	56028	48	20	3648.6	56226	22.37	22.55
	CA_46C-48C-66A	66	20	1745	132322	QPSK	1	0	46	20	5540.2	50692	48	20	5560	50890	48	20	3560	55340	48	20	3579.8	55538	22.41	22.55
	CA_46D-48A-66A	66	20	1745	132322	QPSK	1	0	48	20	3625	55990	46	20	5520.2	50492	46	20	5540	50690	46	20	5559.8	50888	22.44	22.55
	CA_2A-46E	2	20	1880	18900	QPSK	1	0	46	20	5537.5	50665	46	20	5557.3	50863	46	20	5577.1	51061	46	20	5596.9	51259	22.35	22.41
	CA_41C-41D	41	20	2549.5	40185	QPSK	1	49	41	20	2569.3	40383	41	20	2640.4	41094	41	20	2660.2	41292	41	20	2680	41490	22.56	22.69
	CA_46C-48D	48	20	3560	55340	QPSK	1	0	48	20	3579.8	55538	48	20	3599.6	55736	46	20	5540.2	50692	46	20	5560	50890	22.48	22.56
	CA_46D-48C	48	20	3560	55340	QPSK	1	0	48	20	3579.8	55538	46	20	5520.2	50492	46	20	5540	50690	46	20	5559.8	50888	22.51	22.56
	CA_46E-66A	66	20	1745	132322	QPSK	1	0	46	20	5520	50490	46	20	5539.8	50688	46	20	5559.9	50889	46	20	5580	50190	22.45	22.55
	CA_48E-66A	66	20	1745	132322	QPSK	1	0	48	20	3609	55830	48	20	3628.8	56028	48	20	3648.6	56226	48	20	3668.4	56424	22.41	22.55

Full Power for ANT0

N5								
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				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	22.46	22.45	22.34	23.3	0.0
20	PI/2 BPSK	1	53	22.67	22.55	22.60		
20	PI/2 BPSK	1	104	22.45	22.37	22.27		
20	PI/2 BPSK	50	0	21.87	21.82	21.95	23.3	0.0
20	PI/2 BPSK	50	28	22.39	22.36	22.33		
20	PI/2 BPSK	50	56	21.86	21.84	21.76		
20	PI/2 BPSK	100	0	21.92	21.58	21.44	22.8	0.5
20	QPSK	1	1	22.42	22.30	22.44	23.3	0.0
20	QPSK	1	53	22.50	22.44	22.43		
20	QPSK	1	104	22.35	22.37	22.35		
20	QPSK	50	0	21.33	21.35	21.38	23.3	0.0
20	QPSK	50	28	22.37	22.35	22.27		
20	QPSK	50	56	21.30	21.26	21.32		
20	QPSK	100	0	21.44	21.37	21.29	22.3	1.0
20	16QAM	1	53	21.59	21.27	21.54	22.3	1.0
20	64QAM	1	53	20.01	19.98	20.01	21.3	2.0
20	256QAM	1	53	18.12	18.12	17.98	18.8	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	PI/2 BPSK	1	40	22.44	22.44	22.40	23.3	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	PI/2 BPSK	1	26	22.49	22.43	22.35	23.3	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	PI/2 BPSK	1	13	22.46	22.43	22.32	23.3	0.0

N71								
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				134600	136100	137600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	22.28	22.13	22.08	23.3	0.0
20	PI/2 BPSK	1	53	22.37	22.22	22.21		
20	PI/2 BPSK	1	104	22.15	21.99	21.79		
20	PI/2 BPSK	50	0	21.67	21.66	21.52	23.3	0.0
20	PI/2 BPSK	50	28	22.24	22.08	22.07		
20	PI/2 BPSK	50	56	21.67	21.43	21.36		
20	PI/2 BPSK	100	0	21.62	21.60	21.43	22.8	0.5
20	QPSK	1	1	22.35	22.13	22.21	23.3	0.0
20	QPSK	1	53	22.20	22.18	22.04		
20	QPSK	1	104	22.18	22.03	21.85		
20	QPSK	50	0	21.13	21.15	21.03	23.3	0.0
20	QPSK	50	28	22.20	22.05	22.04		
20	QPSK	50	56	21.11	20.92	20.88		
20	QPSK	100	0	21.15	21.06	20.91	22.3	1.0
20	16QAM	1	53	21.05	20.97	20.86	22.3	1.0
20	64QAM	1	53	19.65	19.72	19.64	21.3	2.0
20	256QAM	1	53	17.84	17.86	17.65	18.8	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	PI/2 BPSK	1	40	22.32	22.22	22.14	23.3	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	PI/2 BPSK	1	26	22.25	22.15	22.16	23.3	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	PI/2 BPSK	1	13	22.21	22.13	22.10	23.3	0.0

Full Power for ANT2

N2

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				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	21.01	20.99	20.98	21.8	0.0
20	PI/2 BPSK	1	53	21.32	21.18	21.29		
20	PI/2 BPSK	1	104	20.88	20.86	20.74		
20	PI/2 BPSK	50	0	20.43	20.44	20.32	21.8	0.0
20	PI/2 BPSK	50	28	20.88	20.87	20.86		
20	PI/2 BPSK	50	56	20.45	20.39	20.38		
20	PI/2 BPSK	100	0	20.39	20.38	20.35	21.3	0.5
20	QPSK	1	1	21.04	21.07	20.89	21.8	0.0
20	QPSK	1	53	21.20	21.15	20.97		
20	QPSK	1	104	20.98	21.00	20.94		
20	QPSK	50	0	19.88	19.92	19.85	21.8	0.0
20	QPSK	50	28	20.89	20.93	20.75		
20	QPSK	50	56	19.93	19.92	19.77		
20	QPSK	100	0	19.91	19.97	19.80	20.8	1.0
20	16QAM	1	53	20.01	20.03	20.01	20.8	1.0
20	64QAM	1	53	19.15	19.04	18.78	19.8	2.0
20	256QAM	1	53	16.59	16.88	16.67	17.3	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	PI/2 BPSK	1	40	20.98	20.97	20.90	21.8	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	PI/2 BPSK	1	26	20.94	20.88	20.83	21.8	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	PI/2 BPSK	1	13	20.97	20.89	20.86	21.8	0.0

N25

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				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1905		
20	PI/2 BPSK	1	1	20.90	21.04	20.87	21.8	0.0
20	PI/2 BPSK	1	53	21.10	21.11	20.97		
20	PI/2 BPSK	1	104	20.95	20.96	20.92		
20	PI/2 BPSK	50	0	20.53	20.38	20.30	21.8	0.0
20	PI/2 BPSK	50	28	20.98	21.01	20.86		
20	PI/2 BPSK	50	56	20.55	20.54	20.50		
20	PI/2 BPSK	100	0	20.49	20.55	20.30	21.3	0.5
20	QPSK	1	1	21.05	21.07	20.97	21.8	0.0
20	QPSK	1	53	21.09	21.08	21.06		
20	QPSK	1	104	21.08	21.06	21.01		
20	QPSK	50	0	20.00	20.02	19.89	21.8	0.0
20	QPSK	50	28	21.00	21.04	20.88		
20	QPSK	50	56	19.98	20.15	19.98		
20	QPSK	100	0	19.95	20.03	19.87	20.8	1.0
20	16QAM	1	53	20.11	20.07	19.99	20.8	1.0
20	64QAM	1	53	19.23	19.13	18.86	19.8	2.0
20	256QAM	1	53	16.50	16.83	16.72	17.3	4.5
Channel				371500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	PI/2 BPSK	1	40	21.02	20.98	20.83	21.8	0.0
Channel				371000	376000	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	PI/2 BPSK	1	26	21.04	21.01	20.86	21.8	0.0
Channel				370500	376000	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	PI/2 BPSK	1	13	20.99	20.99	20.81	21.8	0.0

N66

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				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	21.00	20.80	20.65	21.8	0.0
20	PI/2 BPSK	1	53	21.06	20.81	20.69		
20	PI/2 BPSK	1	104	20.89	20.80	20.52		
20	PI/2 BPSK	50	0	20.55	20.36	20.27	21.8	0.0
20	PI/2 BPSK	50	28	20.99	20.84	20.72		
20	PI/2 BPSK	50	56	20.43	20.32	20.17		
20	PI/2 BPSK	100	0	20.51	20.33	20.22	21.3	0.5
20	QPSK	1	1	21.00	20.99	20.83	21.8	0.0
20	QPSK	1	53	21.03	20.93	20.86		
20	QPSK	1	104	20.99	20.91	20.82		
20	QPSK	50	0	19.95	19.83	19.72	21.8	0.0
20	QPSK	50	28	20.96	20.79	20.69		
20	QPSK	50	56	19.97	19.76	19.67		
20	QPSK	100	0	19.87	19.84	19.67	20.8	1.0
20	16QAM	1	53	19.95	20.33	20.21	20.8	1.0
20	64QAM	1	53	19.18	18.97	18.71	19.8	2.0
20	256QAM	1	53	16.29	16.78	16.42	17.3	4.5
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI/2 BPSK	1	40	20.93	20.97	20.95	21.8	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	26	20.90	20.88	20.82	21.8	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	13	20.94	20.84	20.78	21.8	0.0

N41_FCC

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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.75	19.80	19.72	21.0	0.0
100	PI/2 BPSK	1	137	19.64	19.70	19.57		
100	PI/2 BPSK	1	271	19.49	19.54	19.43		
100	PI/2 BPSK	135	0	19.56	19.64	19.55	21.0	0.0
100	PI/2 BPSK	135	69	19.64	19.68	19.59		
100	PI/2 BPSK	135	138	19.60	19.60	19.56		
100	PI/2 BPSK	270	0	19.60	19.65	19.58	21.0	0.0
100	QPSK	1	1	19.63	19.74	19.65	21.0	0.0
100	QPSK	1	137	19.52	19.70	19.55		
100	QPSK	1	271	19.41	19.52	19.56		
100	QPSK	135	0	19.44	19.49	19.46	21.0	0.0
100	QPSK	135	69	19.50	19.53	19.51		
100	QPSK	135	138	19.41	19.47	19.49		
100	QPSK	270	0	19.42	19.50	19.41	21.0	0.0
100	16QAM	1	1	19.56	19.74	19.69	21.0	0.0
100	64QAM	1	1	19.69	19.69	19.64	21.0	0.0
100	256QAM	1	1	18.26	18.13	18.31	19.5	1.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	19.72	19.75	19.69	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	19.70	19.77	19.68	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	19.62	19.68	19.59	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	19.60	19.62	19.55	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	19.68	19.73	19.62	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	19.65	19.69	19.63	21.0	0.0

N41(HPUE)_FCC

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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.71	21.74	21.58	23.0	0.0
100	PI/2 BPSK	1	137	21.56	21.67	21.45		
100	PI/2 BPSK	1	271	21.32	21.42	21.40		
100	PI/2 BPSK	135	0	21.57	21.61	21.53	23.0	0.0
100	PI/2 BPSK	135	69	21.59	21.66	21.55		
100	PI/2 BPSK	135	138	21.52	21.62	20.47		
100	PI/2 BPSK	270	0	21.57	21.65	21.53	23.0	0.0
100	QPSK	1	1	21.70	21.72	21.41	23.0	0.0
100	QPSK	1	137	21.51	21.61	21.41		
100	QPSK	1	271	21.37	21.54	21.35		
100	QPSK	135	0	21.45	21.51	21.35	23.0	0.0
100	QPSK	135	69	21.40	21.51	21.31		
100	QPSK	135	138	21.30	21.39	21.30		
100	QPSK	270	0	21.36	21.46	21.29	23.0	0.0
100	16QAM	1	1	21.57	21.62	21.61	23.0	0.0
100	64QAM	1	1	20.25	20.32	20.24	21.5	1.5
100	256QAM	1	1	18.38	18.28	18.32	19.5	3.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	21.66	21.72	21.67	23.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	21.64	21.71	21.69	23.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	21.67	21.69	21.68	23.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	21.70	21.73	21.70	23.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	21.69	21.59	21.61	23.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	21.65	21.65	21.63	23.0	0.0

Reduced power level 1 for Head - ANT0

N5								
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				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	21.43	21.38	21.41	22.3	0.0
20	PI/2 BPSK	1	53	21.60	21.54	21.49		
20	PI/2 BPSK	1	104	21.42	21.39	21.43		
20	PI/2 BPSK	50	0	21.31	21.34	21.30	22.3	0.0
20	PI/2 BPSK	50	28	21.56	21.53	21.45		
20	PI/2 BPSK	50	56	21.42	21.41	21.31		
20	PI/2 BPSK	100	0	21.54	21.50	21.42	22.3	0.0
20	QPSK	1	1	21.37	21.31	21.37	22.3	0.0
20	QPSK	1	53	21.46	21.29	21.32		
20	QPSK	1	104	21.28	21.27	21.23		
20	QPSK	50	0	21.34	21.14	21.11	22.3	0.0
20	QPSK	50	28	21.35	21.30	21.31		
20	QPSK	50	56	21.29	21.25	21.30		
20	QPSK	100	0	21.17	21.16	21.14	22.3	0.0
20	16QAM	1	53	21.36	21.32	21.33	22.3	0.0
20	64QAM	1	53	21.12	21.16	21.10	22.3	0.0
20	256QAM	1	53	19.05	19.03	18.98	19.8	2.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	PI/2 BPSK	1	40	21.37	21.35	21.32	22.3	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	PI/2 BPSK	1	26	21.36	21.35	21.31	22.3	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	PI/2 BPSK	1	13	21.34	21.30	21.28	22.3	0.0

N71								
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				134600	136100	137600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	20.86	20.80	20.78	22.0	0.0
20	PI/2 BPSK	1	53	20.98	20.83	20.81		
20	PI/2 BPSK	1	104	20.73	20.69	20.74		
20	PI/2 BPSK	50	0	20.85	20.71	20.73	22.0	0.0
20	PI/2 BPSK	50	28	20.95	20.82	20.80		
20	PI/2 BPSK	50	56	20.79	20.73	20.78		
20	PI/2 BPSK	100	0	20.93	20.80	20.77	22.0	0.0
20	QPSK	1	1	20.91	20.90	20.90	22.0	0.0
20	QPSK	1	53	20.87	20.84	20.81		
20	QPSK	1	104	20.63	20.65	20.59		
20	QPSK	50	0	20.86	20.83	20.86	22.0	0.0
20	QPSK	50	28	20.68	20.71	20.66		
20	QPSK	50	56	20.78	20.76	20.78		
20	QPSK	100	0	20.78	20.78	20.79	22.0	0.0
20	16QAM	1	53	20.73	20.71	20.68	22.0	0.0
20	64QAM	1	53	20.22	20.16	20.13	22.0	0.0
20	256QAM	1	53	18.15	18.11	18.08	19.5	2.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	PI/2 BPSK	1	40	20.71	20.69	20.68	22.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	PI/2 BPSK	1	26	20.73	20.69	20.64	22.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	PI/2 BPSK	1	13	20.72	20.68	20.66	22.0	0.0

Reduced power level 1 for Head - ANT2

N2

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				372000	376000	380000	Tune-up limit	MPR
Frequency (MHz)				1860	1880	1900	(dBm)	(dB)
20	PI/2 BPSK	1	1	15.07	15.02	15.01	15.9	0.0
20	PI/2 BPSK	1	53	15.32	15.29	15.31		
20	PI/2 BPSK	1	104	14.96	14.94	14.92		
20	PI/2 BPSK	50	0	15.21	15.23	15.19	15.9	0.0
20	PI/2 BPSK	50	28	15.30	15.28	15.26		
20	PI/2 BPSK	50	56	15.25	15.23	15.21		
20	PI/2 BPSK	100	0	15.27	15.26	15.25	15.9	0.0
20	QPSK	1	1	15.12	15.08	15.05	15.9	0.0
20	QPSK	1	53	15.16	15.14	15.06		
20	QPSK	1	104	15.08	15.11	15.06		
20	QPSK	50	0	15.08	15.10	15.04	15.9	0.0
20	QPSK	50	28	15.12	15.06	15.08		
20	QPSK	50	56	15.06	15.08	15.09		
20	QPSK	100	0	15.11	15.13	15.10	15.9	0.0
20	16QAM	1	53	15.14	15.15	15.11	15.9	0.0
20	64QAM	1	53	15.23	15.23	15.20	15.9	0.0
20	256QAM	1	53	15.23	15.22	15.20	15.9	0.0
Channel				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	15.26	15.24	15.22	15.9	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	PI/2 BPSK	1	26	15.27	15.26	15.26	15.9	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	15.30	15.28	15.25	15.9	0.0

N25

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				372000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1860	1880	1905	(dBm)	(dB)
20	PI/2 BPSK	1	1	14.98	15.00	14.95	15.9	0.0
20	PI/2 BPSK	1	53	15.19	15.23	15.17		
20	PI/2 BPSK	1	104	15.14	15.18	15.11		
20	PI/2 BPSK	50	0	14.91	14.95	14.88	15.9	0.0
20	PI/2 BPSK	50	28	15.16	15.19	15.14		
20	PI/2 BPSK	50	56	15.00	15.02	14.98		
20	PI/2 BPSK	100	0	15.13	15.14	15.11	15.9	0.0
20	QPSK	1	1	14.91	14.93	14.90	15.9	0.0
20	QPSK	1	53	15.15	15.18	15.15		
20	QPSK	1	104	15.03	15.06	15.03		
20	QPSK	50	0	14.97	14.96	14.96	15.9	0.0
20	QPSK	50	28	15.11	15.13	15.06		
20	QPSK	50	56	15.06	15.05	15.00		
20	QPSK	100	0	14.88	14.90	14.84	15.9	0.0
20	16QAM	1	53	15.14	15.18	15.13	15.9	0.0
20	64QAM	1	53	15.00	15.02	15.01	15.9	0.0
20	256QAM	1	53	15.06	15.10	15.04	15.9	0.0
Channel				371500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1907.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	15.03	15.05	15.01	15.9	0.0
Channel				371000	376000	382000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1910	(dBm)	(dB)
10	PI/2 BPSK	1	26	15.04	15.07	15.03	15.9	0.0
Channel				370500	376000	382500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1912.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	15.06	15.07	15.06	15.9	0.0

N66

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				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	PI/2 BPSK	1	1	14.41	14.23	14.16	15.2	0.0
20	PI/2 BPSK	1	53	14.68	14.65	14.49		
20	PI/2 BPSK	1	104	14.32	14.13	14.35		
20	PI/2 BPSK	50	0	14.60	14.43	14.15	15.2	0.0
20	PI/2 BPSK	50	28	14.64	14.63	14.46		
20	PI/2 BPSK	50	56	14.56	14.42	14.16		
20	PI/2 BPSK	100	0	14.62	14.60	14.43	15.2	0.0
20	QPSK	1	1	14.40	14.36	14.33	15.2	0.0
20	QPSK	1	53	14.42	14.37	14.32		
20	QPSK	1	104	14.38	14.31	14.25		
20	QPSK	50	0	14.36	14.30	14.27	15.2	0.0
20	QPSK	50	28	14.38	14.32	14.29		
20	QPSK	50	56	14.34	14.28	14.25		
20	QPSK	100	0	14.36	14.30	14.23	15.2	0.0
20	16QAM	1	53	14.43	14.25	14.21	15.2	0.0
20	64QAM	1	53	14.47	14.38	14.14	15.2	0.0
20	256QAM	1	53	14.50	14.49	14.39	15.2	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	14.57	14.40	14.28	15.2	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	PI/2 BPSK	1	26	14.56	14.36	14.22	15.2	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	14.53	14.38	14.28	15.2	0.0

N41_FCC

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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	Pi/2 BPSK	1	1	15.16	15.20	15.14	16.4	0.0
100	Pi/2 BPSK	1	137	15.04	15.08	15.08		
100	Pi/2 BPSK	1	271	15.04	15.05	15.04		
100	Pi/2 BPSK	135	0	15.00	15.03	15.02	16.4	0.0
100	Pi/2 BPSK	135	69	15.13	15.16	15.12		
100	Pi/2 BPSK	135	138	14.92	14.95	14.91		
100	Pi/2 BPSK	270	0	15.11	15.13	15.10	16.4	0.0
100	QPSK	1	1	14.98	15.11	15.03	16.4	0.0
100	QPSK	1	137	15.02	15.08	15.01		
100	QPSK	1	271	14.91	15.06	14.90		
100	QPSK	135	0	14.80	14.84	14.78	16.4	0.0
100	QPSK	135	69	14.84	14.82	14.82		
100	QPSK	135	138	14.83	14.86	14.82		
100	QPSK	270	0	14.80	14.83	14.78	16.4	0.0
100	16QAM	1	1	15.04	15.02	15.04	16.4	0.0
100	64QAM	1	1	15.06	15.08	15.04	16.4	0.0
100	256QAM	1	1	15.10	15.11	15.08	16.4	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	Pi/2 BPSK	1	1	14.96	14.98	14.94	16.4	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2648.99		
80	Pi/2 BPSK	1	1	14.94	14.96	14.95	16.4	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	Pi/2 BPSK	1	1	14.93	14.95	14.93	16.4	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2523.02	2592.99	2664.99		
50	Pi/2 BPSK	1	1	14.88	14.90	14.84	16.4	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2670		
40	Pi/2 BPSK	1	1	14.89	14.93	14.86	16.4	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2679.98		
20	Pi/2 BPSK	1	1	14.93	14.95	14.88	16.4	0.0

N41(HPUE)_FCC

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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	Pi/2 BPSK	1	1	15.16	15.20	15.14	16.4	0.0
100	Pi/2 BPSK	1	137	15.04	15.08	15.08		
100	Pi/2 BPSK	1	271	15.04	15.05	15.04		
100	Pi/2 BPSK	135	0	15.00	15.03	15.02	16.4	0.0
100	Pi/2 BPSK	135	69	15.13	15.16	15.12		
100	Pi/2 BPSK	135	138	14.92	14.95	14.91		
100	Pi/2 BPSK	270	0	15.11	15.13	15.10	16.4	0.0
100	QPSK	1	1	14.98	15.11	15.03	16.4	0.0
100	QPSK	1	137	15.02	15.08	15.01		
100	QPSK	1	271	14.91	15.06	14.90		
100	QPSK	135	0	14.80	14.84	14.78	16.4	0.0
100	QPSK	135	69	14.84	14.82	14.82		
100	QPSK	135	138	14.83	14.86	14.82		
100	QPSK	270	0	14.80	14.83	14.78	16.4	0.0
100	16QAM	1	1	15.04	15.02	15.04	16.4	0.0
100	64QAM	1	1	15.06	15.08	15.04	16.4	0.0
100	256QAM	1	1	15.10	15.11	15.08	16.4	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	Pi/2 BPSK	1	1	14.96	14.98	14.94	16.4	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2648.99		
80	Pi/2 BPSK	1	1	14.94	14.96	14.95	16.4	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	Pi/2 BPSK	1	1	14.93	14.95	14.93	16.4	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2523.02	2592.99	2664.99		
50	Pi/2 BPSK	1	1	14.88	14.90	14.84	16.4	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2670		
40	Pi/2 BPSK	1	1	14.89	14.93	14.86	16.4	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2679.98		
20	Pi/2 BPSK	1	1	14.93	14.95	14.88	16.4	0.0

Reduced power level 2/3/4 for Head - ANT0

N5								
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				166800	167300	167800	Tune-up limit	MPR
Frequency (MHz)				834	836.5	839	(dBm)	(dB)
20	PI/2 BPSK	1	1	18.40	18.34	18.28	19.2	0.0
20	PI/2 BPSK	1	53	18.44	18.40	18.38		
20	PI/2 BPSK	1	104	18.31	18.26	18.22		
20	PI/2 BPSK	50	0	18.31	18.29	18.27	19.2	0.0
20	PI/2 BPSK	50	28	18.38	18.36	18.35		
20	PI/2 BPSK	50	56	18.22	18.23	18.17		
20	PI/2 BPSK	100	0	18.36	18.34	18.32	19.2	0.0
20	QPSK	1	1	18.34	18.32	18.32	19.2	0.0
20	QPSK	1	53	18.42	18.37	18.37		
20	QPSK	1	104	18.26	18.23	18.22		
20	QPSK	50	0	18.35	18.32	18.38	19.2	0.0
20	QPSK	50	28	18.39	18.33	18.36		
20	QPSK	50	56	18.32	18.30	18.26		
20	QPSK	100	0	18.22	18.19	18.16	19.2	0.0
20	16QAM	1	53	18.14	18.10	18.12	19.2	0.0
20	64QAM	1	53	18.42	18.39	18.41	19.2	0.0
20	256QAM	1	53	18.40	18.43	18.42	19.2	0.0
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	18.33	18.32	18.28	19.2	0.0
Channel				165800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	PI/2 BPSK	1	26	18.33	18.32	18.29	19.2	0.0
Channel				165300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	18.31	18.31	18.30	19.2	0.0

N71								
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				134600	136100	137600	Tune-up limit	MPR
Frequency (MHz)				673	680.5	688	(dBm)	(dB)
20	PI/2 BPSK	1	1	17.80	17.70	17.59	18.7	0.0
20	PI/2 BPSK	1	53	17.83	17.72	17.66		
20	PI/2 BPSK	1	104	17.65	17.61	17.63		
20	PI/2 BPSK	50	0	17.73	17.64	17.66	18.7	0.0
20	PI/2 BPSK	50	28	17.80	17.69	17.64		
20	PI/2 BPSK	50	56	17.64	17.58	17.63		
20	PI/2 BPSK	100	0	17.78	17.67	17.62	18.7	0.0
20	QPSK	1	1	17.80	17.78	17.73	18.7	0.0
20	QPSK	1	53	17.79	17.76	17.73		
20	QPSK	1	104	17.51	17.53	17.47		
20	QPSK	50	0	17.75	17.72	17.75	18.7	0.0
20	QPSK	50	28	17.61	17.64	17.59		
20	QPSK	50	56	17.70	17.68	17.70		
20	QPSK	100	0	17.66	17.66	17.67	18.7	0.0
20	16QAM	1	53	17.68	17.65	17.66	18.7	0.0
20	64QAM	1	53	17.72	17.69	17.67	18.7	0.0
20	256QAM	1	53	17.66	17.63	17.61	18.7	0.0
Channel				134100	136100	138100	Tune-up limit	MPR
Frequency (MHz)				670.5	680.5	690.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	17.71	17.68	17.66	18.7	0.0
Channel				133600	136100	138600	Tune-up limit	MPR
Frequency (MHz)				668	680.5	693	(dBm)	(dB)
10	PI/2 BPSK	1	26	17.69	17.66	17.63	18.7	0.0
Channel				133100	136100	139100	Tune-up limit	MPR
Frequency (MHz)				665.5	680.5	695.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	17.66	17.64	17.62	18.7	0.0

Reduced power level 2/3/4 for Head - ANT2

N2

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				372000	376000	380000	Tune-up limit	MPR
Frequency (MHz)				1860	1880	1900	(dBm)	(dB)
20	PI/2 BPSK	1	1	15.07	15.02	15.01	15.9	0.0
20	PI/2 BPSK	1	53	15.32	15.29	15.31		
20	PI/2 BPSK	1	104	14.96	14.94	14.92		
20	PI/2 BPSK	50	0	15.21	15.23	15.19	15.9	0.0
20	PI/2 BPSK	50	28	15.30	15.28	15.26		
20	PI/2 BPSK	50	56	15.25	15.23	15.21		
20	PI/2 BPSK	100	0	15.27	15.26	15.25	15.9	0.0
20	QPSK	1	1	15.12	15.08	15.05	15.9	0.0
20	QPSK	1	53	15.16	15.14	15.06		
20	QPSK	1	104	15.08	15.11	15.06		
20	QPSK	50	0	15.08	15.10	15.04	15.9	0.0
20	QPSK	50	28	15.12	15.06	15.08		
20	QPSK	50	56	15.06	15.08	15.09		
20	QPSK	100	0	15.11	15.13	15.10	15.9	0.0
20	16QAM	1	53	15.14	15.15	15.11	15.9	0.0
20	64QAM	1	53	15.23	15.23	15.20	15.9	0.0
20	256QAM	1	53	15.23	15.22	15.20	15.9	0.0
Channel				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	15.26	15.24	15.22	15.9	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	PI/2 BPSK	1	26	15.27	15.26	15.26	15.9	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	15.30	15.28	15.25	15.9	0.0

N25

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				372000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1860	1880	1905	(dBm)	(dB)
20	PI/2 BPSK	1	1	14.98	15.00	14.95	15.9	0.0
20	PI/2 BPSK	1	53	15.19	15.23	15.17		
20	PI/2 BPSK	1	104	15.14	15.18	15.11		
20	PI/2 BPSK	50	0	14.91	14.95	14.88	15.9	0.0
20	PI/2 BPSK	50	28	15.16	15.19	15.14		
20	PI/2 BPSK	50	56	15.00	15.02	14.98		
20	PI/2 BPSK	100	0	15.13	15.14	15.11	15.9	0.0
20	QPSK	1	1	14.91	14.93	14.90	15.9	0.0
20	QPSK	1	53	15.15	15.18	15.15		
20	QPSK	1	104	15.03	15.06	15.03		
20	QPSK	50	0	14.97	14.96	14.96	15.9	0.0
20	QPSK	50	28	15.11	15.13	15.06		
20	QPSK	50	56	15.06	15.05	15.00		
20	QPSK	100	0	14.88	14.90	14.84	15.9	0.0
20	16QAM	1	53	15.14	15.18	15.13	15.9	0.0
20	64QAM	1	53	15.00	15.02	15.01	15.9	0.0
20	256QAM	1	53	15.06	15.10	15.04	15.9	0.0
Channel				371500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1907.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	15.03	15.05	15.01	15.9	0.0
Channel				371000	376000	382000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1910	(dBm)	(dB)
10	PI/2 BPSK	1	26	15.04	15.07	15.03	15.9	0.0
Channel				370500	376000	382500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1912.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	15.06	15.07	15.06	15.9	0.0

N66

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				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	PI/2 BPSK	1	1	14.41	14.23	14.16	15.2	0.0
20	PI/2 BPSK	1	53	14.68	14.65	14.49		
20	PI/2 BPSK	1	104	14.32	14.13	14.35		
20	PI/2 BPSK	50	0	14.60	14.43	14.15	15.2	0.0
20	PI/2 BPSK	50	28	14.64	14.63	14.46		
20	PI/2 BPSK	50	56	14.56	14.42	14.16		
20	PI/2 BPSK	100	0	14.62	14.60	14.43	15.2	0.0
20	QPSK	1	1	14.40	14.36	14.33	15.2	0.0
20	QPSK	1	53	14.42	14.37	14.32		
20	QPSK	1	104	14.38	14.31	14.25		
20	QPSK	50	0	14.36	14.30	14.27	15.2	0.0
20	QPSK	50	28	14.38	14.32	14.29		
20	QPSK	50	56	14.34	14.28	14.25		
20	QPSK	100	0	14.36	14.30	14.23	15.2	0.0
20	16QAM	1	53	14.43	14.25	14.21	15.2	0.0
20	64QAM	1	53	14.47	14.38	14.14	15.2	0.0
20	256QAM	1	53	14.50	14.49	14.39	15.2	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	14.57	14.40	14.28	15.2	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	PI/2 BPSK	1	26	14.56	14.36	14.22	15.2	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	14.53	14.38	14.28	15.2	0.0

N41_FCC

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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	15.16	15.20	15.14	16.4	0.0
100	PI/2 BPSK	1	137	15.04	15.08	15.08		
100	PI/2 BPSK	1	271	15.04	15.05	15.04		
100	PI/2 BPSK	135	0	15.00	15.03	15.02	16.4	0.0
100	PI/2 BPSK	135	69	15.13	15.16	15.12		
100	PI/2 BPSK	135	138	14.92	14.95	14.91		
100	PI/2 BPSK	270	0	15.11	15.13	15.10	16.4	0.0
100	QPSK	1	1	14.98	15.11	15.03	16.4	0.0
100	QPSK	1	137	15.02	15.08	15.01		
100	QPSK	1	271	14.91	15.06	14.90		
100	QPSK	135	0	14.80	14.84	14.78	16.4	0.0
100	QPSK	135	69	14.84	14.82	14.82		
100	QPSK	135	138	14.83	14.86	14.82		
100	QPSK	270	0	14.80	14.83	14.78	16.4	0.0
100	16QAM	1	1	15.04	15.02	15.04	16.4	0.0
100	64QAM	1	1	15.06	15.08	15.04	16.4	0.0
100	256QAM	1	1	15.10	15.11	15.08	16.4	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	14.96	14.98	14.94	16.4	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	14.94	14.96	14.95	16.4	0.0
Channel				506200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	14.93	14.95	14.93	16.4	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	14.88	14.90	14.84	16.4	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	14.89	14.93	14.86	16.4	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	14.93	14.95	14.88	16.4	0.0

N41(HPUE)_FCC

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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	15.16	15.20	15.14	16.4	0.0
100	PI/2 BPSK	1	137	15.04	15.08	15.08		
100	PI/2 BPSK	1	271	15.04	15.05	15.04		
100	PI/2 BPSK	135	0	15.00	15.03	15.02	16.4	0.0
100	PI/2 BPSK	135	69	15.13	15.16	15.12		
100	PI/2 BPSK	135	138	14.92	14.95	14.91		
100	PI/2 BPSK	270	0	15.11	15.13	15.10	16.4	0.0
100	QPSK	1	1	14.98	15.11	15.03	16.4	0.0
100	QPSK	1	137	15.02	15.08	15.01		
100	QPSK	1	271	14.91	15.06	14.90		
100	QPSK	135	0	14.80	14.84	14.78	16.4	0.0
100	QPSK	135	69	14.84	14.82	14.82		
100	QPSK	135	138	14.83	14.86	14.82		
100	QPSK	270	0	14.80	14.83	14.78	16.4	0.0
100	16QAM	1	1	15.04	15.02	15.04	16.4	0.0
100	64QAM	1	1	15.06	15.08	15.04	14.9	1.5
100	256QAM	1	1	15.10	15.11	15.08	12.9	3.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	14.96	14.98	14.94	16.4	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	14.94	14.96	14.95	16.4	0.0
Channel				506200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	14.93	14.95	14.93	16.4	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	14.88	14.90	14.84	16.4	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	14.89	14.93	14.86	16.4	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	14.93	14.95	14.88	16.4	0.0

Reduced power for Hotspot on - ANT2

N2

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				372000	376000	380000	Tune-up limit	MPR
Frequency (MHz)				1860	1880	1900	(dBm)	(dB)
20	PI/2 BPSK	1	1	17.00	16.90	16.87	17.8	0.0
20	PI/2 BPSK	1	53	17.17	17.10	17.04		
20	PI/2 BPSK	1	104	16.95	16.82	16.80		
20	PI/2 BPSK	50	0	16.85	16.82	16.78	17.8	0.0
20	PI/2 BPSK	50	28	17.05	17.00	16.95		
20	PI/2 BPSK	50	56	16.82	16.80	16.75		
20	PI/2 BPSK	100	0	16.98	16.95	16.92	17.8	0.0
20	QPSK	1	1	17.11	16.98	16.82	17.8	0.0
20	QPSK	1	53	17.09	16.78	16.99		
20	QPSK	1	104	17.00	16.96	16.78		
20	QPSK	50	0	16.90	16.87	16.91	17.8	0.0
20	QPSK	50	28	17.07	16.78	16.89		
20	QPSK	50	56	16.73	16.82	16.90		
20	QPSK	100	0	16.91	17.07	16.91	17.8	0.0
20	16QAM	1	53	17.12	16.97	17.00	17.8	0.0
20	64QAM	1	53	16.97	16.80	16.94	17.8	0.0
20	256QAM	1	53	17.05	16.86	16.93	17.8	0.0
Channel				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	17.08	17.03	16.98	17.8	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	PI/2 BPSK	1	26	17.05	16.98	16.94	17.8	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	17.10	17.05	17.02	17.8	0.0

N25

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				372000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1860	1880	1905	(dBm)	(dB)
20	PI/2 BPSK	1	1	17.05	17.09	17.02	17.8	0.0
20	PI/2 BPSK	1	53	17.18	17.20	17.14		
20	PI/2 BPSK	1	104	16.98	17.01	16.95		
20	PI/2 BPSK	50	0	17.03	17.09	16.98	17.8	0.0
20	PI/2 BPSK	50	28	17.12	17.15	17.11		
20	PI/2 BPSK	50	56	16.96	17.00	16.92		
20	PI/2 BPSK	100	0	17.08	17.11	17.07	17.8	0.0
20	QPSK	1	1	16.84	17.04	17.00	17.8	0.0
20	QPSK	1	53	16.76	16.95	16.81		
20	QPSK	1	104	16.76	16.94	16.94		
20	QPSK	50	0	16.86	16.97	16.71	17.8	0.0
20	QPSK	50	28	17.07	17.10	16.97		
20	QPSK	50	56	16.92	16.74	16.79		
20	QPSK	100	0	17.02	16.89	16.90	17.8	0.0
20	16QAM	1	53	16.91	17.07	17.00	17.8	0.0
20	64QAM	1	53	16.98	16.81	16.65	17.8	0.0
20	256QAM	1	53	16.79	16.75	16.84	17.8	0.0
Channel				371500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1907.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	16.82	16.79	16.76	17.8	0.0
Channel				371000	376000	382000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1910	(dBm)	(dB)
10	PI/2 BPSK	1	26	16.78	17.05	16.94	17.8	0.0
Channel				370500	376000	382500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1912.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	16.85	16.87	16.79	17.8	0.0

N66

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				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	PI/2 BPSK	1	1	18.98	18.91	18.88	19.8	0.0
20	PI/2 BPSK	1	53	19.06	18.98	18.91		
20	PI/2 BPSK	1	104	18.91	18.83	18.80		
20	PI/2 BPSK	50	0	18.88	18.86	18.79	19.8	0.0
20	PI/2 BPSK	50	28	19.03	18.95	18.88		
20	PI/2 BPSK	50	56	18.92	18.89	18.85		
20	PI/2 BPSK	100	0	18.99	18.93	18.85	19.8	0.0
20	QPSK	1	1	18.72	18.76	18.60	19.8	0.0
20	QPSK	1	53	18.65	18.68	18.55		
20	QPSK	1	104	18.75	18.74	18.56		
20	QPSK	50	0	18.60	18.74	18.50	19.8	0.0
20	QPSK	50	28	18.84	18.75	18.63		
20	QPSK	50	56	18.85	18.78	18.65		
20	QPSK	100	0	18.75	18.69	18.65	19.8	0.0
20	16QAM	1	53	18.74	18.65	16.80	19.8	0.0
20	64QAM	1	53	18.91	18.81	18.70	19.8	0.0
20	256QAM	1	53	18.71	18.86	16.67	19.8	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	18.62	18.67	16.74	19.8	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	PI/2 BPSK	1	26	18.83	18.78	16.57	19.8	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	18.73	18.63	16.52	19.8	0.0

N41_FCC								
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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	17.58	17.60	17.55	18.5	0.0
100	PI/2 BPSK	1	137	17.45	17.46	17.40		
100	PI/2 BPSK	1	271	17.40	17.44	17.38		
100	PI/2 BPSK	135	0	17.43	17.46	17.35	18.5	0.0
100	PI/2 BPSK	135	69	17.55	17.57	17.53		
100	PI/2 BPSK	135	138	17.48	17.51	17.42		
100	PI/2 BPSK	270	0	17.52	17.55	17.50	18.5	0.0
100	QPSK	1	1	17.52	17.53	17.45	18.5	0.0
100	QPSK	1	137	17.16	17.25	17.14		
100	QPSK	1	271	17.30	17.40	17.20		
100	QPSK	135	0	17.15	17.34	17.26	18.5	0.0
100	QPSK	135	69	17.43	17.45	17.33		
100	QPSK	135	138	17.30	17.50	17.26		
100	QPSK	270	0	17.29	17.47	17.28	18.5	0.0
100	16QAM	1	1	17.49	17.48	17.28	18.5	0.0
100	64QAM	1	1	17.41	17.44	17.30	18.5	0.0
100	256QAM	1	1	17.50	17.46	17.24	18.5	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	17.38	17.25	17.46	18.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	17.28	17.44	17.28	18.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	17.19	17.19	17.23	18.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	17.28	17.48	17.38	18.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	17.32	17.39	17.35	18.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	17.31	17.30	17.33	18.5	0.0

N41(HPUE)_FCC								
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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	17.58	17.60	17.55	18.5	0.0
100	PI/2 BPSK	1	137	17.45	17.46	17.40		
100	PI/2 BPSK	1	271	17.40	17.44	17.38		
100	PI/2 BPSK	135	0	17.43	17.46	17.35	18.5	0.0
100	PI/2 BPSK	135	69	17.55	17.57	17.53		
100	PI/2 BPSK	135	138	17.48	17.51	17.42		
100	PI/2 BPSK	270	0	17.52	17.55	17.50	18.5	0.0
100	QPSK	1	1	17.52	17.53	17.45	18.5	0.0
100	QPSK	1	137	17.16	17.25	17.14		
100	QPSK	1	271	17.30	17.40	17.20		
100	QPSK	135	0	17.15	17.34	17.26	18.5	0.0
100	QPSK	135	69	17.43	17.45	17.33		
100	QPSK	135	138	17.30	17.50	17.26		
100	QPSK	270	0	17.29	17.47	17.28	18.5	0.0
100	16QAM	1	1	17.49	17.48	17.28	18.5	0.0
100	64QAM	1	1	17.41	17.44	17.30	18.5	0.0
100	256QAM	1	1	17.50	17.46	17.24	18.5	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	17.38	17.25	17.46	18.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	17.28	17.44	17.28	18.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	17.19	17.19	17.23	18.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	17.28	17.48	17.38	18.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	17.32	17.39	17.35	18.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	17.31	17.30	17.33	18.5	0.0

Full Power for ANT1

N5								
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				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.17	23.13	23.09	23.8	0.0
20	PI/2 BPSK	1	53	23.37	23.31	23.24		
20	PI/2 BPSK	1	104	23.15	23.11	23.03		
20	PI/2 BPSK	50	0	22.57	22.53	22.56	23.8	0.0
20	PI/2 BPSK	50	28	23.16	23.07	23.02		
20	PI/2 BPSK	50	56	22.56	22.54	22.55		
20	PI/2 BPSK	100	0	20.56	20.53	20.51	23.3	0.5
20	QPSK	1	1	23.02	23.01	23.05	23.8	0.0
20	QPSK	1	53	23.01	23.03	23.07		
20	QPSK	1	104	22.97	22.98	22.98		
20	QPSK	50	0	22.07	22.08	22.08	23.8	0.0
20	QPSK	50	28	23.10	23.03	23.02		
20	QPSK	50	56	22.02	22.04	22.02		
20	QPSK	100	0	22.09	22.01	22.00	22.8	1.0
20	16QAM	1	53	22.21	22.01	22.05	22.8	1.0
20	64QAM	1	53	20.76	21.12	21.01	21.8	2.0
20	256QAM	1	53	18.71	18.88	18.89	19.3	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	PI/2 BPSK	1	40	23.12	23.12	23.05	23.8	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	PI/2 BPSK	1	26	23.16	23.06	23.12	23.8	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	PI/2 BPSK	1	13	23.08	23.04	23.07	23.8	0.0

N71								
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				134600	136100	137600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	22.80	22.73	22.74	23.8	0.0
20	PI/2 BPSK	1	53	22.97	22.86	22.82		
20	PI/2 BPSK	1	104	22.73	22.62	22.53		
20	PI/2 BPSK	50	0	22.33	22.23	22.19	23.8	0.0
20	PI/2 BPSK	50	28	22.73	22.69	22.65		
20	PI/2 BPSK	50	56	22.33	22.13	22.03		
20	PI/2 BPSK	100	0	22.28	22.21	22.17	23.3	0.5
20	QPSK	1	1	22.80	22.83	22.76	23.8	0.0
20	QPSK	1	53	22.72	22.75	22.62		
20	QPSK	1	104	22.61	22.63	22.44		
20	QPSK	50	0	21.67	21.71	21.67	23.8	0.0
20	QPSK	50	28	22.58	22.67	22.62		
20	QPSK	50	56	21.55	21.57	21.53		
20	QPSK	100	0	21.68	21.70	21.67	22.8	1.0
20	16QAM	1	53	21.65	21.50	21.47	22.8	1.0
20	64QAM	1	53	20.61	20.61	20.47	21.8	2.0
20	256QAM	1	53	18.58	18.62	18.47	19.3	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	PI/2 BPSK	1	40	22.88	22.72	22.69	23.8	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	PI/2 BPSK	1	26	22.74	22.65	22.68	23.8	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	PI/2 BPSK	1	13	22.79	22.63	22.74	23.8	0.0

Full Power for ANT3

N2

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				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	22.95	22.85	22.81	23.8	0.0
20	PI/2 BPSK	1	53	23.05	22.88	22.86		
20	PI/2 BPSK	1	104	22.87	22.83	22.89		
20	PI/2 BPSK	50	0	22.37	22.28	22.20	23.8	0.0
20	PI/2 BPSK	50	28	22.84	22.78	22.74		
20	PI/2 BPSK	50	56	22.35	22.29	22.21		
20	PI/2 BPSK	100	0	22.38	22.31	22.37	23.3	0.5
20	QPSK	1	1	22.87	22.89	22.79	23.8	0.0
20	QPSK	1	53	23.01	22.94	22.89		
20	QPSK	1	104	22.85	22.80	22.75		
20	QPSK	50	0	21.83	21.82	21.71	23.8	0.0
20	QPSK	50	28	22.86	22.83	22.74		
20	QPSK	50	56	21.87	21.82	21.76		
20	QPSK	100	0	21.80	21.78	21.63	22.8	1.0
20	16QAM	1	53	22.34	22.58	22.32	22.8	1.0
20	64QAM	1	53	20.90	20.86	20.78	21.8	2.0
20	256QAM	1	53	18.65	18.78	18.61	19.8	4.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	PI/2 BPSK	1	40	22.92	22.78	22.85	23.8	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	PI/2 BPSK	1	26	22.89	22.88	22.91	23.8	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	PI/2 BPSK	1	13	22.88	22.79	22.84	23.8	0.0

N25

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				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1880	1880	1905		
20	PI/2 BPSK	1	1	22.85	22.92	22.81	23.8	0.0
20	PI/2 BPSK	1	53	22.89	22.98	22.86		
20	PI/2 BPSK	1	104	22.89	22.90	22.69		
20	PI/2 BPSK	50	0	22.36	22.38	22.20	23.8	0.0
20	PI/2 BPSK	50	28	22.83	22.87	22.74		
20	PI/2 BPSK	50	56	22.35	22.36	22.21		
20	PI/2 BPSK	100	0	22.33	22.35	22.32	23.3	0.5
20	QPSK	1	1	22.01	22.89	22.78	23.8	0.0
20	QPSK	1	53	22.46	22.94	22.85		
20	QPSK	1	104	22.93	22.80	22.58		
20	QPSK	50	0	21.80	21.82	21.64	23.8	0.0
20	QPSK	50	28	22.87	22.83	22.70		
20	QPSK	50	56	21.86	21.82	21.61		
20	QPSK	100	0	21.84	21.87	21.63	22.8	1.0
20	16QAM	1	53	22.34	22.64	22.40	22.8	1.0
20	64QAM	1	53	20.91	20.78	20.80	21.8	2.0
20	256QAM	1	53	18.66	18.84	18.55	19.8	4.0
Channel				371500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	PI/2 BPSK	1	40	22.93	22.86	22.77	23.8	0.0
Channel				371000	376000	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	PI/2 BPSK	1	26	22.89	22.89	22.80	23.8	0.0
Channel				370500	376000	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	PI/2 BPSK	1	13	22.89	22.81	22.78	23.8	0.0

N66

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				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	23.21	23.15	22.93	23.8	0.0
20	PI/2 BPSK	1	53	23.28	22.96	22.79		
20	PI/2 BPSK	1	104	23.17	22.93	22.78		
20	PI/2 BPSK	50	0	22.66	22.49	22.31	23.8	0.0
20	PI/2 BPSK	50	28	23.12	22.93	22.73		
20	PI/2 BPSK	50	56	22.64	22.46	22.24		
20	PI/2 BPSK	100	0	22.62	22.42	22.30	23.3	0.5
20	QPSK	1	1	22.64	23.06	22.87	23.8	0.0
20	QPSK	1	53	23.02	22.96	22.83		
20	QPSK	1	104	22.64	22.70	22.78		
20	QPSK	50	0	22.18	21.98	21.74	23.8	0.0
20	QPSK	50	28	23.16	22.94	22.71		
20	QPSK	50	56	22.05	21.85	21.70		
20	QPSK	100	0	22.07	21.91	21.76	22.8	1.0
20	16QAM	1	53	22.37	22.74	22.50	22.8	1.0
20	64QAM	1	53	20.95	20.88	20.79	21.8	2.0
20	256QAM	1	53	18.75	18.87	18.50	19.8	4.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI/2 BPSK	1	40	23.18	23.14	22.96	23.8	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	26	23.14	23.18	22.83	23.8	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	13	23.10	23.05	22.76	23.8	0.0

N41_FCC								
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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.07	23.12	23.05	24.0	0.0
100	PI/2 BPSK	1	137	23.05	23.03	23.00		
100	PI/2 BPSK	1	271	22.97	23.04	22.99		
100	PI/2 BPSK	135	0	22.96	23.02	22.98	24.0	0.0
100	PI/2 BPSK	135	69	23.03	23.07	23.01		
100	PI/2 BPSK	135	138	22.88	22.94	22.96		
100	PI/2 BPSK	270	0	23.01	23.04	22.98	24.0	0.0
100	QPSK	1	1	23.02	23.10	23.05	24.0	0.0
100	QPSK	1	137	22.97	23.06	22.85		
100	QPSK	1	271	22.85	23.05	22.84		
100	QPSK	135	0	22.91	23.00	22.88	24.0	0.0
100	QPSK	135	69	22.98	23.02	22.91		
100	QPSK	135	138	22.84	22.76	22.80		
100	QPSK	270	0	22.80	22.88	22.80	24.0	0.0
100	16QAM	1	1	23.03	23.09	23.01	24.0	0.0
100	64QAM	1	1	22.32	22.57	22.33	23.0	1.0
100	256QAM	1	1	20.26	20.45	20.32	21.0	3.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	23.05	23.10	23.03	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	23.04	23.05	23.04	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	23.02	22.94	23.00	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	22.99	22.91	22.94	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	23.03	23.05	23.00	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	23.01	23.03	22.94	24.0	0.0

N41(HPUE)_FCC								
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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	25.07	25.12	25.05	26.0	0.0
100	PI/2 BPSK	1	137	24.99	25.01	24.90		
100	PI/2 BPSK	1	271	24.88	24.90	24.49		
100	PI/2 BPSK	135	0	24.56	24.57	24.46	26.0	0.0
100	PI/2 BPSK	135	69	25.03	25.08	24.98		
100	PI/2 BPSK	135	138	24.41	24.44	24.40		
100	PI/2 BPSK	270	0	24.47	24.53	24.44	25.5	0.5
100	QPSK	1	1	24.25	24.61	24.32	26.0	0.0
100	QPSK	1	137	24.64	24.70	24.81		
100	QPSK	1	271	23.83	24.31	23.70		
100	QPSK	135	0	23.90	23.91	23.67	26.0	0.0
100	QPSK	135	69	24.92	24.93	24.88		
100	QPSK	135	138	23.55	23.66	23.88		
100	QPSK	270	0	23.48	23.64	23.73	25.0	1.0
100	16QAM	1	1	22.93	23.27	23.10	25.0	1.0
100	64QAM	1	1	21.87	22.39	21.91	23.5	2.5
100	256QAM	1	1	20.12	20.59	20.21	21.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	25.06	25.07	25.02	26.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	25.10	25.04	25.03	26.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	25.04	25.02	25.04	26.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	25.03	25.01	24.99	26.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	25.02	25.11	25.04	26.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	25.01	25.01	25.02	26.0	0.0

Reduced power for Hotspot on - ANT3

N2

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				372000	376000	380000	Tune-up limit	MPR
Frequency (MHz)				1860	1880	1900	(dBm)	(dB)
20	PI/2 BPSK	1	1	20.95	20.86	20.82	21.8	0.0
20	PI/2 BPSK	1	53	21.00	20.91	20.85		
20	PI/2 BPSK	1	104	20.88	20.82	20.78		
20	PI/2 BPSK	50	0	20.82	20.80	20.75	21.8	0.0
20	PI/2 BPSK	50	28	20.97	20.88	20.83		
20	PI/2 BPSK	50	56	20.85	20.82	20.79		
20	PI/2 BPSK	100	0	20.94	20.85	20.80	21.8	0.0
20	QPSK	1	1	20.86	20.68	20.58	21.8	0.0
20	QPSK	1	53	20.91	20.74	20.74		
20	QPSK	1	104	20.66	20.67	20.75		
20	QPSK	50	0	20.58	20.52	20.68	21.8	0.0
20	QPSK	50	28	20.77	20.85	20.70		
20	QPSK	50	56	20.83	20.69	20.58		
20	QPSK	100	0	20.65	20.83	20.75	21.8	0.0
20	16QAM	1	53	20.82	20.89	20.85	21.8	0.0
20	64QAM	1	53	20.40	20.37	20.32	21.8	0.0
20	256QAM	1	53	20.90	18.85	20.80	21.8	0.0
Channel				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	20.90	20.74	20.62	21.8	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	PI/2 BPSK	1	26	20.95	20.68	20.72	21.8	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	20.89	20.80	20.71	21.8	0.0

N25

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				372000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1860	1880	1905	(dBm)	(dB)
20	PI/2 BPSK	1	1	20.38	20.43	20.35	21.3	0.0
20	PI/2 BPSK	1	53	20.41	20.46	20.40		
20	PI/2 BPSK	1	104	20.35	20.37	20.33		
20	PI/2 BPSK	50	0	20.35	20.38	20.31	21.3	0.0
20	PI/2 BPSK	50	28	20.39	20.43	20.37		
20	PI/2 BPSK	50	56	20.30	20.36	20.25		
20	PI/2 BPSK	100	0	20.36	20.40	20.34	21.3	0.0
20	QPSK	1	1	20.38	20.17	20.18	21.3	0.0
20	QPSK	1	53	20.34	20.17	20.26		
20	QPSK	1	104	20.22	20.26	20.29		
20	QPSK	50	0	20.28	20.34	20.02	21.3	0.0
20	QPSK	50	28	20.10	20.31	20.12		
20	QPSK	50	56	20.09	20.19	19.95		
20	QPSK	100	0	20.35	20.18	20.20	21.3	0.0
20	16QAM	1	53	20.35	20.40	20.31	21.3	0.0
20	64QAM	1	53	20.33	20.42	20.28	21.3	0.0
20	256QAM	1	53	18.80	18.88	20.77	21.3	0.0
Channel				371500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1907.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	20.36	20.40	20.08	21.3	0.0
Channel				371000	376000	382000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1910	(dBm)	(dB)
10	PI/2 BPSK	1	26	20.35	20.32	20.16	21.3	0.0
Channel				370500	376000	382500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1912.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	20.25	20.24	20.25	21.3	0.0

N66

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				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	PI/2 BPSK	1	1	20.15	21.11	20.95	21.8	0.0
20	PI/2 BPSK	1	53	21.20	21.16	20.98		
20	PI/2 BPSK	1	104	20.12	21.07	20.93		
20	PI/2 BPSK	50	0	20.14	21.13	20.90	21.8	0.0
20	PI/2 BPSK	50	28	21.18	21.15	20.95		
20	PI/2 BPSK	50	56	20.05	21.01	20.89		
20	PI/2 BPSK	100	0	21.15	21.13	20.92	21.8	0.0
20	QPSK	1	1	20.05	20.81	20.72	21.8	0.0
20	QPSK	1	53	21.10	21.05	20.85		
20	QPSK	1	104	20.06	20.85	20.87		
20	QPSK	50	0	19.94	20.85	20.82	21.8	0.0
20	QPSK	50	28	21.17	21.06	20.84		
20	QPSK	50	56	19.88	20.72	20.74		
20	QPSK	100	0	21.15	20.84	20.84	21.8	0.0
20	16QAM	1	53	21.10	21.00	20.95	21.8	0.0
20	64QAM	1	53	20.72	20.64	20.00	21.8	0.0
20	256QAM	1	53	18.65	18.58	18.53	21.8	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	20.12	20.88	20.78	21.8	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	PI/2 BPSK	1	26	20.08	20.83	20.68	21.8	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	21.05	21.07	20.73	21.8	0.0

N41_FCC

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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.55	20.62	20.61	21.4	0.0
100	PI/2 BPSK	1	137	20.25	20.50	20.43		
100	PI/2 BPSK	1	271	20.29	20.49	20.35		
100	PI/2 BPSK	135	0	20.48	20.51	20.51	21.4	0.0
100	PI/2 BPSK	135	69	20.52	20.59	20.58		
100	PI/2 BPSK	135	138	20.38	20.50	20.48		
100	PI/2 BPSK	270	0	20.50	20.56	20.54	21.4	0.0
100	QPSK	1	1	20.27	20.59	20.34	21.4	0.0
100	QPSK	1	137	19.98	20.32	20.25		
100	QPSK	1	271	20.21	20.32	20.06		
100	QPSK	135	0	20.32	20.47	20.36	21.4	0.0
100	QPSK	135	69	20.43	20.38	20.41		
100	QPSK	135	138	20.32	20.47	20.26		
100	QPSK	270	0	20.18	20.43	20.02	21.4	0.0
100	16QAM	1	1	20.26	20.42	20.35	21.4	0.0
100	64QAM	1	1	20.38	20.29	20.53	21.4	0.0
100	256QAM	1	1	20.11	20.20	20.25	21.4	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	20.41	20.42	20.47	21.4	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	20.38	20.38	20.56	21.4	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	20.32	20.40	20.33	21.4	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	20.37	20.42	20.57	21.4	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	20.55	20.58	20.46	21.4	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	20.40	20.42	20.55	21.4	0.0

N41(HPUE)_FCC

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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.55	20.62	20.61	21.4	0.0
100	PI/2 BPSK	1	137	20.25	20.50	20.43		
100	PI/2 BPSK	1	271	20.29	20.49	20.35		
100	PI/2 BPSK	135	0	20.48	20.51	20.51	21.4	0.0
100	PI/2 BPSK	135	69	20.52	20.59	20.58		
100	PI/2 BPSK	135	138	20.38	20.50	20.48		
100	PI/2 BPSK	270	0	20.50	20.56	20.54	21.4	0.0
100	QPSK	1	1	20.27	20.59	20.34	21.4	0.0
100	QPSK	1	137	19.98	20.32	20.25		
100	QPSK	1	271	20.21	20.32	20.06		
100	QPSK	135	0	20.32	20.47	20.36	21.4	0.0
100	QPSK	135	69	20.43	20.38	20.41		
100	QPSK	135	138	20.32	20.47	20.26		
100	QPSK	270	0	20.18	20.43	20.02	21.4	0.0
100	16QAM	1	1	20.26	20.42	20.35	21.4	0.0
100	64QAM	1	1	20.38	20.29	20.53	21.4	0.0
100	256QAM	1	1	20.11	20.20	20.25	21.4	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	20.41	20.42	20.47	21.4	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	20.38	20.38	20.56	21.4	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	20.32	20.40	20.33	21.4	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	20.37	20.42	20.57	21.4	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	20.55	20.58	20.46	21.4	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	20.40	20.42	20.55	21.4	0.0

Reduced power for Sensor on - ANT3

N2

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				372000	376000	380000	Tune-up limit	MPR
Frequency (MHz)				1860	1880	1900	(dBm)	(dB)
20	PI/2 BPSK	1	1	22.05	21.98	21.93	22.9	0.0
20	PI/2 BPSK	1	53	22.10	22.08	22.02		
20	PI/2 BPSK	1	104	22.02	21.93	21.88		
20	PI/2 BPSK	50	0	22.06	21.92	21.86	22.9	0.0
20	PI/2 BPSK	50	28	22.08	22.05	21.99		
20	PI/2 BPSK	50	56	22.00	21.93	21.84		
20	PI/2 BPSK	100	0	22.05	22.03	21.96	22.9	0.0
20	QPSK	1	1	21.94	21.74	21.88	22.9	0.0
20	QPSK	1	53	22.08	22.09	21.80		
20	QPSK	1	104	21.81	21.92	21.82		
20	QPSK	50	0	22.08	21.78	21.84	22.9	0.0
20	QPSK	50	28	22.05	22.06	21.82		
20	QPSK	50	56	21.79	21.76	21.78		
20	QPSK	100	0	21.96	22.03	21.90	22.9	0.0
20	16QAM	1	53	22.05	22.00	21.94	22.9	0.0
20	64QAM	1	53	20.71	20.60	21.53	22.9	0.0
20	256QAM	1	53	19.02	18.95	21.90	22.9	0.0
Channel				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	22.02	21.93	21.73	22.9	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	PI/2 BPSK	1	26	21.92	21.78	21.77	22.9	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	22.01	21.99	21.87	22.9	0.0

N25

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				372000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1860	1880	1905	(dBm)	(dB)
20	PI/2 BPSK	1	1	21.90	21.92	21.99	22.9	0.0
20	PI/2 BPSK	1	53	22.00	22.05	22.02		
20	PI/2 BPSK	1	104	21.82	21.84	21.83		
20	PI/2 BPSK	50	0	21.80	21.91	21.83	22.9	0.0
20	PI/2 BPSK	50	28	21.98	22.03	22.00		
20	PI/2 BPSK	50	56	21.83	21.94	21.86		
20	PI/2 BPSK	100	0	21.94	22.00	21.96	22.9	0.0
20	QPSK	1	1	21.75	21.65	21.81	22.9	0.0
20	QPSK	1	53	21.71	21.93	21.94		
20	QPSK	1	104	21.73	21.58	21.64		
20	QPSK	50	0	21.79	21.65	21.53	22.9	0.0
20	QPSK	50	28	21.82	21.79	21.94		
20	QPSK	50	56	21.83	21.91	21.58		
20	QPSK	100	0	21.68	21.79	21.96	22.9	0.0
20	16QAM	1	53	21.61	21.77	21.65	22.9	0.0
20	64QAM	1	53	21.50	21.74	21.81	22.9	0.0
20	256QAM	1	53	21.66	21.85	21.53	22.9	0.0
Channel				371500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1907.5	(dBm)	(dB)
15	PI/2 BPSK	1	40	21.62	21.89	21.73	22.9	0.0
Channel				371000	376000	382000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1910	(dBm)	(dB)
10	PI/2 BPSK	1	26	21.66	21.61	21.79	22.9	0.0
Channel				370500	376000	382500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1912.5	(dBm)	(dB)
5	PI/2 BPSK	1	13	21.51	21.75	21.64	22.9	0.0

N41(HPUE)_FCC								
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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.76	19.88	19.81	20.8	0.0
100	PI/2 BPSK	1	137	19.65	19.83	19.80		
100	PI/2 BPSK	1	271	19.60	19.79	19.78		
100	PI/2 BPSK	135	0	19.60	19.73	19.65	20.8	0.0
100	PI/2 BPSK	135	69	19.73	19.85	19.78		
100	PI/2 BPSK	135	138	19.61	19.76	19.58		
100	PI/2 BPSK	270	0	19.71	19.82	19.75	20.8	0.0
100	QPSK	1	1	19.76	19.73	19.60	20.8	0.0
100	QPSK	1	137	19.41	19.67	19.70		
100	QPSK	1	271	19.41	19.84	19.61		
100	QPSK	135	0	19.63	19.75	19.58	20.8	0.0
100	QPSK	135	69	19.78	19.63	19.63		
100	QPSK	135	138	19.65	19.67	19.52		
100	QPSK	270	0	19.76	19.71	19.71	20.8	0.0
100	16QAM	1	1	19.61	19.76	19.66	20.8	0.0
100	64QAM	1	1	19.74	19.71	19.74	20.8	0.0
100	256QAM	1	1	19.61	19.77	19.76	20.8	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	19.39	19.55	19.71	20.8	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	19.35	19.57	19.77	20.8	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	19.38	19.55	19.55	20.8	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	19.55	19.63	19.54	20.8	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	19.60	19.83	19.62	20.8	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	19.47	19.79	19.63	20.8	0.0

Bluetooth/ANT+ Full Power

Bluetooth BR/EDR

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	8.70	8.50	8.40	8.90	8.60	8.50	8.80	8.60	8.50	**10.4**
	CH 39	2441	**9.60**	9.40	9.30	**9.80**	9.60	9.50	**9.80**	9.60	9.50	**11.3**
	CH 78	2480	8.70	8.50	8.40	8.90	8.70	8.60	8.90	8.70	8.60	**10.4**

Bluetooth LE 4.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	Tune-up Limit
LE	CH 00	2402	7.80	**9.80**
	CH 19	2440	8.80	**10.80**
	CH 39	2480	7.90	**9.90**

Bluetooth LE 5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			2Mbps	Tune-up Limit
LE	CH 00	2402	8.00	**10.00**
	CH 19	2440	9.00	**11.00**
	CH 39	2480	8.10	**10.10**

ANT+

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	Tune-up Limit
ANT+	CH 02	2402	-12.40	**-10.00**
	CH 41	2441	-11.90	**-10.00**
	CH 80	2480	-13.20	**-10.00**

Bluetooth Reduced Power

Bluetooth BR/EDR

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	6.40	6.30	6.30	4.50	4.30	4.30	4.40	4.30	4.30	**8.3**
	CH 39	2441	**6.80**	6.70	6.70	**4.90**	4.80	4.80	**4.90**	4.80	4.70	**8.7**
	CH 78	2480	5.40	5.30	5.30	3.50	3.40	3.40	3.50	3.40	3.40	**7.3**

Bluetooth LE 4.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	Tune-up Limit
LE	CH 00	2402	4.50	**6.50**
	CH 19	2440	5.10	**7.10**
	CH 39	2480	3.60	**5.60**

Bluetooth LE 5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			2Mbps	Tune-up Limit
LE	CH 00	2402	4.60	**6.60**
	CH 19	2440	5.20	**7.20**
	CH 39	2480	3.70	**5.70**

WLAN Full power

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	22.34	24.34	98.35
		6	2437	22.31	24.31	
		11	2462	22.17	24.17	
	802.11g 6Mbps	1	2412	20.63	22.63	99.31
		6	2437	20.42	22.42	
		11	2462	20.37	22.37	
	802.11n-HT20 MCS0	1	2412	20.23	22.23	100.00
		6	2437	20.16	22.16	
		11	2462	20.02	22.02	
	802.11n-HT40 MCS0	3	2422	19.68	21.68	100.00
		6	2437	19.66	21.66	
		9	2452	19.53	21.53	
	802.11ax-HE20 MCS0	1	2412	20.27	22.27	100.00
		6	2437	20.21	22.21	
		11	2462	20.12	22.12	
	802.11ax-HE40 MCS0	3	2422	20.34	22.34	100.00
		6	2437	20.36	22.36	
		9	2452	20.27	22.27	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	20.72	22.72	98.63
		40	5200	21.02	23.02	
		44	5220	20.73	22.73	
		48	5240	20.64	22.64	
	802.11n-HT20 MCS0	36	5180	20.41	22.41	100.00
		40	5200	20.71	22.71	
		44	5220	20.44	22.44	
		48	5240	20.34	22.34	
	802.11n-HT40 MCS0	38	5190	20.87	22.87	100.00
		46	5230	20.89	22.89	
	802.11ac-VHT20 MCS0	36	5180	20.40	22.40	100.00
		40	5200	20.70	22.70	
		44	5220	20.42	22.42	
		48	5240	20.33	22.33	
	802.11ac-VHT40 MCS0	38	5190	20.85	22.85	100.00
		46	5230	20.86	22.86	
	802.11ac-VHT80 MCS0	42	5210	19.99	21.99	100.00
	802.11ax-HE20 MCS0	36	5180	20.44	22.44	100.00
		40	5200	20.42	22.42	
		44	5220	20.45	22.45	
		48	5240	20.40	22.40	
	802.11ax-HE40 MCS0	38	5190	19.53	21.53	100.00
		46	5230	20.54	22.54	
	802.11ax-HE80 MCS0	42	5210	18.77	20.77	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	20.74	22.74	98.63
		56	5280	21.03	23.03	
		60	5300	20.60	22.60	
		64	5320	20.54	22.54	
	802.11n-HT20 MCS0	52	5260	20.45	22.45	100.00
		56	5280	20.60	22.60	
		60	5300	20.30	22.30	
		64	5320	20.24	22.24	
	802.11n-HT40 MCS0	54	5270	20.90	22.90	100.00
		62	5310	19.74	21.74	
	802.11ac-VHT20 MCS0	52	5260	20.43	22.43	100.00
		56	5280	20.58	22.58	
		60	5300	20.12	22.12	
		64	5320	20.21	22.21	
	802.11ac-VHT40 MCS0	54	5270	20.87	22.87	100.00
		62	5310	19.67	21.67	
	802.11ac-VHT80 MCS0	58	5290	19.01	21.01	100.00
	802.11ax-HE20 MCS0	52	5260	20.46	22.46	100.00
		56	5280	20.37	22.37	
		60	5300	20.35	22.35	
		64	5320	20.30	22.30	
	802.11ax-HE40 MCS0	54	5270	20.55	22.55	100.00
		62	5310	20.38	22.38	
	802.11ax-HE80 MCS0	58	5290	19.80	21.80	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	20.63	22.63	98.63
		116	5580	20.38	22.38	
		124	5620	20.60	22.60	
		132	5660	20.64	22.64	
		140	5700	20.35	22.35	
		144	5720	20.36	22.36	
	802.11n-HT20 MCS0	100	5500	20.33	22.33	100.00
		116	5580	20.09	22.09	
		124	5620	20.60	22.60	
		132	5660	20.63	22.63	
		140	5700	20.05	22.05	
		144	5720	20.03	22.03	
	802.11n-HT40 MCS0	102	5510	20.98	22.98	100.00
		110	5550	20.54	22.54	
		126	5630	20.97	22.97	
		134	5670	20.63	22.63	
		142	5710	20.50	22.50	
	802.11ac-VHT20 MCS0	100	5500	20.30	22.30	100.00
		116	5580	20.06	22.06	
		124	5620	20.58	22.58	
		132	5660	20.60	22.60	
		140	5700	20.03	22.03	
		144	5720	20.01	22.01	
	802.11ac-VHT40 MCS0	102	5510	20.77	22.77	100.00
		110	5550	20.53	22.53	
		126	5630	20.75	22.75	
		134	5670	20.61	22.61	
		142	5710	20.48	22.48	
	802.11ac-VHT80 MCS0	106	5530	19.65	21.65	100.00
		122	5610	19.79	21.79	
		138	5690	19.59	21.59	
	802.11ax-HE20 MCS0	100	5500	20.38	22.38	100.00
		116	5580	20.13	22.13	
		124	5620	20.10	22.10	
		132	5660	20.11	22.11	
		140	5700	20.12	22.12	
		144	5720	20.13	22.13	
	802.11ax-HE40 MCS0	102	5510	20.42	22.42	100.00
		110	5550	20.17	22.17	
		126	5630	20.16	22.16	
		134	5670	20.18	22.18	
		142	5710	20.18	22.18	
	802.11ax-HE80 MCS0	106	5530	19.51	21.51	100.00
		122	5610	19.66	21.66	
		138	5690	19.46	21.46	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.44	22.44	98.63
		157	5785	20.45	22.45	
		165	5825	20.36	22.36	
	802.11n-HT20 MCS0	149	5745	20.13	22.13	100.00
		157	5785	20.14	22.14	
		165	5825	20.06	22.06	
	802.11n-HT40 MCS0	151	5755	20.69	22.69	100.00
		159	5795	20.61	22.61	
	802.11ac-VHT20 MCS0	149	5745	20.12	22.12	100.00
		157	5785	20.13	22.13	
		165	5825	20.04	22.04	
	802.11ac-VHT40 MCS0	151	5755	20.67	22.67	100.00
		159	5795	20.59	22.59	
	802.11ac-VHT80 MCS0	155	5775	19.69	21.69	100.00
	802.11ax-HE20 MCS0	149	5745	20.12	22.12	100.00
		157	5785	20.11	22.11	
		165	5825	20.04	22.04	
	802.11ax-HE40 MCS0	151	5755	20.24	22.24	100.00
		159	5795	20.17	22.17	
	802.11ax-HE80 MCS0	155	5775	19.46	21.46	100.00

Reduced Power Level 1 for Head

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	17.34	19.34	98.35
		6	2437	17.31	19.31	
		11	2462	17.17	19.17	
	802.11g 6Mbps	1	2412	14.63	16.63	99.31
		6	2437	14.42	16.42	
		11	2462	14.37	16.37	
	802.11n-HT20 MCS0	1	2412	14.23	16.23	100.00
		6	2437	14.16	16.16	
		11	2462	14.02	16.02	
	802.11n-HT40 MCS0	3	2422	13.68	15.68	100.00
		6	2437	13.66	15.66	
		9	2452	13.53	15.53	
	802.11ax-HE20 MCS0	1	2412	14.27	16.27	100.00
		6	2437	14.21	16.21	
		11	2462	14.12	16.12	
	802.11ax-HE40 MCS0	3	2422	14.34	16.34	100.00
		6	2437	14.36	16.36	
		9	2452	14.27	16.27	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	15.72	17.72	98.63
		40	5200	16.02	18.02	
		44	5220	15.73	17.73	
		48	5240	15.64	17.64	
	802.11n-HT20 MCS0	36	5180	15.41	17.41	100.00
		40	5200	15.71	17.71	
		44	5220	15.44	17.44	
		48	5240	15.34	17.34	
	802.11n-HT40 MCS0	38	5190	15.87	17.87	100.00
		46	5230	15.89	17.89	
	802.11ac-VHT20 MCS0	36	5180	15.40	17.40	100.00
		40	5200	15.70	17.70	
		44	5220	15.42	17.42	
		48	5240	15.33	17.33	
	802.11ac-VHT40 MCS0	38	5190	15.85	17.85	100.00
		46	5230	15.86	17.86	
	802.11ac-VHT80 MCS0	42	5210	14.99	16.99	100.00
	802.11ax-HE20 MCS0	36	5180	15.44	17.44	100.00
		40	5200	15.42	17.42	
		44	5220	15.45	17.45	
		48	5240	15.40	17.40	
	802.11ax-HE40 MCS0	38	5190	14.53	16.53	100.00
		46	5230	15.54	17.54	
	802.11ax-HE80 MCS0	42	5210	13.77	15.77	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	15.74	17.74	98.63
		56	5280	16.03	18.03	
		60	5300	15.60	17.60	
		64	5320	15.54	17.54	
	802.11n-HT20 MCS0	52	5260	15.45	17.45	100.00
		56	5280	15.60	17.60	
		60	5300	15.30	17.30	
		64	5320	15.24	17.24	
	802.11n-HT40 MCS0	54	5270	15.90	17.90	100.00
		62	5310	14.74	16.74	
	802.11ac-VHT20 MCS0	52	5260	15.43	17.43	100.00
		56	5280	15.58	17.58	
		60	5300	15.26	17.26	
		64	5320	15.21	17.21	
	802.11ac-VHT40 MCS0	54	5270	15.87	17.87	100.00
		62	5310	14.67	16.67	
	802.11ac-VHT80 MCS0	58	5290	14.01	16.01	100.00
	802.11ax-HE20 MCS0	52	5260	15.46	17.46	100.00
		56	5280	15.37	17.37	
		60	5300	15.35	17.35	
		64	5320	15.30	17.30	
	802.11ax-HE40 MCS0	54	5270	15.55	17.55	100.00
		62	5310	15.38	17.38	
	802.11ax-HE80 MCS0	58	5290	14.80	16.80	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	13.63	15.63	98.63
		116	5580	13.38	15.38	
		124	5620	13.60	15.60	
		132	5660	13.64	15.64	
		140	5700	13.35	15.35	
		144	5720	13.36	15.36	
	802.11n-HT20 MCS0	100	5500	13.33	15.33	100.00
		116	5580	13.09	15.09	
		124	5620	13.60	15.60	
		132	5660	13.63	15.63	
		140	5700	13.05	15.05	
		144	5720	13.03	15.03	
	802.11n-HT40 MCS0	102	5510	13.98	15.98	100.00
		110	5550	13.54	15.54	
		126	5630	13.97	15.97	
		134	5670	13.63	15.63	
		142	5710	13.50	15.50	
	802.11ac-VHT20 MCS0	100	5500	13.30	15.30	100.00
		116	5580	13.06	15.06	
		124	5620	13.58	15.58	
		132	5660	13.60	15.60	
		140	5700	13.03	15.03	
		144	5720	13.01	15.01	
	802.11ac-VHT40 MCS0	102	5510	13.77	15.77	100.00
		110	5550	13.53	15.53	
		126	5630	13.75	15.75	
		134	5670	13.61	15.61	
		142	5710	13.48	15.48	
	802.11ac-VHT80 MCS0	106	5530	12.65	14.65	100.00
		122	5610	12.79	14.79	
		138	5690	12.59	14.59	
	802.11ax-HE20 MCS0	100	5500	13.38	15.38	100.00
		116	5580	13.13	15.13	
		124	5620	13.10	15.10	
		132	5660	13.11	15.11	
		140	5700	13.12	15.12	
		144	5720	13.13	15.13	
	802.11ax-HE40 MCS0	102	5510	13.42	15.42	100.00
		110	5550	13.17	15.17	
		126	5630	13.16	15.16	
		134	5670	13.18	15.18	
		142	5710	13.18	15.18	
	802.11ax-HE80 MCS0	106	5530	12.51	14.51	100.00
		122	5610	12.66	14.66	
		138	5690	12.46	14.46	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	14.44	16.44	98.63
		157	5785	14.45	16.45	
		165	5825	14.36	16.36	
	802.11n-HT20 MCS0	149	5745	14.13	16.13	100.00
		157	5785	14.14	16.14	
		165	5825	14.06	16.06	
	802.11n-HT40 MCS0	151	5755	14.69	16.69	100.00
		159	5795	14.61	16.61	
	802.11ac-VHT20 MCS0	149	5745	14.12	16.12	100.00
		157	5785	14.13	16.13	
		165	5825	14.04	16.04	
	802.11ac-VHT40 MCS0	151	5755	14.67	16.67	100.00
		159	5795	14.59	16.59	
	802.11ac-VHT80 MCS0	155	5775	13.69	15.69	100.00
	802.11ax-HE20 MCS0	149	5745	14.12	16.12	100.00
		157	5785	14.11	16.11	
		165	5825	14.04	16.04	
	802.11ax-HE40 MCS0	151	5755	14.24	16.24	100.00
		159	5795	14.17	16.17	
	802.11ax-HE80 MCS0	155	5775	13.46	15.46	100.00

Reduced Power Level 2/3 for Head

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	13.34	15.34	98.35
		6	2437	13.31	15.31	
		11	2462	13.17	15.17	
	802.11g 6Mbps	1	2412	11.63	13.63	99.31
		6	2437	11.42	13.42	
		11	2462	11.37	13.37	
	802.11n-HT20 MCS0	1	2412	11.23	13.23	100.00
		6	2437	11.16	13.16	
		11	2462	11.02	13.02	
	802.11n-HT40 MCS0	3	2422	10.68	12.68	100.00
		6	2437	10.66	12.66	
		9	2452	10.53	12.53	
	802.11ax-HE20 MCS0	1	2412	11.27	13.27	100.00
		6	2437	11.21	13.21	
		11	2462	11.12	13.12	
	802.11ax-HE40 MCS0	3	2422	11.34	13.34	100.00
		6	2437	11.36	13.36	
		9	2452	11.27	13.27	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	11.72	13.72	98.63
		40	5200	12.02	14.02	
		44	5220	11.73	13.73	
		48	5240	11.64	13.64	
	802.11n-HT20 MCS0	36	5180	11.41	13.41	100.00
		40	5200	11.71	13.71	
		44	5220	11.44	13.44	
		48	5240	11.34	13.34	
	802.11n-HT40 MCS0	38	5190	11.87	13.87	100.00
		46	5230	11.89	13.89	
	802.11ac-VHT20 MCS0	36	5180	11.40	13.40	100.00
		40	5200	11.70	13.70	
		44	5220	11.42	13.42	
		48	5240	11.33	13.33	
	802.11ac-VHT40 MCS0	38	5190	11.85	13.85	100.00
		46	5230	11.86	13.86	
	802.11ac-VHT80 MCS0	42	5210	10.99	12.99	100.00
	802.11ax-HE20 MCS0	36	5180	11.44	13.44	100.00
		40	5200	11.42	13.42	
		44	5220	11.45	13.45	
		48	5240	11.40	13.40	
	802.11ax-HE40 MCS0	38	5190	10.53	12.53	100.00
		46	5230	11.54	13.54	
	802.11ax-HE80 MCS0	42	5210	9.77	11.77	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	11.74	13.74	98.63
		56	5280	12.03	14.03	
		60	5300	11.60	13.60	
		64	5320	11.54	13.54	
	802.11n-HT20 MCS0	52	5260	11.45	13.45	100.00
		56	5280	11.60	13.60	
		60	5300	11.30	13.30	
		64	5320	11.24	13.24	
	802.11n-HT40 MCS0	54	5270	11.90	13.90	100.00
		62	5310	10.74	12.74	
	802.11ac-VHT20 MCS0	52	5260	11.43	13.43	100.00
		56	5280	11.58	13.58	
		60	5300	11.12	13.12	
		64	5320	11.21	13.21	
	802.11ac-VHT40 MCS0	54	5270	11.87	13.87	100.00
		62	5310	10.67	12.67	
	802.11ac-VHT80 MCS0	58	5290	10.01	12.01	100.00
	802.11ax-HE20 MCS0	52	5260	11.46	13.46	100.00
		56	5280	11.37	13.37	
		60	5300	11.35	13.35	
		64	5320	11.30	13.30	
	802.11ax-HE40 MCS0	54	5270	11.55	13.55	100.00
		62	5310	11.38	13.38	
	802.11ax-HE80 MCS0	58	5290	10.80	12.80	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	9.63	11.63	98.63
		116	5580	9.38	11.38	
		124	5620	9.60	11.60	
		132	5660	9.64	11.64	
		140	5700	9.35	11.35	
		144	5720	9.36	11.36	
	802.11n-HT20 MCS0	100	5500	9.33	11.33	100.00
		116	5580	9.09	11.09	
		124	5620	9.60	11.60	
		132	5660	9.63	11.63	
		140	5700	9.05	11.05	
		144	5720	9.03	11.03	
	802.11n-HT40 MCS0	102	5510	9.98	11.98	100.00
		110	5550	9.54	11.54	
		126	5630	9.97	11.97	
		134	5670	9.63	11.63	
		142	5710	9.50	11.50	
	802.11ac-VHT20 MCS0	100	5500	9.30	11.30	100.00
		116	5580	9.06	11.06	
		124	5620	9.58	11.58	
		132	5660	9.60	11.60	
		140	5700	9.03	11.03	
		144	5720	9.01	11.01	
	802.11ac-VHT40 MCS0	102	5510	9.77	11.77	100.00
		110	5550	9.53	11.53	
		126	5630	9.75	11.75	
		134	5670	9.61	11.61	
		142	5710	9.48	11.48	
	802.11ac-VHT80 MCS0	106	5530	8.65	10.65	100.00
		122	5610	8.79	10.79	
		138	5690	8.59	10.59	
	802.11ax-HE20 MCS0	100	5500	9.38	11.38	100.00
		116	5580	9.13	11.13	
		124	5620	9.10	11.10	
		132	5660	9.11	11.11	
		140	5700	9.12	11.12	
		144	5720	9.13	11.13	
	802.11ax-HE40 MCS0	102	5510	9.42	11.42	100.00
		110	5550	9.17	11.17	
		126	5630	9.16	11.16	
		134	5670	9.18	11.18	
		142	5710	9.18	11.18	
	802.11ax-HE80 MCS0	106	5530	8.51	10.51	100.00
		122	5610	8.66	10.66	
		138	5690	8.46	10.46	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	10.44	12.44	98.63
		157	5785	10.45	12.45	
		165	5825	10.36	12.36	
	802.11n-HT20 MCS0	149	5745	10.13	12.13	100.00
		157	5785	10.14	12.14	
		165	5825	10.06	12.06	
	802.11n-HT40 MCS0	151	5755	10.69	12.69	100.00
		159	5795	10.61	12.61	
	802.11ac-VHT20 MCS0	149	5745	10.12	12.12	100.00
		157	5785	10.13	12.13	
		165	5825	10.04	12.04	
	802.11ac-VHT40 MCS0	151	5755	10.67	12.67	100.00
		159	5795	10.59	12.59	
	802.11ac-VHT80 MCS0	155	5775	9.69	11.69	100.00
	802.11ax-HE20 MCS0	149	5745	10.12	12.12	100.00
		157	5785	10.11	12.11	
		165	5825	10.04	12.04	
	802.11ax-HE40 MCS0	151	5755	10.24	12.24	100.00
		159	5795	10.17	12.17	
	802.11ax-HE80 MCS0	155	5775	9.46	11.46	100.00

Reduced Power Level 4 for Head

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	13.34	15.34	98.35
		6	2437	13.31	15.31	
		11	2462	13.17	15.17	
	802.11g 6Mbps	1	2412	11.63	13.63	99.31
		6	2437	11.42	13.42	
		11	2462	11.37	13.37	
	802.11n-HT20 MCS0	1	2412	11.23	13.23	100.00
		6	2437	11.16	13.16	
		11	2462	11.02	13.02	
	802.11n-HT40 MCS0	3	2422	10.68	12.68	100.00
		6	2437	10.66	12.66	
		9	2452	10.53	12.53	
	802.11ax-HE20 MCS0	1	2412	11.27	13.27	100.00
		6	2437	11.21	13.21	
		11	2462	11.12	13.12	
	802.11ax-HE40 MCS0	3	2422	11.34	13.34	100.00
		6	2437	11.36	13.36	
		9	2452	11.27	13.27	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	11.72	13.72	98.63
		40	5200	12.02	14.02	
		44	5220	11.73	13.73	
		48	5240	11.64	13.64	
	802.11n-HT20 MCS0	36	5180	11.41	13.41	100.00
		40	5200	11.71	13.71	
		44	5220	11.44	13.44	
		48	5240	11.34	13.34	
	802.11n-HT40 MCS0	38	5190	11.87	13.87	100.00
		46	5230	11.89	13.89	
	802.11ac-VHT20 MCS0	36	5180	11.40	13.40	100.00
		40	5200	11.70	13.70	
		44	5220	11.42	13.42	
		48	5240	11.33	13.33	
	802.11ac-VHT40 MCS0	38	5190	11.85	13.85	100.00
		46	5230	11.86	13.86	
	802.11ac-VHT80 MCS0	42	5210	10.99	12.99	100.00
	802.11ax-HE20 MCS0	36	5180	11.44	13.44	100.00
		40	5200	11.42	13.42	
		44	5220	11.45	13.45	
		48	5240	11.40	13.40	
	802.11ax-HE40 MCS0	38	5190	10.53	12.53	100.00
		46	5230	11.54	13.54	
	802.11ax-HE80 MCS0	42	5210	9.77	11.77	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	11.74	13.74	98.63
		56	5280	12.03	14.03	
		60	5300	11.60	13.60	
		64	5320	11.54	13.54	
	802.11n-HT20 MCS0	52	5260	11.45	13.45	100.00
		56	5280	11.60	13.60	
		60	5300	11.30	13.30	
		64	5320	11.24	13.24	
	802.11n-HT40 MCS0	54	5270	11.90	13.90	100.00
		62	5310	10.74	12.74	
	802.11ac-VHT20 MCS0	52	5260	11.43	13.43	100.00
		56	5280	11.58	13.58	
		60	5300	11.12	13.12	
		64	5320	11.21	13.21	
	802.11ac-VHT40 MCS0	54	5270	11.87	13.87	100.00
		62	5310	10.67	12.67	
	802.11ac-VHT80 MCS0	58	5290	10.01	12.01	100.00
	802.11ax-HE20 MCS0	52	5260	11.46	13.46	100.00
		56	5280	11.37	13.37	
		60	5300	11.35	13.35	
		64	5320	11.30	13.30	
	802.11ax-HE40 MCS0	54	5270	11.55	13.55	100.00
		62	5310	11.38	13.38	
	802.11ax-HE80 MCS0	58	5290	10.80	12.80	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	9.63	11.63	98.63
		116	5580	9.38	11.38	
		124	5620	9.60	11.60	
		132	5660	9.64	11.64	
		140	5700	9.35	11.35	
		144	5720	9.36	11.36	
	802.11n-HT20 MCS0	100	5500	9.33	11.33	100.00
		116	5580	9.09	11.09	
		124	5620	9.60	11.60	
		132	5660	9.63	11.63	
		140	5700	9.05	11.05	
		144	5720	9.03	11.03	
	802.11n-HT40 MCS0	102	5510	9.98	11.98	100.00
		110	5550	9.54	11.54	
		126	5630	9.97	11.97	
		134	5670	9.63	11.63	
		142	5710	9.50	11.50	
	802.11ac-VHT20 MCS0	100	5500	9.30	11.30	100.00
		116	5580	9.06	11.06	
		124	5620	9.58	11.58	
		132	5660	9.60	11.60	
		140	5700	9.03	11.03	
		144	5720	9.01	11.01	
	802.11ac-VHT40 MCS0	102	5510	9.77	11.77	100.00
		110	5550	9.53	11.53	
		126	5630	9.75	11.75	
		134	5670	9.61	11.61	
		142	5710	9.48	11.48	
	802.11ac-VHT80 MCS0	106	5530	8.65	10.65	100.00
		122	5610	8.79	10.79	
		138	5690	8.59	10.59	
	802.11ax-HE20 MCS0	100	5500	9.38	11.38	100.00
		116	5580	9.13	11.13	
		124	5620	9.10	11.10	
		132	5660	9.11	11.11	
		140	5700	9.12	11.12	
		144	5720	9.13	11.13	
	802.11ax-HE40 MCS0	102	5510	9.42	11.42	100.00
		110	5550	9.17	11.17	
		126	5630	9.16	11.16	
		134	5670	9.18	11.18	
		142	5710	9.18	11.18	
	802.11ax-HE80 MCS0	106	5530	8.51	10.51	100.00
		122	5610	8.66	10.66	
		138	5690	8.46	10.46	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	10.44	12.44	98.63
		157	5785	10.45	12.45	
		165	5825	10.36	12.36	
	802.11n-HT20 MCS0	149	5745	10.13	12.13	100.00
		157	5785	10.14	12.14	
		165	5825	10.06	12.06	
	802.11n-HT40 MCS0	151	5755	10.69	12.69	100.00
		159	5795	10.61	12.61	
	802.11ac-VHT20 MCS0	149	5745	10.12	12.12	100.00
		157	5785	10.13	12.13	
		165	5825	10.04	12.04	
	802.11ac-VHT40 MCS0	151	5755	10.67	12.67	100.00
		159	5795	10.59	12.59	
	802.11ac-VHT80 MCS0	155	5775	9.69	11.69	100.00
	802.11ax-HE20 MCS0	149	5745	10.12	12.12	100.00
		157	5785	10.11	12.11	
		165	5825	10.04	12.04	
	802.11ax-HE40 MCS0	151	5755	10.24	12.24	100.00
		159	5795	10.17	12.17	
	802.11ax-HE80 MCS0	155	5775	9.46	11.46	100.00

Reduced Power Level 1 for Hotspot

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	20.34	22.34	98.35
		6	2437	20.31	22.31	
		11	2462	20.17	22.17	
	802.11g 6Mbps	1	2412	17.63	19.63	99.31
		6	2437	17.42	19.42	
		11	2462	17.37	19.37	
	802.11n-HT20 MCS0	1	2412	17.23	19.23	100.00
		6	2437	17.16	19.16	
		11	2462	17.02	19.02	
	802.11n-HT40 MCS0	3	2422	16.68	18.68	100.00
		6	2437	16.66	18.66	
		9	2452	16.53	18.53	
	802.11ax-HE20 MCS0	1	2412	17.27	19.27	100.00
		6	2437	17.21	19.21	
		11	2462	17.12	19.12	
	802.11ax-HE40 MCS0	3	2422	17.34	19.34	100.00
		6	2437	17.36	19.36	
		9	2452	17.27	19.27	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	20.72	22.72	98.63
		40	5200	21.02	23.02	
		44	5220	20.73	22.73	
		48	5240	20.64	22.64	
	802.11n-HT20 MCS0	36	5180	20.41	22.41	100.00
		40	5200	20.71	22.71	
		44	5220	20.44	22.44	
		48	5240	20.34	22.34	
	802.11n-HT40 MCS0	38	5190	20.87	22.87	100.00
		46	5230	20.89	22.89	
	802.11ac-VHT20 MCS0	36	5180	20.40	22.40	100.00
		40	5200	20.70	22.70	
		44	5220	20.42	22.42	
		48	5240	20.33	22.33	
	802.11ac-VHT40 MCS0	38	5190	20.85	22.85	100.00
		46	5230	20.86	22.86	
	802.11ac-VHT80 MCS0	42	5210	19.99	21.99	100.00
	802.11ax-HE20 MCS0	36	5180	20.44	22.44	100.00
		40	5200	20.42	22.42	
		44	5220	20.45	22.45	
		48	5240	20.40	22.40	
	802.11ax-HE40 MCS0	38	5190	19.53	21.53	100.00
		46	5230	20.54	22.54	
	802.11ax-HE80 MCS0	42	5210	18.77	20.77	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.44	22.44	98.63
		157	5785	20.45	22.45	
		165	5825	20.36	22.36	
	802.11n-HT20 MCS0	149	5745	20.13	22.13	100.00
		157	5785	20.14	22.14	
		165	5825	20.06	22.06	
	802.11n-HT40 MCS0	151	5755	20.69	22.69	100.00
		159	5795	20.61	22.61	
	802.11ac-VHT20 MCS0	149	5745	20.12	22.12	100.00
		157	5785	20.13	22.13	
		165	5825	20.04	22.04	
	802.11ac-VHT40 MCS0	151	5755	20.67	22.67	100.00
		159	5795	20.59	22.59	
	802.11ac-VHT80 MCS0	155	5775	19.69	21.69	100.00
	802.11ax-HE20 MCS0	149	5745	20.12	22.12	100.00
		157	5785	20.11	22.11	
		165	5825	20.04	22.04	
	802.11ax-HE40 MCS0	151	5755	20.24	22.24	100.00
		159	5795	20.17	22.17	
	802.11ax-HE80 MCS0	155	5775	19.46	21.46	100.00

Reduced Power Level 2/3 for Hotspot

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.34	20.34	98.35
		6	2437	18.31	20.31	
		11	2462	18.17	20.17	
	802.11g 6Mbps	1	2412	16.63	18.63	99.31
		6	2437	16.42	18.42	
		11	2462	16.37	18.37	
	802.11n-HT20 MCS0	1	2412	16.23	18.23	100.00
		6	2437	16.16	18.16	
		11	2462	16.02	18.02	
	802.11n-HT40 MCS0	3	2422	15.68	17.68	100.00
		6	2437	15.66	17.66	
		9	2452	15.53	17.53	
	802.11ax-HE20 MCS0	1	2412	16.27	18.27	100.00
		6	2437	16.21	18.21	
		11	2462	16.12	18.12	
	802.11ax-HE40 MCS0	3	2422	16.34	18.34	100.00
		6	2437	16.36	18.36	
		9	2452	16.27	18.27	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.72	20.72	98.63
		40	5200	19.02	21.02	
		44	5220	18.73	20.73	
		48	5240	18.64	20.64	
	802.11n-HT20 MCS0	36	5180	18.41	20.41	100.00
		40	5200	18.71	20.71	
		44	5220	18.44	20.44	
		48	5240	18.34	20.34	
	802.11n-HT40 MCS0	38	5190	18.87	20.87	100.00
		46	5230	18.89	20.89	
	802.11ac-VHT20 MCS0	36	5180	18.40	20.40	100.00
		40	5200	18.70	20.70	
		44	5220	18.42	20.42	
		48	5240	18.33	20.33	
	802.11ac-VHT40 MCS0	38	5190	18.85	20.85	100.00
		46	5230	18.86	20.86	
	802.11ac-VHT80 MCS0	42	5210	17.99	19.99	100.00
	802.11ax-HE20 MCS0	36	5180	18.44	20.44	100.00
		40	5200	18.42	20.42	
		44	5220	18.45	20.45	
		48	5240	18.40	20.40	
	802.11ax-HE40 MCS0	38	5190	17.53	19.53	100.00
		46	5230	18.54	20.54	
	802.11ax-HE80 MCS0	42	5210	16.77	18.77	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	19.44	21.44	98.63
		157	5785	19.45	21.45	
		165	5825	19.36	21.36	
	802.11n-HT20 MCS0	149	5745	19.13	21.13	100.00
		157	5785	19.14	21.14	
		165	5825	19.06	21.06	
	802.11n-HT40 MCS0	151	5755	19.69	21.69	100.00
		159	5795	19.61	21.61	
	802.11ac-VHT20 MCS0	149	5745	19.12	21.12	100.00
		157	5785	19.13	21.13	
		165	5825	19.04	21.04	
	802.11ac-VHT40 MCS0	151	5755	19.67	21.67	100.00
		159	5795	19.59	21.59	
	802.11ac-VHT80 MCS0	155	5775	18.69	20.69	100.00
	802.11ax-HE20 MCS0	149	5745	19.12	21.12	100.00
		157	5785	19.11	21.11	
		165	5825	19.04	21.04	
	802.11ax-HE40 MCS0	151	5755	19.24	21.24	100.00
		159	5795	19.17	21.17	
	802.11ax-HE80 MCS0	155	5775	18.46	20.46	100.00

Reduced Power Level 4 for Hotspot

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	15.34	17.34	98.35
		6	2437	15.31	17.31	
		11	2462	15.17	17.17	
	802.11g 6Mbps	1	2412	13.63	15.63	99.31
		6	2437	13.42	15.42	
		11	2462	13.37	15.37	
	802.11n-HT20 MCS0	1	2412	13.23	15.23	100.00
		6	2437	13.16	15.16	
		11	2462	13.02	15.02	
	802.11n-HT40 MCS0	3	2422	12.68	14.68	100.00
		6	2437	12.66	14.66	
		9	2452	12.53	14.53	
	802.11ax-HE20 MCS0	1	2412	13.27	15.27	100.00
		6	2437	13.21	15.21	
		11	2462	13.12	15.12	
	802.11ax-HE40 MCS0	3	2422	13.34	15.34	100.00
		6	2437	13.36	15.36	
		9	2452	13.27	15.27	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	15.72	17.72	98.63
		40	5200	16.02	18.02	
		44	5220	15.73	17.73	
		48	5240	15.64	17.64	
	802.11n-HT20 MCS0	36	5180	15.41	17.41	100.00
		40	5200	15.71	17.71	
		44	5220	15.44	17.44	
		48	5240	15.34	17.34	
	802.11n-HT40 MCS0	38	5190	15.87	17.87	100.00
		46	5230	15.89	17.89	
	802.11ac-VHT20 MCS0	36	5180	15.40	17.40	100.00
		40	5200	15.70	17.70	
		44	5220	15.42	17.42	
		48	5240	15.33	17.33	
	802.11ac-VHT40 MCS0	38	5190	15.85	17.85	100.00
		46	5230	15.86	17.86	
	802.11ac-VHT80 MCS0	42	5210	14.99	16.99	100.00
	802.11ax-HE20 MCS0	36	5180	15.44	17.44	100.00
		40	5200	15.42	17.42	
		44	5220	15.45	17.45	
		48	5240	15.40	17.40	
	802.11ax-HE40 MCS0	38	5190	14.53	16.53	100.00
		46	5230	15.54	17.54	
	802.11ax-HE80 MCS0	42	5210	13.77	15.77	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	16.44	18.44	98.63
		157	5785	16.45	18.45	
		165	5825	16.36	18.36	
	802.11n-HT20 MCS0	149	5745	16.13	18.13	100.00
		157	5785	16.14	18.14	
		165	5825	16.06	18.06	
	802.11n-HT40 MCS0	151	5755	16.69	18.69	100.00
		159	5795	16.61	18.61	
	802.11ac-VHT20 MCS0	149	5745	16.12	18.12	100.00
		157	5785	16.13	18.13	
		165	5825	16.04	18.04	
	802.11ac-VHT40 MCS0	151	5755	16.67	18.67	100.00
		159	5795	16.59	18.59	
	802.11ac-VHT80 MCS0	155	5775	15.69	17.69	100.00
	802.11ax-HE20 MCS0	149	5745	16.12	18.12	100.00
		157	5785	16.11	18.11	
		165	5825	16.04	18.04	
	802.11ax-HE40 MCS0	151	5755	16.24	18.24	100.00
		159	5795	16.17	18.17	
	802.11ax-HE80 MCS0	155	5775	15.46	17.46	100.00

Reduced Power Level 1 for Body

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	22.34	24.34	98.35
		6	2437	22.31	24.31	
		11	2462	22.17	24.17	
	802.11g 6Mbps	1	2412	20.63	22.63	99.31
		6	2437	20.42	22.42	
		11	2462	20.37	22.37	
	802.11n-HT20 MCS0	1	2412	20.23	22.23	100.00
		6	2437	20.16	22.16	
		11	2462	20.02	22.02	
	802.11n-HT40 MCS0	3	2422	19.68	21.68	100.00
		6	2437	19.66	21.66	
		9	2452	19.53	21.53	
	802.11ax-HE20 MCS0	1	2412	20.27	22.27	100.00
		6	2437	20.21	22.21	
		11	2462	20.12	22.12	
	802.11ax-HE40 MCS0	3	2422	20.34	22.34	100.00
		6	2437	20.36	22.36	
		9	2452	20.27	22.27	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	20.72	22.72	98.63
		40	5200	21.02	23.02	
		44	5220	20.73	22.73	
		48	5240	20.64	22.64	
	802.11n-HT20 MCS0	36	5180	20.41	22.41	100.00
		40	5200	20.71	22.71	
		44	5220	20.44	22.44	
		48	5240	20.34	22.34	
	802.11n-HT40 MCS0	38	5190	20.87	22.87	100.00
		46	5230	20.89	22.89	
	802.11ac-VHT20 MCS0	36	5180	20.40	22.40	100.00
		40	5200	20.70	22.70	
		44	5220	20.42	22.42	
		48	5240	20.33	22.33	
	802.11ac-VHT40 MCS0	38	5190	20.85	22.85	100.00
		46	5230	20.86	22.86	
	802.11ac-VHT80 MCS0	42	5210	19.99	21.99	100.00
	802.11ax-HE20 MCS0	36	5180	20.44	22.44	100.00
		40	5200	20.42	22.42	
		44	5220	20.45	22.45	
		48	5240	20.40	22.40	
	802.11ax-HE40 MCS0	38	5190	19.53	21.53	100.00
		46	5230	20.54	22.54	
	802.11ax-HE80 MCS0	42	5210	18.77	20.77	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	20.74	22.74	98.63
		56	5280	21.03	23.03	
		60	5300	20.60	22.60	
		64	5320	20.54	22.54	
	802.11n-HT20 MCS0	52	5260	20.45	22.45	100.00
		56	5280	20.60	22.60	
		60	5300	20.30	22.30	
		64	5320	20.24	22.24	
	802.11n-HT40 MCS0	54	5270	20.90	22.90	100.00
		62	5310	19.74	21.74	
	802.11ac-VHT20 MCS0	52	5260	20.43	22.43	100.00
		56	5280	20.58	22.58	
		60	5300	20.12	22.12	
		64	5320	20.21	22.21	
	802.11ac-VHT40 MCS0	54	5270	20.87	22.87	100.00
		62	5310	19.67	21.67	
	802.11ac-VHT80 MCS0	58	5290	19.01	21.01	100.00
	802.11ax-HE20 MCS0	52	5260	20.46	22.46	100.00
		56	5280	20.37	22.37	
		60	5300	20.35	22.35	
		64	5320	20.30	22.30	
	802.11ax-HE40 MCS0	54	5270	20.55	22.55	100.00
		62	5310	20.38	22.38	
	802.11ax-HE80 MCS0	58	5290	19.80	21.80	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	20.63	22.63	98.63
		116	5580	20.38	22.38	
		124	5620	20.60	22.60	
		132	5660	20.64	22.64	
		140	5700	20.35	22.35	
		144	5720	20.36	22.36	
	802.11n-HT20 MCS0	100	5500	20.33	22.33	100.00
		116	5580	20.09	22.09	
		124	5620	20.60	22.60	
		132	5660	20.63	22.63	
		140	5700	20.05	22.05	
		144	5720	20.03	22.03	
	802.11n-HT40 MCS0	102	5510	20.98	22.98	100.00
		110	5550	20.54	22.54	
		126	5630	20.97	22.97	
		134	5670	20.63	22.63	
		142	5710	20.50	22.50	
	802.11ac-VHT20 MCS0	100	5500	20.30	22.30	100.00
		116	5580	20.06	22.06	
		124	5620	20.58	22.58	
		132	5660	20.60	22.60	
		140	5700	20.03	22.03	
		144	5720	20.01	22.01	
	802.11ac-VHT40 MCS0	102	5510	20.77	22.77	100.00
		110	5550	20.53	22.53	
		126	5630	20.75	22.75	
		134	5670	20.61	22.61	
		142	5710	20.48	22.48	
	802.11ac-VHT80 MCS0	106	5530	19.65	21.65	100.00
		122	5610	19.79	21.79	
		138	5690	19.59	21.59	
	802.11ax-HE20 MCS0	100	5500	20.38	22.38	100.00
		116	5580	20.13	22.13	
		124	5620	20.10	22.10	
		132	5660	20.11	22.11	
		140	5700	20.12	22.12	
		144	5720	20.13	22.13	
	802.11ax-HE40 MCS0	102	5510	20.42	22.42	100.00
		110	5550	20.17	22.17	
		126	5630	20.16	22.16	
		134	5670	20.18	22.18	
		142	5710	20.18	22.18	
	802.11ax-HE80 MCS0	106	5530	19.51	21.51	100.00
		122	5610	19.66	21.66	
		138	5690	19.46	21.46	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.44	22.44	98.63
		157	5785	20.45	22.45	
		165	5825	20.36	22.36	
	802.11n-HT20 MCS0	149	5745	20.13	22.13	100.00
		157	5785	20.14	22.14	
		165	5825	20.06	22.06	
	802.11n-HT40 MCS0	151	5755	20.69	22.69	100.00
		159	5795	20.61	22.61	
	802.11ac-VHT20 MCS0	149	5745	20.12	22.12	100.00
		157	5785	20.13	22.13	
		165	5825	20.04	22.04	
	802.11ac-VHT40 MCS0	151	5755	20.67	22.67	100.00
		159	5795	20.59	22.59	
	802.11ac-VHT80 MCS0	155	5775	19.69	21.69	100.00
	802.11ax-HE20 MCS0	149	5745	20.12	22.12	100.00
		157	5785	20.11	22.11	
		165	5825	20.04	22.04	
	802.11ax-HE40 MCS0	151	5755	20.24	22.24	100.00
		159	5795	20.17	22.17	
	802.11ax-HE80 MCS0	155	5775	19.46	21.46	100.00

Reduced Power Level 2/3 for Body

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.34	20.34	98.35
		6	2437	18.31	20.31	
		11	2462	18.17	20.17	
	802.11g 6Mbps	1	2412	16.63	18.63	99.31
		6	2437	16.42	18.42	
		11	2462	16.37	18.37	
	802.11n-HT20 MCS0	1	2412	16.23	18.23	100.00
		6	2437	16.16	18.16	
		11	2462	16.02	18.02	
	802.11n-HT40 MCS0	3	2422	15.68	17.68	100.00
		6	2437	15.66	17.66	
		9	2452	15.53	17.53	
	802.11ax-HE20 MCS0	1	2412	16.27	18.27	100.00
		6	2437	16.21	18.21	
		11	2462	16.12	18.12	
	802.11ax-HE40 MCS0	3	2422	16.34	18.34	100.00
		6	2437	16.36	18.36	
		9	2452	16.27	18.27	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	16.72	18.72	98.63
		40	5200	17.02	19.02	
		44	5220	16.73	18.73	
		48	5240	16.64	18.64	
	802.11n-HT20 MCS0	36	5180	16.41	18.41	100.00
		40	5200	16.71	18.71	
		44	5220	16.44	18.44	
		48	5240	16.34	18.34	
	802.11n-HT40 MCS0	38	5190	16.87	18.87	100.00
		46	5230	16.89	18.89	
	802.11ac-VHT20 MCS0	36	5180	16.40	18.40	100.00
		40	5200	16.70	18.70	
		44	5220	16.42	18.42	
		48	5240	16.33	18.33	
	802.11ac-VHT40 MCS0	38	5190	16.85	18.85	100.00
		46	5230	16.86	18.86	
	802.11ac-VHT80 MCS0	42	5210	15.99	17.99	100.00
	802.11ax-HE20 MCS0	36	5180	16.44	18.44	100.00
		40	5200	16.42	18.42	
		44	5220	16.45	18.45	
		48	5240	16.40	18.40	
	802.11ax-HE40 MCS0	38	5190	15.53	17.53	100.00
		46	5230	16.54	18.54	
	802.11ax-HE80 MCS0	42	5210	14.77	16.77	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	16.74	18.74	98.63
		56	5280	17.03	19.03	
		60	5300	16.60	18.60	
		64	5320	16.54	18.54	
	802.11n-HT20 MCS0	52	5260	16.45	18.45	100.00
		56	5280	16.60	18.60	
		60	5300	16.30	18.30	
		64	5320	16.24	18.24	
	802.11n-HT40 MCS0	54	5270	16.90	18.90	100.00
		62	5310	15.74	17.74	
	802.11ac-VHT20 MCS0	52	5260	16.43	18.43	100.00
		56	5280	16.58	18.58	
		60	5300	16.12	18.12	
		64	5320	16.21	18.21	
	802.11ac-VHT40 MCS0	54	5270	16.87	18.87	100.00
		62	5310	15.67	17.67	
	802.11ac-VHT80 MCS0	58	5290	15.01	17.01	100.00
	802.11ax-HE20 MCS0	52	5260	16.46	18.46	100.00
		56	5280	16.37	18.37	
		60	5300	16.35	18.35	
		64	5320	16.30	18.30	
	802.11ax-HE40 MCS0	54	5270	16.55	18.55	100.00
		62	5310	16.38	18.38	
	802.11ax-HE80 MCS0	58	5290	15.80	17.80	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	16.63	18.63	98.63
		116	5580	16.38	18.38	
		124	5620	16.60	18.60	
		132	5660	16.64	18.64	
		140	5700	16.35	18.35	
		144	5720	16.36	18.36	
	802.11n-HT20 MCS0	100	5500	16.33	18.33	100.00
		116	5580	16.09	18.09	
		124	5620	16.60	18.60	
		132	5660	16.63	18.63	
		140	5700	16.05	18.05	
		144	5720	16.03	18.03	
	802.11n-HT40 MCS0	102	5510	16.98	18.98	100.00
		110	5550	16.54	18.54	
		126	5630	16.97	18.97	
		134	5670	16.63	18.63	
		142	5710	16.50	18.50	
	802.11ac-VHT20 MCS0	100	5500	16.30	18.30	100.00
		116	5580	16.06	18.06	
		124	5620	16.58	18.58	
		132	5660	16.60	18.60	
		140	5700	16.03	18.03	
		144	5720	16.01	18.01	
	802.11ac-VHT40 MCS0	102	5510	16.77	18.77	100.00
		110	5550	16.53	18.53	
		126	5630	16.75	18.75	
		134	5670	16.61	18.61	
		142	5710	16.48	18.48	
	802.11ac-VHT80 MCS0	106	5530	15.65	17.65	100.00
		122	5610	15.79	17.79	
		138	5690	15.59	17.59	
	802.11ax-HE20 MCS0	100	5500	16.38	18.38	100.00
		116	5580	16.13	18.13	
		124	5620	16.10	18.10	
		132	5660	16.11	18.11	
		140	5700	16.12	18.12	
		144	5720	16.13	18.13	
	802.11ax-HE40 MCS0	102	5510	16.42	18.42	100.00
		110	5550	16.17	18.17	
		126	5630	16.16	18.16	
		134	5670	16.18	18.18	
		142	5710	16.18	18.18	
	802.11ax-HE80 MCS0	106	5530	15.51	17.51	100.00
		122	5610	15.66	17.66	
		138	5690	15.46	17.46	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.44	22.44	98.63
		157	5785	20.45	22.45	
		165	5825	20.36	22.36	
	802.11n-HT20 MCS0	149	5745	20.13	22.13	100.00
		157	5785	20.14	22.14	
		165	5825	20.06	22.06	
	802.11n-HT40 MCS0	151	5755	20.69	22.69	100.00
		159	5795	20.61	22.61	
	802.11ac-VHT20 MCS0	149	5745	20.12	22.12	100.00
		157	5785	20.13	22.13	
		165	5825	20.04	22.04	
	802.11ac-VHT40 MCS0	151	5755	20.67	22.67	100.00
		159	5795	20.59	22.59	
	802.11ac-VHT80 MCS0	155	5775	19.69	21.69	100.00
	802.11ax-HE20 MCS0	149	5745	20.12	22.12	100.00
		157	5785	20.11	22.11	
		165	5825	20.04	22.04	
	802.11ax-HE40 MCS0	151	5755	20.24	22.24	100.00
		159	5795	20.17	22.17	
	802.11ax-HE80 MCS0	155	5775	19.46	21.46	100.00

Reduced Power Level 4 for Body

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	15.34	17.34	98.35
		6	2437	15.31	17.31	
		11	2462	15.17	17.17	
	802.11g 6Mbps	1	2412	13.63	15.63	99.31
		6	2437	13.42	15.42	
		11	2462	13.37	15.37	
	802.11n-HT20 MCS0	1	2412	13.23	15.23	100.00
		6	2437	13.16	15.16	
		11	2462	13.02	15.02	
	802.11n-HT40 MCS0	3	2422	12.68	14.68	100.00
		6	2437	12.66	14.66	
		9	2452	12.53	14.53	
	802.11ax-HE20 MCS0	1	2412	13.27	15.27	100.00
		6	2437	13.21	15.21	
		11	2462	13.12	15.12	
	802.11ax-HE40 MCS0	3	2422	13.34	15.34	100.00
		6	2437	13.36	15.36	
		9	2452	13.27	15.27	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	13.72	15.72	98.63
		40	5200	14.02	16.02	
		44	5220	13.73	15.73	
		48	5240	13.64	15.64	
	802.11n-HT20 MCS0	36	5180	13.41	15.41	100.00
		40	5200	13.71	15.71	
		44	5220	13.44	15.44	
		48	5240	13.34	15.34	
	802.11n-HT40 MCS0	38	5190	13.87	15.87	100.00
		46	5230	13.89	15.89	
	802.11ac-VHT20 MCS0	36	5180	13.40	15.40	100.00
		40	5200	13.70	15.70	
		44	5220	13.42	15.42	
		48	5240	13.33	15.33	
	802.11ac-VHT40 MCS0	38	5190	13.85	15.85	100.00
		46	5230	13.86	15.86	
	802.11ac-VHT80 MCS0	42	5210	12.99	14.99	100.00
	802.11ax-HE20 MCS0	36	5180	13.44	15.44	100.00
		40	5200	13.42	15.42	
		44	5220	13.45	15.45	
		48	5240	13.40	15.40	
	802.11ax-HE40 MCS0	38	5190	12.53	14.53	100.00
		46	5230	13.54	15.54	
	802.11ax-HE80 MCS0	42	5210	11.77	13.77	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	13.74	15.74	98.63
		56	5280	14.03	16.03	
		60	5300	13.60	15.60	
		64	5320	13.54	15.54	
	802.11n-HT20 MCS0	52	5260	13.45	15.45	100.00
		56	5280	13.60	15.60	
		60	5300	13.30	15.30	
		64	5320	13.24	15.24	
	802.11n-HT40 MCS0	54	5270	13.90	15.90	100.00
		62	5310	12.74	14.74	
	802.11ac-VHT20 MCS0	52	5260	13.43	15.43	100.00
		56	5280	13.58	15.58	
		60	5300	13.12	15.12	
		64	5320	13.21	15.21	
	802.11ac-VHT40 MCS0	54	5270	13.87	15.87	100.00
		62	5310	12.67	14.67	
	802.11ac-VHT80 MCS0	58	5290	12.01	14.01	100.00
	802.11ax-HE20 MCS0	52	5260	13.46	15.46	100.00
		56	5280	13.37	15.37	
		60	5300	13.35	15.35	
		64	5320	13.30	15.30	
	802.11ax-HE40 MCS0	54	5270	13.55	15.55	100.00
		62	5310	13.38	15.38	
	802.11ax-HE80 MCS0	58	5290	12.80	14.80	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	13.63	15.63	98.63
		116	5580	13.38	15.38	
		124	5620	13.60	15.60	
		132	5660	13.64	15.64	
		140	5700	13.35	15.35	
		144	5720	13.36	15.36	
	802.11n-HT20 MCS0	100	5500	13.33	15.33	100.00
		116	5580	13.09	15.09	
		124	5620	13.60	15.60	
		132	5660	13.63	15.63	
		140	5700	13.05	15.05	
		144	5720	13.03	15.03	
	802.11n-HT40 MCS0	102	5510	13.98	15.98	100.00
		110	5550	13.54	15.54	
		126	5630	13.97	15.97	
		134	5670	13.63	15.63	
		142	5710	13.50	15.50	
	802.11ac-VHT20 MCS0	100	5500	13.30	15.30	100.00
		116	5580	13.06	15.06	
		124	5620	13.58	15.58	
		132	5660	13.60	15.60	
		140	5700	13.03	15.03	
		144	5720	13.01	15.01	
	802.11ac-VHT40 MCS0	102	5510	13.77	15.77	100.00
		110	5550	13.53	15.53	
		126	5630	13.75	15.75	
		134	5670	13.61	15.61	
		142	5710	13.48	15.48	
	802.11ac-VHT80 MCS0	106	5530	12.65	14.65	100.00
		122	5610	12.79	14.79	
		138	5690	12.59	14.59	
	802.11ax-HE20 MCS0	100	5500	13.38	15.38	100.00
		116	5580	13.13	15.13	
		124	5620	13.10	15.10	
		132	5660	13.11	15.11	
		140	5700	13.12	15.12	
		144	5720	13.13	15.13	
	802.11ax-HE40 MCS0	102	5510	13.42	15.42	100.00
		110	5550	13.17	15.17	
		126	5630	13.16	15.16	
		134	5670	13.18	15.18	
		142	5710	13.18	15.18	
	802.11ax-HE80 MCS0	106	5530	12.51	14.51	100.00
		122	5610	12.66	14.66	
		138	5690	12.46	14.46	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	17.44	19.44	98.63
		157	5785	17.45	19.45	
		165	5825	17.36	19.36	
	802.11n-HT20 MCS0	149	5745	17.13	19.13	100.00
		157	5785	17.14	19.14	
		165	5825	17.06	19.06	
	802.11n-HT40 MCS0	151	5755	17.69	19.69	100.00
		159	5795	17.61	19.61	
	802.11ac-VHT20 MCS0	149	5745	17.12	19.12	100.00
		157	5785	17.13	19.13	
		165	5825	17.04	19.04	
	802.11ac-VHT40 MCS0	151	5755	17.67	19.67	100.00
		159	5795	17.59	19.59	
	802.11ac-VHT80 MCS0	155	5775	16.69	18.69	100.00
	802.11ax-HE20 MCS0	149	5745	17.12	19.12	100.00
		157	5785	17.11	19.11	
		165	5825	17.04	19.04	
	802.11ax-HE40 MCS0	151	5755	17.24	19.24	100.00
		159	5795	17.17	19.17	
	802.11ax-HE80 MCS0	155	5775	16.46	18.46	100.00

Reduced Power Level 1 for Product Specific

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	22.34	24.34	98.35
		6	2437	22.31	24.31	
		11	2462	22.17	24.17	
	802.11g 6Mbps	1	2412	20.63	22.63	99.31
		6	2437	20.42	22.42	
		11	2462	20.37	22.37	
	802.11n-HT20 MCS0	1	2412	20.23	22.23	100.00
		6	2437	20.16	22.16	
		11	2462	20.02	22.02	
	802.11n-HT40 MCS0	3	2422	19.68	21.68	100.00
		6	2437	19.66	21.66	
		9	2452	19.53	21.53	
	802.11ax-HE20 MCS0	1	2412	20.27	22.27	100.00
		6	2437	20.21	22.21	
		11	2462	20.12	22.12	
	802.11ax-HE40 MCS0	3	2422	20.34	22.34	100.00
		6	2437	20.36	22.36	
		9	2452	20.27	22.27	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	20.72	22.72	98.63
		40	5200	21.02	23.02	
		44	5220	20.73	22.73	
		48	5240	20.64	22.64	
	802.11n-HT20 MCS0	36	5180	20.41	22.41	100.00
		40	5200	20.71	22.71	
		44	5220	20.44	22.44	
		48	5240	20.34	22.34	
	802.11n-HT40 MCS0	38	5190	20.87	22.87	100.00
		46	5230	20.89	22.89	
	802.11ac-VHT20 MCS0	36	5180	20.40	22.40	100.00
		40	5200	20.70	22.70	
		44	5220	20.42	22.42	
		48	5240	20.33	22.33	
	802.11ac-VHT40 MCS0	38	5190	20.85	22.85	100.00
		46	5230	20.86	22.86	
	802.11ac-VHT80 MCS0	42	5210	19.99	21.99	100.00
	802.11ax-HE20 MCS0	36	5180	20.44	22.44	100.00
		40	5200	20.42	22.42	
		44	5220	20.45	22.45	
		48	5240	20.40	22.40	
	802.11ax-HE40 MCS0	38	5190	19.53	21.53	100.00
		46	5230	20.54	22.54	
	802.11ax-HE80 MCS0	42	5210	18.77	20.77	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	20.74	22.74	98.63
		56	5280	21.03	23.03	
		60	5300	20.60	22.60	
		64	5320	20.54	22.54	
	802.11n-HT20 MCS0	52	5260	20.45	22.45	100.00
		56	5280	20.60	22.60	
		60	5300	20.30	22.30	
		64	5320	20.24	22.24	
	802.11n-HT40 MCS0	54	5270	20.90	22.90	100.00
		62	5310	19.74	21.74	
	802.11ac-VHT20 MCS0	52	5260	20.43	22.43	100.00
		56	5280	20.58	22.58	
		60	5300	20.12	22.12	
		64	5320	20.21	22.21	
	802.11ac-VHT40 MCS0	54	5270	20.87	22.87	100.00
		62	5310	19.67	21.67	
	802.11ac-VHT80 MCS0	58	5290	19.01	21.01	100.00
	802.11ax-HE20 MCS0	52	5260	20.46	22.46	100.00
		56	5280	20.37	22.37	
		60	5300	20.35	22.35	
		64	5320	20.30	22.30	
	802.11ax-HE40 MCS0	54	5270	20.55	22.55	100.00
		62	5310	20.38	22.38	
	802.11ax-HE80 MCS0	58	5290	19.80	21.80	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	20.63	22.63	98.63
		116	5580	20.38	22.38	
		124	5620	20.60	22.60	
		132	5660	20.64	22.64	
		140	5700	20.35	22.35	
		144	5720	20.36	22.36	
	802.11n-HT20 MCS0	100	5500	20.33	22.33	100.00
		116	5580	20.09	22.09	
		124	5620	20.60	22.60	
		132	5660	20.63	22.63	
		140	5700	20.05	22.05	
		144	5720	20.03	22.03	
	802.11n-HT40 MCS0	102	5510	20.98	22.98	100.00
		110	5550	20.54	22.54	
		126	5630	20.97	22.97	
		134	5670	20.63	22.63	
		142	5710	20.50	22.50	
	802.11ac-VHT20 MCS0	100	5500	20.30	22.30	100.00
		116	5580	20.06	22.06	
		124	5620	20.58	22.58	
		132	5660	20.60	22.60	
		140	5700	20.03	22.03	
		144	5720	20.01	22.01	
	802.11ac-VHT40 MCS0	102	5510	20.77	22.77	100.00
		110	5550	20.53	22.53	
		126	5630	20.75	22.75	
		134	5670	20.61	22.61	
		142	5710	20.48	22.48	
	802.11ac-VHT80 MCS0	106	5530	19.65	21.65	100.00
		122	5610	19.79	21.79	
		138	5690	19.59	21.59	
	802.11ax-HE20 MCS0	100	5500	20.38	22.38	100.00
		116	5580	20.13	22.13	
		124	5620	20.10	22.10	
		132	5660	20.11	22.11	
		140	5700	20.12	22.12	
		144	5720	20.13	22.13	
	802.11ax-HE40 MCS0	102	5510	20.42	22.42	100.00
		110	5550	20.17	22.17	
		126	5630	20.16	22.16	
		134	5670	20.18	22.18	
		142	5710	20.18	22.18	
	802.11ax-HE80 MCS0	106	5530	19.51	21.51	100.00
		122	5610	19.66	21.66	
		138	5690	19.46	21.46	

Reduced Power Level 2/3 for Product Specific

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.34	20.34	98.35
		6	2437	18.31	20.31	
		11	2462	18.17	20.17	
	802.11g 6Mbps	1	2412	16.63	18.63	99.31
		6	2437	16.42	18.42	
		11	2462	16.37	18.37	
	802.11n-HT20 MCS0	1	2412	16.23	18.23	100.00
		6	2437	16.16	18.16	
		11	2462	16.02	18.02	
	802.11n-HT40 MCS0	3	2422	15.68	17.68	100.00
		6	2437	15.66	17.66	
		9	2452	15.53	17.53	
	802.11ax-HE20 MCS0	1	2412	16.27	18.27	100.00
		6	2437	16.21	18.21	
		11	2462	16.12	18.12	
	802.11ax-HE40 MCS0	3	2422	16.34	18.34	100.00
		6	2437	16.36	18.36	
		9	2452	16.27	18.27	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	16.72	18.72	98.63
		40	5200	17.02	19.02	
		44	5220	16.73	18.73	
		48	5240	16.64	18.64	
	802.11n-HT20 MCS0	36	5180	16.41	18.41	100.00
		40	5200	16.71	18.71	
		44	5220	16.44	18.44	
		48	5240	16.34	18.34	
	802.11n-HT40 MCS0	38	5190	16.87	18.87	100.00
		46	5230	16.89	18.89	
	802.11ac-VHT20 MCS0	36	5180	16.40	18.40	100.00
		40	5200	16.70	18.70	
		44	5220	16.42	18.42	
		48	5240	16.33	18.33	
	802.11ac-VHT40 MCS0	38	5190	16.85	18.85	100.00
		46	5230	16.86	18.86	
	802.11ac-VHT80 MCS0	42	5210	15.99	17.99	100.00
	802.11ax-HE20 MCS0	36	5180	16.44	18.44	100.00
		40	5200	16.42	18.42	
		44	5220	16.45	18.45	
		48	5240	16.40	18.40	
	802.11ax-HE40 MCS0	38	5190	15.53	17.53	100.00
		46	5230	16.54	18.54	
	802.11ax-HE80 MCS0	42	5210	14.77	16.77	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	16.74	18.74	98.63
		56	5280	17.03	19.03	
		60	5300	16.60	18.60	
		64	5320	16.54	18.54	
	802.11n-HT20 MCS0	52	5260	16.45	18.45	100.00
		56	5280	16.60	18.60	
		60	5300	16.30	18.30	
		64	5320	16.24	18.24	
	802.11n-HT40 MCS0	54	5270	16.90	18.90	100.00
		62	5310	15.74	17.74	
	802.11ac-VHT20 MCS0	52	5260	16.43	18.43	100.00
		56	5280	16.58	18.58	
		60	5300	16.12	18.12	
		64	5320	16.21	18.21	
	802.11ac-VHT40 MCS0	54	5270	16.87	18.87	100.00
		62	5310	15.67	17.67	
	802.11ac-VHT80 MCS0	58	5290	15.01	17.01	100.00
	802.11ax-HE20 MCS0	52	5260	16.46	18.46	100.00
		56	5280	16.37	18.37	
		60	5300	16.35	18.35	
		64	5320	16.30	18.30	
	802.11ax-HE40 MCS0	54	5270	16.55	18.55	100.00
		62	5310	16.38	18.38	
	802.11ax-HE80 MCS0	58	5290	15.80	17.80	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	16.63	18.63	98.63
		116	5580	16.38	18.38	
		124	5620	16.60	18.60	
		132	5660	16.64	18.64	
		140	5700	16.35	18.35	
		144	5720	16.36	18.36	
	802.11n-HT20 MCS0	100	5500	16.33	18.33	100.00
		116	5580	16.09	18.09	
		124	5620	16.60	18.60	
		132	5660	16.63	18.63	
		140	5700	16.05	18.05	
		144	5720	16.03	18.03	
	802.11n-HT40 MCS0	102	5510	16.98	18.98	100.00
		110	5550	16.54	18.54	
		126	5630	16.97	18.97	
		134	5670	16.63	18.63	
		142	5710	16.50	18.50	
	802.11ac-VHT20 MCS0	100	5500	16.30	18.30	100.00
		116	5580	16.06	18.06	
		124	5620	16.58	18.58	
		132	5660	16.60	18.60	
		140	5700	16.03	18.03	
		144	5720	16.01	18.01	
	802.11ac-VHT40 MCS0	102	5510	16.77	18.77	100.00
		110	5550	16.53	18.53	
		126	5630	16.75	18.75	
		134	5670	16.61	18.61	
		142	5710	16.48	18.48	
	802.11ac-VHT80 MCS0	106	5530	15.65	17.65	100.00
		122	5610	15.79	17.79	
		138	5690	15.59	17.59	
	802.11ax-HE20 MCS0	100	5500	16.38	18.38	100.00
		116	5580	16.13	18.13	
		124	5620	16.10	18.10	
		132	5660	16.11	18.11	
		140	5700	16.12	18.12	
		144	5720	16.13	18.13	
	802.11ax-HE40 MCS0	102	5510	16.42	18.42	100.00
		110	5550	16.17	18.17	
		126	5630	16.16	18.16	
		134	5670	16.18	18.18	
		142	5710	16.18	18.18	
	802.11ax-HE80 MCS0	106	5530	15.51	17.51	100.00
		122	5610	15.66	17.66	
		138	5690	15.46	17.46	

Reduced Power Level 4 for Product Specific

2.4GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	15.34	17.34	98.35
		6	2437	15.31	17.31	
		11	2462	15.17	17.17	
	802.11g 6Mbps	1	2412	13.63	15.63	99.31
		6	2437	13.42	15.42	
		11	2462	13.37	15.37	
	802.11n-HT20 MCS0	1	2412	13.23	15.23	100.00
		6	2437	13.16	15.16	
		11	2462	13.02	15.02	
	802.11n-HT40 MCS0	3	2422	12.68	14.68	100.00
		6	2437	12.66	14.66	
		9	2452	12.53	14.53	
	802.11ax-HE20 MCS0	1	2412	13.27	15.27	100.00
		6	2437	13.21	15.21	
		11	2462	13.12	15.12	
	802.11ax-HE40 MCS0	3	2422	13.34	15.34	100.00
		6	2437	13.36	15.36	
		9	2452	13.27	15.27	

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	13.72	15.72	98.63
		40	5200	14.02	16.02	
		44	5220	13.73	15.73	
		48	5240	13.64	15.64	
	802.11n-HT20 MCS0	36	5180	13.41	15.41	100.00
		40	5200	13.71	15.71	
		44	5220	13.44	15.44	
		48	5240	13.34	15.34	
	802.11n-HT40 MCS0	38	5190	13.87	15.87	100.00
		46	5230	13.89	15.89	
	802.11ac-VHT20 MCS0	36	5180	13.40	15.40	100.00
		40	5200	13.70	15.70	
		44	5220	13.42	15.42	
		48	5240	13.33	15.33	
	802.11ac-VHT40 MCS0	38	5190	13.85	15.85	100.00
		46	5230	13.86	15.86	
	802.11ac-VHT80 MCS0	42	5210	12.99	14.99	100.00
	802.11ax-HE20 MCS0	36	5180	13.44	15.44	100.00
		40	5200	13.42	15.42	
		44	5220	13.45	15.45	
		48	5240	13.40	15.40	
	802.11ax-HE40 MCS0	38	5190	12.53	14.53	100.00
		46	5230	13.54	15.54	
	802.11ax-HE80 MCS0	42	5210	11.77	13.77	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	13.74	15.74	98.63
		56	5280	14.03	16.03	
		60	5300	13.60	15.60	
		64	5320	13.54	15.54	
	802.11n-HT20 MCS0	52	5260	13.45	15.45	100.00
		56	5280	13.60	15.60	
		60	5300	13.30	15.30	
		64	5320	13.24	15.24	
	802.11n-HT40 MCS0	54	5270	13.90	15.90	100.00
		62	5310	12.74	14.74	
	802.11ac-VHT20 MCS0	52	5260	13.43	15.43	100.00
		56	5280	13.58	15.58	
		60	5300	13.12	15.12	
		64	5320	13.21	15.21	
	802.11ac-VHT40 MCS0	54	5270	13.87	15.87	100.00
		62	5310	12.67	14.67	
	802.11ac-VHT80 MCS0	58	5290	12.01	14.01	100.00
	802.11ax-HE20 MCS0	52	5260	13.46	15.46	100.00
		56	5280	13.37	15.37	
		60	5300	13.35	15.35	
		64	5320	13.30	15.30	
	802.11ax-HE40 MCS0	54	5270	13.55	15.55	100.00
		62	5310	13.38	15.38	
	802.11ax-HE80 MCS0	58	5290	12.80	14.80	100.00

5GHz WLAN	Ant 1+2					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	13.63	15.63	98.63
		116	5580	13.38	15.38	
		124	5620	13.60	15.60	
		132	5660	13.64	15.64	
		140	5700	13.35	15.35	
		144	5720	13.36	15.36	
	802.11n-HT20 MCS0	100	5500	13.33	15.33	100.00
		116	5580	13.09	15.09	
		124	5620	13.60	15.60	
		132	5660	13.63	15.63	
		140	5700	13.05	15.05	
		144	5720	13.03	15.03	
	802.11n-HT40 MCS0	102	5510	13.98	15.98	100.00
		110	5550	13.54	15.54	
		126	5630	13.97	15.97	
		134	5670	13.63	15.63	
		142	5710	13.50	15.50	
	802.11ac-VHT20 MCS0	100	5500	13.30	15.30	100.00
		116	5580	13.06	15.06	
		124	5620	13.58	15.58	
		132	5660	13.60	15.60	
		140	5700	13.03	15.03	
		144	5720	13.01	15.01	
	802.11ac-VHT40 MCS0	102	5510	13.77	15.77	100.00
		110	5550	13.53	15.53	
		126	5630	13.75	15.75	
		134	5670	13.61	15.61	
		142	5710	13.48	15.48	
	802.11ac-VHT80 MCS0	106	5530	12.65	14.65	100.00
		122	5610	12.79	14.79	
		138	5690	12.59	14.59	
	802.11ax-HE20 MCS0	100	5500	13.38	15.38	100.00
		116	5580	13.13	15.13	
		124	5620	13.10	15.10	
		132	5660	13.11	15.11	
		140	5700	13.12	15.12	
		144	5720	13.13	15.13	
	802.11ax-HE40 MCS0	102	5510	13.42	15.42	100.00
		110	5550	13.17	15.17	
		126	5630	13.16	15.16	
		134	5670	13.18	15.18	
		142	5710	13.18	15.18	
	802.11ax-HE80 MCS0	106	5530	12.51	14.51	100.00
		122	5610	12.66	14.66	
		138	5690	12.46	14.46	

Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.

RF exposure position											Aperture 00							Aperture 01							Aperture 02							Aperture 03						
											Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)						
WWAN_Ant 0 Head	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132
	GSM850_UAT	GPRS(3 Ts slots)	Head Standalone	128	824.2	N/A	N/A	Left Cheek	0mm	0.762	0	0	0.058	0	0.044	0	0	0	0.166	0.296	0	0.2	0.108	0	0.056	0	0.148	0.096	0.087	0.123	0.06	0	0	0.094	0	0.061	0.047	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133
	CDMA2000 BC0_UAT	RC3+SO55	Head Standalone	1013	824.7	N/A	N/A	Left Cheek	0mm	0.702	0	0.015	0	0	0.038	0	0	0.011	0.109	0.316	0	0	0.045	0.063	0	0	0.121	0.086	0.067	0	0	0.052	0	0.062	0	0.054	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134
	CDMA2000 BC10_UAT	RC3+SO55	Head Standalone	580	820.5	N/A	N/A	Left Cheek	0mm	0.672	0	0	0.047	0	0.066	0	0	0	0.215	0.341	0	0.164	0.086	0	0.026	0	0.108	0.081	0.123	0	0.022	0	0	0.084	0	0.072	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135
	WCDMA V_UAT	RMC 12.2Kbps	Head Standalone	4132	826.4	N/A	N/A	Left Cheek	0mm	0.812	0	0	0.041	0	0.053	0	0	0.074	0.306	0.419	0.087	0.312	0.043	0.075	0.135	0.044	0.121	0.144	0.133	0	0.103	0.04	0	0.071	0.047	0.085	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136
	LTE Band 71_UAT	20M-QPSK	Head Standalone	133322	683	50	24	Left Cheek	0mm	0.765	0.148	0	0	0.173	0.085	0	0.144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.135	0.372	0	0.193	0.545	0.113	0.168
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137
	LTE Band 12_UAT	10M-QPSK	Head Standalone	23095	707.5	25	25	Left Cheek	0mm	0.876	0.064	0	0	0.077	0.056	0	0.06	0	0	0	0	0	0	0	0.053	0.165	0	0.069	0.357	0.159	0.056	0.469	0.13	0	0.568	0.24	0.046	0.513
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138
	LTE Band 13_UAT	10M-QPSK	Head Standalone	23230	782	25	25	Left Cheek	0mm	0.699	0	0	0	0.039	0.051	0	0	0.048	0.156	0	0.053	0.302	0.006	0.041	0.624	0.103	0	0.629	0.204	0.059	0.507	0.142	0	0	0.148	0.101	0	0.105
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139
	LTE Band 5_UAT	10M-QPSK	Head Standalone	20525	836.5	1	0	Left Cheek	0mm	0.673	0	0	0	0	0	0	0	0.132	0.267	0.066	0.137	0.322	0.09	0.113	0.121	0.041	0	0.135	0.107	0.04	0.089	0.052	0	0	0.053	0.065	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140
	LTE Band 26_UAT	15M-QPSK	Head Standalone	26865	831.5	36	20	Left Cheek	0mm	0.755	0	0	0	0	0	0	0	0.144	0.281	0.081	0.158	0	0.113	0.128	0.149	0.045	0	0.171	0.053	0	0.11	0.094	0	0	0.065	0	0.045	0.043
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141
	SA N71_Ant0	20M-PI/2 BPSK	Head Standalone	136100	680.5	1	53	Left Cheek	0mm	0.689	0.183	0	0	0.166	0.051	0	0.156	0	0	0	0	0	0	0	0	0	0	0.046	0	0.087	0	0.209	0.33	0.055	0.241	0	0.24	0.209
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142
	NS_Ant0	20M-PI/2 BPSK	Head Standalone	167300	836.5	1	53	Left Cheek	0mm	0.869	0	0	0	0	0	0.047	0	0.231	0	0.131	0.243	0.043	0.177	0.183	0.169	0	0	0.17	0.049	0.091	0.108	0.072	0	0	0.073	0	0.065	0.044
WWAN_Ant 0 Body	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143
	GSM850_UAT	GPRS(3 Ts slots)	Hotspot on	128	824.2	N/A	N/A	Left Side	10mm	0.408	0	0	0	0	0	0	0	0.094	0	0.06	0.1	0	0.082	0.105	0.111	0	0	0.09	0	0.055	0.066	0.042	0	0	0.039	0	0.039	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0
	CDMA2000 BC0_UAT	RC3+SO55	Hotspot on	1013	824.7	N/A	N/A	Left Side	10mm	0.577	0	0	0	0.036	0	0	0.022	0.13	0	0.085	0	0	0.056	0	0.102	0	0	0	0	0	0	0.085	0	0	0	0	0.052	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1
	CDMA2000 BC10_UAT	RC3+SO55	Hotspot on	580	820.5	N/A	N/A	Left Side	10mm	0.564	0.052	0	0	0	0	0	0	0.092	0	0	0	0	0.122	0	0.143	0.052	0	0	0	0.094	0	0	0.026	0.053	0	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	14	36	58	80	102	124	2	14	36	58	80	102	134	2	14	36	58	80	102	134	2	14	36	58	80	102	124	2
	WCDMA V_UAT	RMC 12.2Kbps	Hotspot on	4132	826.4	N/A	N/A	Left Side	10mm	0.489	0.042	0	0	0	0	0.074	0	0.29	0.174	0.17	0	0.096	0.287	0.082	0.23	0.073	0	0	0.066	0.157	0.094	0.103	0.055	0	0	0	0.108	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3
	LTE Band 71_UAT	20M-QPSK	Hotspot on	133322	683	50	24	Left Side	10mm	0.59	0.185	0	0	0	0.079	0.048	0.068	0	0	0	0	0	0	0	0.063	0.071	0	0	0	0.117	0	0.368	0.139	0.113	0	0.119	0.277	0.08
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4
	LTE Band 12_UAT	10M-QPSK	Hotspot on	23095	707.5	25	25	Left Side	10mm	0.556	0	0	0	0	0.04	0.041	0	0	0	0	0	0	0	0	0	0.213	0.047	0.107	0.047	0.255	0	0	0.086	0.041	0.223	0.352	0.151	0.309
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5
	LTE Band 13_UAT	10M-QPSK	Hotspot on	23230	782	1	25	Left Side	10mm	0.45	0	0	0	0	0	0	0	0	0.167	0	0.127	0	0.153	0	0	0.093	0	0.041	0.266	0.15	0.317	0	0.05	0	0	0.066	0.072	0.071
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6
	LTE Band 5_UAT	10M-QPSK	Hotspot on	20525	836.5	1	0	Left Side	10mm	0.426	0	0	0	0	0	0	0	0.052	0.127	0.104	0.07	0.077	0	0.08	0.05	0.131	0.103	0.07	0.078	0	0.065	0	0.042	0	0	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7
	LTE Band 26_UAT	15M-QPSK	Hotspot on	26765	821.5	36	20	Left Side	10mm	0.516	0	0	0	0	0	0	0	0.092	0.183	0.137	0.11	0.073	0	0.08	0	0.079	0	0.045	0.096	0	0.128	0	0	0	0	0	0	0.047
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8
	SA N71_Ant0	20M-PI/2 BPSK	Full Power	136100	680.5	100	0	Left Side	10mm	0.655	0	0.06	0	0	0.152	0.062	0.145	0	0	0	0	0	0	0	0	0.122	0	0.093	0.042	0	0	0.094	0.363	0	0.232	0.216	0.045	0.198
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9
	NS_Ant0	20M-PI/2 BPSK	Full Power	167300	836.5	50	28	Left Side	10mm	0.675	0	0.04	0	0	0	0	0	0.113	0.235	0	0.161	0.163	0.04	0.173	0	0.093	0	0.075	0.079	0	0.114	0	0.061	0	0.053	0	0	0.048

Aperture 04							Aperture 05							Aperture 06							Aperture 07							Aperture 08							Aperture 09						
Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)						
0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132
0	0	0.072	0	0.05	0	0	0	0	0.06	0	0.04	0	0	0	0.205	0.298	0	0.217	0.049	0	0	0.221	0.295	0	0.218	0.059	0	0.134	0.06	0.216	0.302	0.129	0.665	0.284	0.163	0	0.187	0.247	0.114	0.3	0.171
1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133
0	0	0.055	0	0.027	0	0	0	0.049	0.018	0	0.076	0	0	0	0.321	0.265	0	0.196	0.055	0	0	0.233	0.306	0	0.231	0.062	0	0.265	0.084	0.209	0.362	0.167	0.483	0.317	0.201	0	0.155	0.285	0.122	0	0.196
2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134
0	0	0.041	0	0.043	0	0	0	0.037	0	0	0.092	0	0	0	0.233	0.364	0	0.147	0.039	0	0	0.218	0.294	0	0.168	0	0	0.242	0	0.186	0.351	0.123	0.264	0.297	0.116	0.054	0.192	0.267	0.171	0.067	0.211
3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135
0	0	0.05	0	0.063	0	0	0	0.146	0.242	0	0.193	0.08	0	0	0.273	0.346	0	0.274	0.06	0	0	0.28	0.356	0.042	0.276	0.054	0	0.488	0.096	0.223	0.534	0.202	0	0.477	0.317	0.062	0.158	0.327	0.16	0	0.244
4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136
0.378	0.131	0	0.472	0.264	0	0.443	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137
0.315	0.052	0	0.343	0.124	0	0.268	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.099	0	0	0	0.049	0	0	0.148	0.062	0
6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138
0.07	0	0	0.073	0.072	0	0.052	0	0	0	0	0.108	0.091	0	0.058	0.114	0	0	0.013	0.055	0	0	0	0.211	0.057	0.014	0	0	0	0.118	0.025	0	0	0.079	0.063	0	0	0	0	0	0.096	0.022
7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139
0	0	0	0	0.052	0	0	0	0.166	0	0	0.232	0.126	0	0.06	0.284	0.046	0.061	0.301	0.108	0.048	0.071	0.29	0.053	0.072	0.311	0.104	0.055	0.572	0.096	0	0.577	0.2	0.059	0.46	0.298	0.064	0	0.293	0.151	0.049	0.2
8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140
0	0	0	0.041	0	0	0	0.044	0.188	0	0.047	0	0.141	0	0.074	0.333	0.063	0.079	0	0.147	0.061	0.087	0.33	0.072	0.093	0	0.144	0.074	0.664	0.113	0	0.661	0.119	0.088	0.543	0.353	0.074	0	0.351	0.077	0.074	0.24
9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141
0.469	0.131	0	0.505	0.075	0.103	0.463	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142
0.045	0	0	0.046	0	0.055	0	0.061	0.072	0.042	0.064	0	0.186	0.043	0.101	0.05	0.103	0.106	0	0.184	0.073	0.12	0.045	0.115	0.124	0	0.183	0.088	0.666	0	0	0.661	0.319	0.123	0.528	0.336	0	0	0.333	0.134	0.111	0.236
11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143
0	0	0	0	0	0	0	0	0.06	0	0	0	0.081	0	0	0.044	0	0	0	0.081	0.046	0.041	0.042	0	0.042	0	0.093	0	0.264	0	0	0.255	0.097	0.045	0.232	0.168	0	0	0.129	0.057	0	0.097
12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0
0	0	0	0	0	0	0	0	0.136	0	0.104	0	0.096	0	0	0.068	0.115	0	0	0.162	0	0	0.039	0	0.055	0	0	0	0.151	0.098	0	0	0.117	0.086	0.141	0	0	0	0	0	0	0.078
13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1
0.084	0	0	0	0.052	0.046	0	0	0	0	0.116	0	0.152	0	0.096	0.162	0.065	0	0	0.134	0.037	0.065	0	0	0.043	0	0.167	0	0	0	0	0.103	0.164	0.064	0.162	0	0	0.051	0.043	0	0	0.164
14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	134	2
0.07	0.045	0	0	0	0.093	0	0.093	0.237	0	0.085	0	0.258	0	0.154	0.213	0.146	0	0	0.285	0.04	0.179	0.205	0.155	0.053	0.064	0.293	0.047	0.46	0.106	0.047	0	0.385	0.222	0.398	0.394	0.087	0	0	0.162	0.184	0.203
15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3
0.434	0.059	0	0	0.269	0.135	0.225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.044	0	0	0	0	0	0
16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4
0	0.047	0	0	0.174	0.084	0.172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.072	0	0	0	0.084	0	0	0.104	0	0.046	0	0.125	0
17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5
0	0.04	0	0	0	0.05	0	0	0.071	0	0.054	0	0.058	0	0	0.107	0	0.09	0	0.088	0	0	0.115	0	0.095	0	0.097	0	0	0.188	0.139	0.088	0.099	0.282	0.093	0	0.139	0.07	0.063	0.199	0.219	0.176
18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6
0	0	0	0	0	0	0	0.049	0.129	0	0.094	0	0	0	0.081	0.139	0.081	0.082	0	0	0	0.072	0.137	0.094	0.078	0	0	0	0	0.087	0	0.044	0.263	0.058	0.311	0	0.071	0	0	0.118	0	0.154
19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7
0	0.049	0	0	0	0	0	0.046	0.143	0	0.122	0	0	0	0.09	0.172	0.08	0.124	0	0	0	0.092	0.171	0.07	0.117	0.041	0	0.043	0	0.121	0.044	0.057	0.351	0.076	0.373	0	0.1	0	0.055	0.202	0.071	0.233
20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8
0	0.176	0.06	0.099	0.414	0.129	0.399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.051	0	0	0	0	0
21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9
0	0.049	0	0.044	0	0	0	0.12	0.2	0	0.17	0	0	0.043	0.167	0.233	0	0.168	0.062	0	0.07	0.147	0.23	0	0.165	0.075	0	0.084	0	0.148	0.176	0.105	0.328	0.186	0.417	0	0.114	0.076	0.088	0.152	0.07	0.21

Aperture 10							Aperture 11							Aperture 12							Aperture 13							Aperture 14							Aperture 15						
Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)						
0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132
0	0	0.116	0.112	0.072	0.079	0	0	0.05	0.195	0	0.171	0	0	0	0.06	0.21	0	0.181	0	0	0	0.113	0.238	0	0.191	0	0	0	0.093	0.239	0.1	0.14	0.32	0.082	0	0	0.152	0	0.152	0	0
1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133
0	0	0.088	0.096	0.067	0	0	0	0.064	0.161	0	0.159	0	0	0	0.084	0.195	0	0.176	0	0	0	0.162	0.107	0	0.206	0	0	0	0.087	0.262	0.156	0.182	0	0	0	0	0.144	0	0.136	0	0
2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134
0	0	0.104	0.085	0	0	0	0	0.043	0.146	0	0.141	0	0	0	0	0.164	0	0	0	0	0	0.121	0.106	0	0.179	0	0	0	0	0.211	0.168	0.098	0	0.079	0	0	0	0.112	0.046	0
3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135
0.083	0	0.092	0.09	0.104	0	0.065	0	0.081	0.16	0	0.173	0.079	0	0	0.091	0.173	0	0.183	0.078	0	0	0.166	0.0254	0	0.232	0.074	0	0.186	0.157	0.3	0.217	0.24	0	0.198	0	0.056	0.119	0	0.139	0.066	0
4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137
0.084	0.278	0	0.114	0.412	0.13	0.092	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138
0	0	0	0.145	0.14	0.042	0.275	0	0	0	0	0.064	0.053	0	0	0	0	0	0.075	0.06	0	0	0.04	0	0	0.113	0.096	0	0.085	0.32	0.04	0	0.37	0.155	0.067	0	0	0	0	0.05	0	0
7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139
0.099	0	0	0.099	0.09	0	0.064	0	0.088	0	0	0.151	0.124	0	0	0.099	0	0	0.165	0.12	0	0	0.178	0	0	0.23	0.113	0	0.336	0.153	0	0.356	0.253	0.068	0.311	0	0.062	0	0	0.116	0.109	0
8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140
0.119	0.04	0	0.12	0	0.053	0.078	0	0.106	0	0	0	0.149	0	0	0.079	0	0	0	0.132	0	0.041	0.184	0	0.045	0	0.132	0	0.36	0.161	0	0.368	0	0.091	0.354	0	0.063	0	0	0	0.122	0
9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141
0.054	0.058	0	0.065	0	0.148	0.053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142
0.134	0	0	0.135	0	0.062	0.085	0.041	0.085	0	0.043	0	0.174	0	0.046	0.083	0	0.048	0	0.18	0	0.068	0.068	0.052	0.072	0	0.189	0.048	0.558	0	0.057	0.561	0.139	0.15	0.504	0	0.077	0	0	0	0.155	0
11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143
0.047	0	0	0.049	0	0	0	0	0.04	0	0	0	0.052	0	0	0.042	0	0	0	0.06	0	0	0.048	0	0	0	0.087	0	0.197	0	0	0.198	0.045	0.072	0.236	0	0.045	0	0	0	0.074	0
12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0
0	0	0	0.042	0.039	0	0.053	0	0	0	0	0	0.067	0	0	0.087	0	0	0	0.058	0	0.043	0.039	0	0	0	0	0	0.174	0.089	0	0	0.092	0.058	0.212	0	0	0	0	0	0	0
13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1
0.088	0	0	0	0	0.046	0	0	0	0	0.062	0	0.083	0	0	0.163	0	0	0	0.094	0	0	0.132	0	0	0	0.064	0	0.131	0	0.068	0.051	0	0.132	0.167	0	0	0	0	0	0.043	0
14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	134	2
0.168	0.06	0	0	0.06	0.132	0.064	0.053	0.2	0	0.08	0	0.188	0	0.059	0.206	0	0.079	0	0.199	0	0.069	0.213	0.066	0.071	0	0.234	0	0.452	0.129	0.085	0	0.248	0.249	0.211	0.041	0.176	0	0.059	0	0.158	0
15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3
0.119	0.12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4
0	0.169	0.089	0.086	0.084	0.263	0.058	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.48	0	0	0	0	0	0	0	0
17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5
0	0.074	0	0	0.182	0.111	0.207	0	0.05	0	0	0	0.041	0	0	0.052	0	0.039	0	0.043	0	0	0.076	0	0.058	0	0.081	0	0.041	0.205	0.08	0.12	0.044	0.246	0.043	0	0	0	0	0	0	0
18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6
0	0.031	0	0	0	0	0.052	0	0.103	0	0.089	0	0	0	0	0.108	0	0.09	0	0	0	0.055	0.127	0.04	0.091	0	0	0	0	0.103	0.048	0.052	0.206	0	0	0	0.086	0	0.079	0	0	0
19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7
0	0.063	0	0	0.063	0	0.086	0	0.106	0	0.103	0	0	0	0	0.114	0	0.106	0	0	0	0.05	0.149	0	0.12	0	0	0	0.046	0.15	0.091	0.082	0.19	0	0.197	0	0.087	0	0.088	0	0	0
20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8
0	0.182	0	0.153	0.051	0	0.043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9
0	0.077	0	0.064	0.058	0	0.083	0.065	0.154	0	0.142	0	0	0	0.072	0.157	0	0.144	0	0	0	0.125	0.201	0	0.16	0	0	0.043	0.054	0.178	0.087	0.119	0.342	0.116	0.372	0.04	0.121	0	0.123	0	0	0

RF exposure position											Aperture 00							Aperture 01							Aperture 02							Aperture 03						
											Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)						
WWAN_Ant 1 Head	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132
	GSM850_LAT	GPRS(3 Tx slots)	Full Power	251	848.8	N/A	N/A	Left Cheek	0mm	0.146	0.105	0.047	0	0	0	0	0	0	0	0	0	0	0	0	0.046	0.108	0	0.065	0	0	0	0.06	0	0	0	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133
	CDMA2000 BC0_LAT	RC3+SO55	Full Power	384	836.52	N/A	N/A	Left Cheek	0mm	0.174	0.104	0.064	0	0	0	0	0	0	0.103	0.066	0.138	0	0	0	0.062	0.128	0	0.093	0	0	0	0.079	0	0	0	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134
	CDMA2000 BC10_LAT	RC3+SO55	Full Power	684	823.1	N/A	N/A	Left Cheek	0mm	0.155	0.101	0.062	0	0	0	0	0	0	0.102	0.102	0.13	0	0	0	0.063	0.126	0	0.087	0	0	0	0.078	0	0	0	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135
	WCDMA V_LAT	RMC 12.2Kbps	Full Power	4233	846.6	N/A	N/A	Left Cheek	0mm	0.189	0.111	0.049	0	0	0	0	0	0.072	0.15	0.105	0.172	0	0	0	0.12	0.124	0.057	0.068	0	0	0	0.052	0	0	0	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136
	LTE Band 71_LAT	20M-QPSK	Full Power	133322	683	1	0	Left Cheek	0mm	0.113	0	0	0.086	0	0	0	0	0.036	0	0	0	0	0	0	0.081	0	0.045	0	0	0	0	0	0	0.048	0.043	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137
	LTE Band 12_LAT	10M-QPSK	Full Power	23095	707.5	1	49	Left Cheek	0mm	0.173	0	0	0.106	0.123	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0.05	0.054	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138
	LTE Band 13_LAT	10M-QPSK	Full Power	23230	782	1	25	Left Cheek	0mm	0.121	0.097	0.071	0.052	0	0	0	0	0.043	0	0.076	0	0	0	0	0.071	0	0.12	0	0	0	0	0.066	0.085	0	0	0	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139
	LTE Band 5_LAT	10M-QPSK	Full Power	20525	836.5	1	0	Left Cheek	0mm	0.152	0.08	0.095	0	0	0	0	0	0.095	0.068	0.149	0	0	0	0	0.138	0.127	0.079	0	0	0	0	0	0	0	0	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140
	LTE Band 26_LAT	15M-QPSK	Full Power	26965	841.5	1	0	Left Cheek	0mm	0.202	0.058	0.083	0	0	0	0	0	0.138	0.088	0.175	0	0	0	0	0.137	0.149	0.07	0	0	0	0	0	0	0	0	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141
	N71_Ant1	20M-PI2 BPSK	Full Power	136100	680.5	50	28	Left Cheek	0mm	0.084	0	0	0.048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.068	0	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142
	N5_Ant1	20M-PI2 BPSK	Full Power	167300	836.5	50	28	Left Cheek	0mm	0.129	0.071	0	0	0	0	0	0	0	0.098	0.047	0	0	0	0	0.066	0.083	0	0	0	0	0	0	0	0	0	0	0	0	0
WWAN_Ant 1 Body	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143
	GSM850_LAT	GPRS(3 Tx slots)	Full Power	189	836.4	N/A	N/A	Back	10mm	0.383	0.046	0	0.047	0	0	0	0	0.059	0	0.053	0	0	0	0	0.054	0	0.048	0	0	0	0	0.042	0	0.044	0	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0
	CDMA2000 BC0_LAT	RTAP 153.6Kbps	Full Power	384	836.52	N/A	N/A	Back	10mm	0.388	0.284	0.114	0.094	0	0	0	0.346	0.2	0.312	0.184	0.065	0	0	0.078	0.324	0.159	0.128	0	0	0	0.149	0.182	0.072	0.074	0	0	0	0.31
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1
	CDMA2000 BC10_LAT	RTAP 153.6Kbps	Full Power	684	823.1	N/A	N/A	Back	10mm	0.436	0.297	0.132	0.147	0	0	0	0.35	0.223	0.394	0.302	0.058	0.047	0.051	0.095	0.222	0.383	0.305	0.047	0	0.046	0.165	0.251	0.089	0.113	0	0	0	0.423
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2
	WCDMA V_LAT	RMC 12.2Kbps	Full Power	4132	826.4	N/A	N/A	Back	10mm	0.464	0.321	0.044	0.166	0	0	0	0.432	0.298	0.165	0.373	0.085	0.072	0.065	0.136	0.382	0.073	0.272	0.059	0.046	0.046	0.284	0.215	0	0.123	0	0	0	0.363
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3
	LTE Band 71_LAT	20M-QPSK	Full Power	133322	683	1	0	Back	10mm	0.403	0.134	0	0.07	0	0	0	0.292	0.339	0.074	0.259	0	0	0	0.201	0.216	0	0.126	0	0	0	0.266	0.11	0	0.056	0	0	0	0.285
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4
	LTE Band 12_LAT	10M-QPSK	Full Power	23095	707.5	1	49	Back	10mm	0.473	0.374	0.215	0.412	0	0	0	0.234	0.101	0.116	0.075	0	0	0	0.064	0.185	0.331	0.117	0	0	0	0.089	0.396	0.097	0.34	0	0.112	0	0.198
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5
	LTE Band 13_LAT	10M-QPSK	Full Power	23230	782	1	25	Back	10mm	0.427	0.241	0.125	0.189	0	0	0	0.358	0.261	0.338	0.227	0	0	0	0.125	0.38	0.252	0.389	0	0.101	0	0.215	0.161	0.08	0.11	0	0	0	0.37
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6
	LTE Band 5_LAT	10M-QPSK	Full Power	20525	836.5	1	0	Back	10mm	0.367	0.343	0.142	0.095	0	0	0	0.321	0.107	0.298	0.323	0	0.101	0	0.273	0.182	0.202	0.204	0	0.052	0	0.314	0.338	0.111	0.061	0	0	0	0.233
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7
	LTE Band 26_LAT	15M-QPSK	Full Power	26915	836.5	1	0	Back	10mm	0.362	0.276	0.093	0.041	0	0	0	0.204	0.08	0.201	0.106	0.045	0	0	0.163	0.15	0.067	0.063	0	0	0	0.251	0.251	0.089	0	0	0	0	0.128
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8
	N71_Ant1	20M-PI2 BPSK	Full Power	136100	680.5	50	28	Back	10mm	0.271	0	0.135	0.09	0	0.22	0	0.082	0	0	0	0	0	0	0	0	0.046	0.089	0	0	0	0	0	0.099	0	0	0	0	0.091
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9
	N5_Ant1	20M-PI2 BPSK	Full Power	167300	836.5	50	28	Back	10mm	0.28	0.271	0.112	0.127	0	0	0	0.276	0.17	0.258	0.207	0.067	0	0.054	0.091	0.274	0.164	0.169	0	0	0	0.163	0.196	0.08	0.095	0	0	0	0.276

Aperture 04							Aperture 05							Aperture 06							Aperture 07							Aperture 08							Aperture 09						
Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)						
0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132
0.052	0	0	0	0	0	0	0	0.044	0.091	0.068	0	0	0	0	0.104	0.058	0.07	0	0	0	0	0.1	0.058	0.07	0	0	0	0.064	0.058	0	0	0	0	0	0.068	0.044	0	0	0	0	0
1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133
0.074	0	0	0	0	0	0	0	0.067	0.121	0.098	0	0	0	0.05	0.123	0	0.114	0	0	0	0.05	0.123	0	0.115	0	0	0	0.081	0.092	0	0.053	0	0	0	0.086	0.077	0	0	0	0	0
2	24	46	68	90	112	134	2	24	46	0	22	44	66	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134
0.079	0	0	0	0	0	0	0	0.085	0.134	0.087	0	0	0	0	0.123	0	0.133	0	0	0	0.05	0.126	0	0.132	0	0	0	0.08	0.096	0	0	0	0	0	0.085	0.078	0	0	0	0	0
3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135
0.047	0	0	0	0	0	0	0.046	0.101	0.136	0.12	0	0	0	0.097	0.138	0.069	0.094	0	0	0	0.097	0.136	0.069	0.095	0	0	0	0.125	0.073	0	0	0	0	0	0.113	0.058	0	0	0	0	0
4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136
0.052	0	0.039	0.042	0	0	0	0	0	0	0	0	0	0	0.046	0	0.067	0	0	0	0	0.039	0	0.076	0	0	0	0	0.064	0	0.076	0	0	0	0	0	0	0.072	0	0	0	0
5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137
0.044	0	0.048	0.049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.081	0	0	0	0	0	0	0.086	0	0	0	0
6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138
0.062	0.083	0	0	0	0	0	0	0	0	0	0	0	0	0.055	0	0.105	0	0	0	0	0.054	0	0.106	0	0	0	0	0.084	0.046	0.092	0	0	0	0	0.087	0.052	0.076	0	0	0	0
7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139
0	0	0	0	0	0	0	0.063	0	0.112	0	0	0	0	0.12	0.098	0.111	0	0	0	0	0.118	0.097	0.112	0	0	0	0	0.114	0.123	0	0	0	0	0	0.095	0.105	0	0	0	0	0
8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140
0	0	0	0	0	0	0	0.089	0.052	0.12	0	0	0	0	0.142	0.122	0.116	0	0	0	0	0.145	0.121	.118	0	0	0	0	0.087	0.117	0.044	0	0	0	0	0.07	0.097	0	0	0	0	0
9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141
0	0	0.065	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142
0	0	0	0	0	0	0	0	0.058	0.092	0	0	0	0	0.056	0.092	0	0	0	0	0	0.054	0.094	0	0	0	0	0	0.073	0.048	0	0	0	0	0	0.07	0	0	0	0	0	0
11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143
0.042	0	0.046	0	0	0	0	0.067	0	0.056	0	0	0	0	0.053	0	0.051	0	0	0	0	0.053	0	0.051	0	0	0	0	0.047	0	0.045	0	0	0	0	0.043	0	0.043	0	0	0	0
12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0
0.173	0.057	0.075	0	0	0	0.374	0.125	0.264	0.224	0	0	0	0.052	0.269	0.187	0.14	0	0	0	0.112	0.27	0.187	0.14	0	0	0	0.11	0.31	0.108	0.104	0	0	0	0.235	0.285	0.094	0.096	0	0	0	0.275
13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1
0.241	0.086	0.11	0	0	0	0.416	0.133	0.245	0.235	0	0	0	0.085	0.274	0.168	0.247	0.071	0.054	0.068	0.13	0.276	0.317	0.248	0.071	0.085	0.069	0.132	0.38	0.172	0.168	0	0	0	0.25	0.368	0.151	0.156	0	0	0	0.29
14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2
0.295	0	0.119	0	0	0	0.401	0.177	0.298	0.296	0	0	0	0.088	0.372	0.097	0.313	0.09	0.078	0.073	0.189	0.371	0.097	0.313	0.092	0.083	0.082	0.187	0.362	0.053	0.202	0	0	0	0.346	0.338	0.049	0.183	0	0	0	0.391
15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3
0.105	0	0.055	0	0	0	0.285	0.316	0	0.339	0	0	0	0.14	0.271	0	0.182	0	0	0	0.231	0.272	0	0.184	0	0	0	0.23	0.175	0	0.098	0	0	0	0.27	0.166	0	0.091	0	0	0	0.272
16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4
0.388	0.091	0.318	0	0.099	0	0.203	0.052	0.058	0.047	0	0	0	0.085	0.128	0.187	0.104	0	0	0	0.073	0.126	0.179	0.102	0	0	0	0.073	0.243	0.394	0.266	0	0	0	0.104	0.267	0.384	0.306	0	0	0	0.11
17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5
0.158	0.079	0.106	0	0	0	0.372	0.151	0.225	0.108	0	0	0	0.079	0.33	0.304	0.338	0	0	0	0.164	0.328	0.307	0.336	0	0	0	0.164	0.326	0.167	0.311	0	0.098	0	0.274	0.292	0.148	0.262	0	0.072	0	0.29
18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6
0.341	0.109	0.061	0	0	0	0.222	0.071	0.309	0.253	0	0	0	0.163	0.146	0.233	0.274	0	0.08	0	0.296	0.145	0.233	0.271	0	0.079	0	0.29	0.285	0.161	0.127	0	0	0	0.311	0.323	0.155	0.109	0	0	0	0.313
19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7
0.243	0.176	0	0	0	0	0.122	0.053	0.16	0.156	0	0	0	0.094	0.116	0.162	0.074	0	0	0	0.212	0.116	0.112	0.075	0	0	0	0.214	0.212	0.103	0	0	0	0	0.234	0.233	0.055	0.045	0	0	0	0.215
20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8
0	0.098	0	0	0	0	0.088	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.061	0.089	0	0	0	0	0	0.069	0.09	0	0	0	0.048
21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9
0.188	0.078	0.095	0	0	0	0.269	0.102	0.225	0.196	0	0	0	0.057	0.218	0.219	0.175	0	0	0	0.123	0.217	0.183	0.175	0	0	0	0.119	0.269	0.113	0.142	0	0	0	0.234	0.251	0.276	0.128	0	0	0	0.257

Aperture 10							Aperture 11							Aperture 12							Aperture 13							Aperture 14							Aperture 15						
Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)							Average Value of Time Sweep (W/kg)						
0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132	0	22	44	66	88	110	132
0	0	0	0	0	0	0	0	0.062	0.112	0.072	0	0	0	0	0.061	0.111	0.068	0	0	0	0.049	0.066	0	0.05	0	0	0	0.063	0	0	0	0	0	0	0	0.082	0.081	0.071	0	0	0
1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133	1	23	45	67	89	111	133
0	0	0	0	0	0	0	0	0.083	0.086	0.121	0	0	0	0	0.068	0.08	0.122	0	0	0	0.067	0.101	0	0.066	0	0	0	0.086	0	0	0	0	0	0	0	0.106	0.051	0.122	0	0	0
2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134	2	24	46	68	90	112	134
0	0	0	0	0	0	0	0	0.081	0.115	0.094	0	0	0	0	0.084	0.096	0.101	0	0	0	0.067	0.103	0	0.075	0	0	0	0.088	0	0	0	0	0	0	0	0.101	0.082	0.123	0	0	0
3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135	3	25	47	69	91	113	135
0	0	0	0	0	0	0	0.057	0.125	0.117	0.153	0	0	0	0.061	0.126	0.111	0.153	0	0	0	0.113	0.085	0	0	0	0	0	0.071	0	0	0	0	0	0	0.076	0	0	0	0	0	0
4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136	4	26	48	70	92	114	136
0	0.043	0	0	0	0	0	0	0.043	0.045	0	0	0	0	0	0	0	0	0	0	0	0	0	0.062	0	0	0	0	0	0	0.069	0.066	0	0	0	0	0	0	0	0	0	0
5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137	5	27	49	71	93	115	137
0.051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.053	0	0	0	0	0	0	0.094	0.075	0	0	0	0	0	0	0	0	0	0
6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138	6	28	50	72	94	116	138
0	0.05	0	0	0	0	0	0	0	0.052	0	0	0	0	0	0	0.055	0	0	0	0	0.068	0	0.106	0	0	0	0	0.082	0.067	0	0	0	0	0	0	0	0.073	0	0	0	0
7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139	7	29	51	73	95	117	139
0	0	0	0	0	0	0	0.077	0.052	0.144	0	0	0	0	0.081	0.056	0.146	0	0	0	0	0.117	0.117	0.052	0	0	0	0	0.054	0.059	0	0	0	0	0	0.096	0.074	0.138	0	0	0	0
8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140	8	30	52	74	96	118	140
0	0	0	0	0	0	0	0.111	0.072	0.151	0	0	0	0	0.117	0.076	0.154	0	0	0	0	0.102	0.121	0.058	0	0	0	0	0	0.048	0	0	0	0	0	0.136	0.101	0.145	0	0	0	0
9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141	9	31	53	75	97	119	141
0	0.044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142	10	32	54	76	98	120	142
0	0	0	0	0	0	0	0	0.074	0.06	0	0	0	0	0	0.079	0.063	0	0	0	0	0.066	0.056	0	0	0	0	0	0.053	0	0	0	0	0	0	0.044	0.091	0	0	0	0	0
11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143	11	33	55	77	99	121	143
0	0	0.04	0	0	0	0	0.055	0	0.049	0	0	0	0	0.058	0	0.051	0	0	0	0	0.048	0	0.047	0	0	0	0	0.04	0	0.041	0	0	0	0	0.05	0	0.049	0	0	0	0
12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0	12	34	56	78	100	122	0
0.117	0.044	0.062	0	0	0	0.284	0.161	0.275	0.2	0.055	0	0	0.065	0.173	0.281	0.195	0.056	0	0	0.067	0.296	0.161	0.11	0	0	0	0.183	0.21	0.088	0.081	0	0	0	0.312	0.223	0.264	0.157	0	0	0	0.089
13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1	13	35	57	79	101	123	1
0.163	0	0	0	0	0	0.398	0.381	0.172	0.169	0	0	0	0.25	0.18	0.33	0.294	0	0	0	0.082	0.342	0.198	0.183	0	0	0	0.188	0.297	0.107	0.127	0	0	0	0.403	0.234	0.338	0.272	0.06	0	0	0.102
14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2	14	36	58	80	102	124	2
0.143	0	0.091	0	0	0	0.319	0.229	0.215	0.339	0.046	0	0	0.108	0.242	0.199	0.342	0.051	0.043	0.041	0.114	0.359	0.078	0.219	0	0	0	0.265	0.256	0	0.142	0	0	0	0.356	0.305	0.131	0.335	0.086	0.078	0.073	0.114
15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3	15	37	59	81	103	125	3
0.089	0	0.046	0	0	0	0.271	0.337	0	0.317	0	0	0	0.158	0.34	0.032	0.311	0	0	0	0.162	0.22	0.043	0.135	0	0	0	0.248	0.14	0	0.075	0	0	0	0.274	0.334	0	0.274	0	0	0	0.181
16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4	16	38	60	82	104	126	4
0.284	0.052	0.168	0	0	0	0.296	0.075	0.07	0.054	0	0	0	0.054	0.077	0.072	0.055	0	0	0	0.056	0.164	0.274	0.152	0	0	0	0.086	0.325	0.234	0.408	0	0.066	0	0.135	0.091	0.097	0.067	0	0	0	0.061
17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5	17	39	61	83	105	127	5
0.112	0.063	0.072	0	0	0	0.286	0.193	0.277	0.146	0	0	0	0.098	0.202	0.285	0.157	0	0	0	0.103	0.338	0.214	0.351	0	0.089	0	0.214	0.207	0.102	0.16	0	0	0	0.329	0.252	0.308	0.219	0	0	0	0.124
18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6	18	40	62	84	106	128	6
0.287	0.089	0.043	0	0	0	0.147	0.087	0.304	0.322	0	0.055	0	0.211	0.092	0.305	0.325	0	0.063	0	0.227	0.216	0.175	0.151	0	0	0	0.31	0.323	0.124	0.074	0	0	0	0.276	0.115	0.263	0.303	0	0.091	0	0.291
19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7	19	41	63	85	107	129	7
0.16	0.189	0	0	0	0	0.083	0.066	0.189	0.125	0	0	0	0.123	0.07	0.19	0.119	0	0	0	0.131	0.164	0.122	0.052	0	0	0	0.222	0.253	0.082	0	0	0	0	0.158	0.089	0.175	0.089	0	0	0	0.168
20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8	20	42	64	86	108	130	8
0.045	0.048	0	0	0	0	0.074	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.054	0	0	0	0	0	0.084	0.083	0	0	0	0.059	0	0	0	0	0	0	0
21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9	21	43	65	87	109	131	9
0.122	0.057	0.071	0	0	0	0.219	0.127	0.239	0.197	0	0	0	0.07	0.132	0.233	0.197	0	0	0	0.073	0.254	0.134	0.142	0	0	0	0.183	0.213	0.087	0.104	0	0	0	0.272	0.172	0.208	0.183	0.046	0	0	0.093

RF exposure position											Aperture 00					
											Average Value of Time Sweep (W/kg)					
WWAN_Ant 3 Head	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	0	24	48	72	96	120
	GSM1900_LAT	GPRS(3 Tx slots)	Full Power	661	1880	N/A	N/A	Right Cheek	0mm	0.107	0	0	0.044	0.043	0.044	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	25	49	73	97	121
	CDMA2000 BC1_LAT	RC3+SO55	Full Power	1175	1908.75	N/A	N/A	Right Cheek	0mm	0.176	0.043	0.1	0.062	0.097	0.107	0.088
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	26	50	74	98	122
	WCDMA II_LAT	RMC 12.2Kbps	Full Power	9538	1907.6	N/A	N/A	Right Cheek	0mm	0.245	0.065	0.129	0.094	0.13	0.065	0.118
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	27	51	75	99	123
	WCDMA IV_LAT	RMC 12.2Kbps	Full Power	1513	1752.6	N/A	N/A	Left Cheek	0mm	0.381	0.145	0.215	0.239	0.141	0.213	0.193
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	28	52	76	100	124
	LTE Band 25_LAT	QPSK	Full Power	26590	1905	1	0	Left Cheek	0mm	0.209	0.133	0.202	0.195	0.199	0.171	0.208
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	29	53	77	101	125
	LTE Band 66_LAT	QPSK	Full Power	132572	1770	1	0	Left Cheek	0mm	0.262	0.163	0.144	0.2	0.108	0.204	0.186
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	30	54	78	102	126
	LTE Band 7_LAT	QPSK	Full Power	21100	2535	1	99	Right Cheek	0mm	0.314	0.143	0.111	0.118	0.166	0.134	0.144
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	31	55	79	103	127
	LTE Band 41_LAT	QPSK	Full Power	40185	2549.5	1	49	Right Cheek	0mm	0.183	0.088	0.076	0.071	0.103	0.082	0.091
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	8	32	56	80	104	128
	N2_Ant3	PI/2 BPSK	Full Power	380000	1900	50	28	Left Cheek	0mm	0.180	0.115	0.179	0.129	0.148	0.077	0.178
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	9	33	57	81	105	129
	N25_Ant3	PI/2 BPSK	Full Power	381000	1905	50	28	Left Cheek	0mm	0.195	0.191	0.186	0.192	0.117	0.189	0.145
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	10	34	58	82	106	130
	N66_Ant3	PI/2 BPSK	Full Power	344000	1720	1	53	Left Cheek	0mm	0.193	0.125	0.112	0.181	0.134	0.19	0.189
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	11	35	59	83	107	131
	N41_Ant3	PI/2 BPSK	Full Power	509202	2546.01	1	1	Right Cheek	0mm	0.262	0	0	0	0	0	0
WWAN _Ant 3 Body	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	12	36	60	84	108	132
	GSM1900_LAT	GPRS(3 Tx slots)	Hotspot on	661	1880	N/A	N/A	Bottom Side	10mm	0.394	0.345	0.366	0.362	0.351	0.19	0.379
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	13	37	61	85	109	133
	CDMA2000 BC1_LAT	RTAP 153.6Kbps	Hotspot on	1175	1908.75	N/A	N/A	Bottom Side	10mm	0.642	0.549	0.575	0.613	0.551	0.463	0.621
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	14	38	62	86	110	134
	WCDMA II_LAT	RMC 12.2Kbps	Hotspot on	9538	1907.6	N/A	N/A	Bottom Side	10mm	0.447	0.42	0.391	0.441	0.394	0.375	0.43
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	15	39	63	87	111	135
	WCDMA IV_LAT	RMC 12.2Kbps	Hotspot on	1312	1712.4	N/A	N/A	Bottom Side	10mm	0.496	0.434	0.338	0.362	0.423	0.222	0.303
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	16	40	64	88	112	136
	LTE Band 25_LAT	20M-QPSK	Hotspot on	26590	1905	1	0	Bottom Side	10mm	0.471	0.453	0.278	0.439	0.292	0.423	0.429
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	17	41	65	89	113	137
	LTE Band 66_LAT	20M-QPSK	Hotspot on	132072	1720	1	0	Bottom Side	10mm	0.431	0.414	0.31	0.348	0.382	0.213	0.276
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	18	42	66	90	114	138
	LTE Band 7_LAT	20M-QPSK	Hotspot on	21350	2560	50	24	Back	10mm	0.416	0.365	0.371	0.412	0.345	0.38	0.359
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	19	43	67	91	115	139
	LTE Band 41_LAT	20M-QPSK	Hotspot on	41055	2636.5	50	50	Back	10mm	0.453	0.238	0.31	0.241	0.335	0.247	0.317
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	20	44	68	92	116	140
	N2_Ant3	PI/2 BPSK	Hotspot on	380000	1900	50	28	Bottom Side	10mm	0.833	0.393	0.546	0.689	0.646	0.726	0.74
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	21	45	69	93	117	141
	N25_Ant3	PI/2 BPSK	Hotspot on	381000	1905	1	53	Bottom Side	10mm	0.788	0.532	0.583	0.398	0.636	0.445	0.608
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	22	46	70	94	118	142
	N66_Ant3	PI/2 BPSK	Hotspot on	344000	1720	50	28	Bottom Side	10mm	0.701	0.35	0.615	0.193	0.559	0.475	0.429
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	23	47	71	95	119	143
	N41_Ant3	PI/2 BPSK	Hotspot on	518598	2592.99	135	69	Back	10mm	0.465	0.244	0.2	0.153	0.199	0.243	0.18

RF exposure position											Aperture 00						
											Average Value of Time Sweep (W/kg)						
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	0	21	42	63	84	105	126
WWAN_Ant 3 Head	LTE Band 30_LAT	QPSK	Full Power	27710	2310	1	0	Left Cheek	0mm	0.175	0.071	0.147	0.166	0.052	0.147	0.14	0.076
											1	22	43	64	85	106	127
											0.107	0.159	0.162	0.083	0.156	0.137	0.112
											2	23	44	65	86	107	128
											0.134	0.17	0.166	0.108	0.165	0.13	0.138
											3	24	45	66	87	108	129
											0.154	0.168	0.074	0.122	0.166	0.095	0.147
											4	25	46	67	88	109	130
											0.162	0.166	0.112	0.129	0.162	0.132	0.15
											5	26	47	68	89	110	131
											0.171	0.158	0.139	0.133	0.155	0.154	0.148
											6	27	48	69	90	111	132
											0.168	0.042	0.153	0.132	0.076	0.166	0.145
											7	28	49	70	91	112	133
											0.169	0.071	0.16	0.129	0.095	0.168	0.142
											8	29	50	71	92	113	134
											0.164	0.1	0.162	0.123	0.124	0.167	0.133
											9	30	51	72	93	114	135
											0.067	0.122	0.159	0.073	0.144	0.163	0.055
											10	31	52	73	94	115	136
											0.107	0.134	0.156	0.114	0.153	0.162	0.086
											11	32	53	74	95	116	137
											0.14	0.152	0.148	0.141	0.161	0.157	0.109
											12	33	54	75	96	117	138
											0.162	0.153	0.074	0.159	0.16	0.077	0.121
											13	34	55	76	97	118	139
											0.165	0.152	0.111	0.166	0.156	0.116	0.124
											14	35	56	77	98	119	140
											0.171	0.145	0.138	0.171	0.147	0.139	0.125
											15	36	57	78	99	120	141
											0.169	0.095	0.152	0.168	0.042	0.152	0.122
											16	37	58	79	100	121	142
											0.172	0.093	0.155	0.173	0.089	0.156	0.117
											17	38	59	80	101	122	143
											0.149	0.158	0.156	0.167	0.096	0.155	0.111
											18	39	60	81	102	123	
											0.059	0.172	0.153	0.06	0.114	0.151	
											19	40	61	82	103	124	
											0.095	0.161	0.151	0.096	0.125	0.146	
											20	41	62	83	104	125	
											0.126	0.168	0.142	0.127	0.138	0.135	

	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	0	21	42	63	84	105	126
WWAN _Ant 3 Body	LTE Band 30_LAT	QPSK	Hotspot on	27710	2310	25	12	Back	10mm	0.29	0.041	0.204	0.273	0.011	0.214	0.219	0.057
											1	22	43	64	85	106	127
											0.128	0.226	0.261	0.093	0.207	0.217	0.154
											2	23	44	65	86	107	128
											0.131	0.258	0.24	0.151	0.26	0.196	0.21
											3	24	45	66	87	108	129
											0.138	0.259	0.036	0.184	0.262	0.077	0.239
											4	25	46	67	88	109	130
											0.282	0.251	0.128	0.197	0.251	0.168	0.242
											5	26	47	68	89	110	131
											0.276	0.241	0.19	0.204	0.244	0.224	0.235
											6	27	48	69	90	111	132
											0.271	0.025	0.227	0.201	0.021	0.252	0.225
											7	28	49	70	91	112	133
											0.28	0.054	0.24	0.186	0.109	0.265	0.217
											8	29	50	71	92	113	134
											0.273	0.118	0.245	0.163	0.168	0.278	0.192
											9	30	51	72	93	114	135
											0.036	0.173	0.243	0.048	0.208	0.265	0.014
											10	31	52	73	94	115	136
											0.13	0.191	0.233	0.037	0.234	0.264	0.1
											11	32	53	74	95	116	137
											0.142	0.224	0.214	0.183	0.261	0.247	0.161
											12	33	54	75	96	117	138
											0.208	0.222	0.04	0.23	0.235	0.057	0.191
											13	34	55	76	97	118	139
											0.226	0.21	0.132	0.244	0.252	0.146	0.204
											14	35	56	77	98	119	140
											0.258	0.199	0.195	0.267	0.233	0.208	0.168
											15	36	57	78	99	120	141
											0.261	0.063	0.231	0.279	0.023	0.239	0.186
											16	37	58	79	100	121	142
											0.257	0.15	0.237	0.268	0.065	0.244	0.174
											17	38	59	80	101	122	143
											0.241	0.216	0.242	0.267	0.126	0.245	0.148
											18	39	60	81	102	123	
											0.011	0.239	0.237	0.019	0.17	0.236	
											19	40	61	82	103	124	
											0.089	0.254	0.223	0.128	0.2	0.225	
											20	41	62	83	104	125	
											0.161	0.272	0.214	0.166	0.215	0.208	