SAR
TEST REPORT

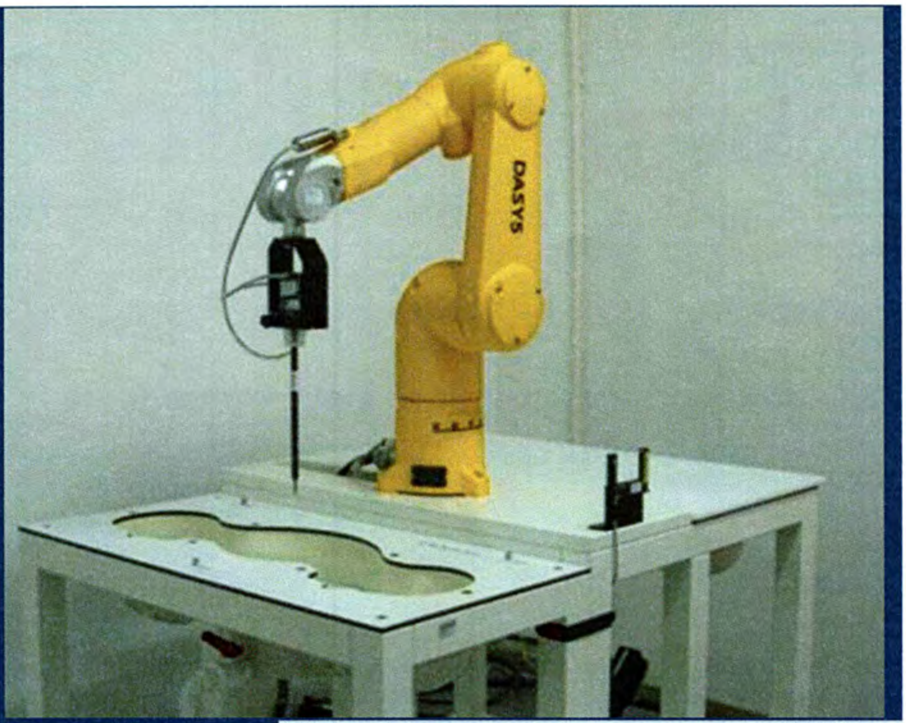
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.

FOR

Mobile Phone

ISSUED TO
vivo Mobile Communication Co., Ltd.

No.168 Jinghai East Rd., Chang'an, Dongguan, Guangdong, China



Report No.:	BL-SZ2170620-701
EUT Name:	Mobile Phone
Model Name:	V2110
Brand Name:	vivo
FCC ID:	2AUCY-V2110
Test Standard:	47 CFR Part 2.1093 ANSI C95.1-1992, IEEE Std. 1528-2013
Maximum SAR:	Head (1 g): 1.00 W/kg Body (1 g): 0.98 W/kg Hotspot (1 g): 0.85 W/kg Specific (10 g): 2.98 W/kg
Test Conclusion:	Pass
Test Date:	Jul. 20, 2021 ~ Aug. 10, 2021
Date of Issue:	Aug. 18, 2021

Tested by: Zhang Jiwei
Zhang Jiwei
Date Aug.18.2021

Approved by:
Liao Jianming
(Technical Director)
Date Aug.18.2021

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Revision History

Version	Issue Date	Revisions Content
Rev. 01	Aug. 18, 2021	Initial Issue

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Test Environment Condition

Ambient Temperature	20℃ to 24℃
Ambient Relative Humidity	35% to 48%
Ambient Pressure	100 KPa to 102 KPa

1.4 Announce

(1) The test report reference to the report template version v2.2.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.

(5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.

(6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	vivo Mobile Communication Co., Ltd.
Address	No.168 Jinghai East Rd., Chang'an, Dongguan, Guangdong, China

2.2 Manufacturer Information

Manufacturer	vivo Mobile Communication Co., Ltd.
Address	No.168 Jinghai East Rd., Chang'an, Dongguan, Guangdong, China

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	V2110
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	MP_0.1
Software Version	PD2138GF_EX_A_3.6.11
Dimensions (Approx.)	164.26*76.08*8.0mm
Weight (Approx.)	180g

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	vivo
	Model No.	B-S2
	Serial No.	N/A
	Capacity	Minimal Capacity: 4910mAh Typical capacity: 5000mAh
	Rated Voltage	3.87 V
	Limit Charge Voltage	4.45 V
	Manufacturer	Huizhou Desay Battery Co., Ltd
Ancillary Equipment 2	Earphone	
	Model No.	XE160
	Length (Approx.)	1 m

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EGPRS 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/17/66 TDD LTE Band 38/41 LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, GPS, GLONASS, BDS, Galileo, FM Receiver
Note : The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA and LTE, and both SIM share the same transmitting electro circuit, NV parameters, so only SIM1 was tested in this report.	

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, WCDMA, LTE, WLAN, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	802.11b/g	2412 ~ 2462 MHz	
	802.11n(HT20)	2412 ~ 2462 MHz	
	802.11a	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	802.11n(HT20/HT40)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	802.11 ac(VHT20/VHT40/ VHT80)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	Bluetooth	2402 ~ 2480 MHz	

Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna	
DTM	Not Support	
Hotspot Function	Support	
Power Reduction	Support	
Exposure Category	General Population/Uncontrolled exposure	
EUT Stage	Portable Device	
Product	Type	
	☒ Production unit	☐ Identical prototype
Note: 1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for held-to-ear exposure conditions. 2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for near to body exposure conditions. 3. The reduction power details please refer section 8.7.		

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	FCC KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	FCC KDB 941225 D06 v02r01	SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities
8	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
9	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	KDB 248227 D01 v02r02	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ ControlledExposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

3.3 Test Result Summary

3.3.1 Highest SAR (1 g Value)

Band	Maximum Scaled SAR (W/kg)			Maximum Report SAR (W/kg)		
	Head	Body-worn Accessory	Hotspot	Head	Body-worn Accessory	Hotspot
GSM 850	**1.00**	0.44	0.72	**1.00**	**0.98**	**0.85**
GSM 1900	0.67	0.64	0.75			
WCDMA Band 2	0.88	**0.98**	0.80			
WCDMA Band 4	0.85	0.63	0.75			
WCDMA Band 5	0.73	0.23	0.46			
LTE Band 2	0.89	0.79	0.71			
LTE Band 4	0.59	0.52	**0.85**			
LTE Band 5	0.78	0.29	0.48			
LTE Band 7	0.54	0.40	0.47			
LTE Band 12	0.48	0.34	0.46			
LTE Band 66	0.76	0.44	0.84			
LTE Band 38	0.71	0.32	0.61			
LTE Band 41	0.67	0.33	0.48			
2.4G WLAN	0.54	0.19	0.40			
5.2G WLAN	/	/	0.49			
5.3G WLAN	0.62	0.58	/			
5.6G WLAN	0.65	0.69	/			
5.8G WLAN	0.65	0.44	0.74			
Bluetooth	0.14	0.02	0.05			
Limit (W/kg)	1.6			1.6		
Verdict	PASS					

Note: This device supports both LTE Band 17 and Band 12. Since the supported frequency span for LTE Band 17 falls completely within the supports frequency span for LTE Band 12, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE Band 12.

3.3.2 Highest Specific SAR (10 g Value)

Band	Maximum Scaled SAR (W/kg)		Maximum Report SAR (W/kg)	
	Specific	P-Sensor off Note3	Specific	P-Sensor off Note3
GSM 1900	1.11	0.76	**2.98**	**0.95**
WCDMA Band 2	2.45	0.81		
WCDMA Band 4	1.52	**0.95**		
LTE Band 2	2.34	0.81		
LTE Band 4	2.74	0.75		
LTE Band 7	/	0.39		
LTE Band 66	2.22	0.61		
LTE Band 38	/	0.26		
LTE Band 41	/	0.26		
5.3G WLAN	**2.98**	/		
5.6G WLAN	2.93	/		
5.8G WLAN	2.28	/		
Limit (W/kg)	4.0		4.0	
Verdict	Pass			

Note:

1. This device uses the P-Sensor off to detect WWAN 2G/3G/4G handheld state, So the P-Sensor off SAR limit is 4.0 W/kg as averaged over any 10 gram of tissue.
2. When these extremity state are detected, GSM1900(Ant.13),WCDMA Band2/4(Ant.13&Ant.31),FDD-LTE Band2/4/7/66(Ant.13&Ant.31),TDD-LTE Band38/41(Ant.13) reduced power will be active.
3. P-Sensor off was SAR test with EUT transmitting at full RF power at a separation of “the triggering distance(n) - 1 mm”.
4. The procedures for determining proximity sensor details please refer section 10.

3.3.3 Highest Simultaneous SAR

Position	Simultaneous Configuration	Simultaneous SAR (W/kg)	Limit (W/kg)	Verdict
Head (1g)	GSM 850 + 5G WIFI + Bluetooth	1.393	1.6	Pass
Body-worn Accessory (1g)	LTE B66 + 5G WIFI + Bluetooth	0.948	1.6	Pass
Hotspot (1g)	LTE B66 + 5G WIFI + Bluetooth	1.361	1.6	Pass
Specific (10g)	WCDMA B2 + 5G WIFI	1.873	4.0	Pass

3.4 Test Uncertainty

According to KDB 865664 D01, When the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 0.996 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.
The maximum 10 g SAR for the EUT in this report is 2.978 W/kg, which is lower than 3.75 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person’s awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$\mathbf{SAR} = \frac{d}{dt}\left(\frac{dW}{dm}\right) = \frac{d}{dt}\left(\frac{dW}{\rho dv}\right)$$

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

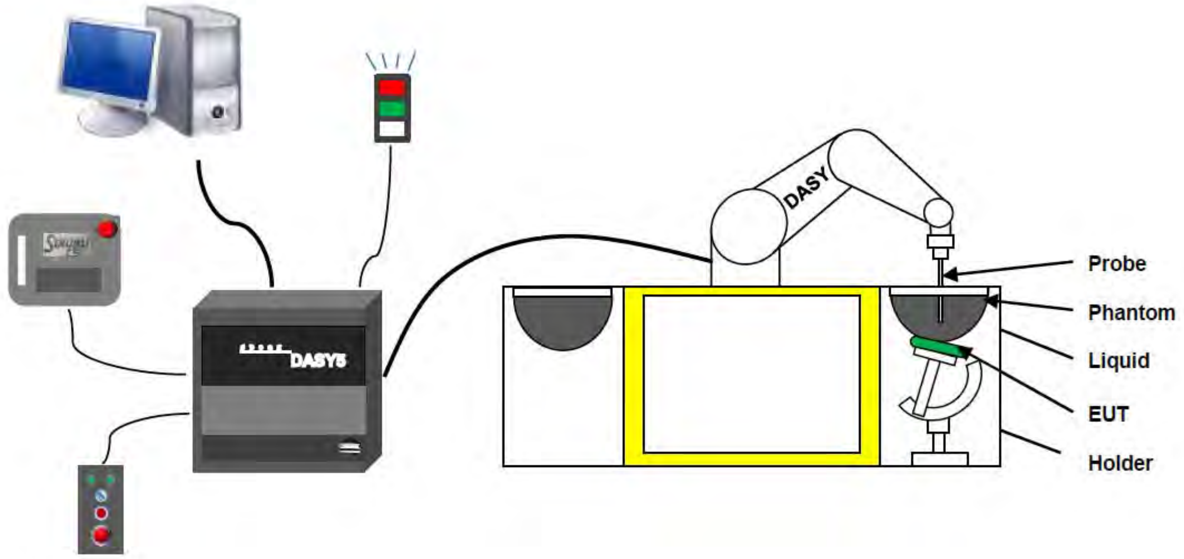
$$\mathbf{SAR} = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



The DASY5 system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY5 software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

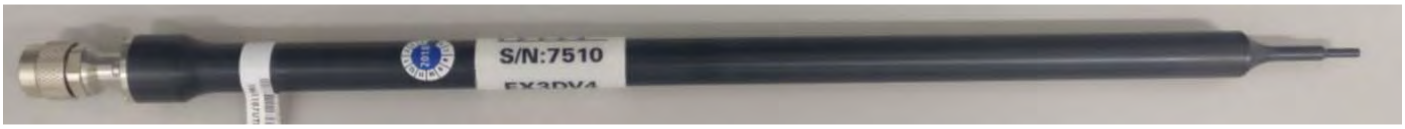
The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:

- High precision
  (repeatability ±0.02 mm)
- High reliability
  (industrial design)
- Low maintenance costs
  (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
  (brush less synchron motors; no stepper motors)
- Low ELF interference
  (motor control _elds shielded via the closed metallic construction shields)

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4-SN:7510 with following specifications is used.

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection systemBuilt-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μW/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)

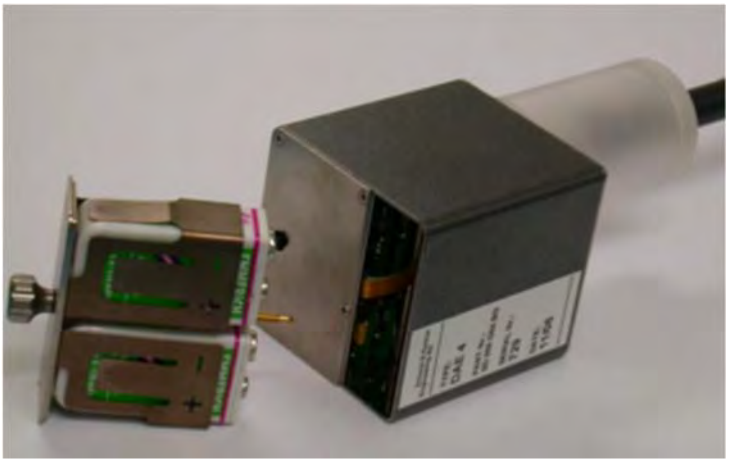


E-Field Probe Calibration Process

Probe calibration is realized, in compliance with CENELEC EN 62209-1/-2 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1/2 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.



- Input Impedance: 200MOhm
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB

4.2.5 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

- Left hand
- Right hand
- Flat phantom

Photo of Phantom SN1857

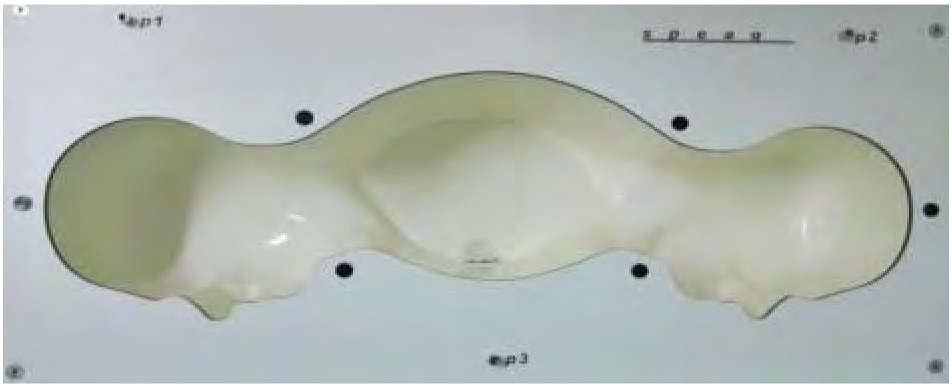
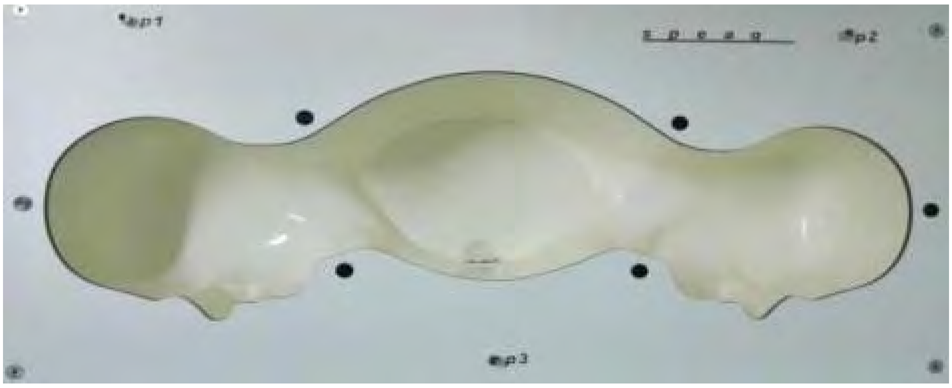


Photo of Phantom SN1859



Serial Number	Material	Length	Height
SN 1857 SAM1	Vinylester, glass fiber reinforced	1000	500
SN 1859 SAM2	Vinylester, glass fiber reinforced	1000	500

4.2.6 Device Holder

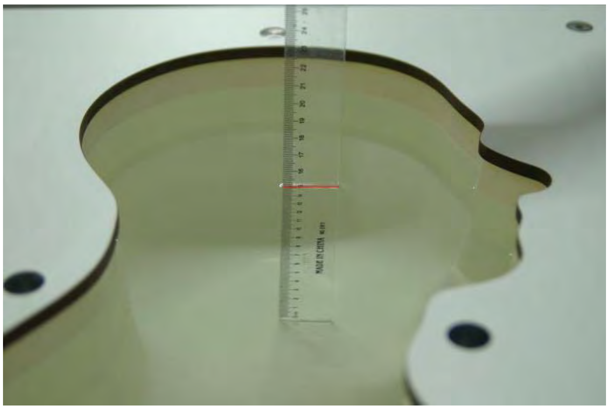
The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA‟s only. If necessary an additional support of polystyrene material is used. Larger DUT‟s (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.

The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1°.

4.2.7 Simulating Liquid

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.

Head Liquid Depth



Body Liquid Depth

The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ε
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity σ (S/m)	Permittivity ε
5200	78.60	21.40			/		5.54	47.86
5800	78.50	21.40			0.1		6.0	48.20

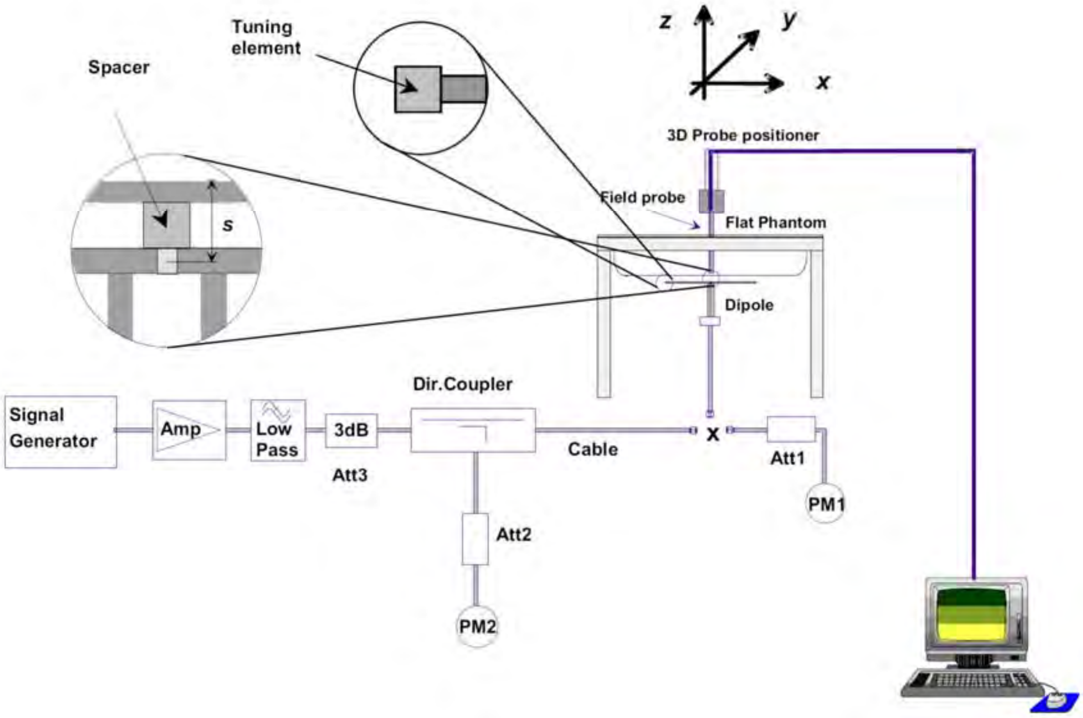
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source.This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.2 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:


Tuning element
Spacer
z
y
x
3D Probe positioner
s
Field probe
Flat Phantom
Dipole
Dir.Coupler
Signal Generator
Amp
Low Pass
3dB
Att3
Cable
x
Att1
PM1
Att2
PM2

6 TEST POSITION CONFIGURATIONS

According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

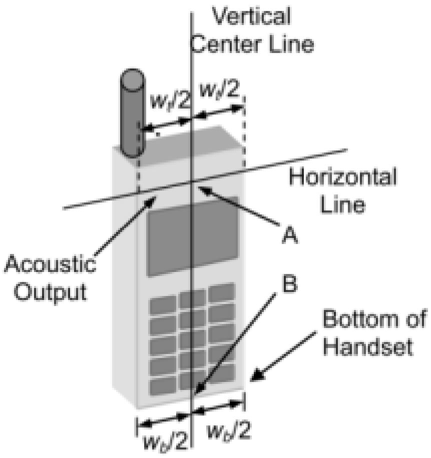
Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

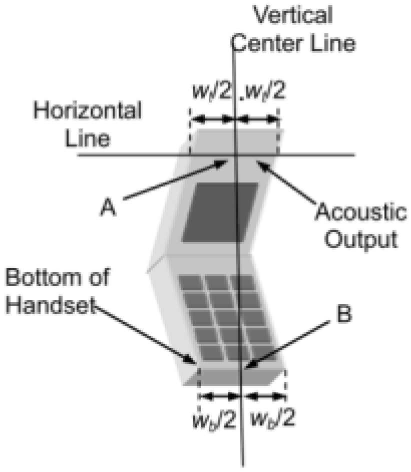
6.1.1 Two Imaginary Lines on the Handset

(a) The vertical center line passes through two points on the front side of the handset - the midpoint of the width w t of the handset at the level of the acoustic output, and the midpoint of the width w b of the bottom of the handset.

(b) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.

(c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.

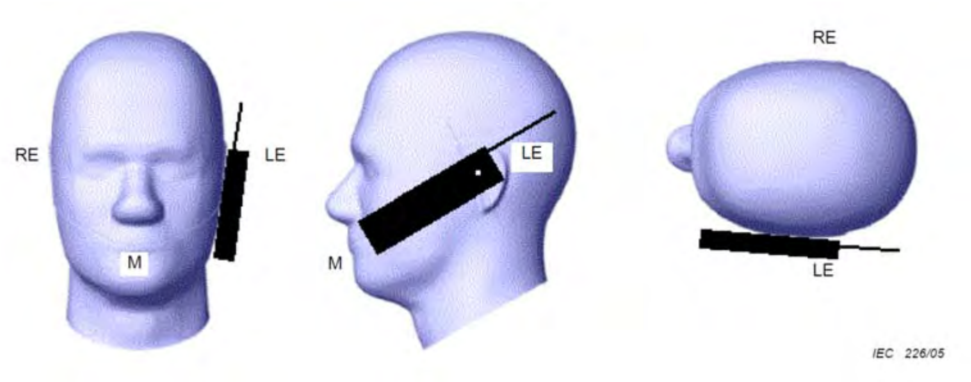




6.1.2 Cheek Position

(a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

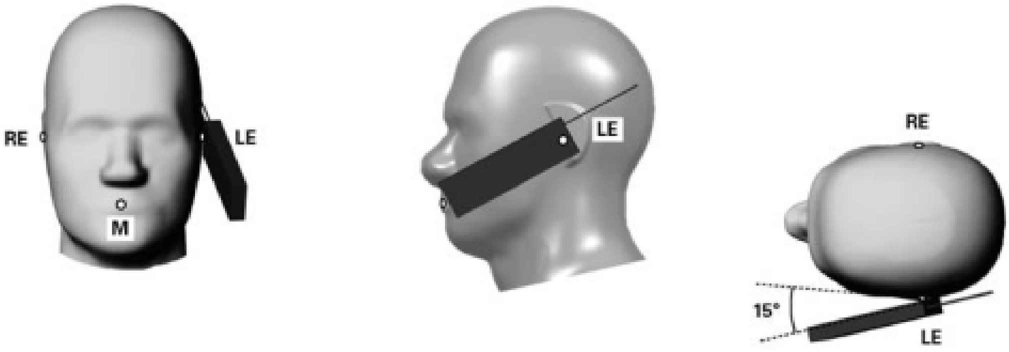
(b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.


RE
LE
M
LE
M
RE
LE
IEC 226/05

6.1.3 Tilted Position

(a) To position the device in the “cheek” position described above.

(b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

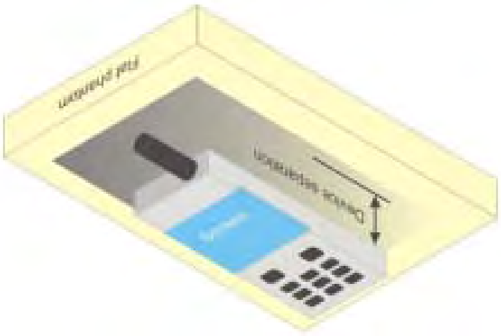

RE
LE
M
LE
RE
15°
LE

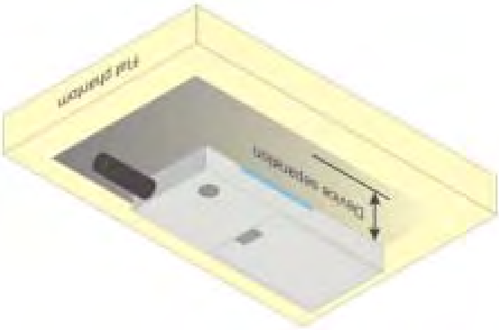
6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

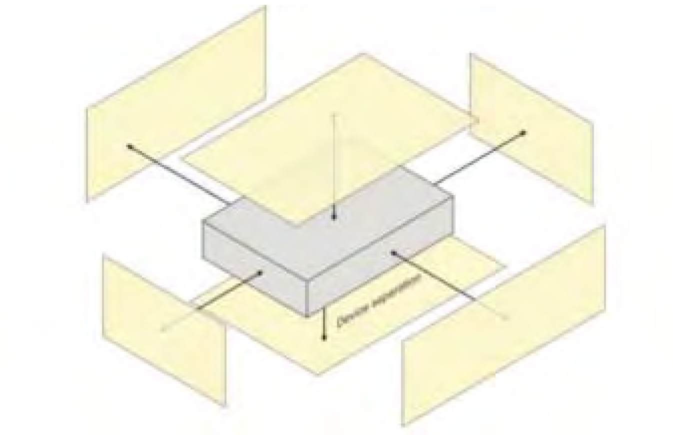
Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance <= 5 mm to support compliance.





6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



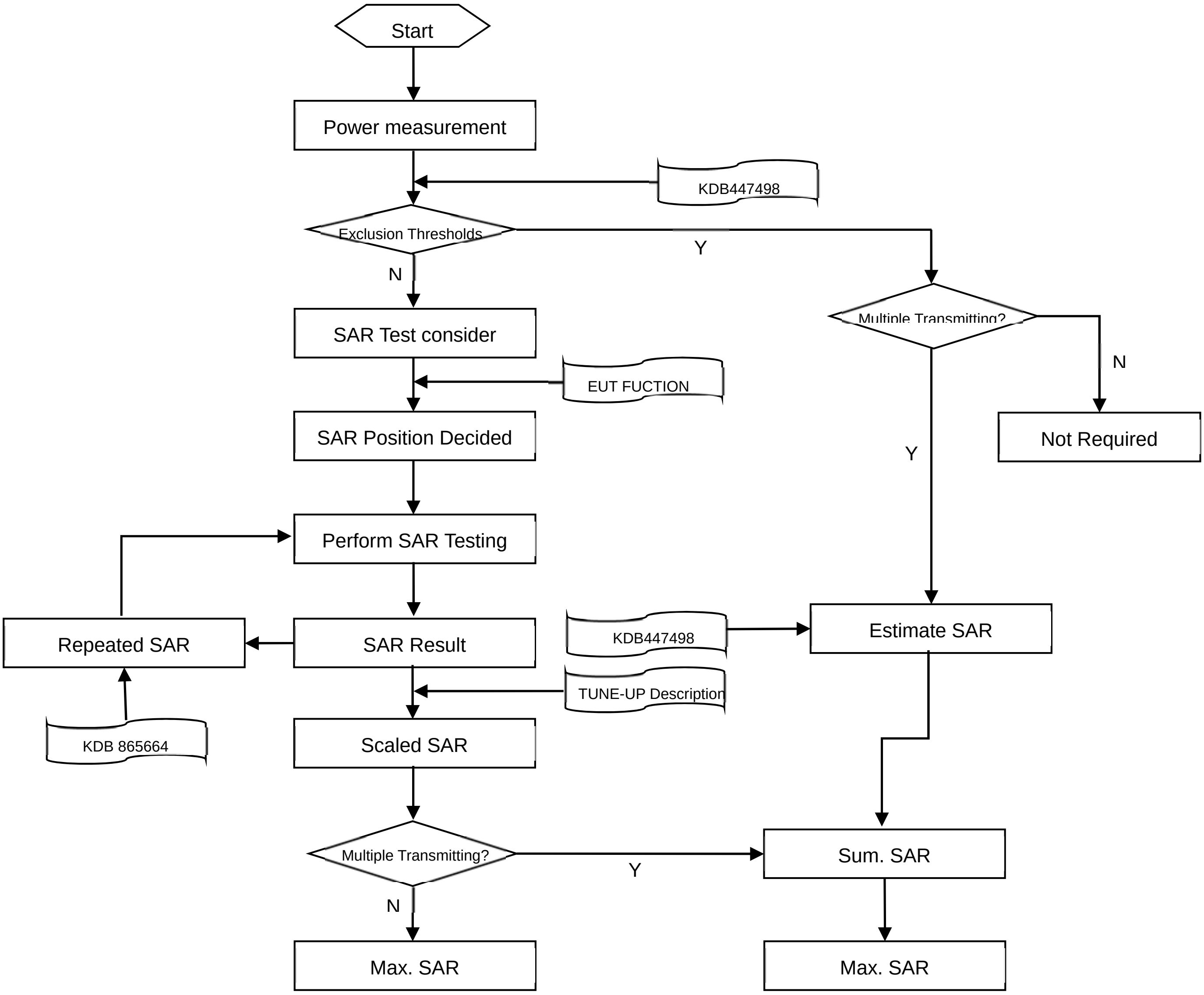
6.4 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram


Start
Power measurement
KDB447498
Exclusion Thresholds
Y
N
SAR Test consider
Multiple Transmitting?
EUT FUCTION
N
SAR Position Decided
Y
Not Required
Perform SAR Testing
Repeated SAR
SAR Result
KDB447498
Estimate SAR
TUNE-UP Description
KDB 865664
Scaled SAR
Multiple Transmitting?
Y
Sum. SAR
N
Max. SAR
Max. SAR

7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Boththe probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	½·δ·ln(2)±0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20°±1°
Maximum area scan spatial resolution: Δx Area , Δy Area			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom			≤ 2 GHz: ≤ 8 mm 2 –3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)		≤ 5 mm	3–4 GHz: ≤ 4 mm
				4–5 GHz: ≤ 3 mm
				5–6 GHz: ≤ 2 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm
				4–5 GHz: ≤ 2.5 mm
				5–6 GHz: ≤ 2 mm
		Δz Zoom (n>1): between subsequent points	≤ 1.5·Δz Zoom (n-1)	
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm

Note:

1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

7.3 Measurement Procedure

The following steps are used for each test position

a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface

b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.

c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.

d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 *32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

8 CONDUCTED RF OUPUT POWER

8.1 GSM

Please refer the document “Conducted RF Output Power List.pdf”.

8.2 WCDMA

Please refer the document “Conducted RF Output Power List.pdf”.

8.3 LTE

Please refer the document “Conducted RF Output Power List.pdf”.

8.4 Intra-Band Uplink CA Normal Power

Please refer the document “Conducted RF Output Power List.pdf”.

8.5 WIFI

8.5.1 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	13.59	14.50	No
		2	2417	18.98	20.00	No
		6	2437	**19.52**	20.00	Yes
		10	2457	19.23	20.00	No
		11	2462	18.26	19.00	No
	802.11g	1	2412	13.95	14.50	No
		2	2417	17.41	18.00	No
		6	2437	17.70	18.00	No
		10	2457	17.46	18.00	No
		11	2462	16.30	17.00	No
	802.11n(HT20)	1	2412	14.00	14.50	No
		2	2417	16.74	17.00	No
		6	2437	16.35	17.00	No
		10	2457	16.57	17.00	No
		11	2462	15.30	16.00	No

8.5.2 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	15.46	15.50	No
		40	5200	18.25	18.50	No
		44	5220	**18.28**	18.50	Yes
		48	5240	16.42	17.00	No
	802.11n(HT20)	36	5180	15.09	15.50	No
		40	5200	18.20	18.50	No
		44	5220	18.13	18.50	No
		48	5240	16.28	17.00	No
	802.11n(HT40)	38	5190	15.07	15.50	No
		46	5230	15.86	16.50	No
	802.11ac(VHT20)	36	5180	15.23	15.50	No
		40	5200	17.43	18.00	No
		44	5220	17.25	18.00	No
		48	5240	16.26	16.50	No
	802.11ac(VHT40)	38	5190	15.19	15.50	No
		46	5230	15.74	16.00	No
	802.11ac(VHT80)	42	5210	12.28	13.00	No

5.3 (5.25~5.35)	802.11a	52	5260	16.75	17.00	No
		56	5280	18.31	18.50	No
		60	5300	**18.42**	18.50	Yes
		64	5320	15.03	15.50	No
	802.11n(HT20)	52	5260	16.75	17.00	No
		56	5280	18.03	18.50	No
		60	5300	18.14	18.50	No
		64	5320	15.05	15.50	No
	802.11n(HT40)	54	5270	15.97	16.50	No
		62	5310	13.18	13.50	No
	802.11ac(VHT20)	52	5260	16.20	16.50	No
		56	5280	17.29	18.00	No
		60	5300	17.52	18.00	No
		64	5320	15.08	15.50	No
	802.11ac(VHT40)	54	5270	15.38	16.00	No
		62	5310	13.10	13.50	No
	802.11ac(VHT80)	58	5290	12.04	12.50	No
5.6 (5.47~5.725)	802.11a	100	5500	15.34	15.50	No
		104	5520	19.28	19.50	No
		116	5580	**19.44**	19.50	Yes
		136	5680	19.37	19.50	No
		140	5700	15.47	15.50	No
		144	5720	19.25	19.50	No
	802.11n(HT20)	100	5500	15.26	15.50	No
		104	5520	17.83	18.50	No
		116	5580	18.01	18.50	No
		136	5580	17.84	18.50	No
		140	5700	15.14	15.50	No
		144	5720	17.64	18.50	No
	802.11n(HT40)	102	5510	10.44	11.00	No
		110	5550	17.34	18.00	No
		118	5590	17.55	18.00	No
		126	5630	17.41	18.00	No
		134	5670	16.15	16.50	No
		142	5710	16.15	18.00	No
	802.11ac(VHT20)	100	5500	15.02	15.50	No
		104	5520	17.44	18.00	No
		116	5580	17.68	18.00	No
		136	5580	17.52	18.00	No
		140	5700	14.89	15.50	No
		144	5720	17.37	18.00	No

	802.11ac(VHT40)	102	5510	10.26	11.00	No
		110	5550	16.96	17.50	No
		118	5590	17.12	17.50	No
		126	5630	16.94	17.50	No
		134	5670	15.27	16.00	No
		142	5710	16.75	17.50	No
	802.11ac(VHT80)	106	5530	12.60	13.00	No
		122	5610	14.79	15.50	No
		138	5690	13.63	14.00	No
5.8 (5.725~5.850)	802.11a	149	5745	**19.33**	19.50	Yes
		157	5785	19.12	19.50	No
		165	5825	18.94	19.50	No
	802.11n(HT20)	149	5745	18.02	18.50	No
		157	5785	18.01	18.50	No
		165	5825	17.91	18.50	No
	802.11n(HT40)	151	5755	17.41	18.00	No
		159	5795	17.57	18.00	No
	802.11ac(VHT20)	149	5745	17.60	18.00	No
		157	5785	17.67	18.00	No
		165	5825	17.58	18.00	No
	802.11ac(VHT40)	151	5755	16.77	17.50	No
		159	5795	16.92	17.50	No
	802.11ac(VHT80)	155	5775	14.79	15.50	No

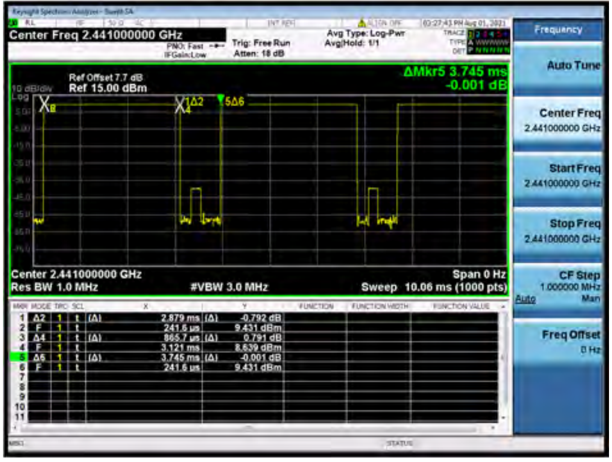
8.6 Bluetooth

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	9.25	**9.57**	8.95	8.71	8.79	8.29
Tune-Up Limit (dBm)	11.00	11.50	10.00	10.00	10.00	10.00
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Conducted Power (dBm)	8.64	8.73	8.19	/	/	/
Tune-Up Limit (dBm)	10.00	10.00	10.00	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	0	19	39
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Conducted Power (dBm)	-3.37	-2.34	-3.70	-3.22	-2.19	-3.48
Tune-Up Limit (dBm)	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00

Note: The Bluetooth duty cycle is 76.88 %, The WIFI 2.4G 802.11b duty cycle is 99.32 %, The WIFI 5G 802.11a duty cycle is 96.80 %, as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle

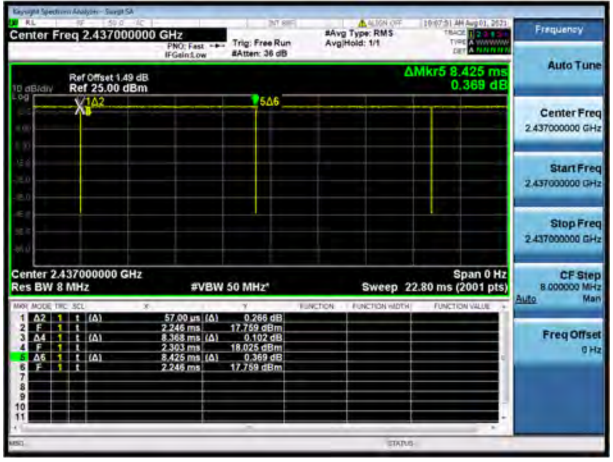
Bluetooth-GFSK


Keysight Spectrum Analyzer - Swept SA
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
Xв
1Δ2
5Δ6
10 dB/div
Log
MSG
STATUS

Center Freq 2.441000000 GHz
Trig: Free Run
Atten: 18 dB
Avg Type: Log-Pwr
Avg|Hold: 1/1
Ref Offset 7.7 dB
Ref 15.00 dBm
ΔMkr5 3.745 ms
-0.001 dB
Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 10.06 ms (1000 pts)

MKR	MODE	TRC	SCL	X		Y		FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	t	(Δ)	2.879 ms	(Δ)	-0.792 dB			
2	F	1	t		241.6 µs		9.431 dBm			
3	Δ4	1	t	(Δ)	865.7 µs	(Δ)	0.791 dB			
4	F	1	t		3.121 ms		8.639 dBm			
5	Δ6	1	t	(Δ)	3.745 ms	(Δ)	-0.001 dB			
6	F	1	t		241.6 µs		9.431 dBm			

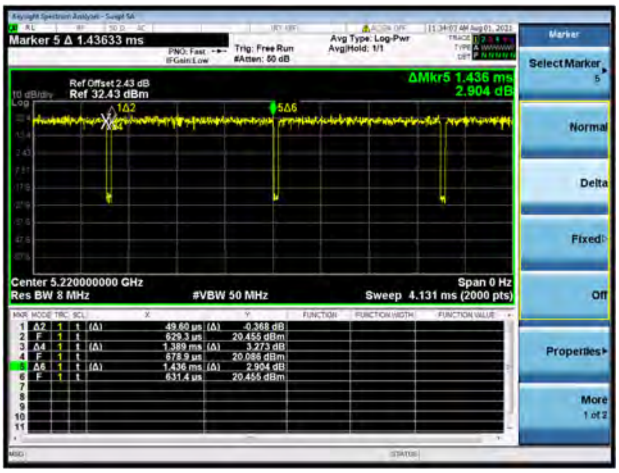
2.4G WIFI-802.11b


Keysight Spectrum Analyzer - Swept SA
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.437000000 GHz
Stop Freq
2.437000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz
1Δ2
5Δ6
10 dB/div
Log
MSG
STATUS

Center Freq 2.437000000 GHz
Trig: Free Run
#Atten: 36 dB
#Avg Type: RMS
Avg|Hold: 1/1
Ref Offset 1.49 dB
Ref 25.00 dBm
ΔMkr5 8.425 ms
0.369 dB
Center 2.437000000 GHz
Res BW 8 MHz
#VBW 50 MHz*
Span 0 Hz
Sweep 22.80 ms (2001 pts)

MKR	MODE	TRC	SCL	X		Y		FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	t	(Δ)	57.00 µs	(Δ)	0.266 dB			
2	F	1	t		2.246 ms		17.759 dBm			
3	Δ4	1	t	(Δ)	8.368 ms	(Δ)	0.102 dB			
4	F	1	t		2.303 ms		18.025 dBm			
5	Δ6	1	t	(Δ)	8.425 ms	(Δ)	0.369 dB			
6	F	1	t		2.246 ms		17.759 dBm			

5G WIFI-802.11a


Keysight Spectrum Analyzer - Swept SA
Marker
Select Marker
5
Normal
Delta
Fixed
Off
Properties
More
1 of 2
1Δ2
5Δ6
10 dB/div
Log
MSG
STATUS

Marker 5 Δ 1.43633 ms
Trig: Free Run
#Atten: 50 dB
Avg Type: Log-Pwr
Avg|Hold: 1/1
Ref Offset 2.43 dB
Ref 32.43 dBm
ΔMkr5 1.436 ms
2.904 dB
Center 5.220000000 GHz
Res BW 8 MHz
#VBW 50 MHz
Span 0 Hz
Sweep 4.131 ms (2000 pts)

MKR	MODE	TRC	SCL	X		Y		FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	t	(Δ)	49.60 µs	(Δ)	-0.368 dB			
2	F	1	t		629.3 µs		20.455 dBm			
3	Δ4	1	t	(Δ)	1.389 ms	(Δ)	3.273 dB			
4	F	1	t		678.9 µs		20.086 dBm			
5	Δ6	1	t	(Δ)	1.436 ms	(Δ)	2.904 dB			
6	F	1	t		631.4 µs		20.455 dBm			

8.7 Power Reduction List

1. This mobile phone device supports the receiver detection mechanism. This device uses the receiver to indicate whether the user is making a call in head.
2. When device is making call in head, the power reduction will applied for SAR compliance.
3. When device operating under hotspot mode, the power reduction will applied for SAR compliance.
4. This device uses the P-sensor to detect handheld state.

WWAN Power Level Table

Reduced level	Receiver state	Sensor	Transmitting conditions	Position
（Full Power）	/	Off	/	Head Front Side Back Side Left Edge Right Edge Top Edge Bottom Edge
DSI2	On (head scenario)	/	WWAN Use Only	Head
DSI3	On (head scenario)	/	WWAN+WLAN	Head
DSI4	Off (Extremity scenario)	On	WWAN Use Only	Front Side (0mm) Back Side (0mm) Top Edge (0mm)
DSI5	Off (Extremity scenario)	On	WWAN+WLAN	Front Side (0mm) Back Side (0mm) Top Edge (0mm)
DSI6	Off (Body&Extremity scenario)	Off	WWAN+WLAN	Front Side (10mm;15mm) Back Side (10mm;15mm) Left Edge (0mm;10mm;15mm) Right Edge (0mm;10mm;15mm) Top Edge (10mm;15mm) Bottom Edge (0mm;10mm;15mm)
DSI7	Off (Body&Extremity scenario)	Off	WWAN Use Only	Front Side (15mm) Back Side (15mm) Left Edge (0mm;15mm) Right Edge (0mm;15mm) Top Edge (15mm) Bottom Edge (0mm;15mm)
Note: The WWAN 2G/3G/4G up antenna includes antenna 13#; The WWAN 2G/3G/4G down antenna includes antenna 31#/41#.				

WWAN Antenna Up Power Table

Mode	WWAN Up Antenna							
	Antenna	Full Power	Receiver on		Receiver off			
			Head		Extremit		Body&Extremit	
			Standalone	Simultaneous transmission	Standalone	Simultaneous transmission		Standalone
		Off	DSI2	DSI3	DSI4	DSI5	DSI6	DSI7
GSM 850	Ant.13	34.00	32.50	31.50	34.00	34.00	34.00	34.00
GPRS850 1 Tx Slot	Ant.13	34.00	32.50	31.50	34.00	34.00	34.00	34.00
GPRS850 2 Tx Slots	Ant.13	32.00	28.50	27.50	32.00	32.00	32.00	32.00
GPRS850 3 Tx Slots	Ant.13	30.00	26.50	25.50	30.00	30.00	30.00	30.00
GPRS8504 Tx Slots	Ant.13	28.00	25.50	24.50	28.00	28.00	28.00	28.00
EGPRS850 1 Tx Slot	Ant.13	28.00	26.50	25.50	28.00	28.00	28.00	28.00
EGPRS850 2 Tx Slots	Ant.13	26.00	22.50	21.50	26.00	26.00	26.00	26.00
EGPRS850 3 Tx Slots	Ant.13	24.00	20.50	19.50	24.00	24.00	24.00	24.00
EGPRS850 4 Tx Slots	Ant.13	22.00	19.50	18.50	22.00	22.00	22.00	22.00
GSM 1900	Ant.13	31.00	24.50	23.50	29.00	27.50	27.50	31.00
GPRS1900 1 Tx Slot	Ant.13	31.00	24.50	23.50	29.00	27.50	27.50	31.00
GPRS1900 2 Tx Slots	Ant.13	29.00	21.00	20.50	25.50	24.00	24.00	29.00
GPRS1900 3 Tx Slots	Ant.13	27.00	19.50	19.00	23.50	22.50	22.50	27.00
GPRS1900 4 Tx Slots	Ant.13	25.00	18.00	17.00	23.00	21.00	21.00	25.00
EGPRS1900 1 Tx Slot	Ant.13	27.00	20.50	19.50	25.00	23.50	23.50	27.00
EGPRS1900 2 Tx Slots	Ant.13	25.00	17.00	16.50	21.50	20.00	20.00	25.00
EGPRS1900 3 Tx Slots	Ant.13	23.00	15.50	15.00	19.50	18.50	18.50	23.00
EGPRS1900 4 Tx Slots	Ant.13	21.00	14.00	13.00	19.00	17.00	17.00	21.00
WCDMA Band2 RMC	Ant.13	24.50	15.00	14.50	19.50	18.50	18.50	24.50
HSDPA Subtest-1	Ant.13	23.50	14.00	13.50	18.50	17.50	17.50	23.50
HSDPA Subtest-2	Ant.13	23.50	14.00	13.50	18.50	17.50	17.50	23.50
HSDPA Subtest-3	Ant.13	23.00	13.50	13.00	18.00	17.00	17.00	23.00
HSDPA Subtest-4	Ant.13	23.00	13.50	13.00	18.00	17.00	17.00	23.00
HSUPA Subtest-1	Ant.13	21.00	11.50	11.00	16.00	15.00	15.00	21.00
HSUPA Subtest-2	Ant.13	21.50	12.00	11.50	16.50	15.50	15.50	21.50
HSUPA Subtest-3	Ant.13	22.50	13.00	12.50	17.50	16.50	16.50	22.50
HSUPA Subtest-4	Ant.13	21.00	11.50	11.00	16.00	15.00	15.00	21.00
HSUPA Subtest-5	Ant.13	22.50	13.00	12.50	17.50	16.50	16.50	22.50
WCDMA Band4 RMC	Ant.13	24.50	16.00	15.00	21.00	19.50	19.50	24.50
HSDPA Subtest-1	Ant.13	23.50	15.00	14.00	20.00	18.50	18.50	23.50
HSDPA Subtest-2	Ant.13	23.50	15.00	14.00	20.00	18.50	18.50	23.50
HSDPA Subtest-3	Ant.13	23.00	14.50	13.50	19.50	18.00	18.00	23.00
HSDPA Subtest-4	Ant.13	23.00	14.50	13.50	19.50	18.00	18.00	23.00
HSUPA Subtest-1	Ant.13	21.00	12.50	11.50	17.50	16.00	16.00	21.00
HSUPA Subtest-2	Ant.13	21.50	13.00	12.00	18.00	16.50	16.50	21.50
HSUPA Subtest-3	Ant.13	22.50	14.00	13.00	19.00	17.50	17.50	22.50

HSUPA Subtest-4	Ant.13	21.00	12.50	11.50	17.50	16.00	16.00	21.00
HSUPA Subtest-5	Ant.13	22.50	14.00	13.00	19.00	17.50	17.50	22.50
WCDMA Band5 RMC	Ant.13	24.50	23.50	22.50	24.50	24.50	24.50	24.50
HSDPA Subtest-1	Ant.13	23.50	22.50	21.50	23.50	23.50	23.50	23.50
HSDPA Subtest-2	Ant.13	23.50	22.50	21.50	23.50	23.50	23.50	23.50
HSDPA Subtest-3	Ant.13	23.00	22.00	21.00	23.00	23.00	23.00	23.00
HSDPA Subtest-4	Ant.13	23.00	22.00	21.00	23.00	23.00	23.00	23.00
HSUPA Subtest-1	Ant.13	21.00	20.00	19.00	21.00	21.00	21.00	21.00
HSUPA Subtest-2	Ant.13	21.50	20.50	19.50	21.50	21.50	21.50	21.50
HSUPA Subtest-3	Ant.13	22.50	21.50	20.50	22.50	22.50	22.50	22.50
HSUPA Subtest-4	Ant.13	21.00	20.00	19.00	21.00	21.00	21.00	21.00
HSUPA Subtest-5	Ant.13	22.50	21.50	20.50	22.50	22.50	22.50	22.50
LTE Band2	Ant.13	24.00	15.00	14.00	20.00	18.50	18.50	24.00
LTE Band4	Ant.13	24.00	15.00	14.50	21.00	20.00	20.00	24.00
LTE Band5	Ant.13	24.50	23.50	22.50	24.50	24.50	24.50	24.50
LTE Band7	Ant.13	23.50	18.00	17.00	20.00	18.50	18.50	23.50
LTE Band12	Ant.13	24.50	23.50	23.50	24.50	24.50	24.50	24.50
LTE Band17	Ant.13	24.50	23.50	23.50	24.50	24.50	24.50	24.50
LTE Band66	Ant.13	24.00	16.00	15.00	21.00	20.00	20.00	24.00
LTE Band38	Ant.13	24.00	20.50	19.50	22.50	21.50	21.50	24.00
LTE Band41	Ant.13	24.00	20.50	19.50	22.50	21.50	21.50	24.00

WWAN Antenna Down Power Table

Mode	WWAN Down Antenna							
	Antenna	Full Power	Receiver on		Receiver off			
			Head		Extremit		Body&Extremit	
			Standalone	Simultaneous transmission	Standalone	Simultaneous transmission		Standalone
		Off	DSI2	DSI3	DSI4	DSI5	DSI6	DSI7
GSM 850	Ant.41	34.30	34.30	34.30	34.30	34.30	34.30	34.30
GPRS850 1 Tx Slot	Ant.41	34.30	34.30	34.30	34.30	34.30	34.30	34.30
GPRS850 2 Tx Slots	Ant.41	32.30	32.30	32.30	32.30	32.30	32.30	32.30
GPRS850 3 Tx Slots	Ant.41	30.30	30.30	30.30	30.30	30.30	30.30	30.30
GPRS8504 Tx Slots	Ant.41	28.30	28.30	28.30	28.30	28.30	28.30	28.30
EGPRS850 1 Tx Slot	Ant.41	28.00	28.00	28.00	28.00	28.00	28.00	28.00
EGPRS850 2 Tx Slots	Ant.41	26.00	26.00	26.00	26.00	26.00	26.00	26.00
EGPRS850 3 Tx Slots	Ant.41	24.00	24.00	24.00	24.00	24.00	24.00	24.00
EGPRS850 4 Tx Slots	Ant.41	22.00	22.00	22.00	22.00	22.00	22.00	22.00
GSM 1900	Ant.31	31.00	31.00	31.00	31.00	31.00	31.00	31.00
GPRS1900 1 Tx Slot	Ant.31	31.00	31.00	31.00	31.00	31.00	31.00	31.00
GPRS1900 2 Tx Slots	Ant.31	29.00	29.00	29.00	29.00	29.00	29.00	29.00
GPRS1900 3 Tx Slots	Ant.31	27.00	27.00	27.00	27.00	27.00	27.00	27.00
GPRS1900 4 Tx Slots	Ant.31	25.00	25.00	25.00	25.00	25.00	25.00	25.00

EGPRS1900 1 Tx Slot	Ant.31	27.00	27.00	27.00	27.00	27.00	27.00	27.00
EGPRS1900 2 Tx Slots	Ant.31	25.00	25.00	25.00	25.00	25.00	25.00	25.00
EGPRS1900 3 Tx Slots	Ant.31	23.00	23.00	23.00	23.00	23.00	23.00	23.00
EGPRS1900 4 Tx Slots	Ant.31	21.00	21.00	21.00	21.00	21.00	21.00	21.00
WCDMA Band2 RMC	Ant.31	24.50	24.50	24.50	22.00	22.00	22.00	22.00
HSDPA Subtest-1	Ant.31	23.50	23.50	23.50	21.00	21.00	21.00	21.00
HSDPA Subtest-2	Ant.31	23.50	23.50	23.50	21.00	21.00	21.00	21.00
HSDPA Subtest-3	Ant.31	23.00	23.00	23.00	20.50	20.50	20.50	20.50
HSDPA Subtest-4	Ant.31	23.00	23.00	23.00	20.50	20.50	20.50	20.50
HSUPA Subtest-1	Ant.31	21.00	21.00	21.00	18.50	18.50	18.50	18.50
HSUPA Subtest-2	Ant.31	21.50	21.50	21.50	19.00	19.00	19.00	19.00
HSUPA Subtest-3	Ant.31	22.50	22.50	22.50	20.00	20.00	20.00	20.00
HSUPA Subtest-4	Ant.31	21.00	21.00	21.00	18.50	18.50	18.50	18.50
HSUPA Subtest-5	Ant.31	22.50	22.50	22.50	20.00	20.00	20.00	20.00
WCDMA Band4 RMC	Ant.31	24.50	24.50	24.50	22.50	22.50	22.50	22.50
HSDPA Subtest-1	Ant.31	23.50	23.50	23.50	21.50	21.50	21.50	21.50
HSDPA Subtest-2	Ant.31	23.50	23.50	23.50	21.50	21.50	21.50	21.50
HSDPA Subtest-3	Ant.31	23.00	23.00	23.00	21.00	21.00	21.00	21.00
HSDPA Subtest-4	Ant.31	23.00	23.00	23.00	21.00	21.00	21.00	21.00
HSUPA Subtest-1	Ant.31	21.00	21.00	21.00	19.00	19.00	19.00	19.00
HSUPA Subtest-2	Ant.31	21.50	21.50	21.50	19.50	19.50	19.50	19.50
HSUPA Subtest-3	Ant.31	22.50	22.50	22.50	20.50	20.50	20.50	20.50
HSUPA Subtest-4	Ant.31	21.00	21.00	21.00	19.00	19.00	19.00	19.00
HSUPA Subtest-5	Ant.31	22.50	22.50	22.50	20.50	20.50	20.50	20.50
WCDMA Band5 RMC	Ant.41	24.50	24.50	24.50	24.50	24.50	24.50	24.50
HSDPA Subtest-1	Ant.41	23.50	23.50	23.50	23.50	23.50	23.50	23.50
HSDPA Subtest-2	Ant.41	23.50	23.50	23.50	23.50	23.50	23.50	23.50
HSDPA Subtest-3	Ant.41	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSDPA Subtest-4	Ant.41	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSUPA Subtest-1	Ant.41	21.00	21.00	21.00	21.00	21.00	21.00	21.00
HSUPA Subtest-2	Ant.41	21.50	21.50	21.50	21.50	21.50	21.50	21.50
HSUPA Subtest-3	Ant.41	22.50	22.50	22.50	22.50	22.50	22.50	22.50
HSUPA Subtest-4	Ant.41	21.00	21.00	21.00	21.00	21.00	21.00	21.00
HSUPA Subtest-5	Ant.41	22.50	22.50	22.50	22.50	22.50	22.50	22.50
LTE Band2	Ant.31	24.20	24.20	24.20	22.20	22.20	22.20	22.20
LTE Band4	Ant.31	24.20	24.20	24.20	23.20	23.20	23.20	23.20
LTE Band5	Ant.41	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band7	Ant.31	23.50	23.50	23.50	22.00	22.00	22.00	22.00
LTE Band12	Ant.41	25.00	25.00	25.00	25.00	25.00	25.00	25.00
LTE Band17	Ant.41	25.00	25.00	25.00	25.00	25.00	25.00	25.00
LTE Band66	Ant.31	24.50	24.50	24.50	23.00	23.00	23.00	23.00
LTE Band38	Ant.31	24.20	24.20	24.20	24.20	24.20	24.20	24.20
LTE Band41	Ant.31	24.20	24.20	24.20	24.20	24.20	24.20	24.20

WLAN Power Level Table

Reduced Power level	Receiver state	Transmitting conditions
Level 1	Off (Body-Worn&Extremit scenario)	WLAN Use Only
Level 2	Off (Body-Worn&Hotspot&Extremit scenario)	WWAN + WLAN
Level 3	On (head scenario)	WLAN Use Only & WWAN + WLAN

WLAN Antenna Power Table

Mode	WLAN Antenna					
	Full Power	Receiver on		Receiver off		
		Head		Body-Worn&Extremit		Hotspot
		Standalone	Simultaneous transmission	Standalone	Simultaneous transmission	Simultaneous transmission
		Level3	Level3	Level1	Level2	Level2
2.4G WLAN 802.11b	20.00	17.00	17.00	20.00	19.50	19.50
2.4G WLAN 802.11g	18.00	15.00	15.00	18.00	17.50	17.50
2.4G WLAN 802.11n20	17.00	14.00	14.00	17.00	16.50	16.50
5.2G WLAN 802.11a	18.50	14.50	14.50	18.50	13.00	13.00
5.2& WLAN 802.11n20	18.50	14.50	14.50	18.50	13.00	13.00
5.2WLAN 802.11n40	16.50	12.50	12.50	16.50	11.00	11.00
5.2&WLAN 802.11ac20	18.00	14.00	14.00	18.00	12.50	12.50
5.2WLAN 802.11ac40	16.00	12.00	12.00	16.00	10.50	10.50
5.2 WLAN 802.11ac80	13.00	9.00	9.00	13.00	7.50	7.50
5.3G WLAN 802.11a	18.50	14.50	14.50	18.50	14.50	/
5.3G WLAN 802.11n20	18.50	14.50	14.50	18.50	14.50	/
5.3G WLAN 802.11n40	16.50	12.50	12.50	16.50	12.50	/
5.3G WLAN 802.11ac20	18.00	14.00	14.00	18.00	14.00	/
5.3G WLAN 802.11ac40	16.00	12.00	12.00	16.00	12.00	/
5.3G WLAN 802.11ac80	12.50	8.50	8.50	12.50	8.50	/
5.6G WLAN 802.11a	19.50	14.50	14.50	19.50	18.00	/
5.6G WLAN 802.11n20	18.50	13.50	13.50	18.50	17.00	/
5.6G WLAN 802.11n40	18.00	13.00	13.00	18.00	16.50	/
5.6G WLAN 802.11ac20	18.00	13.00	13.00	18.00	16.50	/
5.6G WLAN 802.11ac40	17.50	12.50	12.50	17.50	16.00	/
5.6G WLAN 802.11ac80	15.50	10.50	10.50	15.50	14.00	/
5.8G WLAN 802.11a	19.50	15.50	15.50	19.50	17.00	17.00
5.8G WLAN 802.11n20	18.50	14.50	14.50	18.50	16.00	16.00
5.8G WLAN 802.11n40	18.00	14.00	14.00	18.00	15.50	15.50
5.8G WLAN 802.11ac20	18.00	14.00	14.00	18.00	15.50	15.50

5.8G WLAN 802.11ac40	17.50	13.50	13.50	17.50	15.00	15.00
5.8G LAN 802.11ac80	15.50	11.50	11.50	15.50	13.00	13.00
Bluetooth	11.50	11.50	11.50	11.50	11.50	11.50

8.7.1 Power Reduced Body Level 1 of 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	13.59	14.50	No
		2	2417	18.98	20.00	No
		6	2437	**19.52**	20.00	Yes
		10	2457	19.23	20.00	No
		11	2462	18.26	19.00	No
	802.11g	1	2412	13.95	14.50	No
		2	2417	17.41	18.00	No
		6	2437	17.70	18.00	No
		10	2457	17.46	18.00	No
		11	2462	16.30	17.00	No
	802.11n(HT20)	1	2412	14.00	14.50	No
		2	2417	16.74	17.00	No
		6	2437	16.35	17.00	No
		10	2457	16.57	17.00	No
		11	2462	15.30	16.00	No

8.7.2 Power Reduced Body Level 2 of 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	13.07	14.00	No
		2	2417	18.57	19.50	No
		6	2437	**18.84**	19.50	Yes
		10	2457	18.80	19.50	No
		11	2462	18.10	18.50	No
	802.11g	1	2412	13.58	14.00	No
		2	2417	16.86	17.50	No
		6	2437	17.13	17.50	No
		10	2457	16.92	17.50	No
		11	2462	15.97	16.50	No
	802.11n(HT20)	1	2412	13.37	14.00	No
		2	2417	16.09	16.50	No
		6	2437	15.80	16.50	No
		10	2457	16.00	16.50	No
		11	2462	14.86	15.50	No

8.7.3 Power Reduced Head Level 3 of 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	11.01	11.50	No
		2	2417	16.21	17.00	No
		6	2437	**16.52**	17.00	Yes
		10	2457	16.44	17.00	No
		11	2462	15.26	16.00	No
	802.11g	1	2412	10.83	11.50	No
		2	2417	14.66	15.00	No
		6	2437	14.55	15.00	No
		10	2457	14.40	15.00	No
		11	2462	13.63	14.00	No
	802.11n(HT20)	1	2412	11.15	11.50	No
		2	2417	13.71	14.00	No
		6	2437	13.26	14.00	No
		10	2457	13.41	14.00	No
		11	2462	12.28	13.00	No

8.7.4 Power Reduced Body Level 1 of 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	15.46	15.50	No
		40	5200	18.25	18.50	No
		44	5220	18.28	18.50	No
		48	5240	16.42	17.00	No
	802.11n(HT20)	36	5180	15.09	15.50	No
		40	5200	18.20	18.50	No
		44	5220	18.13	18.50	No
		48	5240	16.28	17.00	No
	802.11n(HT40)	38	5190	15.07	15.50	No
		46	5230	15.86	16.50	No
	802.11ac(VHT20)	36	5180	15.23	15.50	No
		40	5200	17.43	18.00	No
		44	5220	17.25	18.00	No
		48	5240	16.26	16.50	No
	802.11ac(VHT40)	38	5190	15.19	15.50	No
		46	5230	15.74	16.00	No
	802.11ac(VHT80)	42	5210	12.28	13.00	No
5.3 (5.25~5.35)	802.11a	52	5260	16.75	17.00	No
		56	5280	18.31	18.50	No
		60	5300	**18.42**	18.50	Yes
		64	5320	15.03	15.50	No
	802.11n(HT20)	52	5260	16.75	17.00	No
		56	5280	18.03	18.50	No
		60	5300	18.14	18.50	No
		64	5320	15.05	15.50	No
	802.11n(HT40)	54	5270	15.97	16.50	No
		62	5310	13.18	13.50	No
	802.11ac(VHT20)	52	5260	16.20	16.50	No
		56	5280	17.29	18.00	No
		60	5300	17.52	18.00	No
		64	5320	15.08	15.50	No
	802.11ac(VHT40)	54	5270	15.38	16.00	No
		62	5310	13.10	13.50	No
	802.11ac(VHT80)	58	5290	12.04	12.50	No
5.6 (5.47~5.725)	802.11a	100	5500	15.34	15.50	No
		104	5520	19.28	19.50	No
		116	5580	**19.44**	19.50	Yes
		136	5680	19.37	19.50	No

		140	5700	15.47	15.50	No
		144	5720	19.25	19.50	No
	802.11n(HT20)	100	5500	15.26	15.50	No
		104	5520	17.83	18.50	No
		116	5580	18.01	18.50	No
		136	5580	17.84	18.50	No
		140	5700	15.14	15.50	No
		144	5720	17.64	18.50	No
	802.11n(HT40)	102	5510	10.44	11.00	No
		110	5550	17.34	18.00	No
		118	5590	17.55	18.00	No
		126	5630	17.41	18.00	No
		134	5670	16.15	16.50	No
		142	5710	16.15	18.00	No
	802.11ac(VHT20)	100	5500	15.02	15.50	No
		104	5520	17.44	18.00	No
		116	5580	17.68	18.00	No
		136	5580	17.52	18.00	No
		140	5700	14.89	15.50	No
		144	5720	17.37	18.00	No
	802.11ac(VHT40)	102	5510	10.26	11.00	No
		110	5550	16.96	17.50	No
		118	5590	17.12	17.50	No
		126	5630	16.94	17.50	No
		134	5670	15.27	16.00	No
		142	5710	16.75	17.50	No
	802.11ac(VHT80)	106	5530	12.60	13.00	No
		122	5610	14.79	15.50	No
		138	5690	13.63	14.00	No
5.8 (5.725~5.850)	802.11a	149	5745	**19.33**	19.50	Yes
		157	5785	19.12	19.50	No
		165	5825	18.94	19.50	No
	802.11n(HT20)	149	5745	18.02	18.50	No
		157	5785	18.01	18.50	No
		165	5825	17.91	18.50	No
	802.11n(HT40)	151	5755	17.41	18.00	No
		159	5795	17.57	18.00	No
	802.11ac(VHT20)	149	5745	17.60	18.00	No
		157	5785	17.67	18.00	No
		165	5825	17.58	18.00	No
	802.11ac(VHT40)	151	5755	16.77	17.50	No

		159	5795	16.92	17.50	No
	802.11ac(VHT80)	155	5775	14.79	15.50	No

8.7.5 Power Reduced Body Level 2 of 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	9.36	10.00	No
		40	5200	12.02	13.00	No
		44	5220	**12.25**	13.00	Yes
		48	5240	11.16	11.50	No
	802.11n(HT20)	36	5180	9.61	10.00	No
		40	5200	12.36	13.00	No
		44	5220	12.50	13.00	No
		48	5240	10.78	11.50	No
	802.11n(HT40)	38	5190	9.63	10.00	No
		46	5230	10.64	11.00	No
	802.11ac(VHT20)	36	5180	9.30	10.00	No
		40	5200	11.87	12.50	No
		44	5220	11.89	12.50	No
		48	5240	10.60	11.00	No
	802.11ac(VHT40)	38	5190	9.23	10.00	No
		46	5230	9.81	10.50	No
	802.11ac(VHT80)	42	5210	7.24	7.50	No
5.3 (5.25~5.35)	802.11a	52	5260	12.81	13.00	No
		56	5280	14.32	14.50	No
		60	5300	**14.47**	14.50	Yes
		64	5320	11.38	11.50	No
	802.11n(HT20)	52	5260	12.59	13.00	No
		56	5280	13.95	14.50	No
		60	5300	14.00	14.50	No
		64	5320	10.91	11.50	No
	802.11n(HT40)	54	5270	11.84	12.50	No
		62	5310	8.97	9.50	No
	802.11ac(VHT20)	52	5260	12.09	12.50	No
		56	5280	13.48	14.00	No
		60	5300	13.61	14.00	No
		64	5320	10.91	11.50	No
	802.11ac(VHT40)	54	5270	11.67	12.00	No
		62	5310	8.81	9.50	No
	802.11ac(VHT80)	58	5290	8.02	8.50	No
5.6	802.11a	100	5500	13.91	14.00	No

(5.47~5.725)		104	5520	17.74	18.00	No
		116	5580	**17.86**	18.00	Yes
		136	5680	17.69	18.00	No
		140	5700	13.87	14.00	No
		144	5720	17.78	18.00	No
	802.11n(HT20)	100	5500	13.33	14.00	No
		104	5520	16.43	17.00	No
		116	5580	16.66	17.00	No
		136	5580	16.53	17.00	No
		140	5700	13.64	14.00	No
		144	5720	16.42	17.00	No
	802.11n(HT40)	102	5510	9.10	9.50	No
		110	5550	16.03	16.50	No
		118	5590	16.14	16.50	No
		126	5630	15.97	16.50	No
		134	5670	14.69	15.00	No
		142	5710	15.83	16.50	No
	802.11ac(VHT20)	100	5500	13.27	14.00	No
		104	5520	15.66	16.50	No
		116	5580	15.84	16.50	No
		136	5580	15.84	16.50	No
		140	5700	13.26	14.00	No
		144	5720	15.50	16.50	No
	802.11ac(VHT40)	102	5510	9.14	9.50	No
		110	5550	15.43	16.00	No
		118	5590	15.55	16.00	No
		126	5630	15.38	16.00	No
		134	5670	14.09	14.50	No
		142	5710	15.40	16.00	No
	802.11ac(VHT80)	106	5530	11.06	11.50	No
		122	5610	13.60	14.00	No
		138	5690	12.22	12.50	No
5.8 (5.725~5.850)	802.11a	149	5745	**16.84**	17.00	Yes
		157	5785	16.81	17.00	No
		165	5825	16.75	17.00	No
	802.11n(HT20)	149	5745	15.54	16.00	No
		157	5785	15.55	16.00	No
		165	5825	15.51	16.00	No
	802.11n(HT40)	151	5755	14.82	15.50	No
		159	5795	15.17	15.50	No
	802.11ac(VHT20)	149	5745	15.15	15.50	No

		157	5785	15.13	15.50	No
		165	5825	15.11	15.50	No
	802.11ac(VHT40)	151	5755	14.27	15.00	No
		159	5795	14.68	15.00	No
	802.11ac(VHT80)	155	5775	12.34	13.00	No

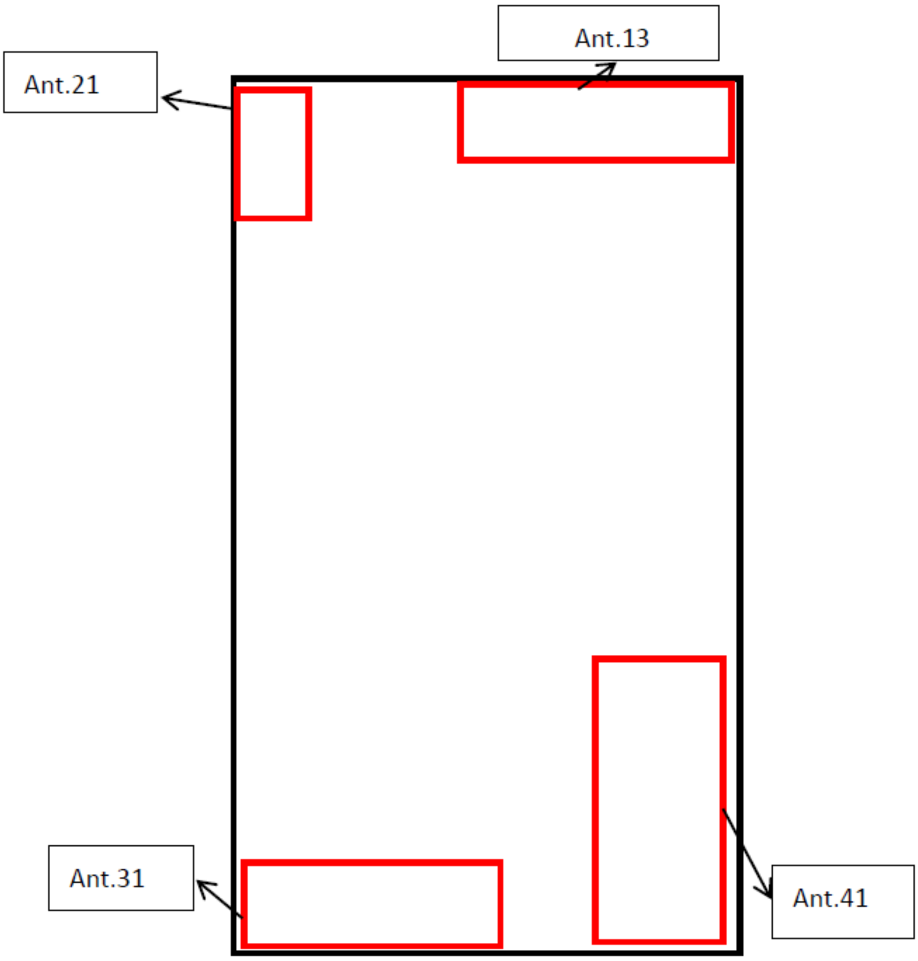
8.7.6 Power Reduced Head Level 3 of 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	11.05	11.50	No
		40	5200	13.43	14.50	No
		44	5220	13.59	14.50	No
		48	5240	12.66	13.00	No
	802.11n(HT20)	36	5180	11.26	11.50	No
		40	5200	13.94	14.50	No
		44	5220	14.01	14.50	No
		48	5240	12.46	13.00	No
	802.11n(HT40)	38	5190	11.17	11.50	No
		46	5230	12.23	12.50	No
	802.11ac(VHT20)	36	5180	10.85	11.50	No
		40	5200	13.37	14.00	No
		44	5220	13.54	14.00	No
		48	5240	12.08	12.50	No
	802.11ac(VHT40)	38	5190	10.82	11.50	No
		46	5230	11.33	12.00	No
	802.11ac(VHT80)	42	5210	8.72	9.00	No
5.3 (5.25~5.35)	802.11a	52	5260	12.81	13.00	No
		56	5280	14.32	14.50	No
		60	5300	**14.47**	14.50	Yes
		64	5320	11.38	11.50	No
	802.11n(HT20)	52	5260	12.59	13.00	No
		56	5280	13.95	14.50	No
		60	5300	14.00	14.50	No
		64	5320	10.91	11.50	No
	802.11n(HT40)	54	5270	11.84	12.50	No
		62	5310	8.97	9.50	No
	802.11ac(VHT20)	52	5260	12.09	12.50	No
		56	5280	13.48	14.00	No
		60	5300	13.61	14.00	No
		64	5320	10.91	11.50	No
	802.11ac(VHT40)	54	5270	11.67	12.00	No

		62	5310	8.81	9.50	No
	802.11ac(VHT80)	58	5290	8.02	8.50	No
5.6 (5.47~5.725)	802.11a	100	5500	10.28	10.50	No
		104	5520	14.25	14.50	No
		116	5580	**14.28**	14.50	Yes
		136	5680	14.15	14.50	No
		140	5700	10.29	10.50	No
		144	5720	14.22	14.50	No
	802.11n(HT20)	100	5500	10.19	10.50	No
		104	5520	12.80	13.50	No
		116	5580	12.86	13.50	No
		136	5580	12.82	13.50	No
		140	5700	10.04	10.50	No
		144	5720	12.92	13.50	No
	802.11n(HT40)	102	5510	5.34	6.00	No
		110	5550	12.18	13.00	No
		118	5590	12.41	13.00	No
		126	5630	12.29	13.00	No
		134	5670	11.09	11.50	No
		142	5710	12.15	13.00	No
	802.11ac(VHT20)	100	5500	9.95	10.50	No
		104	5520	12.28	13.00	No
		116	5580	12.45	13.00	No
		136	5580	12.19	13.00	No
		140	5700	9.98	10.50	No
		144	5720	12.03	13.00	No
	802.11ac(VHT40)	102	5510	5.60	6.00	No
		110	5550	11.43	12.50	No
		118	5590	11.55	12.50	No
		126	5630	11.28	12.50	No
		134	5670	10.32	11.00	No
		142	5710	11.40	12.50	No
	802.11ac(VHT80)	106	5530	7.53	8.00	No
		122	5610	9.58	10.50	No
		138	5690	8.37	9.00	No
5.8 (5.725~5.850)	802.11a	149	5745	**15.25**	15.50	Yes
		157	5785	15.22	15.50	No
		165	5825	15.15	15.50	No
	802.11n(HT20)	149	5745	13.89	14.50	No
		157	5785	13.83	14.50	No
		165	5825	13.80	14.50	No

	802.11n(HT40)	151	5755	13.47	14.00	No
		159	5795	13.23	14.00	No
	802.11ac(VHT20)	149	5745	13.36	14.00	No
		157	5785	13.26	14.00	No
		165	5825	13.57	14.00	No
	802.11ac(VHT40)	151	5755	12.80	13.50	No
		159	5795	12.80	13.50	No
	802.11ac(VHT80)	155	5775	11.02	11.50	No

9 TEST EXCLUSION CONSIDERATION



<EUT Back View>

Antenna	Description	Support Bands
Antenna 13	2/3/4G LMHB TX Antenna	GSM: 850/1900 WCDMA: B2/4/5 LTE: B2/4/5/7/12/17/66/38/41
Antenna 21	2.4G/5G/BT TX Antenna	2.4G/5G WLAN Bluetooth
Antenna 31	2/3/4G MHB TX Antenna	GSM: 1900 WCDMA: B2/4 LTE: B2/4/7/66/38/41
Antenna 41	2/3/4G LB TX Antenna	GSM: 850 WCDMA: B5 LTE: B5/12/17

Note1: WWAN TX antennas for certain frequency band can switch automatically, but only one antenna can transmit at same time.

Note2: Middle and High frequency Band (MHB).

Note3: Low frequency Band (LB).

Antenna	Front Side (mm)	Back Side (mm)	Left Edge (mm)	Right Edge (mm)	Top Edge (mm)	Bottom Edge (mm)
Ant.13	<5	<5	24	<5	<5	151
Ant.21	<5	<5	<5	55	<5	139
Ant.31	<5	<5	<5	20	151	<5
Ant.41	<5	<5	47	<5	104	<5

9.1 SAR Test Exclusion Consideration Table

According with FCC KDB 447498 D01, Appendix A, <SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ⩽ 50 mm> Table, this Device SAR test configurations consider as following :

Antenna 13

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 850	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	Voice	34.00	2511.89	Yes	Yes	Yes	Yes	Yes	No
	Data	34.00	2511.89	Yes	Yes	Yes	Yes	Yes	No
GSM 1900	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	Voice	31.00	1258.93	Yes	Yes	Yes	Yes	Yes	No
	Data	31.00	1258.93	Yes	Yes	Yes	Yes	Yes	No
WCDMA Band 2	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	RMC	24.50	281.84	Yes	Yes	Yes	Yes	Yes	No
WCDMA Band 4	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	RMC	24.50	281.84	Yes	Yes	Yes	Yes	Yes	No
WCDMA Band 5	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	RMC	24.50	281.84	Yes	Yes	Yes	Yes	Yes	No
LTE Band 2	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	Yes	No
LTE Band 4	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	Yes	No
LTE Band 5	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	Yes	No
LTE Band 7	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	QPSK	23.50	223.87	Yes	Yes	Yes	Yes	Yes	No
LTE Band 12	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	Yes	No
LTE Band 17	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	Yes	No
LTE Band 66	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	Yes	No
LTE Band 38	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	Yes	No
LTE Band 41	Distance to User			<5mm	<5mm	24mm	<5mm	<5mm	151mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	Yes	No

Antenna 31

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 1900	Distance to User			<5mm	<5mm	<5mm	20mm	151mm	<5mm
	Voice	31.00	1258.93	Yes	Yes	Yes	Yes	No	Yes
	Data	31.00	1258.93	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 2	Distance to User			<5mm	<5mm	<5mm	20mm	151mm	<5mm
	RMC	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 4	Distance to User			<5mm	<5mm	<5mm	20mm	151mm	<5mm
	RMC	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 2	Distance to User			<5mm	<5mm	<5mm	20mm	151mm	<5mm
	QPSK	24.20	263.03	Yes	Yes	Yes	Yes	No	Yes
LTE Band 4	Distance to User			<5mm	<5mm	<5mm	20mm	151mm	<5mm
	QPSK	24.20	263.03	Yes	Yes	Yes	Yes	No	Yes
LTE Band 7	Distance to User			<5mm	<5mm	<5mm	20mm	151mm	<5mm
	QPSK	23.50	223.87	Yes	Yes	Yes	Yes	No	Yes
LTE Band 66	Distance to User			<5mm	<5mm	<5mm	20mm	151mm	<5mm
	QPSK	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 38	Distance to User			<5mm	<5mm	<5mm	20mm	151mm	<5mm
	QPSK	24.20	263.03	Yes	Yes	Yes	Yes	No	Yes
LTE Band 41	Distance to User			<5mm	<5mm	<5mm	20mm	151mm	<5mm
	QPSK	24.20	263.03	Yes	Yes	Yes	Yes	No	Yes

Antenna 41

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 850	Distance to User			<5mm	<5mm	47mm	<5mm	104mm	<5mm
	Voice	34.30	2691.53	Yes	Yes	Yes	Yes	No	Yes
	Data	34.30	2691.53	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 5	Distance to User			<5mm	<5mm	47mm	<5mm	104mm	<5mm
	RMC	24.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 5	Distance to User			<5mm	<5mm	47mm	<5mm	104mm	<5mm
	QPSK	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 12	Distance to User			<5mm	<5mm	47mm	<5mm	104mm	<5mm
	QPSK	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 17	Distance to User			<5mm	<5mm	47mm	<5mm	104mm	<5mm
	QPSK	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes

Antenna 21

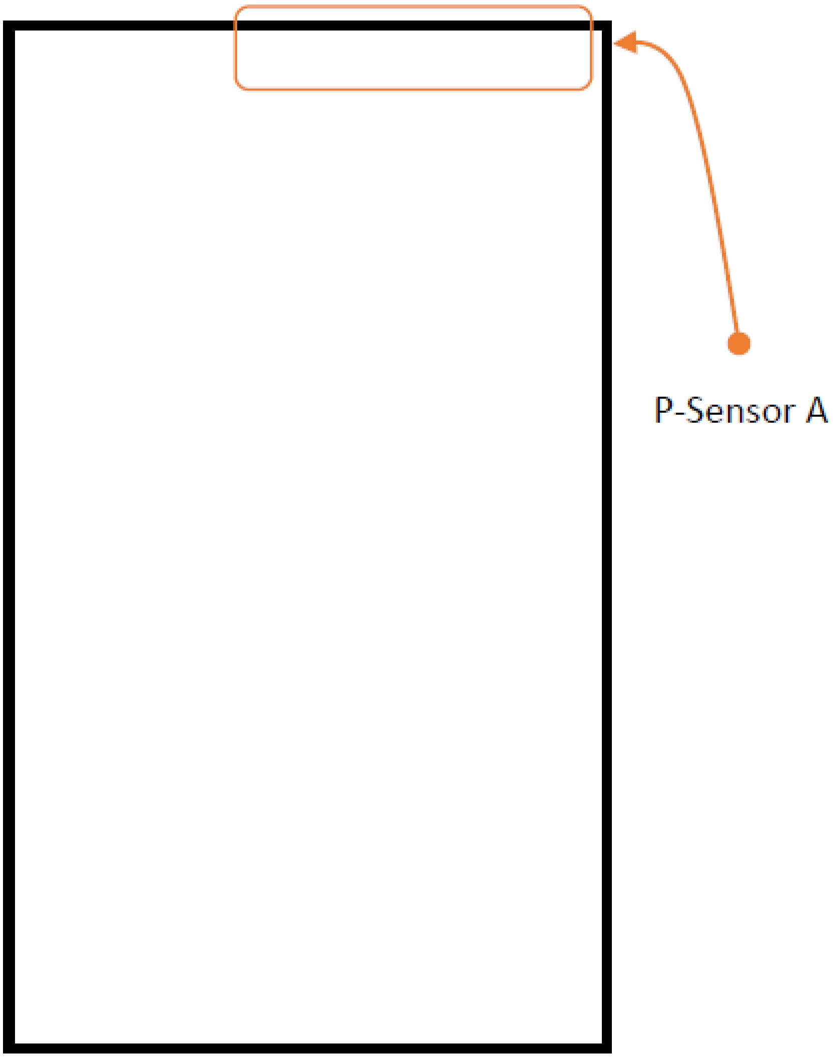
Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
WLAN 2.4 G	Distance to User			<5mm	<5mm	<5mm	55mm	<5mm	139mm
	802.11b	20.00	100.00	Yes	Yes	Yes	Yes	Yes	Yes
	802.11g	18.00	63.10	No	No	No	No	No	No
	802.11n(HT20)	17.00	50.12	No	No	No	No	No	No
WLAN 5.2 G	Distance to User			<5mm	<5mm	<5mm	55mm	<5mm	139mm
	802.11a	18.50	70.79	Yes	Yes	Yes	Yes	Yes	Yes
	802.11n(HT20)	18.50	70.79	No	No	No	No	No	No
	802.11n(HT40)	16.50	44.67	No	No	No	No	No	No
	802.11ac(VHT20)	18.00	63.10	No	No	No	No	No	No
	802.11ac(VHT40)	16.00	39.81	No	No	No	No	No	No
	802.11ac(VHT80)	13.00	19.95	No	No	No	No	No	No
WLAN 5.3 G	Distance to User			<5mm	<5mm	<5mm	55mm	<5mm	139mm
	802.11a	18.50	70.79	Yes	Yes	Yes	Yes	Yes	Yes
	802.11n(HT20)	18.50	70.79	No	No	No	No	No	No
	802.11n(HT40)	16.50	44.67	No	No	No	No	No	No
	802.11ac(VHT20)	18.00	63.10	No	No	No	No	No	No
	802.11ac(VHT40)	16.00	39.81	No	No	No	No	No	No
	802.11ac(VHT80)	12.50	17.78	No	No	No	No	No	No
WLAN 5.6 G	Distance to User			<5mm	<5mm	<5mm	55mm	<5mm	139mm
	802.11a	19.50	89.13	Yes	Yes	Yes	Yes	Yes	Yes
	802.11n(HT20)	18.50	70.79	No	No	No	No	No	No
	802.11n(HT40)	18.00	63.10	No	No	No	No	No	No
	802.11ac(VHT20)	18.00	63.10	No	No	No	No	No	No
	802.11ac(VHT40)	17.50	56.23	No	No	No	No	No	No
	802.11ac(VHT80)	15.50	35.48	No	No	No	No	No	No
WLAN 5.8 G	Distance to User			<5mm	<5mm	<5mm	55mm	<5mm	139mm
	802.11a	19.50	89.13	Yes	Yes	Yes	Yes	Yes	Yes
	802.11n(HT20)	18.50	70.79	No	No	No	No	No	No
	802.11n(HT40)	18.00	63.10	No	No	No	No	No	No
	802.11ac(VHT20)	18.00	63.10	No	No	No	No	No	No
	802.11ac(VHT40)	17.50	56.23	No	No	No	No	No	No
	802.11ac(VHT80)	15.50	35.48	No	No	No	No	No	No
Bluetooth	Distance to User			<5mm	<5mm	<5mm	55mm	<5mm	139mm
	BR/EDR	11.50	14.13	Yes	Yes	Yes	Yes	Yes	Yes
	BLE	-2.00	0.63	No	No	No	No	No	No

Note:

1. Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units.
2. Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D01, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold
4. Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
   a. f(GHz) is the RF channel transmit frequency in GHz
   b. Power and distance are rounded to the nearest mW and mm before calculation
   c. The result is rounded to one decimal place for comparison
   d. For < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.

   This formula is [3.0] / [√f(GHz)] ·[(min. test separation distance, mm)] = exclusion threshold of mW.
5. Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
   a. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
   b. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
6. Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA /HSUPA /DC-HSDPA output power is < 0.25dB higher than RMC12.2Kbps, or reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
7. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.8. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate.
8. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
   a. When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
   b. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
9. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
   a. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
   b. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

10 Proximity Sensor Triggering Test

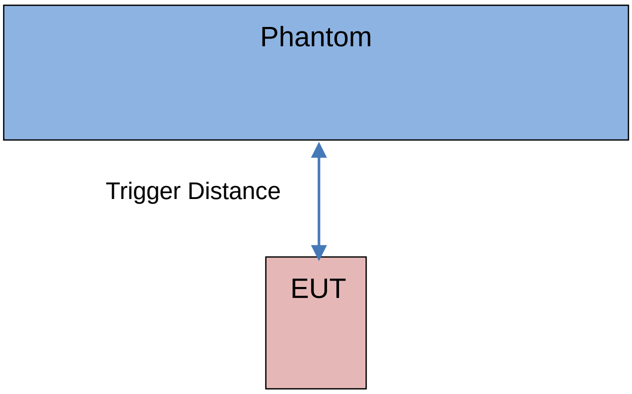


Sensor Detection Distance:

	Front Side	Back Side	Top Edge
Distance	9mm	12mm	14mm

10.1Procedures for determining proximity sensor distance

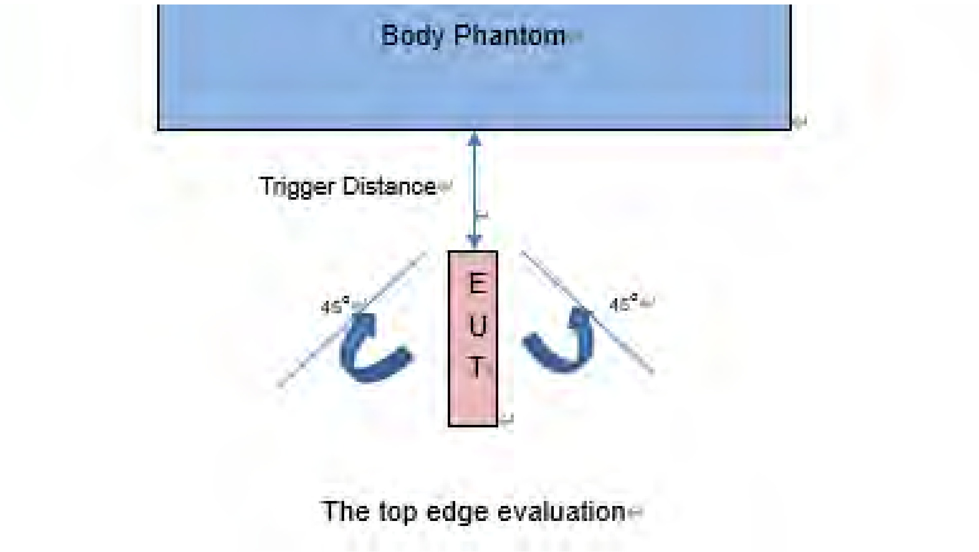
Proximity sensor triggering distance testing was performed, EUT moving further away from the phantom and EUT moving toward the phantom were both assessed, and the shortest triggering distances were reported and used for SAR assessment.



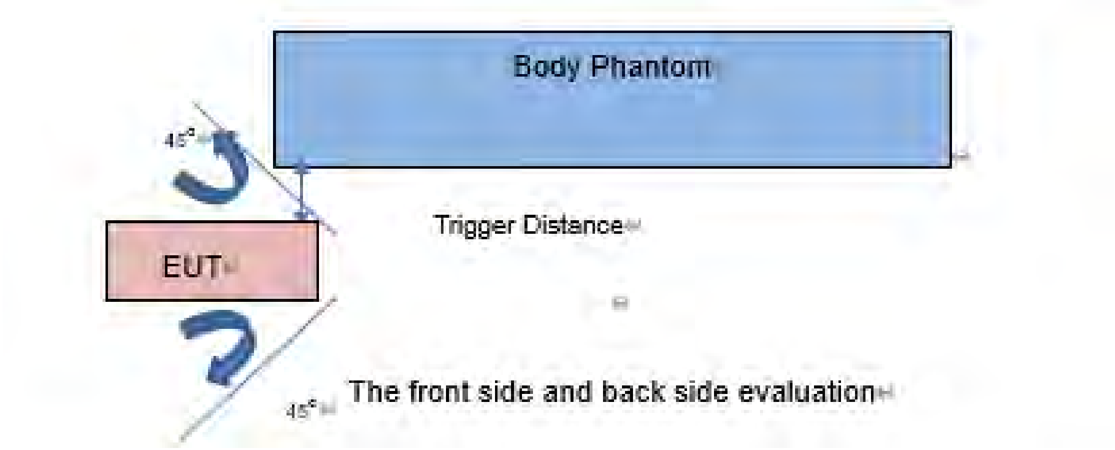
P-Sensor	Distance in (mm)	0-8	9	10	11	12	13	14	15	16	17	18
A	Front Side	On	On	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Back Side	On	On	On	On	On	Off	Off	Off	Off	Off	Off
	Top Edge	On	On	On	On	On	On	On	Off	Off	Off	Off
Note: Power reduction is only applicable for 2G/ 3G/ 4G.												

10.2 Procedures for determining tablet tilt angle influences to proximity sensor triggering

The influence of table tilt angles to proximity sensor triggering was determined by positioning each phone edge that contains a transmitting antenna, perpendicular to the flat phantom, at 9 mm separation for the front side, 12 mm separation for the back side, 14 mm separation for top edge.
Rotating the tablet around the edge next to the phantom in ⩽ 10° increments until the tablet is ± 45° from the vertical position at 0°, and the maximum output power remains in the reduced mode.



The top edge evaluation



The front side and back side evaluation

For verification of compliance of power reduction scheme, additional SAR test with EUT transmitting at full RF power at a separation of “the triggering distance – 1 mm”

P-Sensor	EUT Sides	Additional SAR test Distance in mm
A	Front Side	8
	Back Side	11
	Top Edge	13

11 TEST RESULT

11.1 GSM 850

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.13	Voice	Left Cheek	0	251	848.80	DSI2	0.19	0.590	31.37	32.50	1.297	0.765	/
		Left Tilt	0	251	848.80	DSI2	0.15	0.525	31.37	32.50	1.297	0.681	/
		Right Cheek	0	251	848.80	DSI2	-0.02	0.768	31.37	32.50	1.297	**0.996**	1
			0	128	824.20	DSI2	0.08	0.611	31.30	32.50	1.318	0.805	/
			0	190	836.60	DSI2	-0.03	0.714	31.31	32.50	1.315	0.939	/
		Right Tilt	0	251	848.80	DSI2	0.14	0.608	31.37	32.50	1.297	0.789	/
Ant.13	GPRS (1slots)	Left Cheek	0	251	848.80	DSI3	0.17	0.464	30.37	31.50	1.297	0.602	/
		Left Tilt	0	251	848.80	DSI3	0.07	0.420	30.37	31.50	1.297	0.545	/
		Right Cheek	0	251	848.80	DSI3	-0.11	0.596	30.37	31.50	1.297	0.773	/
		Right Tilt	0	251	848.80	DSI3	0.02	0.459	30.37	31.50	1.297	0.595	/
Ant.41	GPRS (2slots)	Left Cheek	0	251	848.80	DSI2&3	0.15	0.260	31.59	32.30	1.178	0.306	/
		Left Tilt	0	251	848.80	DSI2&3	-0.04	0.166	31.59	32.30	1.178	0.195	/
		Right Cheek	0	251	848.80	DSI2&3	-0.12	0.236	31.59	32.30	1.178	0.278	/
		Right Tilt	0	251	848.80	DSI2&3	0.19	0.124	31.59	32.30	1.178	0.146	/
Body-worn Accessory													
Ant.13	Voice	Front Side	15	251	848.80	DSI7&6	-0.14	0.130	33.12	34.00	1.225	0.159	/
		Back Side	15	251	848.80	DSI7&6	-0.08	0.144	33.12	34.00	1.225	0.176	/
	GPRS (2slots)	Front Side	15	251	848.80	DSI7&6	0.01	0.189	31.78	32.00	1.052	0.199	/
		Back Side	15	251	848.80	DSI7&6	-0.15	0.220	31.78	32.00	1.052	0.231	/
Ant.41	Voice	Front Side	15	251	848.80	DSI7&6	-0.08	0.138	32.94	34.30	1.368	0.189	/
		Back Side	15	251	848.80	DSI7&6	-0.16	0.213	32.94	34.30	1.368	0.291	/
	GPRS (2slots)	Front Side	15	251	848.80	DSI7&6	0.16	0.213	31.59	32.30	1.178	0.251	/
		Back Side	15	251	848.80	DSI7&6	-0.06	0.373	31.59	32.30	1.178	**0.439**	2
Hotspot													
Ant.13	GPRS (2slots)	Front Side	10	251	848.80	DSI6	0.03	0.268	31.78	32.00	1.052	0.282	/
		Back Side	10	251	848.80	DSI6	-0.04	0.421	31.78	32.00	1.052	0.443	/
		Left Edge	10	251	848.80	DSI6	-0.19	0.174	31.78	32.00	1.052	0.183	/
		Right Edge	10	251	848.80	DSI6	-0.15	0.178	31.78	32.00	1.052	0.187	/
		Top Edge	10	251	848.80	DSI6	0.11	0.310	31.78	32.00	1.052	0.326	/
Ant.41	GPRS (2slots)	Front Side	10	251	848.80	DSI6	-0.05	0.369	31.59	32.30	1.178	0.435	/
		Back Side	10	251	848.80	DSI6	-0.01	0.613	31.59	32.30	1.178	**0.722**	3
		Left Edge	10	251	848.80	DSI6	-0.06	0.136	31.59	32.30	1.178	0.160	/
		Right Edge	10	251	848.80	DSI6	-0.17	0.341	31.59	32.30	1.178	0.402	/
		Bottom Edge	10	251	848.80	DSI6	0.05	0.174	31.59	32.30	1.178	0.205	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.2 GSM 1900

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.13	Voice	Left Cheek	0	512	1850.20	DSI2	0.17	0.343	23.86	24.50	1.159	0.397	/
		Left Tilt	0	512	1850.20	DSI2	0.10	0.393	23.86	24.50	1.159	0.455	/
		Right Cheek	0	512	1850.20	DSI2	0.10	0.519	23.86	24.50	1.159	0.601	/
		Right Tilt	0	512	1850.20	DSI2	0.19	0.581	23.86	24.50	1.159	**0.673**	4
Ant.13	GPRS (3slots)	Left Cheek	0	512	1850.20	DSI3	0.04	0.293	17.79	19.00	1.321	0.387	/
		Left Tilt	0	512	1850.20	DSI3	0.11	0.338	17.79	19.00	1.321	0.446	/
		Right Cheek	0	512	1850.20	DSI3	-0.14	0.450	17.79	19.00	1.321	0.595	/
		Right Tilt	0	512	1850.20	DSI3	-0.06	0.504	17.79	19.00	1.321	0.666	/
Ant.31	GPRS (2slots)	Left Cheek	0	810	1909.80	DSI2&3	-0.01	0.104	27.86	29.00	1.300	0.135	/
		Left Tilt	0	810	1909.80	DSI2&3	-0.03	0.071	27.86	29.00	1.300	0.092	/
		Right Cheek	0	810	1909.80	DSI2&3	0.09	0.080	27.86	29.00	1.300	0.104	/
		Right Tilt	0	810	1909.80	DSI2&3	-0.03	0.070	27.86	29.00	1.300	0.091	/
Body-worn Accessory													
Ant.13	Voice	Front Side	15	810	1909.80	DSI7	0.02	0.263	30.30	31.00	1.175	0.309	/
		Back Side	15	810	1909.80	DSI7	0.04	0.340	30.30	31.00	1.175	0.399	/
	GPRS (2slots)	Front Side	15	661	1880.00	DSI7	0.08	0.364	28.13	29.00	1.222	0.445	/
		Back Side	15	661	1880.00	DSI7	-0.13	0.524	28.13	29.00	1.222	**0.640**	5
Ant.13	Voice	Front Side	15	512	1850.20	DSI6	-0.06	0.109	26.95	27.50	1.135	0.124	/
		Back Side	15	512	1850.20	DSI6	0.06	0.137	26.95	27.50	1.135	0.155	/
	GPRS (1slots)	Front Side	15	512	1850.20	DSI6	0.02	0.145	26.94	27.50	1.138	0.165	/
		Back Side	15	512	1850.20	DSI6	0.13	0.181	26.94	27.50	1.138	0.206	/
Ant.31	Voice	Front Side	15	661	1880.00	DSI7&6	0.19	0.144	30.08	31.00	1.236	0.178	/
		Back Side	15	661	1880.00	DSI7&6	-0.15	0.249	30.08	31.00	1.236	0.308	/
	GPRS (2slots)	Front Side	15	810	1909.80	DSI7&6	0.06	0.155	27.86	29.00	1.300	0.202	/
		Back Side	15	810	1909.80	DSI7&6	0.19	0.280	27.86	29.00	1.300	0.364	/
Hotspot													
Ant.13	GPRS (1slots)	Front Side	10	512	1850.20	DSI6	0.04	0.281	26.94	27.50	1.138	0.320	/
		Back Side	10	512	1850.20	DSI6	-0.11	0.335	26.94	27.50	1.138	0.381	/
		Left Edge	10	512	1850.20	DSI6	0.07	0.038	26.94	27.50	1.138	0.043	/
		Right Edge	10	512	1850.20	DSI6	-0.12	0.083	26.94	27.50	1.138	0.094	/
		Top Edge	10	512	1850.20	DSI6	-0.01	0.500	26.94	27.50	1.138	0.568	/
Ant.31	GPRS (2slots)	Front Side	10	810	1909.80	DSI6	0.01	0.267	27.86	29.00	1.300	0.347	/
		Back Side	10	810	1909.80	DSI6	0.14	0.513	27.86	29.00	1.300	0.667	/
		Left Edge	10	810	1909.80	DSI6	0.03	0.136	27.86	29.00	1.300	0.177	/
		Right Edge	10	810	1909.80	DSI6	-0.17	0.090	27.86	29.00	1.300	0.117	/
		Bottom Edge	10	810	1909.80	DSI6	-0.01	0.576	27.86	29.00	1.300	**0.749**	6
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Reduction	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific													
Ant.13	GPRS (4slots)	Top Edge	0	512	1850.20	DSI4	0.10	0.964	22.40	23.00	1.149	**1.107**	7
Ant.13	GPRS (1slots)	Top Edge	0	512	1850.20	DSI5	0.09	0.721	26.94	27.50	1.138	0.820	/
P-Sensor off													
Ant.13	GPRS (2slots)	Front Side	8	512	1850.20	Off	-0.03	0.618	28.13	29.00	1.222	**0.755**	8
		Back Side	11	512	1850.20	Off	0.08	0.553	28.13	29.00	1.222	0.676	/
		Top Edge	13	512	1850.20	Off	-0.19	0.601	28.13	29.00	1.222	0.734	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.3 WCDMA Band 2

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.13	RMC	Left Cheek	0	9538	1907.60	DSI2	-0.05	0.332	14.08	15.00	1.236	0.410	/
		Left Tilt	0	9538	1907.60	DSI2	0.10	0.388	14.08	15.00	1.236	0.480	/
		Right Cheek	0	9538	1907.60	DSI2	0.11	0.525	14.08	15.00	1.236	0.649	/
		Right Tilt	0	9538	1907.60	DSI2	0.01	0.661	14.08	15.00	1.236	0.817	/
			0	9262	1852.4	DSI2	0.05	0.698	13.98	15.00	1.265	**0.883**	9
			0	9400	1880.0	DSI2	0.01	0.663	13.97	15.00	1.268	0.840	/
Ant.13	RMC	Left Cheek	0	9538	1907.60	DSI3	-0.16	0.302	13.17	14.50	1.358	0.410	/
		Left Tilt	0	9538	1907.60	DSI3	0.10	0.342	13.17	14.50	1.358	0.465	/
		Right Cheek	0	9538	1907.60	DSI3	0.13	0.498	13.17	14.50	1.358	0.676	/
		Right Tilt	0	9538	1907.60	DSI3	-0.11	0.542	13.17	14.50	1.358	0.736	/
Ant.31	RMC	Left Cheek	0	9538	1907.60	DSI2&3	0.07	0.157	23.28	24.50	1.324	0.208	/
		Left Tilt	0	9538	1907.60	DSI2&3	0.13	0.114	23.28	24.50	1.324	0.151	/
		Right Cheek	0	9538	1907.60	DSI2&3	-0.01	0.117	23.28	24.50	1.324	0.155	/
		Right Tilt	0	9538	1907.60	DSI2&3	-0.19	0.099	23.28	24.50	1.324	0.131	/
Body-worn Accessory													
Ant.13	RMC	Front Side	15	9538	1907.60	DSI7	0.18	0.545	23.52	24.50	1.253	0.683	/
		Back Side	15	9538	1907.60	DSI7	-0.04	0.783	23.52	24.50	1.253	**0.981**	10
			15	9262	1852.4	DSI7	-0.05	0.748	23.39	24.50	1.291	0.966	/
			15	9400	1880.0	DSI7	-0.18	0.731	23.42	24.50	1.282	0.937	/
Ant.13	RMC	Front Side	15	9538	1907.60	DSI6	0.05	0.154	17.79	18.50	1.178	0.181	/
		Back Side	15	9538	1907.60	DSI6	0.09	0.212	17.79	18.50	1.178	0.249	/
Ant.31	RMC	Front Side	15	9538	1907.60	DSI7&6	-0.12	0.157	20.81	22.00	1.315	0.207	/
		Back Side	15	9538	1907.60	DSI7&6	-0.03	0.290	20.81	22.00	1.315	0.382	/
Hotspot													
Ant.13	RMC	Front Side	10	9538	1907.60	DSI6	-0.07	0.398	17.79	18.50	1.178	0.469	/
		Back Side	10	9538	1907.60	DSI6	0.01	0.528	17.79	18.50	1.178	0.622	/
		Left Edge	10	9538	1907.60	DSI6	0.10	0.099	17.79	18.50	1.178	0.117	/
		Right Edge	10	9538	1907.60	DSI6	-0.03	0.150	17.79	18.50	1.178	0.177	/
		Top Edge	10	9538	1907.60	DSI6	0.01	0.677	17.79	18.50	1.178	**0.797**	11
Ant.31	RMC	Front Side	10	9538	1907.60	DSI6	-0.19	0.277	20.81	22.00	1.315	0.364	/
		Back Side	10	9538	1907.60	DSI6	0.07	0.536	20.81	22.00	1.315	0.705	/
		Left Edge	10	9538	1907.60	DSI6	-0.14	0.149	20.81	22.00	1.315	0.196	/
		Right Edge	10	9538	1907.60	DSI6	0.02	0.087	20.81	22.00	1.315	0.114	/
		Bottom Edge	10	9538	1907.60	DSI6	0.00	0.601	20.81	22.00	1.315	0.790	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Reduction	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific													
Ant.13	RMC	Front Side	0	9538	1907.60	DSI4	-0.14	1.110	18.80	19.50	1.175	1.304	/
		Back Side	0	9538	1907.60	DSI4	-0.16	1.130	18.80	19.50	1.175	1.328	/
		Top Edge	0	9538	1907.60	DSI4	0.10	1.040	18.80	19.50	1.175	1.222	/
Ant.13	RMC	Front Side	0	9538	1907.60	DSI5	-0.17	0.871	17.79	18.50	1.178	1.026	/
		Back Side	0	9538	1907.60	DSI5	0.12	0.908	17.79	18.50	1.178	1.069	/
		Top Edge	0	9538	1907.60	DSI5	0.09	0.789	17.79	18.50	1.178	0.929	/
Ant.31	RMC	Bottom Edge	0	9538	1907.60	DSI7&6	-0.05	1.860	20.81	22.00	1.315	**2.446**	12
			0	9262	1852.4	DSI7&6	-0.12	1.750	20.81	22.00	1.315	2.302	/
			0	9400	1880.0	DSI7&6	-0.06	1.610	20.75	22.00	1.334	2.147	/
P-Sensor off													
Ant.13	RMC	Front Side	8	9538	1907.60	Off	-0.19	0.545	23.52	24.50	1.253	0.683	/
		Back Side	11	9538	1907.60	Off	0.12	0.474	23.52	24.50	1.253	0.594	/
		Top Edge	13	9538	1907.60	Off	0.07	0.648	23.52	24.50	1.253	**0.812**	13
			13	9262	1852.4	Off	0.03	0.544	23.39	24.50	1.291	0.702	/
			13	9400	1880.0	Off	0.13	0.567	23.42	24.50	1.282	0.727	/
Ant.31	RMC	Front Side	8	9538	1907.60	Off	-0.01	0.390	23.28	24.50	1.324	0.516	/
		Back Side	11	9538	1907.60	Off	0.15	0.485	23.28	24.50	1.324	0.642	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.4WCDMA Band 4

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.13	RMC	Left Cheek	0	1513	1752.60	DSI2	-0.17	0.364	15.25	16.00	1.189	0.433	/
		Left Tilt	0	1513	1752.60	DSI2	-0.03	0.423	15.25	16.00	1.189	0.503	/
		Right Cheek	0	1513	1752.60	DSI2	-0.15	0.595	15.25	16.00	1.189	0.707	/
		Right Tilt	0	1513	1752.60	DSI2	0.07	0.711	15.25	16.00	1.189	**0.845**	14
			0	1312	1712.4	DSI2	0.01	0.528	15.25	16.00	1.189	0.628	/
			0	1412	1732.4	DSI2	-0.03	0.629	15.24	16.00	1.191	0.749	/
Ant.13	RMC	Left Cheek	0	1513	1752.60	DSI3	-0.12	0.276	13.85	15.00	1.303	0.360	/
		Left Tilt	0	1513	1752.60	DSI3	0.01	0.322	13.85	15.00	1.303	0.420	/
		Right Cheek	0	1513	1752.60	DSI3	-0.13	0.482	13.85	15.00	1.303	0.628	/
		Right Tilt	0	1513	1752.60	DSI3	-0.10	0.507	13.85	15.00	1.303	0.661	/
Ant.31	RMC	Left Cheek	0	1513	1752.60	DSI2&3	-0.06	0.125	23.42	24.50	1.282	0.160	/
		Left Tilt	0	1513	1752.60	DSI2&3	-0.14	0.084	23.42	24.50	1.282	0.108	/
		Right Cheek	0	1513	1752.60	DSI2&3	-0.16	0.077	23.42	24.50	1.282	0.099	/
		Right Tilt	0	1513	1752.60	DSI2&3	-0.11	0.100	23.42	24.50	1.282	0.128	/
Body-worn Accessory													
Ant.13	RMC	Front Side	15	1513	1752.60	DSI7	-0.18	0.458	23.68	24.50	1.208	0.553	/
		Back Side	15	1513	1752.60	DSI7	0.10	0.524	23.68	24.50	1.208	**0.633**	15
Ant.13	RMC	Front Side	15	1513	1752.60	DSI6	0.06	0.182	18.95	19.50	1.135	0.207	/
		Back Side	15	1513	1752.60	DSI6	0.10	0.215	18.95	19.50	1.135	0.244	/
Ant.31	RMC	Front Side	15	1513	1752.60	DSI7&6	-0.06	0.195	21.62	22.50	1.225	0.239	/
		Back Side	15	1513	1752.60	DSI7&6	-0.19	0.343	21.62	22.50	1.225	0.420	/
Hotspot													
Ant.13	RMC	Front Side	10	1513	1752.60	DSI6	0.13	0.458	18.95	19.50	1.135	0.520	/
		Back Side	10	1513	1752.60	DSI6	0.06	0.540	18.95	19.50	1.135	0.613	/
		Left Edge	10	1513	1752.60	DSI6	0.05	0.125	18.95	19.50	1.135	0.142	/
		Right Edge	10	1513	1752.60	DSI6	0.13	0.180	18.95	19.50	1.135	0.204	/
		Top Edge	10	1513	1752.60	DSI6	0.03	0.587	18.95	19.50	1.135	0.666	/
Ant.31	RMC	Front Side	10	1513	1752.60	DSI6	0.17	0.329	21.62	22.50	1.225	0.403	/
		Back Side	10	1513	1752.60	DSI6	-0.17	0.567	21.62	22.50	1.225	0.694	/
		Left Edge	10	1513	1752.60	DSI6	-0.02	0.162	21.62	22.50	1.225	0.198	/
		Right Edge	10	1513	1752.60	DSI6	-0.04	0.064	21.62	22.50	1.225	0.078	/
		Bottom Edge	10	1513	1752.60	DSI6	0.02	0.614	21.62	22.50	1.225	**0.752**	16
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Reduction	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific													
Ant.13	RMC	Front Side	0	1513	1752.60	DSI4	0.16	1.260	20.48	21.00	1.127	1.420	/
		Back Side	0	1513	1752.60	DSI4	-0.03	1.040	20.48	21.00	1.127	1.172	/
		Top Edge	0	1513	1752.60	DSI4	-0.04	1.350	20.48	21.00	1.127	**1.522**	17
Ant.13	RMC	Front Side	0	1513	1752.60	DSI5	0.10	0.927	18.95	19.50	1.135	1.052	/
		Back Side	0	1513	1752.60	DSI5	-0.18	0.746	18.95	19.50	1.135	0.847	/
		Top Edge	0	1513	1752.60	DSI5	0.18	0.909	18.95	19.50	1.135	1.032	/
P-Sensor off													
Ant.13	RMC	Front Side	8	1513	1752.60	Off	-0.06	0.790	23.68	24.50	1.208	**0.954**	18
		Back Side	11	1513	1752.60	Off	0.10	0.609	23.68	24.50	1.208	0.736	/
		Top Edge	13	1513	1752.60	Off	-0.02	0.645	23.68	24.50	1.208	0.779	/
Ant.31	RMC	Front Side	8	1513	1752.60	Off	0.13	0.391	23.42	24.50	1.282	0.501	/
		Back Side	11	1513	1752.60	Off	-0.13	0.456	23.42	24.50	1.282	0.585	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.5WCDMA Band 5

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.13	RMC	Left Cheek	0	4233	846.60	DSI2	-0.08	0.541	22.43	23.50	1.279	0.692	/
		Left Tilt	0	4233	846.60	DSI2	0.03	0.456	22.43	23.50	1.279	0.583	/
		Right Cheek	0	4233	846.60	DSI2	-0.03	0.573	22.43	23.50	1.279	**0.733**	19
		Right Tilt	0	4233	846.60	DSI2	-0.01	0.568	22.43	23.50	1.279	0.727	/
Ant.13	RMC	Left Cheek	0	4233	846.60	DSI3	0.06	0.341	21.06	22.50	1.393	0.475	/
		Left Tilt	0	4233	846.60	DSI3	-0.18	0.288	21.06	22.50	1.393	0.401	/
		Right Cheek	0	4233	846.60	DSI3	-0.15	0.396	21.06	22.50	1.393	0.552	/
		Right Tilt	0	4233	846.60	DSI3	0.04	0.382	21.06	22.50	1.393	0.532	/
Ant.41	RMC	Left Cheek	0	4233	846.60	DSI2&3	0.17	0.164	23.56	24.50	1.242	0.204	/
		Left Tilt	0	4233	846.60	DSI2&3	0.02	0.083	23.56	24.50	1.242	0.103	/
		Right Cheek	0	4233	846.60	DSI2&3	-0.03	0.133	23.56	24.50	1.242	0.165	/
		Right Tilt	0	4233	846.60	DSI2&3	0.17	0.060	23.56	24.50	1.242	0.074	/
Body-worn Accessory													
Ant.13	RMC	Front Side	15	4233	846.60	DSI7&6	0.14	0.098	23.38	24.50	1.294	0.127	/
		Back Side	15	4233	846.60	DSI7&6	0.01	0.131	23.38	24.50	1.294	0.170	/
Ant.41	RMC	Front Side	15	4233	846.60	DSI7&6	-0.02	0.119	23.56	24.50	1.242	0.148	/
		Back Side	15	4233	846.60	DSI7&6	-0.03	0.181	23.56	24.50	1.242	**0.225**	20
Hotspot													
Ant.13	RMC	Front Side	10	4233	846.60	DSI6	0.00	0.161	23.38	24.50	1.294	0.208	/
		Back Side	10	4233	846.60	DSI6	0.09	0.250	23.38	24.50	1.294	0.324	/
		Left Edge	10	4233	846.60	DSI6	0.07	0.053	23.38	24.50	1.294	0.069	/
		Right Edge	10	4233	846.60	DSI6	0.02	0.114	23.38	24.50	1.294	0.148	/
		Top Edge	10	4233	846.60	DSI6	0.12	0.186	23.38	24.50	1.294	0.241	/
Ant.41	RMC	Front Side	10	4233	846.60	DSI6	0.17	0.203	23.56	24.50	1.242	0.252	/
		Back Side	10	4233	846.60	DSI6	0.00	0.374	23.56	24.50	1.242	**0.464**	21
		Left Edge	10	4233	846.60	DSI6	0.06	0.011	23.56	24.50	1.242	0.014	/
		Right Edge	10	4233	846.60	DSI6	-0.08	0.168	23.56	24.50	1.242	0.209	/
		Bottom Edge	10	4233	846.60	DSI6	-0.14	0.080	23.56	24.50	1.242	0.099	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.6LTE Band 2 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.13	QPSK	Left Cheek	0	18900	1880.00	1	Mid	DSI2	0.11	0.342	13.93	15.00	1.279	0.438	/
			0	18900	1880.00	50	Mid	DSI2	-0.17	0.338	13.79	15.00	1.321	0.447	/
		Left Tilt	0	18900	1880.00	1	Mid	DSI2	0.15	0.390	13.93	15.00	1.279	0.499	/
			0	18900	1880.00	50	Mid	DSI2	0.06	0.386	13.79	15.00	1.321	0.510	/
		Right Cheek	0	18900	1880.00	1	Mid	DSI2	0.11	0.549	13.93	15.00	1.279	0.702	/
			0	18900	1880.00	50	Mid	DSI2	-0.04	0.538	13.79	15.00	1.321	0.711	/
		Right Tilt	0	18900	1880.00	1	Mid	DSI2	-0.10	0.625	13.93	15.00	1.279	0.800	/
			0	18700	1860.00	1	Mid	DSI2	-0.06	0.669	13.91	15.00	1.285	0.860	/
			0	19100	1900.00	1	Mid	DSI2	0.04	0.630	13.85	15.00	1.303	0.821	/
			0	18900	1880.00	50	Mid	DSI2	-0.02	0.637	13.79	15.00	1.321	0.842	/
			0	18700	1860.00	50	Mid	DSI2	0.10	0.667	13.74	15.00	1.337	**0.892**	22
			0	19100	1900.00	50	Mid	DSI2	0.06	0.624	13.71	15.00	1.346	0.840	/
			0	18900	1880.00	100	Low	DSI2	-0.06	0.611	13.70	15.00	1.349	0.824	/
Ant.13	QPSK	Left Cheek	0	18900	1880.00	1	Mid	DSI3	0.15	0.271	12.95	14.00	1.274	0.345	/
			0	18900	1880.00	50	Mid	DSI3	-0.15	0.268	12.79	14.00	1.321	0.354	/
		Left Tilt	0	18900	1880.00	1	Mid	DSI3	-0.19	0.305	12.95	14.00	1.274	0.388	/
			0	18900	1880.00	50	Mid	DSI3	0.19	0.310	12.79	14.00	1.321	0.410	/
		Right Cheek	0	18900	1880.00	1	Mid	DSI3	0.09	0.353	12.95	14.00	1.274	0.450	/
			0	18900	1880.00	50	Mid	DSI3	0.10	0.356	12.79	14.00	1.321	0.470	/
		Right Tilt	0	18900	1880.00	1	Mid	DSI3	-0.09	0.511	12.95	14.00	1.274	0.651	/
			0	18900	1880.00	50	Mid	DSI3	-0.14	0.509	12.79	14.00	1.321	0.673	/
Ant.31	QPSK	Left Cheek	0	18900	1880.00	1	Mid	DSI2&3	0.18	0.122	22.83	24.20	1.371	0.167	/
			0	18900	1880.00	50	Mid	DSI2&3	0.08	0.098	21.69	23.20	1.416	0.139	/
		Left Tilt	0	18900	1880.00	1	Mid	DSI2&3	0.19	0.100	22.83	24.20	1.371	0.137	/
			0	18900	1880.00	50	Mid	DSI2&3	-0.19	0.079	21.69	23.20	1.416	0.112	/
		Right Cheek	0	18900	1880.00	1	Mid	DSI2&3	0.13	0.100	22.83	24.20	1.371	0.137	/
			0	18900	1880.00	50	Mid	DSI2&3	-0.02	0.079	21.69	23.20	1.416	0.112	/
		Right Tilt	0	18900	1880.00	1	Mid	DSI2&3	-0.17	0.092	22.83	24.20	1.371	0.126	/
			0	18900	1880.00	50	Mid	DSI2&3	0.04	0.072	21.69	23.20	1.416	0.102	/
Body-worn Accessory															
Ant.13	QPSK	Front Side	15	18900	1880.00	1	Mid	DSI7	-0.02	0.479	23.10	24.00	1.230	0.589	/
			15	18900	1880.00	50	Mid	DSI7	0.00	0.402	21.94	23.00	1.276	0.513	/
		Back Side	15	18900	1880.00	1	Mid	DSI7	-0.09	0.641	23.10	24.00	1.230	**0.789**	23
			15	18900	1880.00	50	Mid	DSI7	0.02	0.507	21.94	23.00	1.276	0.647	/
Ant.13	QPSK	Front Side	15	18900	1880.00	1	Mid	DSI6	-0.18	0.135	17.68	18.50	1.208	0.163	/
			15	18900	1880.00	50	Mid	DSI6	0.14	0.143	17.52	18.50	1.253	0.179	/
		Back Side	15	18900	1880.00	1	Mid	DSI6	0.19	0.169	17.68	18.50	1.208	0.204	/
			15	18900	1880.00	50	Mid	DSI6	0.17	0.180	17.52	18.50	1.253	0.225	/
Ant.31	QPSK	Front Side	15	18900	1880.00	1	Mid	DSI7&6	-0.03	0.151	21.19	22.20	1.262	0.191	/
			15	18900	1880.00	50	Mid	DSI7&6	-0.14	0.151	21.09	22.20	1.291	0.195	/

		Back Side	15	18900	1880.00	1	Mid	DSI7&6	-0.05	0.273	21.19	22.20	1.262	0.344	/
			15	18900	1880.00	50	Mid	DSI7&6	0.11	0.272	21.09	22.20	1.291	0.351	/
Hotspot															
Ant.13	QPSK	Front Side	10	18900	1880.00	1	Mid	DSI6	0.18	0.277	17.68	18.50	1.208	0.335	/
			10	18900	1880.00	50	Mid	DSI6	0.07	0.276	17.52	18.50	1.253	0.346	/
		Back Side	10	18900	1880.00	1	Mid	DSI6	0.10	0.364	17.68	18.50	1.208	0.440	/
			10	18900	1880.00	50	Mid	DSI6	0.14	0.364	17.52	18.50	1.253	0.456	/
		Left Edge	10	18900	1880.00	1	Mid	DSI6	-0.05	0.020	17.68	18.50	1.208	0.024	/
			10	18900	1880.00	50	Mid	DSI6	-0.07	0.020	17.52	18.50	1.253	0.025	/
		Right Edge	10	18900	1880.00	1	Mid	DSI6	-0.05	0.063	17.68	18.50	1.208	0.076	/
			10	18900	1880.00	50	Mid	DSI6	0.10	0.062	17.52	18.50	1.253	0.078	/
		Top Edge	10	18900	1880.00	1	Mid	DSI6	-0.12	0.492	17.68	18.50	1.208	0.594	/
			10	18900	1880.00	50	Mid	DSI6	-0.11	0.489	17.52	18.50	1.253	0.613	/
Ant.31	QPSK	Front Side	10	18900	1880.00	1	Mid	DSI6	-0.04	0.263	21.19	22.20	1.262	0.332	/
			10	18900	1880.00	50	Mid	DSI6	-0.05	0.262	21.09	22.20	1.291	0.338	/
		Back Side	10	18900	1880.00	1	Mid	DSI6	-0.13	0.514	21.19	22.20	1.262	0.649	/
			10	18900	1880.00	50	Mid	DSI6	-0.04	0.512	21.09	22.20	1.291	0.661	/
		Left Edge	10	18900	1880.00	1	Mid	DSI6	0.00	0.158	21.19	22.20	1.262	0.199	/
			10	18900	1880.00	50	Mid	DSI6	-0.14	0.159	21.09	22.20	1.291	0.205	/
		Right Edge	10	18900	1880.00	1	Mid	DSI6	-0.01	0.098	21.19	22.20	1.262	0.124	/
			10	18900	1880.00	50	Mid	DSI6	-0.12	0.098	21.09	22.20	1.291	0.127	/
		Bottom Edge	10	18900	1880.00	1	Mid	DSI6	0.05	0.546	21.19	22.20	1.262	0.689	/
			10	18900	1880.00	50	Mid	DSI6	0.06	0.547	21.09	22.20	1.291	**0.706**	24
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.13	QPSK	Back Side	0	18900	1880.00	1	Mid	DSI4	-0.14	1.060	19.11	20.00	1.227	1.301	/
			0	18900	1880.00	50	Mid	DSI4	0.09	1.060	19.04	20.00	1.247	1.322	/
		Top Edge	0	18900	1880.00	1	Mid	DSI4	0.14	1.140	19.11	20.00	1.227	1.399	/
			0	18900	1880.00	50	Mid	DSI4	-0.09	1.150	19.04	20.00	1.247	1.434	/
Ant.13	QPSK	Back Side	0	18900	1880.00	1	Mid	DSI5	0.08	0.751	17.68	18.50	1.208	0.907	/
			0	18900	1880.00	50	Mid	DSI5	-0.01	0.748	17.52	18.50	1.253	0.937	/
		Top Edge	0	18900	1880.00	1	Mid	DSI5	-0.07	0.813	17.68	18.50	1.208	0.982	/
			0	18900	1880.00	50	Mid	DSI5	0.06	0.814	17.52	18.50	1.253	1.020	/
Ant.31	QPSK	Bottom Edge	0	18900	1880.00	1	Mid	DSI7&6	-0.10	1.620	21.19	22.20	1.262	2.044	/
			0	18700	1860.00	1	Mid	DSI7&6	-0.04	1.570	21.17	22.20	1.268	1.990	/
			0	19100	1900.00	1	Mid	DSI7&6	0.08	1.520	21.05	22.20	1.303	1.981	/
			0	18900	1880.00	50	Mid	DSI7&6	-0.05	1.810	21.09	22.20	1.291	**2.337**	25
			0	18700	1860.00	50	Mid	DSI7&6	0.17	1.780	21.08	22.20	1.294	2.304	/
			0	19100	1900.00	50	Mid	DSI7&6	0.09	1.740	21.01	22.20	1.315	2.288	/
			0	18700	1860.00	100	Low	DSI7&6	0.08	1.680	21.04	22.20	1.306	2.194	/
P-Sensor off															
Ant.13	QPSK	Front Side	8	18900	1880.00	1	Mid	Off	0.18	0.657	23.10	24.00	1.230	0.808	/
			8	18900	1880.00	50	Mid	Off	-0.07	0.523	21.94	23.00	1.276	0.668	/
		Back Side	11	18900	1880.00	1	Mid	Off	-0.07	0.582	23.10	24.00	1.230	0.716	/
			11	18900	1880.00	50	Mid	Off	0.18	0.461	21.94	23.00	1.276	0.588	/
		Top Edge	13	18900	1880.00	1	Mid	Off	-0.04	0.660	23.10	24.00	1.230	**0.812**	26
			13	18900	1880.00	50	Mid	Off	0.18	0.563	21.94	23.00	1.276	0.719	/
Ant.31	QPSK	Front Side	8	18900	1880.00	1	Mid	Off	0.05	0.296	22.83	24.20	1.371	0.406	/
			8	18900	1880.00	50	Mid	Off	-0.11	0.233	21.69	23.20	1.416	0.330	/
		Back Side	11	18900	1880.00	1	Mid	Off	0.07	0.382	22.83	24.20	1.371	0.524	/
			11	18900	1880.00	50	Mid	Off	-0.18	0.301	21.69	23.20	1.416	0.426	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.7LTE Band 4 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.13	QPSK	Left Cheek	0	20175	1732.50	1	Mid	DSI2	-0.16	0.235	13.99	15.00	1.262	0.297	/
			0	20175	1732.50	50	High	DSI2	-0.05	0.233	13.84	15.00	1.306	0.304	/
		Left Tilt	0	20175	1732.50	1	Mid	DSI2	-0.08	0.273	13.99	15.00	1.262	0.344	/
			0	20175	1732.50	50	High	DSI2	-0.05	0.269	13.84	15.00	1.306	0.351	/
		Right Cheek	0	20175	1732.50	1	Mid	DSI2	-0.15	0.326	13.99	15.00	1.262	0.411	/
			0	20175	1732.50	50	High	DSI2	-0.05	0.326	13.84	15.00	1.306	0.426	/
		Right Tilt	0	20175	1732.50	1	Mid	DSI2	-0.06	0.470	13.99	15.00	1.262	**0.593**	27
			0	20175	1732.50	50	High	DSI2	-0.03	0.414	13.84	15.00	1.306	0.541	/
Ant.13	QPSK	Left Cheek	0	20175	1732.50	1	Mid	DSI3	0.06	0.210	13.48	14.50	1.265	0.266	/
			0	20175	1732.50	50	High	DSI3	0.07	0.208	13.36	14.50	1.300	0.270	/
		Left Tilt	0	20175	1732.50	1	Mid	DSI3	0.17	0.243	13.48	14.50	1.265	0.307	/
			0	20175	1732.50	50	High	DSI3	-0.15	0.240	13.36	14.50	1.300	0.312	/
		Right Cheek	0	20175	1732.50	1	Mid	DSI3	0.04	0.291	13.48	14.50	1.265	0.368	/
			0	20175	1732.50	50	High	DSI3	-0.14	0.291	13.36	14.50	1.300	0.378	/
		Right Tilt	0	20175	1732.50	1	Mid	DSI3	0.04	0.374	13.48	14.50	1.265	0.473	/
			0	20175	1732.50	50	High	DSI3	-0.14	0.376	13.36	14.50	1.300	0.489	/
Ant.31	QPSK	Left Cheek	0	20175	1732.50	1	Mid	DSI2&3	0.12	0.126	23.14	24.20	1.276	0.161	/
			0	20175	1732.50	50	Mid	DSI2&3	-0.18	0.102	21.99	23.20	1.321	0.135	/
		Left Tilt	0	20175	1732.50	1	Mid	DSI2&3	0.08	0.089	23.14	24.20	1.276	0.114	/
			0	20175	1732.50	50	Mid	DSI2&3	-0.09	0.070	21.99	23.20	1.321	0.092	/
		Right Cheek	0	20175	1732.50	1	Mid	DSI2&3	-0.15	0.075	23.14	24.20	1.276	0.096	/
			0	20175	1732.50	50	Mid	DSI2&3	-0.11	0.060	21.99	23.20	1.321	0.079	/
		Right Tilt	0	20175	1732.50	1	Mid	DSI2&3	0.07	0.078	23.14	24.20	1.276	0.100	/
			0	20175	1732.50	50	Mid	DSI2&3	-0.11	0.067	21.99	23.20	1.321	0.089	/
Body-worn Accessory															
Ant.13	QPSK	Front Side	15	20175	1732.50	1	Mid	DSI7	0.16	0.316	22.77	24.00	1.327	0.419	/
			15	20175	1732.50	50	Mid	DSI7	-0.12	0.271	21.71	23.00	1.346	0.365	/
		Back Side	15	20175	1732.50	1	Mid	DSI7	-0.09	0.391	22.77	24.00	1.327	**0.519**	28
			15	20175	1732.50	50	Mid	DSI7	0.11	0.314	21.71	23.00	1.346	0.423	/
Ant.13	QPSK	Front Side	15	20175	1732.50	1	Mid	DSI6	-0.12	0.126	19.22	20.00	1.197	0.151	/
			15	20175	1732.50	50	High	DSI6	-0.03	0.136	19.10	20.00	1.230	0.167	/
		Back Side	15	20175	1732.50	1	Mid	DSI6	0.00	0.145	19.22	20.00	1.197	0.174	/
			15	20175	1732.50	50	High	DSI6	0.04	0.157	19.10	20.00	1.230	0.194	/
Ant.31	QPSK	Front Side	15	20175	1732.50	1	Mid	DSI7&6	-0.01	0.246	22.23	23.20	1.250	0.308	/
			15	20175	1732.50	50	Mid	DSI7&6	0.12	0.231	22.09	23.20	1.291	0.298	/
		Back Side	15	20175	1732.50	1	Mid	DSI7&6	0.16	0.337	22.23	23.20	1.250	0.421	/
			15	20175	1732.50	50	Mid	DSI7&6	0.09	0.334	22.09	23.20	1.291	0.431	/
Hotspot															
Ant.13	QPSK	Front Side	10	20175	1732.50	1	Mid	DSI6	0.17	0.263	19.22	20.00	1.197	0.315	/
			10	20175	1732.50	50	High	DSI6	0.12	0.283	19.10	20.00	1.230	0.348	/

		Back Side	10	20175	1732.50	1	Mid	DSI6	-0.12	0.290	19.22	20.00	1.197	0.347	/
			10	20175	1732.50	50	High	DSI6	-0.01	0.314	19.10	20.00	1.230	0.386	/
		Left Edge	10	20175	1732.50	1	Mid	DSI6	-0.08	0.016	19.22	20.00	1.197	0.019	/
			10	20175	1732.50	50	High	DSI6	0.18	0.019	19.10	20.00	1.230	0.023	/
		Right Edge	10	20175	1732.50	1	Mid	DSI6	-0.18	0.066	19.22	20.00	1.197	0.079	/
			10	20175	1732.50	50	High	DSI6	-0.11	0.072	19.10	20.00	1.230	0.089	/
		Top Edge	10	20175	1732.50	1	Mid	DSI6	0.09	0.397	19.22	20.00	1.197	0.475	/
			10	20175	1732.50	50	High	DSI6	-0.17	0.446	19.10	20.00	1.230	0.549	/
Ant.31	QPSK	Front Side	10	20175	1732.50	1	Mid	DSI6	-0.03	0.417	22.23	23.20	1.250	0.521	/
			10	20175	1732.50	50	Mid	DSI6	0.18	0.419	22.09	23.20	1.291	0.541	/
		Back Side	10	20175	1732.50	1	Mid	DSI6	-0.01	0.634	22.23	23.20	1.250	0.793	/
			10	20175	1732.50	50	Mid	DSI6	0.00	0.559	22.09	23.20	1.291	0.722	/
		Left Edge	10	20175	1732.50	1	Mid	DSI6	0.16	0.205	22.23	23.20	1.250	0.256	/
			10	20175	1732.50	50	Mid	DSI6	0.05	0.211	22.09	23.20	1.291	0.272	/
		Right Edge	10	20175	1732.50	1	Mid	DSI6	0.17	0.083	22.23	23.20	1.250	0.104	/
			10	20175	1732.50	50	Mid	DSI6	0.07	0.084	22.09	23.20	1.291	0.108	/
		Bottom Edge	10	20175	1732.50	1	Mid	DSI6	-0.01	0.653	22.23	23.20	1.250	0.816	/
			10	20050	1720.00	1	Mid	DSI6	0.04	0.641	22.09	23.20	1.291	0.828	/
			10	20300	1745.00	1	Mid	DSI6	-0.15	0.638	22.20	23.20	1.259	0.803	/
			10	20175	1732.50	50	Mid	DSI6	0.03	0.658	22.09	23.20	1.291	**0.850**	29
			10	20050	1720.00	50	Mid	DSI6	0.16	0.640	22.00	23.20	1.318	0.844	/
			10	20300	1745.00	50	Low	DSI6	-0.07	0.637	22.08	23.20	1.294	0.824	/
			10	20300	1745.00	100	Low	DSI6	0.10	0.629	22.06	23.20	1.300	0.818	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.13	QPSK	Top Edge	0	20175	1732.50	1	Mid	DSI4	0.12	1.380	20.13	21.00	1.222	1.686	/
			0	20175	1732.50	50	High	DSI4	-0.16	1.400	20.06	21.00	1.242	1.738	/
Ant.13	QPSK	Top Edge	0	20175	1732.50	1	Mid	DSI5	0.13	1.120	19.22	20.00	1.197	1.340	/
			0	20175	1732.50	50	High	DSI5	0.02	1.130	19.10	20.00	1.230	1.390	/
Ant.31	QPSK	Bottom Edge	0	20175	1732.50	1	Mid	DSI7&6	-0.16	2.000	22.23	23.20	1.250	2.501	/
			0	20050	1720.00	1	Mid	DSI7&6	0.01	1.980	22.09	23.20	1.291	2.557	/
			0	20300	1745.00	1	Mid	DSI7&6	-0.07	1.860	22.20	23.20	1.259	2.342	/
			0	20175	1732.50	50	Mid	DSI7&6	0.02	2.120	22.09	23.20	1.291	**2.737**	30
			0	20050	1720.00	50	Mid	DSI7&6	-0.09	2.070	22.00	23.20	1.318	2.729	/
			0	20300	1745.00	50	Low	DSI7&6	0.19	1.970	22.08	23.20	1.294	2.550	/
			0	20300	1745.00	100	Low	DSI7&6	0.02	1.740	22.06	23.20	1.300	2.262	/
Specific-Repated SAR															
Ant.31	QPSK	Bottom Edge	0	20175	1732.50	50	Mid	DSI7&6	0.05	2.010	22.09	23.20	1.291	2.595	/
P-Sensor off															
Ant.13	QPSK	Front Side	8	20175	1732.50	1	Mid	Off	-0.13	0.568	22.77	24.00	1.327	**0.754**	31
			8	20175	1732.50	50	Mid	Off	0.01	0.384	21.71	23.00	1.346	0.517	/
		Back Side	11	20175	1732.50	1	Mid	Off	-0.19	0.400	22.77	24.00	1.327	0.531	/
			11	20175	1732.50	50	Mid	Off	-0.16	0.322	21.71	23.00	1.346	0.433	/
		Top Edge	13	20175	1732.50	1	Mid	Off	0.13	0.419	22.77	24.00	1.327	0.556	/
			13	20175	1732.50	50	Mid	Off	0.12	0.339	21.71	23.00	1.346	0.456	/
Ant.31	QPSK	Front Side	8	20175	1732.50	1	Mid	Off	0.06	0.375	23.14	24.20	1.276	0.479	/
			8	20175	1732.50	50	Mid	Off	-0.04	0.493	21.99	23.20	1.321	0.651	/
		Back Side	11	20175	1732.50	1	Mid	Off	0.14	0.380	23.14	24.20	1.276	0.485	/
			11	20175	1732.50	50	Mid	Off	-0.19	0.499	21.99	23.20	1.321	0.659	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.8 LTE Band 5 (10MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.13	QPSK	Left Cheek	0	20600	844.00	1	Mid	DSI2	0.12	0.546	22.62	23.50	1.225	0.669	/
			0	20600	844.00	25	Low	DSI2	0.11	0.556	22.50	23.50	1.259	0.700	/
		Left Tilt	0	20600	844.00	1	Mid	DSI2	0.07	0.471	22.62	23.50	1.225	0.577	/
			0	20600	844.00	25	Low	DSI2	0.11	0.479	22.50	23.50	1.259	0.603	/
		Right Cheek	0	20600	844.00	1	Mid	DSI2	-0.06	0.590	22.62	23.50	1.225	0.723	/
			0	20600	844.00	25	Low	DSI2	-0.04	0.616	22.50	23.50	1.259	**0.775**	32
		Right Tilt	0	20600	844.00	1	Mid	DSI2	0.14	0.587	22.62	23.50	1.225	0.719	/
			0	20600	844.00	25	Low	DSI2	-0.19	0.591	22.50	23.50	1.259	0.744	/
Ant.13	QPSK	Left Cheek	0	20600	844.00	1	Mid	DSI3	0.13	0.434	21.65	22.50	1.216	0.528	/
			0	20600	844.00	25	Mid	DSI3	0.00	0.442	21.54	22.50	1.247	0.551	/
		Left Tilt	0	20600	844.00	1	Mid	DSI3	-0.15	0.374	21.65	22.50	1.216	0.455	/
			0	20600	844.00	25	Mid	DSI3	-0.05	0.381	21.54	22.50	1.247	0.475	/
		Right Cheek	0	20600	844.00	1	Mid	DSI3	-0.14	0.490	21.65	22.50	1.216	0.596	/
			0	20600	844.00	25	Mid	DSI3	-0.18	0.495	21.54	22.50	1.247	0.617	/
		Right Tilt	0	20600	844.00	1	Mid	DSI3	-0.01	0.474	21.65	22.50	1.216	0.576	/
			0	20600	844.00	25	Mid	DSI3	0.13	0.481	21.54	22.50	1.247	0.600	/
Ant.41	QPSK	Left Cheek	0	20600	844.00	1	Mid	DSI2&3	-0.16	0.175	23.27	24.50	1.327	0.232	/
			0	20600	844.00	25	Low	DSI2&3	0.11	0.133	22.18	23.50	1.355	0.180	/
		Left Tilt	0	20600	844.00	1	Mid	DSI2&3	0.11	0.089	23.27	24.50	1.327	0.118	/
			0	20600	844.00	25	Low	DSI2&3	0.08	0.067	22.18	23.50	1.355	0.091	/
		Right Cheek	0	20600	844.00	1	Mid	DSI2&3	-0.16	0.140	23.27	24.50	1.327	0.186	/
			0	20600	844.00	25	Low	DSI2&3	0.17	0.104	22.18	23.50	1.355	0.141	/
		Right Tilt	0	20600	844.00	1	Mid	DSI2&3	-0.16	0.064	23.27	24.50	1.327	0.085	/
			0	20600	844.00	25	Low	DSI2&3	-0.05	0.048	22.18	23.50	1.355	0.065	/
Body-worn Accessory															
Ant.13	QPSK	Front Side	15	20600	844.00	1	Mid	DSI7&6	0.08	0.104	23.74	24.50	1.191	0.124	/
			15	20600	844.00	25	Low	DSI7&6	0.17	0.082	22.64	23.50	1.219	0.100	/
		Back Side	15	20600	844.00	1	Mid	DSI7&6	0.08	0.120	23.74	24.50	1.191	0.143	/
			15	20600	844.00	25	Low	DSI7&6	-0.17	0.100	22.64	23.50	1.219	0.122	/
Ant.41	QPSK	Front Side	15	20600	844.00	1	Mid	DSI7&6	-0.15	0.121	23.27	24.50	1.327	0.161	/
			15	20600	844.00	25	Low	DSI7&6	0.14	0.093	22.18	23.50	1.355	0.126	/
		Back Side	15	20600	844.00	1	Mid	DSI7&6	0.08	0.220	23.27	24.50	1.327	**0.292**	33
			15	20600	844.00	25	Low	DSI7&6	-0.16	0.145	22.18	23.50	1.355	0.197	/
Hotspot															
Ant.13	QPSK	Front Side	10	20600	844.00	1	Mid	DSI6	0.09	0.157	23.74	24.50	1.191	0.187	/
			10	20600	844.00	25	Low	DSI6	0.19	0.130	22.64	23.50	1.219	0.158	/
		Back Side	10	20600	844.00	1	Mid	DSI6	-0.01	0.244	23.74	24.50	1.191	0.291	/
			10	20600	844.00	25	Low	DSI6	0.07	0.202	22.64	23.50	1.219	0.246	
		Left Edge	10	20600	844.00	1	Mid	DSI6	-0.16	0.103	23.74	24.50	1.191	0.123	/
			10	20600	844.00	25	Low	DSI6	0.19	0.081	22.64	23.50	1.219	0.099	/

		Right Edge	10	20600	844.00	1	Mid	DSI6	-0.19	0.088	23.74	24.50	1.191	0.105	/
			10	20600	844.00	25	Low	DSI6	0.15	0.067	22.64	23.50	1.219	0.082	/
		Top Edge	10	20600	844.00	1	Mid	DSI6	-0.02	0.191	23.74	24.50	1.191	0.228	/
			10	20600	844.00	25	Low	DSI6	-0.01	0.155	22.64	23.50	1.219	0.189	/
Ant.41	QPSK	Front Side	10	20600	844.00	1	Mid	DSI6	0.16	0.200	23.27	24.50	1.327	0.265	/
			10	20600	844.00	25	Low	DSI6	-0.18	0.157	22.18	23.50	1.355	0.213	/
		Back Side	10	20600	844.00	1	Mid	DSI6	0.14	0.358	23.27	24.50	1.327	**0.475**	34
			10	20600	844.00	25	Low	DSI6	-0.01	0.245	22.18	23.50	1.355	0.332	/
		Left Edge	10	20600	844.00	1	Mid	DSI6	0.19	0.087	23.27	24.50	1.327	0.115	/
			10	20600	844.00	25	Low	DSI6	0.10	0.067	22.18	23.50	1.355	0.091	/
		Right Edge	10	20600	844.00	1	Mid	DSI6	0.16	0.170	23.27	24.50	1.327	0.226	/
			10	20600	844.00	25	Low	DSI6	0.13	0.135	22.18	23.50	1.355	0.183	/
		Bottom Edge	10	20600	844.00	1	Mid	DSI6	-0.04	0.100	23.27	24.50	1.327	0.133	/
			10	20600	844.00	25	Low	DSI6	-0.06	0.076	22.18	23.50	1.355	0.103	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.9LTE Band 7 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.13	QPSK	Left Cheek	0	21100	2535.00	1	Mid	DSI2	0.05	0.152	17.32	18.00	1.169	0.178	/
			0	21100	2535.00	50	Mid	DSI2	0.16	0.153	17.03	18.00	1.250	0.191	/
		Left Tilt	0	21100	2535.00	1	Mid	DSI2	0.02	0.198	17.32	18.00	1.169	0.232	/
			0	21100	2535.00	50	Mid	DSI2	-0.13	0.197	17.03	18.00	1.250	0.246	/
		Right Cheek	0	21100	2535.00	1	Mid	DSI2	0.04	0.444	17.32	18.00	1.169	0.519	/
			0	21100	2535.00	50	Mid	DSI2	-0.01	0.408	17.03	18.00	1.250	0.510	/
		Right Tilt	0	21100	2535.00	1	Mid	DSI2	0.06	0.463	17.32	18.00	1.169	**0.541**	35
			0	21100	2535.00	50	Mid	DSI2	-0.02	0.419	17.03	18.00	1.250	0.524	/
Ant.13	QPSK	Left Cheek	0	21100	2535.00	1	Mid	DSI3	-0.15	0.119	16.28	17.00	1.180	0.140	/
			0	21100	2535.00	50	Mid	DSI3	0.11	0.121	16.07	17.00	1.239	0.150	/
		Left Tilt	0	21100	2535.00	1	Mid	DSI3	-0.16	0.155	16.28	17.00	1.180	0.183	/
			0	21100	2535.00	50	Mid	DSI3	-0.18	0.157	16.07	17.00	1.239	0.194	/
		Right Cheek	0	21100	2535.00	1	Mid	DSI3	0.15	0.318	16.28	17.00	1.180	0.375	/
			0	21100	2535.00	50	Mid	DSI3	0.00	0.324	16.07	17.00	1.239	0.401	/
		Right Tilt	0	21100	2535.00	1	Mid	DSI3	-0.11	0.403	16.28	17.00	1.180	0.476	/
			0	21100	2535.00	50	Mid	DSI3	0.01	0.406	16.07	17.00	1.239	0.503	/
Ant.31	QPSK	Left Cheek	0	21100	2535.00	1	Mid	DSI2&3	-0.10	0.181	22.54	23.50	1.247	0.226	/
			0	21100	2535.00	50	Mid	DSI2&3	0.05	0.146	21.51	22.50	1.256	0.183	/
		Left Tilt	0	21100	2535.00	1	Mid	DSI2&3	-0.12	0.113	22.54	23.50	1.247	0.141	/
			0	21100	2535.00	50	Mid	DSI2&3	-0.02	0.092	21.51	22.50	1.256	0.116	/
		Right Cheek	0	21100	2535.00	1	Mid	DSI2&3	-0.01	0.329	22.54	23.50	1.247	0.410	/
			0	21100	2535.00	50	Mid	DSI2&3	0.06	0.265	21.51	22.50	1.256	0.333	/
		Right Tilt	0	21100	2535.00	1	Mid	DSI2&3	0.13	0.189	22.54	23.50	1.247	0.236	/
			0	21100	2535.00	50	Mid	DSI2&3	-0.19	0.150	21.51	22.50	1.256	0.188	/
Body-worn Accessory															
Ant.13	QPSK	Front Side	15	21100	2535.00	1	Mid	DSI7	0.14	0.159	22.73	23.50	1.194	0.190	/
			15	21100	2535.00	50	Mid	DSI7	-0.03	0.136	21.57	22.50	1.239	0.168	/
		Back Side	15	21100	2535.00	1	Mid	DSI7	0.00	0.333	22.73	23.50	1.194	**0.398**	36
			15	21100	2535.00	50	Mid	DSI7	-0.01	0.268	21.57	22.50	1.239	0.332	/
Ant.13	QPSK	Front Side	15	21100	2535.00	1	Mid	DSI6	-0.02	0.050	17.89	18.50	1.151	0.058	/
			15	21100	2535.00	50	High	DSI6	0.17	0.054	17.73	18.50	1.194	0.065	/
		Back Side	15	21100	2535.00	1	Mid	DSI6	-0.06	0.101	17.89	18.50	1.151	0.116	/
			15	21100	2535.00	50	High	DSI6	0.07	0.107	17.73	18.50	1.194	0.127	/
Ant.31	QPSK	Front Side	15	21100	2535.00	1	Mid	DSI7&6	-0.04	0.166	21.23	22.00	1.194	0.198	/
			15	21100	2535.00	50	Mid	DSI7&6	0.10	0.168	21.14	22.00	1.219	0.205	/
		Back Side	15	21100	2535.00	1	Mid	DSI7&6	0.18	0.280	21.23	22.00	1.194	0.334	/
			15	21100	2535.00	50	Mid	DSI7&6	0.16	0.282	21.14	22.00	1.219	0.344	/
Hotspot															
Ant.13	QPSK	Front Side	10	21100	2535.00	1	Mid	DSI6	-0.15	0.095	17.89	18.50	1.151	0.109	/
			10	21100	2535.00	50	High	DSI6	0.11	0.101	17.73	18.50	1.194	0.121	/

		Back Side	10	21100	2535.00	1	Mid	DSI6	-0.11	0.220	17.89	18.50	1.151	0.253	/
			10	21100	2535.00	50	High	DSI6	-0.02	0.234	17.73	18.50	1.194	0.279	/
		Left Edge	10	21100	2535.00	1	Mid	DSI6	-0.15	0.013	17.89	18.50	1.151	0.015	/
			10	21100	2535.00	50	High	DSI6	-0.05	0.015	17.73	18.50	1.194	0.018	/
		Right Edge	10	21100	2535.00	1	Mid	DSI6	0.04	0.161	17.89	18.50	1.151	0.185	/
			10	21100	2535.00	50	High	DSI6	-0.03	0.174	17.73	18.50	1.194	0.208	/
		Top Edge	10	21100	2535.00	1	Mid	DSI6	0.06	0.201	17.89	18.50	1.151	0.231	/
			10	21100	2535.00	50	High	DSI6	-0.18	0.220	17.73	18.50	1.194	0.263	/
Ant.31	QPSK	Front Side	10	21100	2535.00	1	Mid	DSI6	-0.02	0.326	21.23	22.00	1.194	0.389	/
			10	21100	2535.00	50	Mid	DSI6	0.18	0.325	21.14	22.00	1.219	0.396	/
		Back Side	10	21100	2535.00	1	Mid	DSI6	-0.04	0.392	21.23	22.00	1.194	0.468	/
			10	21100	2535.00	50	Mid	DSI6	-0.04	0.388	21.14	22.00	1.219	**0.473**	37
		Left Edge	10	21100	2535.00	1	Mid	DSI6	0.18	0.252	21.23	22.00	1.194	0.301	/
			10	21100	2535.00	50	Mid	DSI6	0.09	0.253	21.14	22.00	1.219	0.308	/
		Right Edge	10	21100	2535.00	1	Mid	DSI6	-0.08	0.055	21.23	22.00	1.194	0.066	/
			10	21100	2535.00	50	Mid	DSI6	-0.19	0.053	21.14	22.00	1.219	0.065	/
		Bottom Edge	10	21100	2535.00	1	Mid	DSI6	0.14	0.282	21.23	22.00	1.194	0.337	/
			10	21100	2535.00	50	Mid	DSI6	-0.19	0.278	21.14	22.00	1.219	0.339	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
P-Sensor off															
Ant.13	QPSK	Front Side	8	21100	2535.00	1	Mid	Off	0.11	0.215	22.73	23.50	1.194	0.257	/
			8	21100	2535.00	50	Mid	Off	-0.08	0.168	21.57	22.50	1.239	0.208	/
		Back Side	11	21100	2535.00	1	Mid	Off	-0.13	0.274	22.73	23.50	1.194	0.327	/
			11	21100	2535.00	50	Mid	Off	-0.18	0.236	21.57	22.50	1.239	0.292	/
		Top Edge	13	21100	2535.00	1	Mid	Off	-0.05	0.203	22.73	23.50	1.194	0.242	/
			13	21100	2535.00	50	Mid	Off	0.08	0.158	21.57	22.50	1.239	0.196	/
Ant.31	QPSK	Front Side	8	21100	2535.00	1	Mid	Off	0.05	0.314	22.54	23.50	1.247	**0.392**	38
			8	21100	2535.00	50	Mid	Off	-0.19	0.270	21.51	22.50	1.256	0.339	/
		Back Side	11	21100	2535.00	1	Mid	Off	0.00	0.304	22.54	23.50	1.247	0.379	/
			11	21100	2535.00	50	Mid	Off	-0.18	0.239	21.51	22.50	1.256	0.300	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.10 LTE Band 7 (20MHz Bandwidth) Worse case for CA Test

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.13	QPSK	Right Tilt	0	21100 +20902	2535 +2515.2	1+1	Low +High	DSI2	0.11	0.365	16.59	18.00	1.384	0.505	/
Body-worn Accessory															
Ant.13	QPSK	Back Side	15	21100 +20902	2535 +2515.2	1+1	Low +High	DSI7	0.09	0.268	22.24	23.50	1.337	0.358	/
Hotspot															
Ant.31	QPSK	Back Side	10	21100 +20902	2535 +2515.2	1+1	Low +High	DSI6	0.03	0.301	20.42	22.00	1.439	0.433	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.11 LTE Band 12 (10MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.13	QPSK	Left Cheek	0	23060	704.00	1	Mid	DSI2&3	0.10	0.272	22.40	23.50	1.288	0.350	/
			0	23060	704.00	25	Mid	DSI2&3	0.18	0.229	22.42	23.50	1.282	0.294	/
		Left Tilt	0	23060	704.00	1	Mid	DSI2&3	-0.02	0.244	22.40	23.50	1.288	0.314	/
			0	23060	704.00	25	Mid	DSI2&3	-0.19	0.205	22.42	23.50	1.282	0.263	/
		Right Cheek	0	23060	704.00	1	Mid	DSI2&3	-0.03	0.373	22.40	23.50	1.288	**0.481**	39
			0	23060	704.00	25	Mid	DSI2&3	0.04	0.342	22.42	23.50	1.282	0.439	/
		Right Tilt	0	23060	704.00	1	Mid	DSI2&3	-0.04	0.334	22.40	23.50	1.288	0.430	/
			0	23060	704.00	25	Mid	DSI2&3	-0.08	0.333	22.42	23.50	1.282	0.427	/
Ant.41	QPSK	Left Cheek	0	23060	704.00	1	Mid	DSI2&3	-0.07	0.111	23.38	25.00	1.452	0.161	/
			0	23060	704.00	25	Mid	DSI2&3	-0.06	0.082	22.37	24.00	1.455	0.119	/
		Left Tilt	0	23060	704.00	1	Mid	DSI2&3	-0.04	0.057	23.38	25.00	1.452	0.083	/
			0	23060	704.00	25	Mid	DSI2&3	-0.19	0.044	22.37	24.00	1.455	0.064	/
		Right Cheek	0	23060	704.00	1	Mid	DSI2&3	0.16	0.086	23.38	25.00	1.452	0.125	/
			0	23060	704.00	25	Mid	DSI2&3	-0.01	0.062	22.37	24.00	1.455	0.090	/
		Right Tilt	0	23060	704.00	1	Mid	DSI2&3	0.19	0.045	23.38	25.00	1.452	0.065	/
			0	23060	704.00	25	Mid	DSI2&3	-0.06	0.036	22.37	24.00	1.455	0.052	/
Body-worn Accessory															
Ant.13	QPSK	Front Side	15	23060	704.00	1	Mid	DSI7&6	-0.05	0.087	23.69	24.50	1.205	0.105	/
			15	23060	704.00	25	Mid	DSI7&6	-0.19	0.069	22.54	23.50	1.247	0.086	/
		Back Side	15	23060	704.00	1	Mid	DSI7&6	0.03	0.102	23.69	24.50	1.205	0.123	/
			15	23060	704.00	25	Mid	DSI7&6	0.16	0.081	22.54	23.50	1.247	0.101	/
Ant.41	QPSK	Front Side	15	23060	704.00	1	Mid	DSI7&6	-0.18	0.133	23.38	25.00	1.452	0.193	/
			15	23060	704.00	25	Mid	DSI7&6	0.15	0.096	22.37	24.00	1.455	0.140	/
		Back Side	15	23060	704.00	1	Mid	DSI7&6	0.00	0.234	23.38	25.00	1.452	**0.340**	40
			15	23060	704.00	25	Mid	DSI7&6	0.06	0.137	22.37	24.00	1.455	0.199	/
Hotspot															
Ant.13	QPSK	Front Side	10	23060	704.00	1	Mid	DSI6	0.08	0.079	23.69	24.50	1.205	0.095	/
			10	23060	704.00	25	Mid	DSI6	-0.14	0.062	22.54	23.50	1.247	0.077	/
		Back Side	10	23060	704.00	1	Mid	DSI6	-0.19	0.097	23.69	24.50	1.205	0.117	/
			10	23060	704.00	25	Mid	DSI6	-0.19	0.077	22.54	23.50	1.247	0.096	/
		Left Edge	10	23060	704.00	1	Mid	DSI6	0.15	0.082	23.69	24.50	1.205	0.099	/
			10	23060	704.00	25	Mid	DSI6	-0.14	0.065	22.54	23.50	1.247	0.081	/
		Right Edge	10	23060	704.00	1	Mid	DSI6	-0.15	0.118	23.69	24.50	1.205	0.142	/
			10	23060	704.00	25	Mid	DSI6	0.00	0.103	22.54	23.50	1.247	0.128	/
		Top Edge	10	23060	704.00	1	Mid	DSI6	-0.07	0.055	23.69	24.50	1.205	0.066	/
			10	23060	704.00	25	Mid	DSI6	0.05	0.042	22.54	23.50	1.247	0.052	/
Ant.41	QPSK	Front Side	10	23060	704.00	1	Mid	DSI6	-0.17	0.121	23.38	25.00	1.452	0.176	/
			10	23060	704.00	25	Mid	DSI6	0.18	0.087	22.37	24.00	1.455	0.127	/
		Back Side	10	23060	704.00	1	Mid	DSI6	0.07	0.223	23.38	25.00	1.452	0.324	/
			10	23060	704.00	25	Mid	DSI6	0.19	0.137	22.37	24.00	1.455	0.199	/

		Left Edge	10	23060	704.00	1	Mid	DSI6	-0.12	0.106	23.38	25.00	1.452	0.154	/
			10	23060	704.00	25	Mid	DSI6	0.18	0.074	22.37	24.00	1.455	0.108	/
		Right Edge	10	23060	704.00	1	Mid	DSI6	0.02	0.316	23.38	25.00	1.452	**0.459**	41
			10	23060	704.00	25	Mid	DSI6	0.01	0.265	22.37	24.00	1.455	0.386	/
		Bottom Edge	10	23060	704.00	1	Mid	DSI6	0.02	0.023	23.38	25.00	1.452	0.033	/
			10	23060	704.00	25	Mid	DSI6	-0.13	0.018	22.37	24.00	1.455	0.026	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.12 LTE Band 66 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.13	QPSK	Left Cheek	0	132322	1745.00	1	Mid	DSI2	-0.15	0.279	15.19	16.00	1.205	0.336	/
			0	132322	1745.00	50	Mid	DSI2	-0.08	0.287	14.98	16.00	1.265	0.363	/
		Left Tilt	0	132322	1745.00	1	Mid	DSI2	0.09	0.326	15.19	16.00	1.205	0.393	/
			0	132322	1745.00	50	Mid	DSI2	-0.08	0.335	14.98	16.00	1.265	0.424	/
		Right Cheek	0	132322	1745.00	1	Mid	DSI2	0.03	0.369	15.19	16.00	1.205	0.445	/
			0	132322	1745.00	50	Mid	DSI2	0.05	0.381	14.98	16.00	1.265	0.482	/
		Right Tilt	0	132322	1745.00	1	Mid	DSI2	0.14	0.591	15.19	16.00	1.205	0.712	/
			0	132322	1745.00	50	Mid	DSI2	-0.01	0.602	14.98	16.00	1.265	**0.761**	42
Ant.13	QPSK	Left Cheek	0	132322	1745.00	1	Mid	DSI3	0.19	0.224	14.17	15.00	1.211	0.271	/
			0	132322	1745.00	50	Low	DSI3	-0.13	0.231	14.00	15.00	1.259	0.291	/
		Left Tilt	0	132322	1745.00	1	Mid	DSI3	-0.03	0.262	14.17	15.00	1.211	0.317	/
			0	132322	1745.00	50	Low	DSI3	0.09	0.269	14.00	15.00	1.259	0.339	/
		Right Cheek	0	132322	1745.00	1	Mid	DSI3	-0.03	0.296	14.17	15.00	1.211	0.358	/
			0	132322	1745.00	50	Low	DSI3	-0.10	0.306	14.00	15.00	1.259	0.385	/
		Right Tilt	0	132322	1745.00	1	Mid	DSI3	0.18	0.433	14.17	15.00	1.211	0.524	/
			0	132322	1745.00	50	Low	DSI3	0.16	0.451	14.00	15.00	1.259	0.568	/
Ant.31	QPSK	Left Cheek	0	132322	1745.00	1	Mid	DSI2&3	0.04	0.139	23.03	24.50	1.403	0.195	/
			0	132322	1745.00	50	Mid	DSI2&3	0.19	0.110	21.97	23.50	1.422	0.156	/
		Left Tilt	0	132322	1745.00	1	Mid	DSI2&3	-0.10	0.100	23.03	24.50	1.403	0.140	/
			0	132322	1745.00	50	Mid	DSI2&3	0.10	0.081	21.97	23.50	1.422	0.115	/
		Right Cheek	0	132322	1745.00	1	Mid	DSI2&3	-0.01	0.088	23.03	24.50	1.403	0.123	/
			0	132322	1745.00	50	Mid	DSI2&3	0.04	0.073	21.97	23.50	1.422	0.104	/
		Right Tilt	0	132322	1745.00	1	Mid	DSI2&3	0.10	0.111	23.03	24.50	1.403	0.156	/
			0	132322	1745.00	50	Mid	DSI2&3	-0.15	0.088	21.97	23.50	1.422	0.125	/
Body-worn Accessory															
Ant.13	QPSK	Front Side	15	132322	1745.00	1	Mid	DSI7	-0.04	0.279	23.14	24.00	1.219	0.340	/
			15	132322	1745.00	50	Low	DSI7	0.19	0.237	21.96	23.00	1.271	0.301	/
		Back Side	15	132322	1745.00	1	Mid	DSI7	-0.09	0.297	23.14	24.00	1.219	0.362	/
			15	132322	1745.00	50	Low	DSI7	0.01	0.254	21.96	23.00	1.271	0.323	/
Ant.13	QPSK	Front Side	15	132322	1745.00	1	Mid	DSI6	-0.13	0.111	19.35	20.00	1.161	0.129	/
			15	132322	1745.00	50	Low	DSI6	-0.01	0.119	19.27	20.00	1.183	0.141	/
		Back Side	15	132322	1745.00	1	Mid	DSI6	-0.16	0.118	19.35	20.00	1.161	0.137	/
			15	132322	1745.00	50	Low	DSI6	-0.08	0.127	19.27	20.00	1.183	0.151	/
Ant.31	QPSK	Front Side	15	132322	1745.00	1	Mid	DSI7&6	-0.15	0.198	21.71	23.00	1.346	0.266	/
			15	132322	1745.00	50	Mid	DSI7&6	0.11	0.199	21.63	23.00	1.371	0.273	/
		Back Side	15	132322	1745.00	1	Mid	DSI7&6	0.13	0.285	21.71	23.00	1.346	0.384	/
			15	132322	1745.00	50	Mid	DSI7&6	-0.07	0.321	21.63	23.00	1.371	**0.440**	43
Hotspot															
Ant.13	QPSK	Front Side	10	132322	1745.00	1	Mid	DSI6	0.03	0.227	19.35	20.00	1.161	0.264	/
			10	132322	1745.00	50	Low	DSI6	0.10	0.243	19.27	20.00	1.183	0.287	/

		Back Side	10	132322	1745.00	1	Mid	DSI6	-0.08	0.229	19.35	20.00	1.161	0.266	/
			10	132322	1745.00	50	Low	DSI6	-0.06	0.246	19.27	20.00	1.183	0.291	/
		Left Edge	10	132322	1745.00	1	Mid	DSI6	0.03	0.017	19.35	20.00	1.161	0.020	/
			10	132322	1745.00	50	Low	DSI6	-0.11	0.020	19.27	20.00	1.183	0.024	/
		Right Edge	10	132322	1745.00	1	Mid	DSI6	0.18	0.059	19.35	20.00	1.161	0.069	/
			10	132322	1745.00	50	Low	DSI6	-0.14	0.062	19.27	20.00	1.183	0.073	/
		Top Edge	10	132322	1745.00	1	Mid	DSI6	-0.05	0.411	19.35	20.00	1.161	0.477	/
			10	132322	1745.00	50	Low	DSI6	-0.03	0.402	19.27	20.00	1.183	0.476	
Ant.31	QPSK	Front Side	10	132322	1745.00	1	Mid	DSI6	-0.15	0.331	21.71	23.00	1.346	0.445	/
			10	132322	1745.00	50	Mid	DSI6	0.03	0.332	21.63	23.00	1.371	0.455	/
		Back Side	10	132322	1745.00	1	Mid	DSI6	-0.14	0.587	21.71	23.00	1.346	0.790	/
			10	132322	1745.00	50	Mid	DSI6	0.03	0.612	21.63	23.00	1.371	**0.839**	44
			10	132072	1720.00	50	Mid	DSI6	0.05	0.580	21.43	23.00	1.435	0.833	/
			10	132572	1770.00	50	Low	DSI6	-0.14	0.602	21.60	23.00	1.380	0.831	/
			10	132572	1770.00	100	Low	DSI6	0.17	0.593	21.54	23.00	1.400	0.830	/
		Left Edge	10	132322	1745.00	1	Mid	DSI6	0.01	0.183	21.71	23.00	1.346	0.246	/
			10	132322	1745.00	50	Mid	DSI6	-0.19	0.181	21.63	23.00	1.371	0.248	/
		Right Edge	10	132322	1745.00	1	Mid	DSI6	0.10	0.076	21.71	23.00	1.346	0.102	/
			10	132322	1745.00	50	Mid	DSI6	0.17	0.076	21.63	23.00	1.371	0.104	/
		Bottom Edge	10	132322	1745.00	1	Mid	DSI6	0.03	0.593	21.71	23.00	1.346	0.798	/
			10	132322	1745.00	50	Mid	DSI6	0.07	0.551	21.63	23.00	1.371	0.755	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.13	QPSK	Top Edge	0	132322	1745.00	1	Mid	DSI4	0.05	1.530	20.37	21.00	1.156	1.769	/
			0	132322	1745.00	50	Low	DSI4	0.01	1.510	20.20	21.00	1.202	1.815	/
Ant.13	QPSK	Top Edge	0	132322	1745.00	1	Mid	DSI5	0.00	1.230	19.35	20.00	1.161	1.429	/
			0	132322	1745.00	50	Low	DSI5	-0.16	1.210	19.27	20.00	1.183	1.431	/
Ant.31	QPSK	Bottom Edge	0	132322	1745.00	1	Mid	DSI7&6	-0.09	1.720	21.71	22.50	1.199	2.063	/
			0	132072	1720.00	1	Mid	DSI7&6	0.17	1.680	21.57	22.50	1.239	2.081	/
			0	132572	1770.00	1	Mid	DSI7&6	-0.12	1.590	21.67	22.50	1.211	1.925	/
			0	132322	1745.00	50	Mid	DSI7&6	-0.02	1.820	21.63	22.50	1.222	**2.224**	45
			0	132072	1720.00	50	Mid	DSI7&6	0.06	1.690	21.43	22.50	1.279	2.162	/
			0	132572	1770.00	50	Low	DSI7&6	0.17	1.640	21.60	22.50	1.230	2.018	/
			0	132572	1770.00	100	Low	DSI7&6	0.15	1.520	21.54	22.50	1.247	1.896	/
P-Sensor off															
Ant.13	QPSK	Front Side	8	132322	1745.00	1	Mid	Off	-0.15	0.391	23.14	24.00	1.219	0.477	/
			8	132322	1745.00	50	Low	Off	0.04	0.309	21.96	23.00	1.271	0.393	/
		Back Side	11	132322	1745.00	1	Mid	Off	-0.18	0.301	23.14	24.00	1.219	0.367	/
			11	132322	1745.00	50	Low	Off	-0.18	0.237	21.96	23.00	1.271	0.301	/
		Top Edge	13	132322	1745.00	1	Mid	Off	0.13	0.349	23.14	24.00	1.219	0.425	/
			13	132322	1745.00	50	Low	Off	-0.02	0.276	21.96	23.00	1.271	0.351	/
Ant.31	QPSK	Front Side	8	132322	1745.00	1	Mid	Off	0.18	0.412	23.03	24.50	1.403	0.578	/
			8	132322	1745.00	50	Mid	Off	0.11	0.345	21.97	23.50	1.422	0.491	/
		Back Side	11	132322	1745.00	1	Mid	Off	-0.07	0.431	23.03	24.50	1.403	**0.605**	46
			11	132322	1745.00	50	Mid	Off	-0.04	0.349	21.97	23.50	1.422	0.496	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.13 LTE Band 38 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.13	QPSK	Left Cheek	0	38150	2610	1	Mid	DSI2	0.03	0.235	19.74	20.50	1.191	0.280	/
			0	38150	2610	50	Mid	DSI2	-0.15	0.231	19.48	20.50	1.265	0.292	/
		Left Tilt	0	38150	2610	1	Mid	DSI2	-0.14	0.233	19.74	20.50	1.191	0.278	/
			0	38150	2610	50	Mid	DSI2	0.07	0.231	19.48	20.50	1.265	0.292	/
		Right Cheek	0	38150	2610	1	Mid	DSI2	0.12	0.595	19.74	20.50	1.191	**0.709**	47
			0	38150	2610	50	Mid	DSI2	-0.01	0.544	19.48	20.50	1.265	0.688	/
		Right Tilt	0	38150	2610	1	Mid	DSI2	-0.02	0.556	19.74	20.50	1.191	0.662	/
			0	38150	2610	50	Mid	DSI2	-0.09	0.538	19.48	20.50	1.265	0.680	/
Ant.13	QPSK	Left Cheek	0	38150	2610	1	Mid	DSI3	-0.09	0.187	19.25	19.50	1.059	0.198	/
			0	38150	2610	50	Mid	DSI3	0.17	0.184	18.99	19.50	1.125	0.207	/
		Left Tilt	0	38150	2610	1	Mid	DSI3	0.10	0.185	19.25	19.50	1.059	0.196	/
			0	38150	2610	50	Mid	DSI3	0.10	0.183	18.99	19.50	1.125	0.206	/
		Right Cheek	0	38150	2610	1	Mid	DSI3	0.19	0.533	19.25	19.50	1.059	0.564	/
			0	38150	2610	50	Mid	DSI3	0.12	0.532	18.99	19.50	1.125	0.598	/
		Right Tilt	0	38150	2610	1	Mid	DSI3	-0.05	0.526	19.25	19.50	1.059	0.557	/
			0	38150	2610	50	Mid	DSI3	0.11	0.523	18.99	19.50	1.125	0.588	/
Ant.31	QPSK	Left Cheek	0	38150	2610	1	Mid	DSI2&3	0.11	0.140	23.32	24.20	1.225	0.171	/
			0	38150	2610	50	Mid	DSI2&3	0.02	0.111	22.04	23.20	1.306	0.145	/
		Left Tilt	0	38150	2610	1	Mid	DSI2&3	0.19	0.099	23.32	24.20	1.225	0.121	/
			0	38150	2610	50	Mid	DSI2&3	0.13	0.078	22.04	23.20	1.306	0.102	/
		Right Cheek	0	38150	2610	1	Mid	DSI2&3	-0.11	0.264	23.32	24.20	1.225	0.323	/
			0	38150	2610	50	Mid	DSI2&3	0.03	0.213	22.04	23.20	1.306	0.278	/
		Right Tilt	0	38150	2610	1	Mid	DSI2&3	0.06	0.147	23.32	24.20	1.225	0.180	/
			0	38150	2610	50	Mid	DSI2&3	0.16	0.116	22.04	23.20	1.306	0.152	/
Body-worn Accessory															
Ant.13	QPSK	Front Side	15	38150	2610	1	Mid	DSI7	0.11	0.177	23.31	24.00	1.172	0.207	/
			15	38150	2610	50	Mid	DSI7	-0.07	0.147	22.13	23.00	1.222	0.180	/
		Back Side	15	38150	2610	1	Mid	DSI7	0.11	0.276	23.31	24.00	1.172	**0.324**	48
			15	38150	2610	50	Mid	DSI7	0.11	0.233	22.13	23.00	1.222	0.285	/
Ant.13	QPSK	Front Side	15	38150	2610	1	Mid	DSI6	-0.13	0.100	20.79	21.50	1.178	0.117	/
			15	38150	2610	50	Mid	DSI6	0.10	0.104	20.48	21.50	1.265	0.132	/
		Back Side	15	38150	2610	1	Mid	DSI6	0.11	0.157	20.79	21.50	1.178	0.185	/
			15	38150	2610	50	Mid	DSI6	0.15	0.165	20.48	21.50	1.265	0.209	/
Ant.31	QPSK	Front Side	15	38150	2610	1	Mid	DSI7&6	-0.17	0.177	23.32	24.20	1.225	0.217	/
			15	38150	2610	50	Mid	DSI7&6	-0.13	0.142	22.04	23.20	1.306	0.185	/
		Back Side	15	38150	2610	1	Mid	DSI7&6	0.11	0.239	23.32	24.20	1.225	0.293	/
			15	38150	2610	50	Mid	DSI7&6	0.16	0.200	22.04	23.20	1.306	0.261	/
Hotspot															
Ant.13	QPSK	Front Side	10	38150	2610	1	Mid	DSI6	-0.09	0.178	20.79	21.50	1.178	0.210	/
			10	38150	2610	50	Mid	DSI6	-0.09	0.188	20.48	21.50	1.265	0.238	/

		Back Side	10	38150	2610	1	Mid	DSI6	-0.13	0.312	20.79	21.50	1.178	0.367	/
			10	38150	2610	50	Mid	DSI6	0.07	0.326	20.48	21.50	1.265	0.412	
		Left Edge	10	38150	2610	1	Mid	DSI6	-0.10	0.015	20.79	21.50	1.178	0.018	/
			10	38150	2610	50	Mid	DSI6	-0.02	0.016	20.48	21.50	1.265	0.020	/
		Right Edge	10	38150	2610	1	Mid	DSI6	-0.13	0.303	20.79	21.50	1.178	0.357	/
			10	38150	2610	50	Mid	DSI6	-0.02	0.320	20.48	21.50	1.265	0.405	/
		Top Edge	10	38150	2610	1	Mid	DSI6	0.06	0.259	20.79	21.50	1.178	0.305	/
			10	38150	2610	50	Mid	DSI6	0.17	0.266	20.48	21.50	1.265	0.336	/
Ant.31	QPSK	Front Side	10	38150	2610	1	Mid	DSI6	-0.08	0.340	23.32	24.20	1.225	0.416	/
			10	38150	2610	50	Mid	DSI6	0.16	0.269	22.04	23.20	1.306	0.351	/
		Back Side	10	38150	2610	1	Mid	DSI6	-0.10	0.498	23.32	24.20	1.225	**0.610**	49
			10	38150	2610	50	Mid	DSI6	-0.15	0.435	22.04	23.20	1.306	0.568	/
		Left Edge	10	38150	2610	1	Mid	DSI6	-0.01	0.247	23.32	24.20	1.225	0.302	/
			10	38150	2610	50	Mid	DSI6	0.15	0.195	22.04	23.20	1.306	0.255	/
		Right Edge	10	38150	2610	1	Mid	DSI6	0.17	0.050	23.32	24.20	1.225	0.061	/
			10	38150	2610	50	Mid	DSI6	-0.04	0.040	22.04	23.20	1.306	0.052	/
		Bottom Edge	10	38150	2610	1	Mid	DSI6	-0.08	0.289	23.32	24.20	1.225	0.354	/
			10	38150	2610	50	Mid	DSI6	0.17	0.226	22.04	23.20	1.306	0.295	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
P-Sensor off															
Ant.13	QPSK	Front Side	8	38150	2610	1	Mid	Off	0.05	0.224	23.31	24.00	1.172	0.263	/
			8	38150	2610	50	Mid	Off	-0.09	0.177	22.13	23.00	1.222	0.216	/
		Back Side	11	38150	2610	1	Mid	Off	-0.17	0.225	23.31	24.00	1.172	**0.264**	50
			11	38150	2610	50	Mid	Off	-0.19	0.189	22.13	23.00	1.222	0.231	/
		Top Edge	13	38150	2610	1	Mid	Off	-0.11	0.122	23.31	24.00	1.172	0.143	/
			13	38150	2610	50	Mid	Off	0.06	0.098	22.13	23.00	1.222	0.120	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.14 LTE Band 38 (20MHz Bandwidth) Worse case for CA Test

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.13	QPSK	Right Cheek	0	37952 +38150	2590.2 +2610	1+1	High +Low	DSI2	0.08	0.450	18.88	20.50	1.452	0.653	/
Body-worn Accessory															
Ant.13	QPSK	Back Side	15	37952 +38150	2590.2 +2610	1+1	High +Low	DSI7	-0.13	0.224	22.66	24.00	1.361	0.305	/
Hotspot															
Ant.31	QPSK	Back Side	10	37952 +38150	2590.2 +2610	1+1	High +Low	DSI6	-0.01	0.385	22.56	24.20	1.459	0.562	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.15 LTE Band 41 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.13	QPSK	Left Cheek	0	40620	2593	1	Mid	DSI2	0.15	0.221	19.75	20.50	1.189	0.263	/
			0	40620	2593	50	Mid	DSI2	0.10	0.218	19.54	20.50	1.247	0.272	/
		Left Tilt	0	40620	2593	1	Mid	DSI2	0.12	0.247	19.75	20.50	1.189	0.294	/
			0	40620	2593	50	Mid	DSI2	-0.02	0.243	19.54	20.50	1.247	0.303	/
		Right Cheek	0	40620	2593	1	Mid	DSI2	0.00	0.541	19.75	20.50	1.189	0.643	/
			0	40620	2593	50	Mid	DSI2	0.01	0.527	19.54	20.50	1.247	0.657	/
		Right Tilt	0	40620	2593	1	Mid	DSI2	0.17	0.543	19.75	20.50	1.189	0.645	/
			0	40620	2593	50	Mid	DSI2	0.00	0.537	19.54	20.50	1.247	**0.670**	51
Ant.13	QPSK	Left Cheek	0	40620	2593	1	Mid	DSI3	-0.02	0.176	18.79	19.50	1.178	0.207	/
			0	40620	2593	50	Mid	DSI3	-0.14	0.173	18.57	19.50	1.239	0.214	/
		Left Tilt	0	40620	2593	1	Mid	DSI3	0.13	0.196	18.79	19.50	1.178	0.231	/
			0	40620	2593	50	Mid	DSI3	0.03	0.193	18.57	19.50	1.239	0.239	/
		Right Cheek	0	40620	2593	1	Mid	DSI3	0.15	0.504	18.79	19.50	1.178	0.594	/
			0	40620	2593	50	Mid	DSI3	0.05	0.510	18.57	19.50	1.239	0.632	/
		Right Tilt	0	40620	2593	1	Mid	DSI3	-0.08	0.507	18.79	19.50	1.178	0.597	/
			0	40620	2593	50	Mid	DSI3	0.05	0.523	18.57	19.50	1.239	0.648	/
Ant.31	QPSK	Left Cheek	0	41490	2680	1	Mid	DSI2&3	-0.11	0.135	23.54	24.20	1.164	0.157	/
			0	41490	2680	50	Mid	DSI2&3	0.07	0.104	22.20	23.20	1.259	0.131	/
		Left Tilt	0	41490	2680	1	Mid	DSI2&3	0.13	0.101	23.54	24.20	1.164	0.118	/
			0	41490	2680	50	Mid	DSI2&3	-0.14	0.080	22.20	23.20	1.259	0.101	/
		Right Cheek	0	41490	2680	1	Mid	DSI2&3	0.15	0.273	23.54	24.20	1.164	0.318	/
			0	41490	2680	50	Mid	DSI2&3	0.12	0.216	22.20	23.20	1.259	0.272	/
		Right Tilt	0	41490	2680	1	Mid	DSI2&3	0.07	0.140	23.54	24.20	1.164	0.163	/
			0	41490	2680	50	Mid	DSI2&3	-0.18	0.108	22.20	23.20	1.259	0.136	/
Body-worn Accessory															
Ant.13	QPSK	Front Side	15	40620	2593	1	Mid	DSI7	0.13	0.151	23.33	24.00	1.167	0.176	/
			15	40620	2593	50	Mid	DSI7	0.09	0.127	22.09	23.00	1.233	0.157	/
		Back Side	15	40620	2593	1	Mid	DSI7	-0.09	0.201	23.33	24.00	1.167	0.235	/
			15	40620	2593	50	Mid	DSI7	0.03	0.230	22.09	23.00	1.233	0.284	/
Ant.13	QPSK	Front Side	15	40620	2593	1	Mid	DSI6	0.10	0.085	20.83	21.50	1.167	0.099	/
			15	40620	2593	50	Mid	DSI6	-0.08	0.090	20.57	21.50	1.239	0.111	/
		Back Side	15	40620	2593	1	Mid	DSI6	-0.17	0.157	20.83	21.50	1.167	0.183	/
			15	40620	2593	50	Mid	DSI6	0.16	0.163	20.57	21.50	1.239	0.202	/
Ant.31	QPSK	Front Side	15	41490	2680	1	Mid	DSI7&6	0.00	0.178	23.54	24.20	1.164	0.207	/
			15	41490	2680	50	Mid	DSI7&6	0.19	0.139	22.20	23.20	1.259	0.175	/
		Back Side	15	41490	2680	1	Mid	DSI7&6	-0.04	0.281	23.54	24.20	1.164	**0.327**	52
			15	41490	2680	50	Mid	DSI7&6	-0.12	0.234	22.20	23.20	1.259	0.295	/
Hotspot															
Ant.13	QPSK	Front Side	10	40620	2593	1	Mid	DSI6	0.09	0.154	20.83	21.50	1.167	0.180	/
			10	40620	2593	50	Mid	DSI6	0.19	0.163	20.57	21.50	1.239	0.202	/

		Back Side	10	40620	2593	1	Mid	DSI6	0.04	0.304	20.83	21.50	1.167	0.355	/
			10	40620	2593	50	Mid	DSI6	0.09	0.313	20.57	21.50	1.239	0.388	/
		Left Edge	10	40620	2593	1	Mid	DSI6	0.05	0.017	20.83	21.50	1.167	0.020	/
			10	40620	2593	50	Mid	DSI6	0.16	0.019	20.57	21.50	1.239	0.024	/
		Right Edge	10	40620	2593	1	Mid	DSI6	0.00	0.283	20.83	21.50	1.167	0.330	/
			10	40620	2593	50	Mid	DSI6	-0.08	0.302	20.57	21.50	1.239	0.374	/
		Top Edge	10	40620	2593	1	Mid	DSI6	0.12	0.265	20.83	21.50	1.167	0.309	/
			10	40620	2593	50	Mid	DSI6	0.17	0.271	20.57	21.50	1.239	0.336	/
Ant.31	QPSK	Front Side	10	41490	2680	1	Mid	DSI6	0.12	0.337	23.54	24.20	1.164	0.392	/
			10	41490	2680	50	Mid	DSI6	0.04	0.267	22.20	23.20	1.259	0.336	/
		Back Side	10	41490	2680	1	Mid	DSI6	0.16	0.413	23.54	24.20	1.164	**0.481**	53
			10	41490	2680	50	Mid	DSI6	0.03	0.337	22.20	23.20	1.259	0.424	/
		Left Edge	10	41490	2680	1	Mid	DSI6	-0.13	0.240	23.54	24.20	1.164	0.279	/
			10	41490	2680	50	Mid	DSI6	0.04	0.144	22.20	23.20	1.259	0.181	/
		Right Edge	10	41490	2680	1	Mid	DSI6	-0.19	0.050	23.54	24.20	1.164	0.058	/
			10	41490	2680	50	Mid	DSI6	0.19	0.041	22.20	23.20	1.259	0.052	/
		Bottom Edge	10	41490	2680	1	Mid	DSI6	0.14	0.254	23.54	24.20	1.164	0.296	/
			10	41490	2680	50	Mid	DSI6	-0.09	0.201	22.20	23.20	1.259	0.253	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
P-Sensor off															
Ant.13	QPSK	Front Side	8	40620	2593	1	Mid	Off	0.19	0.210	23.33	24.00	1.167	0.245	/
			8	40620	2593	50	Mid	Off	-0.18	0.170	22.09	23.00	1.233	0.210	/
		Back Side	11	40620	2593	1	Mid	Off	0.03	0.222	23.33	24.00	1.167	**0.259**	54
			11	40620	2593	50	Mid	Off	-0.02	0.167	22.09	23.00	1.233	0.206	/
		Top Edge	13	40620	2593	1	Mid	Off	0.03	0.131	23.33	24.00	1.167	0.153	/
			13	40620	2593	50	Mid	Off	0.14	0.104	22.09	23.00	1.233	0.128	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.16 LTE Band 41 (20MHz Bandwidth) Worse case for CA Test

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Reduction	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.13	QPSK	Right Tilt	0	40620 +40818	2593 +2612.8	1+1	High +Low	DSI2	0.17	0.446	19.09	20.50	1.384	0.617	/
Body-worn Accessory															
Ant.31	QPSK	Back Side	15	41490 +41292	2680 +2660.2	1+1	Low +High	DSI7&6	0.11	0.203	22.66	24.20	1.426	0.289	/
Hotspot															
Ant.31	QPSK	Back Side	10	41490 +41292	2680 +2660.2	1+1	Low +High	DSI6	0.03	0.318	22.66	24.20	1.426	0.453	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.17 WIFI 2.4GHz

Mode	Power Reduction	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	Duty cycle (%)	Duty Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
802.11b	Level3	Left Cheek	0	6	2437	-0.02	0.482	16.52	17.00	1.117	99.32	1.007	**0.542**	55
	Level3	Left Tilt	0	6	2437	0.10	0.311	16.52	17.00	1.117	99.32	1.007	0.350	/
	Level3	Right Cheek	0	6	2437	-0.12	0.195	16.52	17.00	1.117	99.32	1.007	0.219	/
	Level3	Right Tilt	0	6	2437	-0.15	0.256	16.52	17.00	1.117	99.32	1.007	0.288	/
Body-worn Accessory														
802.11b	Level1	Front Side	15	6	2437	0.02	0.107	19.52	20.00	1.117	99.32	1.007	0.120	/
	Level1	Back Side	15	6	2437	0.18	0.171	19.52	20.00	1.117	99.32	1.007	**0.192**	56
802.11b	Level2	Front Side	15	6	2437	-0.13	0.095	18.84	19.50	1.164	99.32	1.007	0.111	/
	Level2	Back Side	15	6	2437	-0.01	0.150	18.84	19.50	1.164	99.32	1.007	0.176	/
Hotspot														
802.11b	Level2	Front Side	10	6	2437	-0.07	0.190	18.84	19.50	1.164	99.32	1.007	0.222	/
	Level2	Back Side	10	6	2437	0.01	0.340	18.84	19.50	1.164	99.32	1.007	**0.399**	57
	Level2	Left Edge	10	6	2437	0.10	0.219	18.84	19.50	1.164	99.32	1.007	0.256	/
	Level2	Right Edge	10	6	2437	-0.01	0.027	18.84	19.50	1.164	99.32	1.007	0.032	/
	Level2	Top Edge	10	6	2437	0.05	0.326	18.84	19.50	1.164	99.32	1.007	0.382	/
	Level2	Bottom Edge	10	6	2437	-0.10	0.012	18.84	19.50	1.164	99.32	1.007	0.014	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

11.18 WIFI 5GHz

Fre. Band	Mode	Power Reduction	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	Duty cycle (%)	Duty Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
5.3G	802.11 a	Level3	Left Cheek	0	60	5300	0.06	0.592	14.47	14.50	1.007	96.80	1.033	**0.616**	58
		Level3	Left Tilt	0	60	5300	-0.14	0.214	14.47	14.50	1.007	96.80	1.033	0.223	/
		Level3	Right Cheek	0	60	5300	0.08	0.102	14.47	14.50	1.007	96.80	1.033	0.106	/
		Level3	Right Tilt	0	60	5300	-0.10	0.098	14.47	14.50	1.007	96.80	1.033	0.101	/
5.6G	802.11 a	Level3	Left Cheek	0	116	5580	-0.09	0.601	14.28	14.50	1.052	96.80	1.033	**0.653**	59
		Level3	Left Tilt	0	116	5580	-0.05	0.194	14.28	14.50	1.052	96.80	1.033	0.211	/
		Level3	Right Cheek	0	116	5580	0.14	0.081	14.28	14.50	1.052	96.80	1.033	0.088	/
		Level3	Right Tilt	0	116	5580	-0.10	0.079	14.28	14.50	1.052	96.80	1.033	0.086	/
5.8G	802.11 a	Level3	Left Cheek	0	149	5745	0.08	0.591	15.25	15.50	1.059	96.80	1.033	**0.647**	60
		Level3	Left Tilt	0	149	5745	0.19	0.176	15.25	15.50	1.059	96.80	1.033	0.193	/
		Level3	Right Cheek	0	149	5745	-0.18	0.079	15.25	15.50	1.059	96.80	1.033	0.086	/
		Level3	Right Tilt	0	149	5745	-0.07	0.077	15.25	15.50	1.059	96.80	1.033	0.084	/
Body-worn Accessory															
5.3G	802.11 a	Level1	Front Side	15	60	5300	-0.16	0.189	18.42	18.50	1.019	96.80	1.033	0.199	/
		Level1	Back Side	15	60	5300	0.16	0.550	18.42	18.50	1.019	96.80	1.033	**0.579**	61
5.3G	802.11 a	Level2	Front Side	15	60	5300	-0.08	0.106	14.47	14.50	1.007	96.80	1.033	0.110	/
		Level2	Back Side	15	60	5300	0.04	0.318	14.47	14.50	1.007	96.80	1.033	0.331	/
5.6G	802.11 a	Level1	Front Side	15	116	5580	0.17	0.219	19.44	19.50	1.014	96.80	1.033	0.229	/
		Level1	Back Side	15	116	5580	0.02	0.659	19.44	19.50	1.014	96.80	1.033	**0.690**	62
5.6G	802.11 a	Level2	Front Side	15	116	5580	-0.16	0.155	17.92	18.00	1.019	96.80	1.033	0.163	/
		Level2	Back Side	15	116	5580	0.07	0.463	17.92	18.00	1.019	96.80	1.033	0.487	/
5.8G	802.11 a	Level1	Front Side	15	149	5745	0.19	0.198	19.33	19.50	1.040	96.80	1.033	0.212	/
		Level1	Back Side	15	149	5745	0.02	0.405	19.33	19.50	1.040	96.80	1.033	**0.435**	63
5.8G	802.11 a	Level2	Front Side	15	149	5745	-0.10	0.111	16.94	17.00	1.014	96.80	1.033	0.116	/
		Level2	Back Side	15	149	5745	0.08	0.224	16.94	17.00	1.014	96.80	1.033	0.235	/
Hotspot															
5.2G	802.11 a	Level2	Front Side	10	44	5220	-0.17	0.091	12.25	13.00	1.189	96.80	1.033	0.112	/
		Level2	Back Side	10	44	5220	0.05	0.387	12.25	13.00	1.189	96.80	1.033	0.475	/
		Level2	Left Edge	10	44	5220	0.06	0.402	12.25	13.00	1.189	96.80	1.033	**0.494**	64
		Level2	Right Edge	10	44	5220	-0.04	0.043	12.25	13.00	1.189	96.80	1.033	0.053	/
		Level2	Top Edge	10	44	5220	0.06	0.058	12.25	13.00	1.189	96.80	1.033	0.071	/
		Level2	Bottom Edge	10	44	5220	-0.11	0.019	12.25	13.00	1.189	96.80	1.033	0.023	/
5.8G	802.11 a	Level2	Front Side	10	149	5745	0.04	0.168	16.94	17.00	1.014	96.80	1.033	0.176	/
		Level2	Back Side	10	149	5745	-0.15	0.357	16.94	17.00	1.014	96.80	1.033	0.374	/
		Level2	Left Edge	10	149	5745	-0.15	0.707	16.94	17.00	1.014	96.80	1.033	**0.741**	65
		Level2	Right Edge	10	149	5745	-0.08	0.017	16.94	17.00	1.014	96.80	1.033	0.018	/
		Level2	Top Edge	10	149	5745	-0.180	0.130	16.94	17.00	1.014	96.80	1.033	0.136	/
		Level2	Bottom Edge	10	149	5745	-0.08	0.028	16.94	17.00	1.014	96.80	1.033	0.029	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Fre. Band	Mode	Power Reduction	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	Duty cycle (%)	Duty Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific															
5.3G	802.11 a	Level1	Front Side	0	60	5300	0.12	0.611	18.42	18.50	1.019	96.80	1.033	0.643	/
		Level1	Back Side	0	60	5300	0.04	1.460	18.42	18.50	1.019	96.80	1.033	1.536	/
		Level1	Left Edge	0	60	5300	0.12	2.830	18.42	18.50	1.019	96.80	1.033	**2.978**	66
		Level1		0	52	5260	-0.08	2.040	16.75	17.00	1.059	96.80	1.033	2.232	/
		Level1		0	64	5320	-0.04	0.947	15.03	15.50	1.114	96.80	1.033	1.090	/
		Level1	Right Edge	0	60	5300	0.15	0.074	18.42	18.50	1.019	96.80	1.033	0.078	/
		Level1	Top Edge	0	60	5300	-0.09	0.275	18.42	18.50	1.019	96.80	1.033	0.289	/
		Level1	Bottom Edge	0	60	5300	0.05	0.039	18.42	18.50	1.019	96.80	1.033	0.041	/
5.3G	802.11 a	Level2	Front Side	0	60	5300	-0.12	0.245	14.47	14.50	1.007	96.80	1.033	0.255	/
		Level2	Back Side	0	60	5300	0.09	0.594	14.47	14.50	1.007	96.80	1.033	0.618	/
		Level2	Left Edge	0	60	5300	-0.10	1.160	14.47	14.50	1.007	96.80	1.033	1.207	/
		Level2	Right Edge	0	60	5300	0.07	0.032	14.47	14.50	1.007	96.80	1.033	0.033	/
		Level2	Top Edge	0	60	5300	0.17	0.112	14.47	14.50	1.007	96.80	1.033	0.117	/
		Level2	Bottom Edge	0	60	5300	0.15	0.018	14.47	14.50	1.007	96.80	1.033	0.019	/
5.6G	802.11 a	Level1	Front Side	0	116	5580	0.09	0.779	19.44	19.50	1.014	96.80	1.033	0.816	/
		Level1	Back Side	0	116	5580	0.18	1.110	19.44	19.50	1.014	96.80	1.033	1.163	/
		Level1	Left Edge	0	116	5580	-0.08	2.800	19.44	19.50	1.014	96.80	1.033	**2.933**	67
		Level1		0	100	5500	-0.07	1.040	15.34	15.50	1.038	96.80	1.033	1.115	/
		Level1		0	140	5700	-0.15	0.749	15.47	15.50	1.007	96.80	1.033	0.779	/
		Level1	Right Edge	0	116	5580	0.14	0.029	19.44	19.50	1.014	96.80	1.033	0.030	/
		Level1	Top Edge	0	116	5580	-0.08	0.293	19.44	19.50	1.014	96.80	1.033	0.307	/
		Level1	Bottom Edge	0	116	5580	0.04	0.035	19.44	19.50	1.014	96.80	1.033	0.037	/
5.6G	802.11 a	Level2	Front Side	0	116	5580	-0.16	0.552	17.92	18.00	1.019	96.80	1.033	0.581	/
		Level2	Back Side	0	116	5580	0.06	0.764	17.92	18.00	1.019	96.80	1.033	0.804	/
		Level2	Left Edge	0	116	5580	-0.08	1.860	17.92	18.00	1.019	96.80	1.033	1.957	/
		Level2	Right Edge	0	116	5580	-0.13	0.021	17.92	18.00	1.019	96.80	1.033	0.022	/
		Level2	Top Edge	0	116	5580	0.09	0.206	17.92	18.00	1.019	96.80	1.033	0.217	/
		Level2	Bottom Edge	0	116	5580	0.02	0.025	17.92	18.00	1.019	96.80	1.033	0.026	/
5.8G	802.11 a	Level1	Left Edge	0	149	5745	0.14	2.120	19.33	19.50	1.040	96.80	1.033	**2.278**	68
		Level1		0	157	5785	0.11	1.910	19.12	19.50	1.091	96.80	1.033	2.154	/
		Level1		0	165	5825	-0.12	1.900	18.98	19.50	1.127	96.80	1.033	2.212	/
5.8G	802.11 a	Level2	Left Edge	0	149	5745	0.17	1.210	16.84	17.00	1.038	96.80	1.033	1.297	/
Specific-Repated SAR															
5.3G	802.11 a	Level1	Left Edge	0	60	5300	-0.04	2.670	18.42	18.50	1.019	96.80	1.033	2.810	/
5.6G	802.11 a	Level1	Left Edge	0	116	5580	0.15	2.710	19.44	19.50	1.014	96.80	1.033	2.839	/
5.8G	802.11 a	Level1	Left Edge	0	149	5745	0.07	2.120	19.33	19.50	1.040	96.80	1.033	2.278	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.19 Bluetooth

Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	Duty cycle (%)	Duty Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
DH5	Left Cheek	0	39	2441	-0.16	0.068	9.57	11.50	1.560	76.88	1.301	**0.138**	69
	Left Tilt	0	39	2441	0.10	0.057	9.57	11.50	1.560	76.88	1.301	0.116	/
	Right Cheek	0	39	2441	-0.03	0.034	9.57	11.50	1.560	76.88	1.301	0.069	/
	Right Tilt	0	39	2441	0.09	0.047	9.57	11.50	1.560	76.88	1.301	0.095	/
Body-worn Accessory													
DH5	Front Side	15	39	2441	-0.04	0.008	9.57	11.50	1.560	76.88	1.301	0.016	/
	Back Side	15	39	2441	-0.01	0.010	9.57	11.50	1.560	76.88	1.301	**0.021**	70
Hotspot													
DH5	Front Side	10	39	2441	-0.17	0.013	9.57	11.50	1.560	76.88	1.301	0.026	/
	Back Side	10	39	2441	0.02	0.023	9.57	11.50	1.560	76.88	1.301	**0.047**	71
	Left Edge	10	39	2441	-0.11	0.015	9.57	11.50	1.560	76.88	1.301	0.030	/
	Right Edge	10	39	2441	0.09	0.002	9.57	11.50	1.560	76.88	1.301	0.004	/
	Top Edge	10	39	2441	-0.01	0.022	9.57	11.50	1.560	76.88	1.301	0.045	/
	Bottom Edge	10	39	2441	0.09	0.001	9.57	11.50	1.560	76.88	1.301	0.002	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

12 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10, the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is >= 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20, or when the original or repeated measurement is >= 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20, and the original, first or second repeated measurement is >= 1.5 W/kg, perform a third repeated measurement.

Note: For 1g SAR, the highest measured 1g SAR is 0.768 < 0.80 W/kg, repeated measurement is not required.

13 SIMULTANEOUS TRANSMISSION

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR).

13.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Specific
1	WLAN 5GHz + BT	Yes	Yes	Yes	Yes
2	WWAN + WLAN 2.4GHz	Yes	Yes	Yes	Yes
3	WWAN + BT	Yes	Yes	Yes	Yes
4	WWAN + WLAN 5GHz	Yes	Yes	Yes	Yes
5	WWAN + WLAN 5GHz + BT	Yes	Yes	Yes	Yes

Note:

1. 2G&3G&4G share the same antenna and can’t transmit simultaneously.
2. WWAN antennas can switch automatically, but can't transmit simultaneously.
3. The maximum SAR summation is calculated based on the same configuration and test position.
4. The 2.4G WLAN can’t transmit simultaneously with Bluetooth or 5G WLAN.
5. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
6. This device 2.4GHz WLAN/5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz WLAN/5.5GHz WLAN supports WiFi Direct (GC only).
7. According KDB 648474 D04, 10-g extremity SAR is required only for the hotspot mode 1-g reported SAR > 1.2 W/kg，for this DUT, only GSM1900, WCDMAB2/4，LTE band2/4/66，WLAN 5.3G，WLAN 5.6G and WLAN 5.8G was tested 10-g extremity(0mm)，so only WWAN simultaneous transmission with 5G WLAN was evaluation in this report.

13.2 Sum SAR of Simultaneous Transmission

13.2.1 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna Up and WLAN 2.4G/5G

Band	Power Reduction	Position	Stand alone SAR				SUM SAR	
			1	2	3	4		
			WWAN	2.4GWIFI	5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3+4)
GSM850	DSI3	Left Cheek	0.602	0.542	0.653	0.138	1.144	**1.393**
	DSI3	Left Tilt	0.545	0.350	0.223	0.116	0.895	0.883
	DSI3	Right Cheek	0.773	0.219	0.106	0.069	0.992	0.948
	DSI3	Right Tilt	0.595	0.288	0.101	0.095	0.883	0.792
GSM 1900	DSI3	Left Cheek	0.387	0.542	0.653	0.138	0.929	1.179
	DSI3	Left Tilt	0.446	0.350	0.223	0.116	0.796	0.784
	DSI3	Right Cheek	0.595	0.219	0.106	0.069	0.814	0.769
	DSI3	Right Tilt	0.666	0.288	0.101	0.095	0.954	0.863
WCDMA B2	DSI3	Left Cheek	0.410	0.542	0.653	0.138	0.952	1.201
	DSI3	Left Tilt	0.465	0.350	0.223	0.116	0.814	0.803
	DSI3	Right Cheek	0.676	0.219	0.106	0.069	0.896	0.851
	DSI3	Right Tilt	0.736	0.288	0.101	0.095	1.024	0.933
WCDMA B4	DSI3	Left Cheek	0.360	0.542	0.653	0.138	0.902	1.151
	DSI3	Left Tilt	0.420	0.350	0.223	0.116	0.769	0.758
	DSI3	Right Cheek	0.628	0.219	0.106	0.069	0.847	0.803
	DSI3	Right Tilt	0.661	0.288	0.101	0.095	0.949	0.858
WCDMA B5	DSI3	Left Cheek	0.475	0.542	0.653	0.138	1.017	1.266
	DSI3	Left Tilt	0.401	0.350	0.223	0.116	0.751	0.740
	DSI3	Right Cheek	0.552	0.219	0.106	0.069	0.771	0.727
	DSI3	Right Tilt	0.532	0.288	0.101	0.095	0.820	0.729
LTE B2	DSI3	Left Cheek	0.354	0.542	0.653	0.138	0.896	1.145
	DSI3	Left Tilt	0.410	0.350	0.223	0.116	0.759	0.748
	DSI3	Right Cheek	0.470	0.219	0.106	0.069	0.690	0.645
	DSI3	Right Tilt	0.673	0.288	0.101	0.095	0.961	0.869
LTE B4	DSI3	Left Cheek	0.270	0.542	0.653	0.138	0.812	1.062
	DSI3	Left Tilt	0.312	0.350	0.223	0.116	0.662	0.650
	DSI3	Right Cheek	0.378	0.219	0.106	0.069	0.598	0.553
	DSI3	Right Tilt	0.489	0.288	0.101	0.095	0.777	0.686
LTE B5	DSI3	Left Cheek	0.551	0.542	0.653	0.138	1.093	1.343
	DSI3	Left Tilt	0.475	0.350	0.223	0.116	0.825	0.814
	DSI3	Right Cheek	0.617	0.219	0.106	0.069	0.837	0.792
	DSI3	Right Tilt	0.600	0.288	0.101	0.095	0.888	0.797
LTE B7	DSI3	Left Cheek	0.150	0.542	0.653	0.138	0.692	0.941
	DSI3	Left Tilt	0.194	0.350	0.223	0.116	0.544	0.533
	DSI3	Right Cheek	0.401	0.219	0.106	0.069	0.621	0.576
	DSI3	Right Tilt	0.503	0.288	0.101	0.095	0.791	0.700
LTE B12	DSI3	Left Cheek	0.350	0.542	0.653	0.138	0.892	1.142

	DSI3	Left Tilt	0.314	0.350	0.223	0.116	0.664	0.653
	DSI3	Right Cheek	0.481	0.219	0.106	0.069	0.700	0.655
	DSI3	Right Tilt	0.430	0.288	0.101	0.095	0.718	0.627
LTE B66	DSI3	Left Cheek	0.291	0.542	0.653	0.138	0.833	1.082
	DSI3	Left Tilt	0.339	0.350	0.223	0.116	0.688	0.677
	DSI3	Right Cheek	0.385	0.219	0.106	0.069	0.604	0.560
	DSI3	Right Tilt	0.568	0.288	0.101	0.095	0.856	0.765
LTE B38	DSI3	Left Cheek	0.207	0.542	0.653	0.138	0.749	0.998
	DSI3	Left Tilt	0.206	0.350	0.223	0.116	0.556	0.545
	DSI3	Right Cheek	0.598	0.219	0.106	0.069	0.817	0.773
	DSI3	Right Tilt	0.588	0.288	0.101	0.095	0.876	0.785
LTE B41	DSI3	Left Cheek	0.214	0.542	0.653	0.138	0.756	1.006
	DSI3	Left Tilt	0.239	0.350	0.223	0.116	0.589	0.578
	DSI3	Right Cheek	0.632	0.219	0.106	0.069	0.851	0.806
	DSI3	Right Tilt	0.648	0.288	0.101	0.095	0.936	0.845

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.393 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.2 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna Down and WLAN 2.4G/5G

Band	Power Reduction	Position	Stand alone SAR				SUM SAR	
			1	**2**	**3**	**4**		
			WWAN	2.4GWIFI	5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3+4)
GSM850	DSI3	Left Cheek	0.306	0.542	0.653	0.138	0.848	**1.097**
	DSI3	Left Tilt	0.195	0.350	0.223	0.116	0.545	0.534
	DSI3	Right Cheek	0.278	0.219	0.106	0.069	0.497	0.452
	DSI3	Right Tilt	0.146	0.288	0.101	0.095	0.434	0.343
GSM 1900	DSI3	Left Cheek	0.135	0.542	0.653	0.138	0.677	0.926
	DSI3	Left Tilt	0.092	0.350	0.223	0.116	0.442	0.431
	DSI3	Right Cheek	0.104	0.219	0.106	0.069	0.323	0.279
	DSI3	Right Tilt	0.091	0.288	0.101	0.095	0.379	0.288
WCDMA B2	DSI3	Left Cheek	0.208	0.542	0.653	0.138	0.750	0.999
	DSI3	Left Tilt	0.151	0.350	0.223	0.116	0.501	0.489
	DSI3	Right Cheek	0.155	0.219	0.106	0.069	0.374	0.330
	DSI3	Right Tilt	0.131	0.288	0.101	0.095	0.419	0.328
WCDMA B4	DSI3	Left Cheek	0.160	0.542	0.653	0.138	0.702	0.952
	DSI3	Left Tilt	0.108	0.350	0.223	0.116	0.458	0.446
	DSI3	Right Cheek	0.099	0.219	0.106	0.069	0.318	0.273
	DSI3	Right Tilt	0.128	0.288	0.101	0.095	0.416	0.325
WCDMA B5	DSI3	Left Cheek	0.204	0.542	0.653	0.138	0.746	0.995
	DSI3	Left Tilt	0.103	0.350	0.223	0.116	0.453	0.441
	DSI3	Right Cheek	0.165	0.219	0.106	0.069	0.384	0.340
	DSI3	Right Tilt	0.074	0.288	0.101	0.095	0.363	0.271
LTE B2	DSI3	Left Cheek	0.167	0.542	0.653	0.138	0.709	0.959
	DSI3	Left Tilt	0.137	0.350	0.223	0.116	0.487	0.476
	DSI3	Right Cheek	0.137	0.219	0.106	0.069	0.356	0.312
	DSI3	Right Tilt	0.126	0.288	0.101	0.095	0.414	0.323
LTE B4	DSI3	Left Cheek	0.161	0.542	0.653	0.138	0.703	0.952
	DSI3	Left Tilt	0.114	0.350	0.223	0.116	0.463	0.452
	DSI3	Right Cheek	0.096	0.219	0.106	0.069	0.315	0.270
	DSI3	Right Tilt	0.100	0.288	0.101	0.095	0.388	0.296
LTE B5	DSI3	Left Cheek	0.232	0.542	0.653	0.138	0.774	1.024
	DSI3	Left Tilt	0.118	0.350	0.223	0.116	0.468	0.457
	DSI3	Right Cheek	0.186	0.219	0.106	0.069	0.405	0.360
	DSI3	Right Tilt	0.085	0.288	0.101	0.095	0.373	0.282
LTE B7	DSI3	Left Cheek	0.226	0.542	0.653	0.138	0.768	1.017
	DSI3	Left Tilt	0.141	0.350	0.223	0.116	0.491	0.479
	DSI3	Right Cheek	0.410	0.219	0.106	0.069	0.630	0.585
	DSI3	Right Tilt	0.236	0.288	0.101	0.095	0.524	0.433
LTE B12	DSI3	Left Cheek	0.161	0.542	0.653	0.138	0.703	0.952
	DSI3	Left Tilt	0.083	0.350	0.223	0.116	0.433	0.421
	DSI3	Right Cheek	0.125	0.219	0.106	0.069	0.344	0.299

	DSI3	Right Tilt	0.065	0.288	0.101	0.095	0.353	0.262
LTE B66	DSI3	Left Cheek	0.195	0.542	0.653	0.138	0.737	0.986
	DSI3	Left Tilt	0.140	0.350	0.223	0.116	0.490	0.479
	DSI3	Right Cheek	0.123	0.219	0.106	0.069	0.343	0.298
	DSI3	Right Tilt	0.156	0.288	0.101	0.095	0.444	0.353
LTE B38	DSI3	Left Cheek	0.171	0.542	0.653	0.138	0.713	0.963
	DSI3	Left Tilt	0.121	0.350	0.223	0.116	0.471	0.460
	DSI3	Right Cheek	0.323	0.219	0.106	0.069	0.543	0.498
	DSI3	Right Tilt	0.180	0.288	0.101	0.095	0.468	0.377
LTE B41	DSI3	Left Cheek	0.157	0.542	0.653	0.138	0.699	0.948
	DSI3	Left Tilt	0.118	0.350	0.223	0.116	0.467	0.456
	DSI3	Right Cheek	0.318	0.219	0.106	0.069	0.537	0.492
	DSI3	Right Tilt	0.163	0.288	0.101	0.095	0.451	0.360

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.097 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.3 Body-Worn Simultaneous Transmission SAR Evaluation for WWAN Antenna Up and WLAN 2.4G/5G

Band	Power Reduction	Position	Stand alone SAR				SUM SAR	
			1	**2**	**3**	**4**		
			WWAN	2.4GWIFI	5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3+4)
GSM850	DSI 6	Front Side 15mm	0.199	0.111	0.163	0.016	0.310	0.378
	DSI 6	Back Side 15mm	0.231	0.176	0.487	0.021	0.407	0.739
GSM 1900	DSI 6	Front Side 15mm	0.165	0.111	0.163	0.016	0.276	0.344
	DSI 6	Back Side 15mm	0.206	0.176	0.487	0.021	0.382	0.714
WCDMA B2	DSI 6	Front Side 15mm	0.181	0.111	0.163	0.016	0.292	0.360
	DSI 6	Back Side 15mm	0.249	0.176	0.487	0.021	0.425	**0.757**
WCDMA B4	DSI 6	Front Side 15mm	0.207	0.111	0.163	0.016	0.318	0.386
	DSI 6	Back Side 15mm	0.244	0.176	0.487	0.021	0.420	0.752
WCDMA B5	DSI 6	Front Side 15mm	0.127	0.111	0.163	0.016	0.238	0.306
	DSI 6	Back Side 15mm	0.170	0.176	0.487	0.021	0.345	0.678
LTE B2	DSI 6	Front Side 15mm	0.179	0.111	0.163	0.016	0.290	0.358
	DSI 6	Back Side 15mm	0.225	0.176	0.487	0.021	0.401	0.733
LTE B4	DSI 6	Front Side 15mm	0.167	0.111	0.163	0.016	0.278	0.346
	DSI 6	Back Side 15mm	0.194	0.176	0.487	0.021	0.369	0.702
LTE B5	DSI 6	Front Side 15mm	0.124	0.111	0.163	0.016	0.235	0.303
	DSI 6	Back Side 15mm	0.143	0.176	0.487	0.021	0.319	0.651
LTE B7	DSI 6	Front Side 15mm	0.065	0.111	0.163	0.016	0.176	0.244
	DSI 6	Back Side 15mm	0.127	0.176	0.487	0.021	0.303	0.635
LTE B12	DSI 6	Front Side 15mm	0.105	0.111	0.163	0.016	0.216	0.284
	DSI 6	Back Side 15mm	0.123	0.176	0.487	0.021	0.299	0.631
LTE B66	DSI 6	Front Side 15mm	0.141	0.111	0.163	0.016	0.252	0.320
	DSI 6	Back Side 15mm	0.151	0.176	0.487	0.021	0.326	0.659
LTE B38	DSI 6	Front Side 15mm	0.132	0.111	0.163	0.016	0.243	0.311
	DSI 6	Back Side 15mm	0.209	0.176	0.487	0.021	0.384	0.717
LTE B41	DSI 6	Front Side 15mm	0.111	0.111	0.163	0.016	0.223	0.291
	DSI 6	Back Side 15mm	0.202	0.176	0.487	0.021	0.378	0.710

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.757 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.4 Body-Worn Simultaneous Transmission SAR Evaluation for WWAN Antenna Down and WLAN 2.4G/5G

Band	Power Reduction	Position	**Stand alone SAR**				**SUM SAR**	
			1	**2**	**3**	**4**		
			WWAN	2.4GWIFI	5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3+4)
GSM850	DSI 6	Front Side 15mm	0.251	0.111	0.163	0.016	0.362	0.430
	DSI 6	Back Side 15mm	0.439	0.176	0.487	0.021	0.615	0.947
GSM 1900	DSI 6	Front Side 15mm	0.202	0.111	0.163	0.016	0.313	0.381
	DSI 6	Back Side 15mm	0.364	0.176	0.487	0.021	0.540	0.872
WCDMA B2	DSI 6	Front Side 15mm	0.207	0.111	0.163	0.016	0.318	0.386
	DSI 6	Back Side 15mm	0.382	0.176	0.487	0.021	0.557	0.890
WCDMA B4	DSI 6	Front Side 15mm	0.239	0.111	0.163	0.016	0.350	0.418
	DSI 6	Back Side 15mm	0.420	0.176	0.487	0.021	0.596	0.928
WCDMA B5	DSI 6	Front Side 15mm	0.148	0.111	0.163	0.016	0.259	0.327
	DSI 6	Back Side 15mm	0.225	0.176	0.487	0.021	0.401	0.733
LTE B2	DSI 6	Front Side 15mm	0.195	0.111	0.163	0.016	0.306	0.374
	DSI 6	Back Side 15mm	0.351	0.176	0.487	0.021	0.527	0.859
LTE B4	DSI 6	Front Side 15mm	0.308	0.111	0.163	0.016	0.419	0.487
	DSI 6	Back Side 15mm	0.431	0.176	0.487	0.021	0.607	0.939
LTE B5	DSI 6	Front Side 15mm	0.161	0.111	0.163	0.016	0.272	0.340
	DSI 6	Back Side 15mm	0.292	0.176	0.487	0.021	0.468	0.800
LTE B7	DSI 6	Front Side 15mm	0.205	0.111	0.163	0.016	0.316	0.384
	DSI 6	Back Side 15mm	0.344	0.176	0.487	0.021	0.520	0.852
LTE B12	DSI 6	Front Side 15mm	0.193	0.111	0.163	0.016	0.304	0.372
	DSI 6	Back Side 15mm	0.340	0.176	0.487	0.021	0.516	0.848
LTE B66	DSI 6	Front Side 15mm	0.273	0.111	0.163	0.016	0.384	0.452
	DSI 6	Back Side 15mm	0.440	0.176	0.487	0.021	0.616	**0.948**
LTE B38	DSI 6	Front Side 15mm	0.217	0.111	0.163	0.016	0.328	0.396
	DSI 6	Back Side 15mm	0.293	0.176	0.487	0.021	0.468	0.801
LTE B41	DSI 6	Front Side 15mm	0.207	0.111	0.163	0.016	0.319	0.387
	DSI 6	Back Side 15mm	0.327	0.176	0.487	0.021	0.503	0.835

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.948 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.5 Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna Up and WLAN 2.4G/5G

Band	Power Reduction	Position	Stand alone SAR				SUM SAR	
			1	2	3	4		
			WWAN	2.4GWIFI	5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3+4)
GSM850	DSI 6	Front Side 10mm	0.282	0.222	0.176	0.026	0.504	0.484
	DSI 6	Back Side 10mm	0.443	0.399	0.475	0.047	0.841	0.965
	DSI 6	Left Edge 10mm	0.183	0.256	0.741	0.030	0.439	0.954
	DSI 6	Right Edge 10mm	0.187	0.032	0.053	0.004	0.219	0.244
	DSI 6	Top Edge 10mm	0.326	0.382	0.136	0.045	0.708	0.506
GSM 1900	DSI 6	Front Side 10mm	0.320	0.222	0.176	0.026	0.542	0.522
	DSI 6	Back Side 10mm	0.381	0.399	0.475	0.047	0.779	0.902
	DSI 6	Left Edge 10mm	0.043	0.256	0.741	0.030	0.299	0.814
	DSI 6	Right Edge 10mm	0.094	0.032	0.053	0.004	0.126	0.151
	DSI 6	Top Edge 10mm	0.568	0.382	0.136	0.045	0.950	0.749
WCDMA B2	DSI 6	Front Side 10mm	0.469	0.222	0.176	0.026	0.691	0.671
	DSI 6	Back Side 10mm	0.622	0.399	0.475	0.047	1.020	1.144
	DSI 6	Left Edge 10mm	0.117	0.256	0.741	0.030	0.373	0.888
	DSI 6	Right Edge 10mm	0.177	0.032	0.053	0.004	0.209	0.234
	DSI 6	Top Edge 10mm	0.797	0.382	0.136	0.045	**1.179**	0.978
WCDMA B4	DSI 6	Front Side 10mm	0.520	0.222	0.176	0.026	0.742	0.722
	DSI 6	Back Side 10mm	0.613	0.399	0.475	0.047	1.011	1.135
	DSI 6	Left Edge 10mm	0.142	0.256	0.741	0.030	0.398	0.913
	DSI 6	Right Edge 10mm	0.204	0.032	0.053	0.004	0.236	0.261
	DSI 6	Top Edge 10mm	0.666	0.382	0.136	0.045	1.048	0.847
WCDMA B5	DSI 6	Front Side 10mm	0.208	0.222	0.176	0.026	0.431	0.410
	DSI 6	Back Side 10mm	0.324	0.399	0.475	0.047	0.722	0.845
	DSI 6	Left Edge 10mm	0.069	0.256	0.741	0.030	0.325	0.840
	DSI 6	Right Edge 10mm	0.148	0.032	0.053	0.004	0.179	0.204
	DSI 6	Top Edge 10mm	0.241	0.382	0.136	0.045	0.623	0.421
LTE B2	DSI 6	Front Side 10mm	0.346	0.222	0.176	0.026	0.568	0.548
	DSI 6	Back Side 10mm	0.456	0.399	0.475	0.047	0.855	0.978
	DSI 6	Left Edge 10mm	0.025	0.256	0.741	0.030	0.282	0.796
	DSI 6	Right Edge 10mm	0.078	0.032	0.053	0.004	0.109	0.135
	DSI 6	Top Edge 10mm	0.613	0.382	0.136	0.045	0.995	0.793
LTE B4	DSI 6	Front Side 10mm	0.348	0.222	0.176	0.026	0.570	0.550
	DSI 6	Back Side 10mm	0.386	0.399	0.475	0.047	0.785	0.908
	DSI 6	Left Edge 10mm	0.023	0.256	0.741	0.030	0.280	0.794
	DSI 6	Right Edge 10mm	0.089	0.032	0.053	0.004	0.120	0.145
	DSI 6	Top Edge 10mm	0.549	0.382	0.136	0.045	0.931	0.729
LTE B5	DSI 6	Front Side 10mm	0.187	0.222	0.176	0.026	0.409	0.389
	DSI 6	Back Side 10mm	0.291	0.399	0.475	0.047	0.689	0.812
	DSI 6	Left Edge 10mm	0.123	0.256	0.741	0.030	0.379	0.894
	DSI 6	Right Edge 10mm	0.105	0.032	0.053	0.004	0.136	0.162

	DSI 6	Top Edge 10mm	0.228	0.382	0.136	0.045	0.610	0.408
LTE B7	DSI 6	Front Side 10mm	0.121	0.222	0.176	0.026	0.343	0.323
	DSI 6	Back Side 10mm	0.279	0.399	0.475	0.047	0.678	0.801
	DSI 6	Left Edge 10mm	0.018	0.256	0.741	0.030	0.274	0.789
	DSI 6	Right Edge 10mm	0.208	0.032	0.053	0.004	0.239	0.265
	DSI 6	Top Edge 10mm	0.263	0.382	0.136	0.045	0.645	0.443
LTE B12	DSI 6	Front Side 10mm	0.095	0.222	0.176	0.026	0.317	0.297
	DSI 6	Back Side 10mm	0.117	0.399	0.475	0.047	0.515	0.639
	DSI 6	Left Edge 10mm	0.099	0.256	0.741	0.030	0.355	0.870
	DSI 6	Right Edge 10mm	0.142	0.032	0.053	0.004	0.174	0.199
	DSI 6	Top Edge 10mm	0.066	0.382	0.136	0.045	0.448	0.247
LTE B66	DSI 6	Front Side 10mm	0.287	0.222	0.176	0.026	0.510	0.490
	DSI 6	Back Side 10mm	0.291	0.399	0.475	0.047	0.690	0.813
	DSI 6	Left Edge 10mm	0.024	0.256	0.741	0.030	0.280	0.795
	DSI 6	Right Edge 10mm	0.073	0.032	0.053	0.004	0.105	0.130
	DSI 6	Top Edge 10mm	0.477	0.382	0.136	0.045	0.859	0.658
LTE B38	DSI 6	Front Side 10mm	0.238	0.222	0.176	0.026	0.460	0.440
	DSI 6	Back Side 10mm	0.412	0.399	0.475	0.047	0.811	0.934
	DSI 6	Left Edge 10mm	0.020	0.256	0.741	0.030	0.277	0.791
	DSI 6	Right Edge 10mm	0.405	0.032	0.053	0.004	0.436	0.462
	DSI 6	Top Edge 10mm	0.336	0.382	0.136	0.045	0.719	0.517
LTE B41	DSI 6	Front Side 10mm	0.202	0.222	0.176	0.026	0.424	0.404
	DSI 6	Back Side 10mm	0.388	0.399	0.475	0.047	0.786	0.910
	DSI 6	Left Edge 10mm	0.024	0.256	0.741	0.030	0.280	0.794
	DSI 6	Right Edge 10mm	0.374	0.032	0.053	0.004	0.406	0.431
	DSI 6	Top Edge 10mm	0.336	0.382	0.136	0.045	0.718	0.516

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.179 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.6 Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna Down and WLAN 2.4G/5G

Band	Power Reduction	Position	**Stand alone SAR**				**SUM SAR**	
			1	**2**	**3**	**4**		
			WWAN	2.4GWIFI	5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3+4)
GSM850	DSI 6	Front Side 10mm	0.435	0.222	0.176	0.026	0.657	0.637
	DSI 6	Back Side 10mm	0.722	0.399	0.475	0.047	1.120	1.244
	DSI 6	Left Edge 10mm	0.160	0.256	0.741	0.030	0.417	0.931
	DSI 6	Right Edge 10mm	0.402	0.032	0.053	0.004	0.433	0.458
	DSI 6	Bottom Edge 10mm	0.205	0.014	0.029	0.002	0.219	0.236
GSM 1900	DSI 6	Front Side 10mm	0.347	0.222	0.176	0.026	0.569	0.549
	DSI 6	Back Side 10mm	0.667	0.399	0.475	0.047	1.065	1.189
	DSI 6	Left Edge 10mm	0.177	0.256	0.741	0.030	0.433	0.948
	DSI 6	Right Edge 10mm	0.117	0.032	0.053	0.004	0.149	0.174
	DSI 6	Bottom Edge 10mm	0.749	0.014	0.029	0.002	0.763	0.780
WCDMA B2	DSI 6	Front Side 10mm	0.364	0.222	0.176	0.026	0.586	0.566
	DSI 6	Back Side 10mm	0.705	0.399	0.475	0.047	1.103	1.227
	DSI 6	Left Edge 10mm	0.196	0.256	0.741	0.030	0.452	0.967
	DSI 6	Right Edge 10mm	0.114	0.032	0.053	0.004	0.146	0.171
	DSI 6	Bottom Edge 10mm	0.790	0.014	0.029	0.002	0.805	0.821
WCDMA B4	DSI 6	Front Side 10mm	0.403	0.222	0.176	0.026	0.625	0.605
	DSI 6	Back Side 10mm	0.694	0.399	0.475	0.047	1.093	1.216
	DSI 6	Left Edge 10mm	0.198	0.256	0.741	0.030	0.455	0.969
	DSI 6	Right Edge 10mm	0.078	0.032	0.053	0.004	0.110	0.135
	DSI 6	Bottom Edge 10mm	0.752	0.014	0.029	0.002	0.766	0.783
WCDMA B5	DSI 6	Front Side 10mm	0.252	0.222	0.176	0.026	0.474	0.454
	DSI 6	Back Side 10mm	0.464	0.399	0.475	0.047	0.863	0.986
	DSI 6	Left Edge 10mm	0.014	0.256	0.741	0.030	0.270	0.785
	DSI 6	Right Edge 10mm	0.209	0.032	0.053	0.004	0.240	0.265
	DSI 6	Bottom Edge 10mm	0.099	0.014	0.029	0.002	0.113	0.130
LTE B2	DSI 6	Front Side 10mm	0.338	0.222	0.176	0.026	0.561	0.540
	DSI 6	Back Side 10mm	0.661	0.399	0.475	0.047	1.060	1.183
	DSI 6	Left Edge 10mm	0.205	0.256	0.741	0.030	0.462	0.976
	DSI 6	Right Edge 10mm	0.127	0.032	0.053	0.004	0.158	0.183
	DSI 6	Bottom Edge 10mm	0.706	0.014	0.029	0.002	0.720	0.737
LTE B4	DSI 6	Front Side 10mm	0.541	0.222	0.176	0.026	0.763	0.743
	DSI 6	Back Side 10mm	0.793	0.399	0.475	0.047	1.191	1.314
	DSI 6	Left Edge 10mm	0.272	0.256	0.741	0.030	0.529	1.043
	DSI 6	Right Edge 10mm	0.108	0.032	0.053	0.004	0.140	0.165
	DSI 6	Bottom Edge 10mm	0.850	0.014	0.029	0.002	0.864	0.881
LTE B5	DSI 6	Front Side 10mm	0.265	0.222	0.176	0.026	0.488	0.468
	DSI 6	Back Side 10mm	0.475	0.399	0.475	0.047	0.874	0.997
	DSI 6	Left Edge 10mm	0.115	0.256	0.741	0.030	0.372	0.886
	DSI 6	Right Edge 10mm	0.226	0.032	0.053	0.004	0.257	0.283

	DSI 6	Bottom Edge 10mm	0.133	0.014	0.029	0.002	0.147	0.164
LTE B7	DSI 6	Front Side 10mm	0.396	0.222	0.176	0.026	0.618	0.598
	DSI 6	Back Side 10mm	0.473	0.399	0.475	0.047	0.871	0.995
	DSI 6	Left Edge 10mm	0.308	0.256	0.741	0.030	0.565	1.079
	DSI 6	Right Edge 10mm	0.066	0.032	0.053	0.004	0.097	0.123
	DSI 6	Bottom Edge 10mm	0.339	0.014	0.029	0.002	0.353	0.370
LTE B12	DSI 6	Front Side 10mm	0.176	0.222	0.176	0.026	0.398	0.378
	DSI 6	Back Side 10mm	0.324	0.399	0.475	0.047	0.722	0.846
	DSI 6	Left Edge 10mm	0.154	0.256	0.741	0.030	0.410	0.925
	DSI 6	Right Edge 10mm	0.459	0.032	0.053	0.004	0.491	0.516
	DSI 6	Bottom Edge 10mm	0.033	0.014	0.029	0.002	0.048	0.064
LTE B66	DSI 6	Front Side 10mm	0.455	0.222	0.176	0.026	0.677	0.657
	DSI 6	Back Side 10mm	0.839	0.399	0.475	0.047	1.237	**1.361**
	DSI 6	Left Edge 10mm	0.248	0.256	0.741	0.030	0.505	1.019
	DSI 6	Right Edge 10mm	0.104	0.032	0.053	0.004	0.136	0.161
	DSI 6	Bottom Edge 10mm	0.798	0.014	0.029	0.002	0.812	0.829
LTE B38	DSI 6	Front Side 10mm	0.416	0.222	0.176	0.026	0.639	0.618
	DSI 6	Back Side 10mm	0.610	0.399	0.475	0.047	1.008	1.132
	DSI 6	Left Edge 10mm	0.302	0.256	0.741	0.030	0.559	1.073
	DSI 6	Right Edge 10mm	0.061	0.032	0.053	0.004	0.093	0.118
	DSI 6	Bottom Edge 10mm	0.354	0.014	0.029	0.002	0.368	0.385
LTE B41	DSI 6	Front Side 10mm	0.392	0.222	0.176	0.026	0.615	0.594
	DSI 6	Back Side 10mm	0.481	0.399	0.475	0.047	0.879	1.003
	DSI 6	Left Edge 10mm	0.279	0.256	0.741	0.030	0.536	1.050
	DSI 6	Right Edge 10mm	0.058	0.032	0.053	0.004	0.090	0.115
	DSI 6	Bottom Edge 10mm	0.296	0.014	0.029	0.002	0.310	0.327

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.361 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.7 Specific Simultaneous Transmission SAR Evaluation for WWAN Antenna Up and WLAN 5G

Band	Power Reduction	Position	**Stand alone SAR**		**Sum SAR**
			1	**2**	
			WWAN	5G WIFI	Sum SAR (1+2)
GSM1900	DSI5	Front Side 0mm	/	0.581	0.581
	DSI5	Back Side 0mm	/	0.804	0.804
	DSI5	Top Edge 0mm	0.820	0.217	1.037
WCDMA B2	DSI5	Front Side 0mm	1.026	0.581	1.607
	DSI5	Back Side 0mm	1.069	0.804	**1.873**
	DSI5	Top Edge 0mm	0.929	0.217	1.146
WCDMA B4	DSI5	Front Side 0mm	1.052	0.581	1.633
	DSI5	Back Side 0mm	0.847	0.804	1.651
	DSI5	Top Edge 0mm	1.032	0.217	1.248
LTE B2	DSI5	Front Side 0mm	/	0.581	0.581
	DSI5	Back Side 0mm	0.937	0.804	1.741
	DSI5	Top Edge 0mm	1.020	0.217	1.237
LTE B4	DSI5	Front Side 0mm	/	0.581	0.581
	DSI5	Back Side 0mm	/	0.804	0.804
	DSI5	Top Edge 0mm	1.390	0.217	1.607
LTE B7	DSI5	Front Side 0mm	/	0.581	0.581
	DSI5	Back Side 0mm	/	0.804	0.804
	DSI5	Top Edge 0mm	/	0.217	0.217
LTE B66	DSI5	Front Side 0mm	/	0.581	0.581
	DSI5	Back Side 0mm	/	0.804	0.804
	DSI5	Top Edge 0mm	1.431	0.217	1.648

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 10g SAR is 1.873 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

14 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.8.8.1222	N/A	N/A
750MHz Validation Dipole	Speag	D750V3	SN: 1201	2020/11/11	2023/11/10
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2021/05/17	2024/05/16
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2021/05/17	2024/05/16
1900MHz Validation Dipole	Speag	D1900V2	SN: 5d193	2021/05/20	2024/05/19
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2021/05/19	2024/05/18
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2021/05/19	2024/05/18
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2021/05/18	2024/05/17
E-Field Probe	Speag	EX3DV4	SN: 7510	2020/11/30	2021/11/29
Data Acquisition Electronics	Speag	DAE4	SN: 1454	2020/11/06	2021/11/05
Signal Generator	R&S	SMB100A	182396	2020/12/21	2021/12/20
Power Meter	R&S	NRVD-B2	7250BJ-0112/2011	2020/09/25	2021/09/24
Power Sensor	R&S	NRV-Z4	100381	2020/09/25	2021/09/24
Wireless Communication Test Set	Anritsu	MT8820C	6201502974	2021/03/16	2022/03/15
Wireless Communication Test Set	Anritsu	MT8820C	6201502991	2021/03/16	2022/03/15
Network Analyzer	Agilent	E5071B	MY42404001	2021/04/01	2022/03/31
Thermometer	Elitech	RC-4HC	EF720B004820	2020/12/24	2021/12/23
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	SATIMO	SCLMP	SN 25/13 OCPG56	N/A	N/A
Phantom1	Speag	SAM	SN: 1859	N/A	N/A
Phantom2	Speag	SAM	SN: 1857	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, BALUN has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an SCLMP Dielectric Probe Kit.

Head Liquid

Date	Liquid Type	Fre. (MHz)	Temp. (℃)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity (σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2021.07.20	Head	750	21.4	0.91	40.72	0.89	41.94	2.25	-2.91
2021.07.23	Head	835	21.7	0.89	41.90	0.90	41.50	-1.11	0.96
2021.07.21	Head	835	21.9	0.88	42.63	0.90	41.50	-2.22	2.72
2021.07.26	Head	1750	20.9	1.39	40.13	1.37	40.08	1.46	0.12
2021.07.31	Head	1750	20.8	1.36	40.54	1.37	40.08	-0.73	1.15
2021.07.29	Head	1750	21.3	1.40	39.53	1.37	40.08	2.19	-1.37
2021.07.22	Head	1750	21.4	1.39	39.79	1.37	40.08	1.46	-0.72
2021.07.25	Head	1750	20.8	1.38	40.30	1.37	40.08	0.73	0.55
2021.07.25	Head	1900	21.7	1.45	39.54	1.40	40.00	3.57	-1.15
2021.07.24	Head	1900	22.1	1.43	39.90	1.40	40.00	2.14	-0.25
2021.07.27	Head	1900	21.3	1.40	40.44	1.40	40.00	0.00	1.10
2021.07.28	Head	1900	21.3	1.40	40.67	1.40	40.00	0.00	1.68
2021.07.30	Head	2450	21.4	1.80	38.80	1.80	39.20	0.00	-1.02
2021.08.02	Head	2600	20.9	2.00	39.35	1.96	39.01	2.04	0.87
2021.08.03	Head	2600	21.7	2.00	39.80	1.96	39.01	2.04	2.03
2021.08.05	Head	2600	21.5	1.95	39.27	1.96	39.01	-0.51	0.67
2021.08.05	Head	2600	21.2	1.96	39.14	1.96	39.01	0.00	0.33
2021.08.06	Head	2600	21.2	1.93	38.21	1.96	39.01	-1.53	-2.05
2021.08.07	Head	5250	21.3	4.57	36.77	4.71	35.93	-2.97	2.34
2021.08.09	Head	5600	21.5	5.17	35.56	5.07	35.53	1.97	0.08
2021.08.10	Head	5750	21.2	5.22	35.12	5.22	35.36	0.00	-0.68
Note: The tolerance limit of Conductivity and Permittivity is± 5%.									

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within its specification of 10 %(for 1 g).

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2021.07.20	Head	750	100	0.854	8.54	8.29	3.02
2021.07.23	Head	835	100	0.915	9.15	9.76	-6.25
2021.07.21	Head	835	100	1.030	10.30	9.76	5.53
2021.07.26	Head	1750	100	3.740	37.40	36.70	1.91
2021.07.31	Head	1750	100	3.830	38.30	36.70	4.36
2021.07.29	Head	1750	100	3.720	37.20	36.70	1.36
2021.07.22	Head	1750	100	3.790	37.90	36.70	3.27
2021.07.25	Head	1750	100	3.750	37.50	36.70	2.18
2021.07.25	Head	1900	100	4.160	41.60	40.30	3.23
2021.07.24	Head	1900	100	3.910	39.10	40.30	-2.98
2021.07.27	Head	1900	100	3.840	38.40	40.30	-4.71
2021.07.28	Head	1900	100	4.060	40.60	40.30	0.74
2021.07.30	Head	2450	100	5.330	53.30	53.00	0.57
2021.08.02	Head	2600	100	5.420	54.20	56.80	-4.58
2021.08.03	Head	2600	100	5.570	55.70	56.80	-1.94
2021.08.05	Head	2600	100	5.510	55.10	56.80	-2.99
2021.08.05	Head	2600	100	5.380	53.80	56.80	-5.28
2021.08.06	Head	2600	100	5.520	55.20	56.80	-2.82
2021.08.07	Head	5250	100	7.330	73.30	77.80	-5.78
2021.08.09	Head	5600	100	8.460	84.60	81.20	4.19
2021.08.10	Head	5750	100	8.250	82.50	77.20	6.87
Note: The tolerance limit of System validation ±10%.							

Head liquid 10g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2021.07.31	Head	1750	100	2.020	20.20	19.10	5.76
2021.07.29	Head	1750	100	1.980	19.80	19.10	3.66
2021.07.22	Head	1750	100	2.030	20.30	19.10	6.28
2021.07.24	Head	1900	100	2.140	21.40	20.30	5.42
2021.07.27	Head	1900	100	2.030	20.30	20.30	0.00
2021.07.28	Head	1900	100	2.160	21.60	20.30	6.40
2021.08.02	Head	2600	100	2.390	23.90	24.80	-3.63
2021.08.03	Head	2600	100	2.460	24.60	24.80	-0.81
2021.08.06	Head	2600	100	2.380	23.80	24.80	-4.03
2021.08.07	Head	5250	100	2.070	20.70	22.10	-6.33
2021.08.09	Head	5600	100	2.410	24.10	23.10	4.33
2021.08.10	Head	5750	100	2.340	23.40	21.70	7.83
Note: The tolerance limit of System validation ±10%.							

System Performance Check Data (750MHz)

Date: 2021.07.20

Communication System Band: D750 (750.0 MHz); Frequency: 750 MHz;Duty Cycle: 1:1

Medium parameters used (extrapolated): f = 750 MHz; σ = 0.908 S/m; ε_r = 40.721; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.31, 10.31, 10.31); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 750/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.916 W/kg

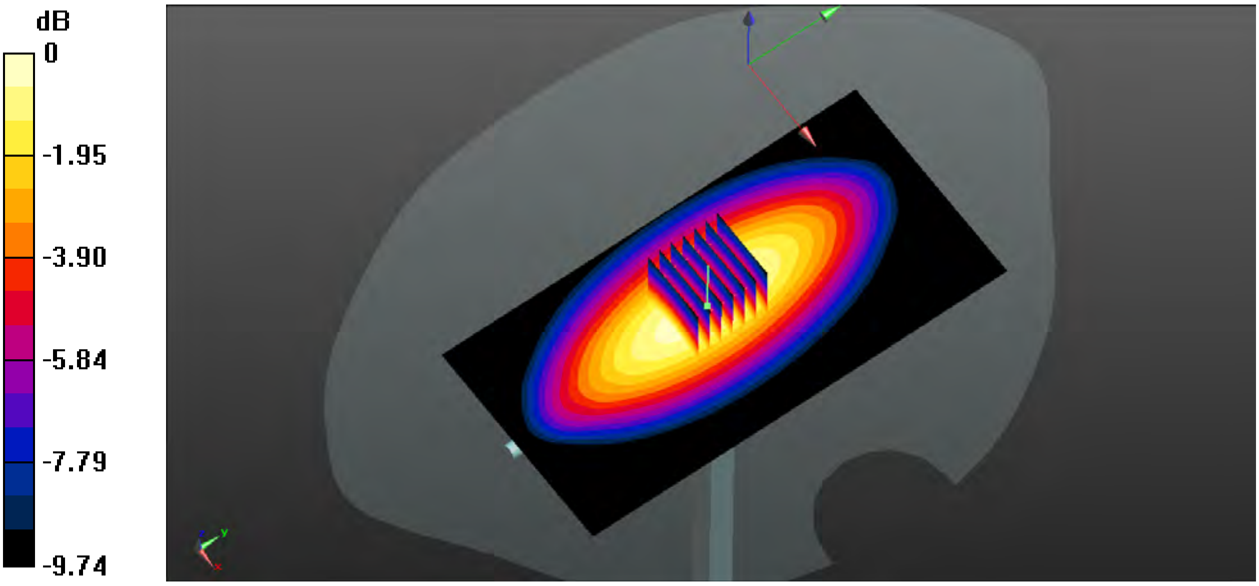
CW 750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.09 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.854 W/kg; SAR(10 g) = 0.569 W/kg

Maximum value of SAR (measured) = 0.914 W/kg



0 dB = 0.914 W/kg

System Performance Check Data (835MHz)

Date: 2021.07.23

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; $\sigma = 0.891$ S/m; $\varepsilon_r = 41.895$; $\rho = 1000$ kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 835/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.985 W/kg

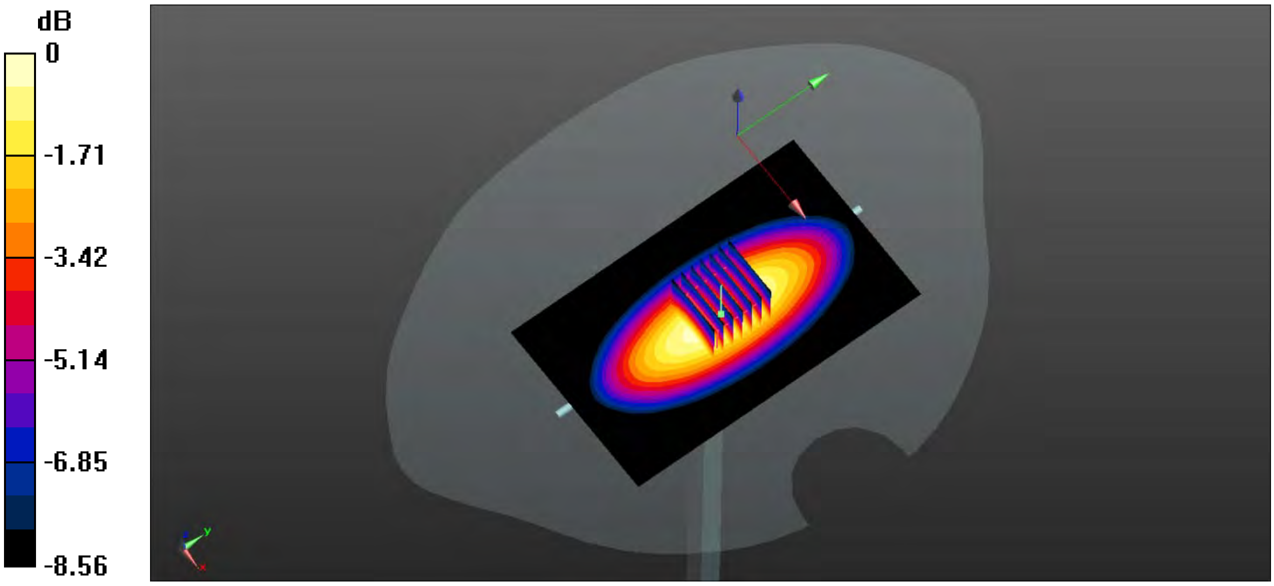
CW 835/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.14 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.915 W/kg; SAR(10 g) = 0.626 W/kg

Maximum value of SAR (measured) = 0.984 W/kg



0 dB = 0.984 W/kg

System Performance Check Data (835MHz)

Date: 2021.07.21

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; $\sigma = 0.876$ S/m; $\varepsilon_r = 42.634$; $\rho = 1000$ kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.9

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 835/Area Scan (61x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.05 W/kg

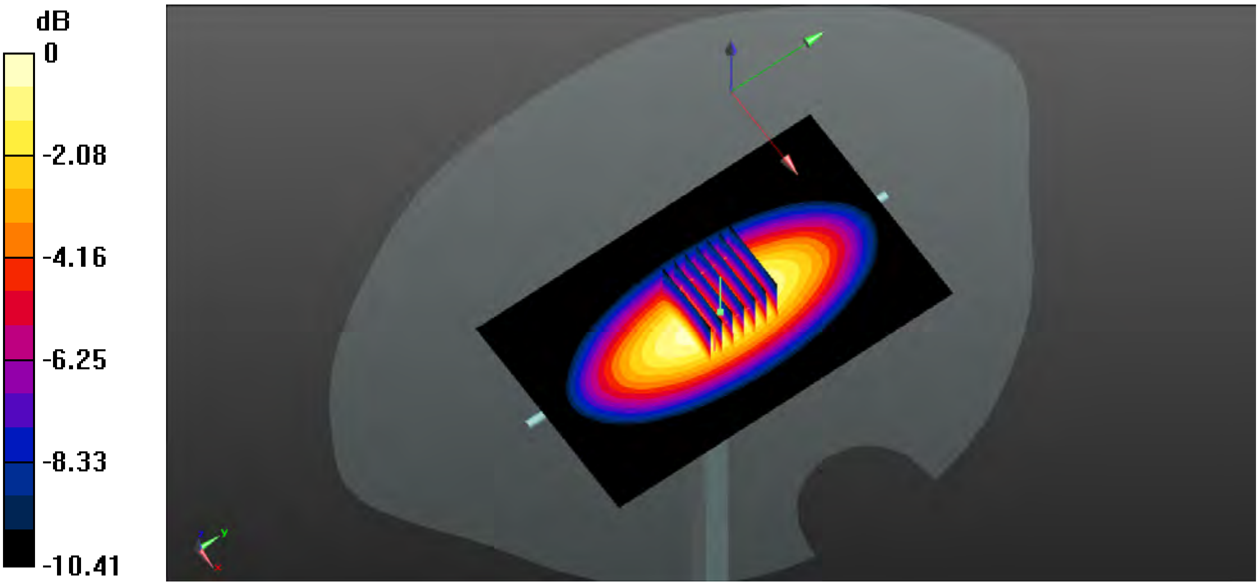
CW 835/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.61 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.656 W/kg

Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg

System Performance Check Data (1750MHz)

Date: 2021.07.26

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; $\sigma = 1.384$ S/m; $\varepsilon_r = 40.131$; $\rho = 1000$ kg/m^3

Phantom section: Flat Section

Ambient Temperature:21.8 Liquid Temperature:20.9

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 1750/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.22 W/kg

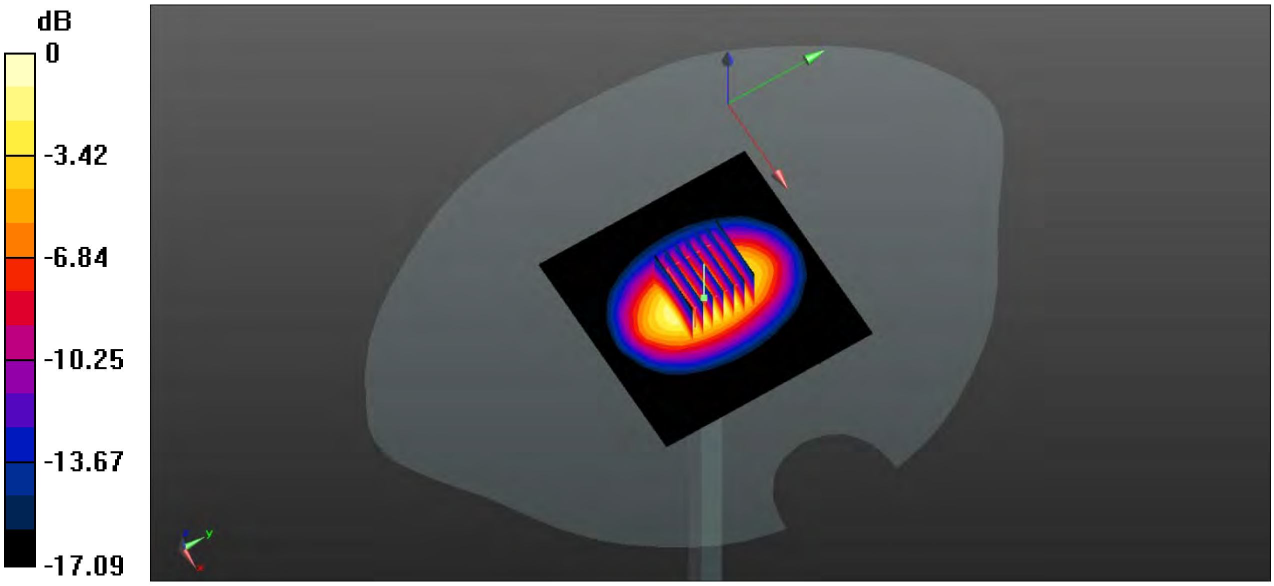
CW 1750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.18 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 7.03 W/kg

SAR(1 g) = 3.74 W/kg; SAR(10 g) = 1.97 W/kg

Maximum value of SAR (measured) = 4.25 W/kg



0 dB = 4.25 W/kg

System Performance Check Data (1750MHz)

Date: 2021.07.31

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1750 MHz; σ = 1.356 S/m; ε_r = 40.541; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:21.6 Liquid Temperature:20.8

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW1750/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.38 W/kg

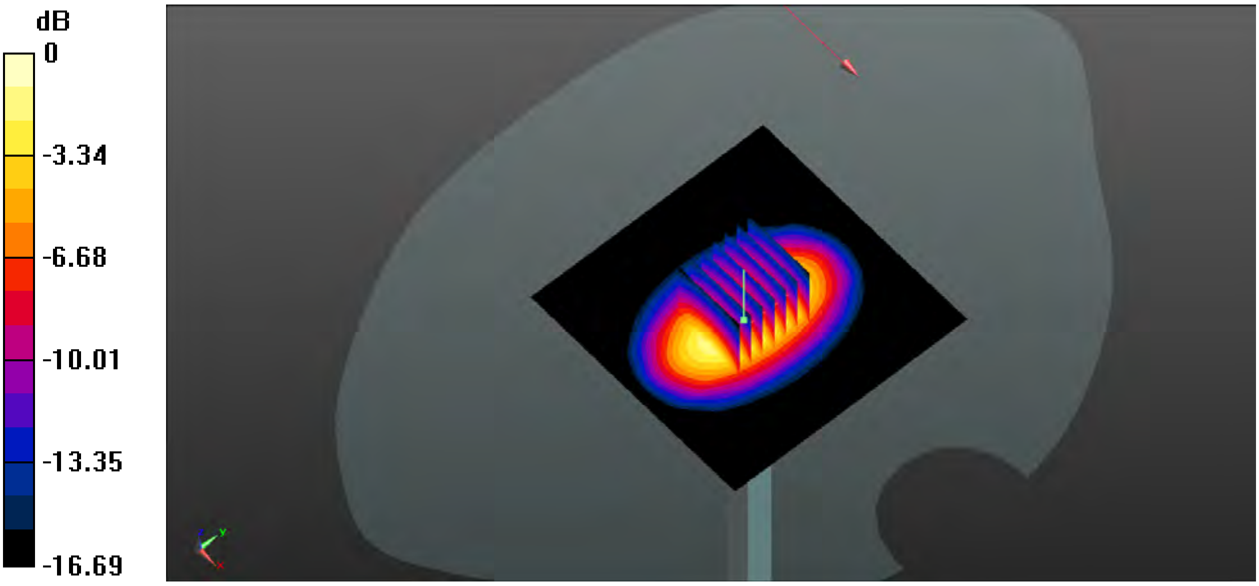
CW1750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.86 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 7.06 W/kg

SAR(1 g) = 3.83 W/kg; SAR(10 g) = 2.02 W/kg

Maximum value of SAR (measured) = 4.35 W/kg



0 dB = 4.35 W/kg

System Performance Check Data (1750MHz)

Date: 2021.07.29

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1750 MHz; σ = 1.404 S/m; ε_r = 39.532; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 1750/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.17 W/kg

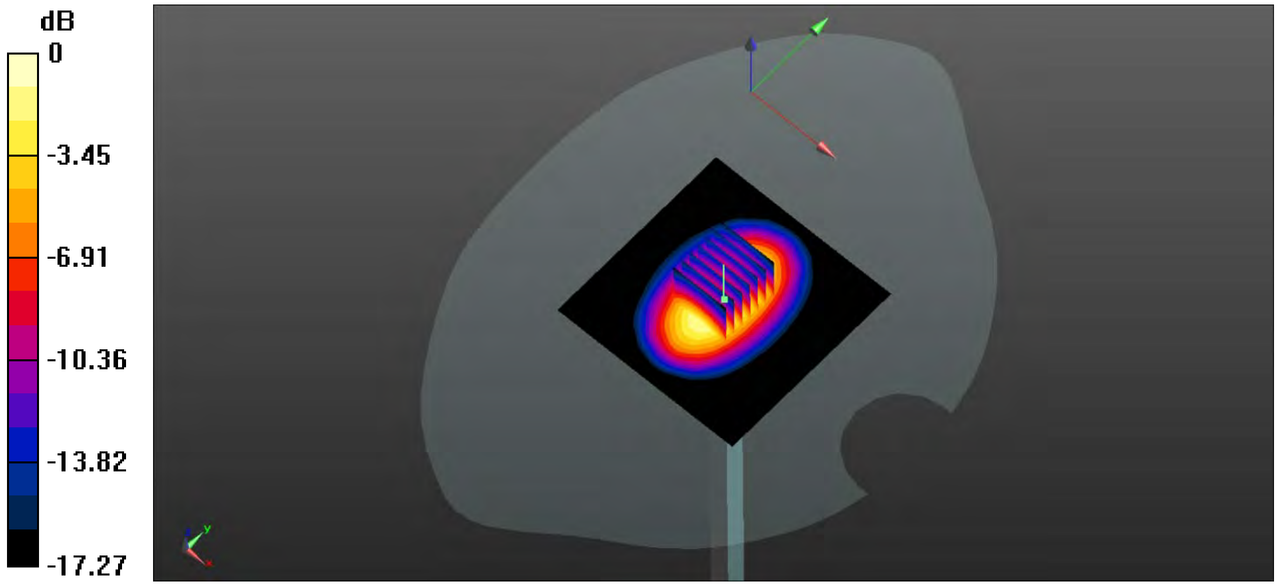
CW 1750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.15 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 6.98 W/kg

SAR(1 g) = 3.72 W/kg; SAR(10 g) = 1.98 W/kg

Maximum value of SAR (measured) = 4.16 W/kg



0 dB = 4.16 W/kg

System Performance Check Data (1750MHz)

Date: 2021.07.22

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1750 MHz; σ = 1.391 S/m; ε_r = 39.792; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 1750/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.36 W/kg

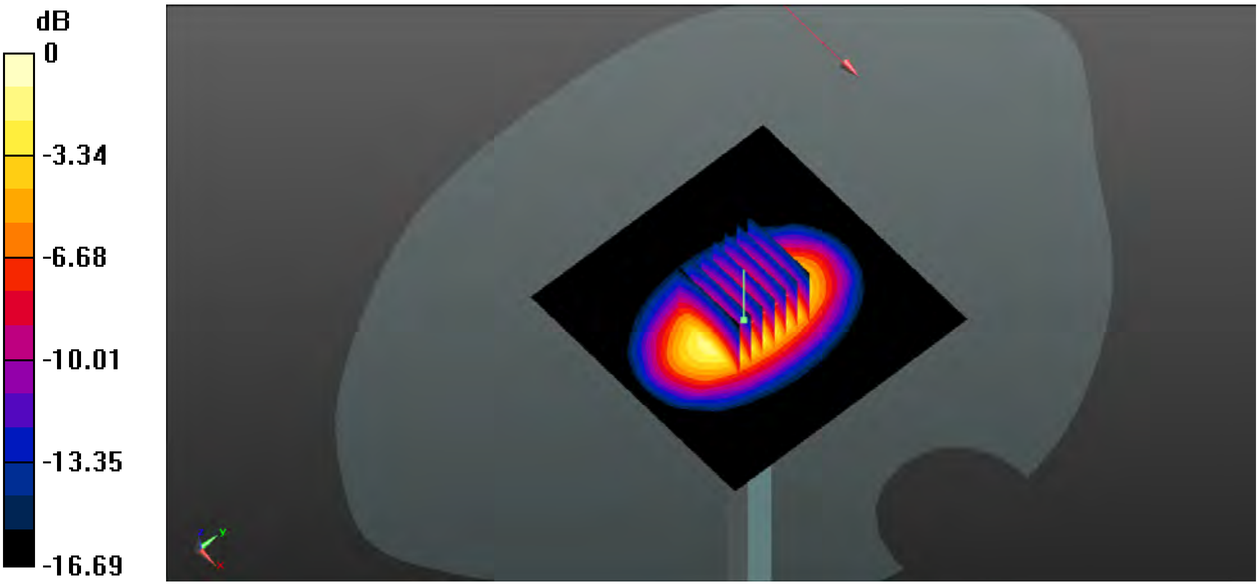
CW 1750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.61 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 7.04 W/kg

SAR(1 g) = 3.79 W/kg; SAR(10 g) = 2.03 W/kg

Maximum value of SAR (measured) = 4.31 W/kg



0 dB = 4.31 W/kg

System Performance Check Data (1750MHz)

Date: 2021.07.25

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; σ = 1.375 S/m; ε_r = 40.298; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:21.9 Liquid Temperature:20.8

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 1750 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.25 W/kg

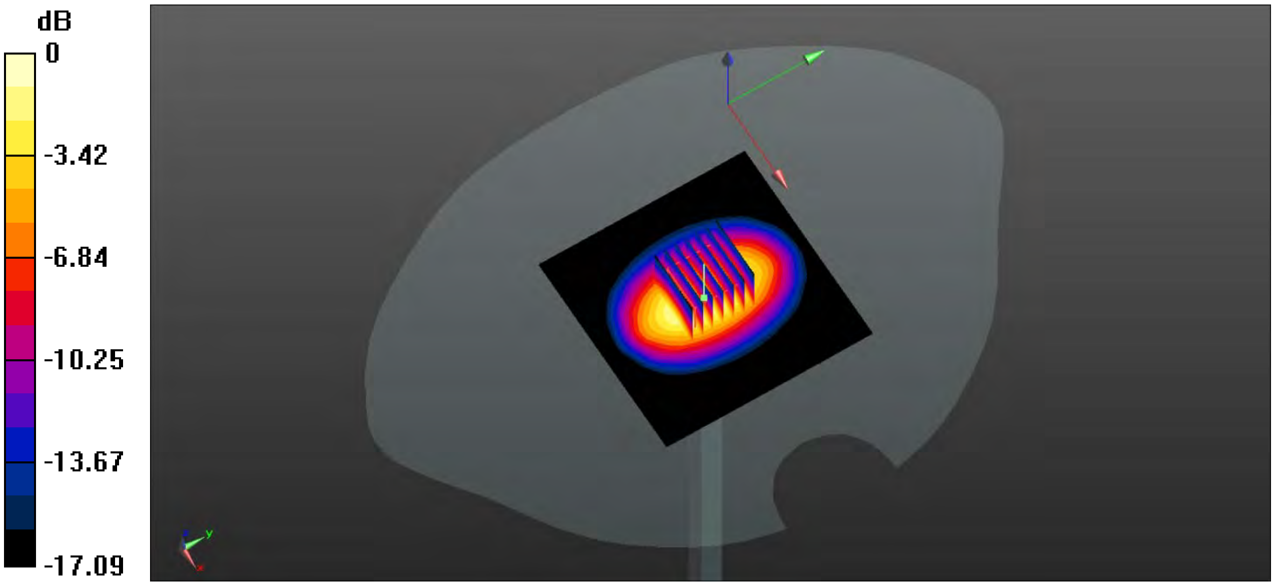
CW 1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.18 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 7.03 W/kg

SAR(1 g) = 3.75 W/kg; SAR(10 g) = 1.96 W/kg

Maximum value of SAR (measured) = 4.25 W/kg



0 dB = 4.25 W/kg

System Performance Check Data (1900MHz)

Date: 2021.07.25

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.453 S/m; ε_r = 39.541; ρ = 1000 kg/m^3

Phantom section: Flat Section

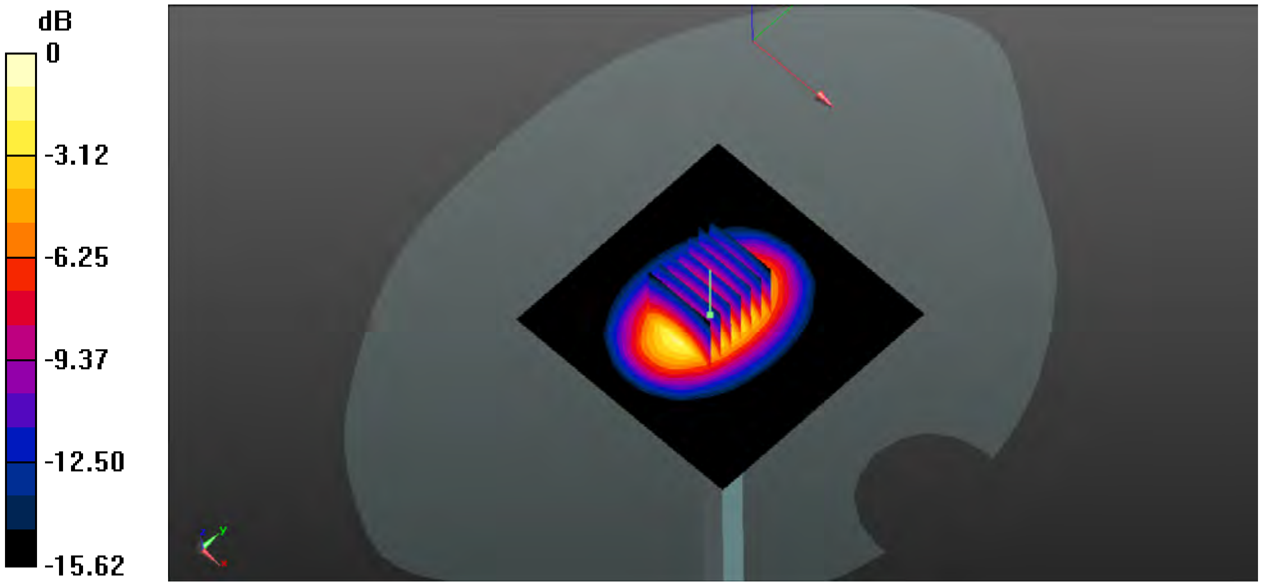
Ambient Temperature:22.6 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 1900/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 4.64 W/kg

CW 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 55.53 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 7.37 W/kg
SAR(1 g) = 4.16 W/kg; SAR(10 g) = 2.15 W/kg
Maximum value of SAR (measured) = 4.66 W/kg



0 dB = 4.66 W/kg

System Performance Check Data (1900MHz)

Date: 2021.07.24

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.431 S/m; ε_r = 39.898; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.9 Liquid Temperature:22.1

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 1900/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.44 W/kg

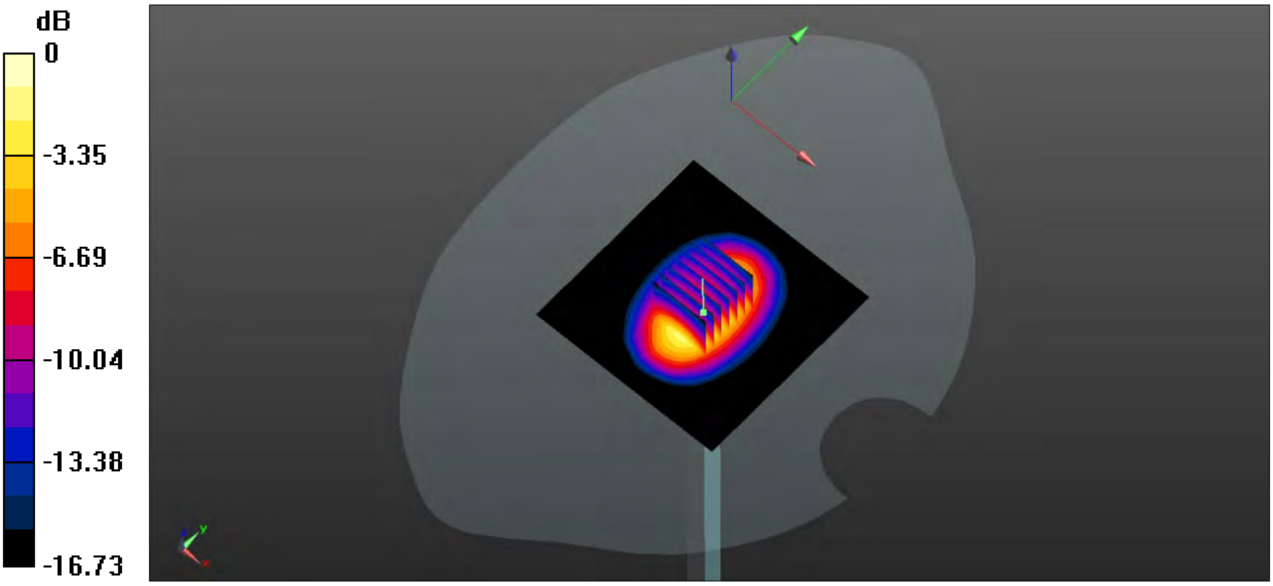
CW 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.96 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 7.08 W/kg

SAR(1 g) = 3.91 W/kg; SAR(10 g) = 2.14 W/kg

Maximum value of SAR (measured) = 4.44 W/kg



0 dB = 4.44 W/kg

System Performance Check Data (1900MHz)

Date: 2021.07.27

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.398 S/m; ε_r = 40.436; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 1900/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.37 W/kg

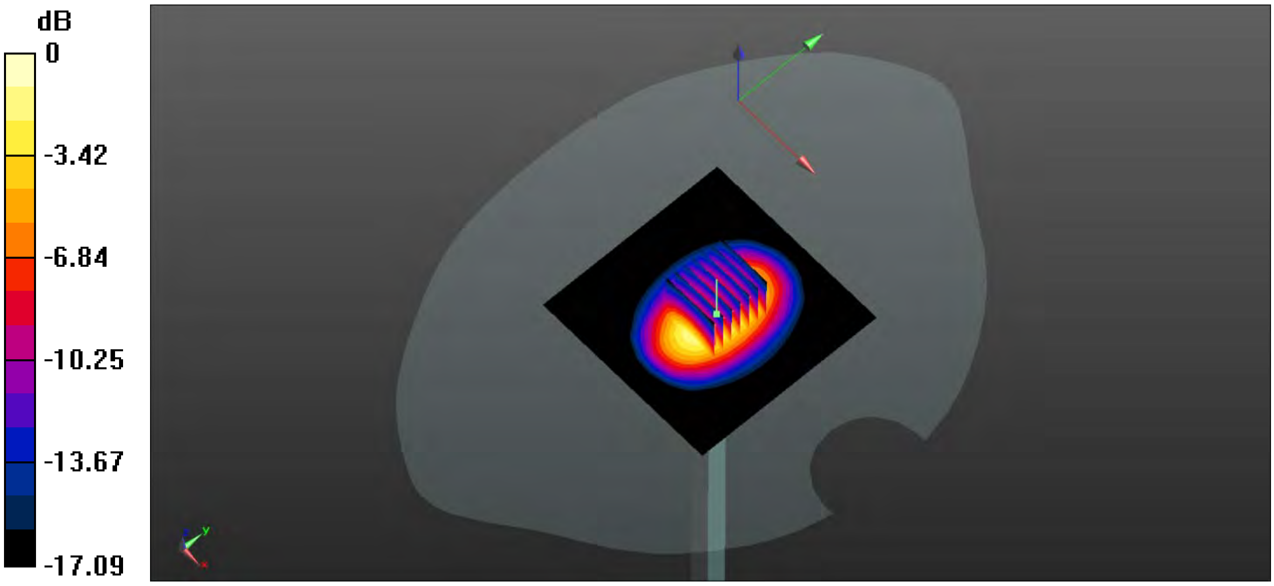
CW 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.71 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 7.21 W/kg

SAR(1 g) = 3.84 W/kg; SAR(10 g) = 2.03 W/kg

Maximum value of SAR (measured) = 4.35 W/kg



0 dB = 4.35 W/kg

System Performance Check Data (1900MHz)

Date: 2021.07.28

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; σ = 1.402 S/m; ε_r = 40.665; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 1900/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.57 W/kg

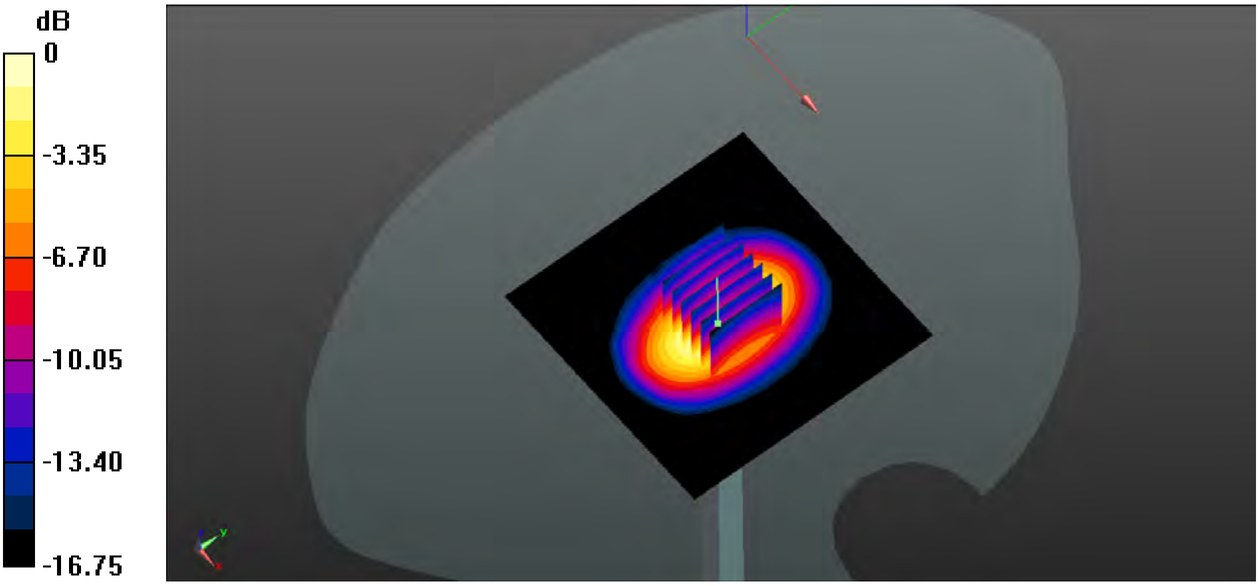
CW 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.78 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 7.33 W/kg

SAR(1 g) = 4.06 W/kg; SAR(10 g) = 2.16 W/kg

Maximum value of SAR (measured) = 4.54 W/kg



0 dB = 4.54 W/kg

System Performance Check Data (2450MHz)

Date: 2021.07.30

Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; σ = 1.798 S/m; ε_r = 38.796; ρ = 1000 kg/m^3

Phantom section: Flat Section

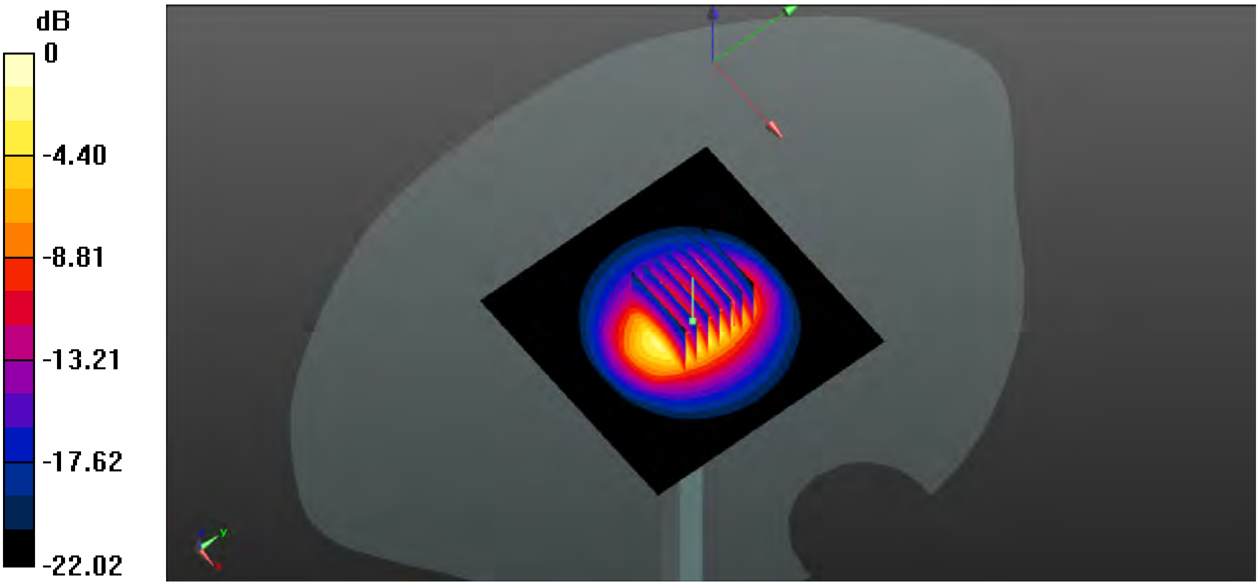
Ambient Temperature:22.7 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 2450 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 6.14 W/kg

CW 2450 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 55.26 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 11.0 W/kg
SAR(1 g) = 5.33 W/kg; SAR(10 g) = 2.42 W/kg
Maximum value of SAR (measured) = 6.07 W/kg



0 dB = 6.07 W/kg

System Performance Check Data (2600MHz)

Date: 2021.08.02

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; σ = 1.996 S/m; ε_r = 39.345; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:21.6 Liquid Temperature:20.9

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 2600/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.43 W/kg

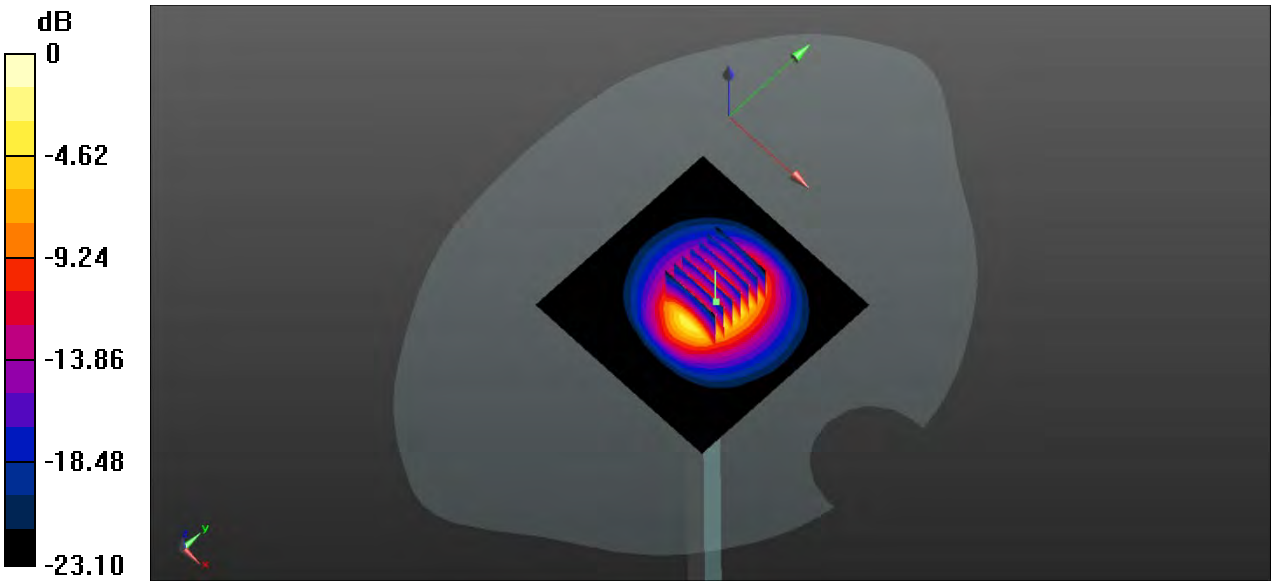
CW 2600/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.45 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 11.4 W/kg

SAR(1 g) = 5.42 W/kg; SAR(10 g) = 2.39 W/kg

Maximum value of SAR (measured) = 6.33 W/kg



0 dB = 6.33 W/kg

System Performance Check Data (2600MHz)

Date: 2021.08.03

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; σ = 1.996 S/m; ε_r = 39.796; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 2600/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.58 W/kg

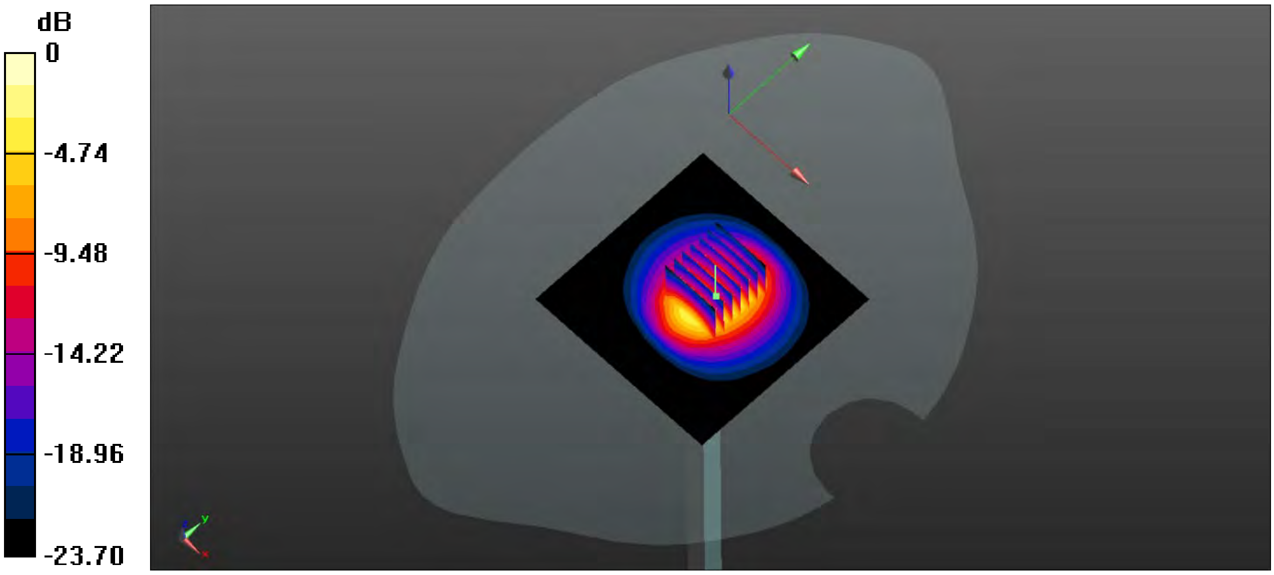
CW 2600/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.37 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 11.6 W/kg

SAR(1 g) = 5.57 W/kg; SAR(10 g) = 2.46 W/kg

Maximum value of SAR (measured) = 6.43 W/kg



0 dB = 6.43 W/kg

System Performance Check Data (2600MHz)

Date: 2021.08.05

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; σ = 1.952 S/m; ε_r = 39.274; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 2600/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.29 W/kg

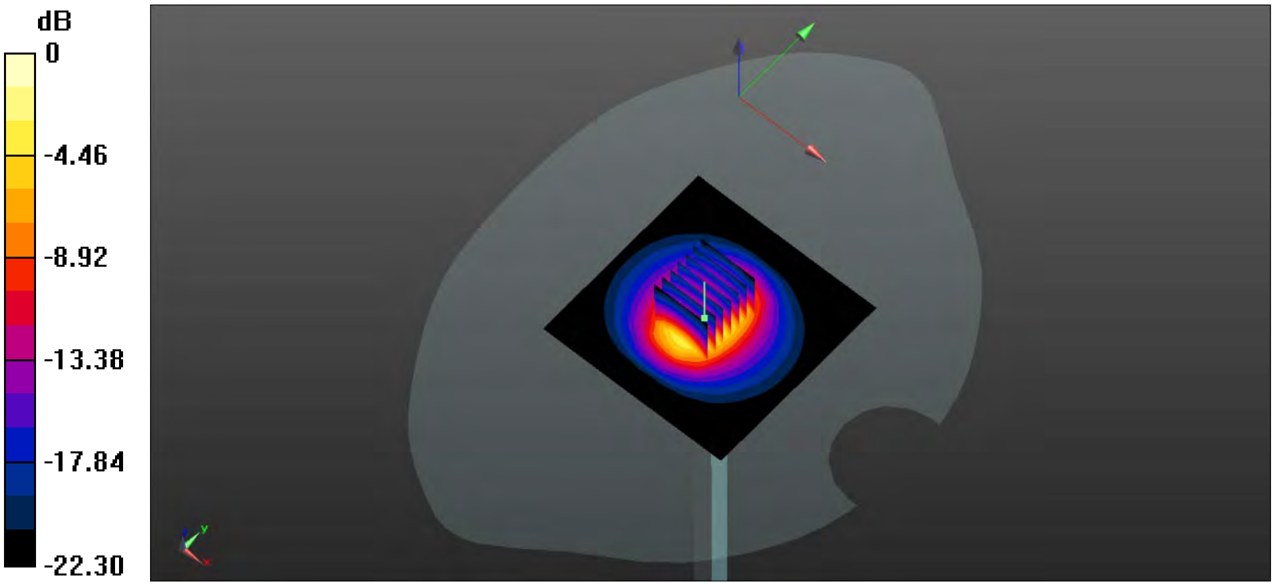
CW 2600/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.23 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 12.8 W/kg

SAR(1 g) = 5.51 W/kg; SAR(10 g) = 2.41 W/kg

Maximum value of SAR (measured) = 6.26 W/kg



0 dB = 6.26 W/kg

System Performance Check Data (2600MHz)

Date: 2021.08.05

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; σ = 1.961 S/m; ε_r = 39.136; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.1 Liquid Temperature:21.2

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 2600 /Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.33 W/kg

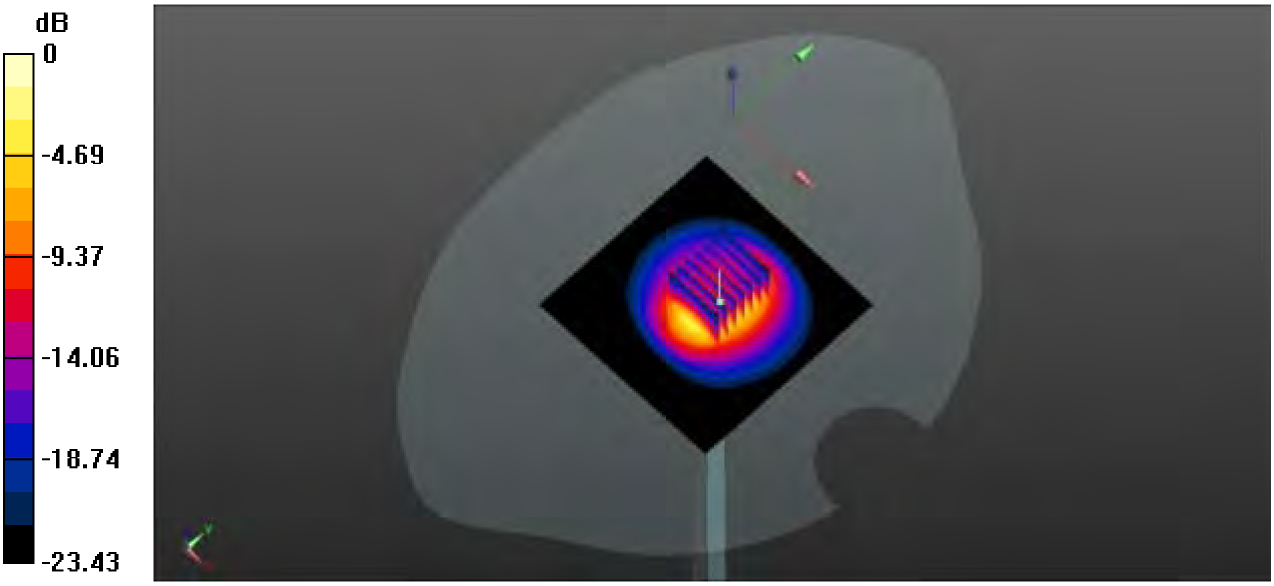
CW 2600 /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 44.65 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 12.3 W/kg

SAR(1 g) = 5.38 W/kg; SAR(10 g) = 2.36 W/kg

Maximum value of SAR (measured) = 6.34 W/kg



0 dB = 6.34 W/kg

System Performance Check Data (2600MHz)

Date: 2021.08.06

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; σ = 1.926 S/m; ε_r = 38.211; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.2

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 2600 /Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.41 W/kg

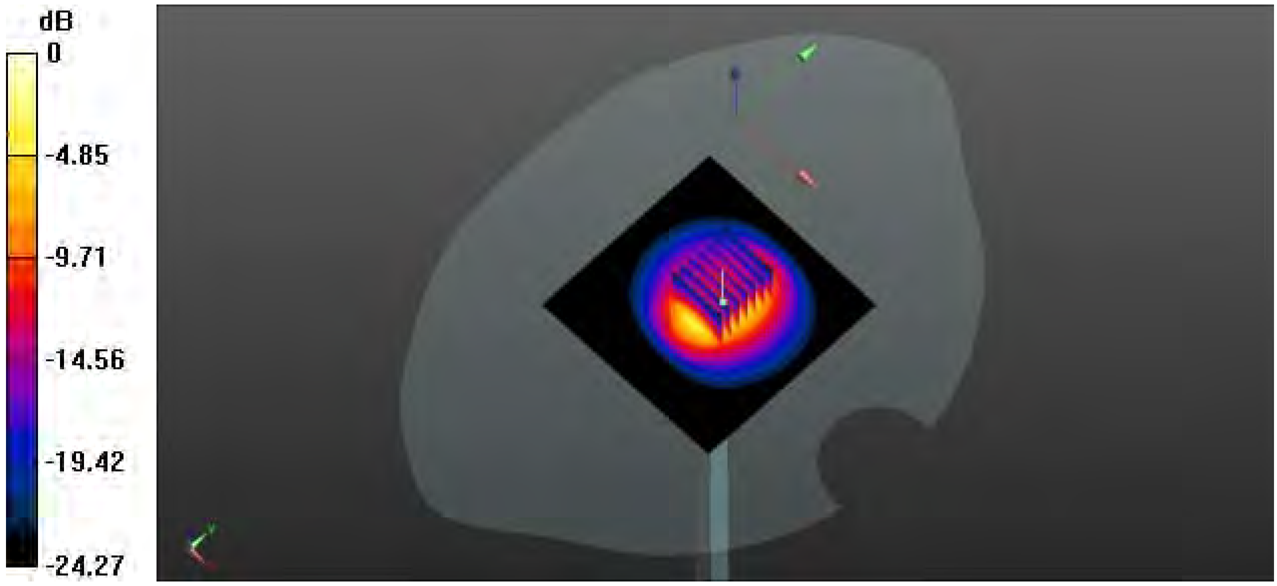
CW 2600 /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.64 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 5.52 W/kg; SAR(10 g) = 2.38 W/kg

Maximum value of SAR (measured) = 6.36 W/kg



0 dB = 6.36 W/kg

System Performance Check Data (5250MHz)

Date: 2021.08.07

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5250 MHz; σ = 4.569 S/m; ε_r = 36.774; ρ = 1000 kg/m^3

Phantom section: Flat Section

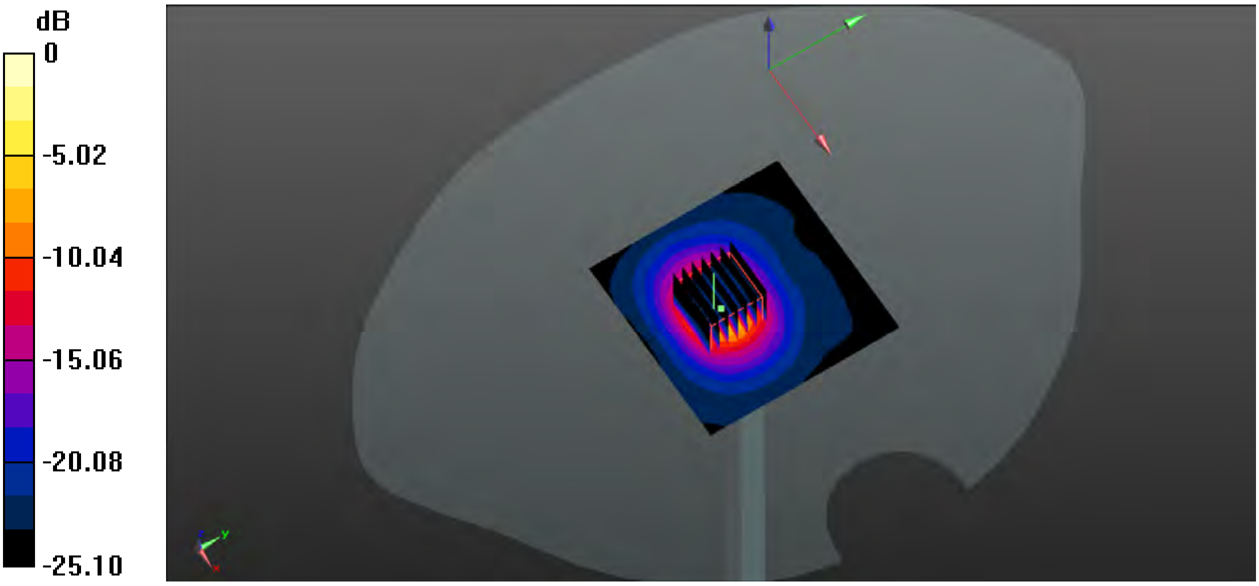
Ambient Temperature:22.6 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.46, 5.46, 5.46); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 5250/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 7.86 W/kg

CW 5250/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 24.72 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 33.3 W/kg
SAR(1 g) = 7.33 W/kg; SAR(10 g) = 2.07 W/kg
Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg

System Performance Check Data (5600MHz)

Date: 2021.08.09

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5600 MHz; σ = 5.174 S/m; ε_r = 35.556; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.89, 4.89, 4.89); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 5600/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 9.15 W/kg

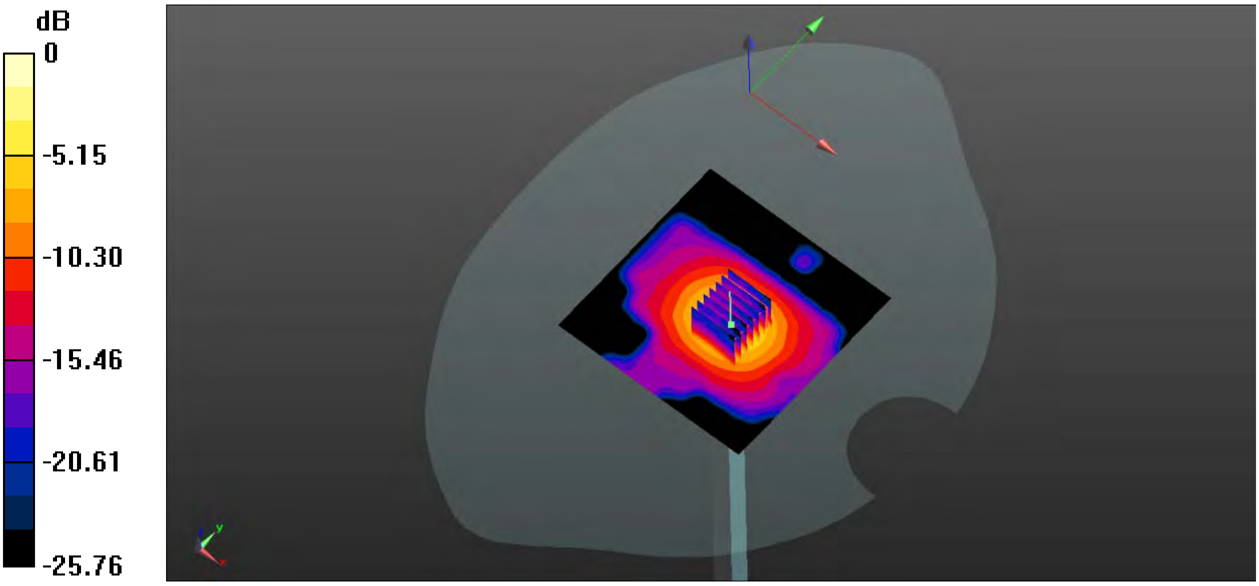
CW 5600/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 22.83 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 38.21 W/kg

SAR(1 g) = 8.46 W/kg; SAR(10 g) = 2.41 W/kg

Maximum value of SAR (measured) = 16.9 W/kg



0 dB = 16.9 W/kg

System Performance Check Data (5750MHz)

Date: 2021.08.10

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5750 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5750 MHz; σ = 5.221 S/m; ε_r = 35.116; ρ = 1000 kg/m^3

Phantom section: Flat Section

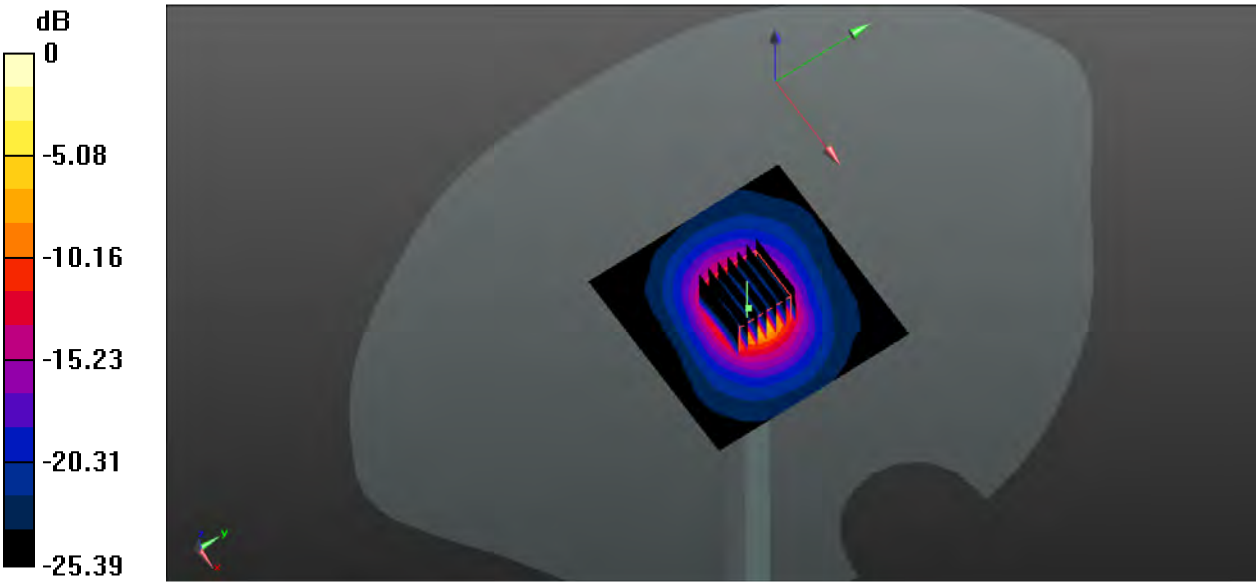
Ambient Temperature:22.6 Liquid Temperature:21.2

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.96, 4.96, 4.96); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

CW 5750/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.94 W/kg

CW 5750/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 40.09 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 36.7 W/kg
SAR(1 g) = 8.25 W/kg; SAR(10 g) = 2.34 W/kg
Maximum value of SAR (measured) = 16.2 W/kg



0 dB = 16.2 W/kg

ANNEX C   TEST DATA

1-Right Head with Check on High Channel in GSM850 Mode With Antenna 13

Date: 2021.07.23

Communication System Band: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3

Medium parameters used: f = 848.8 MHz; σ = 0.909 S/m; ε_r = 41.474; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.03 W/kg

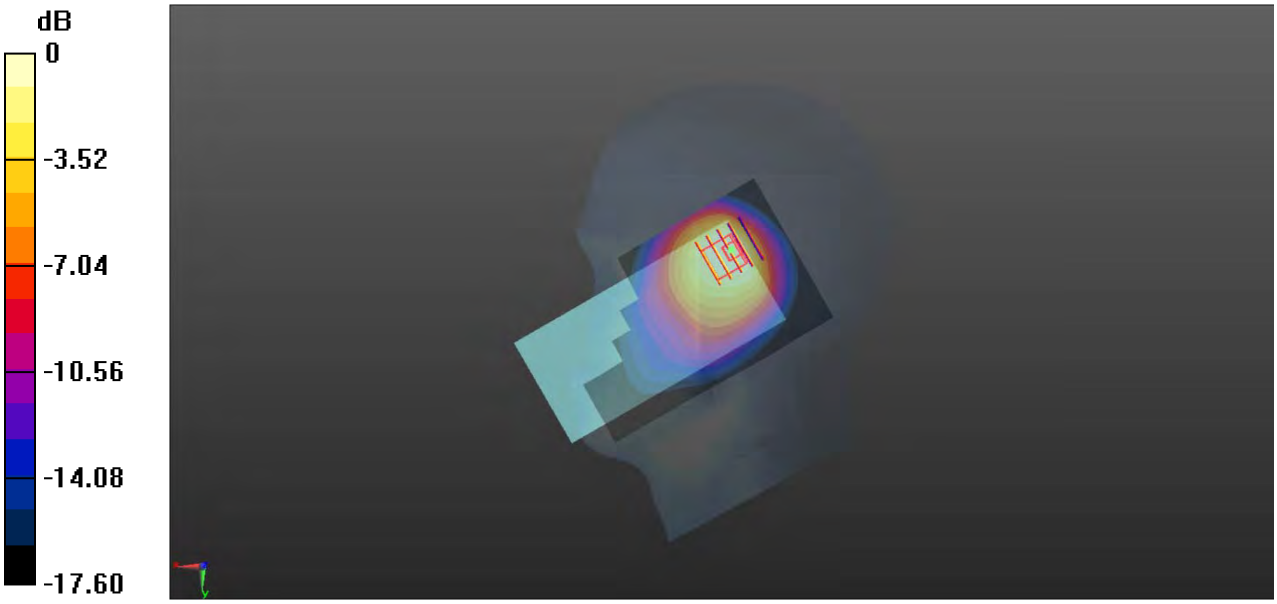
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.41 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.768 W/kg; SAR(10 g) = 0.483 W/kg

Maximum value of SAR (measured) = 0.818 W/kg



0 dB = 0.818 W/kg

2-Body Plane with Back Side 15mm on High Channel in GPRS850 2Slots mode With Antenna 31

Date: 2021.07.23

Communication System Band: GPRS850; Frequency: 848.8 MHz;Duty Cycle: 1:4.1

Medium parameters used: f = 848.8 MHz; $\sigma = 0.909$ S/m; $\varepsilon_r = 41.474$; $\rho = 1000$ kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.399 W/kg

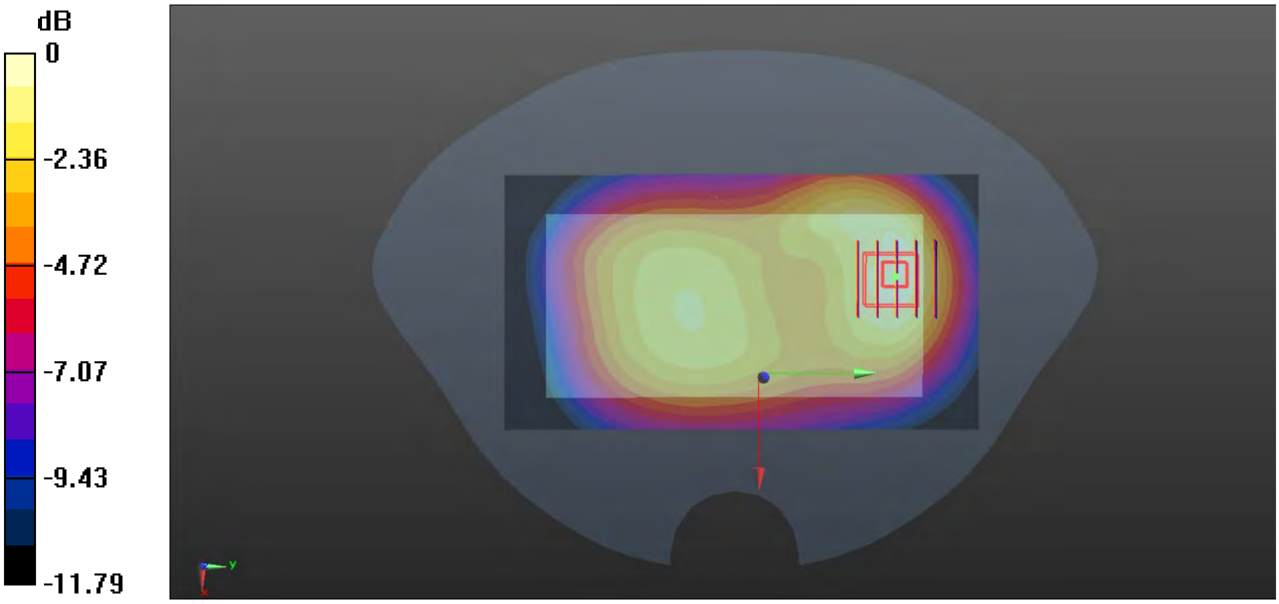
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.35 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.572 W/kg

SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.242 W/kg

Maximum value of SAR (measured) = 0.403 W/kg



0 dB = 0.403 W/kg

3-Body Plane with Back Side 10mm on High Channel in GPRS850 2Slots mode With Antenna 41

Date: 2021.07.23

Communication System Band: GPRS850; Frequency: 848.8 MHz;Duty Cycle: 1:4.1

Medium parameters used: f = 848.8 MHz; σ = 0.909 S/m; ε_r = 41.474; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.736 W/kg

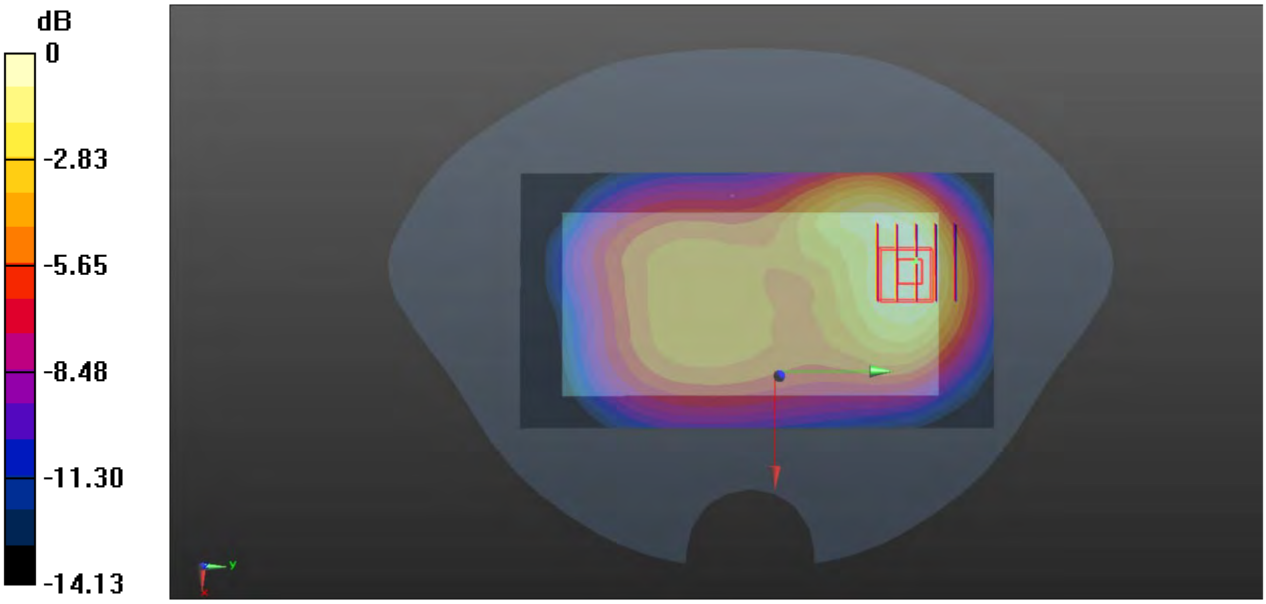
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.07 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.613 W/kg; SAR(10 g) = 0.327 W/kg

Maximum value of SAR (measured) = 0.729 W/kg



0 dB = 0.729 W/kg

4-Right Head with Tilt on Low Channel in GSM1900 mode With Antenna 13

Date: 2021.07.28

Communication System Band: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3

Medium parameters used: f = 1850.2 MHz; σ = 1.368 S/m; ε_r = 41.334; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch512/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.600 W/kg

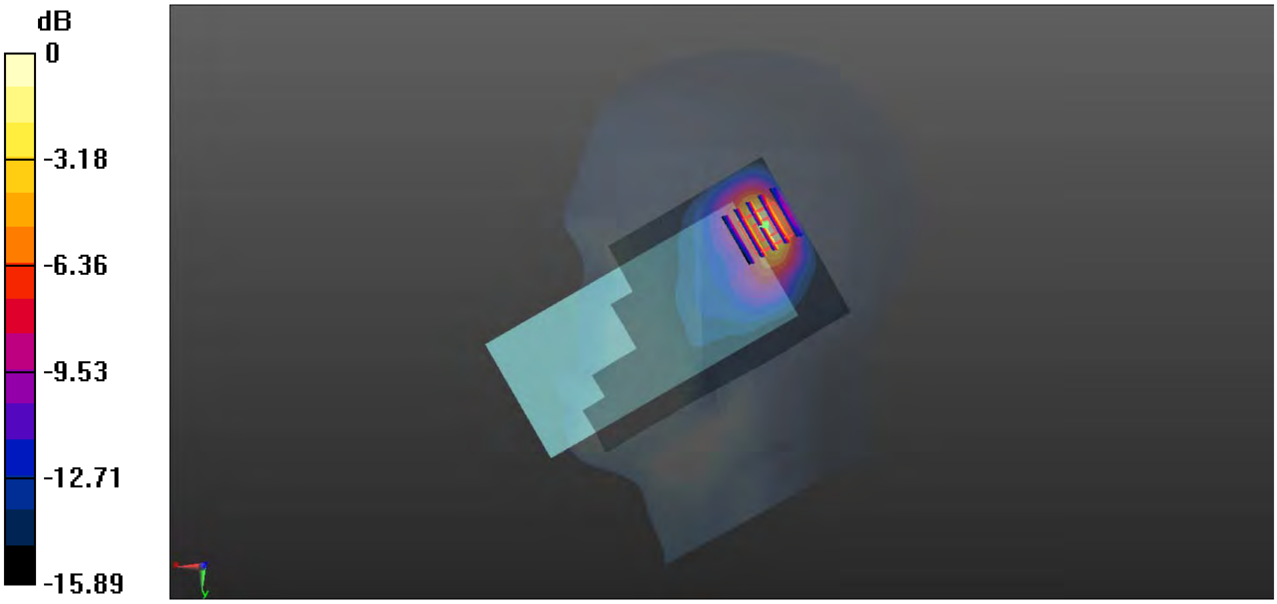
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.79 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.257 W/kg

Maximum value of SAR (measured) = 0.645 W/kg



0 dB = 0.645 W/kg

5-Body Plane with Back 15mm on Middle Channel in GPRS1900 2Slots Mode With Antenna 13

Date: 2021.07.28

Communication System Band: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:4.1

Medium parameters used: f = 1880 MHz; σ = 1.383 S/m; ε_r = 40.989; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch661/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.567 W/kg

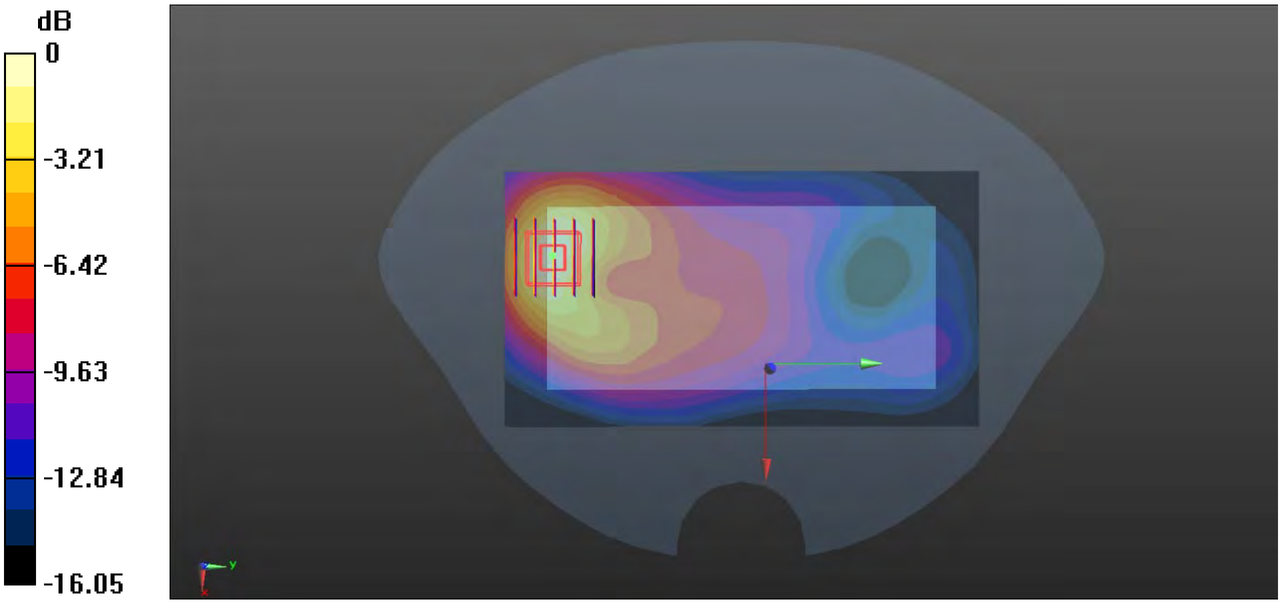
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.184 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.871 W/kg

SAR(1 g) = 0.524 W/kg; SAR(10 g) = 0.299 W/kg

Maximum value of SAR (measured) = 0.582 W/kg



0 dB = 0.582 W/kg

6-Body Plane with Bottom 10mm on High Channel in GPRS1900 3Slots Mode With Antenna 31

Date: 2021.07.28

Communication System Band: GPRS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:2.77

Medium parameters used: f = 1909.8 MHz; σ = 1.411 S/m; ε_r = 40.343; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.623 W/kg

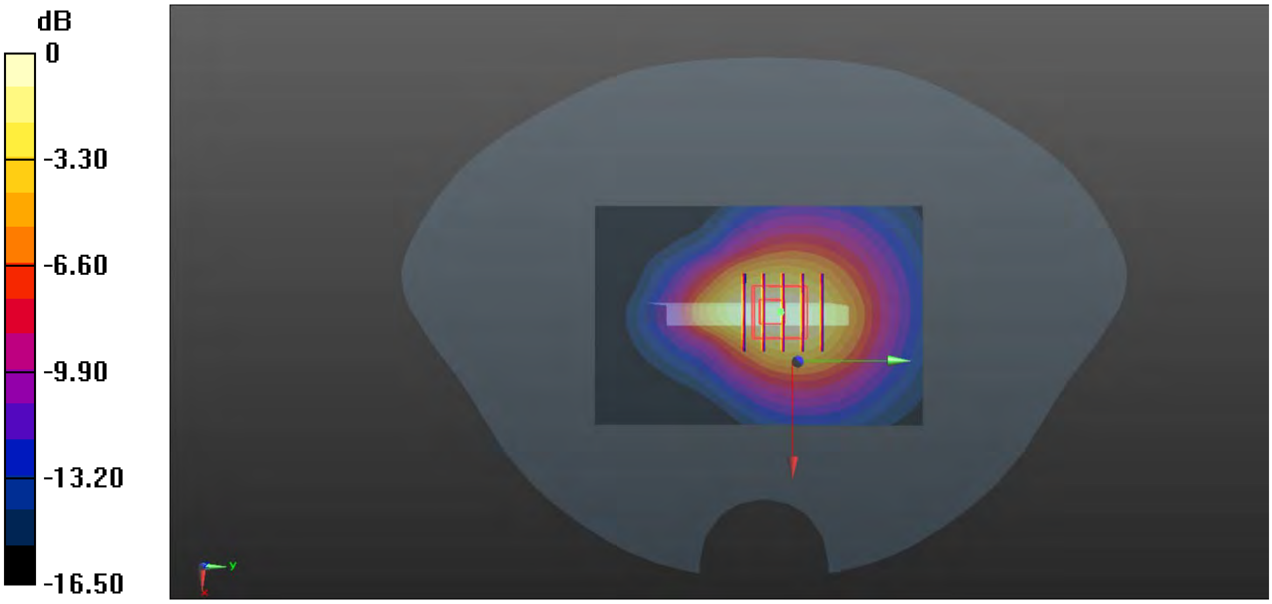
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.29 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.902 W/kg

SAR(1 g) = 0.576 W/kg; SAR(10 g) = 0.323 W/kg

Maximum value of SAR (measured) = 0.603 W/kg



0 dB = 0.603 W/kg

7-Body Plane with Top 0mm on Low Channel in GPRS1900 3Slots Mode With Antenna 13

Date: 2021.07.28

Communication System Band: GPRS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:2.77

Medium parameters used: f = 1850.2 MHz; σ = 1.368 S/m; ε_r = 41.334; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch512/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.77 W/kg

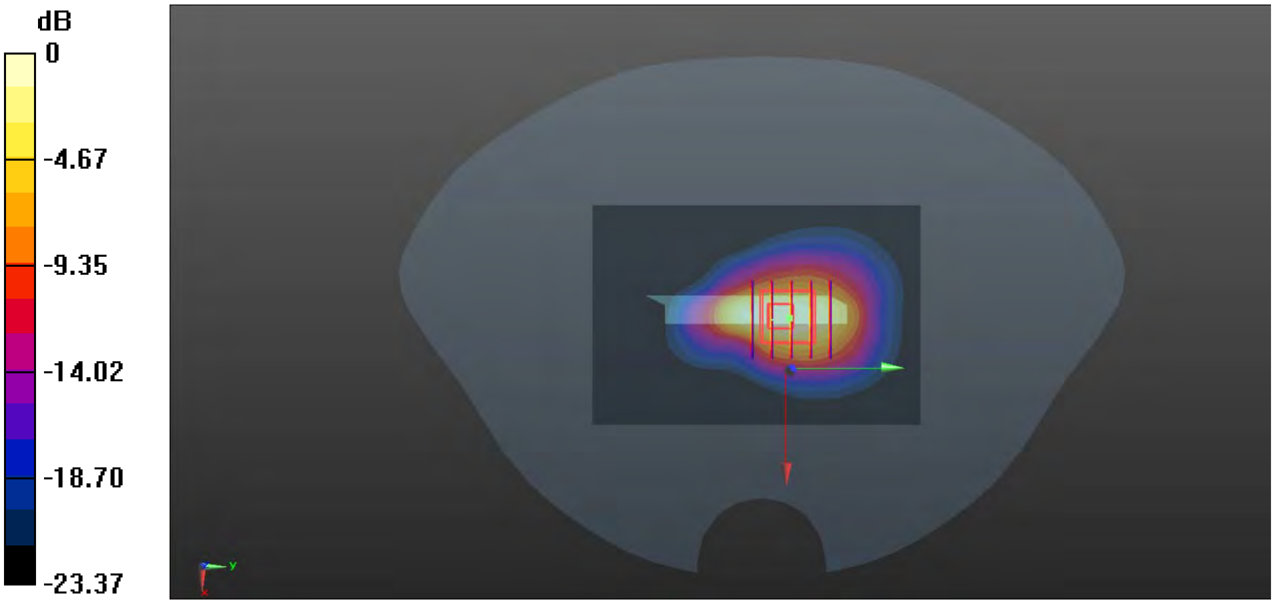
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.28 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 5.18 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 0.964 W/kg

Maximum value of SAR (measured) = 2.99 W/kg



0 dB = 2.99 W/kg

8-Body Plane with Front 8mm on Low Channel in GPRS1900 2Slots Mode With Antenna 13

Date: 2021.07.28

Communication System Band: GPRS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4.1

Medium parameters used: f = 1850.2 MHz; σ = 1.368 S/m; ε_r = 41.334; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch512/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.33 W/kg

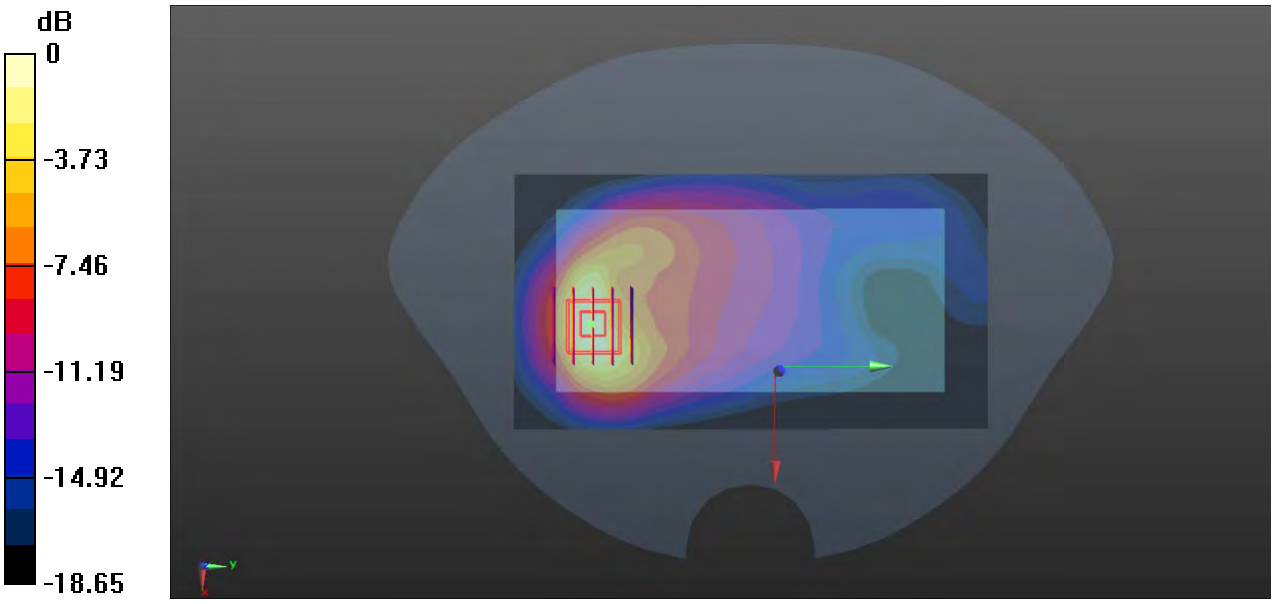
Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.931 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.618 W/kg

Maximum value of SAR (measured) = 1.34 W/kg



0 dB = 1.34 W/kg

9-Right Head with Tilt on Low Channel in WCDMA Band2 mode With Antenna 13

Date: 2021.07.27

Communication System Band: II; Frequency: 1852.4 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.355 S/m; ε_r = 41.123; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch9262/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.740 W/kg

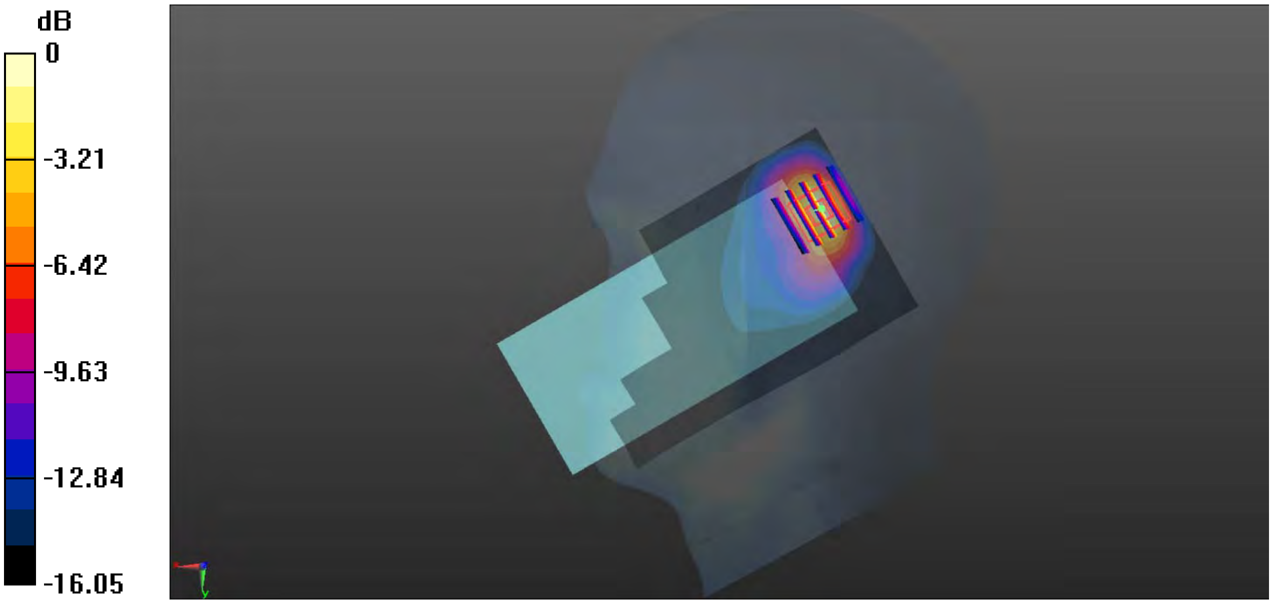
Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.20 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.698 W/kg; SAR(10 g) = 0.319 W/kg

Maximum value of SAR (measured) = 0.795 W/kg



0 dB = 0.795 W/kg

10-Body Plane with Back 15mm on High Channel in WCDMA Band2 Mode With Antenna 13

Date: 2021.07.27

Communication System Band: II; Frequency: 1907.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1907.6 MHz; σ = 1.411 S/m; ε_r = 40.336; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.860 W/kg

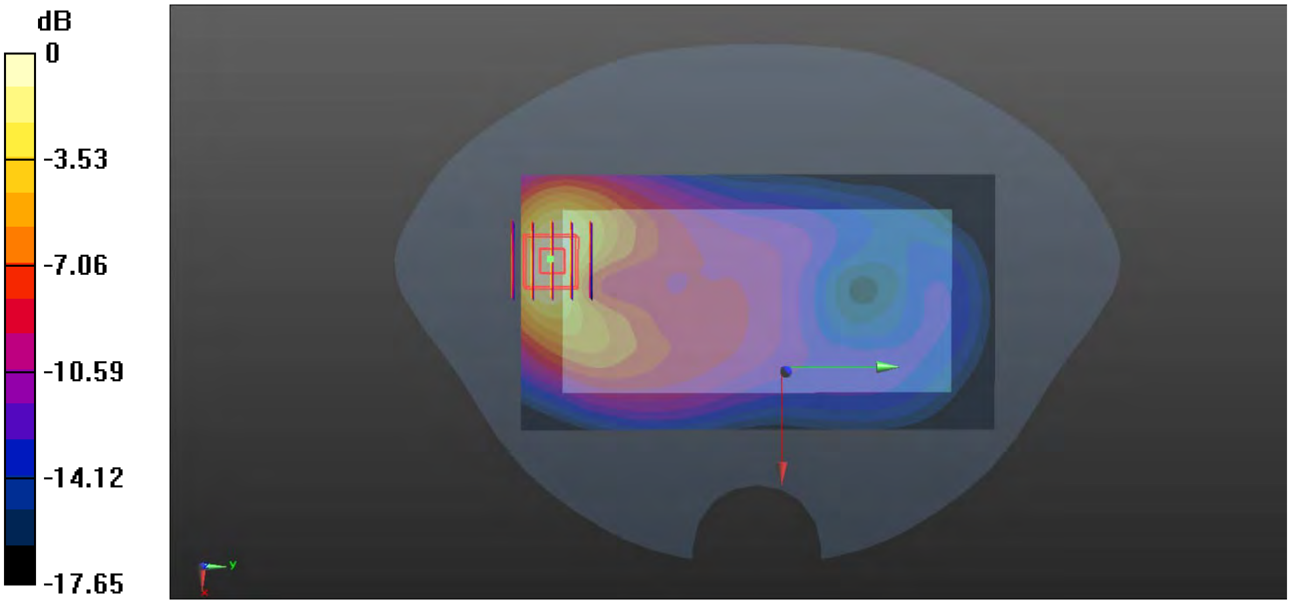
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.040 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.783 W/kg; SAR(10 g) = 0.434 W/kg

Maximum value of SAR (measured) = 0.868 W/kg



0 dB = 0.868 W/kg

11-Body Plane with Top Edge 10mm on High Channel in WCDMA Band2 Mode With Antenna 13

Date: 2021.07.27

Communication System Band:II; Frequency: 1907.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1907.6 MHz; σ = 1.411 S/m; ε_r = 40.336; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.783 W/kg

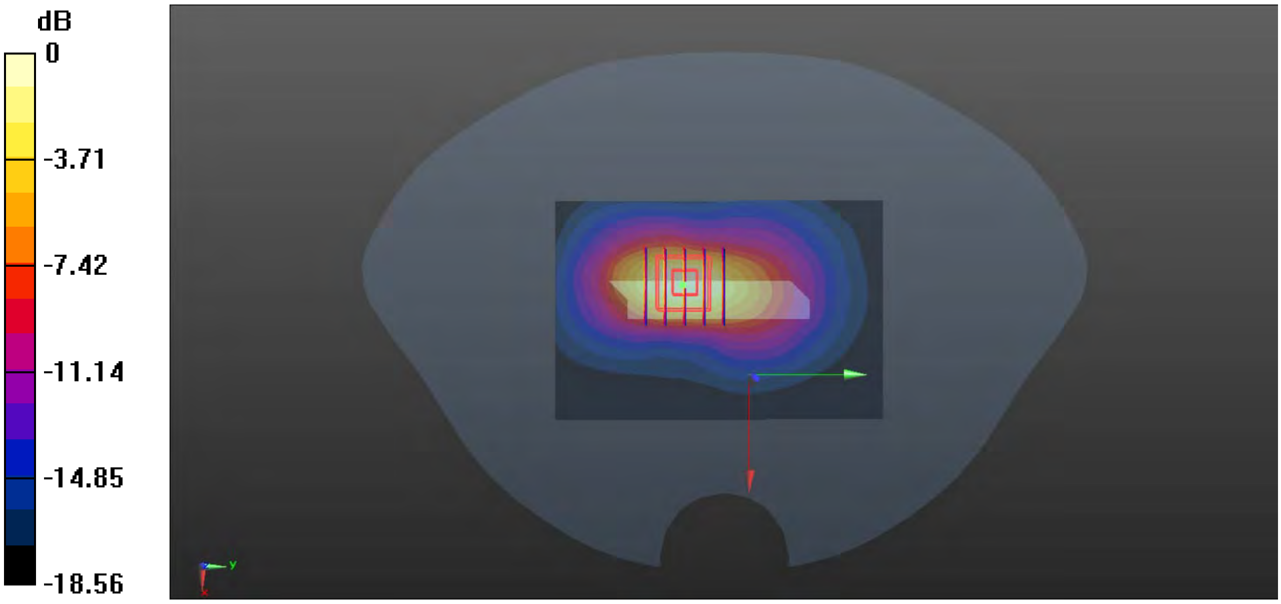
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.87 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.677 W/kg; SAR(10 g) = 0.310 W/kg

Maximum value of SAR (measured) = 0.755 W/kg



0 dB = 0.755 W/kg

12-Body Plane with Bottom Edge 0mm on High Channel in WCDMA Band2 Mode With Antenna 31

Date: 2021.07.27

Communication System Band: II; Frequency: 1907.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1907.6 MHz; σ = 1.411 S/m; ε_r = 40.336; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.89 W/kg

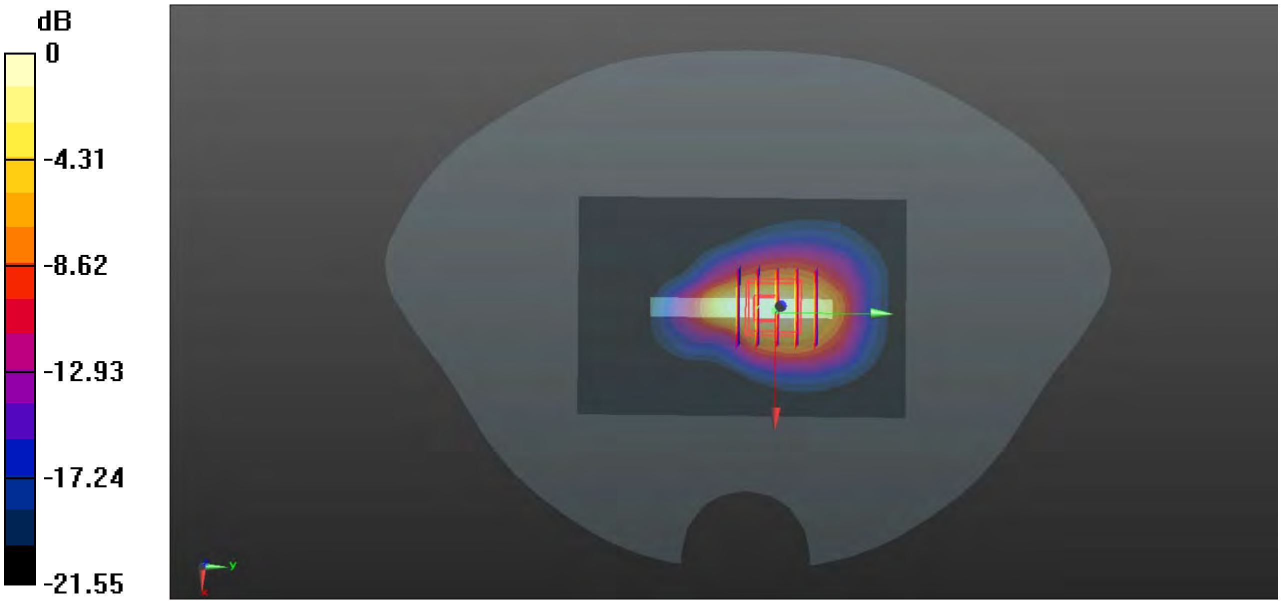
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.31 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 7.66 W/kg

SAR(1 g) = 3.82 W/kg; SAR(10 g) = 1.86 W/kg

Maximum value of SAR (measured) = 4.39 W/kg



0 dB = 4.39 W/kg

13-Body Plane with Top Edge 13mm on High Channel in WCDMA Band2 Mode With Antenna 13

Date: 2021.07.27

Communication System Band: II; Frequency: 1907.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1907.6 MHz; σ = 1.411 S/m; ε_r = 40.336; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.35 W/kg

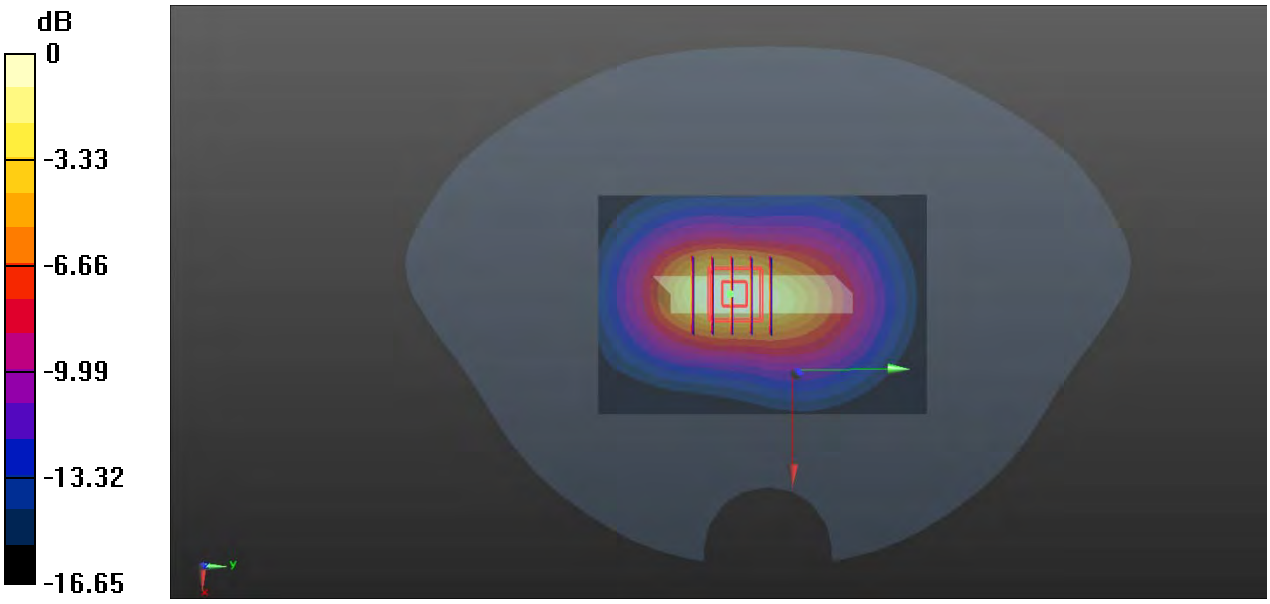
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.31 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.648 W/kg

Maximum value of SAR (measured) = 1.32 W/kg



0 dB = 1.32 W/kg

14-Right Head with Tilt on High Channel in WCDMA Band4 mode With Antenna 13

Date: 2021.07.26

Communication System Band: IV; Frequency: 1752.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1752.6 MHz; σ = 1.389 S/m; ε_r = 40.066; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:21.8 Liquid Temperature:20.9

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.724 W/kg

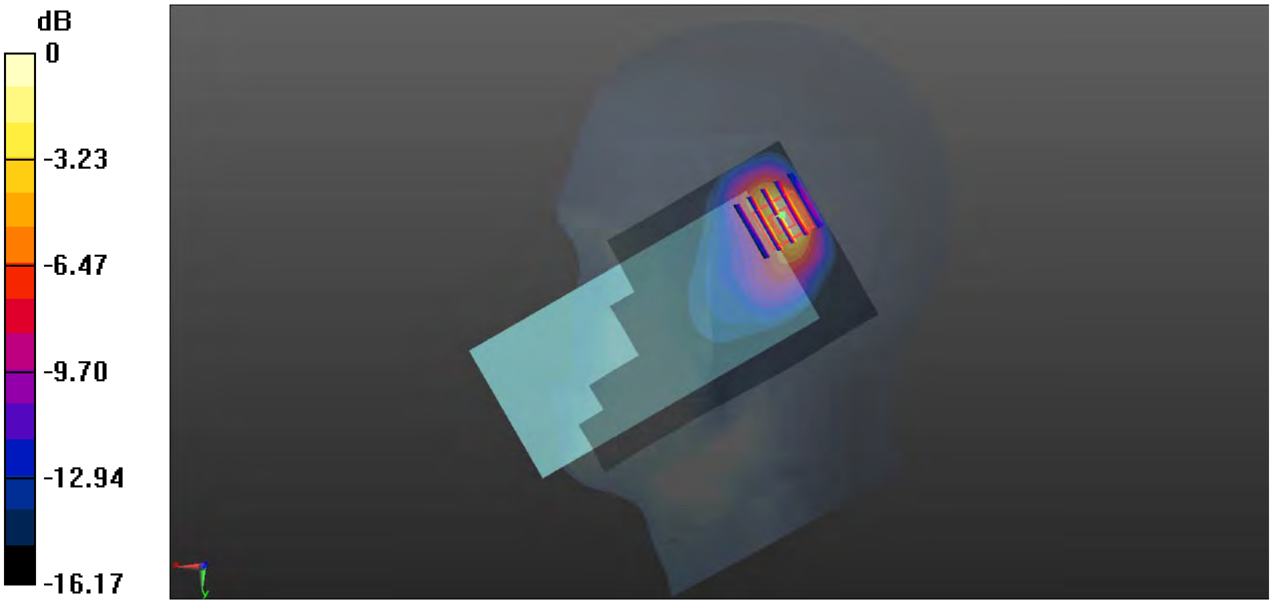
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.96 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.711 W/kg; SAR(10 g) = 0.324 W/kg

Maximum value of SAR (measured) = 0.797 W/kg



0 dB = 0.797 W/kg

15-Body Plane with Back 15mm on High Channel in WCDMA Band4 Mode With Antenna 13

Date: 2021.07.31

Communication System Band: IV; Frequency: 1752.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1752.6 MHz; σ = 1.371 S/m; ε_r = 40.485; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:21.6 Liquid Temperature:20.8

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.576 W/kg

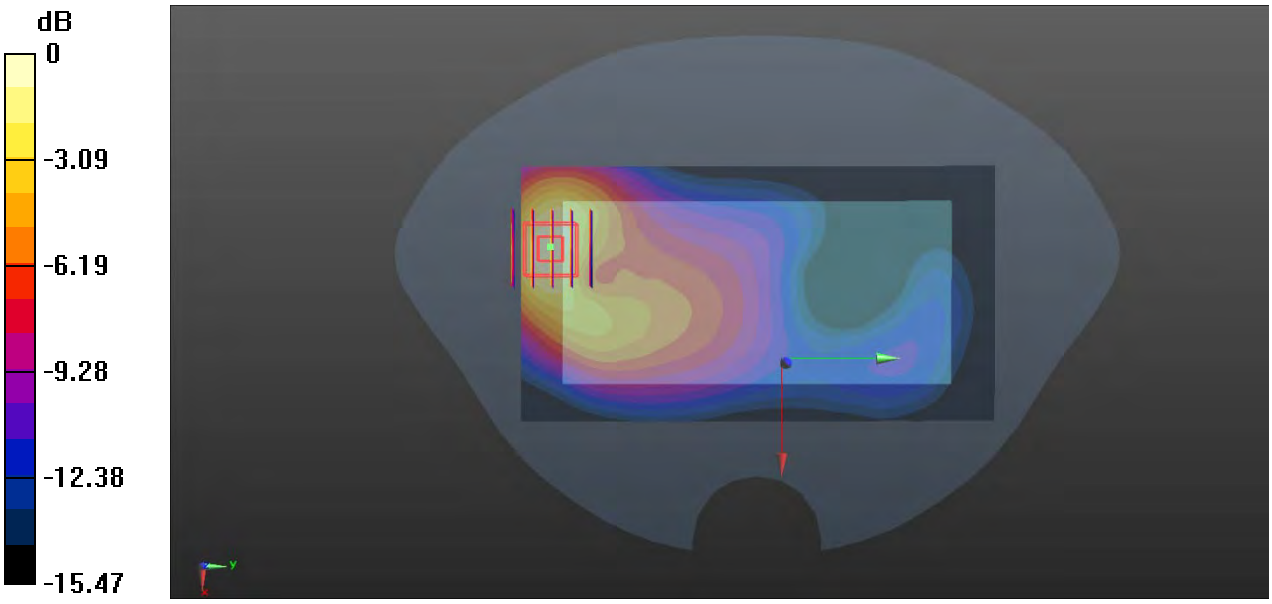
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.025 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.832 W/kg

SAR(1 g) = 0.524 W/kg; SAR(10 g) = 0.306 W/kg

Maximum value of SAR (measured) = 0.580 W/kg



0 dB = 0.580 W/kg

16-Body Plane with Bottom Edge 10mm on High Channel in WCDMA Band4 Mode With Antenna 31

Date: 2021.07.31

Communication System Band: IV; Frequency: 1752.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1752.6 MHz; σ = 1.371 S/m; ε_r = 40.485; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:21.6 Liquid Temperature:20.8

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.697 W/kg

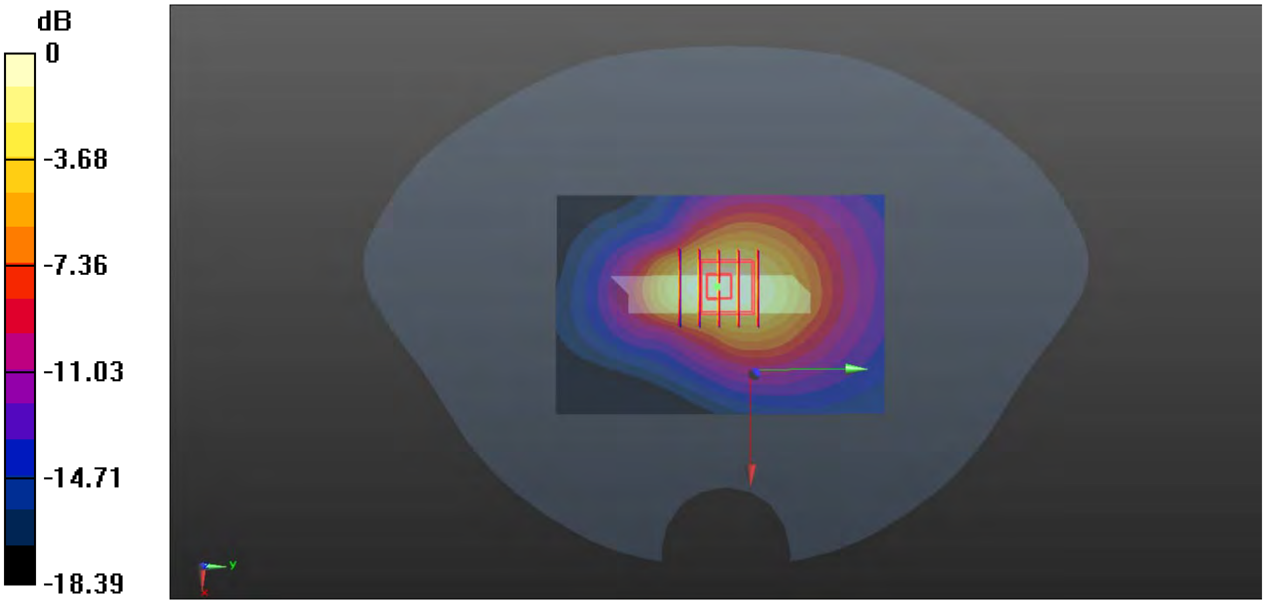
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.51 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.824 W/kg

SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.306 W/kg

Maximum value of SAR (measured) = 0.656 W/kg



0 dB = 0.656 W/kg

17-Body Plane with Top Edge 0mm on High Channel in WCDMA Band4 Mode With Antenna 13

Date: 2021.07.31

Communication System Band: IV; Frequency: 1752.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1752.6 MHz; σ = 1.371 S/m; ε_r = 40.485; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:21.6 Liquid Temperature:20.8

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.12 W/kg

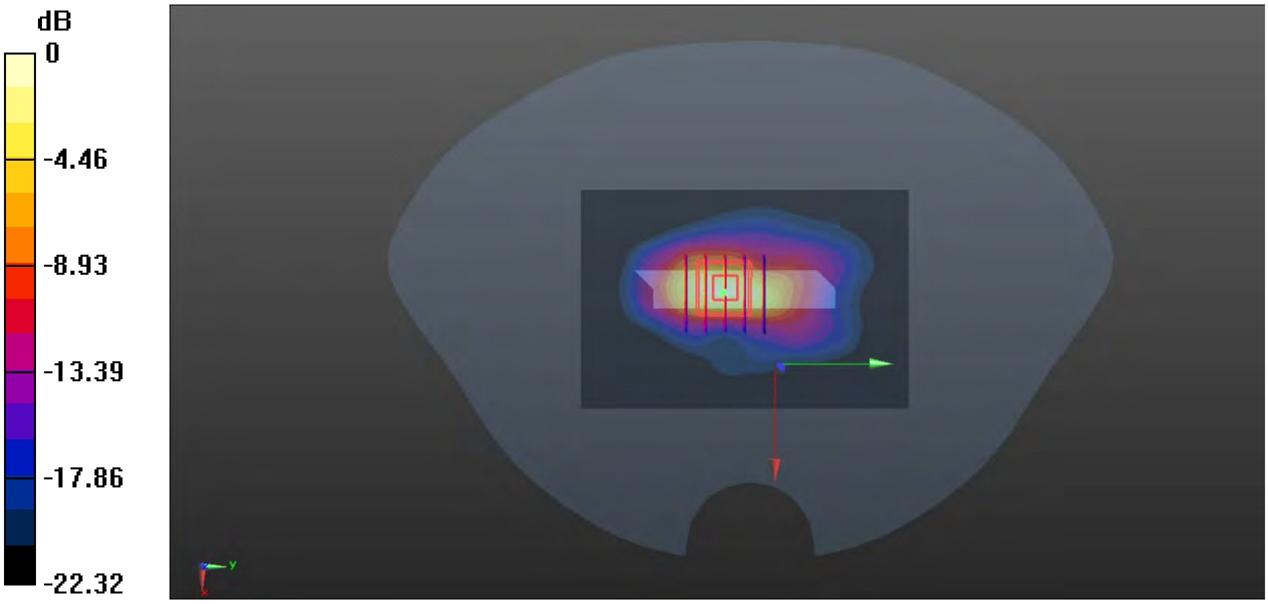
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 42.82 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 7.32 W/kg

SAR(1 g) = 3.31 W/kg; SAR(10 g) = 1.35 W/kg

Maximum value of SAR (measured) = 4.00 W/kg



0 dB = 4.00 W/kg

18-Body Plane with Front 8mm on High Channel in WCDMA Band4 Mode With Antenna 13

Date: 2021.07.31

Communication System Band: IV; Frequency: 1752.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1752.6 MHz; σ = 1.371 S/m; ε_r = 40.485; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:21.6 Liquid Temperature:20.8

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.80 W/kg

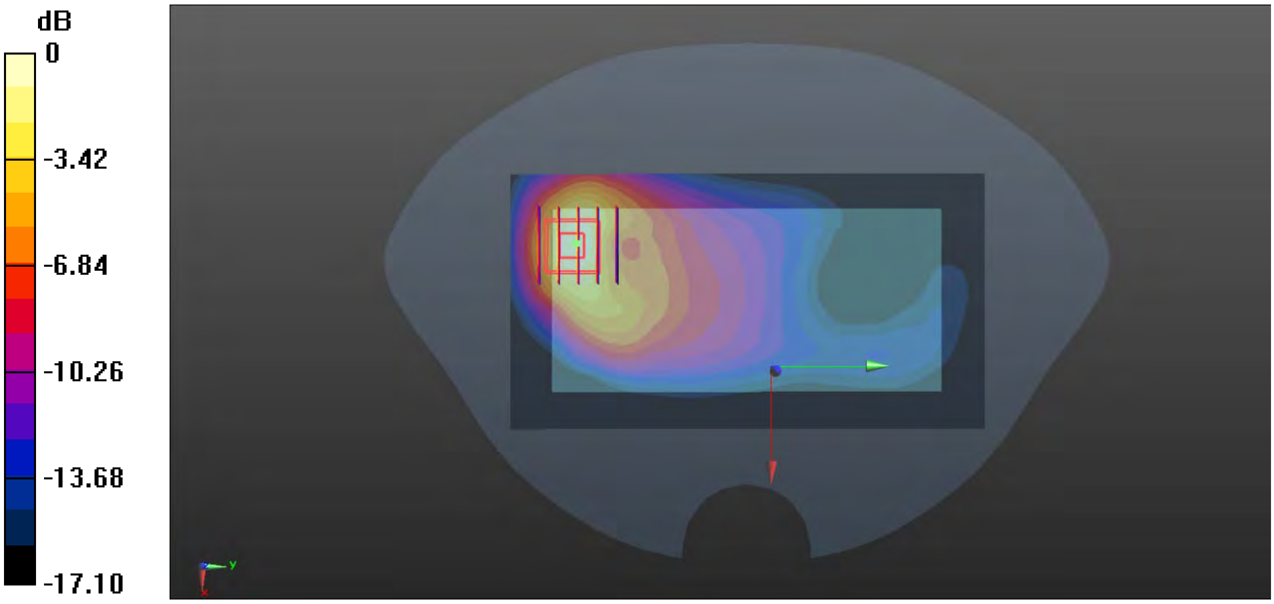
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.75 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.07 W/kg

SAR(1 g) = 1.71 W/kg; SAR(10 g) = 0.790 W/kg

Maximum value of SAR (measured) = 1.95 W/kg



0 dB = 1.95 W/kg

19-Right Head with Cheek on High Channel in WCDMA Band5 mode With Antenna 13

Date: 2021.07.23

Communication System Band: V; Frequency: 846.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 846.6 MHz; σ = 0.906 S/m; ε_r = 41.552; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.613 W/kg

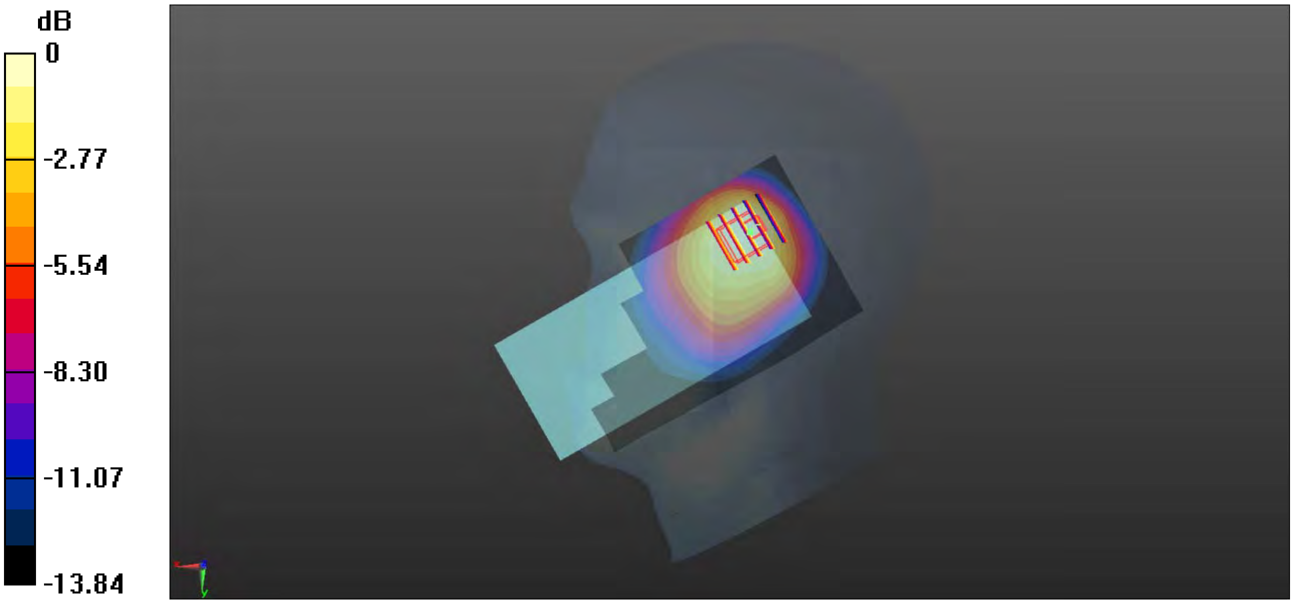
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.51 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.905 W/kg

SAR(1 g) = 0.573 W/kg; SAR(10 g) = 0.335 W/kg

Maximum value of SAR (measured) = 0.599 W/kg



0 dB = 0.599 W/kg

20-Body Plane with Back Side 15mm on High Channel in WCDMA Band5 mode With Antenna 41

Date: 2021.07.23

Communication System Band: V; Frequency: 846.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 846.6 MHz; σ = 0.906 S/m; ε_r = 41.552; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.195 W/kg

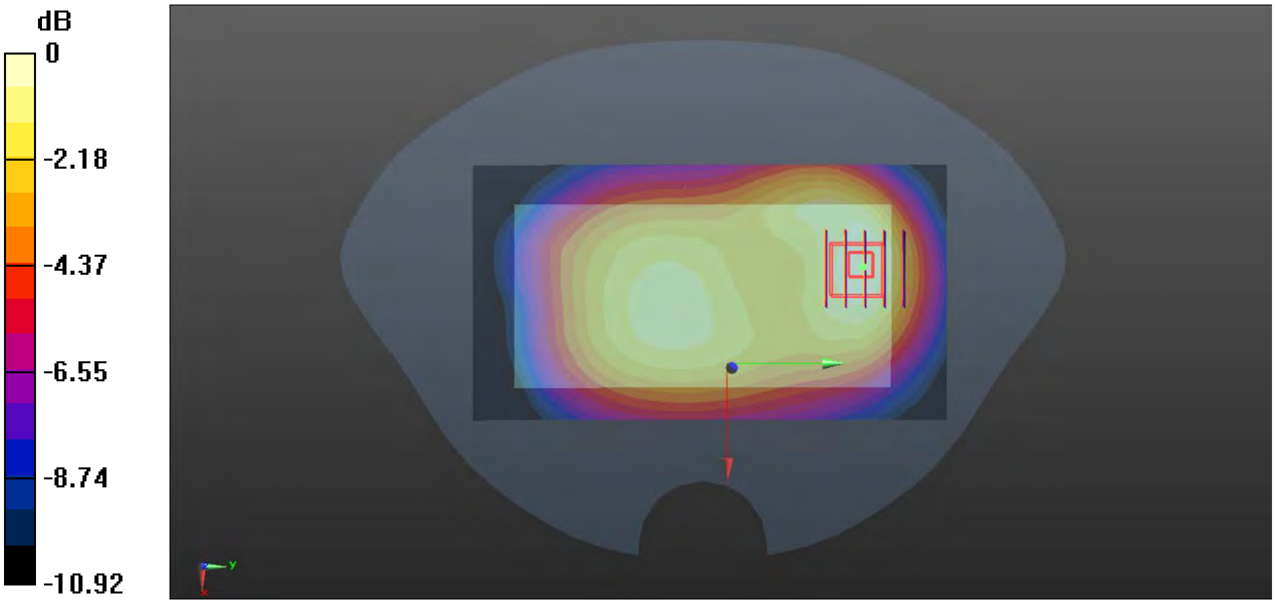
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.49 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.273 W/kg

SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.120 W/kg

Maximum value of SAR (measured) = 0.195 W/kg



0 dB = 0.195 W/kg

21-Body Plane with Back Side 10mm on High Channel in WCDMA Band5 mode With Antenna 41

Date: 2021.07.23

Communication System Band: V; Frequency: 846.6 MHz;Duty Cycle: 1:1

Medium parameters used: f = 846.6 MHz; σ = 0.906 S/m; ε_r = 41.552; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.410 W/kg

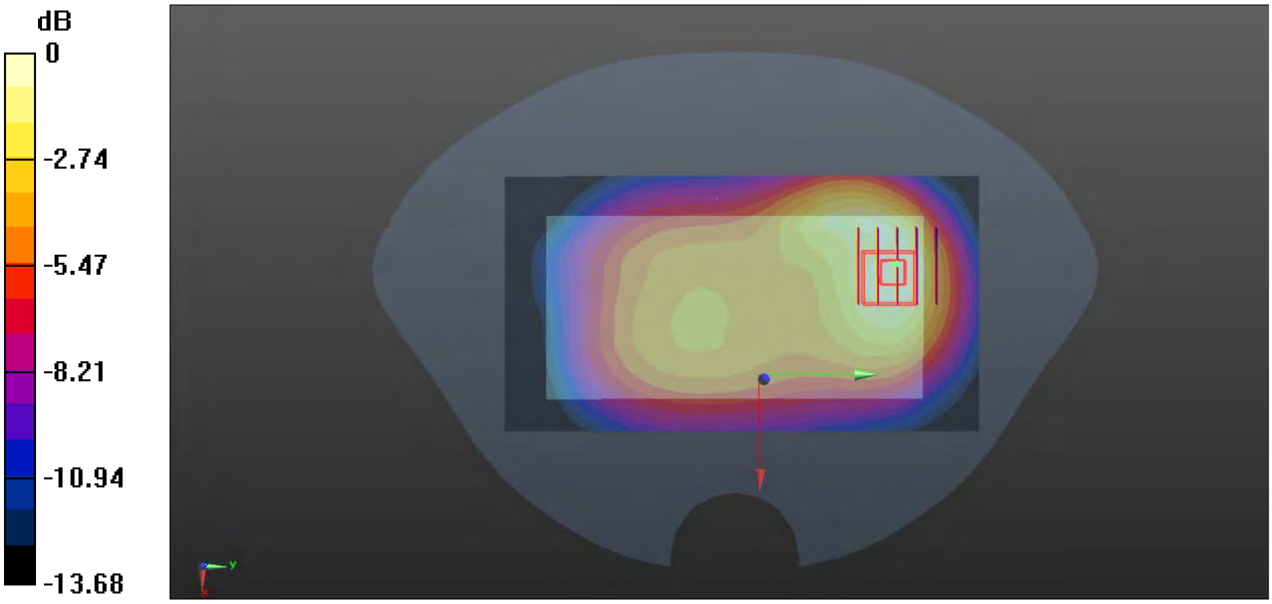
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.55 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.603 W/kg

SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.236 W/kg

Maximum value of SAR (measured) = 0.402 W/kg



0 dB = 0.402 W/kg

22-Right Head with Tilt on Low Channel in LTE Band2 mode With Antenna 13

Date: 2021.07.25

Communication System Band: Band 2; Frequency: 1860 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1860 MHz; σ = 1.425 S/m; ε_r = 39.898; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch18700/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.754 W/kg

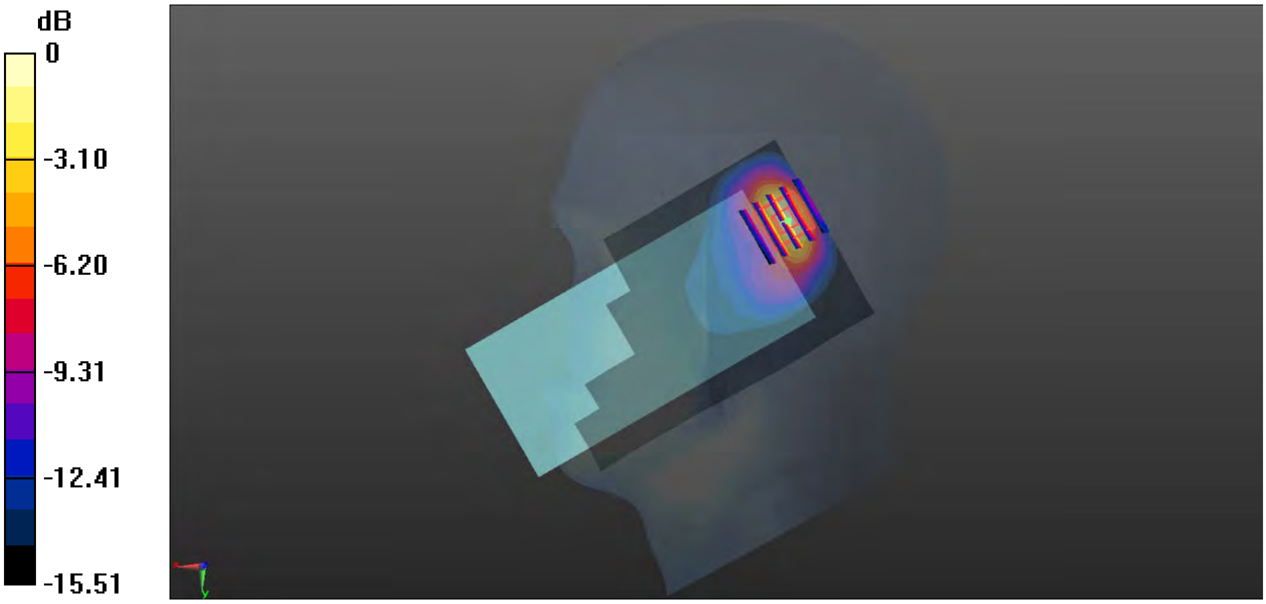
Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.050 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.667 W/kg; SAR(10 g) = 0.311 W/kg

Maximum value of SAR (measured) = 0.756 W/kg



0 dB = 0.756 W/kg

23-Body Plane with Back Side 15mm on High Channel in LTE Band2 Mode With Antenna 13

Date: 2021.07.24

Communication System Band: Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.425 S/m; ε_r = 40.113; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.9 Liquid Temperature:22.1

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch18900/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.698 W/kg

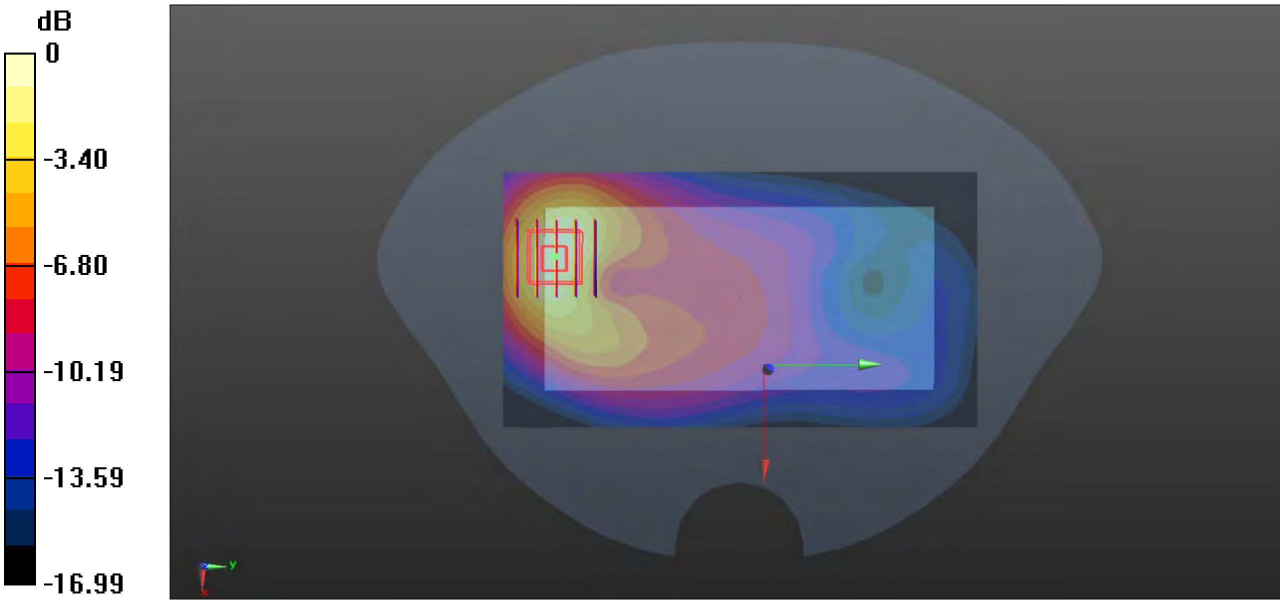
Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.543 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.641 W/kg; SAR(10 g) = 0.367 W/kg

Maximum value of SAR (measured) = 0.725 W/kg



0 dB = 0.725 W/kg

24-Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band2 Mode With Antenna 31

Date: 2021.07.24

Communication System Band: Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.425 S/m; ε_r = 40.113; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.9 Liquid Temperature:22.1

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch18900/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.618 W/kg

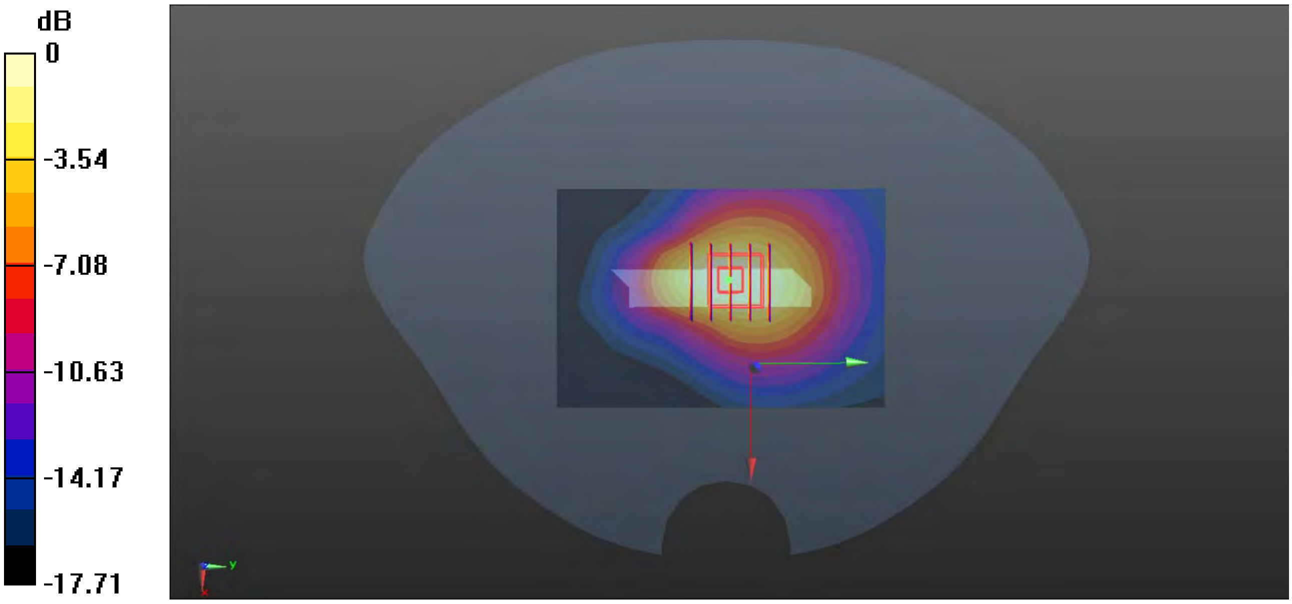
Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.17 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.888 W/kg

SAR(1 g) = 0.547 W/kg; SAR(10 g) = 0.318 W/kg

Maximum value of SAR (measured) = 0.603 W/kg



0 dB = 0.603 W/kg

25-Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band2 Mode With Antenna 31

Date: 2021.07.24

Communication System Band: Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.425 S/m; ε_r = 40.113; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.9 Liquid Temperature:22.1

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch18900/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.75 W/kg

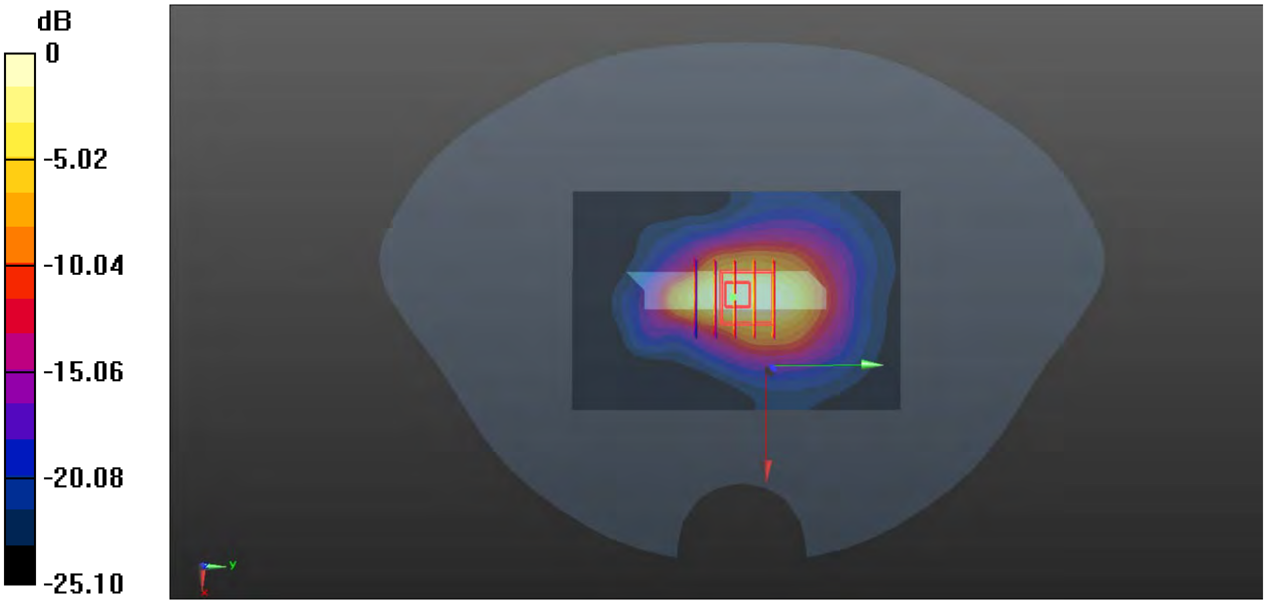
Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.63 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 7.87 W/kg

SAR(1 g) = 3.71 W/kg; SAR(10 g) = 1.81 W/kg

Maximum value of SAR (measured) = 4.37 W/kg



0 dB = 4.37 W/kg

26-Body Plane with Top Edge 13mm on Middle Channel in LTE Band2 Mode With Antenna 13

Date: 2021.07.24

Communication System Band: Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.425 S/m; ε_r = 40.113; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.9 Liquid Temperature:22.1

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.3, 8.3, 8.3); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch18900/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.42 W/kg

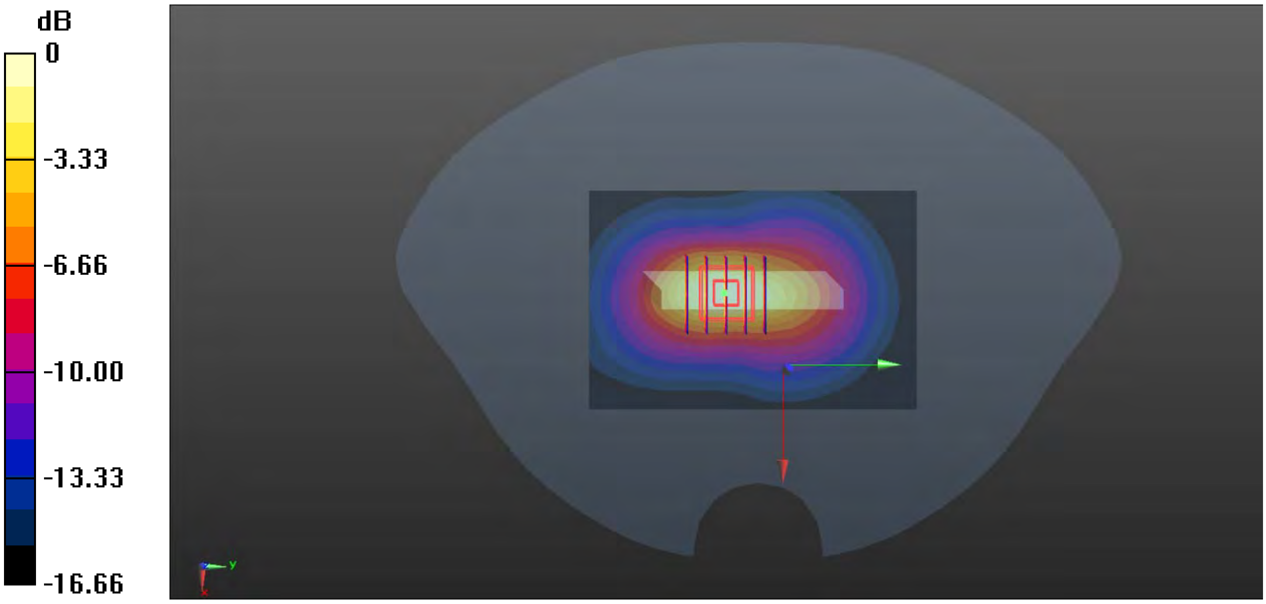
Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.39 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.08 W/kg

SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.660 W/kg

Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.38 W/kg

27-Right Head with Tilt on Middle Channel in LTE Band4 Mode With Antenna 13

Date: 2021.07.26

Communication System Band: Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1732.5 MHz; σ = 1.348 S/m; ε_r = 40.405; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:21.8 Liquid Temperature:20.9

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch20175/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.482 W/kg

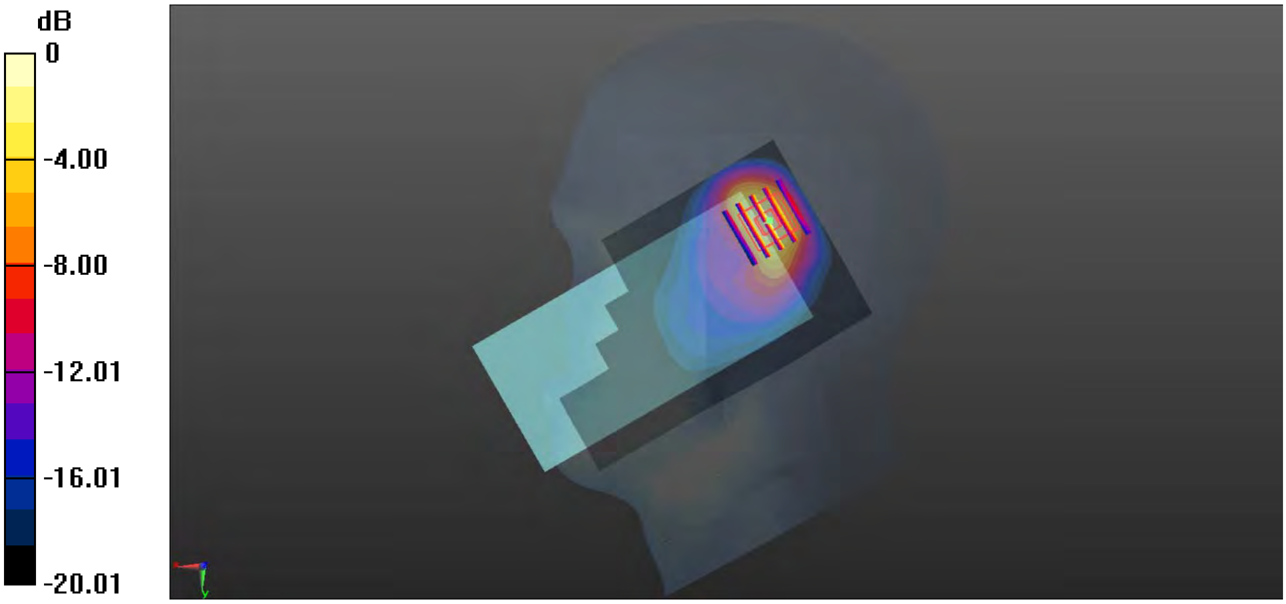
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.12 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.938 W/kg

SAR(1 g) = 0.470 W/kg; SAR(10 g) = 0.216 W/kg

Maximum value of SAR (measured) = 0.549 W/kg



0 dB = 0.549 W/kg

28-Body Plane with Back 15mm on Middle Channel in LTE Band4 Mode With Antenna 13

Date: 2021.07.29

Communication System Band: Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1732.5 MHz; σ = 1.377 S/m; ε_r = 39.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch20175/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.418 W/kg

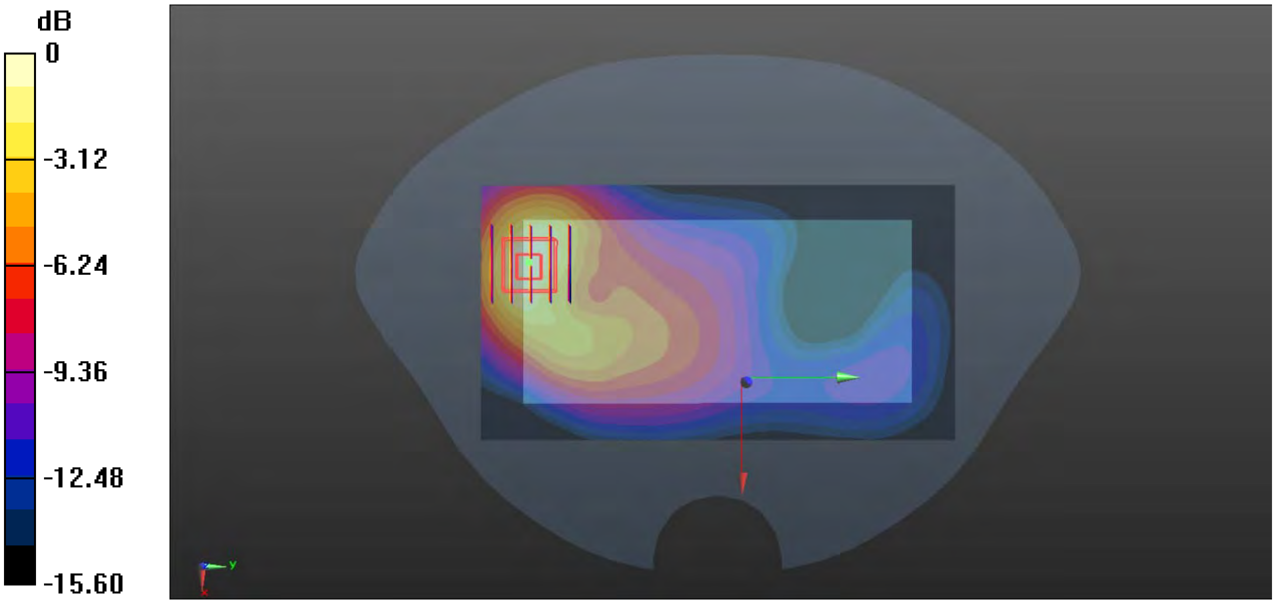
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.971 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.621 W/kg

SAR(1 g) = 0.391 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 0.430 W/kg



0 dB = 0.430 W/kg

29-Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band4 Mode With Antenna 31

Date: 2021.07.29

Communication System Band:Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1732.5 MHz; $\sigma = 1.377$ S/m; $\varepsilon_r = 39.858$; $\rho = 1000$ kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch20175/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.756 W/kg

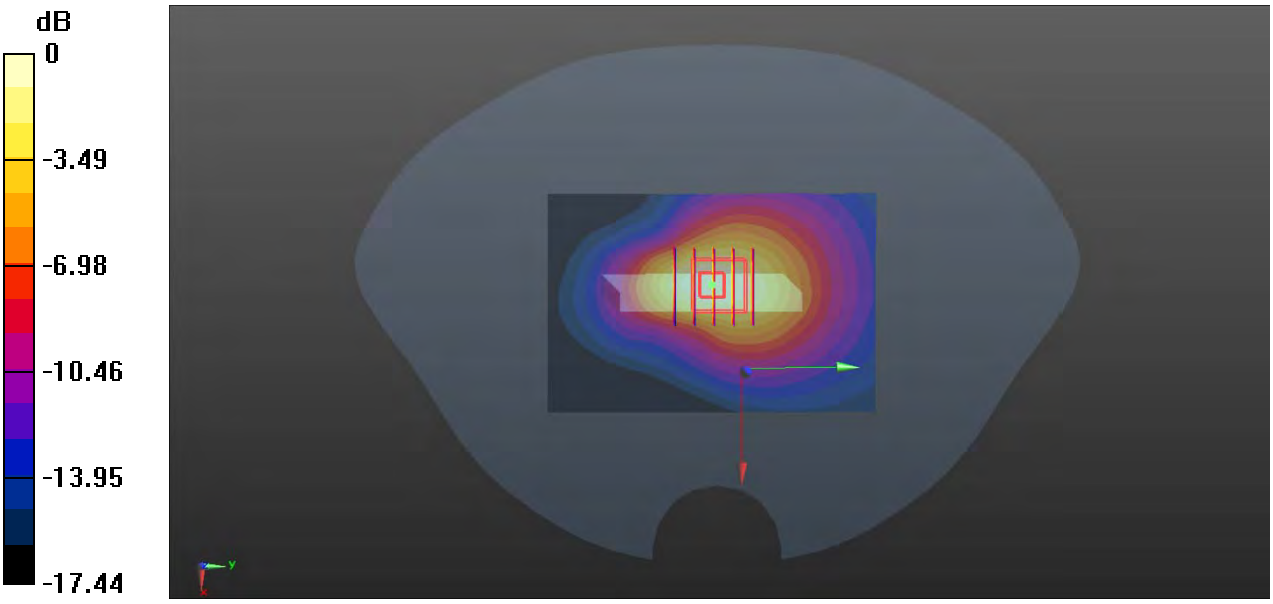
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.59 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.658 W/kg; SAR(10 g) = 0.388 W/kg

Maximum value of SAR (measured) = 0.728 W/kg



0 dB = 0.728 W/kg

30-Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band4 Mode With Antenna 31

Date: 2021.07.29

Communication System Band: Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1732.5 MHz; σ = 1.377 S/m; ε_r = 39.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch20175/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.90 W/kg

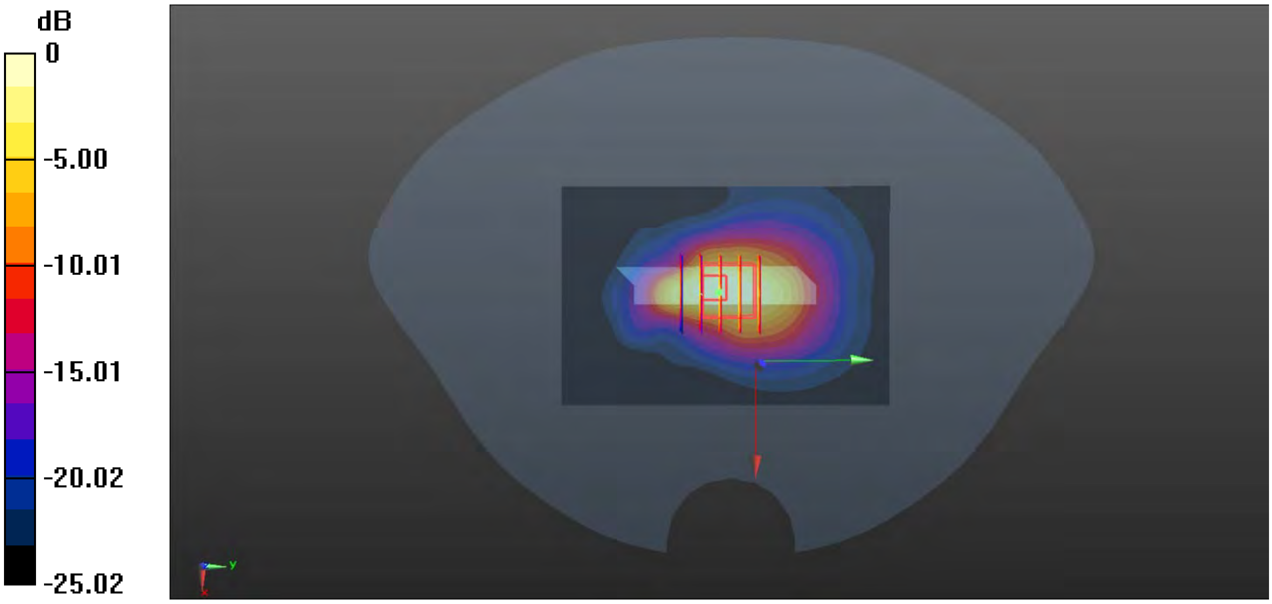
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 58.79 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 4.51 W/kg; SAR(10 g) = 2.12 W/kg

Maximum value of SAR (measured) = 5.34 W/kg



0 dB = 5.34 W/kg

31-Body Plane with Front 8mm on Middle Channel in LTE Band4 Mode With Antenna 13

Date: 2021.07.29

Communication System Band: Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.377 S/m; ε_r = 39.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch20175/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.25 W/kg

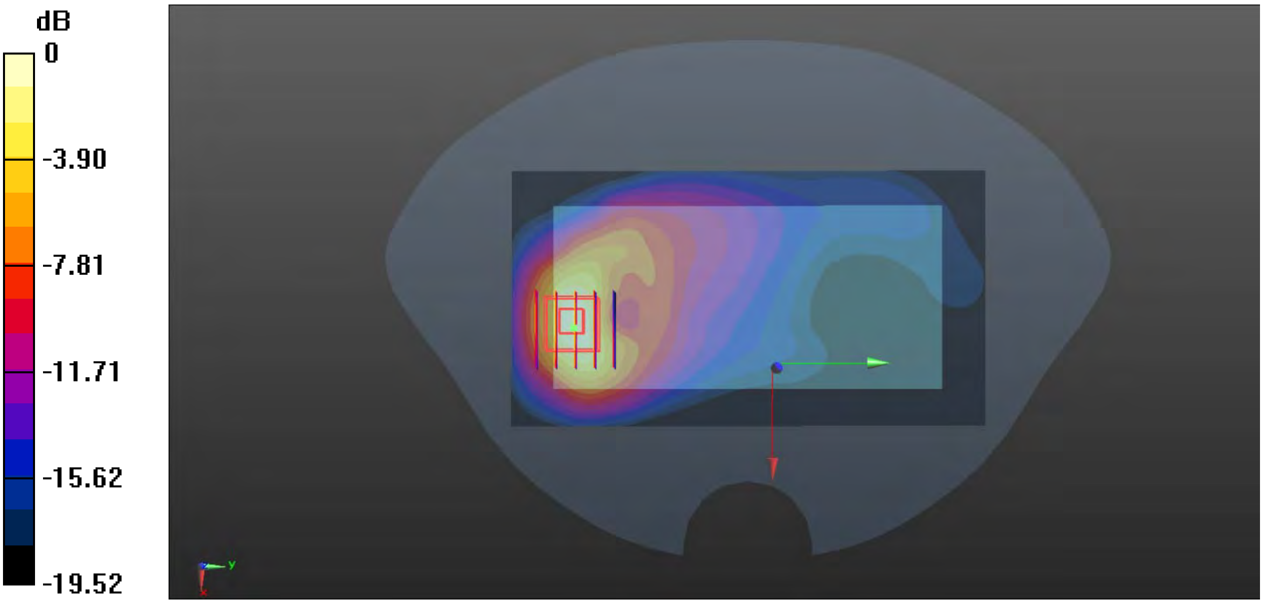
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.190 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.568 W/kg

Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.30 W/kg

32-Right Head with Check on High Channel in LTE B5 Mode With Antenna 13

Date: 2021.07.21

Communication System Band: Band 5; Frequency: 844 MHz;Duty Cycle: 1:1

Medium parameters used: f = 844 MHz; σ = 0.894 S/m; ε_r = 42.369; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.7 Liquid Temperature:21.9

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch20600/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.787 W/kg

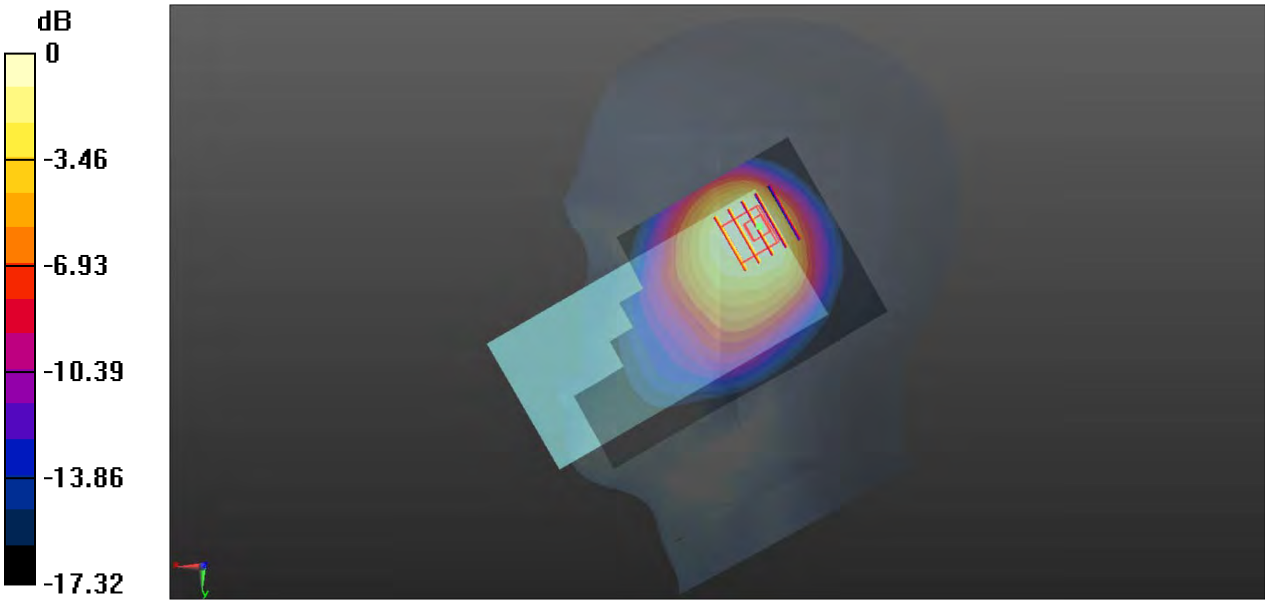
Ch20600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.95 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.616 W/kg; SAR(10 g) = 0.394 W/kg

Maximum value of SAR (measured) = 0.655 W/kg



0 dB = 0.655 W/kg

33-Body Plane with Back Side 15mm on High Channel in LTE Band5 mode With Antenna 41

Date: 2021.07.21

Communication System Band: Band 5; Frequency: 844 MHz;Duty Cycle: 1:1

Medium parameters used: f = 844 MHz; $\sigma = 0.894$ S/m; $\varepsilon_r = 42.369$; $\rho = 1000$ kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.9

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch20600/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.249 W/kg

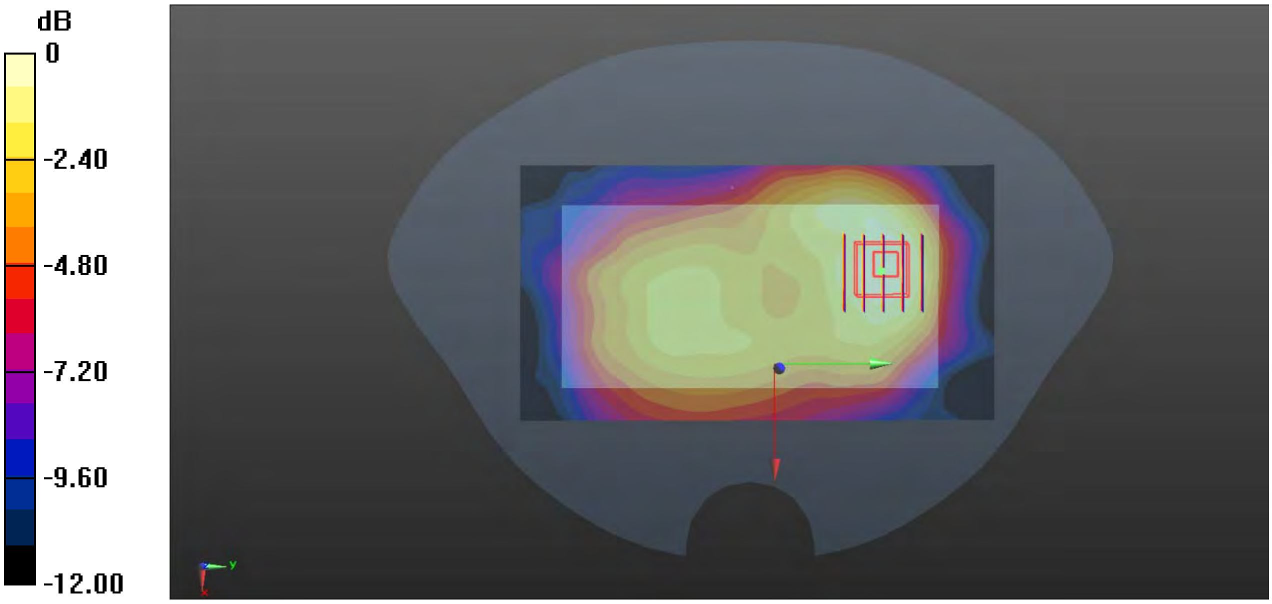
Ch20600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.20 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.316 W/kg

SAR(1 g) = 0.220 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.241 W/kg



0 dB = 0.241 W/kg

34-Body Plane with Back Side 10mm on High Channel in LTE Band5 mode With Antenna 31

Date: 2021.07.21

Communication System Band: Band 5; Frequency: 844 MHz;Duty Cycle: 1:1

Medium parameters used: f = 844 MHz; σ = 0.894 S/m; ε_r = 42.369; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.9

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(9.94, 9.94, 9.94); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch20600/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.385 W/kg

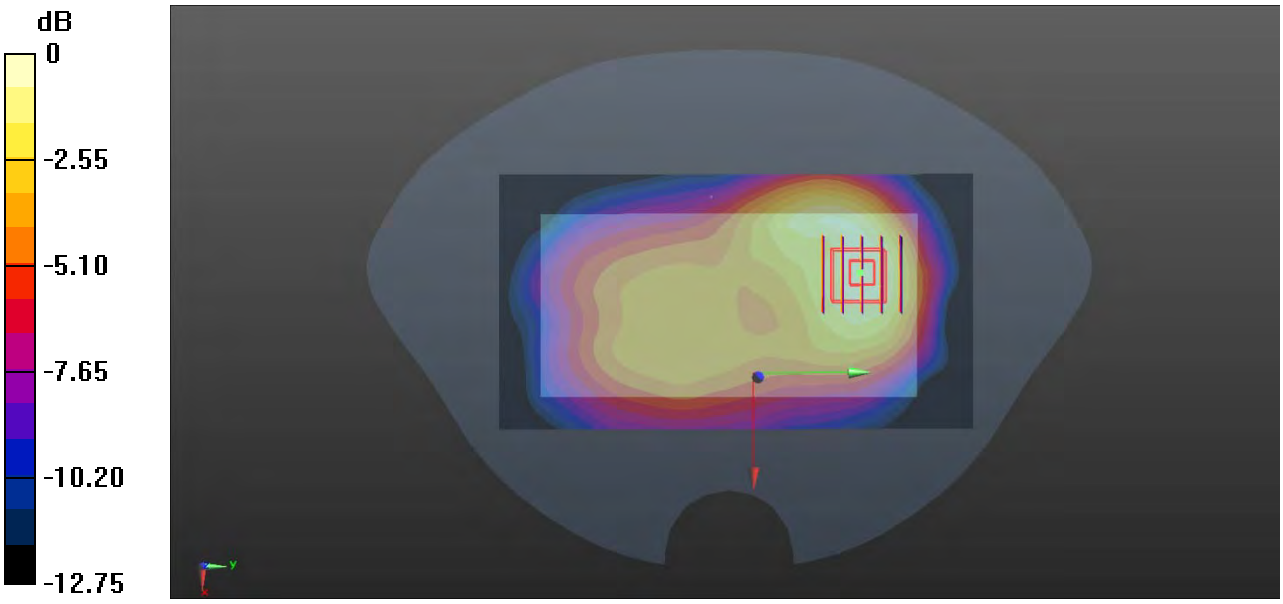
Ch20600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.02 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.572 W/kg

SAR(1 g) = 0.358 W/kg; SAR(10 g) = 0.226 W/kg

Maximum value of SAR (measured) = 0.390 W/kg



0 dB = 0.390 W/kg

35-Right Head with Tilt on Middle Channel in LTE Band7 mode With Antenna 13

Date: 2021.08.02

Communicatin System Band: Band 7; Frequency: 2535 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2535 MHz; σ = 1.889 S/m; ε_r = 39.846; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:21.6 Liquid Temperature:20.9

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.613 W/kg

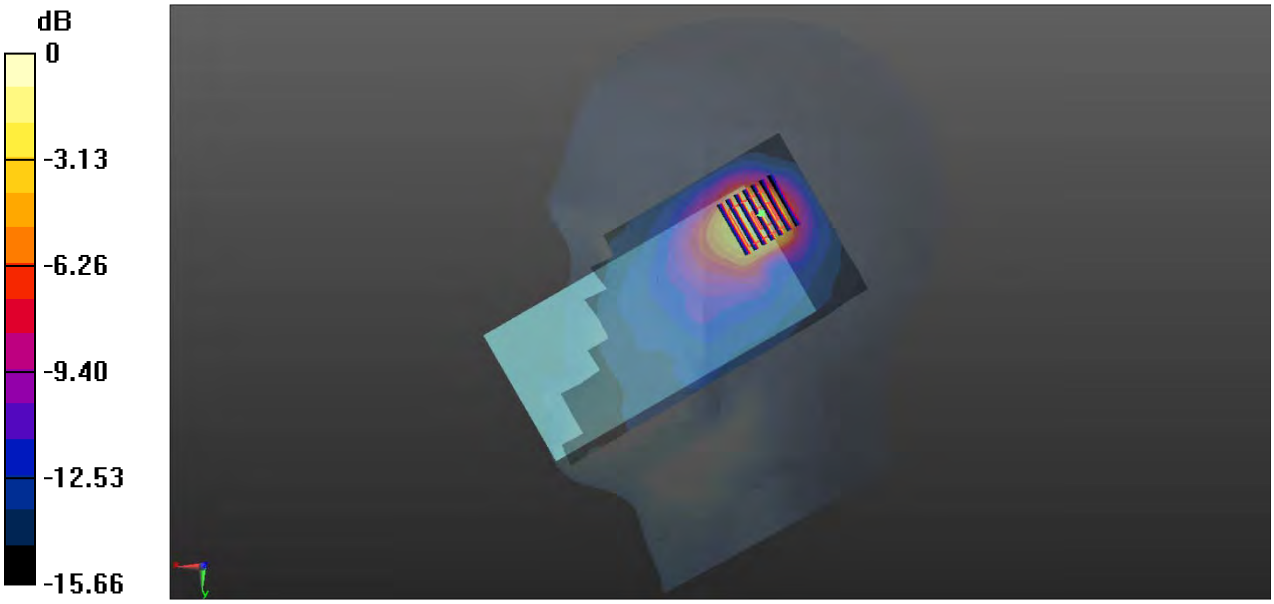
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.947 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.463 W/kg; SAR(10 g) = 0.206 W/kg

Maximum value of SAR (measured) = 0.519 W/kg



0 dB = 0.519 W/kg

36-Body Plan with Back Side 15mm on Middle Channel in LTE Band7 Mode With Antenna 13

Date: 2021.08.02

Communication System Band: Band 7; Frequency: 2535 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2535 MHz; σ = 1.889 S/m; ε_r = 39.846; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:21.6 Liquid Temperature:20.9

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.534 W/kg

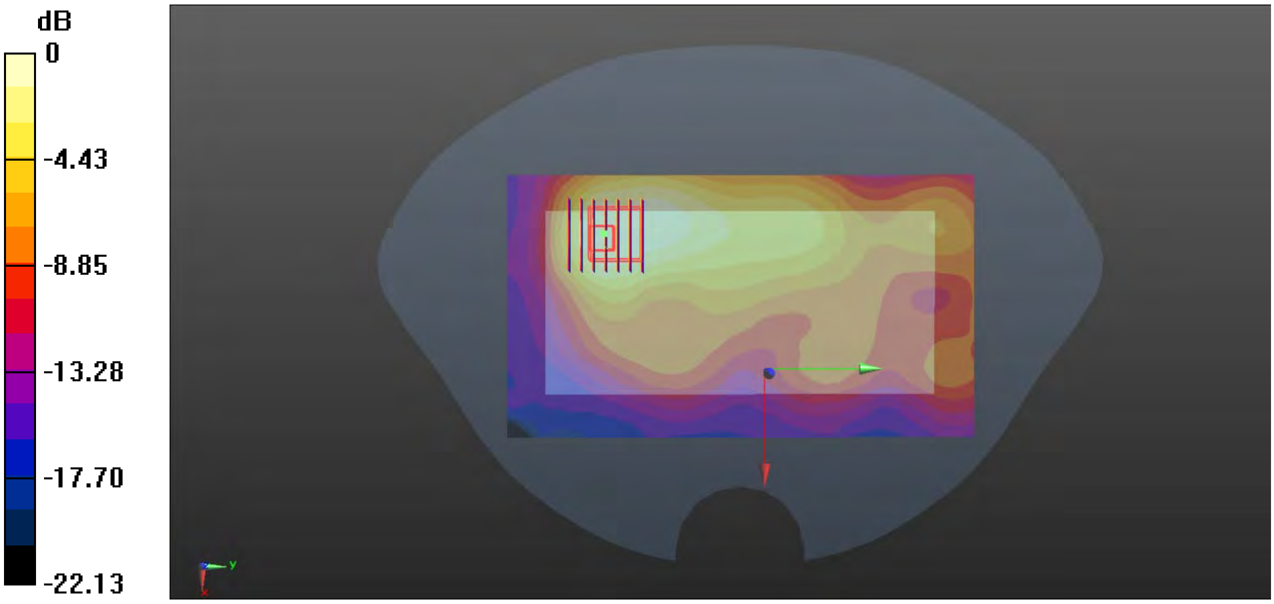
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.815 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.185 W/kg

Maximum value of SAR (measured) = 0.492 W/kg



0 dB = 0.492 W/kg

37-Body Plane with Back Side 10mm on Middle Channel in LTE Band7 mode With Antenna 31

Date: 2021.08.02

Communication System Band: Band 7; Frequency: 2535 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2535 MHz; σ = 1.889 S/m; ε_r = 39.846; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:21.6 Liquid Temperature:20.9

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.434 W/kg

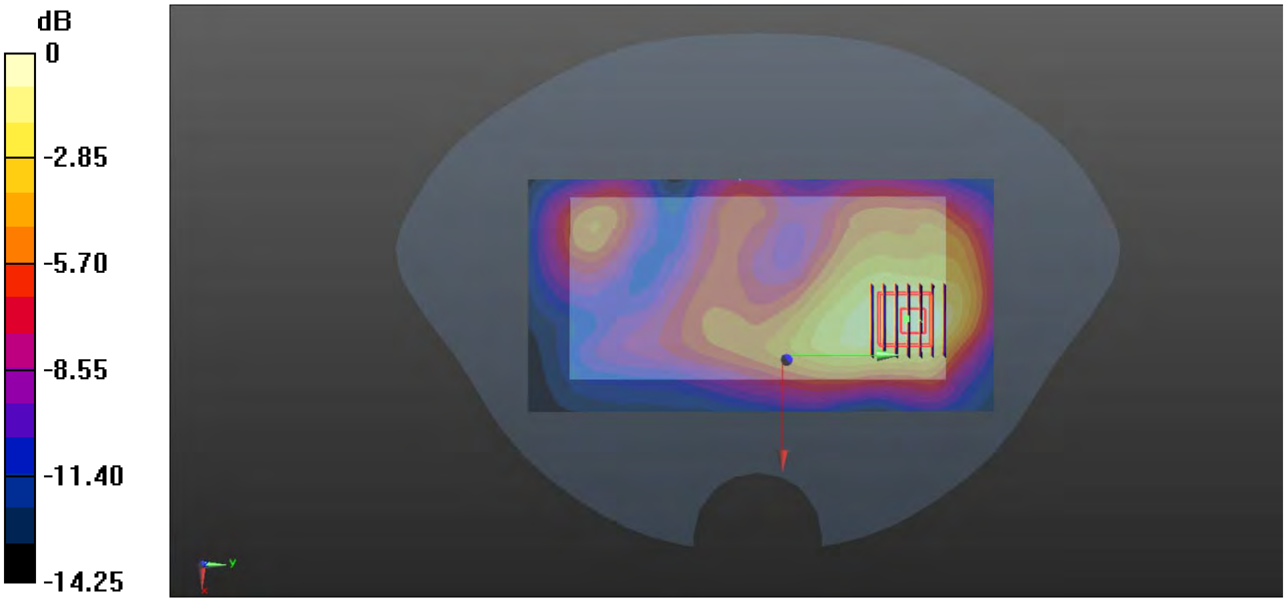
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.494 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.692 W/kg

SAR(1 g) = 0.388 W/kg; SAR(10 g) = 0.211 W/kg

Maximum value of SAR (measured) = 0.435 W/kg



0 dB = 0.435 W/kg

38-Body Plane with Front 8mm on Middle Channel in LTE Band7 Mode With Antenna 31

Date: 2021.08.02

Communication System Band: Band 7; Frequency: 2535 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2535 MHz; σ = 1.889 S/m; ε_r = 39.846; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:21.6 Liquid Temperature:20.9

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.676 W/kg

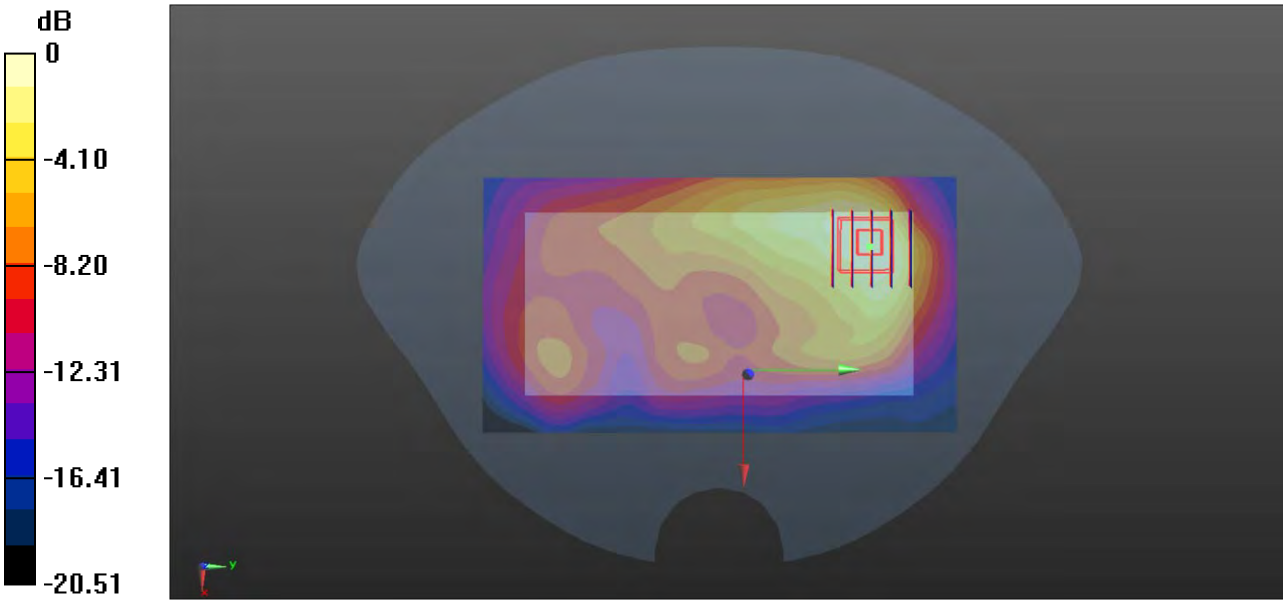
Ch21100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.160 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.587 W/kg; SAR(10 g) = 0.314 W/kg

Maximum value of SAR (measured) = 0.636 W/kg



0 dB = 0.636 W/kg

39-Right Head with Check on Low Channel in LTE Band12 Mode With Antenna 13

Date: 2021.07.20

Communication System Band: Band 12; Frequency: 704 MHz;Duty Cycle: 1:1

Medium parameters used: f = 704 MHz; σ = 0.869 S/m; ε_r = 41.974; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.2 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.31, 10.31, 10.31); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch23060/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.486 W/kg

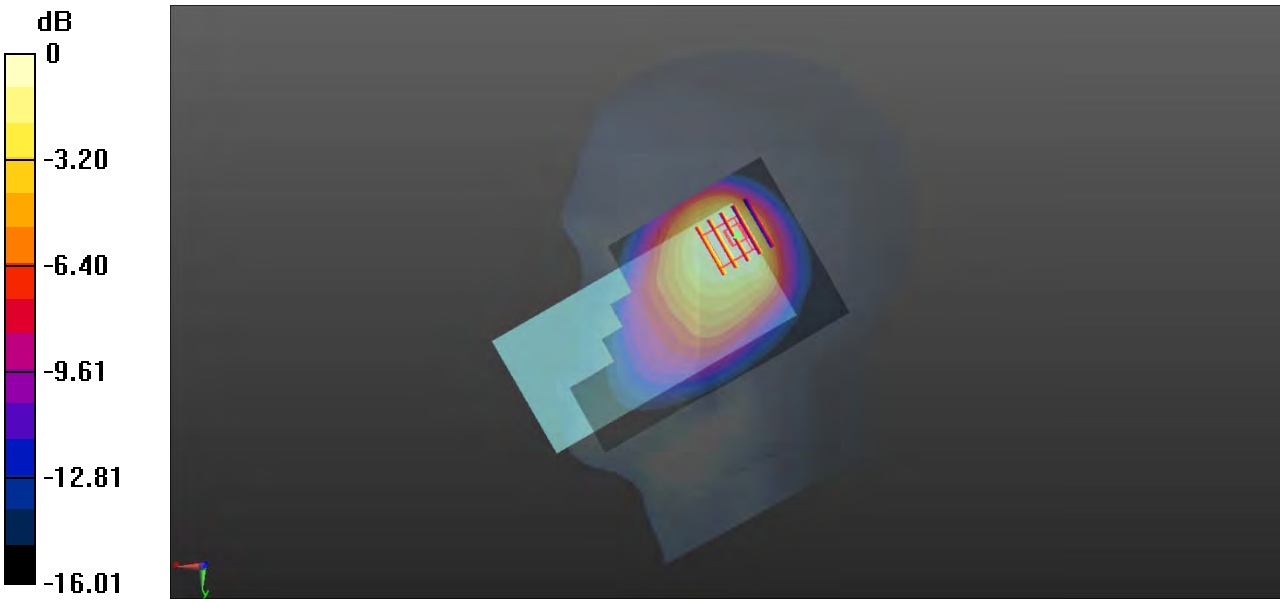
Ch23060/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.42 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.713 W/kg

SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.239 W/kg

Maximum value of SAR (measured) = 0.395 W/kg



0 dB = 0.395 W/kg

40-Body Plane with Back Side 15mm on Low Channel in LTE Band12 Mode With Antenna 41

Date: 2021.07.20

Communication System Band: Band 12; Frequency: 704 MHz;Duty Cycle: 1:1

Medium parameters used: f = 704 MHz; σ = 0.869 S/m; ε_r = 41.974; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.31, 10.31, 10.31); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch23060/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.244 W/kg

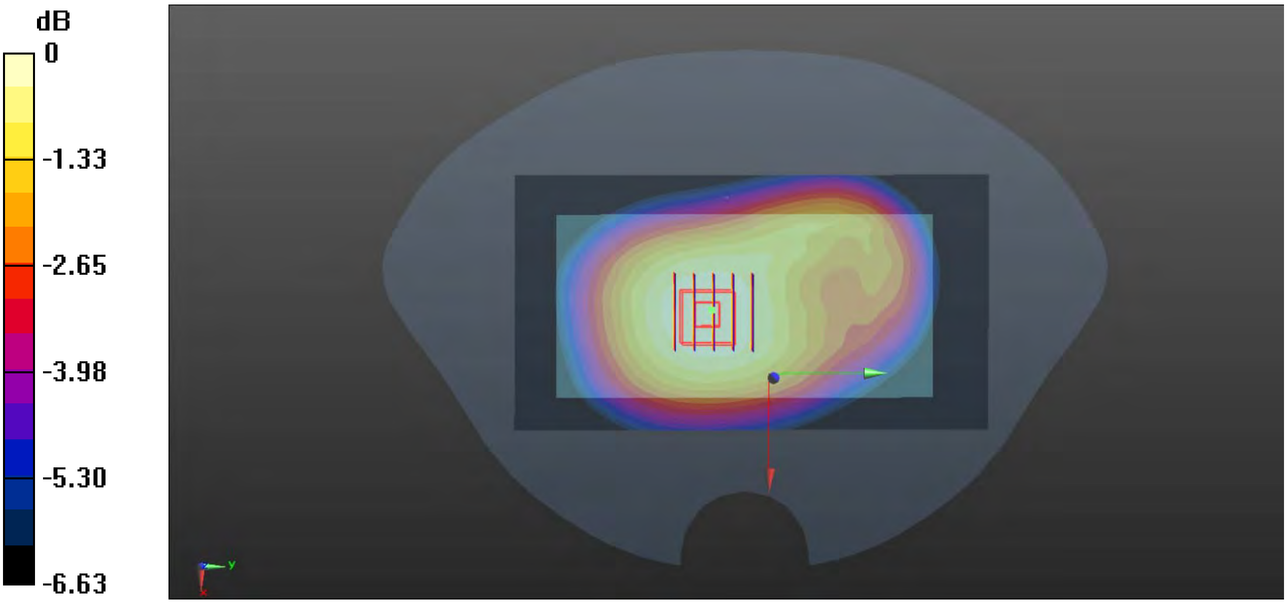
Ch23060/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.00 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.278 W/kg

SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.187 W/kg

Maximum value of SAR (measured) = 0.243 W/kg



0 dB = 0.243 W/kg

41-Body Plane with Right Edge 10mm on Low Channel in LTE Band12 Mode With Antenna 41

Date: 2021.07.20

Communication System Band: Band 12; Frequency: 704 MHz;Duty Cycle: 1:1

Medium parameters used: f = 704 MHz; σ = 0.869 S/m; ε_r = 41.974; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.31, 10.31, 10.31); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch23060/Area Scan (61x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.338 W/kg

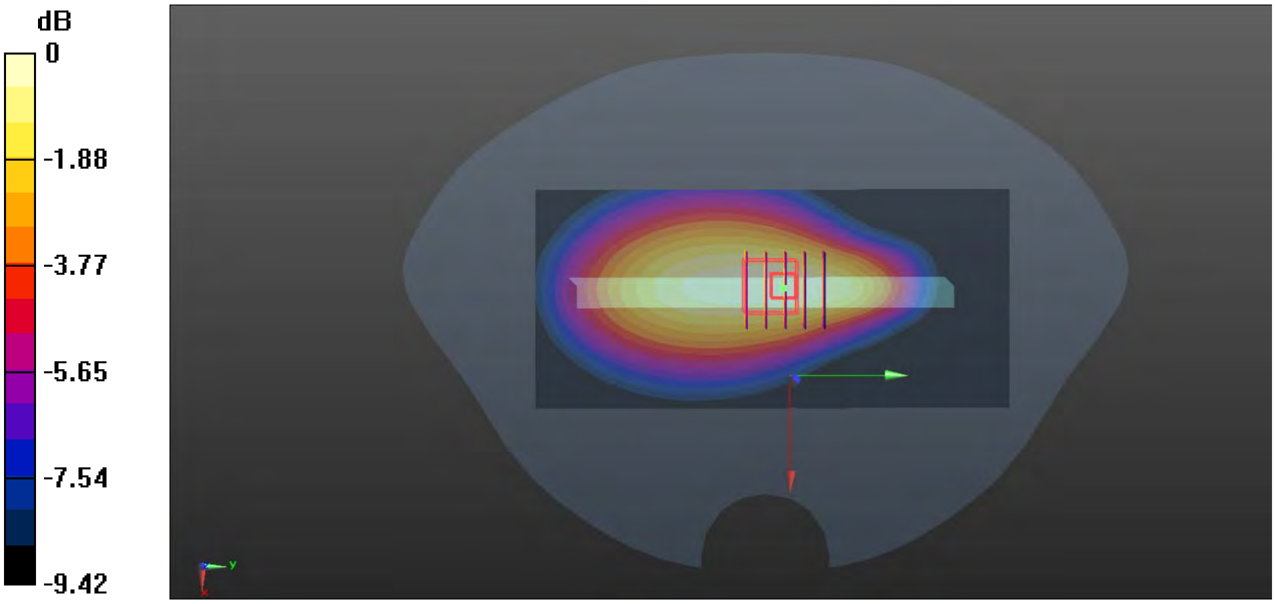
Ch23060/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.46 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.454 W/kg

SAR(1 g) = 0.316 W/kg; SAR(10 g) = 0.219 W/kg

Maximum value of SAR (measured) = 0.340 W/kg



0 dB = 0.340 W/kg

42-Right Head with Tilt on Middle Channel in LTE Band66 Mode With Antenna 13

Date: 2021.07.25

Communication System Band: Band 66; Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1745 MHz; σ = 1.358 S/m; ε_r = 40.354; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:21.9 Liquid Temperature:20.8

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch132322/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.729 W/kg

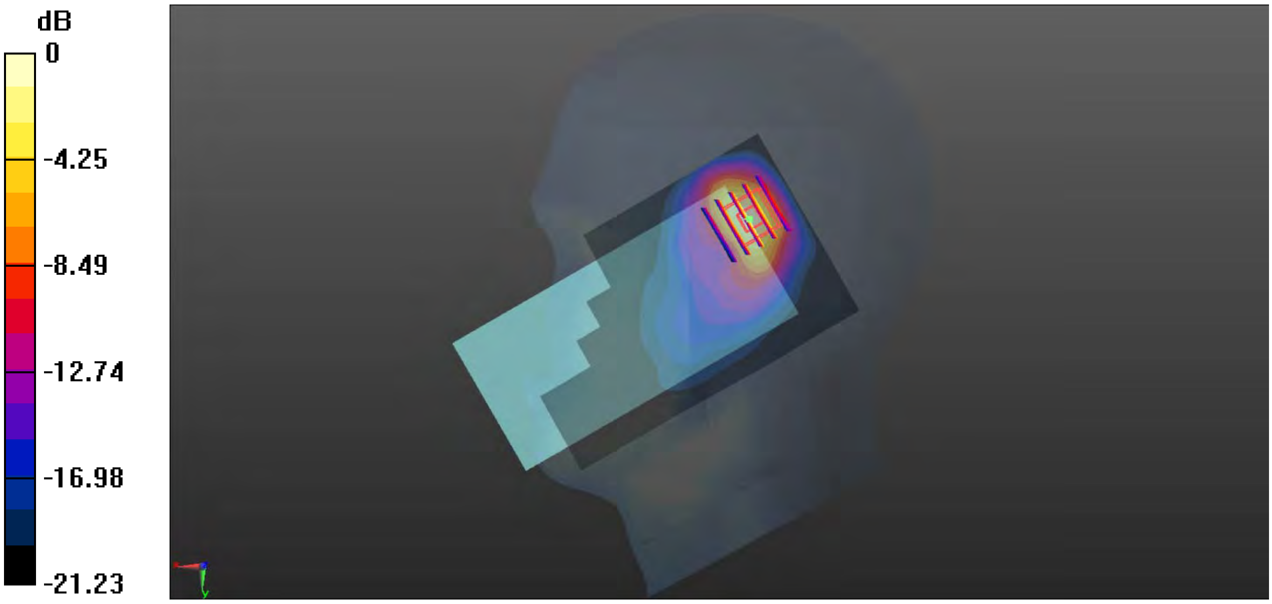
Ch132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.40 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.602 W/kg; SAR(10 g) = 0.272 W/kg

Maximum value of SAR (measured) = 0.760 W/kg



0 dB = 0.760 W/kg

43-Body Plane with Back 15mm on Middle Channel in LTE Band66 Mode With Antenna 31

Date: 2021.07.22

Communication System Band: Band 66; Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1745 MHz; σ = 1.366 S/m; ε_r = 39.875; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch132322/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.348 W/kg

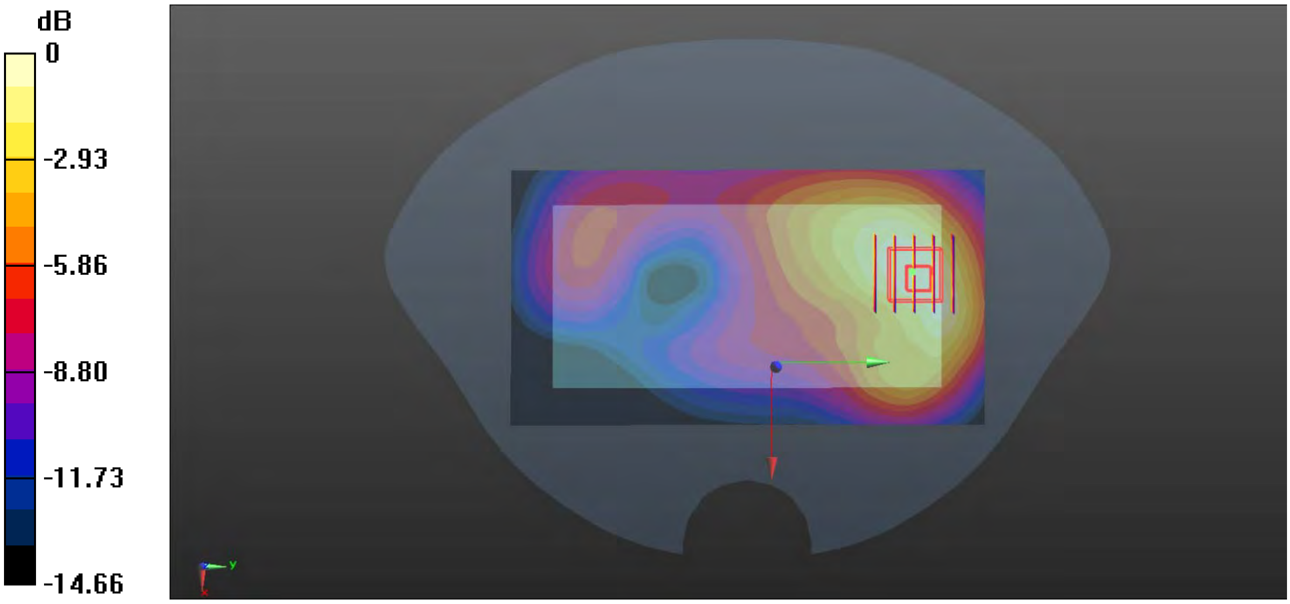
Ch132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.198 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.485 W/kg

SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.205 W/kg

Maximum value of SAR (measured) = 0.343 W/kg



0 dB = 0.343 W/kg

44-Body Plane with Back 10mm on Middle Channel in LTE B66 Mode With Antenna 31

Date: 2021.07.22

Communication System Band: Band 66; Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1745 MHz; σ = 1.366 S/m; ε_r = 39.874; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch132322/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.656 W/kg

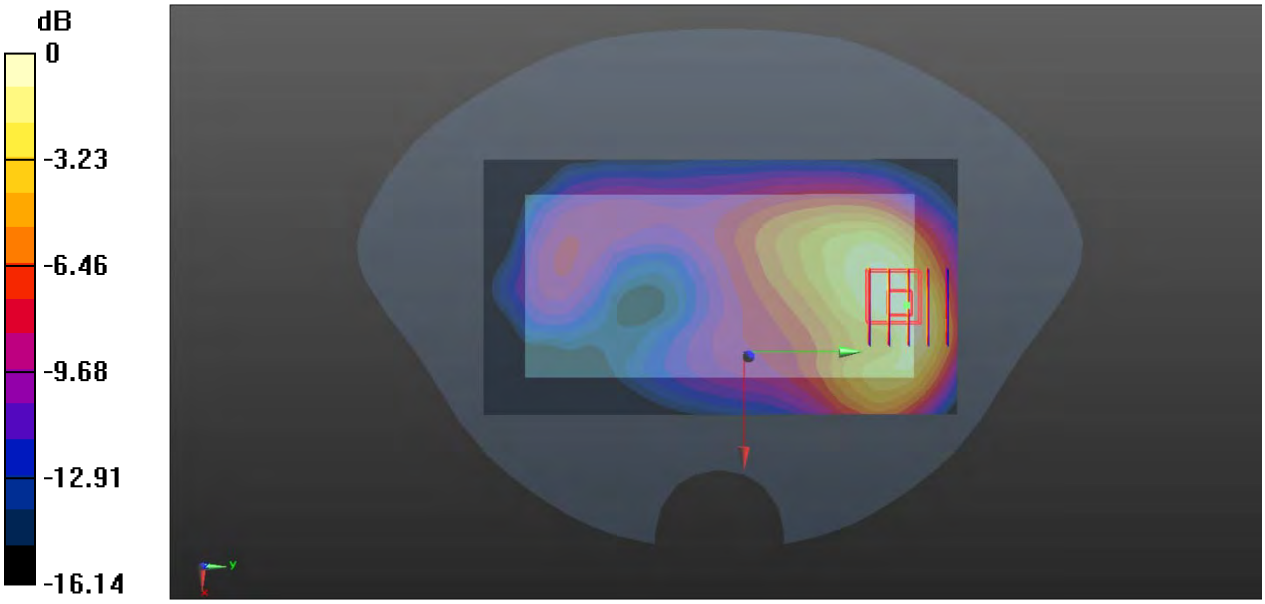
Ch132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.178 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.956 W/kg

SAR(1 g) = 0.612 W/kg; SAR(10 g) = 0.374 W/kg

Maximum value of SAR (measured) = 0.663 W/kg



0 dB = 0.663 W/kg

45-Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band66 Mode With Antenna 31

Date: 2021.07.22

Communication System Band: Band 66; Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1745 MHz; σ = 1.366 S/m; ε_r = 39.874; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch132322/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.11 W/kg

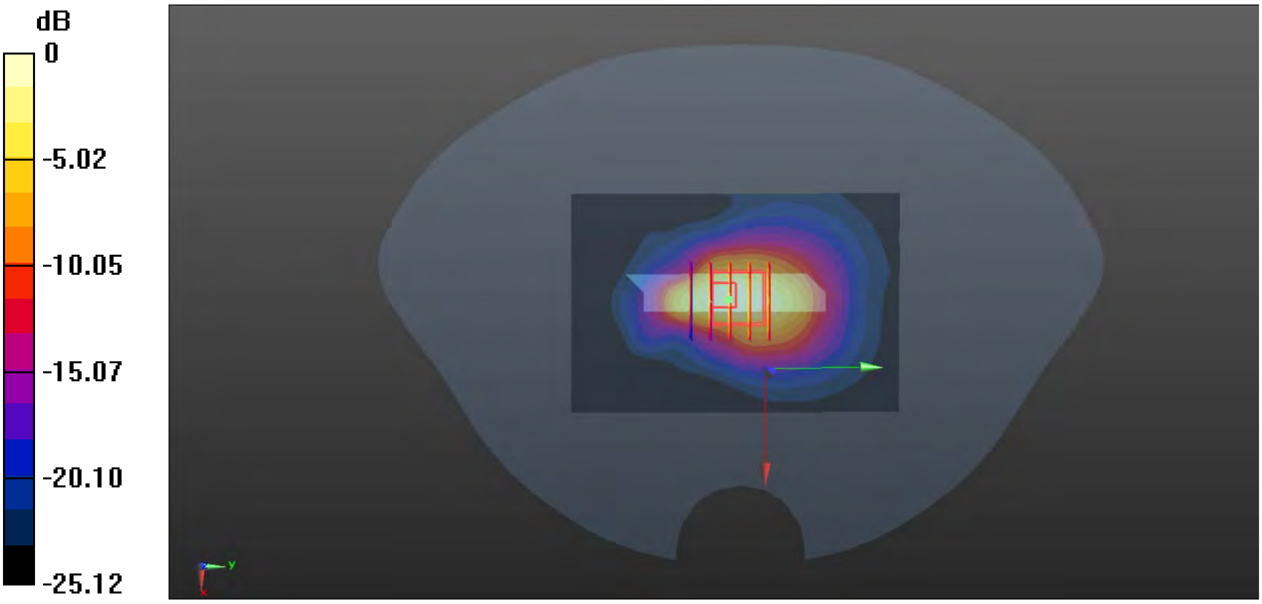
Ch132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.95 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 9.04 W/kg

SAR(1 g) = 3.89 W/kg; SAR(10 g) = 1.82 W/kg

Maximum value of SAR (measured) = 4.57 W/kg



0 dB = 4.57 W/kg

46-Body Plane with Back 11mm on Middle Channel in LTE Band66 Mode With Antenna 31

Date: 2021.07.22

Communication System Band: Band 66; Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1745 MHz; $\sigma = 1.366$ S/m; $\varepsilon_r = 39.874$; $\rho = 1000$ kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.6, 8.6, 8.6); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch132322/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.560 W/kg

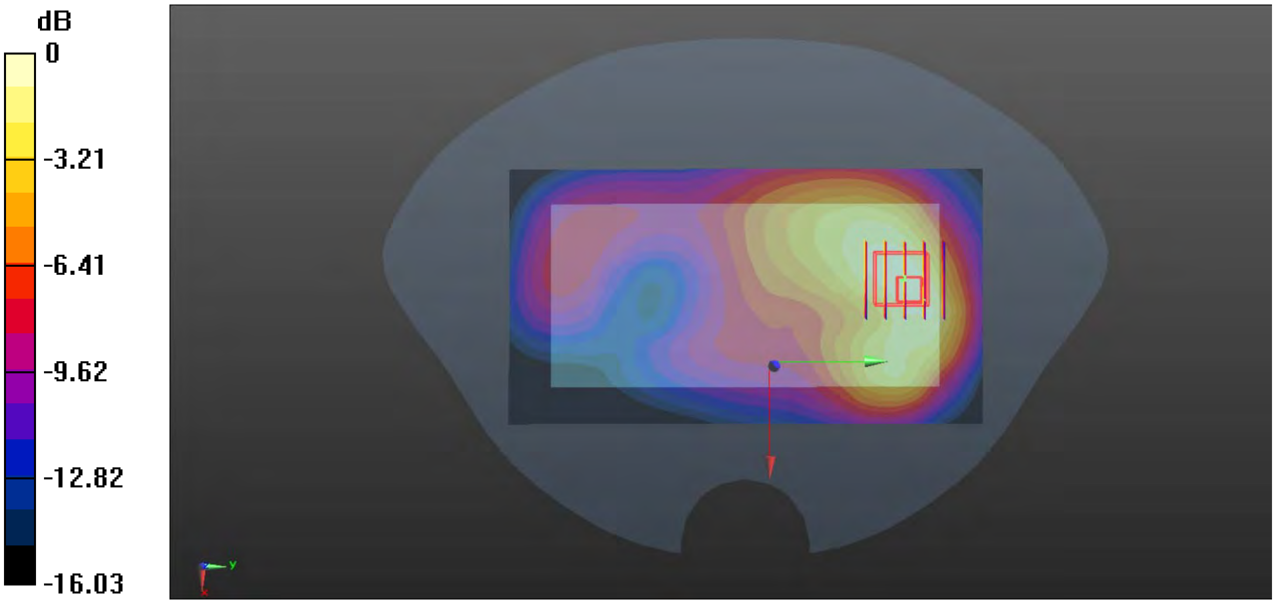
Ch132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.596 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.812 W/kg

SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.431 W/kg

Maximum value of SAR (measured) = 0.545 W/kg



0 dB = 0.545 W/kg

47-Right Head with Cheek on High Channel in LTE Band38 mode With Antenna 13

Date: 2021.08.05

Communication System Band: Band 38; Frequency: 2610 MHz;Duty Cycle: 1:1.58

Medium parameters used: f = 2610 MHz; $\sigma = 1.975$ S/m; $\varepsilon_r = 39.055$; $\rho = 1000$ kg/m^3

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch38150/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.737 W/kg

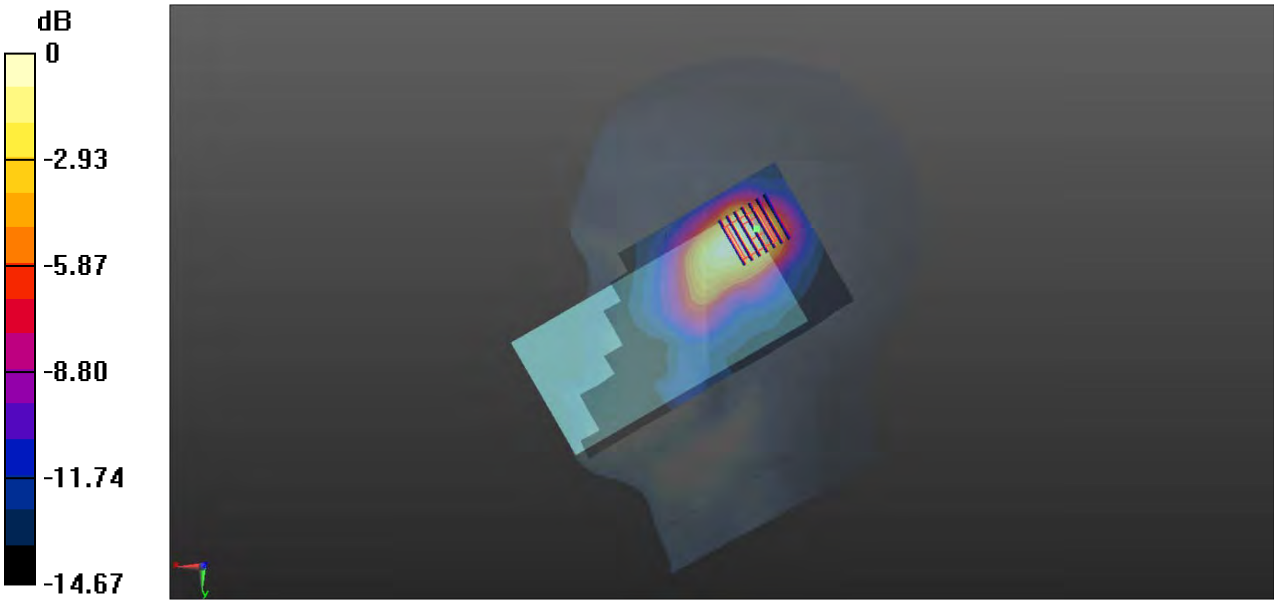
Ch38150/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.500 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.595 W/kg; SAR(10 g) = 0.280 W/kg

Maximum value of SAR (measured) = 0.608 W/kg



0 dB = 0.608 W/kg

48-Body Plane with Back Side 15mm on High Channel in LTE Band38 mode With Antenna 13

Date: 2021.08.03

Communication System Band: Band 38; Frequency: 2610 MHz;Duty Cycle: 1:1.58

Medium parameters used (extrapolated): f = 2610 MHz; σ = 2.016 S/m; ε_r = 39.568; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

38150/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.316 W/kg

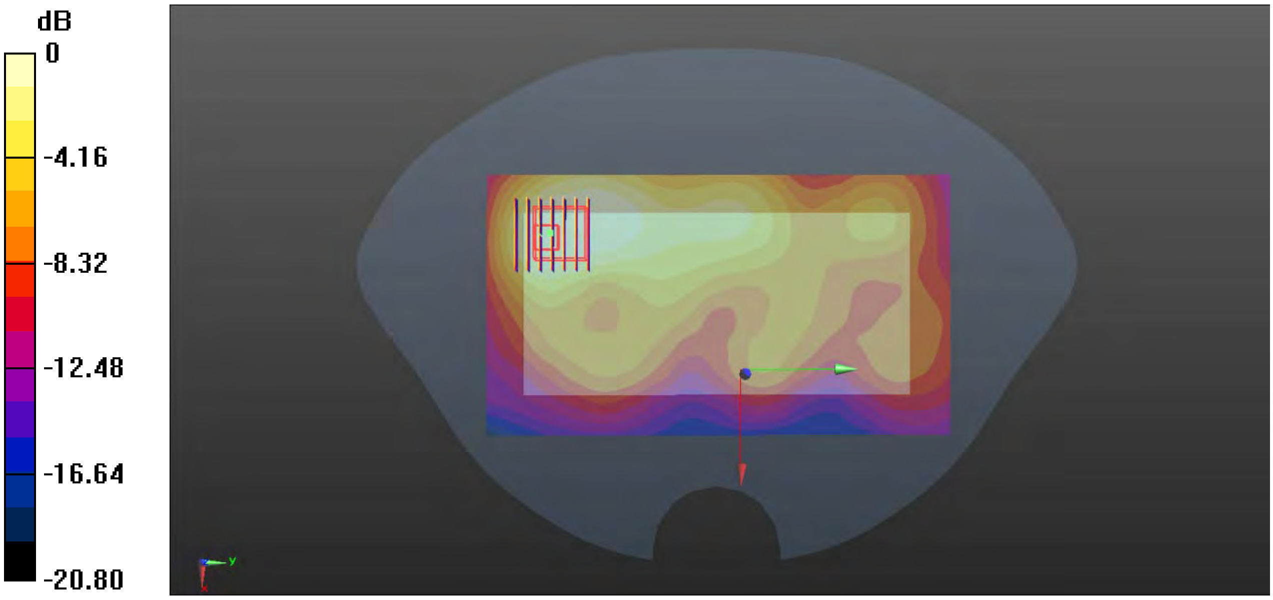
38150/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.501 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.588 W/kg

SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.145 W/kg

Maximum value of SAR (measured) = 0.297 W/kg



0 dB = 0.297 W/kg

49-Body Plane with Back Side 10mm on High Channel in LTE Band38 mode With Antenna 31

Date: 2021.08.03

Communication System Band: Band 38; Frequency: 2610 MHz;Duty Cycle: 1:1.58

Medium parameters used (interpolated): f = 2610 MHz; σ = 2.016 S/m; ε_r = 39.586; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch38150/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.565 W/kg

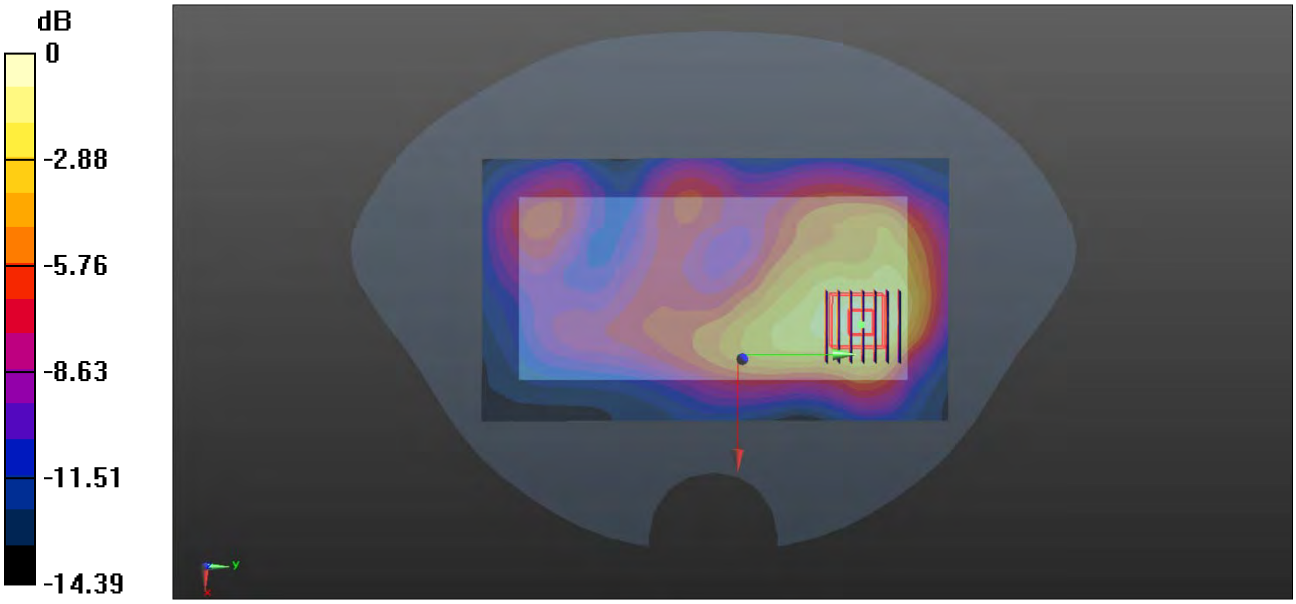
Ch38150/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.101 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.718 W/kg

SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.211 W/kg

Maximum value of SAR (measured) = 0.546 W/kg



0 dB = 0.546 W/kg

50-Body Plan with Back Side 11mm on High Channel in LTE B38 Mode With Antenna 13

Date: 2021.08.03

Communication System Band: Band 38; Frequency: 2610 MHz;Duty Cycle: 1:1.58

Medium parameters used: f = 2610 MHz; σ = 2.016 S/m; ε_r = 39.568; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.7

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch38150/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.534 W/kg

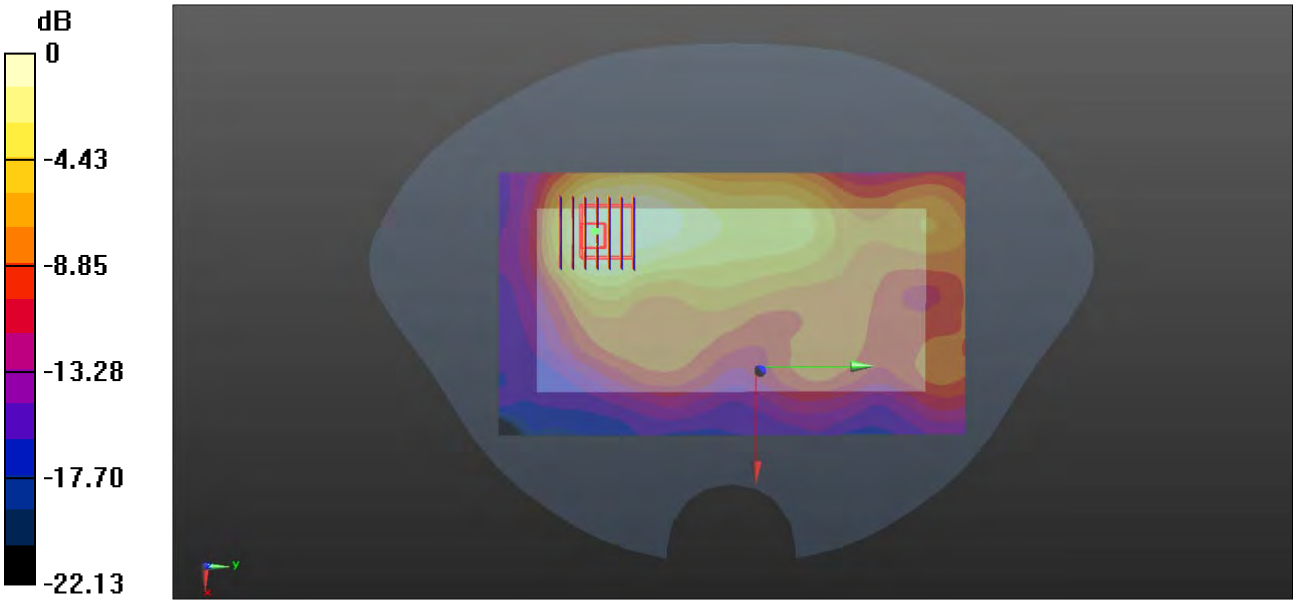
Ch38150/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.815 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.447 W/kg; SAR(10 g) = 0.225 W/kg

Maximum value of SAR (measured) = 0.492 W/kg



0 dB = 0.492 W/kg

51-Right Head with Cheek on High Channel in LTE Band41 mode With Antenna 13

Date: 2021.08.05

Communication System Band: Band 41; Frequency: 2593 MHz;Duty Cycle: 1:1.58

Medium parameters used: f = 2593 MHz; σ = 1.943 S/m; ε_r = 39.229; ρ = 1000 kg/m^3

Phantom section: Right Section

Ambient Temperature:22.1 Liquid Temperature:21.2

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch40620/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.711 W/kg

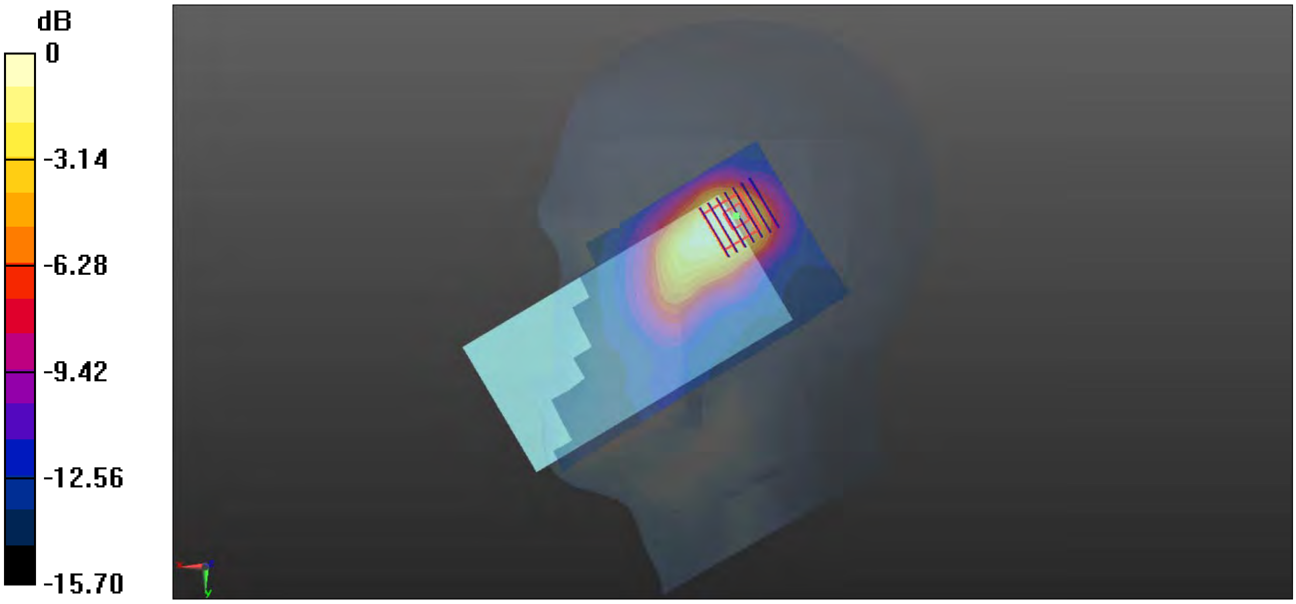
Ch40620/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.212 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.270 W/kg

Maximum value of SAR (measured) = 0.582 W/kg



0 dB = 0.582 W/kg

52-Body Plane with Back Side 15mm on High Channel in LTE B41 mode With Antenna 31

Date: 2021.08.06

Communication System Band: Band 41; Frequency: 2680 MHz;Duty Cycle: 1:1.58

Medium parameters used: f = 2680 MHz; σ = 2.056 S/m; ε_r = 38.164; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.2

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch41490/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.335 W/kg

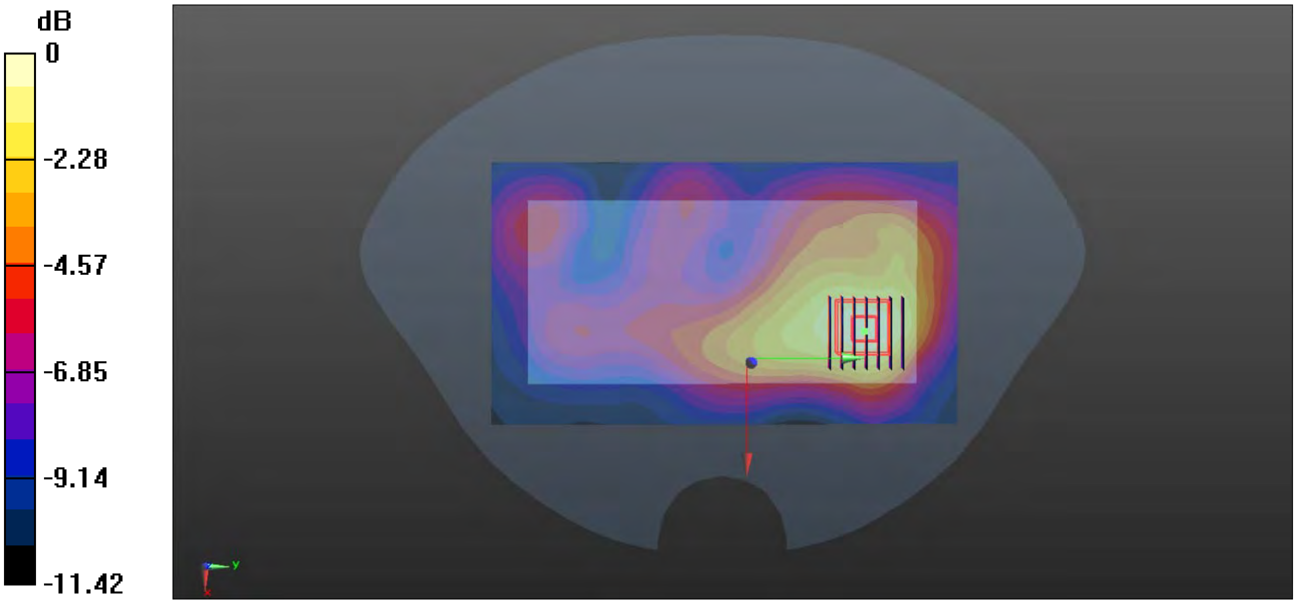
Ch41490/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.928 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.374 W/kg

SAR(1 g) = 0.281 W/kg; SAR(10 g) = 0.116 W/kg

Maximum value of SAR (measured) = 0.332 W/kg



0 dB = 0.332 W/kg

53-Body Plane with Back Side 10mm on High Channel in LTE Band41 mode With Antenna 31

Date: 2021.08.06

Communication System Band: Band 41; Frequency: 2680 MHz;Duty Cycle: 1:1.58

Medium parameters used: f = 2680 MHz; σ = 2.056 S/m; ε_r = 38.164; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.2

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch41490/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.463 W/kg

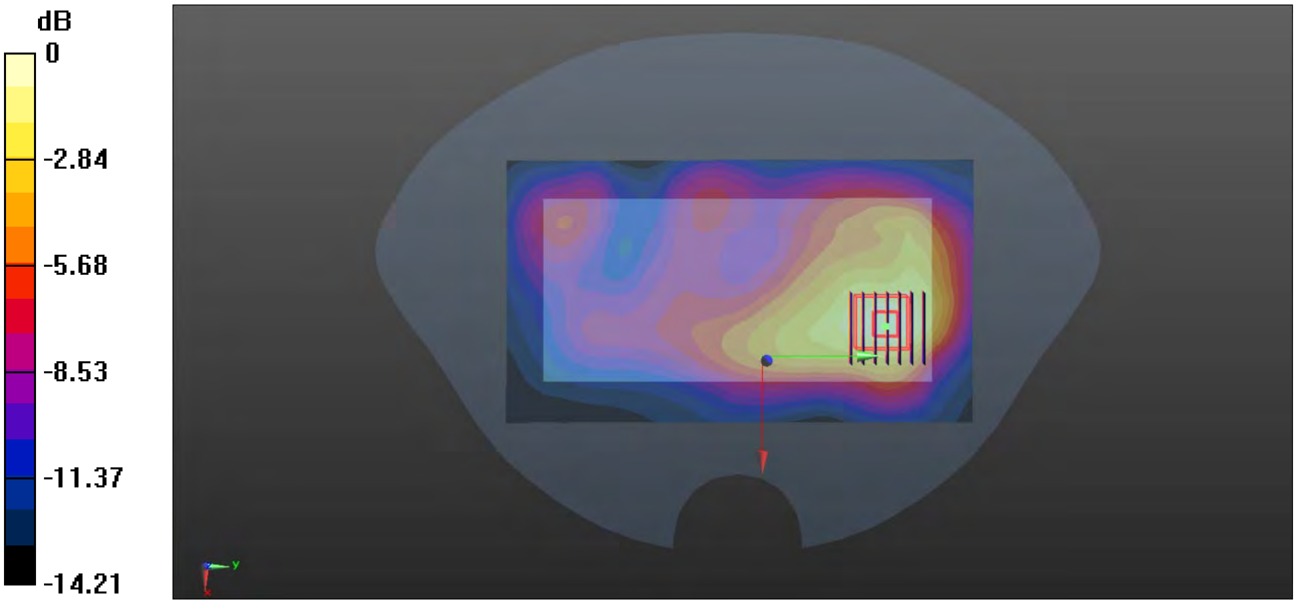
Ch41490/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.314 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.742 W/kg

SAR(1 g) = 0.413 W/kg; SAR(10 g) = 0.217 W/kg

Maximum value of SAR (measured) = 0.467 W/kg



0 dB = 0.467 W/kg

54-Body Plane with Back Side 11mm on Middle Channel in LTE B41 mode With Antenna 13

Date: 2021.08.06

Communication System Band: Band 41; Frequency: 2593 MHz;Duty Cycle: 1:1.58

Medium parameters used: f = 2593 MHz; σ = 1.911 S/m; ε_r = 38.244; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.2

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.5, 7.5, 7.5); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch40620/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.487 W/kg

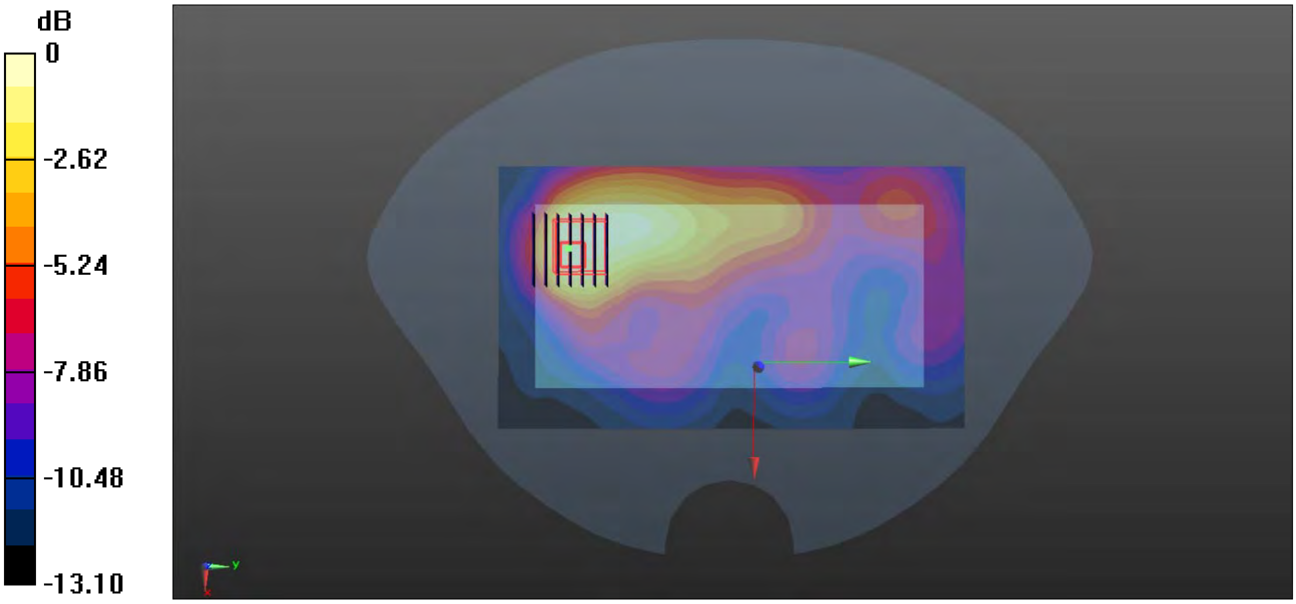
Ch40620/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.222 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 0.484 W/kg; SAR(10 g) = 0.222 W/kg

Maximum value of SAR (measured) = 0.461 W/kg



0 dB = 0.461 W/kg

55-Head with Cheek on 6 Channel in IEEE802.11b mode

Date: 2021.07.30

Communication System Band: WLAN(b); Frequency: 2437 MHz;Duty Cycle: 1:1.007

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.774 S/m; ε_r = 39.214; ρ = 1000 kg/m^3

Phantom section: Left Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.565 W/kg

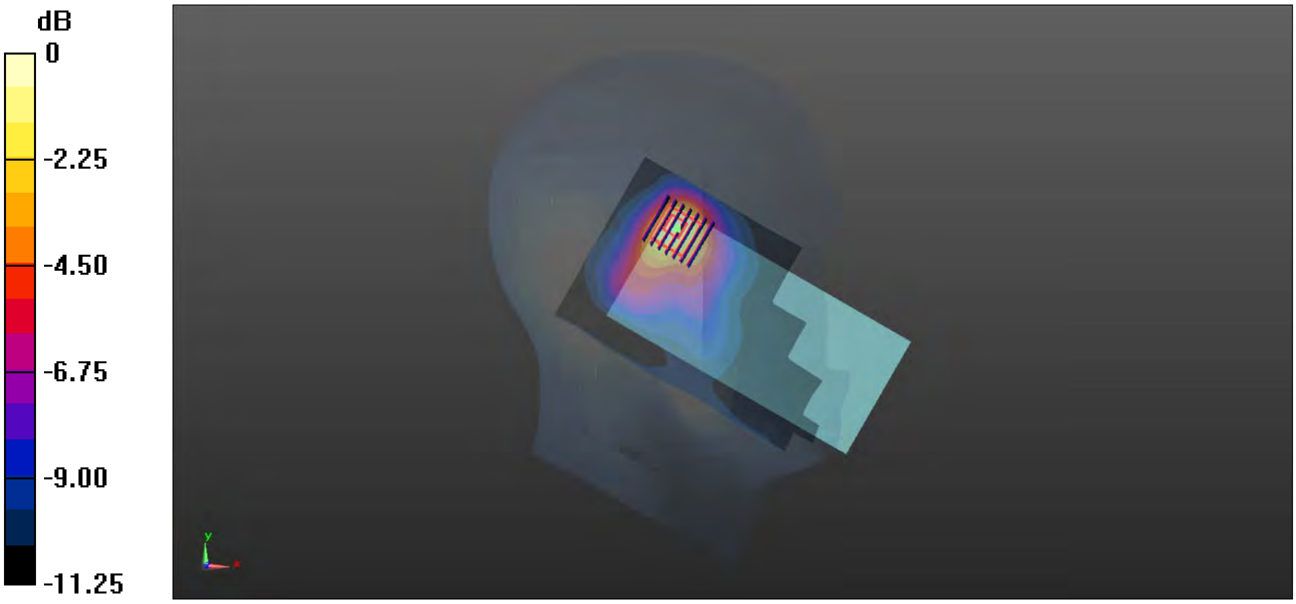
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.25 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.246 W/kg

Maximum value of SAR (measured) = 0.526 W/kg



0 dB = 0.526 W/kg

56-Body Plane with Back Side 15mm on 6 Channel in IEEE802.11b mode

Date: 2021.07.30

Communication System Band: WLAN(b); Frequency: 2437 MHz;Duty Cycle: 1:1.007

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.774 S/m; ε_r = 39.214; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.194 W/kg

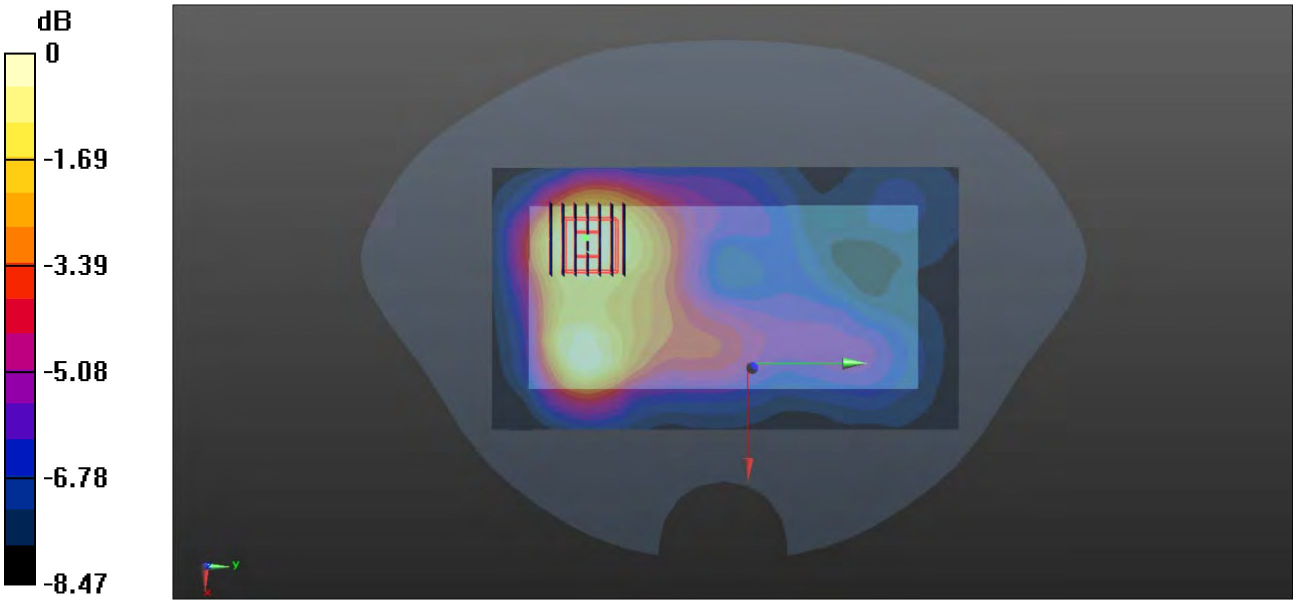
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.051 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.282 W/kg

SAR(1 g) = 0.171 W/kg; SAR(10 g) = 0.102 W/kg

Maximum value of SAR (measured) = 0.185 W/kg



0 dB = 0.185 W/kg

57-Body Plane with Back Side 10mm on 6 Channel in IEEE802.11b mode

Date: 2021.07.30

Communication System Band: WLAN(b); Frequency: 2437 MHz;Duty Cycle: 1:1.007

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.774 S/m; ε_r = 39.214; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.418 W/kg

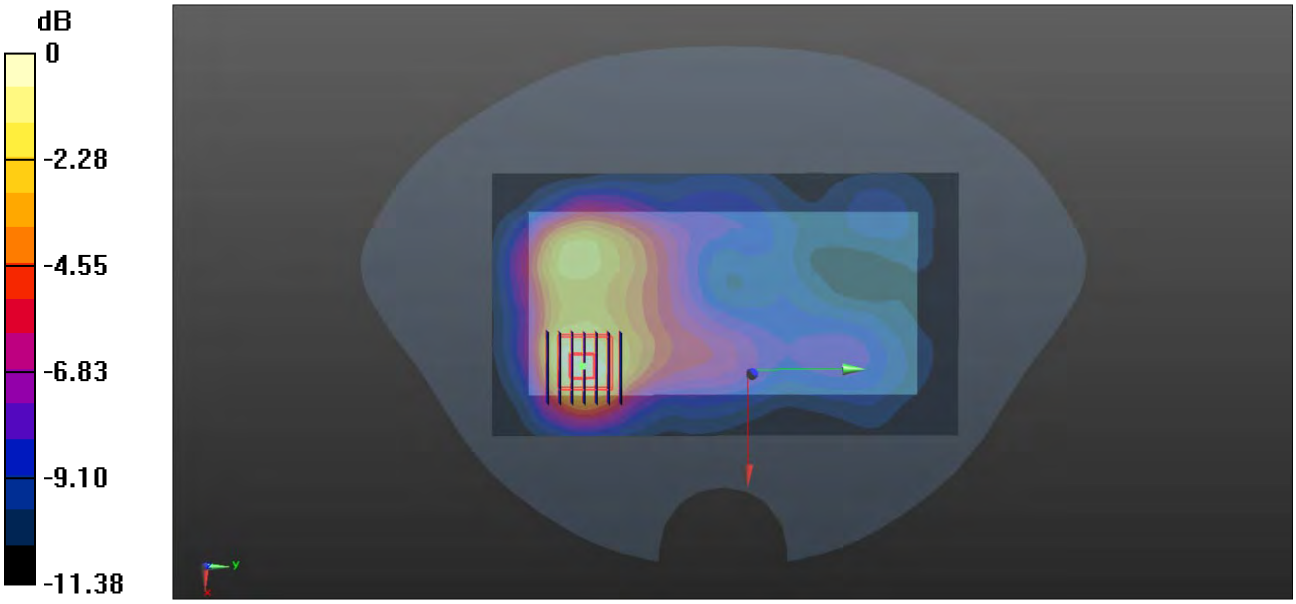
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.988 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.663 W/kg

SAR(1 g) = 0.340 W/kg; SAR(10 g) = 0.178 W/kg

Maximum value of SAR (measured) = 0.382 W/kg



0 dB = 0.382 W/kg

58-Left Head with Cheek on 60 Channel in IEEE802.11a mode

Date: 2021.08.07

Communication System Band: WLAN(a); Frequency: 5300 MHz;Duty Cycle: 1:1.033

Medium parameters used: f = 5300 MHz; σ = 4.712 S/m; ε_r = 36.311; ρ = 1000 kg/m^3

Phantom section: Left Section

Ambient Temperature:22.6 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.46, 5.46, 5.46); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch60/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.866 W/kg

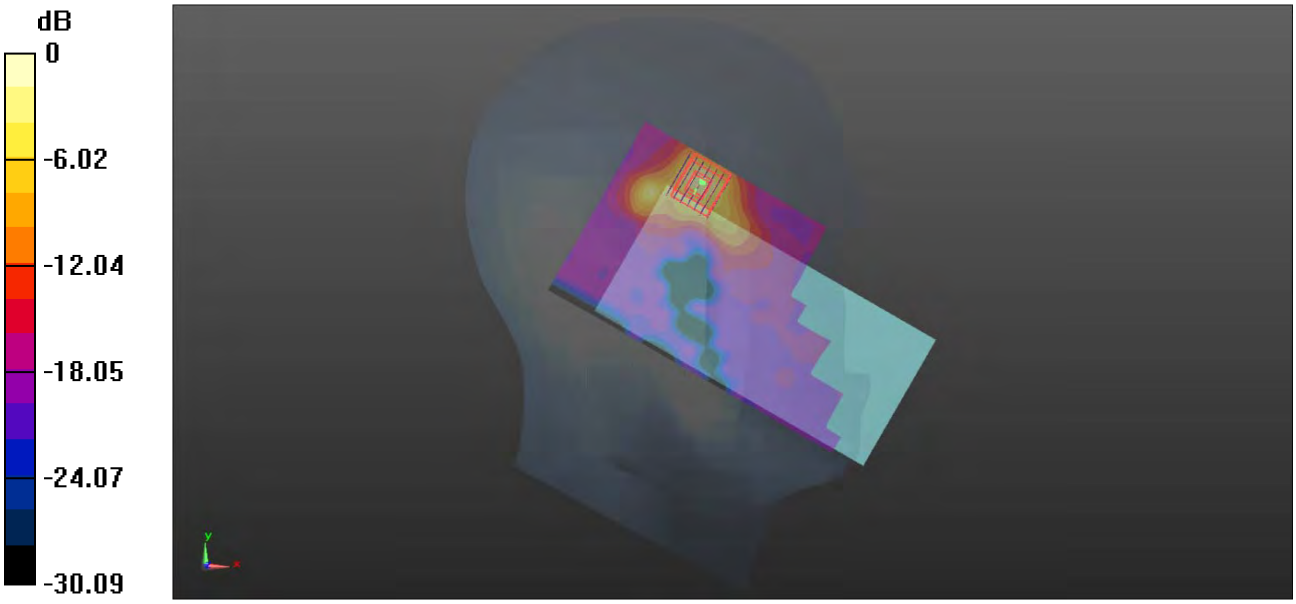
Ch60/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.501 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.01 W/kg

SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.154 W/kg

Maximum value of SAR (measured) = 1.29 W/kg



0 dB = 1.29 W/kg

59-Left Head with Cheek on 116 Channel in IEEE802.11a mode

Date: 2021.08.09

Communication System Band: WLAN(a); Frequency: 5580 MHz;Duty Cycle: 1:1.033

Medium parameters used (interpolated): f = 5580 MHz; σ = 5.108 S/m; ε_r = 35.735; ρ = 1000 kg/m^3

Phantom section: Left Section

Ambient Temperature:22.8 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.89, 4.89, 4.89); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch116/Area Scan (111x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.26 W/kg

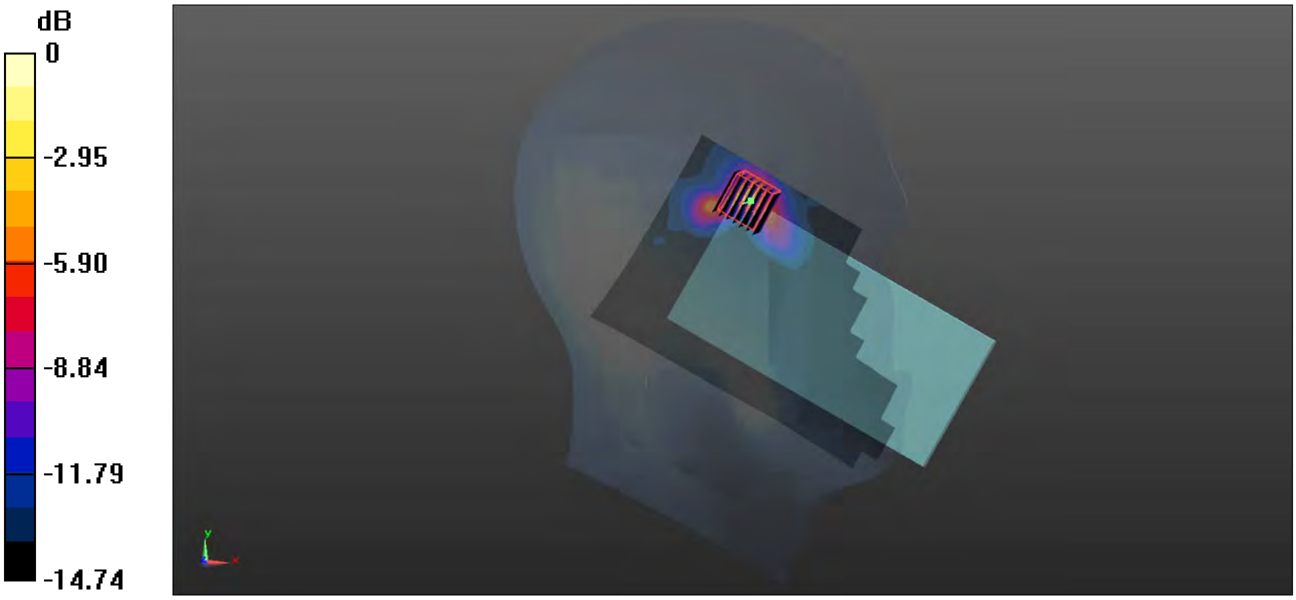
Ch116/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.013 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.59 W/kg

SAR(1 g) = 0.601 W/kg; SAR(10 g) = 0.183 W/kg

Maximum value of SAR (measured) = 1.52 W/kg



0 dB = 1.52 W/kg

60-Left Head with Cheek on 149 Channel in IEEE802.11a mode

Date: 2021.08.10

Communication System Band: WLAN(a); Frequency: 5745 MHz;Duty Cycle: 1:1.033

Medium parameters used (interpolated): f = 5745 MHz; σ = 5.145 S/m; ε_r = 35.232; ρ = 1000 kg/m^3

Phantom section: Left Section

Ambient Temperature:22.6 Liquid Temperature:21.2

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.96, 4.96, 4.96); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch149/Area Scan (111x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.09 W/kg

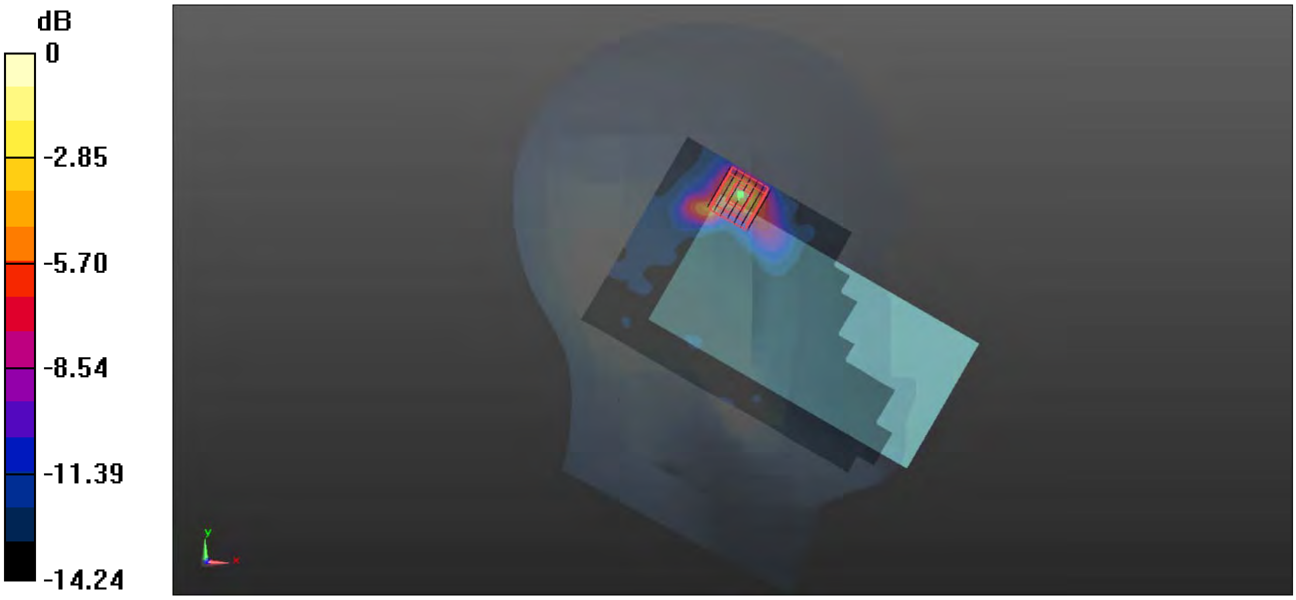
Ch149/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.986 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.05 W/kg

SAR(1 g) = 0.591 W/kg; SAR(10 g) = 0.185 W/kg

Maximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.31 W/kg

61-Body Plane with Back Side 0mm on 60 Channel in IEEE802.11a mode

Date: 2021.08.07

Communication System Band: WLAN(a); Frequency: 5300 MHz;Duty Cycle: 1:1.033

Medium parameters used: f = 5300 MHz; σ = 4.712 S/m; ε_r = 36.311; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.46, 5.46, 5.46); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch60/Area Scan (111x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

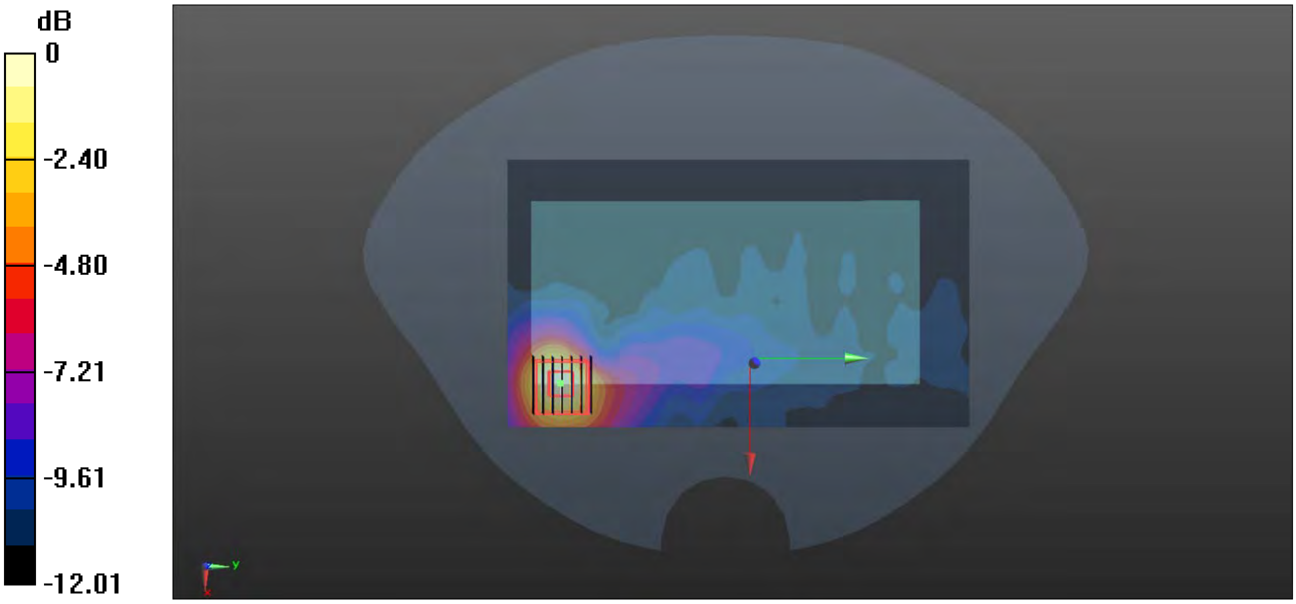
Ch60/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.568 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.240 W/kg

Maximum value of SAR (measured) = 0.996 W/kg



0 dB = 0.996 W/kg

62-Body Plane with Back Side 15mm on 116 Channel in IEEE802.11a Mode

Date: 2021.08.09

Communication System Band: WLAN(a); Frequency: 5580 MHz;Duty Cycle: 1:1.033

Medium parameters used: f = 5580 MHz; σ = 5.108 S/m; ε_r = 35.735; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.89, 4.89, 4.89); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch116/Area Scan (111x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.23 W/kg

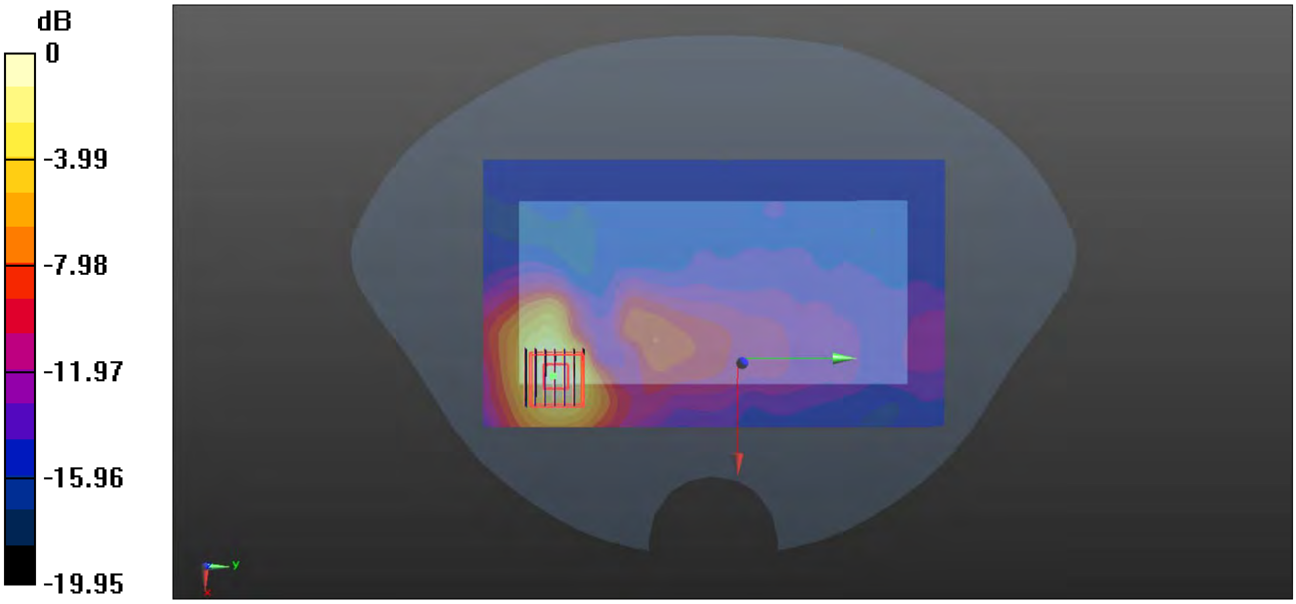
Ch116/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.675 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.46 W/kg

SAR(1 g) = 0.659 W/kg; SAR(10 g) = 0.252 W/kg

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg

63-Body Plane with Back Side 15mm on 149 Channel in IEEE802.11a Mode

Date: 2021.08.10

Communication System Band: WLAN(a); Frequency: 5745 MHz;Duty Cycle: 1:1.033

Medium parameters used: f = 5745 MHz; σ = 5.285 S/m; ε_r = 34.957; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.2

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.96, 4.96, 4.96); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch149/Area Scan (111x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.812 W/kg

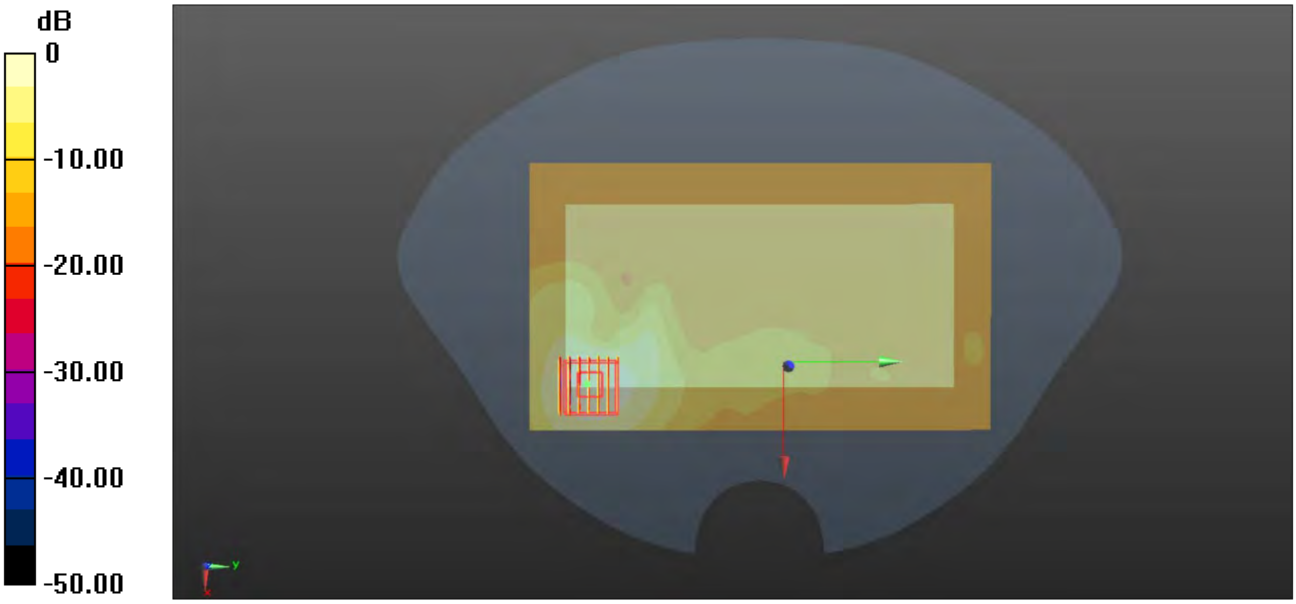
Ch149/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.473 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.152 W/kg

Maximum value of SAR (measured) = 0.764 W/kg



0 dB = 0.764 W/kg

64-Body Plane with Left Edge 10mm on 44 Channel in IEEE802.11a mode

Date: 2021.08.07

Communication System Band: WLAN(a); Frequency: 5220 MHz;Duty Cycle: 1:1.033

Medium parameters used (interpolated): f = 5220 MHz; σ = 4.526 S/m; ε_r = 36.926; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.46, 5.46, 5.46); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch44/Area Scan (71x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.836 W/kg

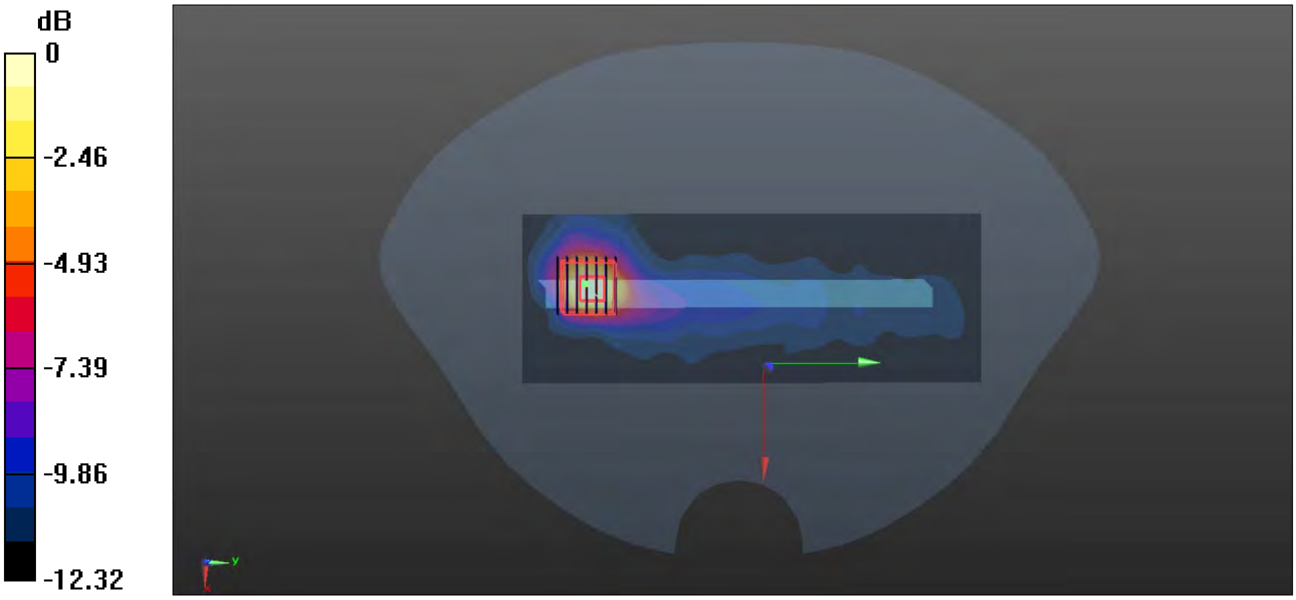
Ch44/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.779 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.154 W/kg

Maximum value of SAR (measured) = 0.741 W/kg



0 dB = 0.741 W/kg

65-Body Plane with Back Side 10mm on 149 Channel in IEEE802.11a Mode

Date: 2021.07.31

Communication System Band: WLAN(a); Frequency: 5745 MHz;Duty Cycle: 1:1.033

Medium parameters used: f = 5745 MHz; σ = 5.145 S/m; ε_r = 35.232; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.2

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.96, 4.96, 4.96); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch149/Area Scan (91x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.43 W/kg

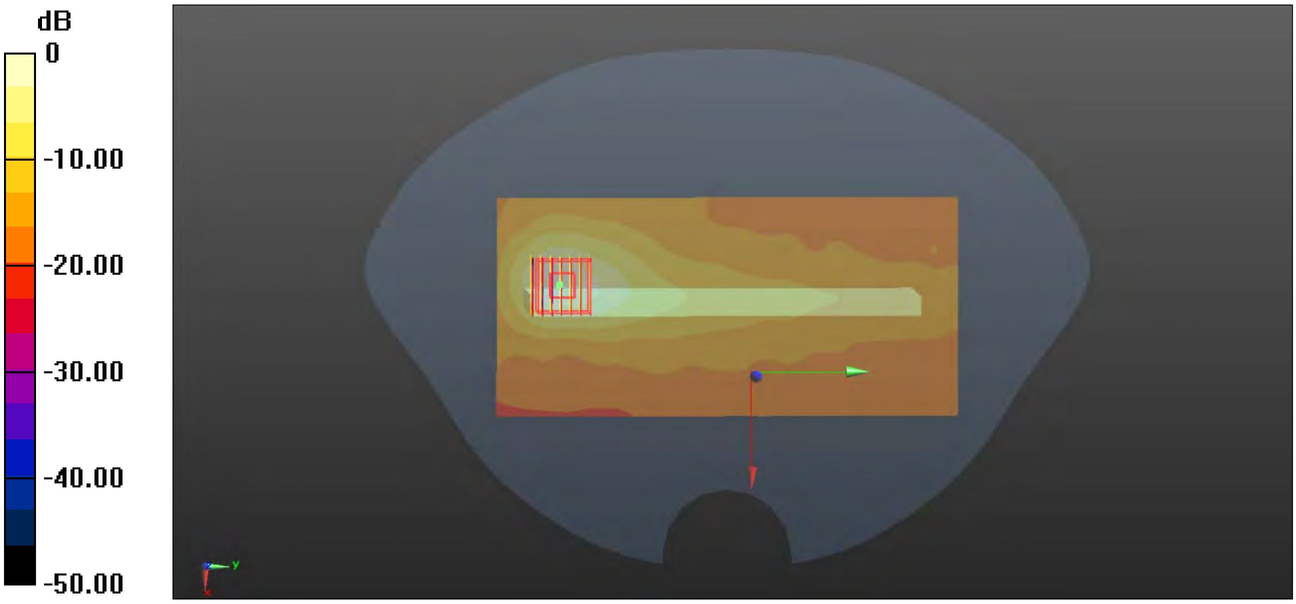
Ch149/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.209 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.84 W/kg

SAR(1 g) = 0.707 W/kg; SAR(10 g) = 0.235 W/kg

Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.37 W/kg

66-Body Plane with Left Edge 0mm on 60 Channel in IEEE802.11a mode

Date: 2021.08.07

Communication System Band: WLAN(a); Frequency: 5300 MHz;Duty Cycle: 1:1.033

Medium parameters used (interpolated): f = 5300 MHz; σ = 4.712 S/m; ε_r = 36.311; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.3

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.46, 5.46, 5.46); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch60/Area Scan (91x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 46.0 W/kg

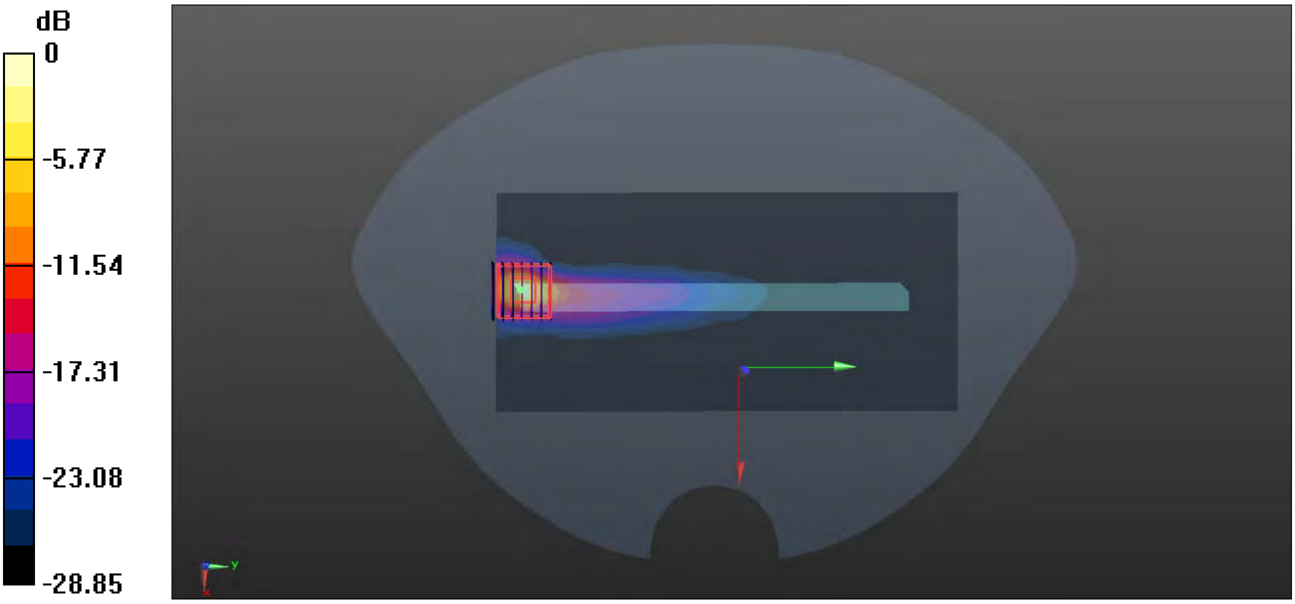
Ch60/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.869 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 120 W/kg

SAR(1 g) = 16.3 W/kg; SAR(10 g) = 2.83 W/kg

Maximum value of SAR (measured) = 46.2 W/kg



0 dB = 46.2 W/kg

67-Body Plane with Back Side 0mm on 116 Channel in IEEE802.11a Mode

Date: 2021.08.09

Communication System Band: WLAN(a); Frequency: 5580 MHz;Duty Cycle: 1:1.033

Medium parameters used: f = 5580 MHz; σ = 5.108 S/m; ε_r = 35.735; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.8 Liquid Temperature:21.5

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.89, 4.89, 4.89); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch116/Area Scan (91x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 25.5 W/kg

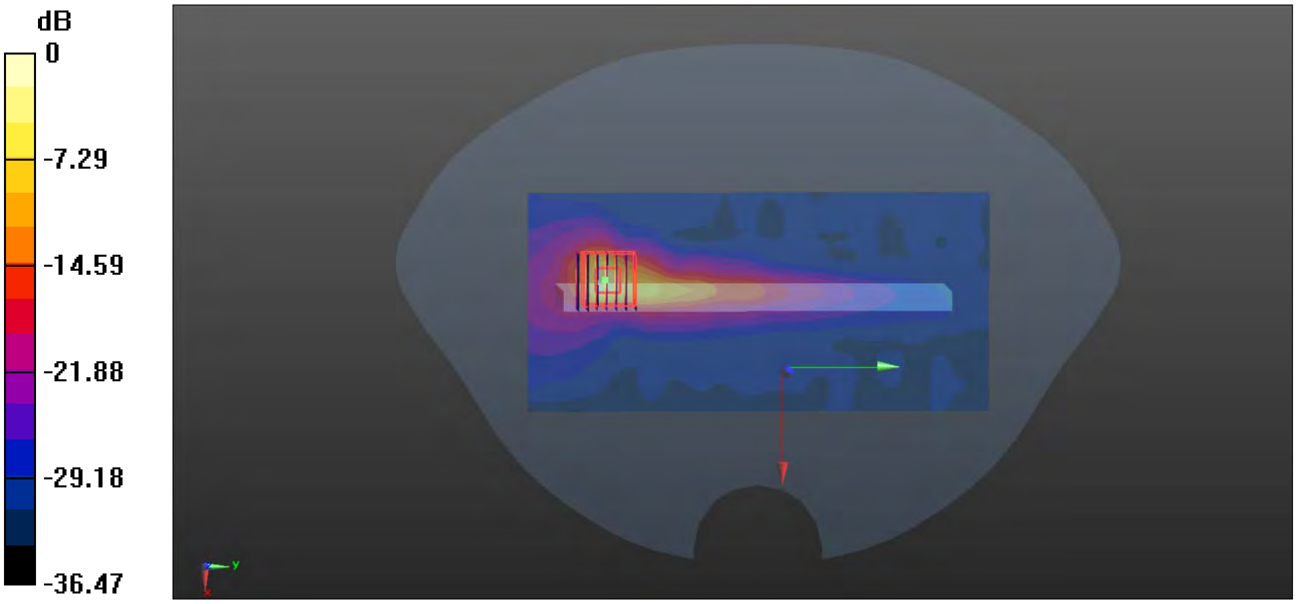
Ch116/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.044 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 102 W/kg

SAR(1 g) = 14.6 W/kg; SAR(10 g) = 2.8 W/kg

Maximum value of SAR (measured) = 40.4 W/kg



0 dB = 40.4 W/kg

68-Body Plane with Left Edge 0mm on 149 Channel in IEEE802.11a mode

Date: 2021.08.10

Communication System Band: WLAN(a); Frequency: 5745 MHz;Duty Cycle: 1:1.033

Medium parameters used (interpolated): f = 5745 MHz; σ = 5.145 S/m; ε_r = 35.232; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.2

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.96, 4.96, 4.96); Calibrated: 2020.11.30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch149/Area Scan (71x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 26.5 W/kg

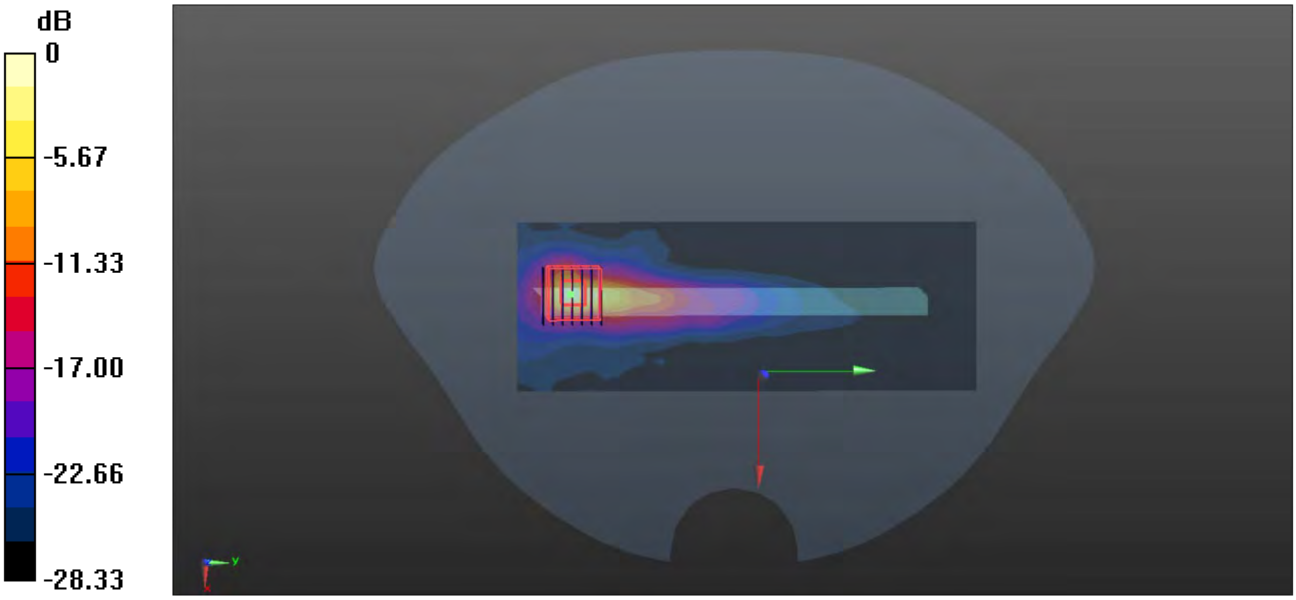
Ch149/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.632 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 75.0 W/kg

SAR(1 g) = 10.8 W/kg; SAR(10 g) = 2.12 W/kg

Maximum value of SAR (measured) = 28.7 W/kg



0 dB = 28.7 W/kg

69-Left Head with Cheek on 39 Channel in Bluetooth mode

Date: 2021.07.30

Communication System Band: WLAN(a); Frequency: 2441 MHz;Duty Cycle: 1:1.301

Medium parameters used: f = 2441 MHz; σ = 1.782 S/m; ε_r = 39.089; ρ = 1000 kg/m^3

Phantom section: Left Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0790 W/kg

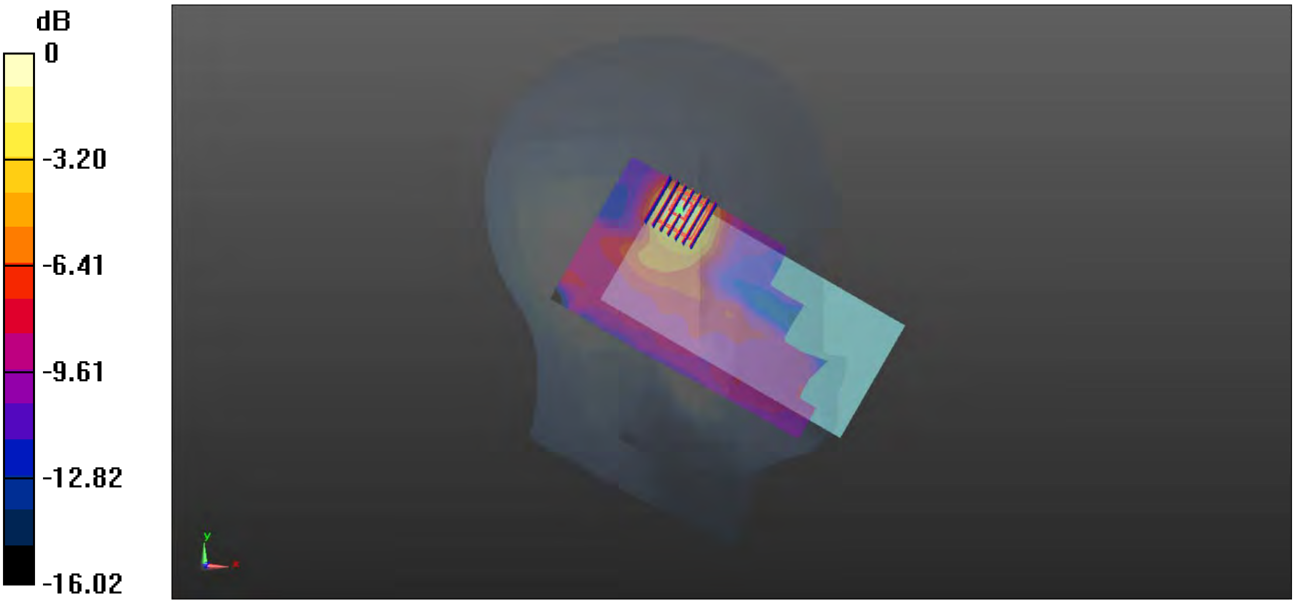
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.705 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.158 W/kg

SAR(1 g) = 0.068 W/kg; SAR(10 g) = 0.031 W/kg

Maximum value of SAR (measured) = 0.0761 W/kg



0 dB = 0.0761 W/kg

70-Body Plane with Back Side 15mm on 39 Channel in Bluetooth Mode

Date: 2021.07.30

Communication System Band: Bluetooth; Frequency: 2441 MHz;Duty Cycle: 1:1.301

Medium parameters used: f = 2441 MHz; $\sigma = 1.782$ S/m; $\varepsilon_r = 39.089$; $\rho = 1000$ kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0173 W/kg

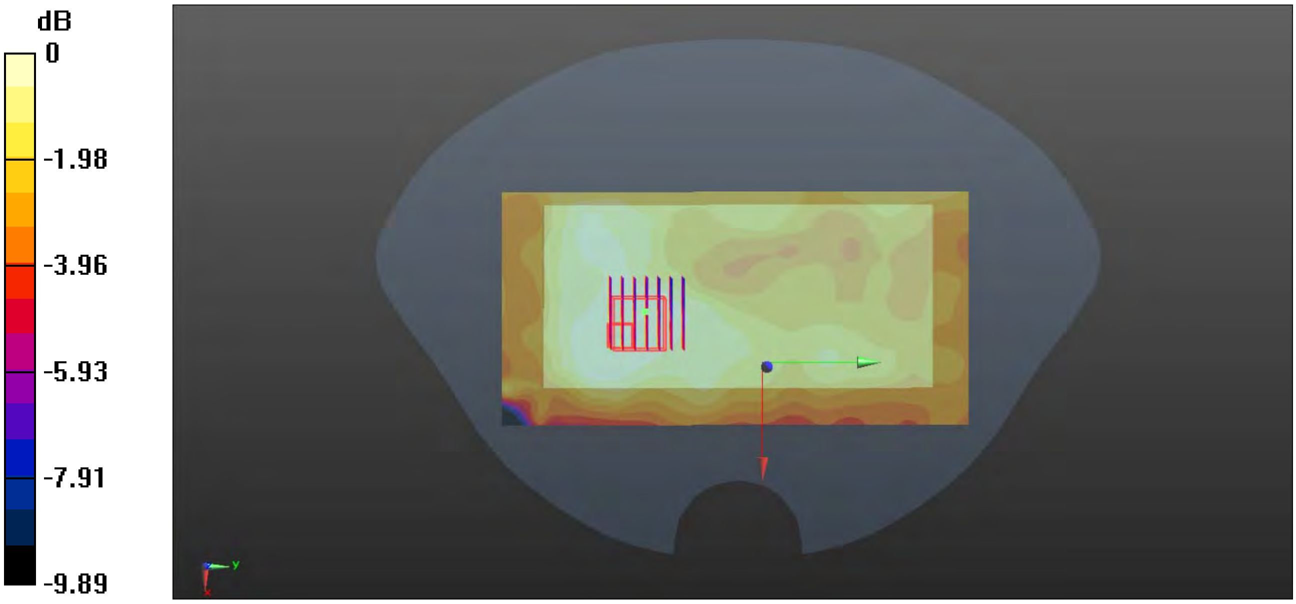
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.240 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.0230 W/kg

SAR(1 g) = 0.010 W/kg; SAR(10 g) = 0.00651 W/kg

Maximum value of SAR (measured) = 0.0124 W/kg



0 dB = 0.0124 W/kg

71-Body Plane with Back Side 10mm on 39 Channel in Bluetooth Mode

Date: 2021.07.30

Communication System Band: WLAN(a); Frequency: 2441 MHz;Duty Cycle: 1:1.301

Medium parameters used: f = 2441 MHz; σ = 1.782 S/m; ε_r = 39.089; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.7 Liquid Temperature:21.4

DASY4 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.54, 7.54, 7.54); Calibrated: 2020.11.30;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2020.11.06
- Phantom: SAM Right 1392; Serial: TP1392
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0254 W/kg

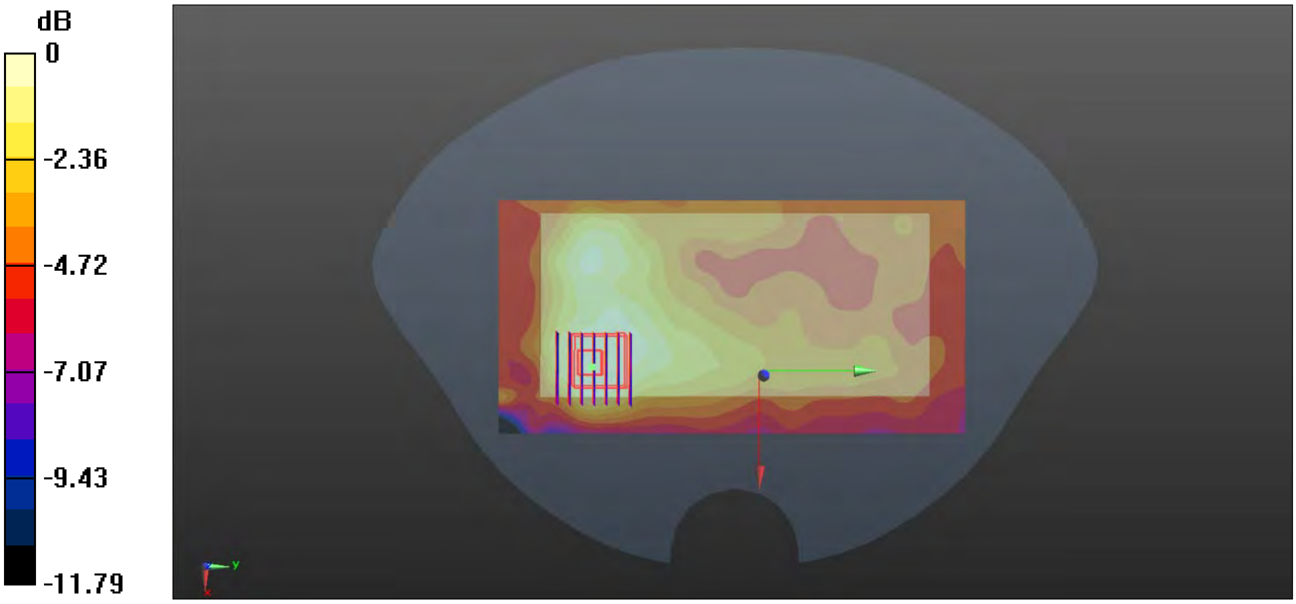
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.204 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0480 W/kg

SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.0221 W/kg



0 dB = 0.0221 W/kg

ANNEX D SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ2170620-AS-1.pdf”.

ANNEX E EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2170620-AW.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “CALIBRATION REPORT-SAR.pdf”.

--END OF REPORT--

8.1 GSM Output Power

GSM-Full Powe-Ant.13

GSM850 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Division Factors	Frame-Averaged power			Tune-up Power(dBm）
Channel	128	190	251			128	190	251	
GSM (GMSK, 1-Slot)	33.04	33.06	33.12	34.00	9.19	23.85	23.87	23.93	24.81
GPRS (GMSK, 1-Slot)	33.00	33.01	33.07	34.00	9.19	23.81	23.82	23.88	24.81
GPRS (GMSK, 2-Slots)	31.69	31.70	31.78	32.00	6.13	25.56	25.57	25.65	**25.87**
GPRS (GMSK, 3-Slots)	29.74	29.71	29.78	30.00	4.42	25.32	25.29	25.36	25.58
GPRS (GMSK, 4-Slots)	27.75	27.71	27.77	28.00	3.18	24.57	24.53	24.59	24.82
EGPRS (8PSK, 1-Slot)	26.98	27.22	27.02	28.00	9.19	17.79	18.03	17.83	18.81
EGPRS (8PSK, 2-Slots)	24.89	24.84	24.75	26.00	6.13	18.76	18.71	18.62	19.87
EGPRS (8PSK, 3-Slots)	22.67	22.71	22.65	24.00	4.42	18.25	18.29	18.23	19.58
EGPRS (8PSK, 4-Slots)	20.51	20.46	20.47	22.00	3.18	17.33	17.28	17.29	18.82
GSM1900 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Division Factors	Frame-Averaged			Tune-up Power(dBm）
Channel	512	661	810			512	661	810	
GSM (GMSK, 1-Slot)	30.21	30.28	30.30	31.00	9.19	21.02	21.09	21.11	21.81
GPRS (GMSK, 1-Slot)	30.20	30.26	30.27	31.00	9.19	21.01	21.07	21.08	21.81
GPRS (GMSK, 2-Slots)	28.13	28.13	28.11	29.00	6.13	22.00	22.00	21.98	**22.87**
GPRS (GMSK, 3-Slots)	26.05	26.05	26.02	27.00	4.42	21.63	21.63	21.60	22.58
GPRS (GMSK, 4-Slots)	24.07	24.06	24.02	25.00	3.18	20.89	20.88	20.84	21.82
EGPRS (8PSK, 1-Slot)	25.84	25.77	25.82	27.00	9.19	16.65	16.58	16.63	17.81
EGPRS (8PSK, 2-Slots)	23.67	23.70	23.71	25.00	6.13	17.54	17.57	17.58	18.87
EGPRS (8PSK, 3-Slots)	21.59	21.67	21.66	23.00	4.42	17.17	17.25	17.24	18.58
EGPRS (8PSK, 4-Slots)	19.49	19.59	19.99	21.00	3.18	16.31	16.41	16.81	17.82

GSM-DSI 2-Ant.13

GSM850 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Frame-Averaged power			Tune-up Power(dBm）
Channel	128	190	251		128	190	251	
GSM (GMSK, 1-Slot)	31.30	31.31	31.37	32.50	22.11	22.12	22.18	**23.31**
GPRS (GMSK, 1-Slot)	31.21	31.33	31.35	32.50	22.02	22.14	22.16	**23.31**
GPRS (GMSK, 2-Slots)	28.16	28.13	28.19	28.50	22.03	22.00	22.06	22.37
GPRS (GMSK, 3-Slots)	26.12	26.10	26.16	26.50	21.70	21.68	21.74	22.08
GPRS (GMSK, 4-Slots)	25.08	25.05	25.12	25.50	21.90	21.87	21.94	22.32
EGPRS (8PSK, 1-Slot)	25.16	25.08	25.09	26.50	15.97	15.89	15.90	17.31
EGPRS (8PSK, 2-Slots)	22.29	22.41	22.37	22.50	16.16	16.28	16.24	16.37
EGPRS (8PSK, 3-Slots)	20.45	20.39	20.44	20.50	16.03	15.97	16.02	16.08
EGPRS (8PSK, 4-Slots)	18.29	18.12	19.05	19.50	15.11	14.94	15.87	16.32
GSM1900 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Frame-Averaged			Tune-up Power(dBm）
Channel	512	661	810		512	661	810	
GSM (GMSK, 1-Slot)	23.86	23.82	23.80	24.50	14.67	14.63	14.61	**15.31**
GPRS (GMSK, 1-Slot)	23.79	23.80	23.84	24.50	14.60	14.61	14.65	**15.31**
GPRS (GMSK, 2-Slots)	20.28	20.28	20.27	21.00	14.15	14.15	14.14	14.87
GPRS (GMSK, 3-Slots)	18.27	18.22	18.23	19.50	13.85	13.80	13.81	15.08
GPRS (GMSK, 4-Slots)	17.32	17.27	17.25	18.00	14.14	14.09	14.07	14.82
EGPRS (8PSK, 1-Slot)	19.75	19.64	19.91	20.50	10.56	10.45	10.72	11.31
EGPRS (8PSK, 2-Slots)	16.09	16.03	16.05	17.00	9.96	9.90	9.92	10.87
EGPRS (8PSK, 3-Slots)	14.34	14.44	14.41	15.50	9.92	10.02	9.99	11.08
EGPRS (8PSK, 4-Slots)	12.74	12.70	12.80	14.00	9.56	9.52	9.62	10.82

GSM-DSI 3-Ant.13

GSM850 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Frame-Averaged power			Tune-up Power(dBm）
Channel	128	190	251		128	190	251	
GSM (GMSK, 1-Slot)	30.24	30.30	30.33	31.50	21.05	21.11	21.14	**22.31**
GPRS (GMSK, 1-Slot)	30.26	30.28	30.37	31.50	21.07	21.09	21.18	**22.31**
GPRS (GMSK, 2-Slots)	27.09	27.05	27.13	27.50	20.96	20.92	21.00	21.37
GPRS (GMSK, 3-Slots)	25.07	25.04	25.11	25.50	20.65	20.62	20.69	21.08
GPRS (GMSK, 4-Slots)	24.17	24.12	24.20	24.50	20.99	20.94	21.02	21.32
EGPRS (8PSK, 1-Slot)	24.21	24.12	24.05	25.50	15.02	14.93	14.86	16.31
EGPRS (8PSK, 2-Slots)	20.76	20.63	20.67	21.50	14.63	14.50	14.54	15.37
EGPRS (8PSK, 3-Slots)	18.38	18.44	18.32	19.50	13.96	14.02	13.90	15.08
EGPRS (8PSK, 4-Slots)	17.19	17.21	17.08	18.50	14.01	14.03	13.90	15.32
GSM1900 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Frame-Averaged			Tune-up Power(dBm）
Channel	512	661	810		512	661	810	
GSM (GMSK, 1-Slot)	22.34	22.35	22.21	23.50	13.15	13.16	13.02	14.31
GPRS (GMSK, 1-Slot)	22.23	22.29	22.26	23.50	13.04	13.10	13.07	14.31
GPRS (GMSK, 2-Slots)	19.26	19.31	19.30	20.50	13.13	13.18	13.17	14.37
GPRS (GMSK, 3-Slots)	17.79	17.77	17.68	19.00	13.37	13.35	13.26	**14.58**
GPRS (GMSK, 4-Slots)	16.42	16.42	16.40	17.00	13.24	13.24	13.22	13.82
EGPRS (8PSK, 1-Slot)	18.43	18.67	18.36	19.50	9.24	9.48	9.17	10.31
EGPRS (8PSK, 2-Slots)	15.48	15.54	15.23	16.50	9.35	9.41	9.10	10.37
EGPRS (8PSK, 3-Slots)	13.70	13.86	13.86	15.00	9.28	9.44	9.44	10.58
EGPRS (8PSK, 4-Slots)	11.88	11.95	11.88	13.00	8.70	8.77	8.70	9.82

GSM-DSI 4-Ant.13

GSM850 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Frame-Averaged power			Tune-up Power(dBm）
Channel	128	190	251		128	190	251	
GSM (GMSK, 1-Slot)	33.04	33.06	33.12	34.00	23.85	23.87	23.93	24.81
GPRS (GMSK, 1-Slot)	33.00	33.01	33.07	34.00	23.81	23.82	23.88	24.81
GPRS (GMSK, 2-Slots)	31.69	31.70	31.78	32.00	25.56	25.57	25.65	**25.87**
GPRS (GMSK, 3-Slots)	29.74	29.71	29.78	30.00	25.32	25.29	25.36	25.58
GPRS (GMSK, 4-Slots)	27.75	27.71	27.77	28.00	24.57	24.53	24.59	24.82
EGPRS (8PSK, 1-Slot)	26.98	27.22	27.02	28.00	17.79	18.03	17.83	18.81
EGPRS (8PSK, 2-Slots)	24.89	24.84	24.75	26.00	18.76	18.71	18.62	19.87
EGPRS (8PSK, 3-Slots)	22.67	22.71	22.65	24.00	18.25	18.29	18.23	19.58
EGPRS (8PSK, 4-Slots)	20.51	20.46	20.47	22.00	17.33	17.28	17.29	18.82
GSM1900 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Frame-Averaged			Tune-up Power(dBm）
Channel	512	661	810		512	661	810	
GSM (GMSK, 1-Slot)	28.46	28.47	28.47	29.00	19.27	19.28	19.28	19.81
GPRS (GMSK, 1-Slot)	28.48	28.51	28.48	29.00	19.29	19.32	19.29	19.81
GPRS (GMSK, 2-Slots)	24.32	24.48	24.34	25.50	18.19	18.35	18.21	19.37
GPRS (GMSK, 3-Slots)	22.50	22.40	22.39	23.50	18.08	17.98	17.97	19.08
GPRS (GMSK, 4-Slots)	22.40	22.38	22.35	23.00	19.22	19.20	19.17	**19.82**
EGPRS (8PSK, 1-Slot)	24.29	24.19	24.38	25.00	15.10	15.00	15.19	15.81
EGPRS (8PSK, 2-Slots)	20.37	20.50	20.55	21.50	14.24	14.37	14.42	15.37
EGPRS (8PSK, 3-Slots)	18.27	18.30	18.33	19.50	13.85	13.88	13.91	15.08
EGPRS (8PSK, 4-Slots)	17.85	17.88	17.87	19.00	14.67	14.70	14.69	15.82

GSM-DSI 5-Ant.13

GSM850 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Frame-Averaged power			Tune-up Power(dBm）
Channel	128	190	251		128	190	251	
GSM (GMSK, 1-Slot)	33.04	33.06	33.12	34.00	23.85	23.87	23.93	24.81
GPRS (GMSK, 1-Slot)	33.00	33.01	33.07	34.00	23.81	23.82	23.88	24.81
GPRS (GMSK, 2-Slots)	31.69	31.70	31.78	32.00	25.56	25.57	25.65	**25.87**
GPRS (GMSK, 3-Slots)	29.74	29.71	29.78	30.00	25.32	25.29	25.36	25.58
GPRS (GMSK, 4-Slots)	27.75	27.71	27.77	28.00	24.57	24.53	24.59	24.82
EGPRS (8PSK, 1-Slot)	26.98	27.22	27.02	28.00	17.79	18.03	17.83	18.81
EGPRS (8PSK, 2-Slots)	24.89	24.84	24.75	26.00	18.76	18.71	18.62	19.87
EGPRS (8PSK, 3-Slots)	22.67	22.71	22.65	24.00	18.25	18.29	18.23	19.58
EGPRS (8PSK, 4-Slots)	20.51	20.46	20.47	22.00	17.33	17.28	17.29	18.82
GSM1900 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Frame-Averaged			Tune-up Power(dBm）
Channel	512	661	810		512	661	810	
GSM (GMSK, 1-Slot)	26.95	26.94	26.94	27.50	17.76	17.75	17.75	**18.31**
GPRS (GMSK, 1-Slot)	26.94	26.93	26.92	27.50	17.75	17.74	17.73	**18.31**
GPRS (GMSK, 2-Slots)	22.95	22.84	22.89	24.00	16.82	16.71	16.76	17.87
GPRS (GMSK, 3-Slots)	21.36	21.40	21.38	22.50	16.94	16.98	16.96	18.08
GPRS (GMSK, 4-Slots)	20.37	20.37	20.35	21.00	17.19	17.19	17.17	17.82
EGPRS (8PSK, 1-Slot)	22.68	22.73	22.69	23.50	13.49	13.54	13.50	14.31
EGPRS (8PSK, 2-Slots)	19.64	19.15	19.67	20.00	13.51	13.02	13.54	13.87
EGPRS (8PSK, 3-Slots)	17.90	17.30	17.92	18.50	13.48	12.88	13.50	14.08
EGPRS (8PSK, 4-Slots)	15.89	16.07	16.35	17.00	12.71	12.89	13.17	13.82

GSM-DSI 6-Ant.13

GSM850 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Frame-Averaged power			Tune-up Power(dBm）
Channel	128	190	251		128	190	251	
GSM (GMSK, 1-Slot)	33.04	33.06	33.12	34.00	23.85	23.87	23.93	24.81
GPRS (GMSK, 1-Slot)	33.00	33.01	33.07	34.00	23.81	23.82	23.88	24.81
GPRS (GMSK, 2-Slots)	31.69	31.70	31.78	32.00	25.56	25.57	25.65	**25.87**
GPRS (GMSK, 3-Slots)	29.74	29.71	29.78	30.00	25.32	25.29	25.36	25.58
GPRS (GMSK, 4-Slots)	27.75	27.71	27.77	28.00	24.57	24.53	24.59	24.82
EGPRS (8PSK, 1-Slot)	26.98	27.22	27.02	28.00	17.79	18.03	17.83	18.81
EGPRS (8PSK, 2-Slots)	24.89	24.84	24.75	26.00	18.76	18.71	18.62	19.87
EGPRS (8PSK, 3-Slots)	22.67	22.71	22.65	24.00	18.25	18.29	18.23	19.58
EGPRS (8PSK, 4-Slots)	20.51	20.46	20.47	22.00	17.33	17.28	17.29	18.82
GSM1900 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Frame-Averaged			Tune-up Power(dBm）
Channel	512	661	810		512	661	810	
GSM (GMSK, 1-Slot)	26.95	26.94	26.94	27.50	17.76	17.75	17.75	**18.31**
GPRS (GMSK, 1-Slot)	26.94	26.93	26.92	27.50	17.75	17.74	17.73	**18.31**
GPRS (GMSK, 2-Slots)	22.95	22.84	22.89	24.00	16.82	16.71	16.76	17.87
GPRS (GMSK, 3-Slots)	21.36	21.40	21.38	22.50	16.94	16.98	16.96	18.08
GPRS (GMSK, 4-Slots)	20.37	20.37	20.35	21.00	17.19	17.19	17.17	17.82
EGPRS (8PSK, 1-Slot)	22.68	22.73	22.69	23.50	13.49	13.54	13.50	14.31
EGPRS (8PSK, 2-Slots)	19.64	19.15	19.67	20.00	13.51	13.02	13.54	13.87
EGPRS (8PSK, 3-Slots)	17.90	17.30	17.92	18.50	13.48	12.88	13.50	14.08
EGPRS (8PSK, 4-Slots)	15.89	16.07	16.35	17.00	12.71	12.89	13.17	13.82

GSM-DSI 7-Ant.13

	GSM850 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Frame-Averaged power			Tune-up Power(dBm）
	Channel	128	190	251		128	190	251	
	GSM (GMSK, 1-Slot)	33.04	33.06	33.12	34.00	23.85	23.87	23.93	24.81
	GPRS (GMSK, 1-Slot)	33.00	33.01	33.07	34.00	23.81	23.82	23.88	24.81
	GPRS (GMSK, 2-Slots)	31.69	31.70	31.78	32.00	25.56	25.57	25.65	**25.87**
	GPRS (GMSK, 3-Slots)	29.74	29.71	29.78	30.00	25.32	25.29	25.36	25.58
	GPRS (GMSK, 4-Slots)	27.75	27.71	27.77	28.00	24.57	24.53	24.59	24.82
	EGPRS (8PSK, 1-Slot)	26.98	27.22	27.02	28.00	17.79	18.03	17.83	18.81
	EGPRS (8PSK, 2-Slots)	24.89	24.84	24.75	26.00	18.76	18.71	18.62	19.87
	EGPRS (8PSK, 3-Slots)	22.67	22.71	22.65	24.00	18.25	18.29	18.23	19.58
	EGPRS (8PSK, 4-Slots)	20.51	20.46	20.47	22.00	17.33	17.28	17.29	18.82
	GSM1900 Band	Burst Average Power(dBm)			Tune-up Power(dBm)	Frame-Averaged			Tune-up Power(dBm）
	Channel	512	661	810		512	661	810	
0	GSM (GMSK, 1-Slot)	30.21	30.28	30.30	31.00	21.02	21.09	21.11	21.81
0	GPRS (GMSK, 1-Slot)	30.20	30.26	30.27	31.00	21.01	21.07	21.08	21.81
0	GPRS (GMSK, 2-Slots)	28.13	28.13	28.11	29.00	22.00	22.00	21.98	**22.87**
0	GPRS (GMSK, 3-Slots)	26.05	26.05	26.02	27.00	21.63	21.63	21.60	22.58
0	GPRS (GMSK, 4-Slots)	24.07	24.06	24.02	25.00	20.89	20.88	20.84	21.82
0	EGPRS (8PSK, 1-Slot)	25.84	25.77	25.82	27.00	16.65	16.58	16.63	17.81
0	EGPRS (8PSK, 2-Slots)	23.67	23.70	23.71	25.00	17.54	17.57	17.58	18.87
0	EGPRS (8PSK, 3-Slots)	21.59	21.67	21.66	23.00	17.17	17.25	17.24	18.58
0	EGPRS (8PSK, 4-Slots)	19.49	19.59	19.99	21.00	16.31	16.41	16.81	17.82

8.1 GSM Output Power

GSM-Full Power-Ant.41

GSM850 Band	Burst Average Power(dBm)			Tune-up	Division	Frame-Averaged power			Tune-up
Channel	128	190	251	Power(dBm)	Factors	128	190	251	Power(dBm）
GSM (GMSK, 1-Slot)	32.43	32.72	32.94	34.30	9.19	23.24	23.53	23.75	25.11
GPRS (GMSK, 1-Slot)	32.60	32.85	32.93	34.30	9.19	23.41	23.66	23.74	25.11
GPRS (GMSK, 2-Slots)	31.10	31.42	31.59	32.30	6.13	24.97	25.29	25.46	**26.17**
GPRS (GMSK, 3-Slots)	29.05	29.34	29.61	30.30	4.42	24.63	24.92	25.19	25.88
GPRS (GMSK, 4-Slots)	27.01	27.33	27.61	28.30	3.18	23.83	24.15	24.43	25.12
EGPRS (8PSK, 1-Slot)	26.32	26.59	26.69	28.00	9.19	17.13	17.40	17.50	18.81
EGPRS (8PSK, 2-Slots)	24.03	24.15	24.61	26.00	6.13	17.90	18.02	18.48	19.87
EGPRS (8PSK, 3-Slots)	22.18	22.32	22.42	24.00	4.42	17.76	17.90	18.00	19.58
EGPRS (8PSK, 4-Slots)	20.22	20.29	20.50	22.00	3.18	17.04	17.11	17.32	18.82

GSM-Full Power-Ant.31

GSM1900 Band	Burst Average Power(dBm)			Tune-up	Division	Frame-Averaged			Tune-up
Channel	512	661	810	Power(dBm)	Factors	512	661	810	Power(dBm）
GSM (GMSK, 1-Slot)	29.99	30.08	30.03	31.00	9.19	20.80	20.89	20.84	21.81
GPRS (GMSK, 1-Slot)	29.89	29.96	30.04	31.00	9.19	20.70	20.77	20.85	21.81
GPRS (GMSK, 2-Slots)	27.50	27.83	27.86	29.00	6.13	21.37	21.70	21.73	**22.87**
GPRS (GMSK, 3-Slots)	25.41	25.78	25.92	27.00	4.42	20.99	21.36	21.50	22.58
GPRS (GMSK, 4-Slots)	23.43	23.78	23.92	25.00	3.18	20.25	20.60	20.74	21.82
EGPRS (8PSK, 1-Slot)	25.46	25.69	26.02	27.00	9.19	16.27	16.50	16.83	17.81
EGPRS (8PSK, 2-Slots)	23.59	23.72	23.95	25.00	6.13	17.46	17.59	17.82	18.87
EGPRS (8PSK, 3-Slots)	21.36	21.65	21.79	23.00	4.42	16.94	17.23	17.37	18.58
EGPRS (8PSK, 4-Slots)	19.34	19.58	19.82	21.00	3.18	16.16	16.40	16.64	17.82

GSM-DSI 2-Ant.41

GSM850 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power			Tune-up
Channel	128	190	251	Power(dBm)	128	190	251	Power(dBm）
GSM (GMSK, 1-Slot)	32.43	32.72	32.94	34.30	23.24	23.53	23.75	25.11
GPRS (GMSK, 1-Slot)	32.60	32.85	32.93	34.30	23.41	23.66	23.74	25.11
GPRS (GMSK, 2-Slots)	31.10	31.42	31.59	32.30	24.97	25.29	25.46	**26.17**
GPRS (GMSK, 3-Slots)	29.05	29.34	29.61	30.30	24.63	24.92	25.19	25.88
GPRS (GMSK, 4-Slots)	27.01	27.33	27.61	28.30	23.83	24.15	24.43	25.12
EGPRS (8PSK, 1-Slot)	26.32	26.59	26.69	28.00	17.13	17.40	17.50	18.81
EGPRS (8PSK, 2-Slots)	24.03	24.15	24.61	26.00	17.90	18.02	18.48	19.87
EGPRS (8PSK, 3-Slots)	22.18	22.32	22.42	24.00	17.76	17.90	18.00	19.58
EGPRS (8PSK, 4-Slots)	20.22	20.29	20.50	22.00	17.04	17.11	17.32	18.82

GSM-DSI 2-Ant.31

GSM1900 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged			Tune-up
Channel	512	661	810	Power(dBm)	512	661	810	Power(dBm）
GSM (GMSK, 1-Slot)	29.99	30.08	30.03	31.00	20.80	20.89	20.84	21.81
GPRS (GMSK, 1-Slot)	29.89	29.96	30.04	31.00	20.70	20.77	20.85	21.81
GPRS (GMSK, 2-Slots)	27.50	27.83	27.86	29.00	21.37	21.70	21.73	**22.87**
GPRS (GMSK, 3-Slots)	25.41	25.78	25.92	27.00	20.99	21.36	21.50	22.58
GPRS (GMSK, 4-Slots)	23.43	23.78	23.92	25.00	20.25	20.60	20.74	21.82
EGPRS (8PSK, 1-Slot)	25.46	25.69	26.02	27.00	16.27	16.50	16.83	17.81
EGPRS (8PSK, 2-Slots)	23.59	23.72	23.95	25.00	17.46	17.59	17.82	18.87
EGPRS (8PSK, 3-Slots)	21.36	21.65	21.79	23.00	16.94	17.23	17.37	18.58
EGPRS (8PSK, 4-Slots)	19.34	19.58	19.82	21.00	16.16	16.40	16.64	17.82

GSM-DSI 3-Ant.41

GSM850 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power			Tune-up
Channel	128	190	251	Power(dBm)	128	190	251	Power(dBm）
GSM (GMSK, 1-Slot)	32.43	32.72	32.94	34.30	23.24	23.53	23.75	25.11
GPRS (GMSK, 1-Slot)	32.60	32.85	32.93	34.30	23.41	23.66	23.74	25.11
GPRS (GMSK, 2-Slots)	31.10	31.42	31.59	32.30	24.97	25.29	25.46	**26.17**
GPRS (GMSK, 3-Slots)	29.05	29.34	29.61	30.30	24.63	24.92	25.19	25.88
GPRS (GMSK, 4-Slots)	27.01	27.33	27.61	28.30	23.83	24.15	24.43	25.12
EGPRS (8PSK, 1-Slot)	26.32	26.59	26.69	28.00	17.13	17.40	17.50	18.81
EGPRS (8PSK, 2-Slots)	24.03	24.15	24.61	26.00	17.90	18.02	18.48	19.87
EGPRS (8PSK, 3-Slots)	22.18	22.32	22.42	24.00	17.76	17.90	18.00	19.58
EGPRS (8PSK, 4-Slots)	20.22	20.29	20.50	22.00	17.04	17.11	17.32	18.82

GSM-DSI 3-Ant.31

GSM1900 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged			Tune-up
Channel	512	661	810	Power(dBm)	512	661	810	Power(dBm）
GSM (GMSK, 1-Slot)	29.99	30.08	30.03	31.00	20.80	20.89	20.84	21.81
GPRS (GMSK, 1-Slot)	29.89	29.96	30.04	31.00	20.70	20.77	20.85	21.81
GPRS (GMSK, 2-Slots)	27.50	27.83	27.86	29.00	21.37	21.70	21.73	**22.87**
GPRS (GMSK, 3-Slots)	25.41	25.78	25.92	27.00	20.99	21.36	21.50	22.58
GPRS (GMSK, 4-Slots)	23.43	23.78	23.92	25.00	20.25	20.60	20.74	21.82
EGPRS (8PSK, 1-Slot)	25.46	25.69	26.02	27.00	16.27	16.50	16.83	17.81
EGPRS (8PSK, 2-Slots)	23.59	23.72	23.95	25.00	17.46	17.59	17.82	18.87
EGPRS (8PSK, 3-Slots)	21.36	21.65	21.79	23.00	16.94	17.23	17.37	18.58
EGPRS (8PSK, 4-Slots)	19.34	19.58	19.82	21.00	16.16	16.40	16.64	17.82

GSM-DSI 4-Ant.41

GSM850 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power			Tune-up
Channel	128	190	251	Power(dBm)	128	190	251	Power(dBm）
GSM (GMSK, 1-Slot)	32.43	32.72	32.94	34.30	23.24	23.53	23.75	25.11
GPRS (GMSK, 1-Slot)	32.60	32.85	32.93	34.30	23.41	23.66	23.74	25.11
GPRS (GMSK, 2-Slots)	31.10	31.42	31.59	32.30	24.97	25.29	25.46	**26.17**
GPRS (GMSK, 3-Slots)	29.05	29.34	29.61	30.30	24.63	24.92	25.19	25.88
GPRS (GMSK, 4-Slots)	27.01	27.33	27.61	28.30	23.83	24.15	24.43	25.12
EGPRS (8PSK, 1-Slot)	26.32	26.59	26.69	28.00	17.13	17.40	17.50	18.81
EGPRS (8PSK, 2-Slots)	24.03	24.15	24.61	26.00	17.90	18.02	18.48	19.87
EGPRS (8PSK, 3-Slots)	22.18	22.32	22.42	24.00	17.76	17.90	18.00	19.58
EGPRS (8PSK, 4-Slots)	20.22	20.29	20.50	22.00	17.04	17.11	17.32	18.82

GSM-DSI 4-Ant.31

GSM1900 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged			Tune-up
Channel	512	661	810	Power(dBm)	512	661	810	Power(dBm）
GSM (GMSK, 1-Slot)	29.99	30.08	30.03	31.00	20.80	20.89	20.84	21.81
GPRS (GMSK, 1-Slot)	29.89	29.96	30.04	31.00	20.70	20.77	20.85	21.81
GPRS (GMSK, 2-Slots)	27.50	27.83	27.86	29.00	21.37	21.70	21.73	**22.87**
GPRS (GMSK, 3-Slots)	25.41	25.78	25.92	27.00	20.99	21.36	21.50	22.58
GPRS (GMSK, 4-Slots)	23.43	23.78	23.92	25.00	20.25	20.60	20.74	21.82
EGPRS (8PSK, 1-Slot)	25.46	25.69	26.02	27.00	16.27	16.50	16.83	17.81
EGPRS (8PSK, 2-Slots)	23.59	23.72	23.95	25.00	17.46	17.59	17.82	18.87
EGPRS (8PSK, 3-Slots)	21.36	21.65	21.79	23.00	16.94	17.23	17.37	18.58
EGPRS (8PSK, 4-Slots)	19.34	19.58	19.82	21.00	16.16	16.40	16.64	17.82

GSM-DSI 5-Ant.41

GSM850 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power			Tune-up
Channel	128	190	251	Power(dBm)	128	190	251	Power(dBm）
GSM (GMSK, 1-Slot)	32.43	32.72	32.94	34.30	23.24	23.53	23.75	25.11
GPRS (GMSK, 1-Slot)	32.60	32.85	32.93	34.30	23.41	23.66	23.74	25.11
GPRS (GMSK, 2-Slots)	31.10	31.42	31.59	32.30	24.97	25.29	25.46	**26.17**
GPRS (GMSK, 3-Slots)	29.05	29.34	29.61	30.30	24.63	24.92	25.19	25.88
GPRS (GMSK, 4-Slots)	27.01	27.33	27.61	28.30	23.83	24.15	24.43	25.12
EGPRS (8PSK, 1-Slot)	26.32	26.59	26.69	28.00	17.13	17.40	17.50	18.81
EGPRS (8PSK, 2-Slots)	24.03	24.15	24.61	26.00	17.90	18.02	18.48	19.87
EGPRS (8PSK, 3-Slots)	22.18	22.32	22.42	24.00	17.76	17.90	18.00	19.58
EGPRS (8PSK, 4-Slots)	20.22	20.29	20.50	22.00	17.04	17.11	17.32	18.82

GSM-DSI 5-Ant.31

GSM1900 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged			Tune-up
Channel	512	661	810	Power(dBm)	512	661	810	Power(dBm）
GSM (GMSK, 1-Slot)	29.99	30.08	30.03	31.00	20.80	20.89	20.84	21.81
GPRS (GMSK, 1-Slot)	29.89	29.96	30.04	31.00	20.70	20.77	20.85	21.81
GPRS (GMSK, 2-Slots)	27.50	27.83	27.86	29.00	21.37	21.70	21.73	**22.87**
GPRS (GMSK, 3-Slots)	25.41	25.78	25.92	27.00	20.99	21.36	21.50	22.58
GPRS (GMSK, 4-Slots)	23.43	23.78	23.92	25.00	20.25	20.60	20.74	21.82
EGPRS (8PSK, 1-Slot)	25.46	25.69	26.02	27.00	16.27	16.50	16.83	17.81
EGPRS (8PSK, 2-Slots)	23.59	23.72	23.95	25.00	17.46	17.59	17.82	18.87
EGPRS (8PSK, 3-Slots)	21.36	21.65	21.79	23.00	16.94	17.23	17.37	18.58
EGPRS (8PSK, 4-Slots)	19.34	19.58	19.82	21.00	16.16	16.40	16.64	17.82

GSM-DSI 6-Ant.41

GSM850 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power			Tune-up
Channel	128	190	251	Power(dBm)	128	190	251	Power(dBm）
GSM (GMSK, 1-Slot)	32.43	32.72	32.94	34.30	23.24	23.53	23.75	25.11
GPRS (GMSK, 1-Slot)	32.60	32.85	32.93	34.30	23.41	23.66	23.74	25.11
GPRS (GMSK, 2-Slots)	31.10	31.42	31.59	32.30	24.97	25.29	25.46	**26.17**
GPRS (GMSK, 3-Slots)	29.05	29.34	29.61	30.30	24.63	24.92	25.19	25.88
GPRS (GMSK, 4-Slots)	27.01	27.33	27.61	28.30	23.83	24.15	24.43	25.12
EGPRS (8PSK, 1-Slot)	26.32	26.59	26.69	28.00	17.13	17.40	17.50	18.81
EGPRS (8PSK, 2-Slots)	24.03	24.15	24.61	26.00	17.90	18.02	18.48	19.87
EGPRS (8PSK, 3-Slots)	22.18	22.32	22.42	24.00	17.76	17.90	18.00	19.58
EGPRS (8PSK, 4-Slots)	20.22	20.29	20.50	22.00	17.04	17.11	17.32	18.82

GSM-DSI 6-Ant.31

GSM1900 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged			Tune-up
Channel	512	661	810	Power(dBm)	512	661	810	Power(dBm）
GSM (GMSK, 1-Slot)	29.99	30.08	30.03	31.00	20.80	20.89	20.84	21.81
GPRS (GMSK, 1-Slot)	29.89	29.96	30.04	31.00	20.70	20.77	20.85	21.81
GPRS (GMSK, 2-Slots)	27.50	27.83	27.86	29.00	21.37	21.70	21.73	**22.87**
GPRS (GMSK, 3-Slots)	25.41	25.78	25.92	27.00	20.99	21.36	21.50	22.58
GPRS (GMSK, 4-Slots)	23.43	23.78	23.92	25.00	20.25	20.60	20.74	21.82
EGPRS (8PSK, 1-Slot)	25.46	25.69	26.02	27.00	16.27	16.50	16.83	17.81
EGPRS (8PSK, 2-Slots)	23.59	23.72	23.95	25.00	17.46	17.59	17.82	18.87
EGPRS (8PSK, 3-Slots)	21.36	21.65	21.79	23.00	16.94	17.23	17.37	18.58
EGPRS (8PSK, 4-Slots)	19.34	19.58	19.82	21.00	16.16	16.40	16.64	17.82

GSM-DSI 7-Ant.41

GSM850 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power			Tune-up
Channel	128	190	251	Power(dBm)	128	190	251	Power(dBm）
GSM (GMSK, 1-Slot)	32.43	32.72	32.94	34.30	23.24	23.53	23.75	25.11
GPRS (GMSK, 1-Slot)	32.60	32.85	32.93	34.30	23.41	23.66	23.74	25.11
GPRS (GMSK, 2-Slots)	31.10	31.42	31.59	32.30	24.97	25.29	25.46	**26.17**
GPRS (GMSK, 3-Slots)	29.05	29.34	29.61	30.30	24.63	24.92	25.19	25.88
GPRS (GMSK, 4-Slots)	27.01	27.33	27.61	28.30	23.83	24.15	24.43	25.12
EGPRS (8PSK, 1-Slot)	26.32	26.59	26.69	28.00	17.13	17.40	17.50	18.81
EGPRS (8PSK, 2-Slots)	24.03	24.15	24.61	26.00	17.90	18.02	18.48	19.87
EGPRS (8PSK, 3-Slots)	22.18	22.32	22.42	24.00	17.76	17.90	18.00	19.58
EGPRS (8PSK, 4-Slots)	20.22	20.29	20.50	22.00	17.04	17.11	17.32	18.82

GSM-DSI 7-Ant.31

GSM1900 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged			Tune-up
Channel	512	661	810	Power(dBm)	512	661	810	Power(dBm）
GSM (GMSK, 1-Slot)	29.99	30.08	30.03	31.00	20.80	20.89	20.84	21.81
GPRS (GMSK, 1-Slot)	29.89	29.96	30.04	31.00	20.70	20.77	20.85	21.81
GPRS (GMSK, 2-Slots)	27.50	27.83	27.86	29.00	21.37	21.70	21.73	**22.87**
GPRS (GMSK, 3-Slots)	25.41	25.78	25.92	27.00	20.99	21.36	21.50	22.58
GPRS (GMSK, 4-Slots)	23.43	23.78	23.92	25.00	20.25	20.60	20.74	21.82
EGPRS (8PSK, 1-Slot)	25.46	25.69	26.02	27.00	16.27	16.50	16.83	17.81
EGPRS (8PSK, 2-Slots)	23.59	23.72	23.95	25.00	17.46	17.59	17.82	18.87
EGPRS (8PSK, 3-Slots)	21.36	21.65	21.79	23.00	16.94	17.23	17.37	18.58
EGPRS (8PSK, 4-Slots)	19.34	19.58	19.82	21.00	16.16	16.40	16.64	17.82

8.2 WCDMA Output Power

WCDMA-Full Power-Ant.13				
Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	23.39	23.42	**23.52**	24.50
HSDPA Subtest-1	22.41	22.42	22.55	23.50
HSDPA Subtest-2	22.60	22.44	22.59	23.50
HSDPA Subtest-3	22.12	21.96	21.95	23.00
HSDPA Subtest-4	21.76	21.91	22.08	23.00
HSUPA Subtest-1	20.31	20.19	20.12	21.00
HSUPA Subtest-2	20.31	20.47	20.55	21.50
HSUPA Subtest-3	21.48	21.43	21.41	22.50
HSUPA Subtest-4	20.06	19.95	20.01	21.00
HSUPA Subtest-5	21.22	21.37	21.22	22.50
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	23.65	23.67	**23.68**	24.50
HSDPA Subtest-1	22.88	22.71	22.65	23.50
HSDPA Subtest-2	22.79	22.75	22.72	23.50
HSDPA Subtest-3	22.10	22.26	22.16	23.00
HSDPA Subtest-4	22.26	22.21	22.28	23.00
HSUPA Subtest-1	20.37	20.50	20.35	21.00
HSUPA Subtest-2	20.67	20.72	20.69	21.50
HSUPA Subtest-3	21.84	21.74	21.60	22.50
HSUPA Subtest-4	20.33	20.31	20.28	21.00
HSUPA Subtest-5	21.55	21.68	21.83	22.50
Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	23.30	23.32	**23.38**	24.50
HSDPA Subtest-1	22.27	22.33	22.37	23.50
HSDPA Subtest-2	22.49	22.32	22.45	23.50
HSDPA Subtest-3	21.86	21.84	21.75	23.00
HSDPA Subtest-4	21.79	21.78	21.61	23.00
HSUPA Subtest-1	20.04	20.11	20.25	21.00
HSUPA Subtest-2	20.40	20.36	20.44	21.50
HSUPA Subtest-3	21.34	21.33	21.32	22.50
HSUPA Subtest-4	19.74	19.88	19.75	21.00
HSUPA Subtest-5	21.13	21.27	21.15	22.50

WCDMA-DSI 2-Ant.13				
Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	13.98	13.97	**14.08**	15.00
HSDPA Subtest-1	13.13	13.01	13.04	14.00
HSDPA Subtest-2	13.12	13.00	13.13	14.00
HSDPA Subtest-3	12.38	12.53	12.54	13.50
HSDPA Subtest-4	12.62	12.49	12.64	13.50
HSUPA Subtest-1	10.99	11.02	11.02	11.50
HSUPA Subtest-2	11.00	11.03	11.08	12.00
HSUPA Subtest-3	12.17	12.05	11.89	13.00
HSUPA Subtest-4	10.68	10.59	10.47	11.50
HSUPA Subtest-5	12.01	11.94	11.93	13.00
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	**15.25**	15.24	**15.25**	16.00
HSDPA Subtest-1	14.47	14.31	14.34	15.00
HSDPA Subtest-2	14.26	14.27	14.38	15.00
HSDPA Subtest-3	13.69	13.82	13.75	14.50
HSDPA Subtest-4	13.69	13.81	13.89	14.50
HSUPA Subtest-1	12.20	12.05	12.05	12.50
HSUPA Subtest-2	12.41	12.29	12.15	13.00
HSUPA Subtest-3	13.43	13.31	13.38	14.00
HSUPA Subtest-4	11.89	11.82	11.89	12.50
HSUPA Subtest-5	13.23	13.28	13.41	14.00
Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	22.38	22.35	**22.43**	23.50
HSDPA Subtest-1	21.29	21.36	21.47	22.50
HSDPA Subtest-2	21.48	21.33	21.47	22.50
HSDPA Subtest-3	20.95	20.87	20.78	22.00
HSDPA Subtest-4	20.65	20.82	20.67	22.00
HSUPA Subtest-1	19.07	19.16	19.27	20.00
HSUPA Subtest-2	19.23	19.40	19.28	20.50
HSUPA Subtest-3	20.47	20.36	20.37	21.50
HSUPA Subtest-4	18.83	18.94	19.09	20.00
HSUPA Subtest-5	20.17	20.33	20.39	21.50

WCDMA-DSI 3-Ant.13				
Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	13.02	13.06	**13.17**	14.50
HSDPA Subtest-1	12.06	12.03	12.18	13.50
HSDPA Subtest-2	12.13	12.05	11.96	13.50
HSDPA Subtest-3	11.67	11.53	11.43	13.00
HSDPA Subtest-4	11.55	11.49	11.54	13.00
HSUPA Subtest-1	9.72	9.79	9.86	11.00
HSUPA Subtest-2	9.95	10.06	10.23	11.50
HSUPA Subtest-3	11.14	11.03	11.09	12.50
HSUPA Subtest-4	9.63	9.56	9.59	11.00
HSUPA Subtest-5	11.00	10.99	11.02	12.50
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	13.79	13.80	**13.85**	15.00
HSDPA Subtest-1	12.74	12.81	12.69	14.00
HSDPA Subtest-2	12.87	12.80	12.97	14.00
HSDPA Subtest-3	12.17	12.32	12.21	13.50
HSDPA Subtest-4	12.46	12.31	12.33	13.50
HSUPA Subtest-1	10.87	10.82	10.74	11.50
HSUPA Subtest-2	10.85	10.83	10.89	12.00
HSUPA Subtest-3	11.94	11.80	11.67	13.00
HSUPA Subtest-4	10.25	10.34	10.33	11.50
HSUPA Subtest-5	11.69	11.78	11.94	13.00
Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	20.98	21.00	**21.06**	22.50
HSDPA Subtest-1	19.99	20.01	19.96	21.50
HSDPA Subtest-2	20.15	19.98	19.90	21.50
HSDPA Subtest-3	19.63	19.54	19.64	21.00
HSDPA Subtest-4	19.57	19.54	19.68	21.00
HSUPA Subtest-1	17.94	18.04	18.19	19.00
HSUPA Subtest-2	17.88	18.03	18.02	19.50
HSUPA Subtest-3	19.08	19.03	19.02	20.50
HSUPA Subtest-4	17.46	17.56	17.60	19.00
HSUPA Subtest-5	19.17	19.01	19.10	20.50

WCDMA-DSI 4-Ant.13				
Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	18.69	18.71	**18.8**	19.50
HSDPA Subtest-1	17.74	17.67	17.67	18.50
HSDPA Subtest-2	17.55	17.65	17.51	18.50
HSDPA Subtest-3	17.08	17.23	17.14	18.00
HSDPA Subtest-4	17.02	17.15	17.07	18.00
HSUPA Subtest-1	15.59	15.46	15.44	16.00
HSUPA Subtest-2	15.79	15.72	15.72	16.50
HSUPA Subtest-3	16.60	16.74	16.58	17.50
HSUPA Subtest-4	15.31	15.24	15.20	16.00
HSUPA Subtest-5	16.80	16.65	16.49	17.50
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	20.44	20.46	**20.48**	21.00
HSDPA Subtest-1	19.43	19.46	19.36	20.00
HSDPA Subtest-2	19.46	19.50	19.47	20.00
HSDPA Subtest-3	19.12	19.01	18.87	19.50
HSDPA Subtest-4	19.04	18.99	19.08	19.50
HSUPA Subtest-1	17.21	17.24	17.40	17.50
HSUPA Subtest-2	17.31	17.48	17.44	18.00
HSUPA Subtest-3	18.43	18.48	18.43	19.00
HSUPA Subtest-4	17.16	17.00	16.86	17.50
HSUPA Subtest-5	18.32	18.45	18.51	19.00
Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	23.30	23.32	**23.38**	24.50
HSDPA Subtest-1	22.27	22.33	22.37	23.50
HSDPA Subtest-2	22.49	22.32	22.45	23.50
HSDPA Subtest-3	21.86	21.84	21.75	23.00
HSDPA Subtest-4	21.79	21.78	21.61	23.00
HSUPA Subtest-1	20.04	20.11	20.25	21.00
HSUPA Subtest-2	20.40	20.36	20.44	21.50
HSUPA Subtest-3	21.34	21.33	21.32	22.50
HSUPA Subtest-4	19.74	19.88	19.75	21.00
HSUPA Subtest-5	21.13	21.27	21.15	22.50

WCDMA-DSI 5-Ant.13				
Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	17.68	17.66	**17.79**	18.50
HSDPA Subtest-1	16.77	16.70	16.72	17.50
HSDPA Subtest-2	16.55	16.72	16.65	17.50
HSDPA Subtest-3	16.16	16.19	16.34	17.00
HSDPA Subtest-4	16.21	16.19	16.05	17.00
HSUPA Subtest-1	14.44	14.44	14.42	15.00
HSUPA Subtest-2	14.64	14.75	14.88	15.50
HSUPA Subtest-3	15.58	15.71	15.75	16.50
HSUPA Subtest-4	14.31	14.20	14.05	15.00
HSUPA Subtest-5	15.62	15.65	15.81	16.50
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	18.92	18.92	**18.95**	19.50
HSDPA Subtest-1	18.01	17.93	18.06	18.50
HSDPA Subtest-2	17.91	17.95	17.79	18.50
HSDPA Subtest-3	17.58	17.50	17.38	18.00
HSDPA Subtest-4	17.50	17.48	17.33	18.00
HSUPA Subtest-1	15.65	15.74	15.81	16.00
HSUPA Subtest-2	15.92	15.99	15.95	16.50
HSUPA Subtest-3	17.02	16.98	16.85	17.50
HSUPA Subtest-4	15.47	15.50	15.35	16.00
HSUPA Subtest-5	17.06	16.96	16.80	17.50
Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	23.30	23.32	**23.38**	24.50
HSDPA Subtest-1	22.27	22.33	22.37	23.50
HSDPA Subtest-2	22.49	22.32	22.45	23.50
HSDPA Subtest-3	21.86	21.84	21.75	23.00
HSDPA Subtest-4	21.79	21.78	21.61	23.00
HSUPA Subtest-1	20.04	20.11	20.25	21.00
HSUPA Subtest-2	20.40	20.36	20.44	21.50
HSUPA Subtest-3	21.34	21.33	21.32	22.50
HSUPA Subtest-4	19.74	19.88	19.75	21.00
HSUPA Subtest-5	21.13	21.27	21.15	22.50

WCDMA-DSI 6-Ant.13				
Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	17.68	17.66	**17.79**	18.50
HSDPA Subtest-1	16.77	16.70	16.72	17.50
HSDPA Subtest-2	16.55	16.72	16.65	17.50
HSDPA Subtest-3	16.16	16.19	16.34	17.00
HSDPA Subtest-4	16.21	16.19	16.05	17.00
HSUPA Subtest-1	14.44	14.44	14.42	15.00
HSUPA Subtest-2	14.64	14.75	14.88	15.50
HSUPA Subtest-3	15.58	15.71	15.75	16.50
HSUPA Subtest-4	14.31	14.20	14.05	15.00
HSUPA Subtest-5	15.62	15.65	15.81	16.50
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	18.92	18.92	**18.95**	19.50
HSDPA Subtest-1	18.01	17.93	18.06	18.50
HSDPA Subtest-2	17.91	17.95	17.79	18.50
HSDPA Subtest-3	17.58	17.50	17.38	18.00
HSDPA Subtest-4	17.50	17.48	17.33	18.00
HSUPA Subtest-1	15.65	15.74	15.81	16.00
HSUPA Subtest-2	15.92	15.99	15.95	16.50
HSUPA Subtest-3	17.02	16.98	16.85	17.50
HSUPA Subtest-4	15.47	15.50	15.35	16.00
HSUPA Subtest-5	17.06	16.96	16.80	17.50
Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	23.30	23.32	**23.38**	24.50
HSDPA Subtest-1	22.27	22.33	22.37	23.50
HSDPA Subtest-2	22.49	22.32	22.45	23.50
HSDPA Subtest-3	21.86	21.84	21.75	23.00
HSDPA Subtest-4	21.79	21.78	21.61	23.00
HSUPA Subtest-1	20.04	20.11	20.25	21.00
HSUPA Subtest-2	20.40	20.36	20.44	21.50
HSUPA Subtest-3	21.34	21.33	21.32	22.50
HSUPA Subtest-4	19.74	19.88	19.75	21.00
HSUPA Subtest-5	21.13	21.27	21.15	22.50

WCDMA-DSI 7-Ant.13				
Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	23.39	23.42	**23.52**	24.50
HSDPA Subtest-1	22.41	22.42	22.55	23.50
HSDPA Subtest-2	22.60	22.44	22.59	23.50
HSDPA Subtest-3	22.12	21.96	21.95	23.00
HSDPA Subtest-4	21.76	21.91	22.08	23.00
HSUPA Subtest-1	20.31	20.19	20.12	21.00
HSUPA Subtest-2	20.31	20.47	20.55	21.50
HSUPA Subtest-3	21.48	21.43	21.41	22.50
HSUPA Subtest-4	20.06	19.95	20.01	21.00
HSUPA Subtest-5	21.22	21.37	21.22	22.50
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	23.65	23.67	**23.68**	24.50
HSDPA Subtest-1	22.88	22.71	22.65	23.50
HSDPA Subtest-2	22.79	22.75	22.72	23.50
HSDPA Subtest-3	22.10	22.26	22.16	23.00
HSDPA Subtest-4	22.26	22.21	22.28	23.00
HSUPA Subtest-1	20.37	20.50	20.35	21.00
HSUPA Subtest-2	20.67	20.72	20.69	21.50
HSUPA Subtest-3	21.84	21.74	21.60	22.50
HSUPA Subtest-4	20.33	20.31	20.28	21.00
HSUPA Subtest-5	21.55	21.68	21.83	22.50
Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	23.30	23.32	**23.38**	24.50
HSDPA Subtest-1	22.27	22.33	22.37	23.50
HSDPA Subtest-2	22.49	22.32	22.45	23.50
HSDPA Subtest-3	21.86	21.84	21.75	23.00
HSDPA Subtest-4	21.79	21.78	21.61	23.00
HSUPA Subtest-1	20.04	20.11	20.25	21.00
HSUPA Subtest-2	20.40	20.36	20.44	21.50
HSUPA Subtest-3	21.34	21.33	21.32	22.50
HSUPA Subtest-4	19.74	19.88	19.75	21.00
HSUPA Subtest-5	21.13	21.27	21.15	22.50

WCDMA-Full Power-Ant.31

Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	23.26	23.20	**23.28**	24.50
HSDPA Subtest-1	22.08	22.08	22.04	23.50
HSDPA Subtest-2	22.03	22.10	22.07	23.50
HSDPA Subtest-3	21.63	21.54	21.46	23.00
HSDPA Subtest-4	21.63	21.53	21.55	23.00
HSUPA Subtest-1	19.81	19.71	19.79	21.00
HSUPA Subtest-2	20.08	19.97	19.90	21.50
HSUPA Subtest-3	20.91	20.97	20.96	22.50
HSUPA Subtest-4	19.56	19.46	19.49	21.00
HSUPA Subtest-5	20.81	20.88	20.93	22.50
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	23.37	23.39	**23.42**	24.50
HSDPA Subtest-1	22.37	22.15	22.47	23.50
HSDPA Subtest-2	22.35	22.14	22.29	23.50
HSDPA Subtest-3	22.05	21.68	22.00	23.00
HSDPA Subtest-4	21.93	21.63	21.97	23.00
HSUPA Subtest-1	20.14	19.91	20.14	21.00
HSUPA Subtest-2	20.49	20.13	20.39	21.50
HSUPA Subtest-3	21.31	21.13	21.37	22.50
HSUPA Subtest-4	19.99	19.69	19.82	21.00
HSUPA Subtest-5	21.25	21.10	21.43	22.50

WCDMA-Full Power-Ant.41

Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	23.39	23.44	**23.56**	24.50
HSDPA Subtest-1	22.48	22.41	22.49	23.50
HSDPA Subtest-2	22.43	22.40	22.40	23.50
HSDPA Subtest-3	21.98	21.90	21.86	23.00
HSDPA Subtest-4	21.92	21.88	21.96	23.00
HSUPA Subtest-1	20.20	20.23	20.33	21.00
HSUPA Subtest-2	20.60	20.46	20.50	21.50
HSUPA Subtest-3	21.49	21.46	21.54	22.50
HSUPA Subtest-4	19.98	20.02	20.11	21.00
HSUPA Subtest-5	21.43	21.40	21.33	22.50

WCDMA-DSI 2-Ant.31

Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	23.26	23.20	**23.28**	24.50
HSDPA Subtest-1	22.08	22.08	22.04	23.50
HSDPA Subtest-2	22.03	22.10	22.07	23.50
HSDPA Subtest-3	21.63	21.54	21.46	23.00
HSDPA Subtest-4	21.63	21.53	21.55	23.00
HSUPA Subtest-1	19.81	19.71	19.79	21.00
HSUPA Subtest-2	20.08	19.97	19.90	21.50
HSUPA Subtest-3	20.91	20.97	20.96	22.50
HSUPA Subtest-4	19.56	19.46	19.49	21.00
HSUPA Subtest-5	20.81	20.88	20.93	22.50
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	23.37	23.39	**23.42**	24.50
HSDPA Subtest-1	22.37	22.15	22.47	23.50
HSDPA Subtest-2	22.35	22.14	22.29	23.50
HSDPA Subtest-3	22.05	21.68	22.00	23.00
HSDPA Subtest-4	21.93	21.63	21.97	23.00
HSUPA Subtest-1	20.14	19.91	20.14	21.00
HSUPA Subtest-2	20.49	20.13	20.39	21.50
HSUPA Subtest-3	21.31	21.13	21.37	22.50
HSUPA Subtest-4	19.99	19.69	19.82	21.00
HSUPA Subtest-5	21.25	21.10	21.43	22.50

WCDMA-DSI 2-Ant.41

Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	23.39	23.44	**23.56**	24.50
HSDPA Subtest-1	22.48	22.41	22.49	23.50
HSDPA Subtest-2	22.43	22.40	22.40	23.50
HSDPA Subtest-3	21.98	21.90	21.86	23.00
HSDPA Subtest-4	21.92	21.88	21.96	23.00
HSUPA Subtest-1	20.20	20.23	20.33	21.00
HSUPA Subtest-2	20.60	20.46	20.50	21.50
HSUPA Subtest-3	21.49	21.46	21.54	22.50
HSUPA Subtest-4	19.98	20.02	20.11	21.00
HSUPA Subtest-5	21.43	21.40	21.33	22.50

WCDMA-DSI 3-Ant.31

Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	23.26	23.20	**23.28**	24.50
HSDPA Subtest-1	22.08	22.08	22.04	23.50
HSDPA Subtest-2	22.03	22.10	22.07	23.50
HSDPA Subtest-3	21.63	21.54	21.46	23.00
HSDPA Subtest-4	21.63	21.53	21.55	23.00
HSUPA Subtest-1	19.81	19.71	19.79	21.00
HSUPA Subtest-2	20.08	19.97	19.90	21.50
HSUPA Subtest-3	20.91	20.97	20.96	22.50
HSUPA Subtest-4	19.56	19.46	19.49	21.00
HSUPA Subtest-5	20.81	20.88	20.93	22.50
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	23.37	23.39	**23.42**	24.50
HSDPA Subtest-1	22.37	22.15	22.47	23.50
HSDPA Subtest-2	22.35	22.14	22.29	23.50
HSDPA Subtest-3	22.05	21.68	22.00	23.00
HSDPA Subtest-4	21.93	21.63	21.97	23.00
HSUPA Subtest-1	20.14	19.91	20.14	21.00
HSUPA Subtest-2	20.49	20.13	20.39	21.50
HSUPA Subtest-3	21.31	21.13	21.37	22.50
HSUPA Subtest-4	19.99	19.69	19.82	21.00
HSUPA Subtest-5	21.25	21.10	21.43	22.50

WCDMA-DSI 3-Ant.41

Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	23.39	23.44	**23.56**	24.50
HSDPA Subtest-1	22.48	22.41	22.49	23.50
HSDPA Subtest-2	22.43	22.40	22.40	23.50
HSDPA Subtest-3	21.98	21.90	21.86	23.00
HSDPA Subtest-4	21.92	21.88	21.96	23.00
HSUPA Subtest-1	20.20	20.23	20.33	21.00
HSUPA Subtest-2	20.60	20.46	20.50	21.50
HSUPA Subtest-3	21.49	21.46	21.54	22.50
HSUPA Subtest-4	19.98	20.02	20.11	21.00
HSUPA Subtest-5	21.43	21.40	21.33	22.50

WCDMA-DSI 4-Ant.31

Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	**20.81**	20.75	**20.81**	22.00
HSDPA Subtest-1	19.59	19.65	19.79	21.00
HSDPA Subtest-2	19.69	19.65	19.57	21.00
HSDPA Subtest-3	19.23	19.20	19.32	20.50
HSDPA Subtest-4	19.26	19.16	19.27	20.50
HSUPA Subtest-1	17.57	17.42	17.53	18.50
HSUPA Subtest-2	17.82	17.69	17.84	19.00
HSUPA Subtest-3	18.87	18.71	18.85	20.00
HSUPA Subtest-4	17.17	17.22	17.22	18.50
HSUPA Subtest-5	18.73	18.63	18.73	20.00
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	21.57	21.59	**21.62**	22.50
HSDPA Subtest-1	20.99	20.65	21.00	21.50
HSDPA Subtest-2	20.95	20.64	20.81	21.50
HSDPA Subtest-3	20.50	20.18	20.55	21.00
HSDPA Subtest-4	20.42	20.13	20.35	21.00
HSUPA Subtest-1	18.60	18.41	18.54	19.00
HSUPA Subtest-2	18.92	18.63	18.83	19.50
HSUPA Subtest-3	19.77	19.63	19.76	20.50
HSUPA Subtest-4	18.39	18.19	18.46	19.00
HSUPA Subtest-5	19.75	19.60	19.90	20.50

WCDMA-DSI 4-Ant.41

Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	23.39	23.44	**23.56**	24.50
HSDPA Subtest-1	22.48	22.41	22.49	23.50
HSDPA Subtest-2	22.43	22.40	22.40	23.50
HSDPA Subtest-3	21.98	21.90	21.86	23.00
HSDPA Subtest-4	21.92	21.88	21.96	23.00
HSUPA Subtest-1	20.20	20.23	20.33	21.00
HSUPA Subtest-2	20.60	20.46	20.50	21.50
HSUPA Subtest-3	21.49	21.46	21.54	22.50
HSUPA Subtest-4	19.98	20.02	20.11	21.00
HSUPA Subtest-5	21.43	21.40	21.33	22.50

WCDMA-DSI 5-Ant.31

Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	**20.81**	20.75	**20.81**	22.00
HSDPA Subtest-1	19.59	19.65	19.79	21.00
HSDPA Subtest-2	19.69	19.65	19.57	21.00
HSDPA Subtest-3	19.23	19.20	19.32	20.50
HSDPA Subtest-4	19.26	19.16	19.27	20.50
HSUPA Subtest-1	17.57	17.42	17.53	18.50
HSUPA Subtest-2	17.82	17.69	17.84	19.00
HSUPA Subtest-3	18.87	18.71	18.85	20.00
HSUPA Subtest-4	17.17	17.22	17.22	18.50
HSUPA Subtest-5	18.73	18.63	18.73	20.00
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	21.57	21.59	**21.62**	22.50
HSDPA Subtest-1	20.99	20.65	21.00	21.50
HSDPA Subtest-2	20.95	20.64	20.81	21.50
HSDPA Subtest-3	20.50	20.18	20.55	21.00
HSDPA Subtest-4	20.42	20.13	20.35	21.00
HSUPA Subtest-1	18.60	18.41	18.54	19.00
HSUPA Subtest-2	18.92	18.63	18.83	19.50
HSUPA Subtest-3	19.77	19.63	19.76	20.50
HSUPA Subtest-4	18.39	18.19	18.46	19.00
HSUPA Subtest-5	19.75	19.60	19.90	20.50

WCDMA-DSI 5-Ant.41

Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	23.39	23.44	**23.56**	24.50
HSDPA Subtest-1	22.48	22.41	22.49	23.50
HSDPA Subtest-2	22.43	22.40	22.40	23.50
HSDPA Subtest-3	21.98	21.90	21.86	23.00
HSDPA Subtest-4	21.92	21.88	21.96	23.00
HSUPA Subtest-1	20.20	20.23	20.33	21.00
HSUPA Subtest-2	20.60	20.46	20.50	21.50
HSUPA Subtest-3	21.49	21.46	21.54	22.50
HSUPA Subtest-4	19.98	20.02	20.11	21.00
HSUPA Subtest-5	21.43	21.40	21.33	22.50

WCDMA-DSI 6-Ant.31

Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	**20.81**	20.75	**20.81**	22.00
HSDPA Subtest-1	19.59	19.65	19.79	21.00
HSDPA Subtest-2	19.69	19.65	19.57	21.00
HSDPA Subtest-3	19.23	19.20	19.32	20.50
HSDPA Subtest-4	19.26	19.16	19.27	20.50
HSUPA Subtest-1	17.57	17.42	17.53	18.50
HSUPA Subtest-2	17.82	17.69	17.84	19.00
HSUPA Subtest-3	18.87	18.71	18.85	20.00
HSUPA Subtest-4	17.17	17.22	17.22	18.50
HSUPA Subtest-5	18.73	18.63	18.73	20.00
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	21.57	21.59	**21.62**	22.50
HSDPA Subtest-1	20.99	20.65	21.00	21.50
HSDPA Subtest-2	20.95	20.64	20.81	21.50
HSDPA Subtest-3	20.50	20.18	20.55	21.00
HSDPA Subtest-4	20.42	20.13	20.35	21.00
HSUPA Subtest-1	18.60	18.41	18.54	19.00
HSUPA Subtest-2	18.92	18.63	18.83	19.50
HSUPA Subtest-3	19.77	19.63	19.76	20.50
HSUPA Subtest-4	18.39	18.19	18.46	19.00
HSUPA Subtest-5	19.75	19.60	19.90	20.50

WCDMA-DSI 6-Ant.31

Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	23.39	23.44	**23.56**	24.50
HSDPA Subtest-1	22.48	22.41	22.49	23.50
HSDPA Subtest-2	22.43	22.40	22.40	23.50
HSDPA Subtest-3	21.98	21.90	21.86	23.00
HSDPA Subtest-4	21.92	21.88	21.96	23.00
HSUPA Subtest-1	20.20	20.23	20.33	21.00
HSUPA Subtest-2	20.60	20.46	20.50	21.50
HSUPA Subtest-3	21.49	21.46	21.54	22.50
HSUPA Subtest-4	19.98	20.02	20.11	21.00
HSUPA Subtest-5	21.43	21.40	21.33	22.50

WCDMA-DSI 7-Ant.31

Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
RMC 12.2Kbps	**20.81**	20.75	**20.81**	22.00
HSDPA Subtest-1	19.59	19.65	19.79	21.00
HSDPA Subtest-2	19.69	19.65	19.57	21.00
HSDPA Subtest-3	19.23	19.20	19.32	20.50
HSDPA Subtest-4	19.26	19.16	19.27	20.50
HSUPA Subtest-1	17.57	17.42	17.53	18.50
HSUPA Subtest-2	17.82	17.69	17.84	19.00
HSUPA Subtest-3	18.87	18.71	18.85	20.00
HSUPA Subtest-4	17.17	17.22	17.22	18.50
HSUPA Subtest-5	18.73	18.63	18.73	20.00
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
RMC 12.2Kbps	21.57	21.59	**21.62**	22.50
HSDPA Subtest-1	20.99	20.65	21.00	21.50
HSDPA Subtest-2	20.95	20.64	20.81	21.50
HSDPA Subtest-3	20.50	20.18	20.55	21.00
HSDPA Subtest-4	20.42	20.13	20.35	21.00
HSUPA Subtest-1	18.60	18.41	18.54	19.00
HSUPA Subtest-2	18.92	18.63	18.83	19.50
HSUPA Subtest-3	19.77	19.63	19.76	20.50
HSUPA Subtest-4	18.39	18.19	18.46	19.00
HSUPA Subtest-5	19.75	19.60	19.90	20.50

WCDMA-DSI 7-Ant.41

Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
RMC 12.2Kbps	23.39	23.44	**23.56**	24.50
HSDPA Subtest-1	22.48	22.41	22.49	23.50
HSDPA Subtest-2	22.43	22.40	22.40	23.50
HSDPA Subtest-3	21.98	21.90	21.86	23.00
HSDPA Subtest-4	21.92	21.88	21.96	23.00
HSUPA Subtest-1	20.20	20.23	20.33	21.00
HSUPA Subtest-2	20.60	20.46	20.50	21.50
HSUPA Subtest-3	21.49	21.46	21.54	22.50
HSUPA Subtest-4	19.98	20.02	20.11	21.00
HSUPA Subtest-5	21.43	21.40	21.33	22.50

8.3 LTE Output Power

LTE B2-Full Power -Ant.13

Bandwidth (MHz)	RB Size	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.74	22.72	22.69	24.00
		MID	QPSK	22.89	22.90	22.88	24.00
		HIGH	QPSK	22.73	22.76	22.70	24.00
	3	LOW	QPSK	22.86	22.85	22.88	24.00
		MID	QPSK	22.86	22.92	22.93	24.00
		HIGH	QPSK	22.84	22.85	**22.94**	24.00
	6	LOW	QPSK	21.80	21.79	21.75	23.00
1.4	1	LOW	Q16	21.89	22.16	21.77	23.00
		MID	Q16	22.05	**22.30**	21.92	23.00
		HIGH	Q16	21.85	22.16	21.81	23.00
	3	LOW	Q16	21.87	22.03	22.08	23.00
		MID	Q16	21.92	22.03	22.10	23.00
		HIGH	Q16	21.89	22.05	22.13	23.00
	6	LOW	Q16	20.99	20.76	21.03	22.00
1.4	1	LOW	64QAM	20.96	21.07	20.83	22.00
		MID	64QAM	20.98	21.18	21.04	22.00
		HIGH	64QAM	20.91	21.03	20.71	22.00
	3	LOW	64QAM	20.82	21.14	21.09	22.00
		MID	64QAM	20.98	20.88	21.07	22.00
		HIGH	64QAM	20.90	21.19	21.03	22.00
	6	LOW	64QAM	20.03	19.79	20.06	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	QPSK	22.57	22.74	22.66	24.00
		MID	QPSK	23.01	22.98	**23.15**	24.00
		HIGH	QPSK	22.74	22.67	22.72	24.00
	8	LOW	QPSK	21.68	21.96	21.74	23.00
		MID	QPSK	21.84	21.87	22.00	23.00
		HIGH	QPSK	21.79	21.95	21.48	23.00
	15	LOW	QPSK	21.89	21.95	21.61	23.00
3	1	LOW	Q16	22.05	22.27	22.20	23.00
		MID	Q16	22.42	22.41	**22.47**	23.00
		HIGH	Q16	22.26	22.10	21.96	23.00
	8	LOW	Q16	20.77	21.13	20.82	22.00
		MID	Q16	20.89	20.86	21.05	22.00
		HIGH	Q16	20.93	21.02	20.53	22.00
	15	LOW	Q16	20.75	20.98	20.82	22.00
3	1	LOW	64QAM	21.26	21.03	21.15	22.00
		MID	64QAM	**21.64**	21.47	21.41	22.00
		HIGH	64QAM	21.24	20.99	21.15	22.00
	8	LOW	64QAM	19.69	20.11	19.94	21.00
		MID	64QAM	19.92	20.11	19.87	21.00
		HIGH	64QAM	20.03	20.12	19.80	21.00
	15	LOW	64QAM	19.79	19.96	19.71	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	QPSK	22.64	22.60	22.73	24.00
		MID	QPSK	23.03	22.93	**23.06**	24.00
		HIGH	QPSK	22.84	22.80	22.75	24.00
	12	LOW	QPSK	21.72	22.04	21.84	23.00
		MID	QPSK	21.93	22.06	21.90	23.00
		HIGH	QPSK	21.88	21.82	21.71	23.00
	25	LOW	QPSK	21.94	22.05	21.70	23.00
5	1	LOW	Q16	22.29	22.08	22.19	23.00
		MID	Q16	22.46	22.45	**22.49**	23.00
		HIGH	Q16	22.14	22.21	22.26	23.00
	12	LOW	Q16	20.99	20.96	20.98	22.00
		MID	Q16	21.12	20.88	21.05	22.00
		HIGH	Q16	20.97	20.83	20.76	22.00
	25	LOW	Q16	21.04	21.14	20.83	22.00
5	1	LOW	64QAM	21.11	21.03	20.97	22.00
		MID	64QAM	**21.59**	21.43	21.35	22.00
		HIGH	64QAM	21.13	21.07	20.97	22.00
	12	LOW	64QAM	19.95	19.89	20.02	21.00
		MID	64QAM	19.95	20.00	19.93	21.00
		HIGH	64QAM	19.98	19.84	19.77	21.00
	25	LOW	64QAM	20.04	20.02	19.82	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	QPSK	22.81	22.67	22.74	24.00
		MID	QPSK	**23.13**	22.87	22.98	24.00
		HIGH	QPSK	22.60	22.59	22.54	24.00
	25	LOW	QPSK	21.86	21.97	21.77	23.00
		MID	QPSK	21.84	22.03	22.02	23.00
		HIGH	QPSK	21.89	21.70	21.56	23.00
	50	LOW	QPSK	21.89	21.99	21.74	23.00
10	1	LOW	Q16	22.20	22.01	22.22	23.00
		MID	Q16	**22.69**	22.49	22.36	23.00
		HIGH	Q16	22.14	21.99	22.04	23.00
	25	LOW	Q16	20.74	20.95	20.78	22.00
		MID	Q16	20.86	20.87	20.87	22.00
		HIGH	Q16	20.82	21.08	20.54	22.00
	50	LOW	Q16	20.84	21.06	20.89	22.00
10	1	LOW	64QAM	21.20	21.05	21.01	22.00
		MID	64QAM	**21.62**	21.33	21.29	22.00
		HIGH	64QAM	21.41	21.17	21.23	22.00
	25	LOW	64QAM	19.76	19.92	19.98	21.00
		MID	64QAM	20.04	20.12	19.91	21.00
		HIGH	64QAM	19.97	19.91	19.67	21.00
	50	LOW	64QAM	20.02	19.98	19.90	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	QPSK	22.57	22.68	22.75	24.00
		MID	QPSK	**23.14**	22.96	23.13	24.00
		HIGH	QPSK	22.68	22.64	22.53	24.00
	36	LOW	QPSK	21.72	21.86	21.72	23.00
		MID	QPSK	22.01	22.05	21.98	23.00
		HIGH	QPSK	21.80	21.89	21.74	23.00
	75	LOW	QPSK	21.88	21.82	21.72	23.00
15	1	LOW	Q16	22.21	22.19	22.10	23.00
		MID	Q16	**22.67**	22.56	22.44	23.00
		HIGH	Q16	22.41	22.03	21.96	23.00
	36	LOW	Q16	20.97	20.97	20.88	22.00
		MID	Q16	21.08	21.06	20.80	22.00
		HIGH	Q16	20.89	20.86	20.59	22.00
	75	LOW	Q16	21.01	21.06	20.79	22.00
15	1	LOW	64QAM	21.08	21.09	21.16	22.00
		MID	64QAM	**21.58**	21.38	21.40	22.00
		HIGH	64QAM	21.26	21.16	21.06	22.00
	36	LOW	64QAM	19.95	19.88	20.01	21.00
		MID	64QAM	19.94	20.12	19.91	21.00
		HIGH	64QAM	19.99	20.11	19.75	21.00
	75	LOW	64QAM	19.84	19.87	19.92	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	QPSK	22.68	22.75	22.61	24.00
		MID	QPSK	23.08	**23.10**	23.02	24.00
		HIGH	QPSK	22.73	22.71	22.63	24.00
	50	LOW	QPSK	21.82	21.91	21.81	23.00
		MID	QPSK	21.91	21.94	21.89	23.00
		HIGH	QPSK	21.84	21.85	21.63	23.00
	100	LOW	QPSK	21.85	21.92	21.76	23.00
20	1	LOW	Q16	22.19	22.13	22.12	23.00
		MID	Q16	**22.55**	22.48	22.38	23.00
		HIGH	Q16	22.27	22.14	22.11	23.00
	50	LOW	Q16	20.84	20.98	20.87	22.00
		MID	Q16	21.00	20.98	20.92	22.00
		HIGH	Q16	20.90	20.97	20.68	22.00
	100	LOW	Q16	20.90	20.99	20.82	22.00
20	1	LOW	64QAM	21.20	21.18	21.23	22.00
		MID	64QAM	21.40	**21.56**	21.33	22.00
		HIGH	64QAM	21.31	21.26	21.24	22.00
	50	LOW	64QAM	19.89	20.04	19.74	21.00
		MID	64QAM	19.89	19.89	20.01	21.00
		HIGH	64QAM	19.83	20.04	19.63	21.00
	100	LOW	64QAM	19.75	19.95	19.88	21.00

LTE B2-DSI 2 -Ant.13

Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	13.61	13.62	13.62	15.00
		MID	3	QPSK	13.80	13.81	13.78	15.00
		HIGH	5	QPSK	13.62	13.66	13.58	15.00
	3	LOW	0	QPSK	13.83	13.69	13.71	15.00
		MID	1	QPSK	13.76	13.73	13.80	15.00
		HIGH	3	QPSK	13.73	13.71	13.75	15.00
	6	LOW	0	QPSK	13.68	13.68	13.64	15.00
1.4	1	LOW	0	Q16	13.58	13.84	13.49	15.00
		MID	3	Q16	13.76	13.99	13.64	15.00
		HIGH	5	Q16	13.58	13.82	13.58	15.00
	3	LOW	0	Q16	13.77	13.88	13.88	15.00
		MID	1	Q16	13.79	13.89	13.96	15.00
		HIGH	3	Q16	13.77	13.92	**14.04**	15.00
	6	LOW	0	Q16	13.87	13.60	13.88	15.00
1.4	1	LOW	0	64QAM	13.55	13.88	13.46	15.00
		MID	12	64QAM	13.66	14.03	13.54	15.00
		HIGH	24	64QAM	13.71	13.72	13.49	15.00
	3	LOW	0	64QAM	13.70	13.78	13.77	15.00
		MID	7	64QAM	13.79	13.76	13.88	15.00
		HIGH	13	64QAM	13.82	13.84	13.98	15.00
	6	LOW	0	64QAM	13.83	13.47	13.85	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	0	QPSK	13.70	13.65	13.48	15.00
		MID	25	QPSK	13.84	13.77	13.89	15.00
		HIGH	49	QPSK	13.72	13.71	13.66	15.00
	8	LOW	0	QPSK	13.72	13.82	13.53	15.00
		MID	12	QPSK	13.68	13.57	13.60	15.00
		HIGH	25	QPSK	13.68	13.51	13.52	15.00
	15	LOW	0	QPSK	13.80	13.68	13.51	15.00
3	1	LOW	0	Q16	13.84	13.92	13.75	15.00
		MID	25	Q16	14.15	14.07	13.97	15.00
		HIGH	49	Q16	13.96	14.06	13.80	15.00
	8	LOW	0	Q16	13.73	13.89	13.54	15.00
		MID	12	Q16	13.72	13.72	13.89	15.00
		HIGH	25	Q16	13.83	13.80	13.56	15.00
	15	LOW	0	Q16	13.67	13.64	13.48	15.00
3	1	LOW	0	64QAM	13.78	13.73	13.66	15.00
		MID	25	64QAM	14.14	14.12	**14.23**	15.00
		HIGH	49	64QAM	14.02	13.99	13.98	15.00
	8	LOW	0	64QAM	13.73	13.87	13.74	15.00
		MID	12	64QAM	13.80	13.90	13.66	15.00
		HIGH	25	64QAM	13.70	13.82	13.57	15.00
	15	LOW	0	64QAM	13.86	13.65	13.69	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	0	QPSK	13.59	13.61	13.47	15.00
		MID	12	QPSK	13.87	13.84	13.87	15.00
		HIGH	24	QPSK	13.51	13.68	13.52	15.00
	12	LOW	0	QPSK	13.66	13.79	13.68	15.00
		MID	7	QPSK	13.75	13.57	13.86	15.00
		HIGH	13	QPSK	13.76	13.69	13.67	15.00
	25	LOW	0	QPSK	13.78	13.59	13.47	15.00
5	1	LOW	0	Q16	14.00	13.74	13.64	15.00
		MID	12	Q16	**14.33**	14.23	14.00	15.00
		HIGH	24	Q16	13.90	13.95	13.83	15.00
	12	LOW	0	Q16	13.74	13.84	13.76	15.00
		MID	7	Q16	13.76	13.65	13.62	15.00
		HIGH	13	Q16	13.78	13.72	13.62	15.00
	25	LOW	0	Q16	13.65	13.70	13.75	15.00
5	1	LOW	0	64QAM	14.00	13.84	13.82	15.00
		MID	12	64QAM	**14.33**	14.07	13.97	15.00
		HIGH	24	64QAM	13.83	13.79	13.81	15.00
	12	LOW	0	64QAM	13.78	13.61	13.68	15.00
		MID	7	64QAM	13.72	13.91	13.62	15.00
		HIGH	13	64QAM	13.83	13.58	13.54	15.00
	25	LOW	0	64QAM	13.66	13.87	13.48	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	0	QPSK	13.42	13.48	13.54	15.00
		MID	25	QPSK	13.79	13.82	13.74	15.00
		HIGH	49	QPSK	13.71	13.68	13.47	15.00
	25	LOW	0	QPSK	13.59	13.56	13.56	15.00
		MID	12	QPSK	13.76	13.72	13.62	15.00
		HIGH	25	QPSK	13.61	13.73	13.52	15.00
	50	LOW	0	QPSK	13.65	13.70	13.62	15.00
10	1	LOW	0	Q16	13.76	13.79	13.88	15.00
		MID	25	Q16	14.25	14.07	14.08	15.00
		HIGH	49	Q16	13.79	13.82	13.98	15.00
	25	LOW	0	Q16	13.73	13.61	13.68	15.00
		MID	12	Q16	13.70	13.93	13.64	15.00
		HIGH	25	Q16	13.86	13.67	13.50	15.00
	50	LOW	0	Q16	13.80	13.83	13.51	15.00
10	1	LOW	0	64QAM	13.88	13.75	13.93	15.00
		MID	25	64QAM	**14.31**	14.16	14.24	15.00
		HIGH	49	64QAM	13.94	13.77	13.82	15.00
	25	LOW	0	64QAM	13.82	13.74	13.51	15.00
		MID	12	64QAM	13.72	13.67	13.89	15.00
		HIGH	25	64QAM	13.83	13.73	13.44	15.00
	50	LOW	0	64QAM	13.67	13.90	13.72	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	0	QPSK	13.44	13.61	13.48	15.00
		MID	37	QPSK	13.83	13.73	13.83	15.00
		HIGH	74	QPSK	13.68	13.65	13.67	15.00
	36	LOW	0	QPSK	13.78	13.80	13.67	15.00
		MID	20	QPSK	13.91	13.87	13.69	15.00
		HIGH	39	QPSK	13.75	13.58	13.42	15.00
	75	LOW	0	QPSK	13.69	13.58	13.66	15.00
15	1	LOW	0	Q16	13.76	13.80	13.87	15.00
		MID	37	Q16	**14.30**	14.11	14.25	15.00
		HIGH	74	Q16	13.84	13.92	13.81	15.00
	36	LOW	0	Q16	13.76	13.62	13.76	15.00
		MID	20	Q16	13.82	13.87	13.75	15.00
		HIGH	39	Q16	13.67	13.54	13.53	15.00
	75	LOW	0	Q16	13.60	13.83	13.74	15.00
15	1	LOW	0	64QAM	13.90	13.90	13.81	15.00
		MID	37	64QAM	14.19	14.09	14.21	15.00
		HIGH	74	64QAM	13.98	13.88	13.79	15.00
	36	LOW	0	64QAM	13.76	13.82	13.77	15.00
		MID	20	64QAM	13.81	13.78	13.70	15.00
		HIGH	39	64QAM	13.73	13.80	13.52	15.00
	75	LOW	0	64QAM	13.69	13.73	13.75	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	0	QPSK	13.56	13.61	13.44	15.00
		MID	49	QPSK	13.91	**13.93**	13.85	15.00
		HIGH	99	QPSK	13.60	13.56	13.53	15.00
	50	LOW	0	QPSK	13.64	13.69	13.62	15.00
		MID	24	QPSK	13.74	13.79	13.71	15.00
		HIGH	50	QPSK	13.71	13.66	13.53	15.00
	100	LOW	0	QPSK	13.70	13.70	13.57	15.00
20	1	LOW	0	Q16	13.90	13.85	13.78	15.00
		MID	49	Q16	**14.24**	14.22	14.10	15.00
		HIGH	99	Q16	13.93	13.91	13.84	15.00
	50	LOW	0	Q16	13.73	13.76	13.63	15.00
		MID	24	Q16	13.85	13.79	13.75	15.00
		HIGH	50	Q16	13.75	13.68	13.51	15.00
	100	LOW	0	Q16	13.75	13.75	13.62	15.00
20	1	LOW	0	64QAM	13.86	13.89	13.79	15.00
		MID	49	64QAM	14.27	**14.28**	14.17	15.00
		HIGH	99	64QAM	14.04	13.84	13.71	15.00
	50	LOW	0	64QAM	13.66	13.78	13.66	15.00
		MID	24	64QAM	13.95	13.82	13.72	15.00
		HIGH	50	64QAM	13.76	13.65	13.63	15.00
	100	LOW	0	64QAM	13.80	13.79	13.70	15.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	12.64	12.62	12.60	14.00
		MID	3	QPSK	12.78	12.80	12.80	14.00
		HIGH	5	QPSK	12.65	12.62	12.61	14.00
	3	LOW	0	QPSK	12.76	12.71	12.74	14.00
		MID	1	QPSK	12.74	12.77	12.78	14.00
		HIGH	3	QPSK	12.75	12.71	12.78	14.00
	6	LOW	0	QPSK	12.68	12.68	12.62	14.00
1.4	1	LOW	0	Q16	12.58	12.85	12.52	14.00
		MID	3	Q16	12.80	13.01	12.61	14.00
		HIGH	5	Q16	12.60	12.86	12.55	14.00
	3	LOW	0	Q16	12.83	12.92	12.99	14.00
		MID	1	Q16	12.81	12.92	13.09	14.00
		HIGH	3	Q16	12.82	12.92	12.96	14.00
	6	LOW	0	Q16	12.89	12.66	12.90	14.00
1.4	1	LOW	0	64QAM	12.58	12.90	12.38	14.00
		MID	12	64QAM	12.73	13.09	12.48	14.00
		HIGH	24	64QAM	12.66	12.92	12.69	14.00
	3	LOW	0	64QAM	12.72	13.00	13.01	14.00
		MID	7	64QAM	12.77	12.96	13.18	14.00
		HIGH	13	64QAM	12.74	12.94	12.87	14.00
	6	LOW	0	64QAM	12.96	12.63	12.85	14.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	0	QPSK	12.43	12.52	12.47	14.00
		MID	25	QPSK	12.97	12.75	12.69	14.00
		HIGH	49	QPSK	12.51	12.53	12.62	14.00
	8	LOW	0	QPSK	12.65	12.72	12.60	14.00
		MID	12	QPSK	12.83	12.79	12.66	14.00
		HIGH	25	QPSK	12.77	12.62	12.45	14.00
	15	LOW	0	QPSK	12.63	12.55	12.45	14.00
3	1	LOW	0	Q16	12.74	12.89	12.71	14.00
		MID	25	Q16	13.39	13.16	13.03	14.00
		HIGH	49	Q16	12.97	12.90	12.84	14.00
	8	LOW	0	Q16	12.72	12.80	12.80	14.00
		MID	12	Q16	12.75	12.84	12.75	14.00
		HIGH	25	Q16	12.82	12.70	12.51	14.00
	15	LOW	0	Q16	12.80	12.73	12.76	14.00
3	1	LOW	0	64QAM	12.86	12.82	12.75	14.00
		MID	25	64QAM	13.30	13.16	13.10	14.00
		HIGH	49	64QAM	12.87	13.00	12.78	14.00
	8	LOW	0	64QAM	12.82	12.88	12.74	14.00
		MID	12	64QAM	12.75	12.71	12.72	14.00
		HIGH	25	64QAM	12.75	12.63	12.53	14.00
	15	LOW	0	64QAM	12.60	12.64	12.72	14.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	0	QPSK	12.68	12.60	12.45	14.00
		MID	12	QPSK	12.87	12.81	12.93	14.00
		HIGH	24	QPSK	12.75	12.69	12.33	14.00
	12	LOW	0	QPSK	12.76	12.65	12.54	14.00
		MID	7	QPSK	12.67	12.54	12.57	14.00
		HIGH	13	QPSK	12.84	12.67	12.64	14.00
	25	LOW	0	QPSK	12.56	12.74	12.43	14.00
5	1	LOW	0	Q16	12.74	13.03	12.75	14.00
		MID	12	Q16	13.27	13.26	13.07	14.00
		HIGH	24	Q16	12.93	13.03	12.74	14.00
	12	LOW	0	Q16	12.86	12.89	12.51	14.00
		MID	7	Q16	12.95	12.77	12.82	14.00
		HIGH	13	Q16	12.94	12.84	12.50	14.00
	25	LOW	0	Q16	12.66	12.66	12.65	14.00
5	1	LOW	0	64QAM	13.00	12.79	12.77	14.00
		MID	12	64QAM	13.17	13.09	12.98	14.00
		HIGH	24	64QAM	12.88	12.90	12.75	14.00
	12	LOW	0	64QAM	12.80	12.65	12.52	14.00
		MID	7	64QAM	12.78	12.91	12.86	14.00
		HIGH	13	64QAM	12.93	12.85	12.68	14.00
	25	LOW	0	64QAM	12.65	12.70	12.61	14.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	0	QPSK	12.65	12.49	12.51	14.00
		MID	25	QPSK	12.85	12.77	12.70	14.00
		HIGH	49	QPSK	12.61	12.51	12.35	14.00
	25	LOW	0	QPSK	12.58	12.63	12.76	14.00
		MID	12	QPSK	12.70	12.67	12.60	14.00
		HIGH	25	QPSK	12.63	12.77	12.51	14.00
	50	LOW	0	QPSK	12.83	12.58	12.60	14.00
10	1	LOW	0	Q16	12.85	12.83	12.94	14.00
		MID	25	Q16	13.30	13.24	13.15	14.00
		HIGH	49	Q16	12.81	12.81	12.80	14.00
	25	LOW	0	Q16	12.64	12.84	12.71	14.00
		MID	12	Q16	13.00	12.86	12.62	14.00
		HIGH	25	Q16	12.72	12.63	12.48	14.00
	50	LOW	0	Q16	12.84	12.74	12.76	14.00
10	1	LOW	0	64QAM	12.87	12.95	12.93	14.00
		MID	25	64QAM	13.14	13.25	13.11	14.00
		HIGH	49	64QAM	13.07	12.91	12.74	14.00
	25	LOW	0	64QAM	12.66	12.67	12.76	14.00
		MID	12	64QAM	12.79	12.79	12.84	14.00
		HIGH	25	64QAM	12.91	12.72	12.45	14.00
	50	LOW	0	64QAM	12.70	12.90	12.69	14.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	0	QPSK	12.45	12.58	12.40	14.00
		MID	37	QPSK	13.01	12.81	12.90	14.00
		HIGH	74	QPSK	12.55	12.68	12.59	14.00
	36	LOW	0	QPSK	12.62	12.87	12.49	14.00
		MID	20	QPSK	12.76	12.67	12.78	14.00
		HIGH	39	QPSK	12.59	12.74	12.48	14.00
	75	LOW	0	QPSK	12.86	12.55	12.50	14.00
15	1	LOW	0	Q16	12.93	12.82	12.79	14.00
		MID	37	Q16	13.40	13.20	13.11	14.00
		HIGH	74	Q16	12.81	12.91	12.92	14.00
	36	LOW	0	Q16	12.68	12.81	12.80	14.00
		MID	20	Q16	12.80	12.81	12.76	14.00
		HIGH	39	Q16	12.81	12.67	12.55	14.00
	75	LOW	0	Q16	12.79	12.85	12.76	14.00
15	1	LOW	0	64QAM	12.89	12.93	12.79	14.00
		MID	37	64QAM	13.33	13.24	13.13	14.00
		HIGH	74	64QAM	12.79	12.96	12.79	14.00
	36	LOW	0	64QAM	12.72	12.83	12.67	14.00
		MID	20	64QAM	12.72	12.75	12.73	14.00
		HIGH	39	64QAM	12.74	12.65	12.67	14.00
	75	LOW	0	64QAM	12.79	12.60	12.51	14.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	0	QPSK	12.55	12.63	12.45	14.00
		MID	49	QPSK	12.89	**12.95**	12.84	14.00
		HIGH	99	QPSK	12.62	12.57	12.48	14.00
	50	LOW	0	QPSK	12.66	12.73	12.64	14.00
		MID	24	QPSK	12.75	12.79	12.71	14.00
		HIGH	50	QPSK	12.71	12.70	12.50	14.00
	100	LOW	0	QPSK	12.71	12.68	12.58	14.00
20	1	LOW	0	Q16	12.88	12.89	12.79	14.00
		MID	49	Q16	**13.26**	13.23	13.13	14.00
		HIGH	99	Q16	12.94	12.91	12.83	14.00
	50	LOW	0	Q16	12.71	12.78	12.66	14.00
		MID	24	Q16	12.86	12.76	12.73	14.00
		HIGH	50	Q16	12.79	12.72	12.53	14.00
	100	LOW	0	Q16	12.75	12.75	12.62	14.00
20	1	LOW	0	64QAM	12.98	12.91	12.88	14.00
		MID	49	64QAM	**13.25**	13.16	13.22	14.00
		HIGH	99	64QAM	12.89	12.88	12.78	14.00
	50	LOW	0	64QAM	12.83	12.74	12.72	14.00
		MID	24	64QAM	12.84	12.85	12.62	14.00
		HIGH	50	64QAM	12.70	12.84	12.43	14.00
	100	LOW	0	64QAM	12.82	12.90	12.75	14.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	18.80	18.82	18.80	20.00
		MID	3	QPSK	18.97	18.92	19.02	20.00
		HIGH	5	QPSK	18.80	18.85	18.76	20.00
	3	LOW	0	QPSK	18.93	18.91	19.03	20.00
		MID	1	QPSK	18.94	18.93	18.98	20.00
		HIGH	3	QPSK	18.90	18.97	18.98	20.00
	6	LOW	0	QPSK	18.84	18.87	18.81	20.00
1.4	1	LOW	0	Q16	18.84	19.07	18.77	20.00
		MID	3	Q16	18.95	19.26	18.91	20.00
		HIGH	5	Q16	18.77	19.09	18.82	20.00
	3	LOW	0	Q16	19.01	19.09	19.21	20.00
		MID	1	Q16	19.00	19.20	19.25	20.00
		HIGH	3	Q16	19.01	19.18	19.26	20.00
	6	LOW	0	Q16	19.05	18.84	19.12	20.00
1.4	1	LOW	0	64QAM	18.78	19.01	18.67	20.00
		MID	12	64QAM	19.06	19.40	18.87	20.00
		HIGH	24	64QAM	18.90	19.20	18.67	20.00
	3	LOW	0	64QAM	19.09	19.04	19.14	20.00
		MID	7	64QAM	18.99	19.30	19.30	20.00
		HIGH	13	64QAM	18.95	19.05	19.22	20.00
	6	LOW	0	64QAM	18.93	18.93	19.18	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	0	QPSK	18.83	18.98	18.73	20.00
		MID	25	QPSK	19.04	19.11	18.96	20.00
		HIGH	49	QPSK	18.73	18.80	18.78	20.00
	8	LOW	0	QPSK	18.87	18.91	19.03	20.00
		MID	12	QPSK	18.99	18.85	19.05	20.00
		HIGH	25	QPSK	18.99	18.80	18.74	20.00
	15	LOW	0	QPSK	18.88	18.88	18.69	20.00
3	1	LOW	0	Q16	19.25	19.24	18.93	20.00
		MID	25	Q16	19.36	19.37	19.30	20.00
		HIGH	49	Q16	19.14	19.18	19.21	20.00
	8	LOW	0	Q16	19.01	19.09	18.97	20.00
		MID	12	Q16	18.96	19.04	19.17	20.00
		HIGH	25	Q16	19.12	18.91	18.83	20.00
	15	LOW	0	Q16	19.06	19.06	18.81	20.00
3	1	LOW	0	64QAM	18.99	19.20	19.17	20.00
		MID	25	64QAM	19.52	19.40	19.42	20.00
		HIGH	49	64QAM	19.22	19.15	19.24	20.00
	8	LOW	0	64QAM	18.90	19.10	18.91	20.00
		MID	12	64QAM	19.00	19.02	18.89	20.00
		HIGH	25	64QAM	18.92	18.95	18.77	20.00
	15	LOW	0	64QAM	19.03	18.95	18.77	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	0	QPSK	18.67	18.86	18.54	20.00
		MID	12	QPSK	18.99	19.01	19.04	20.00
		HIGH	24	QPSK	18.70	18.83	18.60	20.00
	12	LOW	0	QPSK	18.97	18.95	18.87	20.00
		MID	7	QPSK	18.99	19.02	18.89	20.00
		HIGH	13	QPSK	18.81	18.80	18.68	20.00
	25	LOW	0	QPSK	19.06	18.85	18.89	20.00
5	1	LOW	0	Q16	19.13	18.99	18.90	20.00
		MID	12	Q16	19.29	19.26	19.42	20.00
		HIGH	24	Q16	19.13	19.30	19.01	20.00
	12	LOW	0	Q16	18.99	18.97	19.05	20.00
		MID	7	Q16	19.10	18.91	18.93	20.00
		HIGH	13	Q16	19.07	18.98	18.83	20.00
	25	LOW	0	Q16	19.00	19.01	18.98	20.00
5	1	LOW	0	64QAM	19.02	19.24	19.00	20.00
		MID	12	64QAM	19.42	19.35	19.22	20.00
		HIGH	24	64QAM	19.09	19.05	19.04	20.00
	12	LOW	0	64QAM	18.88	18.89	19.15	20.00
		MID	7	64QAM	19.20	18.99	19.11	20.00
		HIGH	13	64QAM	19.01	18.90	18.93	20.00
	25	LOW	0	64QAM	18.91	19.06	18.88	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	0	QPSK	18.79	18.74	18.77	20.00
		MID	25	QPSK	19.01	19.18	18.99	20.00
		HIGH	49	QPSK	18.85	18.79	18.59	20.00
	25	LOW	0	QPSK	18.84	18.86	18.84	20.00
		MID	12	QPSK	18.88	18.83	18.89	20.00
		HIGH	25	QPSK	19.07	18.90	18.65	20.00
	50	LOW	0	QPSK	18.95	18.96	18.85	20.00
10	1	LOW	0	Q16	18.97	19.06	19.00	20.00
		MID	25	Q16	19.14	19.36	19.22	20.00
		HIGH	49	Q16	19.18	19.05	19.03	20.00
	25	LOW	0	Q16	19.06	18.93	19.13	20.00
		MID	12	Q16	19.04	19.02	18.98	20.00
		HIGH	25	Q16	19.13	19.11	18.67	20.00
	50	LOW	0	Q16	19.06	18.87	18.99	20.00
10	1	LOW	0	64QAM	19.22	19.20	19.12	20.00
		MID	25	64QAM	19.41	19.37	19.45	20.00
		HIGH	49	64QAM	19.33	19.25	19.06	20.00
	25	LOW	0	64QAM	18.93	18.97	18.95	20.00
		MID	12	64QAM	19.19	19.00	18.99	20.00
		HIGH	25	64QAM	18.89	19.18	18.65	20.00
	50	LOW	0	64QAM	18.95	19.16	18.87	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	0	QPSK	18.69	18.97	18.67	20.00
		MID	37	QPSK	19.17	19.16	19.03	20.00
		HIGH	74	QPSK	18.80	18.67	18.66	20.00
	36	LOW	0	QPSK	18.83	18.93	18.90	20.00
		MID	20	QPSK	18.99	18.99	19.13	20.00
		HIGH	39	QPSK	19.05	18.87	18.58	20.00
	75	LOW	0	QPSK	18.86	18.95	18.80	20.00
15	1	LOW	0	Q16	19.03	19.09	19.00	20.00
		MID	37	Q16	19.46	19.34	19.46	20.00
		HIGH	74	Q16	19.14	19.08	19.09	20.00
	36	LOW	0	Q16	18.92	19.12	18.95	20.00
		MID	20	Q16	18.93	19.09	19.17	20.00
		HIGH	39	Q16	18.87	19.05	18.89	20.00
	75	LOW	0	Q16	19.13	19.10	18.96	20.00
15	1	LOW	0	64QAM	18.98	19.21	19.03	20.00
		MID	37	64QAM	19.35	19.57	19.27	20.00
		HIGH	74	64QAM	19.10	18.86	19.08	20.00
	36	LOW	0	64QAM	19.02	18.98	18.88	20.00
		MID	20	64QAM	19.18	19.06	18.94	20.00
		HIGH	39	64QAM	18.88	19.14	18.82	20.00
	75	LOW	0	64QAM	19.05	19.11	19.05	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	0	QPSK	18.73	18.86	18.68	20.00
		MID	49	QPSK	**19.11**	**19.11**	19.06	20.00
		HIGH	99	QPSK	18.85	18.81	18.74	20.00
	50	LOW	0	QPSK	18.86	18.98	18.91	20.00
		MID	24	QPSK	19.01	19.04	19.02	20.00
		HIGH	50	QPSK	18.95	18.93	18.73	20.00
	100	LOW	0	QPSK	18.92	18.96	18.84	20.00
20	1	LOW	0	Q16	19.10	19.10	19.05	20.00
		MID	49	Q16	**19.49**	19.45	19.36	20.00
		HIGH	99	Q16	19.20	19.18	19.15	20.00
	50	LOW	0	Q16	18.96	19.02	19.00	20.00
		MID	24	Q16	19.07	19.03	19.02	20.00
		HIGH	50	Q16	18.99	19.03	18.79	20.00
	100	LOW	0	Q16	18.99	19.02	18.91	20.00
20	1	LOW	0	64QAM	19.13	19.10	19.10	20.00
		MID	49	64QAM	**19.55**	19.45	19.22	20.00
		HIGH	99	64QAM	19.32	19.14	19.02	20.00
	50	LOW	0	64QAM	19.10	19.00	19.05	20.00
		MID	24	64QAM	19.13	19.06	19.01	20.00
		HIGH	50	64QAM	18.85	18.90	18.94	20.00
	100	LOW	0	64QAM	19.05	18.89	18.82	20.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	17.37	17.39	17.30	18.50
		MID	3	QPSK	17.55	17.51	17.51	18.50
		HIGH	5	QPSK	17.32	17.42	17.30	18.50
	3	LOW	0	QPSK	17.46	17.44	17.49	18.50
		MID	1	QPSK	17.48	17.50	17.52	18.50
		HIGH	3	QPSK	17.43	17.42	17.52	18.50
	6	LOW	0	QPSK	17.40	17.41	17.39	18.50
1.4	1	LOW	0	Q16	17.30	17.56	17.34	18.50
		MID	3	Q16	17.62	17.76	17.51	18.50
		HIGH	5	Q16	17.41	17.63	17.35	18.50
	3	LOW	0	Q16	17.56	17.64	17.84	18.50
		MID	1	Q16	17.65	17.69	17.75	18.50
		HIGH	3	Q16	17.54	17.59	17.78	18.50
	6	LOW	0	Q16	17.58	17.39	17.65	18.50
1.4	1	LOW	0	64QAM	17.15	17.46	17.30	18.50
		MID	12	64QAM	17.63	17.86	17.41	18.50
		HIGH	24	64QAM	17.47	17.66	17.37	18.50
	3	LOW	0	64QAM	17.56	17.78	17.76	18.50
		MID	7	64QAM	17.53	17.83	17.73	18.50
		HIGH	13	64QAM	17.48	17.56	17.76	18.50
	6	LOW	0	64QAM	17.52	17.39	17.58	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	0	QPSK	17.26	17.49	17.11	18.50
		MID	25	QPSK	17.72	17.63	17.54	18.50
		HIGH	49	QPSK	17.31	17.23	17.30	18.50
	8	LOW	0	QPSK	17.25	17.55	17.46	18.50
		MID	12	QPSK	17.51	17.40	17.43	18.50
		HIGH	25	QPSK	17.65	17.36	17.40	18.50
	15	LOW	0	QPSK	17.49	17.55	17.48	18.50
3	1	LOW	0	Q16	17.70	17.55	17.44	18.50
		MID	25	Q16	18.08	17.97	18.00	18.50
		HIGH	49	Q16	17.61	17.70	17.68	18.50
	8	LOW	0	Q16	17.51	17.69	17.34	18.50
		MID	12	Q16	17.65	17.50	17.49	18.50
		HIGH	25	Q16	17.57	17.46	17.30	18.50
	15	LOW	0	Q16	17.44	17.48	17.50	18.50
3	1	LOW	0	64QAM	17.54	17.55	17.50	18.50
		MID	25	64QAM	18.17	17.91	18.03	18.50
		HIGH	49	64QAM	17.58	17.70	17.63	18.50
	8	LOW	0	64QAM	17.36	17.62	17.41	18.50
		MID	12	64QAM	17.57	17.59	17.67	18.50
		HIGH	25	64QAM	17.60	17.52	17.32	18.50
	15	LOW	0	64QAM	17.44	17.52	17.50	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	0	QPSK	17.18	17.29	17.19	18.50
		MID	12	QPSK	17.73	17.61	17.69	18.50
		HIGH	24	QPSK	17.22	17.31	17.29	18.50
	12	LOW	0	QPSK	17.40	17.36	17.41	18.50
		MID	7	QPSK	17.38	17.52	17.34	18.50
		HIGH	13	QPSK	17.55	17.45	17.24	18.50
	25	LOW	0	QPSK	17.53	17.35	17.38	18.50
5	1	LOW	0	Q16	17.60	17.68	17.53	18.50
		MID	12	Q16	18.00	18.10	17.95	18.50
		HIGH	24	Q16	17.52	17.67	17.55	18.50
	12	LOW	0	Q16	17.54	17.47	17.41	18.50
		MID	7	Q16	17.70	17.60	17.68	18.50
		HIGH	13	Q16	17.42	17.57	17.16	18.50
	25	LOW	0	Q16	17.62	17.55	17.42	18.50
5	1	LOW	0	64QAM	17.64	17.69	17.58	18.50
		MID	12	64QAM	18.16	18.10	17.96	18.50
		HIGH	24	64QAM	17.64	17.62	17.59	18.50
	12	LOW	0	64QAM	17.33	17.70	17.37	18.50
		MID	7	64QAM	17.66	17.53	17.49	18.50
		HIGH	13	64QAM	17.55	17.37	17.25	18.50
	25	LOW	0	64QAM	17.39	17.39	17.49	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	0	QPSK	17.17	17.37	17.08	18.50
		MID	25	QPSK	17.80	17.55	17.59	18.50
		HIGH	49	QPSK	17.44	17.33	17.17	18.50
	25	LOW	0	QPSK	17.33	17.60	17.49	18.50
		MID	12	QPSK	17.42	17.51	17.53	18.50
		HIGH	25	QPSK	17.47	17.43	17.40	18.50
	50	LOW	0	QPSK	17.47	17.58	17.41	18.50
10	1	LOW	0	Q16	17.60	17.75	17.50	18.50
		MID	25	Q16	18.12	17.87	17.94	18.50
		HIGH	49	Q16	17.75	17.71	17.64	18.50
	25	LOW	0	Q16	17.45	17.41	17.47	18.50
		MID	12	Q16	17.45	17.42	17.44	18.50
		HIGH	25	Q16	17.52	17.44	17.42	18.50
	50	LOW	0	Q16	17.45	17.68	17.57	18.50
10	1	LOW	0	64QAM	17.64	17.51	17.54	18.50
		MID	25	64QAM	18.09	17.94	18.06	18.50
		HIGH	49	64QAM	17.79	17.79	17.57	18.50
	25	LOW	0	64QAM	17.56	17.43	17.36	18.50
		MID	12	64QAM	17.64	17.44	17.52	18.50
		HIGH	25	64QAM	17.50	17.54	17.20	18.50
	50	LOW	0	64QAM	17.56	17.49	17.46	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	0	QPSK	17.26	17.27	17.10	18.50
		MID	37	QPSK	17.57	17.50	17.69	18.50
		HIGH	74	QPSK	17.37	17.31	17.37	18.50
	36	LOW	0	QPSK	17.25	17.59	17.29	18.50
		MID	20	QPSK	17.38	17.56	17.41	18.50
		HIGH	39	QPSK	17.62	17.34	17.16	18.50
	75	LOW	0	QPSK	17.34	17.53	17.33	18.50
15	1	LOW	0	Q16	17.56	17.70	17.45	18.50
		MID	37	Q16	17.98	17.99	17.85	18.50
		HIGH	74	Q16	17.62	17.69	17.62	18.50
	36	LOW	0	Q16	17.58	17.65	17.50	18.50
		MID	20	Q16	17.70	17.48	17.45	18.50
		HIGH	39	Q16	17.72	17.65	17.21	18.50
	75	LOW	0	Q16	17.44	17.52	17.45	18.50
15	1	LOW	0	64QAM	17.67	17.52	17.41	18.50
		MID	37	64QAM	18.03	17.87	17.96	18.50
		HIGH	74	64QAM	17.60	17.75	17.72	18.50
	36	LOW	0	64QAM	17.42	17.59	17.34	18.50
		MID	20	64QAM	17.73	17.43	17.62	18.50
		HIGH	39	64QAM	17.69	17.57	17.12	18.50
	75	LOW	0	64QAM	17.44	17.60	17.51	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	0	QPSK	17.28	17.36	17.20	18.50
		MID	49	QPSK	17.65	**17.68**	17.59	18.50
		HIGH	99	QPSK	17.35	17.33	17.25	18.50
	50	LOW	0	QPSK	17.34	17.50	17.39	18.50
		MID	24	QPSK	17.49	17.52	17.48	18.50
		HIGH	50	QPSK	17.51	17.43	17.26	18.50
	100	LOW	0	QPSK	17.42	17.48	17.36	18.50
20	1	LOW	0	Q16	17.67	17.64	17.56	18.50
		MID	49	Q16	**18.04**	17.99	17.94	18.50
		HIGH	99	Q16	17.72	17.72	17.68	18.50
	50	LOW	0	Q16	17.47	17.56	17.45	18.50
		MID	24	Q16	17.59	17.52	17.53	18.50
		HIGH	50	Q16	17.57	17.50	17.27	18.50
	100	LOW	0	Q16	17.53	17.53	17.44	18.50
20	1	LOW	0	64QAM	17.75	17.50	17.57	18.50
		MID	49	64QAM	17.90	**18.07**	17.85	18.50
		HIGH	99	64QAM	17.74	17.73	17.70	18.50
	50	LOW	0	64QAM	17.46	17.56	17.59	18.50
		MID	24	64QAM	17.61	17.45	17.45	18.50
		HIGH	50	64QAM	17.47	17.40	17.19	18.50
	100	LOW	0	64QAM	17.45	17.50	17.46	18.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	17.37	17.39	17.30	18.50
		MID	3	QPSK	17.55	17.51	17.51	18.50
		HIGH	5	QPSK	17.32	17.42	17.30	18.50
	3	LOW	0	QPSK	17.46	17.44	17.49	18.50
		MID	1	QPSK	17.48	17.50	17.52	18.50
		HIGH	3	QPSK	17.43	17.42	17.52	18.50
	6	LOW	0	QPSK	17.40	17.41	17.39	18.50
1.4	1	LOW	0	Q16	17.30	17.56	17.34	18.50
		MID	3	Q16	17.62	17.76	17.51	18.50
		HIGH	5	Q16	17.41	17.63	17.35	18.50
	3	LOW	0	Q16	17.56	17.64	17.84	18.50
		MID	1	Q16	17.65	17.69	17.75	18.50
		HIGH	3	Q16	17.54	17.59	17.78	18.50
	6	LOW	0	Q16	17.58	17.39	17.65	18.50
1.4	1	LOW	0	64QAM	17.15	17.46	17.30	18.50
		MID	12	64QAM	17.63	17.86	17.41	18.50
		HIGH	24	64QAM	17.47	17.66	17.37	18.50
	3	LOW	0	64QAM	17.56	17.78	17.76	18.50
		MID	7	64QAM	17.53	17.83	17.73	18.50
		HIGH	13	64QAM	17.48	17.56	17.76	18.50
	6	LOW	0	64QAM	17.52	17.39	17.58	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	0	QPSK	17.26	17.49	17.11	18.50
		MID	25	QPSK	17.72	17.63	17.54	18.50
		HIGH	49	QPSK	17.31	17.23	17.30	18.50
	8	LOW	0	QPSK	17.25	17.55	17.46	18.50
		MID	12	QPSK	17.51	17.40	17.43	18.50
		HIGH	25	QPSK	17.65	17.36	17.40	18.50
	15	LOW	0	QPSK	17.49	17.55	17.48	18.50
3	1	LOW	0	Q16	17.70	17.55	17.44	18.50
		MID	25	Q16	18.08	17.97	18.00	18.50
		HIGH	49	Q16	17.61	17.70	17.68	18.50
	8	LOW	0	Q16	17.51	17.69	17.34	18.50
		MID	12	Q16	17.65	17.50	17.49	18.50
		HIGH	25	Q16	17.57	17.46	17.30	18.50
	15	LOW	0	Q16	17.44	17.48	17.50	18.50
3	1	LOW	0	64QAM	17.54	17.55	17.50	18.50
		MID	25	64QAM	18.17	17.91	18.03	18.50
		HIGH	49	64QAM	17.58	17.70	17.63	18.50
	8	LOW	0	64QAM	17.36	17.62	17.41	18.50
		MID	12	64QAM	17.57	17.59	17.67	18.50
		HIGH	25	64QAM	17.60	17.52	17.32	18.50
	15	LOW	0	64QAM	17.44	17.52	17.50	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	0	QPSK	17.18	17.29	17.19	18.50
		MID	12	QPSK	17.73	17.61	17.69	18.50
		HIGH	24	QPSK	17.22	17.31	17.29	18.50
	12	LOW	0	QPSK	17.40	17.36	17.41	18.50
		MID	7	QPSK	17.38	17.52	17.34	18.50
		HIGH	13	QPSK	17.55	17.45	17.24	18.50
	25	LOW	0	QPSK	17.53	17.35	17.38	18.50
5	1	LOW	0	Q16	17.60	17.68	17.53	18.50
		MID	12	Q16	18.00	18.10	17.95	18.50
		HIGH	24	Q16	17.52	17.67	17.55	18.50
	12	LOW	0	Q16	17.54	17.47	17.41	18.50
		MID	7	Q16	17.70	17.60	17.68	18.50
		HIGH	13	Q16	17.42	17.57	17.16	18.50
	25	LOW	0	Q16	17.62	17.55	17.42	18.50
5	1	LOW	0	64QAM	17.64	17.69	17.58	18.50
		MID	12	64QAM	18.16	18.10	17.96	18.50
		HIGH	24	64QAM	17.64	17.62	17.59	18.50
	12	LOW	0	64QAM	17.33	17.70	17.37	18.50
		MID	7	64QAM	17.66	17.53	17.49	18.50
		HIGH	13	64QAM	17.55	17.37	17.25	18.50
	25	LOW	0	64QAM	17.39	17.39	17.49	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	0	QPSK	17.17	17.37	17.08	18.50
		MID	25	QPSK	17.80	17.55	17.59	18.50
		HIGH	49	QPSK	17.44	17.33	17.17	18.50
	25	LOW	0	QPSK	17.33	17.60	17.49	18.50
		MID	12	QPSK	17.42	17.51	17.53	18.50
		HIGH	25	QPSK	17.47	17.43	17.40	18.50
	50	LOW	0	QPSK	17.47	17.58	17.41	18.50
10	1	LOW	0	Q16	17.60	17.75	17.50	18.50
		MID	25	Q16	18.12	17.87	17.94	18.50
		HIGH	49	Q16	17.75	17.71	17.64	18.50
	25	LOW	0	Q16	17.45	17.41	17.47	18.50
		MID	12	Q16	17.45	17.42	17.44	18.50
		HIGH	25	Q16	17.52	17.44	17.42	18.50
	50	LOW	0	Q16	17.45	17.68	17.57	18.50
10	1	LOW	0	64QAM	17.64	17.51	17.54	18.50
		MID	25	64QAM	18.09	17.94	18.06	18.50
		HIGH	49	64QAM	17.79	17.79	17.57	18.50
	25	LOW	0	64QAM	17.56	17.43	17.36	18.50
		MID	12	64QAM	17.64	17.44	17.52	18.50
		HIGH	25	64QAM	17.50	17.54	17.20	18.50
	50	LOW	0	64QAM	17.56	17.49	17.46	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	0	QPSK	17.26	17.27	17.10	18.50
		MID	37	QPSK	17.57	17.50	17.69	18.50
		HIGH	74	QPSK	17.37	17.31	17.37	18.50
	36	LOW	0	QPSK	17.25	17.59	17.29	18.50
		MID	20	QPSK	17.38	17.56	17.41	18.50
		HIGH	39	QPSK	17.62	17.34	17.16	18.50
	75	LOW	0	QPSK	17.34	17.53	17.33	18.50
15	1	LOW	0	Q16	17.56	17.70	17.45	18.50
		MID	37	Q16	17.98	17.99	17.85	18.50
		HIGH	74	Q16	17.62	17.69	17.62	18.50
	36	LOW	0	Q16	17.58	17.65	17.50	18.50
		MID	20	Q16	17.70	17.48	17.45	18.50
		HIGH	39	Q16	17.72	17.65	17.21	18.50
	75	LOW	0	Q16	17.44	17.52	17.45	18.50
15	1	LOW	0	64QAM	17.67	17.52	17.41	18.50
		MID	37	64QAM	18.03	17.87	17.96	18.50
		HIGH	74	64QAM	17.60	17.75	17.72	18.50
	36	LOW	0	64QAM	17.42	17.59	17.34	18.50
		MID	20	64QAM	17.73	17.43	17.62	18.50
		HIGH	39	64QAM	17.69	17.57	17.12	18.50
	75	LOW	0	64QAM	17.44	17.60	17.51	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	0	QPSK	17.28	17.36	17.20	18.50
		MID	49	QPSK	17.65	**17.68**	17.59	18.50
		HIGH	99	QPSK	17.35	17.33	17.25	18.50
	50	LOW	0	QPSK	17.34	17.50	17.39	18.50
		MID	24	QPSK	17.49	17.52	17.48	18.50
		HIGH	50	QPSK	17.51	17.43	17.26	18.50
	100	LOW	0	QPSK	17.42	17.48	17.36	18.50
20	1	LOW	0	Q16	17.67	17.64	17.56	18.50
		MID	49	Q16	**18.04**	17.99	17.94	18.50
		HIGH	99	Q16	17.72	17.72	17.68	18.50
	50	LOW	0	Q16	17.47	17.56	17.45	18.50
		MID	24	Q16	17.59	17.52	17.53	18.50
		HIGH	50	Q16	17.57	17.50	17.27	18.50
	100	LOW	0	Q16	17.53	17.53	17.44	18.50
20	1	LOW	0	64QAM	17.75	17.50	17.57	18.50
		MID	49	64QAM	17.90	**18.07**	17.85	18.50
		HIGH	99	64QAM	17.74	17.73	17.70	18.50
	50	LOW	0	64QAM	17.46	17.56	17.59	18.50
		MID	24	64QAM	17.61	17.45	17.45	18.50
		HIGH	50	64QAM	17.47	17.40	17.19	18.50
	100	LOW	0	64QAM	17.45	17.50	17.46	18.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	22.74	22.72	22.69	24.00
		MID	3	QPSK	22.89	22.90	22.88	24.00
		HIGH	5	QPSK	22.73	22.76	22.70	24.00
	3	LOW	0	QPSK	22.86	22.85	22.88	24.00
		MID	1	QPSK	22.86	22.92	22.93	24.00
		HIGH	3	QPSK	22.84	22.85	**22.94**	24.00
	6	LOW	0	QPSK	21.80	21.79	21.75	23.00
1.4	1	LOW	0	Q16	21.89	22.16	21.77	23.00
		MID	3	Q16	22.05	**22.30**	21.92	23.00
		HIGH	5	Q16	21.85	22.16	21.81	23.00
	3	LOW	0	Q16	21.87	22.03	22.08	23.00
		MID	1	Q16	21.92	22.03	22.10	23.00
		HIGH	3	Q16	21.89	22.05	22.13	23.00
	6	LOW	0	Q16	20.99	20.76	21.03	22.00
1.4	1	LOW	0	64QAM	20.96	21.07	20.83	22.00
		MID	12	64QAM	20.98	21.18	21.04	22.00
		HIGH	24	64QAM	20.91	21.03	20.71	22.00
	3	LOW	0	64QAM	20.82	21.14	21.09	22.00
		MID	7	64QAM	20.98	20.88	21.07	22.00
		HIGH	13	64QAM	20.90	21.19	21.03	22.00
	6	LOW	0	64QAM	20.03	19.79	20.06	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	0	QPSK	22.57	22.74	22.66	24.00
		MID	25	QPSK	23.01	22.98	**23.15**	24.00
		HIGH	49	QPSK	22.74	22.67	22.72	24.00
	8	LOW	0	QPSK	21.68	21.96	21.74	23.00
		MID	12	QPSK	21.84	21.87	22.00	23.00
		HIGH	25	QPSK	21.79	21.95	21.48	23.00
	15	LOW	0	QPSK	21.89	21.95	21.61	23.00
3	1	LOW	0	Q16	22.05	22.27	22.20	23.00
		MID	25	Q16	22.42	22.41	**22.47**	23.00
		HIGH	49	Q16	22.26	22.10	21.96	23.00
	8	LOW	0	Q16	20.77	21.13	20.82	22.00
		MID	12	Q16	20.89	20.86	21.05	22.00
		HIGH	25	Q16	20.93	21.02	20.53	22.00
	15	LOW	0	Q16	20.75	20.98	20.82	22.00
3	1	LOW	0	64QAM	21.26	21.03	21.15	22.00
		MID	25	64QAM	**21.64**	21.47	21.41	22.00
		HIGH	49	64QAM	21.24	20.99	21.15	22.00
	8	LOW	0	64QAM	19.69	20.11	19.94	21.00
		MID	12	64QAM	19.92	20.11	19.87	21.00
		HIGH	25	64QAM	20.03	20.12	19.80	21.00
	15	LOW	0	64QAM	19.79	19.96	19.71	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	0	QPSK	22.64	22.60	22.73	24.00
		MID	12	QPSK	23.03	22.93	**23.06**	24.00
		HIGH	24	QPSK	22.84	22.80	22.75	24.00
	12	LOW	0	QPSK	21.72	22.04	21.84	23.00
		MID	7	QPSK	21.93	22.06	21.90	23.00
		HIGH	13	QPSK	21.88	21.82	21.71	23.00
	25	LOW	0	QPSK	21.94	22.05	21.70	23.00
5	1	LOW	0	Q16	22.29	22.08	22.19	23.00
		MID	12	Q16	22.46	22.45	**22.49**	23.00
		HIGH	24	Q16	22.14	22.21	22.26	23.00
	12	LOW	0	Q16	20.99	20.96	20.98	22.00
		MID	7	Q16	21.12	20.88	21.05	22.00
		HIGH	13	Q16	20.97	20.83	20.76	22.00
	25	LOW	0	Q16	21.04	21.14	20.83	22.00
5	1	LOW	0	64QAM	21.11	21.03	20.97	22.00
		MID	12	64QAM	**21.59**	21.43	21.35	22.00
		HIGH	24	64QAM	21.13	21.07	20.97	22.00
	12	LOW	0	64QAM	19.95	19.89	20.02	21.00
		MID	7	64QAM	19.95	20.00	19.93	21.00
		HIGH	13	64QAM	19.98	19.84	19.77	21.00
	25	LOW	0	64QAM	20.04	20.02	19.82	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	0	QPSK	22.81	22.67	22.74	24.00
		MID	25	QPSK	**23.13**	22.87	22.98	24.00
		HIGH	49	QPSK	22.60	22.59	22.54	24.00
	25	LOW	0	QPSK	21.86	21.97	21.77	23.00
		MID	12	QPSK	21.84	22.03	22.02	23.00
		HIGH	25	QPSK	21.89	21.70	21.56	23.00
	50	LOW	0	QPSK	21.89	21.99	21.74	23.00
10	1	LOW	0	Q16	22.20	22.01	22.22	23.00
		MID	25	Q16	**22.69**	22.49	22.36	23.00
		HIGH	49	Q16	22.14	21.99	22.04	23.00
	25	LOW	0	Q16	20.74	20.95	20.78	22.00
		MID	12	Q16	20.86	20.87	20.87	22.00
		HIGH	25	Q16	20.82	21.08	20.54	22.00
	50	LOW	0	Q16	20.84	21.06	20.89	22.00
10	1	LOW	0	64QAM	21.20	21.05	21.01	22.00
		MID	25	64QAM	**21.62**	21.33	21.29	22.00
		HIGH	49	64QAM	21.41	21.17	21.23	22.00
	25	LOW	0	64QAM	19.76	19.92	19.98	21.00
		MID	12	64QAM	20.04	20.12	19.91	21.00
		HIGH	25	64QAM	19.97	19.91	19.67	21.00
	50	LOW	0	64QAM	20.02	19.98	19.90	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	0	QPSK	22.57	22.68	22.75	24.00
		MID	37	QPSK	**23.14**	22.96	23.13	24.00
		HIGH	74	QPSK	22.68	22.64	22.53	24.00
	36	LOW	0	QPSK	21.72	21.86	21.72	23.00
		MID	20	QPSK	22.01	22.05	21.98	23.00
		HIGH	39	QPSK	21.80	21.89	21.74	23.00
	75	LOW	0	QPSK	21.88	21.82	21.72	23.00
15	1	LOW	0	Q16	22.21	22.19	22.10	23.00
		MID	37	Q16	**22.67**	22.56	22.44	23.00
		HIGH	74	Q16	22.41	22.03	21.96	23.00
	36	LOW	0	Q16	20.97	20.97	20.88	22.00
		MID	20	Q16	21.08	21.06	20.80	22.00
		HIGH	39	Q16	20.89	20.86	20.59	22.00
	75	LOW	0	Q16	21.01	21.06	20.79	22.00
15	1	LOW	0	64QAM	21.08	21.09	21.16	22.00
		MID	37	64QAM	**21.58**	21.38	21.40	22.00
		HIGH	74	64QAM	21.26	21.16	21.06	22.00
	36	LOW	0	64QAM	19.95	19.88	20.01	21.00
		MID	20	64QAM	19.94	20.12	19.91	21.00
		HIGH	39	64QAM	19.99	20.11	19.75	21.00
	75	LOW	0	64QAM	19.84	19.87	19.92	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	0	QPSK	22.68	22.75	22.61	24.00
		MID	49	QPSK	23.08	**23.10**	23.02	24.00
		HIGH	99	QPSK	22.73	22.71	22.63	24.00
	50	LOW	0	QPSK	21.82	21.91	21.81	23.00
		MID	24	QPSK	21.91	21.94	21.89	23.00
		HIGH	50	QPSK	21.84	21.85	21.63	23.00
	100	LOW	0	QPSK	21.85	21.92	21.76	23.00
20	1	LOW	0	Q16	22.19	22.13	22.12	23.00
		MID	49	Q16	**22.55**	22.48	22.38	23.00
		HIGH	99	Q16	22.27	22.14	22.11	23.00
	50	LOW	0	Q16	20.84	20.98	20.87	22.00
		MID	24	Q16	21.00	20.98	20.92	22.00
		HIGH	50	Q16	20.90	20.97	20.68	22.00
	100	LOW	0	Q16	20.90	20.99	20.82	22.00
20	1	LOW	0	64QAM	21.20	21.18	21.23	22.00
		MID	49	64QAM	21.40	**21.56**	21.33	22.00
		HIGH	99	64QAM	21.31	21.26	21.24	22.00
	50	LOW	0	64QAM	19.89	20.04	19.74	21.00
		MID	24	64QAM	19.89	19.89	20.01	21.00
		HIGH	50	64QAM	19.83	20.04	19.63	21.00
	100	LOW	0	64QAM	19.75	19.95	19.88	21.00

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Bandwidth (MHz)	RB Size	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.01	23.01	22.91	24.20
		MID	QPSK	23.14	**23.19**	23.09	24.20
		HIGH	QPSK	23.05	23.01	22.89	24.20
	3	LOW	QPSK	23.09	23.11	23.12	24.20
		MID	QPSK	23.09	23.13	23.17	24.20
		HIGH	QPSK	23.06	23.09	23.14	24.20
	6	LOW	QPSK	22.07	22.04	21.98	23.20
1.4	1	LOW	Q16	22.07	22.41	22.07	23.20
		MID	Q16	22.24	22.56	22.19	23.20
		HIGH	Q16	22.10	22.33	22.05	23.20
	3	LOW	Q16	22.15	22.26	22.28	23.20
		MID	Q16	22.14	22.39	22.37	23.20
		HIGH	Q16	22.11	22.31	22.28	23.20
	6	LOW	Q16	21.28	21.01	21.26	22.20
1.4	1	LOW	64QAM	21.05	21.47	20.93	22.20
		MID	64QAM	21.32	21.51	21.24	22.20
		HIGH	64QAM	21.13	21.48	21.20	22.20
	3	LOW	64QAM	21.03	21.26	21.42	22.20
		MID	64QAM	21.23	21.47	21.38	22.20
		HIGH	64QAM	21.18	21.45	21.36	22.20
	6	LOW	64QAM	20.27	19.95	20.26	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	QPSK	22.49	22.51	22.39	24.20
		MID	QPSK	**22.92**	22.78	22.68	24.20
		HIGH	QPSK	22.63	22.58	22.23	24.20
	8	LOW	QPSK	21.50	21.56	21.72	23.20
		MID	QPSK	21.62	21.81	21.63	23.20
		HIGH	QPSK	21.77	21.55	21.59	23.20
	15	LOW	QPSK	21.74	21.64	21.74	23.20
3	1	LOW	Q16	22.07	21.88	21.76	23.20
		MID	Q16	22.49	22.28	22.22	23.20
		HIGH	Q16	21.94	21.97	21.82	23.20
	8	LOW	Q16	20.55	20.86	20.54	22.20
		MID	Q16	20.92	20.85	20.69	22.20
		HIGH	Q16	20.72	20.77	20.68	22.20
	15	LOW	Q16	20.72	20.75	20.56	22.20
3	1	LOW	64QAM	21.06	20.98	20.80	22.20
		MID	64QAM	21.53	21.23	21.25	22.20
		HIGH	64QAM	21.16	21.05	20.90	22.20
	8	LOW	64QAM	19.63	19.60	19.49	21.20
		MID	64QAM	19.73	19.59	19.74	21.20
		HIGH	64QAM	19.69	19.56	19.49	21.20
	15	LOW	64QAM	19.66	19.67	19.75	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	QPSK	22.60	22.46	22.45	24.20
		MID	QPSK	**22.91**	22.69	22.80	24.20
		HIGH	QPSK	22.61	22.45	22.37	24.20
	12	LOW	QPSK	21.68	21.50	21.68	23.20
		MID	QPSK	21.80	21.65	21.64	23.20
		HIGH	QPSK	21.62	21.67	21.55	23.20
	25	LOW	QPSK	21.78	21.71	21.58	23.20
5	1	LOW	Q16	21.91	21.98	21.70	23.20
		MID	Q16	22.37	22.18	22.00	23.20
		HIGH	Q16	21.94	22.03	21.74	23.20
	12	LOW	Q16	20.83	20.68	20.76	22.20
		MID	Q16	20.90	20.70	20.65	22.20
		HIGH	Q16	20.72	20.75	20.62	22.20
	25	LOW	Q16	20.92	20.73	20.85	22.20
5	1	LOW	64QAM	21.03	20.99	20.86	22.20
		MID	64QAM	21.35	21.36	21.04	22.20
		HIGH	64QAM	21.22	20.95	20.75	22.20
	12	LOW	64QAM	19.75	19.61	19.58	21.20
		MID	64QAM	19.86	19.75	19.77	21.20
		HIGH	64QAM	19.69	19.66	19.47	21.20
	25	LOW	64QAM	19.85	19.78	19.61	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	QPSK	22.47	22.37	22.25	24.20
		MID	QPSK	22.80	**22.82**	22.70	24.20
		HIGH	QPSK	22.56	22.61	22.34	24.20
	25	LOW	QPSK	21.51	21.53	21.47	23.20
		MID	QPSK	21.62	21.55	21.63	23.20
		HIGH	QPSK	21.76	21.53	21.32	23.20
	50	LOW	QPSK	21.76	21.65	21.64	23.20
10	1	LOW	Q16	22.04	22.01	21.92	23.20
		MID	Q16	22.53	22.33	22.06	23.20
		HIGH	Q16	22.08	21.77	21.88	23.20
	25	LOW	Q16	20.84	20.73	20.63	22.20
		MID	Q16	20.97	20.84	20.66	22.20
		HIGH	Q16	20.89	20.69	20.46	22.20
	50	LOW	Q16	20.63	20.63	20.71	22.20
10	1	LOW	64QAM	20.92	21.14	20.83	22.20
		MID	64QAM	21.52	21.06	21.06	22.20
		HIGH	64QAM	21.13	20.99	20.99	22.20
	25	LOW	64QAM	19.59	19.83	19.75	21.20
		MID	64QAM	19.80	19.61	19.78	21.20
		HIGH	64QAM	19.71	19.75	19.51	21.20
	50	LOW	64QAM	19.79	19.55	19.66	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	QPSK	22.49	22.43	22.47	24.20
		MID	QPSK	**22.84**	22.65	22.77	24.20
		HIGH	QPSK	22.56	22.34	22.24	24.20
	36	LOW	QPSK	21.76	21.72	21.51	23.20
		MID	QPSK	21.57	21.74	21.70	23.20
		HIGH	QPSK	21.64	21.63	21.36	23.20
	75	LOW	QPSK	21.59	21.70	21.50	23.20
15	1	LOW	Q16	21.97	21.96	21.90	23.20
		MID	Q16	22.25	22.23	22.27	23.20
		HIGH	Q16	22.18	21.89	21.80	23.20
	36	LOW	Q16	20.80	20.65	20.53	22.20
		MID	Q16	20.86	20.87	20.56	22.20
		HIGH	Q16	20.78	20.80	20.66	22.20
	75	LOW	Q16	20.89	20.73	20.71	22.20
15	1	LOW	64QAM	21.15	21.02	20.81	22.20
		MID	64QAM	21.32	21.17	21.08	22.20
		HIGH	64QAM	21.12	21.02	20.75	22.20
	36	LOW	64QAM	19.79	19.86	19.63	21.20
		MID	64QAM	19.70	19.79	19.69	21.20
		HIGH	64QAM	19.71	19.50	19.61	21.20
	75	LOW	64QAM	19.63	19.56	19.63	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	QPSK	22.51	22.51	22.34	24.20
		MID	QPSK	22.81	**22.83**	22.72	24.20
		HIGH	QPSK	22.55	22.46	22.36	24.20
	50	LOW	QPSK	21.61	21.60	21.61	23.20
		MID	QPSK	21.68	21.69	21.67	23.20
		HIGH	QPSK	21.65	21.57	21.46	23.20
	100	LOW	QPSK	21.66	21.59	21.62	23.20
20	1	LOW	Q16	22.03	21.99	21.82	23.20
		MID	Q16	**22.39**	22.21	22.15	23.20
		HIGH	Q16	22.08	21.90	21.85	23.20
	50	LOW	Q16	20.70	20.74	20.64	22.20
		MID	Q16	20.82	20.74	20.69	22.20
		HIGH	Q16	20.77	20.65	20.56	22.20
	100	LOW	Q16	20.77	20.68	20.71	22.20
20	1	LOW	64QAM	20.90	21.07	20.75	22.20
		MID	64QAM	**21.53**	21.32	21.13	22.20
		HIGH	64QAM	21.13	20.89	20.84	22.20
	50	LOW	64QAM	19.83	19.82	19.60	21.20
		MID	64QAM	19.71	19.76	19.83	21.20
		HIGH	64QAM	19.86	19.52	19.60	21.20
	100	LOW	64QAM	19.90	19.82	19.71	21.20

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Bandwidth (MHz)	RB Size	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.01	23.01	22.91	24.20
		MID	QPSK	23.14	**23.19**	23.09	24.20
		HIGH	QPSK	23.05	23.01	22.89	24.20
	3	LOW	QPSK	23.09	23.11	23.12	24.20
		MID	QPSK	23.09	23.13	23.17	24.20
		HIGH	QPSK	23.06	23.09	23.14	24.20
	6	LOW	QPSK	22.07	22.04	21.98	23.20
1.4	1	LOW	Q16	22.07	22.41	22.07	23.20
		MID	Q16	22.24	22.56	22.19	23.20
		HIGH	Q16	22.10	22.33	22.05	23.20
	3	LOW	Q16	22.15	22.26	22.28	23.20
		MID	Q16	22.14	22.39	22.37	23.20
		HIGH	Q16	22.11	22.31	22.28	23.20
	6	LOW	Q16	21.28	21.01	21.26	22.20
1.4	1	LOW	64QAM	21.05	21.47	20.93	22.20
		MID	64QAM	21.32	21.51	21.24	22.20
		HIGH	64QAM	21.13	21.48	21.20	22.20
	3	LOW	64QAM	21.03	21.26	21.42	22.20
		MID	64QAM	21.23	21.47	21.38	22.20
		HIGH	64QAM	21.18	21.45	21.36	22.20
	6	LOW	64QAM	20.27	19.95	20.26	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	QPSK	22.49	22.51	22.39	24.20
		MID	QPSK	**22.92**	22.78	22.68	24.20
		HIGH	QPSK	22.63	22.58	22.23	24.20
	8	LOW	QPSK	21.50	21.56	21.72	23.20
		MID	QPSK	21.62	21.81	21.63	23.20
		HIGH	QPSK	21.77	21.55	21.59	23.20
	15	LOW	QPSK	21.74	21.64	21.74	23.20
3	1	LOW	Q16	22.07	21.88	21.76	23.20
		MID	Q16	22.49	22.28	22.22	23.20
		HIGH	Q16	21.94	21.97	21.82	23.20
	8	LOW	Q16	20.55	20.86	20.54	22.20
		MID	Q16	20.92	20.85	20.69	22.20
		HIGH	Q16	20.72	20.77	20.68	22.20
	15	LOW	Q16	20.72	20.75	20.56	22.20
3	1	LOW	64QAM	21.06	20.98	20.80	22.20
		MID	64QAM	21.53	21.23	21.25	22.20
		HIGH	64QAM	21.16	21.05	20.90	22.20
	8	LOW	64QAM	19.63	19.60	19.49	21.20
		MID	64QAM	19.73	19.59	19.74	21.20
		HIGH	64QAM	19.69	19.56	19.49	21.20
	15	LOW	64QAM	19.66	19.67	19.75	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	QPSK	22.60	22.46	22.45	24.20
		MID	QPSK	**22.91**	22.69	22.80	24.20
		HIGH	QPSK	22.61	22.45	22.37	24.20
	12	LOW	QPSK	21.68	21.50	21.68	23.20
		MID	QPSK	21.80	21.65	21.64	23.20
		HIGH	QPSK	21.62	21.67	21.55	23.20
	25	LOW	QPSK	21.78	21.71	21.58	23.20
5	1	LOW	Q16	21.91	21.98	21.70	23.20
		MID	Q16	22.37	22.18	22.00	23.20
		HIGH	Q16	21.94	22.03	21.74	23.20
	12	LOW	Q16	20.83	20.68	20.76	22.20
		MID	Q16	20.90	20.70	20.65	22.20
		HIGH	Q16	20.72	20.75	20.62	22.20
	25	LOW	Q16	20.92	20.73	20.85	22.20
5	1	LOW	64QAM	21.03	20.99	20.86	22.20
		MID	64QAM	21.35	21.36	21.04	22.20
		HIGH	64QAM	21.22	20.95	20.75	22.20
	12	LOW	64QAM	19.75	19.61	19.58	21.20
		MID	64QAM	19.86	19.75	19.77	21.20
		HIGH	64QAM	19.69	19.66	19.47	21.20
	25	LOW	64QAM	19.85	19.78	19.61	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	QPSK	22.47	22.37	22.25	24.20
		MID	QPSK	22.80	**22.82**	22.70	24.20
		HIGH	QPSK	22.56	22.61	22.34	24.20
	25	LOW	QPSK	21.51	21.53	21.47	23.20
		MID	QPSK	21.62	21.55	21.63	23.20
		HIGH	QPSK	21.76	21.53	21.32	23.20
	50	LOW	QPSK	21.76	21.65	21.64	23.20
10	1	LOW	Q16	22.04	22.01	21.92	23.20
		MID	Q16	22.53	22.33	22.06	23.20
		HIGH	Q16	22.08	21.77	21.88	23.20
	25	LOW	Q16	20.84	20.73	20.63	22.20
		MID	Q16	20.97	20.84	20.66	22.20
		HIGH	Q16	20.89	20.69	20.46	22.20
	50	LOW	Q16	20.63	20.63	20.71	22.20
10	1	LOW	64QAM	20.92	21.14	20.83	22.20
		MID	64QAM	21.52	21.06	21.06	22.20
		HIGH	64QAM	21.13	20.99	20.99	22.20
	25	LOW	64QAM	19.59	19.83	19.75	21.20
		MID	64QAM	19.80	19.61	19.78	21.20
		HIGH	64QAM	19.71	19.75	19.51	21.20
	50	LOW	64QAM	19.79	19.55	19.66	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	QPSK	22.49	22.43	22.47	24.20
		MID	QPSK	**22.84**	22.65	22.77	24.20
		HIGH	QPSK	22.56	22.34	22.24	24.20
	36	LOW	QPSK	21.76	21.72	21.51	23.20
		MID	QPSK	21.57	21.74	21.70	23.20
		HIGH	QPSK	21.64	21.63	21.36	23.20
	75	LOW	QPSK	21.59	21.70	21.50	23.20
15	1	LOW	Q16	21.97	21.96	21.90	23.20
		MID	Q16	22.25	22.23	22.27	23.20
		HIGH	Q16	22.18	21.89	21.80	23.20
	36	LOW	Q16	20.80	20.65	20.53	22.20
		MID	Q16	20.86	20.87	20.56	22.20
		HIGH	Q16	20.78	20.80	20.66	22.20
	75	LOW	Q16	20.89	20.73	20.71	22.20
15	1	LOW	64QAM	21.15	21.02	20.81	22.20
		MID	64QAM	21.32	21.17	21.08	22.20
		HIGH	64QAM	21.12	21.02	20.75	22.20
	36	LOW	64QAM	19.79	19.86	19.63	21.20
		MID	64QAM	19.70	19.79	19.69	21.20
		HIGH	64QAM	19.71	19.50	19.61	21.20
	75	LOW	64QAM	19.63	19.56	19.63	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	QPSK	22.51	22.51	22.34	24.20
		MID	QPSK	22.81	**22.83**	22.72	24.20
		HIGH	QPSK	22.55	22.46	22.36	24.20
	50	LOW	QPSK	21.61	21.60	21.61	23.20
		MID	QPSK	21.68	21.69	21.67	23.20
		HIGH	QPSK	21.65	21.57	21.46	23.20
	100	LOW	QPSK	21.66	21.59	21.62	23.20
20	1	LOW	Q16	22.03	21.99	21.82	23.20
		MID	Q16	**22.39**	22.21	22.15	23.20
		HIGH	Q16	22.08	21.90	21.85	23.20
	50	LOW	Q16	20.70	20.74	20.64	22.20
		MID	Q16	20.82	20.74	20.69	22.20
		HIGH	Q16	20.77	20.65	20.56	22.20
	100	LOW	Q16	20.77	20.68	20.71	22.20
20	1	LOW	64QAM	20.90	21.07	20.75	22.20
		MID	64QAM	**21.53**	21.32	21.13	22.20
		HIGH	64QAM	21.13	20.89	20.84	22.20
	50	LOW	64QAM	19.83	19.82	19.60	21.20
		MID	64QAM	19.71	19.76	19.83	21.20
		HIGH	64QAM	19.86	19.52	19.60	21.20
	100	LOW	64QAM	19.90	19.82	19.71	21.20

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Bandwidth (MHz)	RB Size	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.01	23.01	22.91	24.20
		MID	QPSK	23.14	**23.19**	23.09	24.20
		HIGH	QPSK	23.05	23.01	22.89	24.20
	3	LOW	QPSK	23.09	23.11	23.12	24.20
		MID	QPSK	23.09	23.13	23.17	24.20
		HIGH	QPSK	23.06	23.09	23.14	24.20
	6	LOW	QPSK	22.07	22.04	21.98	23.20
1.4	1	LOW	Q16	22.07	22.41	22.07	23.20
		MID	Q16	22.24	22.56	22.19	23.20
		HIGH	Q16	22.10	22.33	22.05	23.20
	3	LOW	Q16	22.15	22.26	22.28	23.20
		MID	Q16	22.14	22.39	22.37	23.20
		HIGH	Q16	22.11	22.31	22.28	23.20
	6	LOW	Q16	21.28	21.01	21.26	22.20
1.4	1	LOW	64QAM	21.05	21.47	20.93	22.20
		MID	64QAM	21.32	21.51	21.24	22.20
		HIGH	64QAM	21.13	21.48	21.20	22.20
	3	LOW	64QAM	21.03	21.26	21.42	22.20
		MID	64QAM	21.23	21.47	21.38	22.20
		HIGH	64QAM	21.18	21.45	21.36	22.20
	6	LOW	64QAM	20.27	19.95	20.26	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	QPSK	22.49	22.51	22.39	24.20
		MID	QPSK	**22.92**	22.78	22.68	24.20
		HIGH	QPSK	22.63	22.58	22.23	24.20
	8	LOW	QPSK	21.50	21.56	21.72	23.20
		MID	QPSK	21.62	21.81	21.63	23.20
		HIGH	QPSK	21.77	21.55	21.59	23.20
	15	LOW	QPSK	21.74	21.64	21.74	23.20
3	1	LOW	Q16	22.07	21.88	21.76	23.20
		MID	Q16	22.49	22.28	22.22	23.20
		HIGH	Q16	21.94	21.97	21.82	23.20
	8	LOW	Q16	20.55	20.86	20.54	22.20
		MID	Q16	20.92	20.85	20.69	22.20
		HIGH	Q16	20.72	20.77	20.68	22.20
	15	LOW	Q16	20.72	20.75	20.56	22.20
3	1	LOW	64QAM	21.06	20.98	20.80	22.20
		MID	64QAM	21.53	21.23	21.25	22.20
		HIGH	64QAM	21.16	21.05	20.90	22.20
	8	LOW	64QAM	19.63	19.60	19.49	21.20
		MID	64QAM	19.73	19.59	19.74	21.20
		HIGH	64QAM	19.69	19.56	19.49	21.20
	15	LOW	64QAM	19.66	19.67	19.75	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	QPSK	22.60	22.46	22.45	24.20
		MID	QPSK	**22.91**	22.69	22.80	24.20
		HIGH	QPSK	22.61	22.45	22.37	24.20
	12	LOW	QPSK	21.68	21.50	21.68	23.20
		MID	QPSK	21.80	21.65	21.64	23.20
		HIGH	QPSK	21.62	21.67	21.55	23.20
	25	LOW	QPSK	21.78	21.71	21.58	23.20
5	1	LOW	Q16	21.91	21.98	21.70	23.20
		MID	Q16	22.37	22.18	22.00	23.20
		HIGH	Q16	21.94	22.03	21.74	23.20
	12	LOW	Q16	20.83	20.68	20.76	22.20
		MID	Q16	20.90	20.70	20.65	22.20
		HIGH	Q16	20.72	20.75	20.62	22.20
	25	LOW	Q16	20.92	20.73	20.85	22.20
5	1	LOW	64QAM	21.03	20.99	20.86	22.20
		MID	64QAM	21.35	21.36	21.04	22.20
		HIGH	64QAM	21.22	20.95	20.75	22.20
	12	LOW	64QAM	19.75	19.61	19.58	21.20
		MID	64QAM	19.86	19.75	19.77	21.20
		HIGH	64QAM	19.69	19.66	19.47	21.20
	25	LOW	64QAM	19.85	19.78	19.61	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	QPSK	22.47	22.37	22.25	24.20
		MID	QPSK	22.80	**22.82**	22.70	24.20
		HIGH	QPSK	22.56	22.61	22.34	24.20
	25	LOW	QPSK	21.51	21.53	21.47	23.20
		MID	QPSK	21.62	21.55	21.63	23.20
		HIGH	QPSK	21.76	21.53	21.32	23.20
	50	LOW	QPSK	21.76	21.65	21.64	23.20
10	1	LOW	Q16	22.04	22.01	21.92	23.20
		MID	Q16	22.53	22.33	22.06	23.20
		HIGH	Q16	22.08	21.77	21.88	23.20
	25	LOW	Q16	20.84	20.73	20.63	22.20
		MID	Q16	20.97	20.84	20.66	22.20
		HIGH	Q16	20.89	20.69	20.46	22.20
	50	LOW	Q16	20.63	20.63	20.71	22.20
10	1	LOW	64QAM	20.92	21.14	20.83	22.20
		MID	64QAM	21.52	21.06	21.06	22.20
		HIGH	64QAM	21.13	20.99	20.99	22.20
	25	LOW	64QAM	19.59	19.83	19.75	21.20
		MID	64QAM	19.80	19.61	19.78	21.20
		HIGH	64QAM	19.71	19.75	19.51	21.20
	50	LOW	64QAM	19.79	19.55	19.66	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	QPSK	22.49	22.43	22.47	24.20
		MID	QPSK	**22.84**	22.65	22.77	24.20
		HIGH	QPSK	22.56	22.34	22.24	24.20
	36	LOW	QPSK	21.76	21.72	21.51	23.20
		MID	QPSK	21.57	21.74	21.70	23.20
		HIGH	QPSK	21.64	21.63	21.36	23.20
	75	LOW	QPSK	21.59	21.70	21.50	23.20
15	1	LOW	Q16	21.97	21.96	21.90	23.20
		MID	Q16	22.25	22.23	22.27	23.20
		HIGH	Q16	22.18	21.89	21.80	23.20
	36	LOW	Q16	20.80	20.65	20.53	22.20
		MID	Q16	20.86	20.87	20.56	22.20
		HIGH	Q16	20.78	20.80	20.66	22.20
	75	LOW	Q16	20.89	20.73	20.71	22.20
15	1	LOW	64QAM	21.15	21.02	20.81	22.20
		MID	64QAM	21.32	21.17	21.08	22.20
		HIGH	64QAM	21.12	21.02	20.75	22.20
	36	LOW	64QAM	19.79	19.86	19.63	21.20
		MID	64QAM	19.70	19.79	19.69	21.20
		HIGH	64QAM	19.71	19.50	19.61	21.20
	75	LOW	64QAM	19.63	19.56	19.63	21.20
Bandwidth (MHz)	RB Size	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	QPSK	22.51	22.51	22.34	24.20
		MID	QPSK	22.81	**22.83**	22.72	24.20
		HIGH	QPSK	22.55	22.46	22.36	24.20
	50	LOW	QPSK	21.61	21.60	21.61	23.20
		MID	QPSK	21.68	21.69	21.67	23.20
		HIGH	QPSK	21.65	21.57	21.46	23.20
	100	LOW	QPSK	21.66	21.59	21.62	23.20
20	1	LOW	Q16	22.03	21.99	21.82	23.20
		MID	Q16	**22.39**	22.21	22.15	23.20
		HIGH	Q16	22.08	21.90	21.85	23.20
	50	LOW	Q16	20.70	20.74	20.64	22.20
		MID	Q16	20.82	20.74	20.69	22.20
		HIGH	Q16	20.77	20.65	20.56	22.20
	100	LOW	Q16	20.77	20.68	20.71	22.20
20	1	LOW	64QAM	20.90	21.07	20.75	22.20
		MID	64QAM	**21.53**	21.32	21.13	22.20
		HIGH	64QAM	21.13	20.89	20.84	22.20
	50	LOW	64QAM	19.83	19.82	19.60	21.20
		MID	64QAM	19.71	19.76	19.83	21.20
		HIGH	64QAM	19.86	19.52	19.60	21.20
	100	LOW	64QAM	19.90	19.82	19.71	21.20

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	20.77	20.67	20.58	22.20
		MID	12	QPSK	20.92	20.84	20.75	22.20
		HIGH	24	QPSK	20.72	20.66	20.55	22.20
	3	LOW	0	QPSK	20.79	20.75	20.79	22.20
		MID	7	QPSK	20.84	20.79	20.80	22.20
		HIGH	13	QPSK	20.80	20.77	20.81	22.20
	6	LOW	0	QPSK	20.84	20.73	20.66	22.20
1.4	1	LOW	0	Q16	20.81	21.06	20.71	22.20
		MID	12	Q16	21.07	21.23	20.87	22.20
		HIGH	24	Q16	20.84	21.10	20.72	22.20
	3	LOW	0	Q16	20.86	20.99	21.05	22.20
		MID	7	Q16	20.83	20.98	21.02	22.20
		HIGH	13	Q16	20.83	20.99	20.99	22.20
	6	LOW	0	Q16	20.94	20.68	20.89	22.20
1.4	1	LOW	0	64QAM	20.74	21.01	20.72	22.20
		MID	12	64QAM	21.06	**21.28**	21.01	22.20
		HIGH	24	64QAM	20.97	21.09	20.68	22.20
	3	LOW	0	64QAM	20.82	21.06	21.06	22.20
		MID	7	64QAM	20.98	20.99	21.09	22.20
		HIGH	13	64QAM	20.71	21.00	20.87	22.20
	6	LOW	0	64QAM	20.02	19.66	19.80	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	0	QPSK	20.98	20.73	20.70	22.20
		MID	25	QPSK	21.26	20.99	21.06	22.20
		HIGH	49	QPSK	20.73	20.78	20.80	22.20
	8	LOW	0	QPSK	20.94	20.87	21.01	22.20
		MID	12	QPSK	21.03	21.05	21.00	22.20
		HIGH	25	QPSK	20.96	20.93	20.82	22.20
	15	LOW	0	QPSK	20.92	21.08	21.04	22.20
3	1	LOW	0	Q16	21.24	21.20	21.03	22.20
		MID	25	Q16	21.56	21.30	21.17	22.20
		HIGH	49	Q16	21.16	21.11	21.02	22.20
	8	LOW	0	Q16	21.01	21.16	21.10	22.20
		MID	12	Q16	21.16	20.95	21.03	22.20
		HIGH	25	Q16	21.05	20.93	20.84	22.20
	15	LOW	0	Q16	21.22	20.89	21.02	22.20
3	1	LOW	0	64QAM	21.24	21.02	21.07	22.20
		MID	25	64QAM	**21.60**	21.31	21.30	22.20
		HIGH	49	64QAM	21.16	21.24	21.17	22.20
	8	LOW	0	64QAM	20.09	20.13	20.12	21.20
		MID	12	64QAM	20.25	20.06	19.93	21.20
		HIGH	25	64QAM	20.25	19.93	19.90	21.20
	15	LOW	0	64QAM	20.25	19.90	19.88	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	0	QPSK	20.84	20.92	20.62	22.20
		MID	12	QPSK	21.06	21.14	21.07	22.20
		HIGH	24	QPSK	20.78	20.84	20.59	22.20
	12	LOW	0	QPSK	20.89	20.86	21.05	22.20
		MID	7	QPSK	20.98	20.99	21.14	22.20
		HIGH	13	QPSK	20.92	20.79	20.97	22.20
	25	LOW	0	QPSK	21.05	20.93	21.02	22.20
5	1	LOW	0	Q16	21.07	21.03	20.84	22.20
		MID	12	Q16	**21.49**	21.42	21.32	22.20
		HIGH	24	Q16	21.09	20.98	21.07	22.20
	12	LOW	0	Q16	20.90	20.95	21.07	22.20
		MID	7	Q16	20.99	21.18	21.01	22.20
		HIGH	13	Q16	21.11	21.03	20.72	22.20
	25	LOW	0	Q16	21.05	21.01	20.94	22.20
5	1	LOW	0	64QAM	21.29	21.10	20.95	22.20
		MID	12	64QAM	21.30	21.10	21.33	22.20
		HIGH	24	64QAM	21.06	20.95	21.00	22.20
	12	LOW	0	64QAM	20.06	19.95	20.00	21.20
		MID	7	64QAM	19.96	19.86	20.05	21.20
		HIGH	13	64QAM	20.07	19.97	19.90	21.20
	25	LOW	0	64QAM	20.13	19.97	19.98	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	0	QPSK	20.88	20.93	20.84	22.20
		MID	25	QPSK	21.11	21.21	20.98	22.20
		HIGH	49	QPSK	20.80	20.75	20.63	22.20
	25	LOW	0	QPSK	21.02	21.05	21.06	22.20
		MID	12	QPSK	20.95	21.11	21.08	22.20
		HIGH	25	QPSK	21.17	20.77	20.78	22.20
	50	LOW	0	QPSK	21.01	21.06	21.02	22.20
10	1	LOW	0	Q16	21.06	21.29	21.03	22.20
		MID	25	Q16	**21.53**	21.32	21.36	22.20
		HIGH	49	Q16	21.26	21.11	21.10	22.20
	25	LOW	0	Q16	20.88	20.98	21.03	22.20
		MID	12	Q16	21.21	21.03	20.93	22.20
		HIGH	25	Q16	21.10	21.09	20.89	22.20
	50	LOW	0	Q16	21.12	20.92	20.96	22.20
10	1	LOW	0	64QAM	21.09	21.08	21.10	22.20
		MID	25	64QAM	21.41	21.39	21.25	22.20
		HIGH	49	64QAM	21.16	21.21	21.05	22.20
	25	LOW	0	64QAM	19.92	19.88	19.94	21.20
		MID	12	64QAM	20.23	20.15	20.06	21.20
		HIGH	25	64QAM	20.13	20.05	20.01	21.20
	50	LOW	0	64QAM	20.25	19.94	20.02	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	0	QPSK	20.89	20.72	20.78	22.20
		MID	37	QPSK	21.27	21.06	21.00	22.20
		HIGH	74	QPSK	21.01	20.81	20.80	22.20
	36	LOW	0	QPSK	21.07	21.02	21.03	22.20
		MID	20	QPSK	20.94	21.05	21.06	22.20
		HIGH	39	QPSK	21.03	21.03	20.90	22.20
	75	LOW	0	QPSK	20.96	21.07	21.05	22.20
15	1	LOW	0	Q16	21.24	21.07	20.90	22.20
		MID	37	Q16	**21.66**	21.48	21.34	22.20
		HIGH	74	Q16	21.34	21.04	21.02	22.20
	36	LOW	0	Q16	21.04	21.04	20.98	22.20
		MID	20	Q16	21.17	21.12	20.96	22.20
		HIGH	39	Q16	20.99	21.12	20.73	22.20
	75	LOW	0	Q16	21.25	20.87	21.01	22.20
15	1	LOW	0	64QAM	21.05	21.17	20.87	22.20
		MID	37	64QAM	21.59	21.54	21.16	22.20
		HIGH	74	64QAM	21.28	21.02	20.98	22.20
	36	LOW	0	64QAM	20.11	19.97	19.88	21.20
		MID	20	64QAM	20.12	19.95	20.08	21.20
		HIGH	39	64QAM	20.15	19.92	19.88	21.20
	75	LOW	0	64QAM	20.01	20.03	20.10	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	0	QPSK	20.83	20.87	20.70	22.20
		MID	49	QPSK	21.17	**21.19**	21.05	22.20
		HIGH	99	QPSK	20.88	20.82	20.72	22.20
	50	LOW	0	QPSK	20.95	20.95	20.94	22.20
		MID	24	QPSK	21.08	21.09	21.01	22.20
		HIGH	50	QPSK	21.02	20.91	20.86	22.20
	100	LOW	0	QPSK	21.04	20.96	20.94	22.20
20	1	LOW	0	Q16	21.18	21.16	20.98	22.20
		MID	49	Q16	**21.51**	21.44	21.31	22.20
		HIGH	99	Q16	21.21	21.09	21.09	22.20
	50	LOW	0	Q16	21.03	21.01	21.00	22.20
		MID	24	Q16	21.14	21.05	20.98	22.20
		HIGH	50	Q16	21.10	20.97	20.87	22.20
	100	LOW	0	Q16	21.13	20.99	20.95	22.20
20	1	LOW	0	64QAM	21.22	21.17	21.05	22.20
		MID	49	64QAM	21.39	**21.45**	21.32	22.20
		HIGH	99	64QAM	21.20	21.21	21.00	22.20
	50	LOW	0	64QAM	20.16	19.86	20.05	21.20
		MID	24	64QAM	20.18	19.99	19.95	21.20
		HIGH	50	64QAM	20.01	19.84	19.94	21.20
	100	LOW	0	64QAM	20.17	19.95	19.97	21.20

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	20.77	20.67	20.58	22.20
		MID	12	QPSK	20.92	20.84	20.75	22.20
		HIGH	24	QPSK	20.72	20.66	20.55	22.20
	3	LOW	0	QPSK	20.79	20.75	20.79	22.20
		MID	7	QPSK	20.84	20.79	20.80	22.20
		HIGH	13	QPSK	20.80	20.77	20.81	22.20
	6	LOW	0	QPSK	20.84	20.73	20.66	22.20
1.4	1	LOW	0	Q16	20.81	21.06	20.71	22.20
		MID	12	Q16	21.07	21.23	20.87	22.20
		HIGH	24	Q16	20.84	21.10	20.72	22.20
	3	LOW	0	Q16	20.86	20.99	21.05	22.20
		MID	7	Q16	20.83	20.98	21.02	22.20
		HIGH	13	Q16	20.83	20.99	20.99	22.20
	6	LOW	0	Q16	20.94	20.68	20.89	22.20
1.4	1	LOW	0	64QAM	20.74	21.01	20.72	22.20
		MID	12	64QAM	21.06	**21.28**	21.01	22.20
		HIGH	24	64QAM	20.97	21.09	20.68	22.20
	3	LOW	0	64QAM	20.82	21.06	21.06	22.20
		MID	7	64QAM	20.98	20.99	21.09	22.20
		HIGH	13	64QAM	20.71	21.00	20.87	22.20
	6	LOW	0	64QAM	20.02	19.66	19.80	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	0	QPSK	20.98	20.73	20.70	22.20
		MID	25	QPSK	21.26	20.99	21.06	22.20
		HIGH	49	QPSK	20.73	20.78	20.80	22.20
	8	LOW	0	QPSK	20.94	20.87	21.01	22.20
		MID	12	QPSK	21.03	21.05	21.00	22.20
		HIGH	25	QPSK	20.96	20.93	20.82	22.20
	15	LOW	0	QPSK	20.92	21.08	21.04	22.20
3	1	LOW	0	Q16	21.24	21.20	21.03	22.20
		MID	25	Q16	21.56	21.30	21.17	22.20
		HIGH	49	Q16	21.16	21.11	21.02	22.20
	8	LOW	0	Q16	21.01	21.16	21.10	22.20
		MID	12	Q16	21.16	20.95	21.03	22.20
		HIGH	25	Q16	21.05	20.93	20.84	22.20
	15	LOW	0	Q16	21.22	20.89	21.02	22.20
3	1	LOW	0	64QAM	21.24	21.02	21.07	22.20
		MID	25	64QAM	**21.60**	21.31	21.30	22.20
		HIGH	49	64QAM	21.16	21.24	21.17	22.20
	8	LOW	0	64QAM	20.09	20.13	20.12	21.20
		MID	12	64QAM	20.25	20.06	19.93	21.20
		HIGH	25	64QAM	20.25	19.93	19.90	21.20
	15	LOW	0	64QAM	20.25	19.90	19.88	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	0	QPSK	20.84	20.92	20.62	22.20
		MID	12	QPSK	21.06	21.14	21.07	22.20
		HIGH	24	QPSK	20.78	20.84	20.59	22.20
	12	LOW	0	QPSK	20.89	20.86	21.05	22.20
		MID	7	QPSK	20.98	20.99	21.14	22.20
		HIGH	13	QPSK	20.92	20.79	20.97	22.20
	25	LOW	0	QPSK	21.05	20.93	21.02	22.20
5	1	LOW	0	Q16	21.07	21.03	20.84	22.20
		MID	12	Q16	**21.49**	21.42	21.32	22.20
		HIGH	24	Q16	21.09	20.98	21.07	22.20
	12	LOW	0	Q16	20.90	20.95	21.07	22.20
		MID	7	Q16	20.99	21.18	21.01	22.20
		HIGH	13	Q16	21.11	21.03	20.72	22.20
	25	LOW	0	Q16	21.05	21.01	20.94	22.20
5	1	LOW	0	64QAM	21.29	21.10	20.95	22.20
		MID	12	64QAM	21.30	21.10	21.33	22.20
		HIGH	24	64QAM	21.06	20.95	21.00	22.20
	12	LOW	0	64QAM	20.06	19.95	20.00	21.20
		MID	7	64QAM	19.96	19.86	20.05	21.20
		HIGH	13	64QAM	20.07	19.97	19.90	21.20
	25	LOW	0	64QAM	20.13	19.97	19.98	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	0	QPSK	20.88	20.93	20.84	22.20
		MID	25	QPSK	21.11	21.21	20.98	22.20
		HIGH	49	QPSK	20.80	20.75	20.63	22.20
	25	LOW	0	QPSK	21.02	21.05	21.06	22.20
		MID	12	QPSK	20.95	21.11	21.08	22.20
		HIGH	25	QPSK	21.17	20.77	20.78	22.20
	50	LOW	0	QPSK	21.01	21.06	21.02	22.20
10	1	LOW	0	Q16	21.06	21.29	21.03	22.20
		MID	25	Q16	**21.53**	21.32	21.36	22.20
		HIGH	49	Q16	21.26	21.11	21.10	22.20
	25	LOW	0	Q16	20.88	20.98	21.03	22.20
		MID	12	Q16	21.21	21.03	20.93	22.20
		HIGH	25	Q16	21.10	21.09	20.89	22.20
	50	LOW	0	Q16	21.12	20.92	20.96	22.20
10	1	LOW	0	64QAM	21.09	21.08	21.10	22.20
		MID	25	64QAM	21.41	21.39	21.25	22.20
		HIGH	49	64QAM	21.16	21.21	21.05	22.20
	25	LOW	0	64QAM	19.92	19.88	19.94	21.20
		MID	12	64QAM	20.23	20.15	20.06	21.20
		HIGH	25	64QAM	20.13	20.05	20.01	21.20
	50	LOW	0	64QAM	20.25	19.94	20.02	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	0	QPSK	20.89	20.72	20.78	22.20
		MID	37	QPSK	21.27	21.06	21.00	22.20
		HIGH	74	QPSK	21.01	20.81	20.80	22.20
	36	LOW	0	QPSK	21.07	21.02	21.03	22.20
		MID	20	QPSK	20.94	21.05	21.06	22.20
		HIGH	39	QPSK	21.03	21.03	20.90	22.20
	75	LOW	0	QPSK	20.96	21.07	21.05	22.20
15	1	LOW	0	Q16	21.24	21.07	20.90	22.20
		MID	37	Q16	**21.66**	21.48	21.34	22.20
		HIGH	74	Q16	21.34	21.04	21.02	22.20
	36	LOW	0	Q16	21.04	21.04	20.98	22.20
		MID	20	Q16	21.17	21.12	20.96	22.20
		HIGH	39	Q16	20.99	21.12	20.73	22.20
	75	LOW	0	Q16	21.25	20.87	21.01	22.20
15	1	LOW	0	64QAM	21.05	21.17	20.87	22.20
		MID	37	64QAM	21.59	21.54	21.16	22.20
		HIGH	74	64QAM	21.28	21.02	20.98	22.20
	36	LOW	0	64QAM	20.11	19.97	19.88	21.20
		MID	20	64QAM	20.12	19.95	20.08	21.20
		HIGH	39	64QAM	20.15	19.92	19.88	21.20
	75	LOW	0	64QAM	20.01	20.03	20.10	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	0	QPSK	20.83	20.87	20.70	22.20
		MID	49	QPSK	21.17	**21.19**	21.05	22.20
		HIGH	99	QPSK	20.88	20.82	20.72	22.20
	50	LOW	0	QPSK	20.95	20.95	20.94	22.20
		MID	24	QPSK	21.08	21.09	21.01	22.20
		HIGH	50	QPSK	21.02	20.91	20.86	22.20
	100	LOW	0	QPSK	21.04	20.96	20.94	22.20
20	1	LOW	0	Q16	21.18	21.16	20.98	22.20
		MID	49	Q16	**21.51**	21.44	21.31	22.20
		HIGH	99	Q16	21.21	21.09	21.09	22.20
	50	LOW	0	Q16	21.03	21.01	21.00	22.20
		MID	24	Q16	21.14	21.05	20.98	22.20
		HIGH	50	Q16	21.10	20.97	20.87	22.20
	100	LOW	0	Q16	21.13	20.99	20.95	22.20
20	1	LOW	0	64QAM	21.22	21.17	21.05	22.20
		MID	49	64QAM	21.39	**21.45**	21.32	22.20
		HIGH	99	64QAM	21.20	21.21	21.00	22.20
	50	LOW	0	64QAM	20.16	19.86	20.05	21.20
		MID	24	64QAM	20.18	19.99	19.95	21.20
		HIGH	50	64QAM	20.01	19.84	19.94	21.20
	100	LOW	0	64QAM	20.17	19.95	19.97	21.20

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	20.77	20.67	20.58	22.20
		MID	12	QPSK	20.92	20.84	20.75	22.20
		HIGH	24	QPSK	20.72	20.66	20.55	22.20
	3	LOW	0	QPSK	20.79	20.75	20.79	22.20
		MID	7	QPSK	20.84	20.79	20.80	22.20
		HIGH	13	QPSK	20.80	20.77	20.81	22.20
	6	LOW	0	QPSK	20.84	20.73	20.66	22.20
1.4	1	LOW	0	Q16	20.81	21.06	20.71	22.20
		MID	12	Q16	21.07	21.23	20.87	22.20
		HIGH	24	Q16	20.84	21.10	20.72	22.20
	3	LOW	0	Q16	20.86	20.99	21.05	22.20
		MID	7	Q16	20.83	20.98	21.02	22.20
		HIGH	13	Q16	20.83	20.99	20.99	22.20
	6	LOW	0	Q16	20.94	20.68	20.89	22.20
1.4	1	LOW	0	64QAM	20.74	21.01	20.72	22.20
		MID	12	64QAM	21.06	**21.28**	21.01	22.20
		HIGH	24	64QAM	20.97	21.09	20.68	22.20
	3	LOW	0	64QAM	20.82	21.06	21.06	22.20
		MID	7	64QAM	20.98	20.99	21.09	22.20
		HIGH	13	64QAM	20.71	21.00	20.87	22.20
	6	LOW	0	64QAM	20.02	19.66	19.80	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	0	QPSK	20.98	20.73	20.70	22.20
		MID	25	QPSK	21.26	20.99	21.06	22.20
		HIGH	49	QPSK	20.73	20.78	20.80	22.20
	8	LOW	0	QPSK	20.94	20.87	21.01	22.20
		MID	12	QPSK	21.03	21.05	21.00	22.20
		HIGH	25	QPSK	20.96	20.93	20.82	22.20
	15	LOW	0	QPSK	20.92	21.08	21.04	22.20
3	1	LOW	0	Q16	21.24	21.20	21.03	22.20
		MID	25	Q16	21.56	21.30	21.17	22.20
		HIGH	49	Q16	21.16	21.11	21.02	22.20
	8	LOW	0	Q16	21.01	21.16	21.10	22.20
		MID	12	Q16	21.16	20.95	21.03	22.20
		HIGH	25	Q16	21.05	20.93	20.84	22.20
	15	LOW	0	Q16	21.22	20.89	21.02	22.20
3	1	LOW	0	64QAM	21.24	21.02	21.07	22.20
		MID	25	64QAM	**21.60**	21.31	21.30	22.20
		HIGH	49	64QAM	21.16	21.24	21.17	22.20
	8	LOW	0	64QAM	20.09	20.13	20.12	21.20
		MID	12	64QAM	20.25	20.06	19.93	21.20
		HIGH	25	64QAM	20.25	19.93	19.90	21.20
	15	LOW	0	64QAM	20.25	19.90	19.88	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	0	QPSK	20.84	20.92	20.62	22.20
		MID	12	QPSK	21.06	21.14	21.07	22.20
		HIGH	24	QPSK	20.78	20.84	20.59	22.20
	12	LOW	0	QPSK	20.89	20.86	21.05	22.20
		MID	7	QPSK	20.98	20.99	21.14	22.20
		HIGH	13	QPSK	20.92	20.79	20.97	22.20
	25	LOW	0	QPSK	21.05	20.93	21.02	22.20
5	1	LOW	0	Q16	21.07	21.03	20.84	22.20
		MID	12	Q16	**21.49**	21.42	21.32	22.20
		HIGH	24	Q16	21.09	20.98	21.07	22.20
	12	LOW	0	Q16	20.90	20.95	21.07	22.20
		MID	7	Q16	20.99	21.18	21.01	22.20
		HIGH	13	Q16	21.11	21.03	20.72	22.20
	25	LOW	0	Q16	21.05	21.01	20.94	22.20
5	1	LOW	0	64QAM	21.29	21.10	20.95	22.20
		MID	12	64QAM	21.30	21.10	21.33	22.20
		HIGH	24	64QAM	21.06	20.95	21.00	22.20
	12	LOW	0	64QAM	20.06	19.95	20.00	21.20
		MID	7	64QAM	19.96	19.86	20.05	21.20
		HIGH	13	64QAM	20.07	19.97	19.90	21.20
	25	LOW	0	64QAM	20.13	19.97	19.98	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	0	QPSK	20.88	20.93	20.84	22.20
		MID	25	QPSK	21.11	21.21	20.98	22.20
		HIGH	49	QPSK	20.80	20.75	20.63	22.20
	25	LOW	0	QPSK	21.02	21.05	21.06	22.20
		MID	12	QPSK	20.95	21.11	21.08	22.20
		HIGH	25	QPSK	21.17	20.77	20.78	22.20
	50	LOW	0	QPSK	21.01	21.06	21.02	22.20
10	1	LOW	0	Q16	21.06	21.29	21.03	22.20
		MID	25	Q16	**21.53**	21.32	21.36	22.20
		HIGH	49	Q16	21.26	21.11	21.10	22.20
	25	LOW	0	Q16	20.88	20.98	21.03	22.20
		MID	12	Q16	21.21	21.03	20.93	22.20
		HIGH	25	Q16	21.10	21.09	20.89	22.20
	50	LOW	0	Q16	21.12	20.92	20.96	22.20
10	1	LOW	0	64QAM	21.09	21.08	21.10	22.20
		MID	25	64QAM	21.41	21.39	21.25	22.20
		HIGH	49	64QAM	21.16	21.21	21.05	22.20
	25	LOW	0	64QAM	19.92	19.88	19.94	21.20
		MID	12	64QAM	20.23	20.15	20.06	21.20
		HIGH	25	64QAM	20.13	20.05	20.01	21.20
	50	LOW	0	64QAM	20.25	19.94	20.02	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	0	QPSK	20.89	20.72	20.78	22.20
		MID	37	QPSK	21.27	21.06	21.00	22.20
		HIGH	74	QPSK	21.01	20.81	20.80	22.20
	36	LOW	0	QPSK	21.07	21.02	21.03	22.20
		MID	20	QPSK	20.94	21.05	21.06	22.20
		HIGH	39	QPSK	21.03	21.03	20.90	22.20
	75	LOW	0	QPSK	20.96	21.07	21.05	22.20
15	1	LOW	0	Q16	21.24	21.07	20.90	22.20
		MID	37	Q16	**21.66**	21.48	21.34	22.20
		HIGH	74	Q16	21.34	21.04	21.02	22.20
	36	LOW	0	Q16	21.04	21.04	20.98	22.20
		MID	20	Q16	21.17	21.12	20.96	22.20
		HIGH	39	Q16	20.99	21.12	20.73	22.20
	75	LOW	0	Q16	21.25	20.87	21.01	22.20
15	1	LOW	0	64QAM	21.05	21.17	20.87	22.20
		MID	37	64QAM	21.59	21.54	21.16	22.20
		HIGH	74	64QAM	21.28	21.02	20.98	22.20
	36	LOW	0	64QAM	20.11	19.97	19.88	21.20
		MID	20	64QAM	20.12	19.95	20.08	21.20
		HIGH	39	64QAM	20.15	19.92	19.88	21.20
	75	LOW	0	64QAM	20.01	20.03	20.10	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	0	QPSK	20.83	20.87	20.70	22.20
		MID	49	QPSK	21.17	**21.19**	21.05	22.20
		HIGH	99	QPSK	20.88	20.82	20.72	22.20
	50	LOW	0	QPSK	20.95	20.95	20.94	22.20
		MID	24	QPSK	21.08	21.09	21.01	22.20
		HIGH	50	QPSK	21.02	20.91	20.86	22.20
	100	LOW	0	QPSK	21.04	20.96	20.94	22.20
20	1	LOW	0	Q16	21.18	21.16	20.98	22.20
		MID	49	Q16	**21.51**	21.44	21.31	22.20
		HIGH	99	Q16	21.21	21.09	21.09	22.20
	50	LOW	0	Q16	21.03	21.01	21.00	22.20
		MID	24	Q16	21.14	21.05	20.98	22.20
		HIGH	50	Q16	21.10	20.97	20.87	22.20
	100	LOW	0	Q16	21.13	20.99	20.95	22.20
20	1	LOW	0	64QAM	21.22	21.17	21.05	22.20
		MID	49	64QAM	21.39	**21.45**	21.32	22.20
		HIGH	99	64QAM	21.20	21.21	21.00	22.20
	50	LOW	0	64QAM	20.16	19.86	20.05	21.20
		MID	24	64QAM	20.18	19.99	19.95	21.20
		HIGH	50	64QAM	20.01	19.84	19.94	21.20
	100	LOW	0	64QAM	20.17	19.95	19.97	21.20

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	20.77	20.67	20.58	22.20
		MID	12	QPSK	20.92	20.84	20.75	22.20
		HIGH	24	QPSK	20.72	20.66	20.55	22.20
	3	LOW	0	QPSK	20.79	20.75	20.79	22.20
		MID	7	QPSK	20.84	20.79	20.80	22.20
		HIGH	13	QPSK	20.80	20.77	20.81	22.20
	6	LOW	0	QPSK	20.84	20.73	20.66	22.20
1.4	1	LOW	0	Q16	20.81	21.06	20.71	22.20
		MID	12	Q16	21.07	21.23	20.87	22.20
		HIGH	24	Q16	20.84	21.10	20.72	22.20
	3	LOW	0	Q16	20.86	20.99	21.05	22.20
		MID	7	Q16	20.83	20.98	21.02	22.20
		HIGH	13	Q16	20.83	20.99	20.99	22.20
	6	LOW	0	Q16	20.94	20.68	20.89	22.20
1.4	1	LOW	0	64QAM	20.74	21.01	20.72	22.20
		MID	12	64QAM	21.06	**21.28**	21.01	22.20
		HIGH	24	64QAM	20.97	21.09	20.68	22.20
	3	LOW	0	64QAM	20.82	21.06	21.06	22.20
		MID	7	64QAM	20.98	20.99	21.09	22.20
		HIGH	13	64QAM	20.71	21.00	20.87	22.20
	6	LOW	0	64QAM	20.02	19.66	19.80	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	0	QPSK	20.98	20.73	20.70	22.20
		MID	25	QPSK	21.26	20.99	21.06	22.20
		HIGH	49	QPSK	20.73	20.78	20.80	22.20
	8	LOW	0	QPSK	20.94	20.87	21.01	22.20
		MID	12	QPSK	21.03	21.05	21.00	22.20
		HIGH	25	QPSK	20.96	20.93	20.82	22.20
	15	LOW	0	QPSK	20.92	21.08	21.04	22.20
3	1	LOW	0	Q16	21.24	21.20	21.03	22.20
		MID	25	Q16	21.56	21.30	21.17	22.20
		HIGH	49	Q16	21.16	21.11	21.02	22.20
	8	LOW	0	Q16	21.01	21.16	21.10	22.20
		MID	12	Q16	21.16	20.95	21.03	22.20
		HIGH	25	Q16	21.05	20.93	20.84	22.20
	15	LOW	0	Q16	21.22	20.89	21.02	22.20
3	1	LOW	0	64QAM	21.24	21.02	21.07	22.20
		MID	25	64QAM	**21.60**	21.31	21.30	22.20
		HIGH	49	64QAM	21.16	21.24	21.17	22.20
	8	LOW	0	64QAM	20.09	20.13	20.12	21.20
		MID	12	64QAM	20.25	20.06	19.93	21.20
		HIGH	25	64QAM	20.25	19.93	19.90	21.20
	15	LOW	0	64QAM	20.25	19.90	19.88	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	0	QPSK	20.84	20.92	20.62	22.20
		MID	12	QPSK	21.06	21.14	21.07	22.20
		HIGH	24	QPSK	20.78	20.84	20.59	22.20
	12	LOW	0	QPSK	20.89	20.86	21.05	22.20
		MID	7	QPSK	20.98	20.99	21.14	22.20
		HIGH	13	QPSK	20.92	20.79	20.97	22.20
	25	LOW	0	QPSK	21.05	20.93	21.02	22.20
5	1	LOW	0	Q16	21.07	21.03	20.84	22.20
		MID	12	Q16	**21.49**	21.42	21.32	22.20
		HIGH	24	Q16	21.09	20.98	21.07	22.20
	12	LOW	0	Q16	20.90	20.95	21.07	22.20
		MID	7	Q16	20.99	21.18	21.01	22.20
		HIGH	13	Q16	21.11	21.03	20.72	22.20
	25	LOW	0	Q16	21.05	21.01	20.94	22.20
5	1	LOW	0	64QAM	21.29	21.10	20.95	22.20
		MID	12	64QAM	21.30	21.10	21.33	22.20
		HIGH	24	64QAM	21.06	20.95	21.00	22.20
	12	LOW	0	64QAM	20.06	19.95	20.00	21.20
		MID	7	64QAM	19.96	19.86	20.05	21.20
		HIGH	13	64QAM	20.07	19.97	19.90	21.20
	25	LOW	0	64QAM	20.13	19.97	19.98	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	0	QPSK	20.88	20.93	20.84	22.20
		MID	25	QPSK	21.11	21.21	20.98	22.20
		HIGH	49	QPSK	20.80	20.75	20.63	22.20
	25	LOW	0	QPSK	21.02	21.05	21.06	22.20
		MID	12	QPSK	20.95	21.11	21.08	22.20
		HIGH	25	QPSK	21.17	20.77	20.78	22.20
	50	LOW	0	QPSK	21.01	21.06	21.02	22.20
10	1	LOW	0	Q16	21.06	21.29	21.03	22.20
		MID	25	Q16	**21.53**	21.32	21.36	22.20
		HIGH	49	Q16	21.26	21.11	21.10	22.20
	25	LOW	0	Q16	20.88	20.98	21.03	22.20
		MID	12	Q16	21.21	21.03	20.93	22.20
		HIGH	25	Q16	21.10	21.09	20.89	22.20
	50	LOW	0	Q16	21.12	20.92	20.96	22.20
10	1	LOW	0	64QAM	21.09	21.08	21.10	22.20
		MID	25	64QAM	21.41	21.39	21.25	22.20
		HIGH	49	64QAM	21.16	21.21	21.05	22.20
	25	LOW	0	64QAM	19.92	19.88	19.94	21.20
		MID	12	64QAM	20.23	20.15	20.06	21.20
		HIGH	25	64QAM	20.13	20.05	20.01	21.20
	50	LOW	0	64QAM	20.25	19.94	20.02	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	0	QPSK	20.89	20.72	20.78	22.20
		MID	37	QPSK	21.27	21.06	21.00	22.20
		HIGH	74	QPSK	21.01	20.81	20.80	22.20
	36	LOW	0	QPSK	21.07	21.02	21.03	22.20
		MID	20	QPSK	20.94	21.05	21.06	22.20
		HIGH	39	QPSK	21.03	21.03	20.90	22.20
	75	LOW	0	QPSK	20.96	21.07	21.05	22.20
15	1	LOW	0	Q16	21.24	21.07	20.90	22.20
		MID	37	Q16	**21.66**	21.48	21.34	22.20
		HIGH	74	Q16	21.34	21.04	21.02	22.20
	36	LOW	0	Q16	21.04	21.04	20.98	22.20
		MID	20	Q16	21.17	21.12	20.96	22.20
		HIGH	39	Q16	20.99	21.12	20.73	22.20
	75	LOW	0	Q16	21.25	20.87	21.01	22.20
15	1	LOW	0	64QAM	21.05	21.17	20.87	22.20
		MID	37	64QAM	21.59	21.54	21.16	22.20
		HIGH	74	64QAM	21.28	21.02	20.98	22.20
	36	LOW	0	64QAM	20.11	19.97	19.88	21.20
		MID	20	64QAM	20.12	19.95	20.08	21.20
		HIGH	39	64QAM	20.15	19.92	19.88	21.20
	75	LOW	0	64QAM	20.01	20.03	20.10	21.20
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	0	QPSK	20.83	20.87	20.70	22.20
		MID	49	QPSK	21.17	**21.19**	21.05	22.20
		HIGH	99	QPSK	20.88	20.82	20.72	22.20
	50	LOW	0	QPSK	20.95	20.95	20.94	22.20
		MID	24	QPSK	21.08	**21.09**	21.01	22.20
		HIGH	50	QPSK	21.02	20.91	20.86	22.20
	100	LOW	0	QPSK	21.04	20.96	20.94	22.20
20	1	LOW	0	Q16	21.18	21.16	20.98	22.20
		MID	49	Q16	**21.51**	21.44	21.31	22.20
		HIGH	99	Q16	21.21	21.09	21.09	22.20
	50	LOW	0	Q16	21.03	21.01	21.00	22.20
		MID	24	Q16	21.14	21.05	20.98	22.20
		HIGH	50	Q16	21.10	20.97	20.87	22.20
	100	LOW	0	Q16	21.13	20.99	20.95	22.20
20	1	LOW	0	64QAM	21.22	21.17	21.05	22.20
		MID	49	64QAM	21.39	21.45	21.32	22.20
		HIGH	99	64QAM	21.20	21.21	21.00	22.20
	50	LOW	0	64QAM	20.16	19.86	20.05	21.20
		MID	24	64QAM	20.18	19.99	19.95	21.20
		HIGH	50	64QAM	20.01	19.84	19.94	21.20
	100	LOW	0	64QAM	20.17	19.95	19.97	21.20

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Bandwidth (MHz)	RB Size	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.36	22.45	22.39	24.00
		MID	QPSK	22.50	22.50	22.58	24.00
		HIGH	QPSK	22.50	22.50	22.44	24.00
	3	LOW	QPSK	22.63	22.46	22.50	24.00
		MID	QPSK	22.56	22.54	22.57	24.00
		HIGH	QPSK	22.42	**22.65**	22.59	24.00
	6	LOW	QPSK	21.59	21.56	21.52	23.00
1.4	1	LOW	Q16	21.23	21.60	21.21	23.00
		MID	Q16	21.62	21.85	21.30	23.00
		HIGH	Q16	21.31	21.67	21.24	23.00
	3	LOW	Q16	21.61	21.80	21.73	23.00
		MID	Q16	21.52	21.70	21.58	23.00
		HIGH	Q16	21.56	21.76	21.58	23.00
	6	LOW	Q16	20.69	20.36	20.57	22.00
1.4	1	LOW	64QAM	20.36	20.60	20.21	22.00
		MID	64QAM	20.36	20.95	20.37	22.00
		HIGH	64QAM	20.14	20.60	20.15	22.00
	3	LOW	64QAM	20.58	20.74	20.79	22.00
		MID	64QAM	20.67	20.78	20.84	22.00
		HIGH	64QAM	20.51	20.43	20.81	22.00
	6	LOW	64QAM	19.49	19.25	19.51	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	QPSK	22.39	22.27	22.40	24.00
		MID	QPSK	22.64	**22.85**	22.83	24.00
		HIGH	QPSK	22.31	22.56	22.50	24.00
	8	LOW	QPSK	21.44	21.43	21.48	23.00
		MID	QPSK	21.40	21.77	21.72	23.00
		HIGH	QPSK	21.59	21.48	21.33	23.00
	15	LOW	QPSK	21.42	21.77	21.61	23.00
3	1	LOW	Q16	21.50	21.69	21.72	23.00
		MID	Q16	21.63	22.04	21.96	23.00
		HIGH	Q16	21.54	21.75	21.73	23.00
	8	LOW	Q16	20.31	20.70	20.49	22.00
		MID	Q16	20.46	20.81	20.50	22.00
		HIGH	Q16	20.51	20.76	20.42	22.00
	15	LOW	Q16	20.52	20.62	20.28	22.00
3	1	LOW	64QAM	20.72	20.71	20.86	22.00
		MID	64QAM	20.76	21.03	21.09	22.00
		HIGH	64QAM	20.56	20.66	20.72	22.00
	8	LOW	64QAM	19.27	19.54	19.54	21.00
		MID	64QAM	19.55	19.80	19.73	21.00
		HIGH	64QAM	19.40	19.52	19.42	21.00
	15	LOW	64QAM	19.62	19.75	19.50	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	QPSK	22.25	22.46	22.34	24.00
		MID	QPSK	22.65	22.61	**22.78**	24.00
		HIGH	QPSK	22.28	22.34	22.47	24.00
	12	LOW	QPSK	21.49	21.50	21.47	23.00
		MID	QPSK	21.70	21.36	21.54	23.00
		HIGH	QPSK	21.55	21.67	21.55	23.00
	25	LOW	QPSK	21.43	21.67	21.41	23.00
5	1	LOW	Q16	21.50	21.86	21.87	23.00
		MID	Q16	21.64	22.17	21.82	23.00
		HIGH	Q16	21.69	21.71	21.71	23.00
	12	LOW	Q16	20.46	20.59	20.43	22.00
		MID	Q16	20.35	20.66	20.73	22.00
		HIGH	Q16	20.44	20.64	20.47	22.00
	25	LOW	Q16	20.58	20.66	20.59	22.00
5	1	LOW	64QAM	20.47	20.61	20.71	22.00
		MID	64QAM	20.92	21.13	21.00	22.00
		HIGH	64QAM	20.51	20.65	20.78	22.00
	12	LOW	64QAM	19.59	19.71	19.63	21.00
		MID	64QAM	19.56	19.65	19.79	21.00
		HIGH	64QAM	19.55	19.56	19.55	21.00
	25	LOW	64QAM	19.49	19.50	19.61	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	QPSK	22.27	22.35	22.35	24.00
		MID	QPSK	22.68	**22.90**	22.55	24.00
		HIGH	QPSK	22.30	22.26	22.59	24.00
	25	LOW	QPSK	21.42	21.40	21.44	23.00
		MID	QPSK	21.49	21.60	21.54	23.00
		HIGH	QPSK	21.61	21.44	21.38	23.00
	50	LOW	QPSK	21.38	21.78	21.55	23.00
10	1	LOW	Q16	21.66	21.72	21.51	23.00
		MID	Q16	21.74	21.84	21.79	23.00
		HIGH	Q16	21.81	21.56	21.62	23.00
	25	LOW	Q16	20.52	20.72	20.71	22.00
		MID	Q16	20.55	20.59	20.69	22.00
		HIGH	Q16	20.65	20.63	20.47	22.00
	50	LOW	Q16	20.68	20.59	20.47	22.00
10	1	LOW	64QAM	20.42	20.53	20.72	22.00
		MID	64QAM	20.72	20.90	20.91	22.00
		HIGH	64QAM	20.69	20.80	20.79	22.00
	25	LOW	64QAM	19.37	19.46	19.52	21.00
		MID	64QAM	19.60	19.65	19.82	21.00
		HIGH	64QAM	19.59	19.65	19.44	21.00
	50	LOW	64QAM	19.49	19.41	19.65	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	QPSK	22.26	22.32	22.60	24.00
		MID	QPSK	22.55	**22.78**	22.74	24.00
		HIGH	QPSK	22.35	22.33	22.40	24.00
	36	LOW	QPSK	21.45	21.41	21.55	23.00
		MID	QPSK	21.58	21.77	21.66	23.00
		HIGH	QPSK	21.53	21.78	21.41	23.00
	75	LOW	QPSK	21.44	21.59	21.23	23.00
15	1	LOW	Q16	21.61	21.54	21.66	23.00
		MID	Q16	21.92	22.01	21.86	23.00
		HIGH	Q16	21.54	21.85	21.80	23.00
	36	LOW	Q16	20.39	20.57	20.70	22.00
		MID	Q16	20.53	20.72	20.78	22.00
		HIGH	Q16	20.55	20.63	20.52	22.00
	75	LOW	Q16	20.54	20.49	20.57	22.00
15	1	LOW	64QAM	20.30	20.58	20.52	22.00
		MID	64QAM	20.74	20.93	20.91	22.00
		HIGH	64QAM	20.55	20.53	20.43	22.00
	36	LOW	64QAM	19.27	19.39	19.28	21.00
		MID	64QAM	19.74	19.48	19.73	21.00
		HIGH	64QAM	19.37	19.49	19.54	21.00
	75	LOW	64QAM	19.49	19.56	19.59	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	QPSK	22.27	22.27	22.29	24.00
		MID	QPSK	22.70	**22.77**	22.74	24.00
		HIGH	QPSK	22.31	22.41	22.47	24.00
	50	LOW	QPSK	21.43	21.39	21.44	23.00
		MID	QPSK	21.54	21.71	21.60	23.00
		HIGH	QPSK	21.49	21.69	21.44	23.00
	100	LOW	QPSK	21.45	21.69	21.39	23.00
20	1	LOW	Q16	21.47	21.60	21.80	23.00
		MID	Q16	21.76	**22.11**	21.96	23.00
		HIGH	Q16	21.67	21.80	21.60	23.00
	50	LOW	Q16	20.54	20.55	20.57	22.00
		MID	Q16	20.56	20.67	20.67	22.00
		HIGH	Q16	20.37	20.73	20.53	22.00
	100	LOW	Q16	20.46	20.60	20.41	22.00
20	1	LOW	64QAM	20.42	20.60	20.61	22.00
		MID	64QAM	20.67	**21.14**	20.94	22.00
		HIGH	64QAM	20.44	20.74	20.74	22.00
	50	LOW	64QAM	19.42	19.62	19.54	21.00
		MID	64QAM	19.52	19.51	19.50	21.00
		HIGH	64QAM	19.47	19.77	19.35	21.00
	100	LOW	64QAM	19.39	19.81	19.56	21.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	13.68	13.69	13.66	15.00
		MID	3	QPSK	13.85	13.92	13.88	15.00
		HIGH	5	QPSK	13.68	13.72	13.69	15.00
	3	LOW	0	QPSK	13.78	13.81	13.76	15.00
		MID	1	QPSK	13.78	13.85	13.76	15.00
		HIGH	3	QPSK	13.79	13.80	13.79	15.00
	6	LOW	0	QPSK	13.76	13.80	13.75	15.00
1.4	1	LOW	0	Q16	13.60	13.92	13.48	15.00
		MID	3	Q16	13.73	14.10	13.63	15.00
		HIGH	5	Q16	13.59	13.92	13.49	15.00
	3	LOW	0	Q16	13.75	14.00	13.86	15.00
		MID	1	Q16	13.74	14.00	13.91	15.00
		HIGH	3	Q16	13.77	14.01	13.85	15.00
	6	LOW	0	Q16	13.89	13.68	13.88	15.00
1.4	1	LOW	0	64QAM	13.70	14.07	13.40	15.00
		MID	12	64QAM	13.81	**14.16**	13.50	15.00
		HIGH	24	64QAM	13.48	13.87	13.35	15.00
	3	LOW	0	64QAM	13.82	14.05	14.01	15.00
		MID	7	64QAM	13.83	14.10	13.84	15.00
		HIGH	13	64QAM	13.78	14.15	13.75	15.00
	6	LOW	0	64QAM	13.80	13.72	13.79	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	0	QPSK	13.53	13.80	13.46	15.00
		MID	25	QPSK	14.00	14.08	13.80	15.00
		HIGH	49	QPSK	13.61	13.80	13.61	15.00
	8	LOW	0	QPSK	13.53	13.85	13.55	15.00
		MID	12	QPSK	13.59	13.70	13.78	15.00
		HIGH	25	QPSK	13.75	13.91	13.60	15.00
	15	LOW	0	QPSK	13.58	13.74	13.75	15.00
3	1	LOW	0	Q16	13.98	13.74	13.76	15.00
		MID	25	Q16	14.05	**14.30**	14.18	15.00
		HIGH	49	Q16	13.85	14.03	13.74	15.00
	8	LOW	0	Q16	13.78	13.76	13.79	15.00
		MID	12	Q16	13.87	13.83	13.78	15.00
		HIGH	25	Q16	13.82	14.04	13.51	15.00
	15	LOW	0	Q16	13.73	13.81	13.58	15.00
3	1	LOW	0	64QAM	13.62	13.43	13.68	15.00
		MID	25	64QAM	13.81	13.89	13.68	15.00
		HIGH	49	64QAM	13.72	13.55	13.45	15.00
	8	LOW	0	64QAM	13.17	13.42	13.14	15.00
		MID	12	64QAM	13.32	13.44	13.12	15.00
		HIGH	25	64QAM	13.24	13.43	13.22	15.00
	15	LOW	0	64QAM	13.16	13.16	13.27	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	0	QPSK	13.43	13.54	13.56	15.00
		MID	12	QPSK	13.72	13.90	14.01	15.00
		HIGH	24	QPSK	13.58	13.75	13.59	15.00
	12	LOW	0	QPSK	13.72	13.87	13.64	15.00
		MID	7	QPSK	13.61	13.91	13.69	15.00
		HIGH	13	QPSK	13.72	13.89	13.77	15.00
	25	LOW	0	QPSK	13.52	13.65	13.72	15.00
5	1	LOW	0	Q16	13.90	13.80	13.73	15.00
		MID	12	Q16	14.09	**14.18**	14.17	15.00
		HIGH	24	Q16	13.96	13.90	13.65	15.00
	12	LOW	0	Q16	13.74	13.73	13.78	15.00
		MID	7	Q16	13.61	13.87	13.59	15.00
		HIGH	13	Q16	13.56	13.88	13.65	15.00
	25	LOW	0	Q16	13.53	13.69	13.59	15.00
5	1	LOW	0	64QAM	13.65	13.45	13.42	15.00
		MID	12	64QAM	13.76	13.82	13.88	15.00
		HIGH	24	64QAM	13.54	13.77	13.50	15.00
	12	LOW	0	64QAM	13.04	13.13	13.14	15.00
		MID	7	64QAM	13.18	13.42	13.23	15.00
		HIGH	13	64QAM	13.33	13.45	13.25	15.00
	25	LOW	0	64QAM	13.15	13.21	13.08	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	0	QPSK	13.68	13.54	13.57	15.00
		MID	25	QPSK	13.90	13.92	13.99	15.00
		HIGH	49	QPSK	13.73	13.65	13.52	15.00
	25	LOW	0	QPSK	13.75	13.75	13.58	15.00
		MID	12	QPSK	13.78	13.69	13.71	15.00
		HIGH	25	QPSK	13.58	13.86	13.61	15.00
	50	LOW	0	QPSK	13.64	13.85	13.78	15.00
10	1	LOW	0	Q16	13.73	13.84	13.89	15.00
		MID	25	Q16	14.02	**14.12**	13.91	15.00
		HIGH	49	Q16	13.81	13.80	13.76	15.00
	25	LOW	0	Q16	13.69	13.77	13.65	15.00
		MID	12	Q16	13.71	13.93	13.69	15.00
		HIGH	25	Q16	13.58	13.91	13.61	15.00
	50	LOW	0	Q16	13.55	13.63	13.75	15.00
10	1	LOW	0	64QAM	13.47	13.51	13.51	15.00
		MID	25	64QAM	13.91	13.88	13.86	15.00
		HIGH	49	64QAM	13.61	13.58	13.48	15.00
	25	LOW	0	64QAM	13.10	13.41	13.32	15.00
		MID	12	64QAM	13.12	13.28	13.13	15.00
		HIGH	25	64QAM	13.15	13.26	13.04	15.00
	50	LOW	0	64QAM	13.09	13.15	13.20	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	0	QPSK	13.47	13.73	13.55	15.00
		MID	37	QPSK	13.81	13.94	13.81	15.00
		HIGH	74	QPSK	13.68	13.56	13.61	15.00
	36	LOW	0	QPSK	13.50	13.72	13.83	15.00
		MID	20	QPSK	13.84	13.81	13.67	15.00
		HIGH	39	QPSK	13.76	13.90	13.80	15.00
	75	LOW	0	QPSK	13.52	13.75	13.84	15.00
15	1	LOW	0	Q16	13.89	13.82	13.71	15.00
		MID	37	Q16	14.17	**14.29**	14.15	15.00
		HIGH	74	Q16	14.01	13.79	13.75	15.00
	36	LOW	0	Q16	13.65	13.84	13.61	15.00
		MID	20	Q16	13.87	13.86	13.83	15.00
		HIGH	39	Q16	13.76	13.97	13.70	15.00
	75	LOW	0	Q16	13.77	13.68	13.88	15.00
15	1	LOW	0	64QAM	13.55	13.54	13.71	15.00
		MID	37	64QAM	13.86	14.05	13.78	15.00
		HIGH	74	64QAM	13.79	13.73	13.56	15.00
	36	LOW	0	64QAM	13.08	13.34	13.15	15.00
		MID	20	64QAM	13.19	13.18	13.24	15.00
		HIGH	39	64QAM	13.31	13.29	13.22	15.00
	75	LOW	0	64QAM	13.09	13.30	13.32	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	0	QPSK	13.56	13.66	13.61	15.00
		MID	49	QPSK	13.87	**13.99**	13.88	15.00
		HIGH	99	QPSK	13.68	13.70	13.60	15.00
	50	LOW	0	QPSK	13.61	13.77	13.68	15.00
		MID	24	QPSK	13.73	13.79	13.78	15.00
		HIGH	50	QPSK	13.69	13.84	13.66	15.00
	100	LOW	0	QPSK	13.65	13.79	13.71	15.00
20	1	LOW	0	Q16	13.87	13.88	13.86	15.00
		MID	49	Q16	14.09	**14.21**	14.06	15.00
		HIGH	99	Q16	13.96	13.92	13.77	15.00
	50	LOW	0	Q16	13.63	13.77	13.68	15.00
		MID	24	Q16	13.74	13.81	13.74	15.00
		HIGH	50	Q16	13.69	13.69	13.63	15.00
	100	LOW	0	Q16	13.68	13.76	13.73	15.00
20	1	LOW	0	64QAM	13.43	13.63	13.68	15.00
		MID	49	64QAM	**13.89**	13.83	13.62	15.00
		HIGH	99	64QAM	13.58	13.53	13.44	15.00
	50	LOW	0	64QAM	13.19	13.24	13.26	15.00
		MID	24	64QAM	13.28	13.23	13.37	15.00
		HIGH	50	64QAM	13.22	13.54	13.20	15.00
	100	LOW	0	64QAM	13.33	13.24	13.25	15.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	13.22	13.27	13.19	14.50
		MID	3	QPSK	13.41	13.46	13.45	14.50
		HIGH	5	QPSK	13.23	13.27	13.22	14.50
	3	LOW	0	QPSK	13.31	13.37	13.29	14.50
		MID	1	QPSK	13.35	13.40	13.35	14.50
		HIGH	3	QPSK	13.31	13.36	13.33	14.50
	6	LOW	0	QPSK	13.30	13.31	13.27	14.50
1.4	1	LOW	0	Q16	13.12	13.47	13.02	14.50
		MID	3	Q16	13.22	13.60	13.18	14.50
		HIGH	5	Q16	13.10	13.44	13.09	14.50
	3	LOW	0	Q16	13.30	13.52	13.41	14.50
		MID	1	Q16	13.34	13.55	13.48	14.50
		HIGH	3	Q16	13.31	13.56	13.46	14.50
	6	LOW	0	Q16	13.43	13.25	13.46	14.50
1.4	1	LOW	0	64QAM	13.01	13.43	12.88	14.50
		MID	12	64QAM	13.21	13.58	13.28	14.50
		HIGH	24	64QAM	12.97	13.56	13.18	14.50
	3	LOW	0	64QAM	13.18	13.53	13.53	14.50
		MID	7	64QAM	13.40	13.66	13.43	14.50
		HIGH	13	64QAM	13.43	13.70	13.47	14.50
	6	LOW	0	64QAM	13.47	13.21	13.38	14.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	0	QPSK	13.10	13.16	13.20	14.50
		MID	25	QPSK	13.52	13.62	13.51	14.50
		HIGH	49	QPSK	13.26	13.32	13.06	14.50
	8	LOW	0	QPSK	13.29	13.36	13.24	14.50
		MID	12	QPSK	13.27	13.35	13.27	14.50
		HIGH	25	QPSK	13.33	13.21	13.10	14.50
	15	LOW	0	QPSK	13.31	13.30	13.29	14.50
3	1	LOW	0	Q16	13.36	13.44	13.32	14.50
		MID	25	Q16	13.56	13.77	13.54	14.50
		HIGH	49	Q16	13.47	13.42	13.19	14.50
	8	LOW	0	Q16	13.24	13.29	13.14	14.50
		MID	12	Q16	13.39	13.30	13.46	14.50
		HIGH	25	Q16	13.20	13.47	13.07	14.50
	15	LOW	0	Q16	13.39	13.40	13.23	14.50
3	1	LOW	0	64QAM	13.27	13.34	13.27	14.50
		MID	25	64QAM	13.70	13.65	13.69	14.50
		HIGH	49	64QAM	13.65	13.49	13.33	14.50
	8	LOW	0	64QAM	13.07	13.47	13.22	14.50
		MID	12	64QAM	13.15	13.28	13.25	14.50
		HIGH	25	64QAM	13.35	13.32	13.29	14.50
	15	LOW	0	64QAM	13.12	13.34	13.34	14.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	0	QPSK	13.25	13.25	13.03	14.50
		MID	12	QPSK	13.52	13.60	13.34	14.50
		HIGH	24	QPSK	13.17	13.19	13.23	14.50
	12	LOW	0	QPSK	13.21	13.42	13.22	14.50
		MID	7	QPSK	13.17	13.26	13.28	14.50
		HIGH	13	QPSK	13.34	13.40	13.28	14.50
	25	LOW	0	QPSK	13.30	13.35	13.17	14.50
5	1	LOW	0	Q16	13.40	13.44	13.33	14.50
		MID	12	Q16	13.70	13.62	13.68	14.50
		HIGH	24	Q16	13.54	13.36	13.47	14.50
	12	LOW	0	Q16	13.19	13.41	13.31	14.50
		MID	7	Q16	13.34	13.40	13.24	14.50
		HIGH	13	Q16	13.29	13.33	13.24	14.50
	25	LOW	0	Q16	13.39	13.40	13.33	14.50
5	1	LOW	0	64QAM	13.32	13.23	13.40	14.50
		MID	12	64QAM	13.68	13.81	13.59	14.50
		HIGH	24	64QAM	13.63	13.37	13.29	14.50
	12	LOW	0	64QAM	13.25	13.30	13.31	14.50
		MID	7	64QAM	13.17	13.51	13.20	14.50
		HIGH	13	64QAM	13.10	13.45	13.12	14.50
	25	LOW	0	64QAM	13.15	13.27	13.33	14.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	0	QPSK	13.24	13.10	13.20	14.50
		MID	25	QPSK	13.43	13.36	13.46	14.50
		HIGH	49	QPSK	13.08	13.26	13.05	14.50
	25	LOW	0	QPSK	13.02	13.34	13.38	14.50
		MID	12	QPSK	13.29	13.20	13.42	14.50
		HIGH	25	QPSK	13.27	13.21	13.17	14.50
	50	LOW	0	QPSK	13.21	13.20	13.32	14.50
10	1	LOW	0	Q16	13.30	13.37	13.46	14.50
		MID	25	Q16	13.70	13.75	13.50	14.50
		HIGH	49	Q16	13.56	13.36	13.22	14.50
	25	LOW	0	Q16	13.20	13.49	13.11	14.50
		MID	12	Q16	13.23	13.36	13.38	14.50
		HIGH	25	Q16	13.11	13.48	13.36	14.50
	50	LOW	0	Q16	13.12	13.34	13.34	14.50
10	1	LOW	0	64QAM	13.52	13.38	13.52	14.50
		MID	25	64QAM	13.60	13.83	13.59	14.50
		HIGH	49	64QAM	13.41	13.59	13.20	14.50
	25	LOW	0	64QAM	13.22	13.34	13.21	14.50
		MID	12	64QAM	13.18	13.24	13.36	14.50
		HIGH	25	64QAM	13.25	13.37	13.32	14.50
	50	LOW	0	64QAM	13.31	13.46	13.20	14.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	0	QPSK	13.24	13.22	13.20	14.50
		MID	37	QPSK	13.40	13.60	13.50	14.50
		HIGH	74	QPSK	13.14	13.34	13.22	14.50
	36	LOW	0	QPSK	13.08	13.24	13.24	14.50
		MID	20	QPSK	13.27	13.26	13.31	14.50
		HIGH	39	QPSK	13.23	13.40	13.28	14.50
	75	LOW	0	QPSK	13.13	13.26	13.14	14.50
15	1	LOW	0	Q16	13.30	13.44	13.32	14.50
		MID	37	Q16	13.62	13.86	13.54	14.50
		HIGH	74	Q16	13.51	13.46	13.36	14.50
	36	LOW	0	Q16	13.10	13.31	13.17	14.50
		MID	20	Q16	13.37	13.50	13.37	14.50
		HIGH	39	Q16	13.26	13.34	13.12	14.50
	75	LOW	0	Q16	13.37	13.24	13.22	14.50
15	1	LOW	0	64QAM	13.52	13.23	13.47	14.50
		MID	37	64QAM	13.82	13.67	13.65	14.50
		HIGH	74	64QAM	13.41	13.36	13.30	14.50
	36	LOW	0	64QAM	13.09	13.31	13.34	14.50
		MID	20	64QAM	13.20	13.46	13.37	14.50
		HIGH	39	64QAM	13.24	13.52	13.28	14.50
	75	LOW	0	64QAM	13.21	13.27	13.37	14.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	0	QPSK	13.14	13.19	13.11	14.50
		MID	49	QPSK	13.44	**13.48**	13.40	14.50
		HIGH	99	QPSK	13.19	13.26	13.13	14.50
	50	LOW	0	QPSK	13.17	13.30	13.25	14.50
		MID	24	QPSK	13.28	13.33	13.29	14.50
		HIGH	50	QPSK	13.19	13.36	13.20	14.50
	100	LOW	0	QPSK	13.24	13.33	13.24	14.50
20	1	LOW	0	Q16	13.40	13.38	13.40	14.50
		MID	49	Q16	13.70	**13.75**	13.61	14.50
		HIGH	99	Q16	13.56	13.47	13.33	14.50
	50	LOW	0	Q16	13.18	13.36	13.26	14.50
		MID	24	Q16	13.30	13.39	13.33	14.50
		HIGH	50	Q16	13.23	13.43	13.21	14.50
	100	LOW	0	Q16	13.26	13.37	13.28	14.50
20	1	LOW	0	64QAM	13.32	13.53	13.34	14.50
		MID	49	64QAM	**13.77**	13.75	13.65	14.50
		HIGH	99	64QAM	13.65	13.62	13.26	14.50
	50	LOW	0	64QAM	13.20	13.26	13.19	14.50
		MID	24	64QAM	13.41	13.48	13.24	14.50
		HIGH	50	64QAM	13.21	13.28	13.17	14.50
	100	LOW	0	64QAM	13.19	13.34	13.17	14.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	19.91	19.97	19.90	21.00
		MID	3	QPSK	20.01	20.14	20.17	21.00
		HIGH	5	QPSK	19.90	19.92	19.87	21.00
	3	LOW	0	QPSK	20.05	20.07	20.01	21.00
		MID	1	QPSK	20.03	20.11	20.07	21.00
		HIGH	3	QPSK	20.00	20.09	20.06	21.00
	6	LOW	0	QPSK	19.96	20.01	19.96	21.00
1.4	1	LOW	0	Q16	19.89	20.19	19.82	21.00
		MID	3	Q16	20.06	20.42	19.97	21.00
		HIGH	5	Q16	19.90	20.23	19.83	21.00
	3	LOW	0	Q16	20.09	20.31	20.16	21.00
		MID	1	Q16	20.14	20.35	20.25	21.00
		HIGH	3	Q16	20.12	20.33	20.20	21.00
	6	LOW	0	Q16	20.19	19.98	20.15	21.00
1.4	1	LOW	0	64QAM	19.83	20.27	19.72	21.00
		MID	12	64QAM	20.20	20.37	19.94	21.00
		HIGH	24	64QAM	20.04	20.13	19.77	21.00
	3	LOW	0	64QAM	20.03	20.34	20.11	21.00
		MID	7	64QAM	20.16	20.27	20.36	21.00
		HIGH	13	64QAM	20.21	20.20	20.09	21.00
	6	LOW	0	64QAM	20.31	20.03	20.12	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	0	QPSK	19.77	19.90	19.79	21.00
		MID	25	QPSK	20.12	20.23	20.01	21.00
		HIGH	49	QPSK	19.92	19.99	19.79	21.00
	8	LOW	0	QPSK	19.68	19.97	19.98	21.00
		MID	12	QPSK	19.98	20.00	20.03	21.00
		HIGH	25	QPSK	19.90	20.18	19.96	21.00
	15	LOW	0	QPSK	19.84	20.02	19.97	21.00
3	1	LOW	0	Q16	20.21	20.00	20.14	21.00
		MID	25	Q16	20.43	20.64	20.26	21.00
		HIGH	49	Q16	20.26	20.15	20.14	21.00
	8	LOW	0	Q16	19.94	20.13	20.09	21.00
		MID	12	Q16	20.11	20.14	19.99	21.00
		HIGH	25	Q16	20.08	20.08	19.94	21.00
	15	LOW	0	Q16	20.01	20.16	19.93	21.00
3	1	LOW	0	64QAM	20.00	20.01	20.26	21.00
		MID	25	64QAM	20.39	20.53	20.43	21.00
		HIGH	49	64QAM	20.23	20.29	20.07	21.00
	8	LOW	0	64QAM	19.88	19.99	19.95	21.00
		MID	12	64QAM	19.96	20.20	20.09	21.00
		HIGH	25	64QAM	20.13	20.03	20.03	21.00
	15	LOW	0	64QAM	19.91	20.00	20.11	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	0	QPSK	19.79	19.89	19.62	21.00
		MID	12	QPSK	20.00	20.18	19.93	21.00
		HIGH	24	QPSK	19.90	19.96	19.71	21.00
	12	LOW	0	QPSK	19.72	19.93	19.89	21.00
		MID	7	QPSK	20.03	19.92	20.02	21.00
		HIGH	13	QPSK	19.89	20.15	19.86	21.00
	25	LOW	0	QPSK	20.00	20.07	19.88	21.00
5	1	LOW	0	Q16	19.96	20.01	20.00	21.00
		MID	12	Q16	20.37	20.41	20.29	21.00
		HIGH	24	Q16	20.24	20.27	20.05	21.00
	12	LOW	0	Q16	19.82	20.08	19.80	21.00
		MID	7	Q16	20.07	20.01	19.90	21.00
		HIGH	13	Q16	19.93	20.27	19.88	21.00
	25	LOW	0	Q16	19.94	20.02	19.85	21.00
5	1	LOW	0	64QAM	19.96	20.07	20.03	21.00
		MID	12	64QAM	20.47	20.50	20.23	21.00
		HIGH	24	64QAM	20.25	20.28	19.96	21.00
	12	LOW	0	64QAM	20.04	19.93	19.93	21.00
		MID	7	64QAM	20.04	20.02	19.95	21.00
		HIGH	13	64QAM	20.14	20.25	19.87	21.00
	25	LOW	0	64QAM	19.89	20.05	19.84	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	0	QPSK	19.75	19.95	19.65	21.00
		MID	25	QPSK	20.13	20.28	19.99	21.00
		HIGH	49	QPSK	19.89	19.87	19.71	21.00
	25	LOW	0	QPSK	19.90	19.88	19.81	21.00
		MID	12	QPSK	19.94	20.00	19.92	21.00
		HIGH	25	QPSK	19.98	19.91	19.98	21.00
	50	LOW	0	QPSK	19.81	19.89	19.84	21.00
10	1	LOW	0	Q16	20.19	20.12	20.03	21.00
		MID	25	Q16	20.38	20.41	20.45	21.00
		HIGH	49	Q16	20.28	20.23	20.09	21.00
	25	LOW	0	Q16	20.01	20.03	19.82	21.00
		MID	12	Q16	20.14	20.08	20.00	21.00
		HIGH	25	Q16	19.95	20.02	19.97	21.00
	50	LOW	0	Q16	20.09	20.03	19.88	21.00
10	1	LOW	0	64QAM	20.20	19.99	20.01	21.00
		MID	25	64QAM	20.46	20.40	20.36	21.00
		HIGH	49	64QAM	20.11	20.08	20.13	21.00
	25	LOW	0	64QAM	19.84	20.11	19.99	21.00
		MID	12	64QAM	20.04	20.15	20.05	21.00
		HIGH	25	64QAM	20.01	20.14	20.00	21.00
	50	LOW	0	64QAM	19.87	20.13	19.97	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	0	QPSK	19.69	19.87	19.84	21.00
		MID	37	QPSK	20.20	20.14	20.14	21.00
		HIGH	74	QPSK	19.95	19.71	19.83	21.00
	36	LOW	0	QPSK	19.71	19.91	19.88	21.00
		MID	20	QPSK	20.03	20.06	19.86	21.00
		HIGH	39	QPSK	19.74	20.19	19.90	21.00
	75	LOW	0	QPSK	19.95	20.11	19.99	21.00
15	1	LOW	0	Q16	20.15	20.23	20.10	21.00
		MID	37	Q16	20.49	20.60	20.44	21.00
		HIGH	74	Q16	20.23	20.19	20.03	21.00
	36	LOW	0	Q16	20.06	20.01	20.09	21.00
		MID	20	Q16	20.07	20.10	20.01	21.00
		HIGH	39	Q16	19.95	20.26	19.80	21.00
	75	LOW	0	Q16	19.82	20.01	20.12	21.00
15	1	LOW	0	64QAM	20.00	20.19	20.02	21.00
		MID	37	64QAM	20.33	20.57	20.49	21.00
		HIGH	74	64QAM	20.31	20.09	20.17	21.00
	36	LOW	0	64QAM	19.90	20.17	20.08	21.00
		MID	20	64QAM	20.12	20.11	19.92	21.00
		HIGH	39	64QAM	20.05	20.18	20.00	21.00
	75	LOW	0	64QAM	19.89	20.15	20.03	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	0	QPSK	19.71	19.83	19.75	21.00
		MID	49	QPSK	20.06	**20.13**	20.03	21.00
		HIGH	99	QPSK	19.84	19.85	19.77	21.00
	50	LOW	0	QPSK	19.82	19.92	19.88	21.00
		MID	24	QPSK	19.93	20.03	20.00	21.00
		HIGH	50	QPSK	19.89	20.06	19.87	21.00
	100	LOW	0	QPSK	19.91	19.99	19.91	21.00
20	1	LOW	0	Q16	20.10	20.13	20.12	21.00
		MID	49	Q16	20.36	**20.49**	20.39	21.00
		HIGH	99	Q16	20.21	20.20	20.08	21.00
	50	LOW	0	Q16	19.93	20.02	19.94	21.00
		MID	24	Q16	20.02	20.09	20.05	21.00
		HIGH	50	Q16	19.99	20.16	19.92	21.00
	100	LOW	0	Q16	19.96	20.09	19.98	21.00
20	1	LOW	0	64QAM	20.04	20.22	20.05	21.00
		MID	49	64QAM	20.30	**20.36**	20.14	21.00
		HIGH	99	64QAM	20.12	20.06	20.01	21.00
	50	LOW	0	64QAM	19.89	19.92	19.96	21.00
		MID	24	64QAM	20.04	19.97	20.04	21.00
		HIGH	50	64QAM	19.95	20.11	19.79	21.00
	100	LOW	0	64QAM	19.84	20.20	20.08	21.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	18.98	18.96	18.93	20.00
		MID	3	QPSK	19.03	19.17	19.08	20.00
		HIGH	5	QPSK	18.88	18.99	18.91	20.00
	3	LOW	0	QPSK	19.13	19.09	19.01	20.00
		MID	1	QPSK	19.08	19.18	19.09	20.00
		HIGH	3	QPSK	19.10	19.10	19.06	20.00
	6	LOW	0	QPSK	19.01	19.02	18.98	20.00
1.4	1	LOW	0	Q16	18.89	19.20	18.78	20.00
		MID	3	Q16	19.06	19.37	18.94	20.00
		HIGH	5	Q16	18.85	19.23	18.77	20.00
	3	LOW	0	Q16	19.17	19.33	19.20	20.00
		MID	1	Q16	19.08	19.31	19.24	20.00
		HIGH	3	Q16	19.10	19.34	19.21	20.00
	6	LOW	0	Q16	19.16	18.93	19.13	20.00
1.4	1	LOW	0	64QAM	18.86	19.16	18.66	20.00
		MID	12	64QAM	19.06	19.29	18.99	20.00
		HIGH	24	64QAM	18.82	19.24	18.64	20.00
	3	LOW	0	64QAM	19.23	19.26	19.34	20.00
		MID	7	64QAM	19.02	19.21	19.37	20.00
		HIGH	13	64QAM	18.95	19.28	19.11	20.00
	6	LOW	0	64QAM	19.23	18.95	18.98	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	0	QPSK	18.82	18.85	18.69	20.00
		MID	25	QPSK	19.16	19.10	19.21	20.00
		HIGH	49	QPSK	19.06	19.01	18.93	20.00
	8	LOW	0	QPSK	18.89	19.04	19.04	20.00
		MID	12	QPSK	18.94	19.00	18.92	20.00
		HIGH	25	QPSK	19.10	19.05	18.77	20.00
	15	LOW	0	QPSK	19.10	18.97	19.11	20.00
3	1	LOW	0	Q16	19.02	19.25	18.97	20.00
		MID	25	Q16	19.54	19.47	19.33	20.00
		HIGH	49	Q16	19.25	19.13	19.00	20.00
	8	LOW	0	Q16	19.05	18.95	18.84	20.00
		MID	12	Q16	18.96	19.30	19.11	20.00
		HIGH	25	Q16	18.91	19.22	18.93	20.00
	15	LOW	0	Q16	19.07	18.97	19.14	20.00
3	1	LOW	0	64QAM	19.06	19.18	19.17	20.00
		MID	25	64QAM	19.39	19.46	19.49	20.00
		HIGH	49	64QAM	19.13	19.15	19.22	20.00
	8	LOW	0	64QAM	19.06	19.07	19.07	20.00
		MID	12	64QAM	19.03	19.22	19.15	20.00
		HIGH	25	64QAM	18.99	19.04	18.87	20.00
	15	LOW	0	64QAM	18.98	19.16	19.15	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	0	QPSK	18.80	18.96	18.87	20.00
		MID	12	QPSK	19.05	19.30	19.14	20.00
		HIGH	24	QPSK	18.87	19.00	18.93	20.00
	12	LOW	0	QPSK	18.99	19.09	19.03	20.00
		MID	7	QPSK	19.04	19.23	19.16	20.00
		HIGH	13	QPSK	19.12	19.17	18.97	20.00
	25	LOW	0	QPSK	19.09	19.22	19.10	20.00
5	1	LOW	0	Q16	19.29	19.09	19.05	20.00
		MID	12	Q16	19.29	19.66	19.25	20.00
		HIGH	24	Q16	19.18	19.30	19.18	20.00
	12	LOW	0	Q16	18.90	19.14	19.13	20.00
		MID	7	Q16	19.03	19.09	19.10	20.00
		HIGH	13	Q16	19.07	19.06	19.01	20.00
	25	LOW	0	Q16	19.01	19.07	19.03	20.00
5	1	LOW	0	64QAM	19.01	19.21	19.12	20.00
		MID	12	64QAM	19.28	19.42	19.39	20.00
		HIGH	24	64QAM	19.27	19.30	19.06	20.00
	12	LOW	0	64QAM	18.77	19.23	19.13	20.00
		MID	7	64QAM	19.10	19.22	19.00	20.00
		HIGH	13	64QAM	18.96	19.09	18.98	20.00
	25	LOW	0	64QAM	19.08	19.21	18.93	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	0	QPSK	18.90	18.88	18.93	20.00
		MID	25	QPSK	19.22	19.25	19.17	20.00
		HIGH	49	QPSK	18.89	18.92	18.74	20.00
	25	LOW	0	QPSK	18.71	19.10	18.98	20.00
		MID	12	QPSK	18.90	18.93	18.99	20.00
		HIGH	25	QPSK	18.85	19.15	18.96	20.00
	50	LOW	0	QPSK	18.89	19.23	19.10	20.00
10	1	LOW	0	Q16	19.16	19.10	19.25	20.00
		MID	25	Q16	19.54	19.40	19.23	20.00
		HIGH	49	Q16	19.26	19.34	18.99	20.00
	25	LOW	0	Q16	18.81	19.00	18.94	20.00
		MID	12	Q16	19.02	19.18	19.12	20.00
		HIGH	25	Q16	19.08	19.28	18.98	20.00
	50	LOW	0	Q16	18.94	19.20	19.11	20.00
10	1	LOW	0	64QAM	19.05	19.13	19.12	20.00
		MID	25	64QAM	19.51	19.47	19.43	20.00
		HIGH	49	64QAM	19.21	19.24	18.97	20.00
	25	LOW	0	64QAM	18.96	19.02	19.05	20.00
		MID	12	64QAM	19.19	19.09	19.01	20.00
		HIGH	25	64QAM	19.00	19.33	18.84	20.00
	50	LOW	0	64QAM	18.92	19.17	18.88	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	0	QPSK	18.64	18.87	18.78	20.00
		MID	37	QPSK	19.22	19.16	19.15	20.00
		HIGH	74	QPSK	18.94	18.92	18.88	20.00
	36	LOW	0	QPSK	18.98	19.10	18.96	20.00
		MID	20	QPSK	18.91	18.93	18.92	20.00
		HIGH	39	QPSK	19.08	19.11	18.78	20.00
	75	LOW	0	QPSK	18.83	19.11	19.03	20.00
15	1	LOW	0	Q16	19.09	19.00	19.07	20.00
		MID	37	Q16	19.29	19.42	19.47	20.00
		HIGH	74	Q16	19.22	19.38	19.04	20.00
	36	LOW	0	Q16	18.95	19.15	19.12	20.00
		MID	20	Q16	19.18	19.12	18.88	20.00
		HIGH	39	Q16	18.95	19.20	18.85	20.00
	75	LOW	0	Q16	19.11	19.08	18.95	20.00
15	1	LOW	0	64QAM	19.01	19.08	19.07	20.00
		MID	37	64QAM	19.27	19.61	19.40	20.00
		HIGH	74	64QAM	19.30	19.25	18.99	20.00
	36	LOW	0	64QAM	18.90	19.23	19.05	20.00
		MID	20	64QAM	19.20	19.23	19.08	20.00
		HIGH	39	64QAM	18.86	19.05	18.85	20.00
	75	LOW	0	64QAM	19.01	19.12	19.04	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	0	QPSK	18.77	18.86	18.82	20.00
		MID	49	QPSK	19.15	**19.22**	19.11	20.00
		HIGH	99	QPSK	18.91	18.96	18.85	20.00
	50	LOW	0	QPSK	18.85	19.03	18.97	20.00
		MID	24	QPSK	19.01	19.08	19.07	20.00
		HIGH	50	QPSK	18.97	19.10	18.92	20.00
	100	LOW	0	QPSK	18.97	19.09	18.97	20.00
20	1	LOW	0	Q16	19.14	19.14	19.11	20.00
		MID	49	Q16	19.42	**19.55**	19.34	20.00
		HIGH	99	Q16	19.24	19.27	19.12	20.00
	50	LOW	0	Q16	18.91	19.09	18.98	20.00
		MID	24	Q16	19.05	19.15	19.03	20.00
		HIGH	50	Q16	19.01	19.18	18.97	20.00
	100	LOW	0	Q16	18.99	19.09	19.01	20.00
20	1	LOW	0	64QAM	19.12	19.13	19.20	20.00
		MID	49	64QAM	19.32	**19.65**	19.20	20.00
		HIGH	99	64QAM	19.27	19.38	19.23	20.00
	50	LOW	0	64QAM	18.84	19.20	18.84	20.00
		MID	24	64QAM	19.04	19.22	18.96	20.00
		HIGH	50	64QAM	18.87	19.05	19.07	20.00
	100	LOW	0	64QAM	18.92	18.99	18.91	20.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	18.98	18.96	18.93	20.00
		MID	3	QPSK	19.03	19.17	19.08	20.00
		HIGH	5	QPSK	18.88	18.99	18.91	20.00
	3	LOW	0	QPSK	19.13	19.09	19.01	20.00
		MID	1	QPSK	19.08	19.18	19.09	20.00
		HIGH	3	QPSK	19.10	19.10	19.06	20.00
	6	LOW	0	QPSK	19.01	19.02	18.98	20.00
1.4	1	LOW	0	Q16	18.89	19.20	18.78	20.00
		MID	3	Q16	19.06	19.37	18.94	20.00
		HIGH	5	Q16	18.85	19.23	18.77	20.00
	3	LOW	0	Q16	19.17	19.33	19.20	20.00
		MID	1	Q16	19.08	19.31	19.24	20.00
		HIGH	3	Q16	19.10	19.34	19.21	20.00
	6	LOW	0	Q16	19.16	18.93	19.13	20.00
1.4	1	LOW	0	64QAM	18.86	19.16	18.66	20.00
		MID	12	64QAM	19.06	19.29	18.99	20.00
		HIGH	24	64QAM	18.82	19.24	18.64	20.00
	3	LOW	0	64QAM	19.23	19.26	19.34	20.00
		MID	7	64QAM	19.02	19.21	19.37	20.00
		HIGH	13	64QAM	18.95	19.28	19.11	20.00
	6	LOW	0	64QAM	19.23	18.95	18.98	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	0	QPSK	18.82	18.85	18.69	20.00
		MID	25	QPSK	19.16	19.10	19.21	20.00
		HIGH	49	QPSK	19.06	19.01	18.93	20.00
	8	LOW	0	QPSK	18.89	19.04	19.04	20.00
		MID	12	QPSK	18.94	19.00	18.92	20.00
		HIGH	25	QPSK	19.10	19.05	18.77	20.00
	15	LOW	0	QPSK	19.10	18.97	19.11	20.00
3	1	LOW	0	Q16	19.02	19.25	18.97	20.00
		MID	25	Q16	19.54	19.47	19.33	20.00
		HIGH	49	Q16	19.25	19.13	19.00	20.00
	8	LOW	0	Q16	19.05	18.95	18.84	20.00
		MID	12	Q16	18.96	19.30	19.11	20.00
		HIGH	25	Q16	18.91	19.22	18.93	20.00
	15	LOW	0	Q16	19.07	18.97	19.14	20.00
3	1	LOW	0	64QAM	19.06	19.18	19.17	20.00
		MID	25	64QAM	19.39	19.46	19.49	20.00
		HIGH	49	64QAM	19.13	19.15	19.22	20.00
	8	LOW	0	64QAM	19.06	19.07	19.07	20.00
		MID	12	64QAM	19.03	19.22	19.15	20.00
		HIGH	25	64QAM	18.99	19.04	18.87	20.00
	15	LOW	0	64QAM	18.98	19.16	19.15	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	0	QPSK	18.80	18.96	18.87	20.00
		MID	12	QPSK	19.05	19.30	19.14	20.00
		HIGH	24	QPSK	18.87	19.00	18.93	20.00
	12	LOW	0	QPSK	18.99	19.09	19.03	20.00
		MID	7	QPSK	19.04	19.23	19.16	20.00
		HIGH	13	QPSK	19.12	19.17	18.97	20.00
	25	LOW	0	QPSK	19.09	19.22	19.10	20.00
5	1	LOW	0	Q16	19.29	19.09	19.05	20.00
		MID	12	Q16	19.29	19.66	19.25	20.00
		HIGH	24	Q16	19.18	19.30	19.18	20.00
	12	LOW	0	Q16	18.90	19.14	19.13	20.00
		MID	7	Q16	19.03	19.09	19.10	20.00
		HIGH	13	Q16	19.07	19.06	19.01	20.00
	25	LOW	0	Q16	19.01	19.07	19.03	20.00
5	1	LOW	0	64QAM	19.01	19.21	19.12	20.00
		MID	12	64QAM	19.28	19.42	19.39	20.00
		HIGH	24	64QAM	19.27	19.30	19.06	20.00
	12	LOW	0	64QAM	18.77	19.23	19.13	20.00
		MID	7	64QAM	19.10	19.22	19.00	20.00
		HIGH	13	64QAM	18.96	19.09	18.98	20.00
	25	LOW	0	64QAM	19.08	19.21	18.93	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	0	QPSK	18.90	18.88	18.93	20.00
		MID	25	QPSK	19.22	19.25	19.17	20.00
		HIGH	49	QPSK	18.89	18.92	18.74	20.00
	25	LOW	0	QPSK	18.71	19.10	18.98	20.00
		MID	12	QPSK	18.90	18.93	18.99	20.00
		HIGH	25	QPSK	18.85	19.15	18.96	20.00
	50	LOW	0	QPSK	18.89	19.23	19.10	20.00
10	1	LOW	0	Q16	19.16	19.10	19.25	20.00
		MID	25	Q16	19.54	19.40	19.23	20.00
		HIGH	49	Q16	19.26	19.34	18.99	20.00
	25	LOW	0	Q16	18.81	19.00	18.94	20.00
		MID	12	Q16	19.02	19.18	19.12	20.00
		HIGH	25	Q16	19.08	19.28	18.98	20.00
	50	LOW	0	Q16	18.94	19.20	19.11	20.00
10	1	LOW	0	64QAM	19.05	19.13	19.12	20.00
		MID	25	64QAM	19.51	19.47	19.43	20.00
		HIGH	49	64QAM	19.21	19.24	18.97	20.00
	25	LOW	0	64QAM	18.96	19.02	19.05	20.00
		MID	12	64QAM	19.19	19.09	19.01	20.00
		HIGH	25	64QAM	19.00	19.33	18.84	20.00
	50	LOW	0	64QAM	18.92	19.17	18.88	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	0	QPSK	18.64	18.87	18.78	20.00
		MID	37	QPSK	19.22	19.16	19.15	20.00
		HIGH	74	QPSK	18.94	18.92	18.88	20.00
	36	LOW	0	QPSK	18.98	19.10	18.96	20.00
		MID	20	QPSK	18.91	18.93	18.92	20.00
		HIGH	39	QPSK	19.08	19.11	18.78	20.00
	75	LOW	0	QPSK	18.83	19.11	19.03	20.00
15	1	LOW	0	Q16	19.09	19.00	19.07	20.00
		MID	37	Q16	19.29	19.42	19.47	20.00
		HIGH	74	Q16	19.22	19.38	19.04	20.00
	36	LOW	0	Q16	18.95	19.15	19.12	20.00
		MID	20	Q16	19.18	19.12	18.88	20.00
		HIGH	39	Q16	18.95	19.20	18.85	20.00
	75	LOW	0	Q16	19.11	19.08	18.95	20.00
15	1	LOW	0	64QAM	19.01	19.08	19.07	20.00
		MID	37	64QAM	19.27	19.61	19.40	20.00
		HIGH	74	64QAM	19.30	19.25	18.99	20.00
	36	LOW	0	64QAM	18.90	19.23	19.05	20.00
		MID	20	64QAM	19.20	19.23	19.08	20.00
		HIGH	39	64QAM	18.86	19.05	18.85	20.00
	75	LOW	0	64QAM	19.01	19.12	19.04	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	0	QPSK	18.77	18.86	18.82	20.00
		MID	49	QPSK	19.15	**19.22**	19.11	20.00
		HIGH	99	QPSK	18.91	18.96	18.85	20.00
	50	LOW	0	QPSK	18.85	19.03	18.97	20.00
		MID	24	QPSK	19.01	19.08	19.07	20.00
		HIGH	50	QPSK	18.97	19.10	18.92	20.00
	100	LOW	0	QPSK	18.97	19.09	18.97	20.00
20	1	LOW	0	Q16	19.14	19.14	19.11	20.00
		MID	49	Q16	19.42	**19.55**	19.34	20.00
		HIGH	99	Q16	19.24	19.27	19.12	20.00
	50	LOW	0	Q16	18.91	19.09	18.98	20.00
		MID	24	Q16	19.05	19.15	19.03	20.00
		HIGH	50	Q16	19.01	19.18	18.97	20.00
	100	LOW	0	Q16	18.99	19.09	19.01	20.00
20	1	LOW	0	64QAM	19.12	19.13	19.20	20.00
		MID	49	64QAM	19.32	**19.65**	19.20	20.00
		HIGH	99	64QAM	19.27	19.38	19.23	20.00
	50	LOW	0	64QAM	18.84	19.20	18.84	20.00
		MID	24	64QAM	19.04	19.22	18.96	20.00
		HIGH	50	64QAM	18.87	19.05	19.07	20.00
	100	LOW	0	64QAM	18.92	18.99	18.91	20.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	22.36	22.45	22.39	24.00
		MID	3	QPSK	22.50	22.50	22.58	24.00
		HIGH	5	QPSK	22.50	22.50	22.44	24.00
	3	LOW	0	QPSK	22.63	22.46	22.50	24.00
		MID	1	QPSK	22.56	22.54	22.57	24.00
		HIGH	3	QPSK	22.42	**22.65**	22.59	24.00
	6	LOW	0	QPSK	21.59	21.56	21.52	23.00
1.4	1	LOW	0	Q16	21.23	21.60	21.21	23.00
		MID	3	Q16	21.62	21.85	21.30	23.00
		HIGH	5	Q16	21.31	21.67	21.24	23.00
	3	LOW	0	Q16	21.61	21.80	21.73	23.00
		MID	1	Q16	21.52	21.70	21.58	23.00
		HIGH	3	Q16	21.56	21.76	21.58	23.00
	6	LOW	0	Q16	20.69	20.36	20.57	22.00
1.4	1	LOW	0	64QAM	20.36	20.60	20.21	22.00
		MID	12	64QAM	20.36	20.95	20.37	22.00
		HIGH	24	64QAM	20.14	20.60	20.15	22.00
	3	LOW	0	64QAM	20.58	20.74	20.79	22.00
		MID	7	64QAM	20.67	20.78	20.84	22.00
		HIGH	13	64QAM	20.51	20.43	20.81	22.00
	6	LOW	0	64QAM	19.49	19.25	19.51	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	0	QPSK	22.39	22.27	22.40	24.00
		MID	25	QPSK	22.64	**22.85**	22.83	24.00
		HIGH	49	QPSK	22.31	22.56	22.50	24.00
	8	LOW	0	QPSK	21.44	21.43	21.48	23.00
		MID	12	QPSK	21.40	21.77	21.72	23.00
		HIGH	25	QPSK	21.59	21.48	21.33	23.00
	15	LOW	0	QPSK	21.42	21.77	21.61	23.00
3	1	LOW	0	Q16	21.50	21.69	21.72	23.00
		MID	25	Q16	21.63	22.04	21.96	23.00
		HIGH	49	Q16	21.54	21.75	21.73	23.00
	8	LOW	0	Q16	20.31	20.70	20.49	22.00
		MID	12	Q16	20.46	20.81	20.50	22.00
		HIGH	25	Q16	20.51	20.76	20.42	22.00
	15	LOW	0	Q16	20.52	20.62	20.28	22.00
3	1	LOW	0	64QAM	20.72	20.71	20.86	22.00
		MID	25	64QAM	20.76	21.03	21.09	22.00
		HIGH	49	64QAM	20.56	20.66	20.72	22.00
	8	LOW	0	64QAM	19.27	19.54	19.54	21.00
		MID	12	64QAM	19.55	19.80	19.73	21.00
		HIGH	25	64QAM	19.40	19.52	19.42	21.00
	15	LOW	0	64QAM	19.62	19.75	19.50	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	0	QPSK	22.25	22.46	22.34	24.00
		MID	12	QPSK	22.65	22.61	**22.78**	24.00
		HIGH	24	QPSK	22.28	22.34	22.47	24.00
	12	LOW	0	QPSK	21.49	21.50	21.47	23.00
		MID	7	QPSK	21.70	21.36	21.54	23.00
		HIGH	13	QPSK	21.55	21.67	21.55	23.00
	25	LOW	0	QPSK	21.43	21.67	21.41	23.00
5	1	LOW	0	Q16	21.50	21.86	21.87	23.00
		MID	12	Q16	21.64	22.17	21.82	23.00
		HIGH	24	Q16	21.69	21.71	21.71	23.00
	12	LOW	0	Q16	20.46	20.59	20.43	22.00
		MID	7	Q16	20.35	20.66	20.73	22.00
		HIGH	13	Q16	20.44	20.64	20.47	22.00
	25	LOW	0	Q16	20.58	20.66	20.59	22.00
5	1	LOW	0	64QAM	20.47	20.61	20.71	22.00
		MID	12	64QAM	20.92	21.13	21.00	22.00
		HIGH	24	64QAM	20.51	20.65	20.78	22.00
	12	LOW	0	64QAM	19.59	19.71	19.63	21.00
		MID	7	64QAM	19.56	19.65	19.79	21.00
		HIGH	13	64QAM	19.55	19.56	19.55	21.00
	25	LOW	0	64QAM	19.49	19.50	19.61	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	0	QPSK	22.27	22.35	22.35	24.00
		MID	25	QPSK	22.68	**22.90**	22.55	24.00
		HIGH	49	QPSK	22.30	22.26	22.59	24.00
	25	LOW	0	QPSK	21.42	21.40	21.44	23.00
		MID	12	QPSK	21.49	21.60	21.54	23.00
		HIGH	25	QPSK	21.61	21.44	21.38	23.00
	50	LOW	0	QPSK	21.38	21.78	21.55	23.00
10	1	LOW	0	Q16	21.66	21.72	21.51	23.00
		MID	25	Q16	21.74	21.84	21.79	23.00
		HIGH	49	Q16	21.81	21.56	21.62	23.00
	25	LOW	0	Q16	20.52	20.72	20.71	22.00
		MID	12	Q16	20.55	20.59	20.69	22.00
		HIGH	25	Q16	20.65	20.63	20.47	22.00
	50	LOW	0	Q16	20.68	20.59	20.47	22.00
10	1	LOW	0	64QAM	20.42	20.53	20.72	22.00
		MID	25	64QAM	20.72	20.90	20.91	22.00
		HIGH	49	64QAM	20.69	20.80	20.79	22.00
	25	LOW	0	64QAM	19.37	19.46	19.52	21.00
		MID	12	64QAM	19.60	19.65	19.82	21.00
		HIGH	25	64QAM	19.59	19.65	19.44	21.00
	50	LOW	0	64QAM	19.49	19.41	19.65	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	0	QPSK	22.26	22.32	22.60	24.00
		MID	37	QPSK	22.55	**22.78**	22.74	24.00
		HIGH	74	QPSK	22.35	22.33	22.40	24.00
	36	LOW	0	QPSK	21.45	21.41	21.55	23.00
		MID	20	QPSK	21.58	21.77	21.66	23.00
		HIGH	39	QPSK	21.53	21.78	21.41	23.00
	75	LOW	0	QPSK	21.44	21.59	21.23	23.00
15	1	LOW	0	Q16	21.61	21.54	21.66	23.00
		MID	37	Q16	21.92	22.01	21.86	23.00
		HIGH	74	Q16	21.54	21.85	21.80	23.00
	36	LOW	0	Q16	20.39	20.57	20.70	22.00
		MID	20	Q16	20.53	20.72	20.78	22.00
		HIGH	39	Q16	20.55	20.63	20.52	22.00
	75	LOW	0	Q16	20.54	20.49	20.57	22.00
15	1	LOW	0	64QAM	20.30	20.58	20.52	22.00
		MID	37	64QAM	20.74	20.93	20.91	22.00
		HIGH	74	64QAM	20.55	20.53	20.43	22.00
	36	LOW	0	64QAM	19.27	19.39	19.28	21.00
		MID	20	64QAM	19.74	19.48	19.73	21.00
		HIGH	39	64QAM	19.37	19.49	19.54	21.00
	75	LOW	0	64QAM	19.49	19.56	19.59	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	0	QPSK	22.27	22.27	22.29	24.00
		MID	49	QPSK	22.70	**22.77**	22.74	24.00
		HIGH	99	QPSK	22.31	22.41	22.47	24.00
	50	LOW	0	QPSK	21.43	21.39	21.44	23.00
		MID	24	QPSK	21.54	21.71	21.60	23.00
		HIGH	50	QPSK	21.49	21.69	21.44	23.00
	100	LOW	0	QPSK	21.45	21.69	21.39	23.00
20	1	LOW	0	Q16	21.47	21.60	21.80	23.00
		MID	49	Q16	21.76	**22.11**	21.96	23.00
		HIGH	99	Q16	21.67	21.80	21.60	23.00
	50	LOW	0	Q16	20.54	20.55	20.57	22.00
		MID	24	Q16	20.56	20.67	20.67	22.00
		HIGH	50	Q16	20.37	20.73	20.53	22.00
	100	LOW	0	Q16	20.46	20.60	20.41	22.00
20	1	LOW	0	64QAM	20.42	20.60	20.61	22.00
		MID	49	64QAM	20.67	**21.14**	20.94	22.00
		HIGH	99	64QAM	20.44	20.74	20.74	22.00
	50	LOW	0	64QAM	19.42	19.62	19.54	21.00
		MID	24	64QAM	19.52	19.51	19.50	21.00
		HIGH	50	64QAM	19.47	19.77	19.35	21.00
	100	LOW	0	64QAM	19.39	19.81	19.56	21.00

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Bandwidth(MHz)	RB Size	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.68	22.82	22.78	24.20
		MID	QPSK	22.88	**23.00**	22.98	24.20
		HIGH	QPSK	22.69	22.82	22.73	24.20
	3	LOW	QPSK	22.80	22.91	22.93	24.20
		MID	QPSK	22.83	22.96	22.93	24.20
		HIGH	QPSK	22.84	22.89	22.96	24.20
	6	LOW	QPSK	21.78	21.88	21.83	23.20
1.4	1	LOW	Q16	21.69	21.97	21.68	23.20
		MID	Q16	21.87	22.13	21.85	23.20
		HIGH	Q16	21.70	22.04	21.68	23.20
	3	LOW	Q16	21.89	22.13	22.10	23.20
		MID	Q16	21.90	22.07	22.13	23.20
		HIGH	Q16	21.88	**22.15**	22.10	23.20
	6	LOW	Q16	20.95	20.80	21.04	22.20
1.4	1	LOW	64QAM	20.76	20.99	20.60	22.20
		MID	64QAM	21.01	20.98	20.80	22.20
		HIGH	64QAM	20.73	20.98	20.55	22.20
	3	LOW	64QAM	20.87	21.06	21.24	22.20
		MID	64QAM	20.96	21.13	21.23	22.20
		HIGH	64QAM	20.97	21.08	20.97	22.20
	6	LOW	64QAM	20.07	19.75	20.03	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	QPSK	22.51	22.80	22.91	24.20
		MID	QPSK	23.05	**23.14**	23.09	24.20
		HIGH	QPSK	22.89	22.67	22.69	24.20
	8	LOW	QPSK	21.72	21.86	21.89	23.20
		MID	QPSK	22.11	22.02	22.06	23.20
		HIGH	QPSK	21.91	21.82	21.82	23.20
	15	LOW	QPSK	21.94	22.03	21.98	23.20
3	1	LOW	Q16	22.07	22.14	22.26	23.20
		MID	Q16	22.35	22.44	**22.48**	23.20
		HIGH	Q16	22.40	22.36	22.24	23.20
	8	LOW	Q16	20.79	21.09	21.07	22.20
		MID	Q16	20.80	21.20	21.03	22.20
		HIGH	Q16	20.88	21.09	21.08	22.20
	15	LOW	Q16	21.03	21.17	20.98	22.20
3	1	LOW	64QAM	21.16	21.11	21.40	22.20
		MID	64QAM	21.36	**21.63**	21.55	22.20
		HIGH	64QAM	21.23	21.35	21.53	22.20
	8	LOW	64QAM	19.85	19.96	19.86	21.20
		MID	64QAM	19.81	19.95	19.95	21.20
		HIGH	64QAM	19.96	19.92	20.02	21.20
	15	LOW	64QAM	19.83	20.00	20.10	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	QPSK	22.77	22.91	22.81	24.20
		MID	QPSK	22.95	**23.18**	23.16	24.20
		HIGH	QPSK	22.74	22.73	22.81	24.20
	12	LOW	QPSK	21.74	21.79	21.82	23.20
		MID	QPSK	22.11	21.89	22.03	23.20
		HIGH	QPSK	22.01	21.99	22.02	23.20
	25	LOW	QPSK	22.01	21.78	22.07	23.20
5	1	LOW	Q16	21.96	22.29	22.15	23.20
		MID	Q16	22.37	22.56	**22.64**	23.20
		HIGH	Q16	22.16	22.28	22.35	23.20
	12	LOW	Q16	20.91	20.87	20.99	22.20
		MID	Q16	20.92	21.06	20.99	22.20
		HIGH	Q16	20.86	21.06	20.85	22.20
	25	LOW	Q16	20.87	21.13	20.85	22.20
5	1	LOW	64QAM	21.06	21.12	21.26	22.20
		MID	64QAM	21.27	21.42	**21.44**	22.20
		HIGH	64QAM	21.32	21.34	21.38	22.20
	12	LOW	64QAM	19.71	19.89	19.97	21.20
		MID	64QAM	19.98	20.12	20.18	21.20
		HIGH	64QAM	19.97	19.99	20.09	21.20
	25	LOW	64QAM	19.84	19.91	20.04	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	QPSK	22.71	22.78	22.85	24.20
		MID	QPSK	23.04	**23.14**	23.05	24.20
		HIGH	QPSK	22.69	22.72	22.95	24.20
	25	LOW	QPSK	21.83	21.83	22.04	23.20
		MID	QPSK	21.89	21.98	21.96	23.20
		HIGH	QPSK	21.96	22.06	21.77	23.20
	50	LOW	QPSK	22.05	21.78	22.09	23.20
10	1	LOW	Q16	22.15	22.33	22.14	23.20
		MID	Q16	22.32	**22.67**	22.50	23.20
		HIGH	Q16	22.21	22.46	22.53	23.20
	25	LOW	Q16	20.73	21.06	20.85	22.20
		MID	Q16	21.06	21.04	21.17	22.20
		HIGH	Q16	20.97	21.02	21.06	22.20
	50	LOW	Q16	20.83	21.16	21.14	22.20
10	1	LOW	64QAM	20.94	21.35	21.24	22.20
		MID	64QAM	21.44	21.52	**21.59**	22.20
		HIGH	64QAM	21.16	21.39	21.30	22.20
	25	LOW	64QAM	19.65	19.81	20.03	21.20
		MID	64QAM	20.03	20.07	20.15	21.20
		HIGH	64QAM	19.89	20.17	20.14	21.20
	50	LOW	64QAM	20.01	19.92	19.88	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	QPSK	22.56	22.90	22.91	24.20
		MID	QPSK	22.94	22.98	**23.10**	24.20
		HIGH	QPSK	22.68	22.71	22.69	24.20
	36	LOW	QPSK	21.89	21.97	21.89	23.20
		MID	QPSK	21.83	21.80	21.93	23.20
		HIGH	QPSK	21.87	22.04	21.86	23.20
	75	LOW	QPSK	21.85	21.88	21.84	23.20
15	1	LOW	Q16	22.17	22.33	22.42	23.20
		MID	Q16	22.29	**22.53**	22.51	23.20
		HIGH	Q16	22.13	22.20	22.49	23.20
	36	LOW	Q16	20.82	21.02	21.04	22.20
		MID	Q16	20.99	20.94	21.17	22.20
		HIGH	Q16	20.97	21.16	20.95	22.20
	75	LOW	Q16	21.02	21.17	21.03	22.20
15	1	LOW	64QAM	21.03	21.38	21.27	22.20
		MID	64QAM	21.34	21.42	**21.56**	22.20
		HIGH	64QAM	21.16	21.42	21.31	22.20
	36	LOW	64QAM	19.77	20.04	19.89	21.20
		MID	64QAM	20.02	20.19	20.01	21.20
		HIGH	64QAM	19.95	19.90	19.88	21.20
	75	LOW	64QAM	19.98	19.92	20.01	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	QPSK	22.63	22.76	22.84	24.20
		MID	QPSK	22.93	**23.14**	23.10	24.20
		HIGH	QPSK	22.77	22.82	22.84	24.20
	50	LOW	QPSK	21.78	21.88	21.93	23.20
		MID	QPSK	21.96	21.99	21.99	23.20
		HIGH	QPSK	21.92	21.95	21.92	23.20
	100	LOW	QPSK	21.90	21.92	21.99	23.20
20	1	LOW	Q16	22.06	22.26	22.29	23.20
		MID	Q16	22.41	**22.57**	22.51	23.20
		HIGH	Q16	22.26	22.35	22.38	23.20
	50	LOW	Q16	20.80	20.96	20.97	22.20
		MID	Q16	20.95	21.05	21.08	22.20
		HIGH	Q16	20.89	21.02	21.00	22.20
	100	LOW	Q16	20.91	21.02	21.00	22.20
20	1	LOW	64QAM	20.95	21.20	21.27	22.20
		MID	64QAM	21.49	21.43	**21.51**	22.20
		HIGH	64QAM	21.12	21.50	21.36	22.20
	50	LOW	64QAM	19.83	19.84	20.03	21.20
		MID	64QAM	20.05	19.98	19.93	21.20
		HIGH	64QAM	19.81	19.96	20.12	21.20
	100	LOW	64QAM	19.87	20.10	19.94	21.20

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Bandwidth(MHz)	RB Size	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.68	22.82	22.78	24.20
		MID	QPSK	22.88	**23.00**	22.98	24.20
		HIGH	QPSK	22.69	22.82	22.73	24.20
	3	LOW	QPSK	22.80	22.91	22.93	24.20
		MID	QPSK	22.83	22.96	22.93	24.20
		HIGH	QPSK	22.84	22.89	22.96	24.20
	6	LOW	QPSK	21.78	21.88	21.83	23.20
1.4	1	LOW	Q16	21.69	21.97	21.68	23.20
		MID	Q16	21.87	22.13	21.85	23.20
		HIGH	Q16	21.70	22.04	21.68	23.20
	3	LOW	Q16	21.89	22.13	22.10	23.20
		MID	Q16	21.90	22.07	22.13	23.20
		HIGH	Q16	21.88	**22.15**	22.10	23.20
	6	LOW	Q16	20.95	20.80	21.04	22.20
1.4	1	LOW	64QAM	20.76	20.99	20.60	22.20
		MID	64QAM	21.01	20.98	20.80	22.20
		HIGH	64QAM	20.73	20.98	20.55	22.20
	3	LOW	64QAM	20.87	21.06	21.24	22.20
		MID	64QAM	20.96	21.13	21.23	22.20
		HIGH	64QAM	20.97	21.08	20.97	22.20
	6	LOW	64QAM	20.07	19.75	20.03	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	QPSK	22.51	22.80	22.91	24.20
		MID	QPSK	23.05	**23.14**	23.09	24.20
		HIGH	QPSK	22.89	22.67	22.69	24.20
	8	LOW	QPSK	21.72	21.86	21.89	23.20
		MID	QPSK	22.11	22.02	22.06	23.20
		HIGH	QPSK	21.91	21.82	21.82	23.20
	15	LOW	QPSK	21.94	22.03	21.98	23.20
3	1	LOW	Q16	22.07	22.14	22.26	23.20
		MID	Q16	22.35	22.44	**22.48**	23.20
		HIGH	Q16	22.40	22.36	22.24	23.20
	8	LOW	Q16	20.79	21.09	21.07	22.20
		MID	Q16	20.80	21.20	21.03	22.20
		HIGH	Q16	20.88	21.09	21.08	22.20
	15	LOW	Q16	21.03	21.17	20.98	22.20
3	1	LOW	64QAM	21.16	21.11	21.40	22.20
		MID	64QAM	21.36	**21.63**	21.55	22.20
		HIGH	64QAM	21.23	21.35	21.53	22.20
	8	LOW	64QAM	19.85	19.96	19.86	21.20
		MID	64QAM	19.81	19.95	19.95	21.20
		HIGH	64QAM	19.96	19.92	20.02	21.20
	15	LOW	64QAM	19.83	20.00	20.10	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	QPSK	22.77	22.91	22.81	24.20
		MID	QPSK	22.95	**23.18**	23.16	24.20
		HIGH	QPSK	22.74	22.73	22.81	24.20
	12	LOW	QPSK	21.74	21.79	21.82	23.20
		MID	QPSK	22.11	21.89	22.03	23.20
		HIGH	QPSK	22.01	21.99	22.02	23.20
	25	LOW	QPSK	22.01	21.78	22.07	23.20
5	1	LOW	Q16	21.96	22.29	22.15	23.20
		MID	Q16	22.37	22.56	**22.64**	23.20
		HIGH	Q16	22.16	22.28	22.35	23.20
	12	LOW	Q16	20.91	20.87	20.99	22.20
		MID	Q16	20.92	21.06	20.99	22.20
		HIGH	Q16	20.86	21.06	20.85	22.20
	25	LOW	Q16	20.87	21.13	20.85	22.20
5	1	LOW	64QAM	21.06	21.12	21.26	22.20
		MID	64QAM	21.27	21.42	**21.44**	22.20
		HIGH	64QAM	21.32	21.34	21.38	22.20
	12	LOW	64QAM	19.71	19.89	19.97	21.20
		MID	64QAM	19.98	20.12	20.18	21.20
		HIGH	64QAM	19.97	19.99	20.09	21.20
	25	LOW	64QAM	19.84	19.91	20.04	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	QPSK	22.71	22.78	22.85	24.20
		MID	QPSK	23.04	**23.14**	23.05	24.20
		HIGH	QPSK	22.69	22.72	22.95	24.20
	25	LOW	QPSK	21.83	21.83	22.04	23.20
		MID	QPSK	21.89	21.98	21.96	23.20
		HIGH	QPSK	21.96	22.06	21.77	23.20
	50	LOW	QPSK	22.05	21.78	22.09	23.20
10	1	LOW	Q16	22.15	22.33	22.14	23.20
		MID	Q16	22.32	**22.67**	22.50	23.20
		HIGH	Q16	22.21	22.46	22.53	23.20
	25	LOW	Q16	20.73	21.06	20.85	22.20
		MID	Q16	21.06	21.04	21.17	22.20
		HIGH	Q16	20.97	21.02	21.06	22.20
	50	LOW	Q16	20.83	21.16	21.14	22.20
10	1	LOW	64QAM	20.94	21.35	21.24	22.20
		MID	64QAM	21.44	21.52	**21.59**	22.20
		HIGH	64QAM	21.16	21.39	21.30	22.20
	25	LOW	64QAM	19.65	19.81	20.03	21.20
		MID	64QAM	20.03	20.07	20.15	21.20
		HIGH	64QAM	19.89	20.17	20.14	21.20
	50	LOW	64QAM	20.01	19.92	19.88	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	QPSK	22.56	22.90	22.91	24.20
		MID	QPSK	22.94	22.98	**23.10**	24.20
		HIGH	QPSK	22.68	22.71	22.69	24.20
	36	LOW	QPSK	21.89	21.97	21.89	23.20
		MID	QPSK	21.83	21.80	21.93	23.20
		HIGH	QPSK	21.87	22.04	21.86	23.20
	75	LOW	QPSK	21.85	21.88	21.84	23.20
15	1	LOW	Q16	22.17	22.33	22.42	23.20
		MID	Q16	22.29	**22.53**	22.51	23.20
		HIGH	Q16	22.13	22.20	22.49	23.20
	36	LOW	Q16	20.82	21.02	21.04	22.20
		MID	Q16	20.99	20.94	21.17	22.20
		HIGH	Q16	20.97	21.16	20.95	22.20
	75	LOW	Q16	21.02	21.17	21.03	22.20
15	1	LOW	64QAM	21.03	21.38	21.27	22.20
		MID	64QAM	21.34	21.42	**21.56**	22.20
		HIGH	64QAM	21.16	21.42	21.31	22.20
	36	LOW	64QAM	19.77	20.04	19.89	21.20
		MID	64QAM	20.02	20.19	20.01	21.20
		HIGH	64QAM	19.95	19.90	19.88	21.20
	75	LOW	64QAM	19.98	19.92	20.01	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	QPSK	22.63	22.76	22.84	24.20
		MID	QPSK	22.93	**23.14**	23.10	24.20
		HIGH	QPSK	22.77	22.82	22.84	24.20
	50	LOW	QPSK	21.78	21.88	21.93	23.20
		MID	QPSK	21.96	21.99	21.99	23.20
		HIGH	QPSK	21.92	21.95	21.92	23.20
	100	LOW	QPSK	21.90	21.92	21.99	23.20
20	1	LOW	Q16	22.06	22.26	22.29	23.20
		MID	Q16	22.41	**22.57**	22.51	23.20
		HIGH	Q16	22.26	22.35	22.38	23.20
	50	LOW	Q16	20.80	20.96	20.97	22.20
		MID	Q16	20.95	21.05	21.08	22.20
		HIGH	Q16	20.89	21.02	21.00	22.20
	100	LOW	Q16	20.91	21.02	21.00	22.20
20	1	LOW	64QAM	20.95	21.20	21.27	22.20
		MID	64QAM	21.49	21.43	**21.51**	22.20
		HIGH	64QAM	21.12	21.50	21.36	22.20
	50	LOW	64QAM	19.83	19.84	20.03	21.20
		MID	64QAM	20.05	19.98	19.93	21.20
		HIGH	64QAM	19.81	19.96	20.12	21.20
	100	LOW	64QAM	19.87	20.10	19.94	21.20

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Bandwidth(MHz)	RB Size	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.68	22.82	22.78	24.20
		MID	QPSK	22.88	**23.00**	22.98	24.20
		HIGH	QPSK	22.69	22.82	22.73	24.20
	3	LOW	QPSK	22.80	22.91	22.93	24.20
		MID	QPSK	22.83	22.96	22.93	24.20
		HIGH	QPSK	22.84	22.89	22.96	24.20
	6	LOW	QPSK	21.78	21.88	21.83	23.20
1.4	1	LOW	Q16	21.69	21.97	21.68	23.20
		MID	Q16	21.87	22.13	21.85	23.20
		HIGH	Q16	21.70	22.04	21.68	23.20
	3	LOW	Q16	21.89	22.13	22.10	23.20
		MID	Q16	21.90	22.07	22.13	23.20
		HIGH	Q16	21.88	**22.15**	22.10	23.20
	6	LOW	Q16	20.95	20.80	21.04	22.20
1.4	1	LOW	64QAM	20.76	20.99	20.60	22.20
		MID	64QAM	21.01	20.98	20.80	22.20
		HIGH	64QAM	20.73	20.98	20.55	22.20
	3	LOW	64QAM	20.87	21.06	21.24	22.20
		MID	64QAM	20.96	21.13	21.23	22.20
		HIGH	64QAM	20.97	21.08	20.97	22.20
	6	LOW	64QAM	20.07	19.75	20.03	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	QPSK	22.51	22.80	22.91	24.20
		MID	QPSK	23.05	**23.14**	23.09	24.20
		HIGH	QPSK	22.89	22.67	22.69	24.20
	8	LOW	QPSK	21.72	21.86	21.89	23.20
		MID	QPSK	22.11	22.02	22.06	23.20
		HIGH	QPSK	21.91	21.82	21.82	23.20
	15	LOW	QPSK	21.94	22.03	21.98	23.20
3	1	LOW	Q16	22.07	22.14	22.26	23.20
		MID	Q16	22.35	22.44	**22.48**	23.20
		HIGH	Q16	22.40	22.36	22.24	23.20
	8	LOW	Q16	20.79	21.09	21.07	22.20
		MID	Q16	20.80	21.20	21.03	22.20
		HIGH	Q16	20.88	21.09	21.08	22.20
	15	LOW	Q16	21.03	21.17	20.98	22.20
3	1	LOW	64QAM	21.16	21.11	21.40	22.20
		MID	64QAM	21.36	**21.63**	21.55	22.20
		HIGH	64QAM	21.23	21.35	21.53	22.20
	8	LOW	64QAM	19.85	19.96	19.86	21.20
		MID	64QAM	19.81	19.95	19.95	21.20
		HIGH	64QAM	19.96	19.92	20.02	21.20
	15	LOW	64QAM	19.83	20.00	20.10	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	QPSK	22.77	22.91	22.81	24.20
		MID	QPSK	22.95	**23.18**	23.16	24.20
		HIGH	QPSK	22.74	22.73	22.81	24.20
	12	LOW	QPSK	21.74	21.79	21.82	23.20
		MID	QPSK	22.11	21.89	22.03	23.20
		HIGH	QPSK	22.01	21.99	22.02	23.20
	25	LOW	QPSK	22.01	21.78	22.07	23.20
5	1	LOW	Q16	21.96	22.29	22.15	23.20
		MID	Q16	22.37	22.56	**22.64**	23.20
		HIGH	Q16	22.16	22.28	22.35	23.20
	12	LOW	Q16	20.91	20.87	20.99	22.20
		MID	Q16	20.92	21.06	20.99	22.20
		HIGH	Q16	20.86	21.06	20.85	22.20
	25	LOW	Q16	20.87	21.13	20.85	22.20
5	1	LOW	64QAM	21.06	21.12	21.26	22.20
		MID	64QAM	21.27	21.42	**21.44**	22.20
		HIGH	64QAM	21.32	21.34	21.38	22.20
	12	LOW	64QAM	19.71	19.89	19.97	21.20
		MID	64QAM	19.98	20.12	20.18	21.20
		HIGH	64QAM	19.97	19.99	20.09	21.20
	25	LOW	64QAM	19.84	19.91	20.04	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	QPSK	22.71	22.78	22.85	24.20
		MID	QPSK	23.04	**23.14**	23.05	24.20
		HIGH	QPSK	22.69	22.72	22.95	24.20
	25	LOW	QPSK	21.83	21.83	22.04	23.20
		MID	QPSK	21.89	21.98	21.96	23.20
		HIGH	QPSK	21.96	22.06	21.77	23.20
	50	LOW	QPSK	22.05	21.78	22.09	23.20
10	1	LOW	Q16	22.15	22.33	22.14	23.20
		MID	Q16	22.32	**22.67**	22.50	23.20
		HIGH	Q16	22.21	22.46	22.53	23.20
	25	LOW	Q16	20.73	21.06	20.85	22.20
		MID	Q16	21.06	21.04	21.17	22.20
		HIGH	Q16	20.97	21.02	21.06	22.20
	50	LOW	Q16	20.83	21.16	21.14	22.20
10	1	LOW	64QAM	20.94	21.35	21.24	22.20
		MID	64QAM	21.44	21.52	**21.59**	22.20
		HIGH	64QAM	21.16	21.39	21.30	22.20
	25	LOW	64QAM	19.65	19.81	20.03	21.20
		MID	64QAM	20.03	20.07	20.15	21.20
		HIGH	64QAM	19.89	20.17	20.14	21.20
	50	LOW	64QAM	20.01	19.92	19.88	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	QPSK	22.56	22.90	22.91	24.20
		MID	QPSK	22.94	22.98	**23.10**	24.20
		HIGH	QPSK	22.68	22.71	22.69	24.20
	36	LOW	QPSK	21.89	21.97	21.89	23.20
		MID	QPSK	21.83	21.80	21.93	23.20
		HIGH	QPSK	21.87	22.04	21.86	23.20
	75	LOW	QPSK	21.85	21.88	21.84	23.20
15	1	LOW	Q16	22.17	22.33	22.42	23.20
		MID	Q16	22.29	**22.53**	22.51	23.20
		HIGH	Q16	22.13	22.20	22.49	23.20
	36	LOW	Q16	20.82	21.02	21.04	22.20
		MID	Q16	20.99	20.94	21.17	22.20
		HIGH	Q16	20.97	21.16	20.95	22.20
	75	LOW	Q16	21.02	21.17	21.03	22.20
15	1	LOW	64QAM	21.03	21.38	21.27	22.20
		MID	64QAM	21.34	21.42	**21.56**	22.20
		HIGH	64QAM	21.16	21.42	21.31	22.20
	36	LOW	64QAM	19.77	20.04	19.89	21.20
		MID	64QAM	20.02	20.19	20.01	21.20
		HIGH	64QAM	19.95	19.90	19.88	21.20
	75	LOW	64QAM	19.98	19.92	20.01	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	QPSK	22.63	22.76	22.84	24.20
		MID	QPSK	22.93	**23.14**	23.10	24.20
		HIGH	QPSK	22.77	22.82	22.84	24.20
	50	LOW	QPSK	21.78	21.88	21.93	23.20
		MID	QPSK	21.96	21.99	21.99	23.20
		HIGH	QPSK	21.92	21.95	21.92	23.20
	100	LOW	QPSK	21.90	21.92	21.99	23.20
20	1	LOW	Q16	22.06	22.26	22.29	23.20
		MID	Q16	22.41	**22.57**	22.51	23.20
		HIGH	Q16	22.26	22.35	22.38	23.20
	50	LOW	Q16	20.80	20.96	20.97	22.20
		MID	Q16	20.95	21.05	21.08	22.20
		HIGH	Q16	20.89	21.02	21.00	22.20
	100	LOW	Q16	20.91	21.02	21.00	22.20
20	1	LOW	64QAM	20.95	21.20	21.27	22.20
		MID	64QAM	21.49	21.43	**21.51**	22.20
		HIGH	64QAM	21.12	21.50	21.36	22.20
	50	LOW	64QAM	19.83	19.84	20.03	21.20
		MID	64QAM	20.05	19.98	19.93	21.20
		HIGH	64QAM	19.81	19.96	20.12	21.20
	100	LOW	64QAM	19.87	20.10	19.94	21.20

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Bandwidth(MHz)	RB Size	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	QPSK	21.89	21.95	21.90	23.20
		MID	QPSK	22.00	**22.14**	22.07	23.20
		HIGH	QPSK	21.89	21.95	21.91	23.20
	3	LOW	QPSK	22.03	22.07	22.07	23.20
		MID	QPSK	22.04	22.11	22.06	23.20
		HIGH	QPSK	21.98	22.08	22.09	23.20
	6	LOW	QPSK	21.92	22.00	21.95	23.20
1.4	1	LOW	Q16	21.81	22.10	21.75	23.20
		MID	Q16	21.99	22.27	21.96	23.20
		HIGH	Q16	21.81	22.15	21.80	23.20
	3	LOW	Q16	22.04	22.24	22.22	23.20
		MID	Q16	22.04	22.20	22.16	23.20
		HIGH	Q16	22.03	22.27	**22.30**	23.20
	6	LOW	Q16	21.11	20.93	21.19	22.20
1.4	1	LOW	64QAM	20.93	21.22	20.89	22.20
		MID	64QAM	21.09	21.36	20.99	22.20
		HIGH	64QAM	20.71	21.30	20.72	22.20
	3	LOW	64QAM	21.01	21.22	21.26	22.20
		MID	64QAM	21.07	21.23	21.10	22.20
		HIGH	64QAM	20.89	21.28	21.23	22.20
	6	LOW	64QAM	20.18	19.78	20.18	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	QPSK	21.72	21.98	21.94	23.20
		MID	QPSK	22.12	22.25	22.20	23.20
		HIGH	QPSK	21.91	22.09	21.96	23.20
	8	LOW	QPSK	21.86	21.82	22.13	23.20
		MID	QPSK	22.09	22.03	22.13	23.20
		HIGH	QPSK	22.02	22.16	22.06	23.20
	15	LOW	QPSK	21.84	21.91	21.97	23.20
3	1	LOW	Q16	21.92	22.02	22.13	23.20
		MID	Q16	22.36	**22.60**	22.33	23.20
		HIGH	Q16	22.34	22.24	22.01	23.20
	8	LOW	Q16	20.87	21.07	21.11	22.20
		MID	Q16	21.19	21.16	21.19	22.20
		HIGH	Q16	20.92	21.05	21.08	22.20
	15	LOW	Q16	20.87	20.98	21.14	22.20
3	1	LOW	64QAM	21.19	21.18	21.15	22.20
		MID	64QAM	21.37	21.58	21.28	22.20
		HIGH	64QAM	21.31	21.21	21.18	22.20
	8	LOW	64QAM	20.03	20.04	20.03	21.20
		MID	64QAM	20.14	20.13	19.98	21.20
		HIGH	64QAM	20.15	19.94	20.16	21.20
	15	LOW	64QAM	20.04	19.89	19.93	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	QPSK	21.78	21.94	21.88	23.20
		MID	QPSK	22.08	22.33	22.14	23.20
		HIGH	QPSK	21.98	21.98	21.81	23.20
	12	LOW	QPSK	21.78	21.83	22.00	23.20
		MID	QPSK	22.07	22.20	22.16	23.20
		HIGH	QPSK	21.88	21.94	22.01	23.20
	25	LOW	QPSK	22.11	21.99	21.92	23.20
5	1	LOW	Q16	22.05	22.22	21.97	23.20
		MID	Q16	22.30	22.30	**22.44**	23.20
		HIGH	Q16	22.36	22.28	22.13	23.20
	12	LOW	Q16	20.78	21.04	21.09	22.20
		MID	Q16	21.09	21.19	21.13	22.20
		HIGH	Q16	21.18	21.06	20.88	22.20
	25	LOW	Q16	21.02	21.09	21.06	22.20
5	1	LOW	64QAM	21.08	21.11	21.21	22.20
		MID	64QAM	21.28	21.52	21.25	22.20
		HIGH	64QAM	21.19	21.24	21.16	22.20
	12	LOW	64QAM	20.07	20.18	20.09	21.20
		MID	64QAM	20.21	20.12	19.95	21.20
		HIGH	64QAM	20.08	20.11	19.90	21.20
	25	LOW	64QAM	**20.15**	20.11	19.99	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	QPSK	21.81	21.95	21.73	23.20
		MID	QPSK	22.01	22.27	22.07	23.20
		HIGH	QPSK	21.88	21.85	21.99	23.20
	25	LOW	QPSK	21.72	22.02	22.19	23.20
		MID	QPSK	22.10	22.11	22.07	23.20
		HIGH	QPSK	21.96	22.01	21.93	23.20
	50	LOW	QPSK	21.93	22.02	21.95	23.20
10	1	LOW	Q16	22.21	22.25	22.05	23.20
		MID	Q16	**22.43**	22.39	22.41	23.20
		HIGH	Q16	22.22	22.22	22.21	23.20
	25	LOW	Q16	20.90	20.89	21.01	22.20
		MID	Q16	20.99	21.17	21.17	22.20
		HIGH	Q16	21.13	20.94	21.03	22.20
	50	LOW	Q16	20.97	20.98	21.05	22.20
10	1	LOW	64QAM	21.16	21.07	20.95	22.20
		MID	64QAM	21.54	21.59	21.37	22.20
		HIGH	64QAM	21.22	21.02	21.18	22.20
	25	LOW	64QAM	19.93	19.89	20.03	21.20
		MID	64QAM	20.21	19.97	20.01	21.20
		HIGH	64QAM	19.94	20.12	19.93	21.20
	50	LOW	64QAM	20.06	20.17	20.17	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	QPSK	21.70	21.89	21.87	23.20
		MID	QPSK	22.04	22.11	22.30	23.20
		HIGH	QPSK	21.97	21.85	21.81	23.20
	36	LOW	QPSK	21.94	21.94	22.02	23.20
		MID	QPSK	21.92	21.91	22.00	23.20
		HIGH	QPSK	22.05	22.00	21.98	23.20
	75	LOW	QPSK	22.04	22.03	22.07	23.20
15	1	LOW	Q16	22.15	22.15	22.21	23.20
		MID	Q16	22.32	22.38	**22.46**	23.20
		HIGH	Q16	22.34	22.10	22.09	23.20
	36	LOW	Q16	20.77	20.98	20.94	22.20
		MID	Q16	21.13	21.00	21.13	22.20
		HIGH	Q16	21.01	20.97	21.15	22.20
	75	LOW	Q16	20.90	21.13	21.01	22.20
15	1	LOW	64QAM	21.15	21.19	20.97	22.20
		MID	64QAM	21.27	21.60	21.45	22.20
		HIGH	64QAM	21.29	21.14	21.09	22.20
	36	LOW	64QAM	19.79	19.95	20.08	21.20
		MID	64QAM	19.91	20.23	20.00	21.20
		HIGH	64QAM	20.18	20.17	19.98	21.20
	75	LOW	64QAM	20.03	20.06	20.12	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	QPSK	21.77	21.89	21.84	23.20
		MID	QPSK	22.09	**22.23**	22.20	23.20
		HIGH	QPSK	21.93	21.96	21.86	23.20
	50	LOW	QPSK	21.86	21.97	22.08	23.20
		MID	QPSK	22.00	22.09	22.06	23.20
		HIGH	QPSK	21.96	22.02	22.02	23.20
	100	LOW	QPSK	21.96	22.01	22.06	23.20
20	1	LOW	Q16	22.06	22.11	22.10	23.20
		MID	Q16	22.41	**22.45**	22.37	23.20
		HIGH	Q16	22.26	22.17	22.15	23.20
	50	LOW	Q16	20.92	21.04	21.06	22.20
		MID	Q16	21.06	21.12	21.05	22.20
		HIGH	Q16	21.04	21.03	21.02	22.20
	100	LOW	Q16	21.00	21.03	21.08	22.20
20	1	LOW	64QAM	20.97	21.10	21.09	22.20
		MID	64QAM	21.48	**21.58**	21.29	22.20
		HIGH	64QAM	21.34	21.10	21.27	22.20
	50	LOW	64QAM	19.85	20.15	20.04	21.20
		MID	64QAM	20.06	20.23	19.97	21.20
		HIGH	64QAM	20.05	19.91	20.04	21.20
	100	LOW	64QAM	20.01	19.98	20.06	21.20

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Bandwidth(MHz)	RB Size	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	QPSK	21.89	21.95	21.90	23.20
		MID	QPSK	22.00	**22.14**	22.07	23.20
		HIGH	QPSK	21.89	21.95	21.91	23.20
	3	LOW	QPSK	22.03	22.07	22.07	23.20
		MID	QPSK	22.04	22.11	22.06	23.20
		HIGH	QPSK	21.98	22.08	22.09	23.20
	6	LOW	QPSK	21.92	22.00	21.95	23.20
1.4	1	LOW	Q16	21.81	22.10	21.75	23.20
		MID	Q16	21.99	22.27	21.96	23.20
		HIGH	Q16	21.81	22.15	21.80	23.20
	3	LOW	Q16	22.04	22.24	22.22	23.20
		MID	Q16	22.04	22.20	22.16	23.20
		HIGH	Q16	22.03	22.27	**22.30**	23.20
	6	LOW	Q16	21.11	20.93	21.19	22.20
1.4	1	LOW	64QAM	20.93	21.22	20.89	22.20
		MID	64QAM	21.09	21.36	20.99	22.20
		HIGH	64QAM	20.71	21.30	20.72	22.20
	3	LOW	64QAM	21.01	21.22	21.26	22.20
		MID	64QAM	21.07	21.23	21.10	22.20
		HIGH	64QAM	20.89	21.28	21.23	22.20
	6	LOW	64QAM	20.18	19.78	20.18	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	QPSK	21.72	21.98	21.94	23.20
		MID	QPSK	22.12	22.25	22.20	23.20
		HIGH	QPSK	21.91	22.09	21.96	23.20
	8	LOW	QPSK	21.86	21.82	22.13	23.20
		MID	QPSK	22.09	22.03	22.13	23.20
		HIGH	QPSK	22.02	22.16	22.06	23.20
	15	LOW	QPSK	21.84	21.91	21.97	23.20
3	1	LOW	Q16	21.92	22.02	22.13	23.20
		MID	Q16	22.36	**22.60**	22.33	23.20
		HIGH	Q16	22.34	22.24	22.01	23.20
	8	LOW	Q16	20.87	21.07	21.11	22.20
		MID	Q16	21.19	21.16	21.19	22.20
		HIGH	Q16	20.92	21.05	21.08	22.20
	15	LOW	Q16	20.87	20.98	21.14	22.20
3	1	LOW	64QAM	21.19	21.18	21.15	22.20
		MID	64QAM	21.37	21.58	21.28	22.20
		HIGH	64QAM	21.31	21.21	21.18	22.20
	8	LOW	64QAM	20.03	20.04	20.03	21.20
		MID	64QAM	20.14	20.13	19.98	21.20
		HIGH	64QAM	20.15	19.94	20.16	21.20
	15	LOW	64QAM	20.04	19.89	19.93	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	QPSK	21.78	21.94	21.88	23.20
		MID	QPSK	22.08	22.33	22.14	23.20
		HIGH	QPSK	21.98	21.98	21.81	23.20
	12	LOW	QPSK	21.78	21.83	22.00	23.20
		MID	QPSK	22.07	22.20	22.16	23.20
		HIGH	QPSK	21.88	21.94	22.01	23.20
	25	LOW	QPSK	22.11	21.99	21.92	23.20
5	1	LOW	Q16	22.05	22.22	21.97	23.20
		MID	Q16	22.30	22.30	**22.44**	23.20
		HIGH	Q16	22.36	22.28	22.13	23.20
	12	LOW	Q16	20.78	21.04	21.09	22.20
		MID	Q16	21.09	21.19	21.13	22.20
		HIGH	Q16	21.18	21.06	20.88	22.20
	25	LOW	Q16	21.02	21.09	21.06	22.20
5	1	LOW	64QAM	21.08	21.11	21.21	22.20
		MID	64QAM	21.28	21.52	21.25	22.20
		HIGH	64QAM	21.19	21.24	21.16	22.20
	12	LOW	64QAM	20.07	20.18	20.09	21.20
		MID	64QAM	20.21	20.12	19.95	21.20
		HIGH	64QAM	20.08	20.11	19.90	21.20
	25	LOW	64QAM	**20.15**	20.11	19.99	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	QPSK	21.81	21.95	21.73	23.20
		MID	QPSK	22.01	22.27	22.07	23.20
		HIGH	QPSK	21.88	21.85	21.99	23.20
	25	LOW	QPSK	21.72	22.02	22.19	23.20
		MID	QPSK	22.10	22.11	22.07	23.20
		HIGH	QPSK	21.96	22.01	21.93	23.20
	50	LOW	QPSK	21.93	22.02	21.95	23.20
10	1	LOW	Q16	22.21	22.25	22.05	23.20
		MID	Q16	**22.43**	22.39	22.41	23.20
		HIGH	Q16	22.22	22.22	22.21	23.20
	25	LOW	Q16	20.90	20.89	21.01	22.20
		MID	Q16	20.99	21.17	21.17	22.20
		HIGH	Q16	21.13	20.94	21.03	22.20
	50	LOW	Q16	20.97	20.98	21.05	22.20
10	1	LOW	64QAM	21.16	21.07	20.95	22.20
		MID	64QAM	21.54	21.59	21.37	22.20
		HIGH	64QAM	21.22	21.02	21.18	22.20
	25	LOW	64QAM	19.93	19.89	20.03	21.20
		MID	64QAM	20.21	19.97	20.01	21.20
		HIGH	64QAM	19.94	20.12	19.93	21.20
	50	LOW	64QAM	20.06	20.17	20.17	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	QPSK	21.70	21.89	21.87	23.20
		MID	QPSK	22.04	22.11	22.30	23.20
		HIGH	QPSK	21.97	21.85	21.81	23.20
	36	LOW	QPSK	21.94	21.94	22.02	23.20
		MID	QPSK	21.92	21.91	22.00	23.20
		HIGH	QPSK	22.05	22.00	21.98	23.20
	75	LOW	QPSK	22.04	22.03	22.07	23.20
15	1	LOW	Q16	22.15	22.15	22.21	23.20
		MID	Q16	22.32	22.38	**22.46**	23.20
		HIGH	Q16	22.34	22.10	22.09	23.20
	36	LOW	Q16	20.77	20.98	20.94	22.20
		MID	Q16	21.13	21.00	21.13	22.20
		HIGH	Q16	21.01	20.97	21.15	22.20
	75	LOW	Q16	20.90	21.13	21.01	22.20
15	1	LOW	64QAM	21.15	21.19	20.97	22.20
		MID	64QAM	21.27	21.60	21.45	22.20
		HIGH	64QAM	21.29	21.14	21.09	22.20
	36	LOW	64QAM	19.79	19.95	20.08	21.20
		MID	64QAM	19.91	20.23	20.00	21.20
		HIGH	64QAM	20.18	20.17	19.98	21.20
	75	LOW	64QAM	20.03	20.06	20.12	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	QPSK	21.77	21.89	21.84	23.20
		MID	QPSK	22.09	**22.23**	22.20	23.20
		HIGH	QPSK	21.93	21.96	21.86	23.20
	50	LOW	QPSK	21.86	21.97	22.08	23.20
		MID	QPSK	22.00	22.09	22.06	23.20
		HIGH	QPSK	21.96	22.02	22.02	23.20
	100	LOW	QPSK	21.96	22.01	22.06	23.20
20	1	LOW	Q16	22.06	22.11	22.10	23.20
		MID	Q16	22.41	**22.45**	22.37	23.20
		HIGH	Q16	22.26	22.17	22.15	23.20
	50	LOW	Q16	20.92	21.04	21.06	22.20
		MID	Q16	21.06	21.12	21.05	22.20
		HIGH	Q16	21.04	21.03	21.02	22.20
	100	LOW	Q16	21.00	21.03	21.08	22.20
20	1	LOW	64QAM	20.97	21.10	21.09	22.20
		MID	64QAM	21.48	**21.58**	21.29	22.20
		HIGH	64QAM	21.34	21.10	21.27	22.20
	50	LOW	64QAM	19.85	20.15	20.04	21.20
		MID	64QAM	20.06	20.23	19.97	21.20
		HIGH	64QAM	20.05	19.91	20.04	21.20
	100	LOW	64QAM	20.01	19.98	20.06	21.20

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Bandwidth(MHz)	RB Size	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	QPSK	21.89	21.95	21.90	23.20
		MID	QPSK	22.00	**22.14**	22.07	23.20
		HIGH	QPSK	21.89	21.95	21.91	23.20
	3	LOW	QPSK	22.03	22.07	22.07	23.20
		MID	QPSK	22.04	22.11	22.06	23.20
		HIGH	QPSK	21.98	22.08	22.09	23.20
	6	LOW	QPSK	21.92	22.00	21.95	23.20
1.4	1	LOW	Q16	21.81	22.10	21.75	23.20
		MID	Q16	21.99	22.27	21.96	23.20
		HIGH	Q16	21.81	22.15	21.80	23.20
	3	LOW	Q16	22.04	22.24	22.22	23.20
		MID	Q16	22.04	22.20	22.16	23.20
		HIGH	Q16	22.03	22.27	**22.30**	23.20
	6	LOW	Q16	21.11	20.93	21.19	22.20
1.4	1	LOW	64QAM	20.93	21.22	20.89	22.20
		MID	64QAM	21.09	21.36	20.99	22.20
		HIGH	64QAM	20.71	21.30	20.72	22.20
	3	LOW	64QAM	21.01	21.22	21.26	22.20
		MID	64QAM	21.07	21.23	21.10	22.20
		HIGH	64QAM	20.89	21.28	21.23	22.20
	6	LOW	64QAM	20.18	19.78	20.18	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	QPSK	21.72	21.98	21.94	23.20
		MID	QPSK	22.12	22.25	22.20	23.20
		HIGH	QPSK	21.91	22.09	21.96	23.20
	8	LOW	QPSK	21.86	21.82	22.13	23.20
		MID	QPSK	22.09	22.03	22.13	23.20
		HIGH	QPSK	22.02	22.16	22.06	23.20
	15	LOW	QPSK	21.84	21.91	21.97	23.20
3	1	LOW	Q16	21.92	22.02	22.13	23.20
		MID	Q16	22.36	**22.60**	22.33	23.20
		HIGH	Q16	22.34	22.24	22.01	23.20
	8	LOW	Q16	20.87	21.07	21.11	22.20
		MID	Q16	21.19	21.16	21.19	22.20
		HIGH	Q16	20.92	21.05	21.08	22.20
	15	LOW	Q16	20.87	20.98	21.14	22.20
3	1	LOW	64QAM	21.19	21.18	21.15	22.20
		MID	64QAM	21.37	21.58	21.28	22.20
		HIGH	64QAM	21.31	21.21	21.18	22.20
	8	LOW	64QAM	20.03	20.04	20.03	21.20
		MID	64QAM	20.14	20.13	19.98	21.20
		HIGH	64QAM	20.15	19.94	20.16	21.20
	15	LOW	64QAM	20.04	19.89	19.93	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	QPSK	21.78	21.94	21.88	23.20
		MID	QPSK	22.08	22.33	22.14	23.20
		HIGH	QPSK	21.98	21.98	21.81	23.20
	12	LOW	QPSK	21.78	21.83	22.00	23.20
		MID	QPSK	22.07	22.20	22.16	23.20
		HIGH	QPSK	21.88	21.94	22.01	23.20
	25	LOW	QPSK	22.11	21.99	21.92	23.20
5	1	LOW	Q16	22.05	22.22	21.97	23.20
		MID	Q16	22.30	22.30	**22.44**	23.20
		HIGH	Q16	22.36	22.28	22.13	23.20
	12	LOW	Q16	20.78	21.04	21.09	22.20
		MID	Q16	21.09	21.19	21.13	22.20
		HIGH	Q16	21.18	21.06	20.88	22.20
	25	LOW	Q16	21.02	21.09	21.06	22.20
5	1	LOW	64QAM	21.08	21.11	21.21	22.20
		MID	64QAM	21.28	21.52	21.25	22.20
		HIGH	64QAM	21.19	21.24	21.16	22.20
	12	LOW	64QAM	20.07	20.18	20.09	21.20
		MID	64QAM	20.21	20.12	19.95	21.20
		HIGH	64QAM	20.08	20.11	19.90	21.20
	25	LOW	64QAM	**20.15**	20.11	19.99	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	QPSK	21.81	21.95	21.73	23.20
		MID	QPSK	22.01	22.27	22.07	23.20
		HIGH	QPSK	21.88	21.85	21.99	23.20
	25	LOW	QPSK	21.72	22.02	22.19	23.20
		MID	QPSK	22.10	22.11	22.07	23.20
		HIGH	QPSK	21.96	22.01	21.93	23.20
	50	LOW	QPSK	21.93	22.02	21.95	23.20
10	1	LOW	Q16	22.21	22.25	22.05	23.20
		MID	Q16	**22.43**	22.39	22.41	23.20
		HIGH	Q16	22.22	22.22	22.21	23.20
	25	LOW	Q16	20.90	20.89	21.01	22.20
		MID	Q16	20.99	21.17	21.17	22.20
		HIGH	Q16	21.13	20.94	21.03	22.20
	50	LOW	Q16	20.97	20.98	21.05	22.20
10	1	LOW	64QAM	21.16	21.07	20.95	22.20
		MID	64QAM	21.54	21.59	21.37	22.20
		HIGH	64QAM	21.22	21.02	21.18	22.20
	25	LOW	64QAM	19.93	19.89	20.03	21.20
		MID	64QAM	20.21	19.97	20.01	21.20
		HIGH	64QAM	19.94	20.12	19.93	21.20
	50	LOW	64QAM	20.06	20.17	20.17	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	QPSK	21.70	21.89	21.87	23.20
		MID	QPSK	22.04	22.11	22.30	23.20
		HIGH	QPSK	21.97	21.85	21.81	23.20
	36	LOW	QPSK	21.94	21.94	22.02	23.20
		MID	QPSK	21.92	21.91	22.00	23.20
		HIGH	QPSK	22.05	22.00	21.98	23.20
	75	LOW	QPSK	22.04	22.03	22.07	23.20
15	1	LOW	Q16	22.15	22.15	22.21	23.20
		MID	Q16	22.32	22.38	**22.46**	23.20
		HIGH	Q16	22.34	22.10	22.09	23.20
	36	LOW	Q16	20.77	20.98	20.94	22.20
		MID	Q16	21.13	21.00	21.13	22.20
		HIGH	Q16	21.01	20.97	21.15	22.20
	75	LOW	Q16	20.90	21.13	21.01	22.20
15	1	LOW	64QAM	21.15	21.19	20.97	22.20
		MID	64QAM	21.27	21.60	21.45	22.20
		HIGH	64QAM	21.29	21.14	21.09	22.20
	36	LOW	64QAM	19.79	19.95	20.08	21.20
		MID	64QAM	19.91	20.23	20.00	21.20
		HIGH	64QAM	20.18	20.17	19.98	21.20
	75	LOW	64QAM	20.03	20.06	20.12	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	QPSK	21.77	21.89	21.84	23.20
		MID	QPSK	22.09	**22.23**	22.20	23.20
		HIGH	QPSK	21.93	21.96	21.86	23.20
	50	LOW	QPSK	21.86	21.97	22.08	23.20
		MID	QPSK	22.00	22.09	22.06	23.20
		HIGH	QPSK	21.96	22.02	22.02	23.20
	100	LOW	QPSK	21.96	22.01	22.06	23.20
20	1	LOW	Q16	22.06	22.11	22.10	23.20
		MID	Q16	22.41	**22.45**	22.37	23.20
		HIGH	Q16	22.26	22.17	22.15	23.20
	50	LOW	Q16	20.92	21.04	21.06	22.20
		MID	Q16	21.06	21.12	21.05	22.20
		HIGH	Q16	21.04	21.03	21.02	22.20
	100	LOW	Q16	21.00	21.03	21.08	22.20
20	1	LOW	64QAM	20.97	21.10	21.09	22.20
		MID	64QAM	21.48	**21.58**	21.29	22.20
		HIGH	64QAM	21.34	21.10	21.27	22.20
	50	LOW	64QAM	19.85	20.15	20.04	21.20
		MID	64QAM	20.06	20.23	19.97	21.20
		HIGH	64QAM	20.05	19.91	20.04	21.20
	100	LOW	64QAM	20.01	19.98	20.06	21.20

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Bandwidth(MHz)	RB Size	RB offest	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	QPSK	21.89	21.95	21.90	23.20
		MID	QPSK	22.00	**22.14**	22.07	23.20
		HIGH	QPSK	21.89	21.95	21.91	23.20
	3	LOW	QPSK	22.03	22.07	22.07	23.20
		MID	QPSK	22.04	22.11	22.06	23.20
		HIGH	QPSK	21.98	22.08	22.09	23.20
	6	LOW	QPSK	21.92	22.00	21.95	23.20
1.4	1	LOW	Q16	21.81	22.10	21.75	23.20
		MID	Q16	21.99	22.27	21.96	23.20
		HIGH	Q16	21.81	22.15	21.80	23.20
	3	LOW	Q16	22.04	22.24	22.22	23.20
		MID	Q16	22.04	22.20	22.16	23.20
		HIGH	Q16	22.03	22.27	**22.30**	23.20
	6	LOW	Q16	21.11	20.93	21.19	22.20
1.4	1	LOW	64QAM	20.93	21.22	20.89	22.20
		MID	64QAM	21.09	21.36	20.99	22.20
		HIGH	64QAM	20.71	21.30	20.72	22.20
	3	LOW	64QAM	21.01	21.22	21.26	22.20
		MID	64QAM	21.07	21.23	21.10	22.20
		HIGH	64QAM	20.89	21.28	21.23	22.20
	6	LOW	64QAM	20.18	19.78	20.18	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	QPSK	21.72	21.98	21.94	23.20
		MID	QPSK	22.12	22.25	22.20	23.20
		HIGH	QPSK	21.91	22.09	21.96	23.20
	8	LOW	QPSK	21.86	21.82	22.13	23.20
		MID	QPSK	22.09	22.03	22.13	23.20
		HIGH	QPSK	22.02	22.16	22.06	23.20
	15	LOW	QPSK	21.84	21.91	21.97	23.20
3	1	LOW	Q16	21.92	22.02	22.13	23.20
		MID	Q16	22.36	**22.60**	22.33	23.20
		HIGH	Q16	22.34	22.24	22.01	23.20
	8	LOW	Q16	20.87	21.07	21.11	22.20
		MID	Q16	21.19	21.16	21.19	22.20
		HIGH	Q16	20.92	21.05	21.08	22.20
	15	LOW	Q16	20.87	20.98	21.14	22.20
3	1	LOW	64QAM	21.19	21.18	21.15	22.20
		MID	64QAM	21.37	21.58	21.28	22.20
		HIGH	64QAM	21.31	21.21	21.18	22.20
	8	LOW	64QAM	20.03	20.04	20.03	21.20
		MID	64QAM	20.14	20.13	19.98	21.20
		HIGH	64QAM	20.15	19.94	20.16	21.20
	15	LOW	64QAM	20.04	19.89	19.93	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	QPSK	21.78	21.94	21.88	23.20
		MID	QPSK	22.08	22.33	22.14	23.20
		HIGH	QPSK	21.98	21.98	21.81	23.20
	12	LOW	QPSK	21.78	21.83	22.00	23.20
		MID	QPSK	22.07	22.20	22.16	23.20
		HIGH	QPSK	21.88	21.94	22.01	23.20
	25	LOW	QPSK	22.11	21.99	21.92	23.20
5	1	LOW	Q16	22.05	22.22	21.97	23.20
		MID	Q16	22.30	22.30	**22.44**	23.20
		HIGH	Q16	22.36	22.28	22.13	23.20
	12	LOW	Q16	20.78	21.04	21.09	22.20
		MID	Q16	21.09	21.19	21.13	22.20
		HIGH	Q16	21.18	21.06	20.88	22.20
	25	LOW	Q16	21.02	21.09	21.06	22.20
5	1	LOW	64QAM	21.08	21.11	21.21	22.20
		MID	64QAM	21.28	21.52	21.25	22.20
		HIGH	64QAM	21.19	21.24	21.16	22.20
	12	LOW	64QAM	20.07	20.18	20.09	21.20
		MID	64QAM	20.21	20.12	19.95	21.20
		HIGH	64QAM	20.08	20.11	19.90	21.20
	25	LOW	64QAM	**20.15**	20.11	19.99	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	QPSK	21.81	21.95	21.73	23.20
		MID	QPSK	22.01	22.27	22.07	23.20
		HIGH	QPSK	21.88	21.85	21.99	23.20
	25	LOW	QPSK	21.72	22.02	22.19	23.20
		MID	QPSK	22.10	22.11	22.07	23.20
		HIGH	QPSK	21.96	22.01	21.93	23.20
	50	LOW	QPSK	21.93	22.02	21.95	23.20
10	1	LOW	Q16	22.21	22.25	22.05	23.20
		MID	Q16	**22.43**	22.39	22.41	23.20
		HIGH	Q16	22.22	22.22	22.21	23.20
	25	LOW	Q16	20.90	20.89	21.01	22.20
		MID	Q16	20.99	21.17	21.17	22.20
		HIGH	Q16	21.13	20.94	21.03	22.20
	50	LOW	Q16	20.97	20.98	21.05	22.20
10	1	LOW	64QAM	21.16	21.07	20.95	22.20
		MID	64QAM	21.54	21.59	21.37	22.20
		HIGH	64QAM	21.22	21.02	21.18	22.20
	25	LOW	64QAM	19.93	19.89	20.03	21.20
		MID	64QAM	20.21	19.97	20.01	21.20
		HIGH	64QAM	19.94	20.12	19.93	21.20
	50	LOW	64QAM	20.06	20.17	20.17	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	QPSK	21.70	21.89	21.87	23.20
		MID	QPSK	22.04	22.11	22.30	23.20
		HIGH	QPSK	21.97	21.85	21.81	23.20
	36	LOW	QPSK	21.94	21.94	22.02	23.20
		MID	QPSK	21.92	21.91	22.00	23.20
		HIGH	QPSK	22.05	22.00	21.98	23.20
	75	LOW	QPSK	22.04	22.03	22.07	23.20
15	1	LOW	Q16	22.15	22.15	22.21	23.20
		MID	Q16	22.32	22.38	**22.46**	23.20
		HIGH	Q16	22.34	22.10	22.09	23.20
	36	LOW	Q16	20.77	20.98	20.94	22.20
		MID	Q16	21.13	21.00	21.13	22.20
		HIGH	Q16	21.01	20.97	21.15	22.20
	75	LOW	Q16	20.90	21.13	21.01	22.20
15	1	LOW	64QAM	21.15	21.19	20.97	22.20
		MID	64QAM	21.27	21.60	21.45	22.20
		HIGH	64QAM	21.29	21.14	21.09	22.20
	36	LOW	64QAM	19.79	19.95	20.08	21.20
		MID	64QAM	19.91	20.23	20.00	21.20
		HIGH	64QAM	20.18	20.17	19.98	21.20
	75	LOW	64QAM	20.03	20.06	20.12	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	QPSK	21.77	21.89	21.84	23.20
		MID	QPSK	22.09	**22.23**	22.20	23.20
		HIGH	QPSK	21.93	21.96	21.86	23.20
	50	LOW	QPSK	21.86	21.97	22.08	23.20
		MID	QPSK	22.00	22.09	22.06	23.20
		HIGH	QPSK	21.96	22.02	22.02	23.20
	100	LOW	QPSK	21.96	22.01	22.06	23.20
20	1	LOW	Q16	22.06	22.11	22.10	23.20
		MID	Q16	22.41	**22.45**	22.37	23.20
		HIGH	Q16	22.26	22.17	22.15	23.20
	50	LOW	Q16	20.92	21.04	21.06	22.20
		MID	Q16	21.06	21.12	21.05	22.20
		HIGH	Q16	21.04	21.03	21.02	22.20
	100	LOW	Q16	21.00	21.03	21.08	22.20
20	1	LOW	64QAM	20.97	21.10	21.09	22.20
		MID	64QAM	21.48	**21.58**	21.29	22.20
		HIGH	64QAM	21.34	21.10	21.27	22.20
	50	LOW	64QAM	19.85	20.15	20.04	21.20
		MID	64QAM	20.06	20.23	19.97	21.20
		HIGH	64QAM	20.05	19.91	20.04	21.20
	100	LOW	64QAM	20.01	19.98	20.06	21.20

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Bandwidth (MHz)	RB Size	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.41	23.49	23.40	24.50
		MID	QPSK	23.63	23.64	23.64	24.50
		HIGH	QPSK	23.50	23.48	23.44	24.50
	3	LOW	QPSK	23.66	23.62	23.65	24.50
		MID	QPSK	23.62	23.66	**23.68**	24.50
		HIGH	QPSK	23.60	23.61	23.65	24.50
	6	LOW	QPSK	22.53	22.57	22.50	23.50
1.4	1	LOW	Q16	22.65	22.85	22.51	23.50
		MID	Q16	22.81	23.03	22.67	23.50
		HIGH	Q16	22.67	22.87	22.54	23.50
	3	LOW	Q16	22.70	22.78	22.84	23.50
		MID	Q16	22.70	22.78	22.78	23.50
		HIGH	Q16	22.68	22.76	22.80	23.50
	6	LOW	Q16	21.76	21.52	21.75	22.50
1.4	1	LOW	64QAM	21.70	21.90	21.49	22.50
		MID	64QAM	21.69	22.10	21.55	22.50
		HIGH	64QAM	21.60	21.98	21.48	22.50
	3	LOW	64QAM	21.85	21.72	21.83	22.50
		MID	64QAM	21.82	21.87	21.90	22.50
		HIGH	64QAM	21.73	21.89	21.73	22.50
	6	LOW	64QAM	20.88	20.55	20.84	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	23.40	23.57	23.68	24.50
		MID	QPSK	23.59	**23.70**	23.61	24.50
		HIGH	QPSK	23.58	23.46	23.58	24.50
	8	LOW	QPSK	22.54	22.72	22.50	23.50
		MID	QPSK	22.64	22.63	22.51	23.50
		HIGH	QPSK	22.61	22.45	22.45	23.50
	15	LOW	QPSK	22.71	22.51	22.65	23.50
3	1	LOW	Q16	22.45	22.86	22.54	23.50
		MID	Q16	22.64	23.03	22.72	23.50
		HIGH	Q16	22.42	22.91	22.53	23.50
	8	LOW	Q16	21.59	21.77	21.95	22.50
		MID	Q16	21.58	21.74	21.73	22.50
		HIGH	Q16	21.68	21.63	21.64	22.50
	15	LOW	Q16	21.55	21.64	21.64	22.50
3	1	LOW	64QAM	21.43	22.10	21.52	22.50
		MID	64QAM	21.63	21.88	21.85	22.50
		HIGH	64QAM	21.55	22.07	21.66	22.50
	8	LOW	64QAM	20.62	20.61	20.75	21.50
		MID	64QAM	20.65	20.58	20.67	21.50
		HIGH	64QAM	20.87	20.51	20.66	21.50
	15	LOW	64QAM	20.77	20.55	20.60	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	23.41	23.41	23.59	24.50
		MID	QPSK	23.63	**23.68**	23.66	24.50
		HIGH	QPSK	23.39	23.46	23.67	24.50
	12	LOW	QPSK	22.69	22.50	22.57	23.50
		MID	QPSK	22.61	22.54	22.73	23.50
		HIGH	QPSK	22.55	22.49	22.72	23.50
	25	LOW	QPSK	22.62	22.60	22.65	23.50
5	1	LOW	Q16	22.50	22.81	22.56	23.50
		MID	Q16	22.59	23.12	22.84	23.50
		HIGH	Q16	22.66	22.88	22.48	23.50
	12	LOW	Q16	21.56	21.68	21.95	22.50
		MID	Q16	21.73	21.59	21.63	22.50
		HIGH	Q16	21.58	21.78	21.64	22.50
	25	LOW	Q16	21.76	21.71	21.69	22.50
5	1	LOW	64QAM	21.48	22.09	21.64	22.50
		MID	64QAM	21.62	22.08	21.72	22.50
		HIGH	64QAM	21.69	22.02	21.64	22.50
	12	LOW	64QAM	20.66	20.59	20.75	21.50
		MID	64QAM	20.61	20.86	20.65	21.50
		HIGH	64QAM	20.77	20.54	20.80	21.50
	25	LOW	64QAM	20.70	20.58	20.77	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	23.41	23.50	23.57	24.50
		MID	QPSK	23.57	23.69	**23.74**	24.50
		HIGH	QPSK	23.51	23.56	23.55	24.50
	25	LOW	QPSK	22.59	22.64	22.64	23.50
		MID	QPSK	22.57	22.61	22.63	23.50
		HIGH	QPSK	22.63	22.56	22.57	23.50
	50	LOW	QPSK	22.61	22.60	22.59	23.50
10	1	LOW	Q16	22.49	22.96	22.52	23.50
		MID	Q16	22.64	**23.02**	22.77	23.50
		HIGH	Q16	22.54	22.94	22.57	23.50
	25	LOW	Q16	21.70	21.73	21.82	22.50
		MID	Q16	21.67	21.73	21.77	22.50
		HIGH	Q16	21.72	21.64	21.72	22.50
	50	LOW	Q16	21.66	21.67	21.74	22.50
10	1	LOW	64QAM	21.39	**22.05**	21.52	22.50
		MID	64QAM	21.50	22.00	21.89	22.50
		HIGH	64QAM	21.50	21.97	21.44	22.50
	25	LOW	64QAM	20.72	20.67	20.80	21.50
		MID	64QAM	20.58	20.76	20.76	21.50
		HIGH	64QAM	20.81	20.74	20.84	21.50
	50	LOW	64QAM	20.61	20.69	20.68	21.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	22.32	22.32	22.29	23.50
		MID	3	QPSK	22.49	22.53	22.47	23.50
		HIGH	5	QPSK	22.30	22.36	22.30	23.50
	3	LOW	0	QPSK	22.44	22.39	22.44	23.50
		MID	1	QPSK	22.45	22.49	22.46	23.50
		HIGH	3	QPSK	22.46	22.45	22.48	23.50
	6	LOW	0	QPSK	22.36	22.42	22.32	23.50
1.4	1	LOW	0	Q16	22.52	22.72	22.40	23.50
		MID	3	Q16	22.63	**22.87**	22.53	23.50
		HIGH	5	Q16	22.50	22.71	22.36	23.50
	3	LOW	0	Q16	22.54	22.61	22.60	23.50
		MID	1	Q16	22.53	22.63	22.64	23.50
		HIGH	3	Q16	22.52	22.64	22.61	23.50
	6	LOW	0	Q16	21.60	21.35	21.56	22.50
1.4	1	LOW	0	64QAM	21.50	21.61	21.40	22.50
		MID	12	64QAM	21.77	21.88	21.66	22.50
		HIGH	24	64QAM	21.63	21.66	21.48	22.50
	3	LOW	0	64QAM	21.51	21.68	21.51	22.50
		MID	7	64QAM	21.48	21.59	21.70	22.50
		HIGH	13	64QAM	21.53	21.62	21.60	22.50
	6	LOW	0	64QAM	20.70	20.37	20.71	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	0	QPSK	22.15	22.38	22.38	23.50
		MID	25	QPSK	22.30	22.53	22.64	23.50
		HIGH	49	QPSK	22.29	22.37	22.38	23.50
	8	LOW	0	QPSK	22.58	22.42	22.41	23.50
		MID	12	QPSK	22.41	22.41	22.33	23.50
		HIGH	25	QPSK	22.46	22.29	22.34	23.50
	15	LOW	0	QPSK	22.54	22.39	22.43	23.50
3	1	LOW	0	Q16	22.41	**22.79**	22.28	23.50
		MID	25	Q16	22.55	22.77	22.73	23.50
		HIGH	49	Q16	22.52	**22.79**	22.57	23.50
	8	LOW	0	Q16	21.51	21.50	21.64	22.50
		MID	12	Q16	21.67	21.43	21.57	22.50
		HIGH	25	Q16	21.42	21.57	21.46	22.50
	15	LOW	0	Q16	21.42	21.57	21.58	22.50
3	1	LOW	0	64QAM	21.42	21.89	21.44	22.50
		MID	25	64QAM	21.33	21.81	21.50	22.50
		HIGH	49	64QAM	21.44	21.84	21.58	22.50
	8	LOW	0	64QAM	20.64	20.40	20.66	21.50
		MID	12	64QAM	20.40	20.53	20.63	21.50
		HIGH	25	64QAM	20.55	20.60	20.51	21.50
	15	LOW	0	64QAM	20.52	20.63	20.67	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	0	QPSK	22.16	22.29	22.27	23.50
		MID	12	QPSK	22.45	22.53	22.50	23.50
		HIGH	24	QPSK	22.48	22.34	22.49	23.50
	12	LOW	0	QPSK	22.39	22.34	22.45	23.50
		MID	7	QPSK	22.56	22.44	22.37	23.50
		HIGH	13	QPSK	22.41	22.39	22.48	23.50
	25	LOW	0	QPSK	22.56	22.50	22.62	23.50
5	1	LOW	0	Q16	22.43	22.85	22.50	23.50
		MID	12	Q16	22.49	**23.06**	22.61	23.50
		HIGH	24	Q16	22.33	22.68	22.54	23.50
	12	LOW	0	Q16	21.48	21.50	21.69	22.50
		MID	7	Q16	21.55	21.41	21.61	22.50
		HIGH	13	Q16	21.40	21.56	21.67	22.50
	25	LOW	0	Q16	21.39	21.56	21.70	22.50
5	1	LOW	0	64QAM	21.23	21.73	21.35	22.50
		MID	12	64QAM	21.44	21.95	21.47	22.50
		HIGH	24	64QAM	21.50	21.70	21.30	22.50
	12	LOW	0	64QAM	20.55	20.54	20.71	21.50
		MID	7	64QAM	20.61	20.48	20.59	21.50
		HIGH	13	64QAM	20.39	20.54	20.53	21.50
	25	LOW	0	64QAM	20.53	20.42	20.48	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	0	QPSK	22.30	22.39	22.42	23.50
		MID	25	QPSK	22.45	22.53	**22.62**	23.50
		HIGH	49	QPSK	22.36	22.41	22.39	23.50
	25	LOW	0	QPSK	22.46	22.48	22.50	23.50
		MID	12	QPSK	22.43	22.47	22.46	23.50
		HIGH	25	QPSK	22.44	22.41	22.42	23.50
	50	LOW	0	QPSK	22.42	22.42	22.48	23.50
10	1	LOW	0	Q16	22.32	22.76	22.38	23.50
		MID	25	Q16	22.47	**22.91**	22.62	23.50
		HIGH	49	Q16	22.38	22.79	22.45	23.50
	25	LOW	0	Q16	21.50	21.54	21.65	22.50
		MID	12	Q16	21.52	21.55	21.62	22.50
		HIGH	25	Q16	21.52	21.47	21.59	22.50
	50	LOW	0	Q16	21.49	21.52	21.56	22.50
10	1	LOW	0	64QAM	21.29	21.79	21.51	22.50
		MID	25	64QAM	21.43	**21.85**	21.69	22.50
		HIGH	49	64QAM	21.53	21.64	21.35	22.50
	25	LOW	0	64QAM	20.37	20.40	20.57	21.50
		MID	12	64QAM	20.59	20.51	20.66	21.50
		HIGH	25	64QAM	20.61	20.36	20.72	21.50
	50	LOW	0	64QAM	20.61	20.56	20.46	21.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	21.38	21.37	21.34	22.50
		MID	3	QPSK	21.53	21.56	21.54	22.50
		HIGH	5	QPSK	21.38	21.38	21.34	22.50
	3	LOW	0	QPSK	21.48	21.47	21.52	22.50
		MID	1	QPSK	21.52	21.52	21.55	22.50
		HIGH	3	QPSK	21.47	21.48	21.52	22.50
	6	LOW	0	QPSK	21.41	21.47	21.42	22.50
1.4	1	LOW	0	Q16	21.61	21.81	21.49	22.50
		MID	3	Q16	21.72	21.96	21.68	22.50
		HIGH	5	Q16	21.58	21.78	21.49	22.50
	3	LOW	0	Q16	21.62	21.68	21.66	22.50
		MID	1	Q16	21.60	21.68	21.77	22.50
		HIGH	3	Q16	21.58	21.69	21.69	22.50
	6	LOW	0	Q16	21.65	21.39	21.65	22.50
1.4	1	LOW	0	64QAM	21.52	21.84	21.40	22.50
		MID	12	64QAM	21.83	22.01	21.79	22.50
		HIGH	24	64QAM	21.50	21.58	21.54	22.50
	3	LOW	0	64QAM	21.48	21.81	21.53	22.50
		MID	7	64QAM	21.60	21.58	21.86	22.50
		HIGH	13	64QAM	21.43	21.72	21.59	22.50
	6	LOW	0	64QAM	20.68	20.40	20.53	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	0	QPSK	21.23	21.55	21.44	22.50
		MID	25	QPSK	21.46	21.47	21.74	22.50
		HIGH	49	QPSK	21.46	21.57	21.55	22.50
	8	LOW	0	QPSK	21.38	21.38	21.44	22.50
		MID	12	QPSK	21.65	21.63	21.54	22.50
		HIGH	25	QPSK	21.59	21.38	21.47	22.50
	15	LOW	0	QPSK	21.51	21.36	21.43	22.50
3	1	LOW	0	Q16	21.42	21.70	21.38	22.50
		MID	25	Q16	21.42	21.82	21.75	22.50
		HIGH	49	Q16	21.48	21.85	21.42	22.50
	8	LOW	0	Q16	21.64	21.49	21.74	22.50
		MID	12	Q16	21.50	21.47	21.73	22.50
		HIGH	25	Q16	21.63	21.55	21.67	22.50
	15	LOW	0	Q16	21.49	21.43	21.51	22.50
3	1	LOW	0	64QAM	21.30	21.72	21.45	22.50
		MID	25	64QAM	21.52	21.94	21.79	22.50
		HIGH	49	64QAM	21.62	22.01	21.58	22.50
	8	LOW	0	64QAM	20.61	20.56	20.70	21.50
		MID	12	64QAM	20.48	20.52	20.70	21.50
		HIGH	25	64QAM	20.49	20.53	20.69	21.50
	15	LOW	0	64QAM	20.47	20.60	20.55	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	0	QPSK	21.21	21.37	21.40	22.50
		MID	12	QPSK	21.46	21.65	21.68	22.50
		HIGH	24	QPSK	21.49	21.50	21.52	22.50
	12	LOW	0	QPSK	21.44	21.48	21.47	22.50
		MID	7	QPSK	21.41	21.60	21.61	22.50
		HIGH	13	QPSK	21.63	21.57	21.41	22.50
	25	LOW	0	QPSK	21.57	21.56	21.58	22.50
5	1	LOW	0	Q16	21.54	21.68	21.38	22.50
		MID	12	Q16	21.54	21.87	21.74	22.50
		HIGH	24	Q16	21.56	21.74	21.41	22.50
	12	LOW	0	Q16	21.60	21.55	21.52	22.50
		MID	7	Q16	21.44	21.65	21.78	22.50
		HIGH	13	Q16	21.68	21.35	21.60	22.50
	25	LOW	0	Q16	21.55	21.42	21.72	22.50
5	1	LOW	0	64QAM	21.60	21.82	21.60	22.50
		MID	12	64QAM	21.46	22.08	21.71	22.50
		HIGH	24	64QAM	21.41	21.83	21.68	22.50
	12	LOW	0	64QAM	20.51	20.64	20.81	21.50
		MID	7	64QAM	20.61	20.54	20.52	21.50
		HIGH	13	64QAM	20.61	20.58	20.63	21.50
	25	LOW	0	64QAM	20.50	20.61	20.48	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	0	QPSK	21.33	21.46	21.49	22.50
		MID	25	QPSK	21.50	21.60	**21.65**	22.50
		HIGH	49	QPSK	21.40	21.50	21.43	22.50
	25	LOW	0	QPSK	21.48	21.50	21.54	22.50
		MID	12	QPSK	21.51	21.53	21.54	22.50
		HIGH	25	QPSK	21.54	21.47	21.48	22.50
	50	LOW	0	QPSK	21.48	21.47	21.53	22.50
10	1	LOW	0	Q16	21.45	21.83	21.45	22.50
		MID	25	Q16	21.54	**21.99**	21.67	22.50
		HIGH	49	Q16	21.48	21.86	21.53	22.50
	25	LOW	0	Q16	21.58	21.56	21.66	22.50
		MID	12	Q16	21.55	21.57	21.67	22.50
		HIGH	25	Q16	21.56	21.50	21.60	22.50
	50	LOW	0	Q16	21.50	21.49	21.61	22.50
10	1	LOW	0	64QAM	21.44	21.81	21.31	22.50
		MID	25	64QAM	21.43	**22.01**	21.79	22.50
		HIGH	49	64QAM	21.46	21.94	21.40	22.50
	25	LOW	0	64QAM	20.57	20.50	20.58	21.50
		MID	12	64QAM	20.55	20.53	20.78	21.50
		HIGH	25	64QAM	20.42	20.39	20.71	21.50
	50	LOW	0	64QAM	20.58	20.39	20.74	21.50

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Bandwidth (MHz)	RB Size	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.41	23.49	23.40	24.50
		MID	QPSK	23.63	23.64	23.64	24.50
		HIGH	QPSK	23.50	23.48	23.44	24.50
	3	LOW	QPSK	23.66	23.62	23.65	24.50
		MID	QPSK	23.62	23.66	**23.68**	24.50
		HIGH	QPSK	23.60	23.61	23.65	24.50
	6	LOW	QPSK	22.53	22.57	22.50	23.50
1.4	1	LOW	Q16	22.65	22.85	22.51	23.50
		MID	Q16	22.81	23.03	22.67	23.50
		HIGH	Q16	22.67	22.87	22.54	23.50
	3	LOW	Q16	22.70	22.78	22.84	23.50
		MID	Q16	22.70	22.78	22.78	23.50
		HIGH	Q16	22.68	22.76	22.80	23.50
	6	LOW	Q16	21.76	21.52	21.75	22.50
1.4	1	LOW	64QAM	21.70	21.90	21.49	22.50
		MID	64QAM	21.69	22.10	21.55	22.50
		HIGH	64QAM	21.60	21.98	21.48	22.50
	3	LOW	64QAM	21.85	21.72	21.83	22.50
		MID	64QAM	21.82	21.87	21.90	22.50
		HIGH	64QAM	21.73	21.89	21.73	22.50
	6	LOW	64QAM	20.88	20.55	20.84	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	23.40	23.57	23.68	24.50
		MID	QPSK	23.59	**23.70**	23.61	24.50
		HIGH	QPSK	23.58	23.46	23.58	24.50
	8	LOW	QPSK	22.54	22.72	22.50	23.50
		MID	QPSK	22.64	22.63	22.51	23.50
		HIGH	QPSK	22.61	22.45	22.45	23.50
	15	LOW	QPSK	22.71	22.51	22.65	23.50
3	1	LOW	Q16	22.45	22.86	22.54	23.50
		MID	Q16	22.64	23.03	22.72	23.50
		HIGH	Q16	22.42	22.91	22.53	23.50
	8	LOW	Q16	21.59	21.77	21.95	22.50
		MID	Q16	21.58	21.74	21.73	22.50
		HIGH	Q16	21.68	21.63	21.64	22.50
	15	LOW	Q16	21.55	21.64	21.64	22.50
3	1	LOW	64QAM	21.43	22.10	21.52	22.50
		MID	64QAM	21.63	21.88	21.85	22.50
		HIGH	64QAM	21.55	22.07	21.66	22.50
	8	LOW	64QAM	20.62	20.61	20.75	21.50
		MID	64QAM	20.65	20.58	20.67	21.50
		HIGH	64QAM	20.87	20.51	20.66	21.50
	15	LOW	64QAM	20.77	20.55	20.60	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	23.41	23.41	23.59	24.50
		MID	QPSK	23.63	**23.68**	23.66	24.50
		HIGH	QPSK	23.39	23.46	23.67	24.50
	12	LOW	QPSK	22.69	22.50	22.57	23.50
		MID	QPSK	22.61	22.54	22.73	23.50
		HIGH	QPSK	22.55	22.49	22.72	23.50
	25	LOW	QPSK	22.62	22.60	22.65	23.50
5	1	LOW	Q16	22.50	22.81	22.56	23.50
		MID	Q16	22.59	23.12	22.84	23.50
		HIGH	Q16	22.66	22.88	22.48	23.50
	12	LOW	Q16	21.56	21.68	21.95	22.50
		MID	Q16	21.73	21.59	21.63	22.50
		HIGH	Q16	21.58	21.78	21.64	22.50
	25	LOW	Q16	21.76	21.71	21.69	22.50
5	1	LOW	64QAM	21.48	22.09	21.64	22.50
		MID	64QAM	21.62	22.08	21.72	22.50
		HIGH	64QAM	21.69	22.02	21.64	22.50
	12	LOW	64QAM	20.66	20.59	20.75	21.50
		MID	64QAM	20.61	20.86	20.65	21.50
		HIGH	64QAM	20.77	20.54	20.80	21.50
	25	LOW	64QAM	20.70	20.58	20.77	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	23.41	23.50	23.57	24.50
		MID	QPSK	23.57	23.69	**23.74**	24.50
		HIGH	QPSK	23.51	23.56	23.55	24.50
	25	LOW	QPSK	22.59	22.64	22.64	23.50
		MID	QPSK	22.57	22.61	22.63	23.50
		HIGH	QPSK	22.63	22.56	22.57	23.50
	50	LOW	QPSK	22.61	22.60	22.59	23.50
10	1	LOW	Q16	22.49	22.96	22.52	23.50
		MID	Q16	22.64	**23.02**	22.77	23.50
		HIGH	Q16	22.54	22.94	22.57	23.50
	25	LOW	Q16	21.70	21.73	21.82	22.50
		MID	Q16	21.67	21.73	21.77	22.50
		HIGH	Q16	21.72	21.64	21.72	22.50
	50	LOW	Q16	21.66	21.67	21.74	22.50
10	1	LOW	64QAM	21.39	**22.05**	21.52	22.50
		MID	64QAM	21.50	22.00	21.89	22.50
		HIGH	64QAM	21.50	21.97	21.44	22.50
	25	LOW	64QAM	20.72	20.67	20.80	21.50
		MID	64QAM	20.58	20.76	20.76	21.50
		HIGH	64QAM	20.81	20.74	20.84	21.50
	50	LOW	64QAM	20.61	20.69	20.68	21.50

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Bandwidth (MHz)	RB Size	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.41	23.49	23.40	24.50
		MID	QPSK	23.63	23.64	23.64	24.50
		HIGH	QPSK	23.50	23.48	23.44	24.50
	3	LOW	QPSK	23.66	23.62	23.65	24.50
		MID	QPSK	23.62	23.66	**23.68**	24.50
		HIGH	QPSK	23.60	23.61	23.65	24.50
	6	LOW	QPSK	22.53	22.57	22.50	23.50
1.4	1	LOW	Q16	22.65	22.85	22.51	23.50
		MID	Q16	22.81	23.03	22.67	23.50
		HIGH	Q16	22.67	22.87	22.54	23.50
	3	LOW	Q16	22.70	22.78	22.84	23.50
		MID	Q16	22.70	22.78	22.78	23.50
		HIGH	Q16	22.68	22.76	22.80	23.50
	6	LOW	Q16	21.76	21.52	21.75	22.50
1.4	1	LOW	64QAM	21.70	21.90	21.49	22.50
		MID	64QAM	21.69	22.10	21.55	22.50
		HIGH	64QAM	21.60	21.98	21.48	22.50
	3	LOW	64QAM	21.85	21.72	21.83	22.50
		MID	64QAM	21.82	21.87	21.90	22.50
		HIGH	64QAM	21.73	21.89	21.73	22.50
	6	LOW	64QAM	20.88	20.55	20.84	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	23.40	23.57	23.68	24.50
		MID	QPSK	23.59	**23.70**	23.61	24.50
		HIGH	QPSK	23.58	23.46	23.58	24.50
	8	LOW	QPSK	22.54	22.72	22.50	23.50
		MID	QPSK	22.64	22.63	22.51	23.50
		HIGH	QPSK	22.61	22.45	22.45	23.50
	15	LOW	QPSK	22.71	22.51	22.65	23.50
3	1	LOW	Q16	22.45	22.86	22.54	23.50
		MID	Q16	22.64	23.03	22.72	23.50
		HIGH	Q16	22.42	22.91	22.53	23.50
	8	LOW	Q16	21.59	21.77	21.95	22.50
		MID	Q16	21.58	21.74	21.73	22.50
		HIGH	Q16	21.68	21.63	21.64	22.50
	15	LOW	Q16	21.55	21.64	21.64	22.50
3	1	LOW	64QAM	21.43	22.10	21.52	22.50
		MID	64QAM	21.63	21.88	21.85	22.50
		HIGH	64QAM	21.55	22.07	21.66	22.50
	8	LOW	64QAM	20.62	20.61	20.75	21.50
		MID	64QAM	20.65	20.58	20.67	21.50
		HIGH	64QAM	20.87	20.51	20.66	21.50
	15	LOW	64QAM	20.77	20.55	20.60	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	23.41	23.41	23.59	24.50
		MID	QPSK	23.63	**23.68**	23.66	24.50
		HIGH	QPSK	23.39	23.46	23.67	24.50
	12	LOW	QPSK	22.69	22.50	22.57	23.50
		MID	QPSK	22.61	22.54	22.73	23.50
		HIGH	QPSK	22.55	22.49	22.72	23.50
	25	LOW	QPSK	22.62	22.60	22.65	23.50
5	1	LOW	Q16	22.50	22.81	22.56	23.50
		MID	Q16	22.59	23.12	22.84	23.50
		HIGH	Q16	22.66	22.88	22.48	23.50
	12	LOW	Q16	21.56	21.68	21.95	22.50
		MID	Q16	21.73	21.59	21.63	22.50
		HIGH	Q16	21.58	21.78	21.64	22.50
	25	LOW	Q16	21.76	21.71	21.69	22.50
5	1	LOW	64QAM	21.48	22.09	21.64	22.50
		MID	64QAM	21.62	22.08	21.72	22.50
		HIGH	64QAM	21.69	22.02	21.64	22.50
	12	LOW	64QAM	20.66	20.59	20.75	21.50
		MID	64QAM	20.61	20.86	20.65	21.50
		HIGH	64QAM	20.77	20.54	20.80	21.50
	25	LOW	64QAM	20.70	20.58	20.77	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	23.41	23.50	23.57	24.50
		MID	QPSK	23.57	23.69	**23.74**	24.50
		HIGH	QPSK	23.51	23.56	23.55	24.50
	25	LOW	QPSK	22.59	22.64	22.64	23.50
		MID	QPSK	22.57	22.61	22.63	23.50
		HIGH	QPSK	22.63	22.56	22.57	23.50
	50	LOW	QPSK	22.61	22.60	22.59	23.50
10	1	LOW	Q16	22.49	22.96	22.52	23.50
		MID	Q16	22.64	**23.02**	22.77	23.50
		HIGH	Q16	22.54	22.94	22.57	23.50
	25	LOW	Q16	21.70	21.73	21.82	22.50
		MID	Q16	21.67	21.73	21.77	22.50
		HIGH	Q16	21.72	21.64	21.72	22.50
	50	LOW	Q16	21.66	21.67	21.74	22.50
10	1	LOW	64QAM	21.39	**22.05**	21.52	22.50
		MID	64QAM	21.50	22.00	21.89	22.50
		HIGH	64QAM	21.50	21.97	21.44	22.50
	25	LOW	64QAM	20.72	20.67	20.80	21.50
		MID	64QAM	20.58	20.76	20.76	21.50
		HIGH	64QAM	20.81	20.74	20.84	21.50
	50	LOW	64QAM	20.61	20.69	20.68	21.50

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Bandwidth (MHz)	RB Size	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.41	23.49	23.40	24.50
		MID	QPSK	23.63	23.64	23.64	24.50
		HIGH	QPSK	23.50	23.48	23.44	24.50
	3	LOW	QPSK	23.66	23.62	23.65	24.50
		MID	QPSK	23.62	23.66	**23.68**	24.50
		HIGH	QPSK	23.60	23.61	23.65	24.50
	6	LOW	QPSK	22.53	22.57	22.50	23.50
1.4	1	LOW	Q16	22.65	22.85	22.51	23.50
		MID	Q16	22.81	23.03	22.67	23.50
		HIGH	Q16	22.67	22.87	22.54	23.50
	3	LOW	Q16	22.70	22.78	22.84	23.50
		MID	Q16	22.70	22.78	22.78	23.50
		HIGH	Q16	22.68	22.76	22.80	23.50
	6	LOW	Q16	21.76	21.52	21.75	22.50
1.4	1	LOW	64QAM	21.70	21.90	21.49	22.50
		MID	64QAM	21.69	22.10	21.55	22.50
		HIGH	64QAM	21.60	21.98	21.48	22.50
	3	LOW	64QAM	21.85	21.72	21.83	22.50
		MID	64QAM	21.82	21.87	21.90	22.50
		HIGH	64QAM	21.73	21.89	21.73	22.50
	6	LOW	64QAM	20.88	20.55	20.84	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	23.40	23.57	23.68	24.50
		MID	QPSK	23.59	**23.70**	23.61	24.50
		HIGH	QPSK	23.58	23.46	23.58	24.50
	8	LOW	QPSK	22.54	22.72	22.50	23.50
		MID	QPSK	22.64	22.63	22.51	23.50
		HIGH	QPSK	22.61	22.45	22.45	23.50
	15	LOW	QPSK	22.71	22.51	22.65	23.50
3	1	LOW	Q16	22.45	22.86	22.54	23.50
		MID	Q16	22.64	23.03	22.72	23.50
		HIGH	Q16	22.42	22.91	22.53	23.50
	8	LOW	Q16	21.59	21.77	21.95	22.50
		MID	Q16	21.58	21.74	21.73	22.50
		HIGH	Q16	21.68	21.63	21.64	22.50
	15	LOW	Q16	21.55	21.64	21.64	22.50
3	1	LOW	64QAM	21.43	22.10	21.52	22.50
		MID	64QAM	21.63	21.88	21.85	22.50
		HIGH	64QAM	21.55	22.07	21.66	22.50
	8	LOW	64QAM	20.62	20.61	20.75	21.50
		MID	64QAM	20.65	20.58	20.67	21.50
		HIGH	64QAM	20.87	20.51	20.66	21.50
	15	LOW	64QAM	20.77	20.55	20.60	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	23.41	23.41	23.59	24.50
		MID	QPSK	23.63	**23.68**	23.66	24.50
		HIGH	QPSK	23.39	23.46	23.67	24.50
	12	LOW	QPSK	22.69	22.50	22.57	23.50
		MID	QPSK	22.61	22.54	22.73	23.50
		HIGH	QPSK	22.55	22.49	22.72	23.50
	25	LOW	QPSK	22.62	22.60	22.65	23.50
5	1	LOW	Q16	22.50	22.81	22.56	23.50
		MID	Q16	22.59	23.12	22.84	23.50
		HIGH	Q16	22.66	22.88	22.48	23.50
	12	LOW	Q16	21.56	21.68	21.95	22.50
		MID	Q16	21.73	21.59	21.63	22.50
		HIGH	Q16	21.58	21.78	21.64	22.50
	25	LOW	Q16	21.76	21.71	21.69	22.50
5	1	LOW	64QAM	21.48	22.09	21.64	22.50
		MID	64QAM	21.62	22.08	21.72	22.50
		HIGH	64QAM	21.69	22.02	21.64	22.50
	12	LOW	64QAM	20.66	20.59	20.75	21.50
		MID	64QAM	20.61	20.86	20.65	21.50
		HIGH	64QAM	20.77	20.54	20.80	21.50
	25	LOW	64QAM	20.70	20.58	20.77	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	23.41	23.50	23.57	24.50
		MID	QPSK	23.57	23.69	**23.74**	24.50
		HIGH	QPSK	23.51	23.56	23.55	24.50
	25	LOW	QPSK	22.59	22.64	22.64	23.50
		MID	QPSK	22.57	22.61	22.63	23.50
		HIGH	QPSK	22.63	22.56	22.57	23.50
	50	LOW	QPSK	22.61	22.60	22.59	23.50
10	1	LOW	Q16	22.49	22.96	22.52	23.50
		MID	Q16	22.64	**23.02**	22.77	23.50
		HIGH	Q16	22.54	22.94	22.57	23.50
	25	LOW	Q16	21.70	21.73	21.82	22.50
		MID	Q16	21.67	21.73	21.77	22.50
		HIGH	Q16	21.72	21.64	21.72	22.50
	50	LOW	Q16	21.66	21.67	21.74	22.50
10	1	LOW	64QAM	21.39	**22.05**	21.52	22.50
		MID	64QAM	21.50	22.00	21.89	22.50
		HIGH	64QAM	21.50	21.97	21.44	22.50
	25	LOW	64QAM	20.72	20.67	20.80	21.50
		MID	64QAM	20.58	20.76	20.76	21.50
		HIGH	64QAM	20.81	20.74	20.84	21.50
	50	LOW	64QAM	20.61	20.69	20.68	21.50

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Bandwidth (MHz)	RB Size	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.41	23.49	23.40	24.50
		MID	QPSK	23.63	23.64	23.64	24.50
		HIGH	QPSK	23.50	23.48	23.44	24.50
	3	LOW	QPSK	23.66	23.62	23.65	24.50
		MID	QPSK	23.62	23.66	**23.68**	24.50
		HIGH	QPSK	23.60	23.61	23.65	24.50
	6	LOW	QPSK	22.53	22.57	22.50	23.50
1.4	1	LOW	Q16	22.65	22.85	22.51	23.50
		MID	Q16	22.81	23.03	22.67	23.50
		HIGH	Q16	22.67	22.87	22.54	23.50
	3	LOW	Q16	22.70	22.78	22.84	23.50
		MID	Q16	22.70	22.78	22.78	23.50
		HIGH	Q16	22.68	22.76	22.80	23.50
	6	LOW	Q16	21.76	21.52	21.75	22.50
1.4	1	LOW	64QAM	21.70	21.90	21.49	22.50
		MID	64QAM	21.69	22.10	21.55	22.50
		HIGH	64QAM	21.60	21.98	21.48	22.50
	3	LOW	64QAM	21.85	21.72	21.83	22.50
		MID	64QAM	21.82	21.87	21.90	22.50
		HIGH	64QAM	21.73	21.89	21.73	22.50
	6	LOW	64QAM	20.88	20.55	20.84	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	23.40	23.57	23.68	24.50
		MID	QPSK	23.59	**23.70**	23.61	24.50
		HIGH	QPSK	23.58	23.46	23.58	24.50
	8	LOW	QPSK	22.54	22.72	22.50	23.50
		MID	QPSK	22.64	22.63	22.51	23.50
		HIGH	QPSK	22.61	22.45	22.45	23.50
	15	LOW	QPSK	22.71	22.51	22.65	23.50
3	1	LOW	Q16	22.45	22.86	22.54	23.50
		MID	Q16	22.64	23.03	22.72	23.50
		HIGH	Q16	22.42	22.91	22.53	23.50
	8	LOW	Q16	21.59	21.77	21.95	22.50
		MID	Q16	21.58	21.74	21.73	22.50
		HIGH	Q16	21.68	21.63	21.64	22.50
	15	LOW	Q16	21.55	21.64	21.64	22.50
3	1	LOW	64QAM	21.43	22.10	21.52	22.50
		MID	64QAM	21.63	21.88	21.85	22.50
		HIGH	64QAM	21.55	22.07	21.66	22.50
	8	LOW	64QAM	20.62	20.61	20.75	21.50
		MID	64QAM	20.65	20.58	20.67	21.50
		HIGH	64QAM	20.87	20.51	20.66	21.50
	15	LOW	64QAM	20.77	20.55	20.60	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	23.41	23.41	23.59	24.50
		MID	QPSK	23.63	**23.68**	23.66	24.50
		HIGH	QPSK	23.39	23.46	23.67	24.50
	12	LOW	QPSK	22.69	22.50	22.57	23.50
		MID	QPSK	22.61	22.54	22.73	23.50
		HIGH	QPSK	22.55	22.49	22.72	23.50
	25	LOW	QPSK	22.62	22.60	22.65	23.50
5	1	LOW	Q16	22.50	22.81	22.56	23.50
		MID	Q16	22.59	23.12	22.84	23.50
		HIGH	Q16	22.66	22.88	22.48	23.50
	12	LOW	Q16	21.56	21.68	21.95	22.50
		MID	Q16	21.73	21.59	21.63	22.50
		HIGH	Q16	21.58	21.78	21.64	22.50
	25	LOW	Q16	21.76	21.71	21.69	22.50
5	1	LOW	64QAM	21.48	22.09	21.64	22.50
		MID	64QAM	21.62	22.08	21.72	22.50
		HIGH	64QAM	21.69	22.02	21.64	22.50
	12	LOW	64QAM	20.66	20.59	20.75	21.50
		MID	64QAM	20.61	20.86	20.65	21.50
		HIGH	64QAM	20.77	20.54	20.80	21.50
	25	LOW	64QAM	20.70	20.58	20.77	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	23.41	23.50	23.57	24.50
		MID	QPSK	23.57	23.69	**23.74**	24.50
		HIGH	QPSK	23.51	23.56	23.55	24.50
	25	LOW	QPSK	22.59	22.64	22.64	23.50
		MID	QPSK	22.57	22.61	22.63	23.50
		HIGH	QPSK	22.63	22.56	22.57	23.50
	50	LOW	QPSK	22.61	22.60	22.59	23.50
10	1	LOW	Q16	22.49	22.96	22.52	23.50
		MID	Q16	22.64	**23.02**	22.77	23.50
		HIGH	Q16	22.54	22.94	22.57	23.50
	25	LOW	Q16	21.70	21.73	21.82	22.50
		MID	Q16	21.67	21.73	21.77	22.50
		HIGH	Q16	21.72	21.64	21.72	22.50
	50	LOW	Q16	21.66	21.67	21.74	22.50
10	1	LOW	64QAM	21.39	**22.05**	21.52	22.50
		MID	64QAM	21.50	22.00	21.89	22.50
		HIGH	64QAM	21.50	21.97	21.44	22.50
	25	LOW	64QAM	20.72	20.67	20.80	21.50
		MID	64QAM	20.58	20.76	20.76	21.50
		HIGH	64QAM	20.81	20.74	20.84	21.50
	50	LOW	64QAM	20.61	20.69	20.68	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.15	23.11	23.05	25.00
		MID	QPSK	23.24	23.23	23.33	25.00
		HIGH	QPSK	23.11	23.05	23.07	25.00
	3	LOW	QPSK	**23.34**	23.18	23.16	25.00
		MID	QPSK	23.32	23.23	23.19	25.00
		HIGH	QPSK	23.30	23.19	23.16	25.00
	6	LOW	QPSK	22.09	22.10	22.04	24.00
1.4	1	LOW	Q16	22.23	22.45	22.13	24.00
		MID	Q16	22.42	22.57	22.16	24.00
		HIGH	Q16	22.32	22.43	22.02	24.00
	3	LOW	Q16	22.38	22.34	22.17	24.00
		MID	Q16	22.35	22.36	22.24	24.00
		HIGH	Q16	22.28	22.33	22.21	24.00
	6	LOW	Q16	21.33	21.07	21.22	23.00
1.4	1	LOW	64QAM	21.27	21.37	21.02	23.00
		MID	64QAM	21.28	21.52	21.13	23.00
		HIGH	64QAM	21.36	21.30	21.11	23.00
	3	LOW	64QAM	21.50	21.20	21.14	23.00
		MID	64QAM	21.29	21.38	21.33	23.00
		HIGH	64QAM	21.13	21.23	21.19	23.00
	6	LOW	64QAM	20.31	20.14	20.08	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	23.02	23.02	23.04	25.00
		MID	QPSK	23.08	**23.37**	23.35	25.00
		HIGH	QPSK	23.04	23.08	23.06	25.00
	8	LOW	QPSK	22.04	22.19	22.27	24.00
		MID	QPSK	22.13	22.24	22.08	24.00
		HIGH	QPSK	22.08	22.10	22.03	24.00
	15	LOW	QPSK	22.10	22.05	22.03	24.00
3	1	LOW	Q16	22.13	22.48	22.18	24.00
		MID	Q16	22.24	22.48	22.42	24.00
		HIGH	Q16	22.06	22.44	22.02	24.00
	8	LOW	Q16	21.12	21.32	21.23	23.00
		MID	Q16	21.09	21.38	21.16	23.00
		HIGH	Q16	21.00	21.13	21.11	23.00
	15	LOW	Q16	21.22	21.13	21.05	23.00
3	1	LOW	64QAM	21.20	21.30	21.12	23.00
		MID	64QAM	21.22	21.66	21.29	23.00
		HIGH	64QAM	21.10	21.35	21.01	23.00
	8	LOW	64QAM	21.07	20.24	20.12	22.00
		MID	64QAM	20.13	20.37	20.38	22.00
		HIGH	64QAM	20.14	20.14	20.20	22.00
	15	LOW	64QAM	20.22	20.20	20.18	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	22.93	23.03	23.02	24.50
		MID	QPSK	23.16	23.24	**23.42**	24.50
		HIGH	QPSK	22.91	23.01	23.00	24.50
	12	LOW	QPSK	22.05	22.04	22.23	23.50
		MID	QPSK	22.12	22.18	22.24	23.50
		HIGH	QPSK	22.07	22.01	22.08	23.50
	25	LOW	QPSK	22.03	22.26	22.18	23.50
5	1	LOW	Q16	22.00	22.28	22.17	23.50
		MID	Q16	22.10	22.70	22.25	23.50
		HIGH	Q16	21.89	22.45	21.98	23.50
	12	LOW	Q16	21.27	21.22	21.12	22.50
		MID	Q16	21.28	21.33	21.37	22.50
		HIGH	Q16	20.93	21.38	21.12	22.50
	25	LOW	Q16	21.07	21.30	21.13	22.50
5	1	LOW	64QAM	20.96	21.37	21.11	22.50
		MID	64QAM	21.22	21.52	21.23	22.50
		HIGH	64QAM	21.01	21.41	21.10	22.50
	12	LOW	64QAM	20.24	20.28	20.37	21.50
		MID	64QAM	20.30	20.23	20.21	21.50
		HIGH	64QAM	20.09	20.26	20.27	21.50
	25	LOW	64QAM	19.99	20.31	20.25	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	23.00	23.05	23.04	24.50
		MID	QPSK	23.17	23.22	**23.27**	24.50
		HIGH	QPSK	23.04	23.03	23.11	24.50
	25	LOW	QPSK	21.98	22.16	22.18	23.50
		MID	QPSK	22.04	22.11	22.12	23.50
		HIGH	QPSK	21.97	22.12	22.02	23.50
	50	LOW	QPSK	22.01	22.18	22.07	23.50
10	1	LOW	Q16	22.11	22.37	22.12	23.50
		MID	Q16	22.12	**22.55**	22.28	23.50
		HIGH	Q16	21.97	22.50	22.04	23.50
	25	LOW	Q16	21.12	21.27	21.26	22.50
		MID	Q16	21.17	21.24	21.28	22.50
		HIGH	Q16	21.08	21.25	21.14	22.50
	50	LOW	Q16	21.08	21.22	21.19	22.50
10	1	LOW	64QAM	21.00	21.40	21.23	22.50
		MID	64QAM	21.23	21.49	21.33	22.50
		HIGH	64QAM	20.95	**21.50**	20.89	22.50
	25	LOW	64QAM	20.13	20.32	20.22	21.50
		MID	64QAM	20.30	20.38	20.17	21.50
		HIGH	64QAM	20.16	20.16	20.22	21.50
	50	LOW	64QAM	20.11	20.08	20.28	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.15	23.11	23.05	25.00
		MID	QPSK	23.24	23.23	23.33	25.00
		HIGH	QPSK	23.11	23.05	23.07	25.00
	3	LOW	QPSK	**23.34**	23.18	23.16	25.00
		MID	QPSK	23.32	23.23	23.19	25.00
		HIGH	QPSK	23.30	23.19	23.16	25.00
	6	LOW	QPSK	22.09	22.10	22.04	24.00
1.4	1	LOW	Q16	22.23	22.45	22.13	24.00
		MID	Q16	22.42	22.57	22.16	24.00
		HIGH	Q16	22.32	22.43	22.02	24.00
	3	LOW	Q16	22.38	22.34	22.17	24.00
		MID	Q16	22.35	22.36	22.24	24.00
		HIGH	Q16	22.28	22.33	22.21	24.00
	6	LOW	Q16	21.33	21.07	21.22	23.00
1.4	1	LOW	64QAM	21.27	21.37	21.02	23.00
		MID	64QAM	21.28	21.52	21.13	23.00
		HIGH	64QAM	21.36	21.30	21.11	23.00
	3	LOW	64QAM	21.50	21.20	21.14	23.00
		MID	64QAM	21.29	21.38	21.33	23.00
		HIGH	64QAM	21.13	21.23	21.19	23.00
	6	LOW	64QAM	20.31	20.14	20.08	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	23.02	23.02	23.04	25.00
		MID	QPSK	23.08	**23.37**	23.35	25.00
		HIGH	QPSK	23.04	23.08	23.06	25.00
	8	LOW	QPSK	22.04	22.19	22.27	24.00
		MID	QPSK	22.13	22.24	22.08	24.00
		HIGH	QPSK	22.08	22.10	22.03	24.00
	15	LOW	QPSK	22.10	22.05	22.03	24.00
3	1	LOW	Q16	22.13	22.48	22.18	24.00
		MID	Q16	22.24	22.48	22.42	24.00
		HIGH	Q16	22.06	22.44	22.02	24.00
	8	LOW	Q16	21.12	21.32	21.23	23.00
		MID	Q16	21.09	21.38	21.16	23.00
		HIGH	Q16	21.00	21.13	21.11	23.00
	15	LOW	Q16	21.22	21.13	21.05	23.00
3	1	LOW	64QAM	21.20	21.30	21.12	23.00
		MID	64QAM	21.22	21.66	21.29	23.00
		HIGH	64QAM	21.10	21.35	21.01	23.00
	8	LOW	64QAM	21.07	20.24	20.12	22.00
		MID	64QAM	20.13	20.37	20.38	22.00
		HIGH	64QAM	20.14	20.14	20.20	22.00
	15	LOW	64QAM	20.22	20.20	20.18	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	22.93	23.03	23.02	24.50
		MID	QPSK	23.16	23.24	**23.42**	24.50
		HIGH	QPSK	22.91	23.01	23.00	24.50
	12	LOW	QPSK	22.05	22.04	22.23	23.50
		MID	QPSK	22.12	22.18	22.24	23.50
		HIGH	QPSK	22.07	22.01	22.08	23.50
	25	LOW	QPSK	22.03	22.26	22.18	23.50
5	1	LOW	Q16	22.00	22.28	22.17	23.50
		MID	Q16	22.10	22.70	22.25	23.50
		HIGH	Q16	21.89	22.45	21.98	23.50
	12	LOW	Q16	21.27	21.22	21.12	22.50
		MID	Q16	21.28	21.33	21.37	22.50
		HIGH	Q16	20.93	21.38	21.12	22.50
	25	LOW	Q16	21.07	21.30	21.13	22.50
5	1	LOW	64QAM	20.96	21.37	21.11	22.50
		MID	64QAM	21.22	21.52	21.23	22.50
		HIGH	64QAM	21.01	21.41	21.10	22.50
	12	LOW	64QAM	20.24	20.28	20.37	21.50
		MID	64QAM	20.30	20.23	20.21	21.50
		HIGH	64QAM	20.09	20.26	20.27	21.50
	25	LOW	64QAM	19.99	20.31	20.25	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	23.00	23.05	23.04	24.50
		MID	QPSK	23.17	23.22	**23.27**	24.50
		HIGH	QPSK	23.04	23.03	23.11	24.50
	25	LOW	QPSK	21.98	22.16	22.18	23.50
		MID	QPSK	22.04	22.11	22.12	23.50
		HIGH	QPSK	21.97	22.12	22.02	23.50
	50	LOW	QPSK	22.01	22.18	22.07	23.50
10	1	LOW	Q16	22.11	22.37	22.12	23.50
		MID	Q16	22.12	**22.55**	22.28	23.50
		HIGH	Q16	21.97	22.50	22.04	23.50
	25	LOW	Q16	21.12	21.27	21.26	22.50
		MID	Q16	21.17	21.24	21.28	22.50
		HIGH	Q16	21.08	21.25	21.14	22.50
	50	LOW	Q16	21.08	21.22	21.19	22.50
10	1	LOW	64QAM	21.00	21.40	21.23	22.50
		MID	64QAM	21.23	21.49	21.33	22.50
		HIGH	64QAM	20.95	**21.50**	20.89	22.50
	25	LOW	64QAM	20.13	20.32	20.22	21.50
		MID	64QAM	20.30	20.38	20.17	21.50
		HIGH	64QAM	20.16	20.16	20.22	21.50
	50	LOW	64QAM	20.11	20.08	20.28	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.15	23.11	23.05	25.00
		MID	QPSK	23.24	23.23	23.33	25.00
		HIGH	QPSK	23.11	23.05	23.07	25.00
	3	LOW	QPSK	**23.34**	23.18	23.16	25.00
		MID	QPSK	23.32	23.23	23.19	25.00
		HIGH	QPSK	23.30	23.19	23.16	25.00
	6	LOW	QPSK	22.09	22.10	22.04	24.00
1.4	1	LOW	Q16	22.23	22.45	22.13	24.00
		MID	Q16	22.42	22.57	22.16	24.00
		HIGH	Q16	22.32	22.43	22.02	24.00
	3	LOW	Q16	22.38	22.34	22.17	24.00
		MID	Q16	22.35	22.36	22.24	24.00
		HIGH	Q16	22.28	22.33	22.21	24.00
	6	LOW	Q16	21.33	21.07	21.22	23.00
1.4	1	LOW	64QAM	21.27	21.37	21.02	23.00
		MID	64QAM	21.28	21.52	21.13	23.00
		HIGH	64QAM	21.36	21.30	21.11	23.00
	3	LOW	64QAM	21.50	21.20	21.14	23.00
		MID	64QAM	21.29	21.38	21.33	23.00
		HIGH	64QAM	21.13	21.23	21.19	23.00
	6	LOW	64QAM	20.31	20.14	20.08	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	23.02	23.02	23.04	25.00
		MID	QPSK	23.08	**23.37**	23.35	25.00
		HIGH	QPSK	23.04	23.08	23.06	25.00
	8	LOW	QPSK	22.04	22.19	22.27	24.00
		MID	QPSK	22.13	22.24	22.08	24.00
		HIGH	QPSK	22.08	22.10	22.03	24.00
	15	LOW	QPSK	22.10	22.05	22.03	24.00
3	1	LOW	Q16	22.13	22.48	22.18	24.00
		MID	Q16	22.24	22.48	22.42	24.00
		HIGH	Q16	22.06	22.44	22.02	24.00
	8	LOW	Q16	21.12	21.32	21.23	23.00
		MID	Q16	21.09	21.38	21.16	23.00
		HIGH	Q16	21.00	21.13	21.11	23.00
	15	LOW	Q16	21.22	21.13	21.05	23.00
3	1	LOW	64QAM	21.20	21.30	21.12	23.00
		MID	64QAM	21.22	21.66	21.29	23.00
		HIGH	64QAM	21.10	21.35	21.01	23.00
	8	LOW	64QAM	21.07	20.24	20.12	22.00
		MID	64QAM	20.13	20.37	20.38	22.00
		HIGH	64QAM	20.14	20.14	20.20	22.00
	15	LOW	64QAM	20.22	20.20	20.18	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	22.93	23.03	23.02	24.50
		MID	QPSK	23.16	23.24	**23.42**	24.50
		HIGH	QPSK	22.91	23.01	23.00	24.50
	12	LOW	QPSK	22.05	22.04	22.23	23.50
		MID	QPSK	22.12	22.18	22.24	23.50
		HIGH	QPSK	22.07	22.01	22.08	23.50
	25	LOW	QPSK	22.03	22.26	22.18	23.50
5	1	LOW	Q16	22.00	22.28	22.17	23.50
		MID	Q16	22.10	22.70	22.25	23.50
		HIGH	Q16	21.89	22.45	21.98	23.50
	12	LOW	Q16	21.27	21.22	21.12	22.50
		MID	Q16	21.28	21.33	21.37	22.50
		HIGH	Q16	20.93	21.38	21.12	22.50
	25	LOW	Q16	21.07	21.30	21.13	22.50
5	1	LOW	64QAM	20.96	21.37	21.11	22.50
		MID	64QAM	21.22	21.52	21.23	22.50
		HIGH	64QAM	21.01	21.41	21.10	22.50
	12	LOW	64QAM	20.24	20.28	20.37	21.50
		MID	64QAM	20.30	20.23	20.21	21.50
		HIGH	64QAM	20.09	20.26	20.27	21.50
	25	LOW	64QAM	19.99	20.31	20.25	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	23.00	23.05	23.04	24.50
		MID	QPSK	23.17	23.22	**23.27**	24.50
		HIGH	QPSK	23.04	23.03	23.11	24.50
	25	LOW	QPSK	21.98	22.16	22.18	23.50
		MID	QPSK	22.04	22.11	22.12	23.50
		HIGH	QPSK	21.97	22.12	22.02	23.50
	50	LOW	QPSK	22.01	22.18	22.07	23.50
10	1	LOW	Q16	22.11	22.37	22.12	23.50
		MID	Q16	22.12	**22.55**	22.28	23.50
		HIGH	Q16	21.97	22.50	22.04	23.50
	25	LOW	Q16	21.12	21.27	21.26	22.50
		MID	Q16	21.17	21.24	21.28	22.50
		HIGH	Q16	21.08	21.25	21.14	22.50
	50	LOW	Q16	21.08	21.22	21.19	22.50
10	1	LOW	64QAM	21.00	21.40	21.23	22.50
		MID	64QAM	21.23	21.49	21.33	22.50
		HIGH	64QAM	20.95	**21.50**	20.89	22.50
	25	LOW	64QAM	20.13	20.32	20.22	21.50
		MID	64QAM	20.30	20.38	20.17	21.50
		HIGH	64QAM	20.16	20.16	20.22	21.50
	50	LOW	64QAM	20.11	20.08	20.28	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.15	23.11	23.05	25.00
		MID	QPSK	23.24	23.23	23.33	25.00
		HIGH	QPSK	23.11	23.05	23.07	25.00
	3	LOW	QPSK	**23.34**	23.18	23.16	25.00
		MID	QPSK	23.32	23.23	23.19	25.00
		HIGH	QPSK	23.30	23.19	23.16	25.00
	6	LOW	QPSK	22.09	22.10	22.04	24.00
1.4	1	LOW	Q16	22.23	22.45	22.13	24.00
		MID	Q16	22.42	22.57	22.16	24.00
		HIGH	Q16	22.32	22.43	22.02	24.00
	3	LOW	Q16	22.38	22.34	22.17	24.00
		MID	Q16	22.35	22.36	22.24	24.00
		HIGH	Q16	22.28	22.33	22.21	24.00
	6	LOW	Q16	21.33	21.07	21.22	23.00
1.4	1	LOW	64QAM	21.27	21.37	21.02	23.00
		MID	64QAM	21.28	21.52	21.13	23.00
		HIGH	64QAM	21.36	21.30	21.11	23.00
	3	LOW	64QAM	21.50	21.20	21.14	23.00
		MID	64QAM	21.29	21.38	21.33	23.00
		HIGH	64QAM	21.13	21.23	21.19	23.00
	6	LOW	64QAM	20.31	20.14	20.08	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	23.02	23.02	23.04	25.00
		MID	QPSK	23.08	**23.37**	23.35	25.00
		HIGH	QPSK	23.04	23.08	23.06	25.00
	8	LOW	QPSK	22.04	22.19	22.27	24.00
		MID	QPSK	22.13	22.24	22.08	24.00
		HIGH	QPSK	22.08	22.10	22.03	24.00
	15	LOW	QPSK	22.10	22.05	22.03	24.00
3	1	LOW	Q16	22.13	22.48	22.18	24.00
		MID	Q16	22.24	22.48	22.42	24.00
		HIGH	Q16	22.06	22.44	22.02	24.00
	8	LOW	Q16	21.12	21.32	21.23	23.00
		MID	Q16	21.09	21.38	21.16	23.00
		HIGH	Q16	21.00	21.13	21.11	23.00
	15	LOW	Q16	21.22	21.13	21.05	23.00
3	1	LOW	64QAM	21.20	21.30	21.12	23.00
		MID	64QAM	21.22	21.66	21.29	23.00
		HIGH	64QAM	21.10	21.35	21.01	23.00
	8	LOW	64QAM	21.07	20.24	20.12	22.00
		MID	64QAM	20.13	20.37	20.38	22.00
		HIGH	64QAM	20.14	20.14	20.20	22.00
	15	LOW	64QAM	20.22	20.20	20.18	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	22.93	23.03	23.02	24.50
		MID	QPSK	23.16	23.24	**23.42**	24.50
		HIGH	QPSK	22.91	23.01	23.00	24.50
	12	LOW	QPSK	22.05	22.04	22.23	23.50
		MID	QPSK	22.12	22.18	22.24	23.50
		HIGH	QPSK	22.07	22.01	22.08	23.50
	25	LOW	QPSK	22.03	22.26	22.18	23.50
5	1	LOW	Q16	22.00	22.28	22.17	23.50
		MID	Q16	22.10	22.70	22.25	23.50
		HIGH	Q16	21.89	22.45	21.98	23.50
	12	LOW	Q16	21.27	21.22	21.12	22.50
		MID	Q16	21.28	21.33	21.37	22.50
		HIGH	Q16	20.93	21.38	21.12	22.50
	25	LOW	Q16	21.07	21.30	21.13	22.50
5	1	LOW	64QAM	20.96	21.37	21.11	22.50
		MID	64QAM	21.22	21.52	21.23	22.50
		HIGH	64QAM	21.01	21.41	21.10	22.50
	12	LOW	64QAM	20.24	20.28	20.37	21.50
		MID	64QAM	20.30	20.23	20.21	21.50
		HIGH	64QAM	20.09	20.26	20.27	21.50
	25	LOW	64QAM	19.99	20.31	20.25	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	23.00	23.05	23.04	24.50
		MID	QPSK	23.17	23.22	**23.27**	24.50
		HIGH	QPSK	23.04	23.03	23.11	24.50
	25	LOW	QPSK	21.98	22.16	22.18	23.50
		MID	QPSK	22.04	22.11	22.12	23.50
		HIGH	QPSK	21.97	22.12	22.02	23.50
	50	LOW	QPSK	22.01	22.18	22.07	23.50
10	1	LOW	Q16	22.11	22.37	22.12	23.50
		MID	Q16	22.12	**22.55**	22.28	23.50
		HIGH	Q16	21.97	22.50	22.04	23.50
	25	LOW	Q16	21.12	21.27	21.26	22.50
		MID	Q16	21.17	21.24	21.28	22.50
		HIGH	Q16	21.08	21.25	21.14	22.50
	50	LOW	Q16	21.08	21.22	21.19	22.50
10	1	LOW	64QAM	21.00	21.40	21.23	22.50
		MID	64QAM	21.23	21.49	21.33	22.50
		HIGH	64QAM	20.95	**21.50**	20.89	22.50
	25	LOW	64QAM	20.13	20.32	20.22	21.50
		MID	64QAM	20.30	20.38	20.17	21.50
		HIGH	64QAM	20.16	20.16	20.22	21.50
	50	LOW	64QAM	20.11	20.08	20.28	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.15	23.11	23.05	25.00
		MID	QPSK	23.24	23.23	23.33	25.00
		HIGH	QPSK	23.11	23.05	23.07	25.00
	3	LOW	QPSK	**23.34**	23.18	23.16	25.00
		MID	QPSK	23.32	23.23	23.19	25.00
		HIGH	QPSK	23.30	23.19	23.16	25.00
	6	LOW	QPSK	22.09	22.10	22.04	24.00
1.4	1	LOW	Q16	22.23	22.45	22.13	24.00
		MID	Q16	22.42	22.57	22.16	24.00
		HIGH	Q16	22.32	22.43	22.02	24.00
	3	LOW	Q16	22.38	22.34	22.17	24.00
		MID	Q16	22.35	22.36	22.24	24.00
		HIGH	Q16	22.28	22.33	22.21	24.00
	6	LOW	Q16	21.33	21.07	21.22	23.00
1.4	1	LOW	64QAM	21.27	21.37	21.02	23.00
		MID	64QAM	21.28	21.52	21.13	23.00
		HIGH	64QAM	21.36	21.30	21.11	23.00
	3	LOW	64QAM	21.50	21.20	21.14	23.00
		MID	64QAM	21.29	21.38	21.33	23.00
		HIGH	64QAM	21.13	21.23	21.19	23.00
	6	LOW	64QAM	20.31	20.14	20.08	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	23.02	23.02	23.04	25.00
		MID	QPSK	23.08	**23.37**	23.35	25.00
		HIGH	QPSK	23.04	23.08	23.06	25.00
	8	LOW	QPSK	22.04	22.19	22.27	24.00
		MID	QPSK	22.13	22.24	22.08	24.00
		HIGH	QPSK	22.08	22.10	22.03	24.00
	15	LOW	QPSK	22.10	22.05	22.03	24.00
3	1	LOW	Q16	22.13	22.48	22.18	24.00
		MID	Q16	22.24	22.48	22.42	24.00
		HIGH	Q16	22.06	22.44	22.02	24.00
	8	LOW	Q16	21.12	21.32	21.23	23.00
		MID	Q16	21.09	21.38	21.16	23.00
		HIGH	Q16	21.00	21.13	21.11	23.00
	15	LOW	Q16	21.22	21.13	21.05	23.00
3	1	LOW	64QAM	21.20	21.30	21.12	23.00
		MID	64QAM	21.22	21.66	21.29	23.00
		HIGH	64QAM	21.10	21.35	21.01	23.00
	8	LOW	64QAM	21.07	20.24	20.12	22.00
		MID	64QAM	20.13	20.37	20.38	22.00
		HIGH	64QAM	20.14	20.14	20.20	22.00
	15	LOW	64QAM	20.22	20.20	20.18	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	22.93	23.03	23.02	24.50
		MID	QPSK	23.16	23.24	**23.42**	24.50
		HIGH	QPSK	22.91	23.01	23.00	24.50
	12	LOW	QPSK	22.05	22.04	22.23	23.50
		MID	QPSK	22.12	22.18	22.24	23.50
		HIGH	QPSK	22.07	22.01	22.08	23.50
	25	LOW	QPSK	22.03	22.26	22.18	23.50
5	1	LOW	Q16	22.00	22.28	22.17	23.50
		MID	Q16	22.10	22.70	22.25	23.50
		HIGH	Q16	21.89	22.45	21.98	23.50
	12	LOW	Q16	21.27	21.22	21.12	22.50
		MID	Q16	21.28	21.33	21.37	22.50
		HIGH	Q16	20.93	21.38	21.12	22.50
	25	LOW	Q16	21.07	21.30	21.13	22.50
5	1	LOW	64QAM	20.96	21.37	21.11	22.50
		MID	64QAM	21.22	21.52	21.23	22.50
		HIGH	64QAM	21.01	21.41	21.10	22.50
	12	LOW	64QAM	20.24	20.28	20.37	21.50
		MID	64QAM	20.30	20.23	20.21	21.50
		HIGH	64QAM	20.09	20.26	20.27	21.50
	25	LOW	64QAM	19.99	20.31	20.25	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	23.00	23.05	23.04	24.50
		MID	QPSK	23.17	23.22	**23.27**	24.50
		HIGH	QPSK	23.04	23.03	23.11	24.50
	25	LOW	QPSK	21.98	22.16	22.18	23.50
		MID	QPSK	22.04	22.11	22.12	23.50
		HIGH	QPSK	21.97	22.12	22.02	23.50
	50	LOW	QPSK	22.01	22.18	22.07	23.50
10	1	LOW	Q16	22.11	22.37	22.12	23.50
		MID	Q16	22.12	**22.55**	22.28	23.50
		HIGH	Q16	21.97	22.50	22.04	23.50
	25	LOW	Q16	21.12	21.27	21.26	22.50
		MID	Q16	21.17	21.24	21.28	22.50
		HIGH	Q16	21.08	21.25	21.14	22.50
	50	LOW	Q16	21.08	21.22	21.19	22.50
10	1	LOW	64QAM	21.00	21.40	21.23	22.50
		MID	64QAM	21.23	21.49	21.33	22.50
		HIGH	64QAM	20.95	**21.50**	20.89	22.50
	25	LOW	64QAM	20.13	20.32	20.22	21.50
		MID	64QAM	20.30	20.38	20.17	21.50
		HIGH	64QAM	20.16	20.16	20.22	21.50
	50	LOW	64QAM	20.11	20.08	20.28	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.15	23.11	23.05	25.00
		MID	QPSK	23.24	23.23	23.33	25.00
		HIGH	QPSK	23.11	23.05	23.07	25.00
	3	LOW	QPSK	**23.34**	23.18	23.16	25.00
		MID	QPSK	23.32	23.23	23.19	25.00
		HIGH	QPSK	23.30	23.19	23.16	25.00
	6	LOW	QPSK	22.09	22.10	22.04	24.00
1.4	1	LOW	Q16	22.23	22.45	22.13	24.00
		MID	Q16	22.42	22.57	22.16	24.00
		HIGH	Q16	22.32	22.43	22.02	24.00
	3	LOW	Q16	22.38	22.34	22.17	24.00
		MID	Q16	22.35	22.36	22.24	24.00
		HIGH	Q16	22.28	22.33	22.21	24.00
	6	LOW	Q16	21.33	21.07	21.22	23.00
1.4	1	LOW	64QAM	21.27	21.37	21.02	23.00
		MID	64QAM	21.28	21.52	21.13	23.00
		HIGH	64QAM	21.36	21.30	21.11	23.00
	3	LOW	64QAM	21.50	21.20	21.14	23.00
		MID	64QAM	21.29	21.38	21.33	23.00
		HIGH	64QAM	21.13	21.23	21.19	23.00
	6	LOW	64QAM	20.31	20.14	20.08	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	23.02	23.02	23.04	25.00
		MID	QPSK	23.08	**23.37**	23.35	25.00
		HIGH	QPSK	23.04	23.08	23.06	25.00
	8	LOW	QPSK	22.04	22.19	22.27	24.00
		MID	QPSK	22.13	22.24	22.08	24.00
		HIGH	QPSK	22.08	22.10	22.03	24.00
	15	LOW	QPSK	22.10	22.05	22.03	24.00
3	1	LOW	Q16	22.13	22.48	22.18	24.00
		MID	Q16	22.24	22.48	22.42	24.00
		HIGH	Q16	22.06	22.44	22.02	24.00
	8	LOW	Q16	21.12	21.32	21.23	23.00
		MID	Q16	21.09	21.38	21.16	23.00
		HIGH	Q16	21.00	21.13	21.11	23.00
	15	LOW	Q16	21.22	21.13	21.05	23.00
3	1	LOW	64QAM	21.20	21.30	21.12	23.00
		MID	64QAM	21.22	21.66	21.29	23.00
		HIGH	64QAM	21.10	21.35	21.01	23.00
	8	LOW	64QAM	21.07	20.24	20.12	22.00
		MID	64QAM	20.13	20.37	20.38	22.00
		HIGH	64QAM	20.14	20.14	20.20	22.00
	15	LOW	64QAM	20.22	20.20	20.18	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	22.93	23.03	23.02	24.50
		MID	QPSK	23.16	23.24	**23.42**	24.50
		HIGH	QPSK	22.91	23.01	23.00	24.50
	12	LOW	QPSK	22.05	22.04	22.23	23.50
		MID	QPSK	22.12	22.18	22.24	23.50
		HIGH	QPSK	22.07	22.01	22.08	23.50
	25	LOW	QPSK	22.03	22.26	22.18	23.50
5	1	LOW	Q16	22.00	22.28	22.17	23.50
		MID	Q16	22.10	22.70	22.25	23.50
		HIGH	Q16	21.89	22.45	21.98	23.50
	12	LOW	Q16	21.27	21.22	21.12	22.50
		MID	Q16	21.28	21.33	21.37	22.50
		HIGH	Q16	20.93	21.38	21.12	22.50
	25	LOW	Q16	21.07	21.30	21.13	22.50
5	1	LOW	64QAM	20.96	21.37	21.11	22.50
		MID	64QAM	21.22	21.52	21.23	22.50
		HIGH	64QAM	21.01	21.41	21.10	22.50
	12	LOW	64QAM	20.24	20.28	20.37	21.50
		MID	64QAM	20.30	20.23	20.21	21.50
		HIGH	64QAM	20.09	20.26	20.27	21.50
	25	LOW	64QAM	19.99	20.31	20.25	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	23.00	23.05	23.04	24.50
		MID	QPSK	23.17	23.22	**23.27**	24.50
		HIGH	QPSK	23.04	23.03	23.11	24.50
	25	LOW	QPSK	21.98	22.16	22.18	23.50
		MID	QPSK	22.04	22.11	22.12	23.50
		HIGH	QPSK	21.97	22.12	22.02	23.50
	50	LOW	QPSK	22.01	22.18	22.07	23.50
10	1	LOW	Q16	22.11	22.37	22.12	23.50
		MID	Q16	22.12	**22.55**	22.28	23.50
		HIGH	Q16	21.97	22.50	22.04	23.50
	25	LOW	Q16	21.12	21.27	21.26	22.50
		MID	Q16	21.17	21.24	21.28	22.50
		HIGH	Q16	21.08	21.25	21.14	22.50
	50	LOW	Q16	21.08	21.22	21.19	22.50
10	1	LOW	64QAM	21.00	21.40	21.23	22.50
		MID	64QAM	21.23	21.49	21.33	22.50
		HIGH	64QAM	20.95	**21.50**	20.89	22.50
	25	LOW	64QAM	20.13	20.32	20.22	21.50
		MID	64QAM	20.30	20.38	20.17	21.50
		HIGH	64QAM	20.16	20.16	20.22	21.50
	50	LOW	64QAM	20.11	20.08	20.28	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.15	23.11	23.05	25.00
		MID	QPSK	23.24	23.23	23.33	25.00
		HIGH	QPSK	23.11	23.05	23.07	25.00
	3	LOW	QPSK	**23.34**	23.18	23.16	25.00
		MID	QPSK	23.32	23.23	23.19	25.00
		HIGH	QPSK	23.30	23.19	23.16	25.00
	6	LOW	QPSK	22.09	22.10	22.04	24.00
1.4	1	LOW	Q16	22.23	22.45	22.13	24.00
		MID	Q16	22.42	22.57	22.16	24.00
		HIGH	Q16	22.32	22.43	22.02	24.00
	3	LOW	Q16	22.38	22.34	22.17	24.00
		MID	Q16	22.35	22.36	22.24	24.00
		HIGH	Q16	22.28	22.33	22.21	24.00
	6	LOW	Q16	21.33	21.07	21.22	23.00
1.4	1	LOW	64QAM	21.27	21.37	21.02	23.00
		MID	64QAM	21.28	21.52	21.13	23.00
		HIGH	64QAM	21.36	21.30	21.11	23.00
	3	LOW	64QAM	21.50	21.20	21.14	23.00
		MID	64QAM	21.29	21.38	21.33	23.00
		HIGH	64QAM	21.13	21.23	21.19	23.00
	6	LOW	64QAM	20.31	20.14	20.08	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	23.02	23.02	23.04	25.00
		MID	QPSK	23.08	**23.37**	23.35	25.00
		HIGH	QPSK	23.04	23.08	23.06	25.00
	8	LOW	QPSK	22.04	22.19	22.27	24.00
		MID	QPSK	22.13	22.24	22.08	24.00
		HIGH	QPSK	22.08	22.10	22.03	24.00
	15	LOW	QPSK	22.10	22.05	22.03	24.00
3	1	LOW	Q16	22.13	22.48	22.18	24.00
		MID	Q16	22.24	22.48	22.42	24.00
		HIGH	Q16	22.06	22.44	22.02	24.00
	8	LOW	Q16	21.12	21.32	21.23	23.00
		MID	Q16	21.09	21.38	21.16	23.00
		HIGH	Q16	21.00	21.13	21.11	23.00
	15	LOW	Q16	21.22	21.13	21.05	23.00
3	1	LOW	64QAM	21.20	21.30	21.12	23.00
		MID	64QAM	21.22	21.66	21.29	23.00
		HIGH	64QAM	21.10	21.35	21.01	23.00
	8	LOW	64QAM	21.07	20.24	20.12	22.00
		MID	64QAM	20.13	20.37	20.38	22.00
		HIGH	64QAM	20.14	20.14	20.20	22.00
	15	LOW	64QAM	20.22	20.20	20.18	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	22.93	23.03	23.02	24.50
		MID	QPSK	23.16	23.24	**23.42**	24.50
		HIGH	QPSK	22.91	23.01	23.00	24.50
	12	LOW	QPSK	22.05	22.04	22.23	23.50
		MID	QPSK	22.12	22.18	22.24	23.50
		HIGH	QPSK	22.07	22.01	22.08	23.50
	25	LOW	QPSK	22.03	22.26	22.18	23.50
5	1	LOW	Q16	22.00	22.28	22.17	23.50
		MID	Q16	22.10	22.70	22.25	23.50
		HIGH	Q16	21.89	22.45	21.98	23.50
	12	LOW	Q16	21.27	21.22	21.12	22.50
		MID	Q16	21.28	21.33	21.37	22.50
		HIGH	Q16	20.93	21.38	21.12	22.50
	25	LOW	Q16	21.07	21.30	21.13	22.50
5	1	LOW	64QAM	20.96	21.37	21.11	22.50
		MID	64QAM	21.22	21.52	21.23	22.50
		HIGH	64QAM	21.01	21.41	21.10	22.50
	12	LOW	64QAM	20.24	20.28	20.37	21.50
		MID	64QAM	20.30	20.23	20.21	21.50
		HIGH	64QAM	20.09	20.26	20.27	21.50
	25	LOW	64QAM	19.99	20.31	20.25	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	23.00	23.05	23.04	24.50
		MID	QPSK	23.17	23.22	**23.27**	24.50
		HIGH	QPSK	23.04	23.03	23.11	24.50
	25	LOW	QPSK	21.98	22.16	22.18	23.50
		MID	QPSK	22.04	22.11	22.12	23.50
		HIGH	QPSK	21.97	22.12	22.02	23.50
	50	LOW	QPSK	22.01	22.18	22.07	23.50
10	1	LOW	Q16	22.11	22.37	22.12	23.50
		MID	Q16	22.12	**22.55**	22.28	23.50
		HIGH	Q16	21.97	22.50	22.04	23.50
	25	LOW	Q16	21.12	21.27	21.26	22.50
		MID	Q16	21.17	21.24	21.28	22.50
		HIGH	Q16	21.08	21.25	21.14	22.50
	50	LOW	Q16	21.08	21.22	21.19	22.50
10	1	LOW	64QAM	21.00	21.40	21.23	22.50
		MID	64QAM	21.23	21.49	21.33	22.50
		HIGH	64QAM	20.95	**21.50**	20.89	22.50
	25	LOW	64QAM	20.13	20.32	20.22	21.50
		MID	64QAM	20.30	20.38	20.17	21.50
		HIGH	64QAM	20.16	20.16	20.22	21.50
	50	LOW	64QAM	20.11	20.08	20.28	21.50

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Bandwidth (MHz)	RB Size	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	QPSK	22.44	22.55	22.45	23.50
		MID	QPSK	22.61	**22.67**	22.39	23.50
		HIGH	QPSK	22.49	22.52	22.23	23.50
	12	LOW	QPSK	21.53	21.51	21.50	22.50
		MID	QPSK	21.42	21.51	21.64	22.50
		HIGH	QPSK	21.38	21.43	21.38	22.50
	25	LOW	QPSK	21.54	21.54	21.63	22.50
5	1	LOW	Q16	21.72	21.76	21.48	22.50
		MID	Q16	21.90	21.85	21.81	22.50
		HIGH	Q16	21.61	21.67	21.60	22.50
	12	LOW	Q16	20.55	20.64	20.39	21.50
		MID	Q16	20.63	20.65	20.61	21.50
		HIGH	Q16	20.40	20.62	20.42	21.50
	25	LOW	Q16	20.32	20.34	20.67	21.50
5	1	LOW	64QAM	20.79	20.59	20.55	21.50
		MID	64QAM	20.81	20.89	20.81	21.50
		HIGH	64QAM	20.78	20.45	20.46	21.50
	12	LOW	64QAM	19.36	19.63	19.46	20.50
		MID	64QAM	19.42	19.56	19.65	20.50
		HIGH	64QAM	19.32	19.63	19.40	20.50
	25	LOW	64QAM	19.54	19.59	19.45	20.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	QPSK	22.23	22.45	22.50	23.50
		MID	QPSK	**22.74**	22.62	22.49	23.50
		HIGH	QPSK	22.27	22.53	22.24	23.50
	25	LOW	QPSK	21.46	21.67	21.51	22.50
		MID	QPSK	21.56	21.66	21.67	22.50
		HIGH	QPSK	21.30	21.56	21.60	22.50
	50	LOW	QPSK	21.49	21.39	21.60	22.50
10	1	LOW	Q16	21.68	21.79	21.69	22.50
		MID	Q16	21.79	21.82	21.73	22.50
		HIGH	Q16	21.65	21.51	21.55	22.50
	25	LOW	Q16	20.48	20.63	20.40	21.50
		MID	Q16	20.34	20.68	20.65	21.50
		HIGH	Q16	20.42	20.39	20.29	21.50
	50	LOW	Q16	20.47	20.41	20.62	21.50
10	1	LOW	64QAM	20.58	20.72	20.55	21.50
		MID	64QAM	20.80	21.08	20.64	21.50
		HIGH	64QAM	20.57	20.46	20.55	21.50
	25	LOW	64QAM	19.39	19.50	19.41	20.50
		MID	64QAM	19.55	19.44	19.41	20.50
		HIGH	64QAM	19.41	19.46	19.45	20.50
	50	LOW	64QAM	19.32	19.57	19.55	20.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	QPSK	22.34	22.62	22.28	23.50
		MID	QPSK	22.56	**22.67**	**22.67**	23.50
		HIGH	QPSK	22.53	22.47	22.24	23.50
	36	LOW	QPSK	21.46	21.50	21.38	22.50
		MID	QPSK	21.43	21.67	21.64	22.50
		HIGH	QPSK	21.28	21.52	21.62	22.50
	75	LOW	QPSK	21.43	21.48	21.52	22.50
15	1	LOW	Q16	21.69	21.60	21.65	22.50
		MID	Q16	21.93	21.88	21.68	22.50
		HIGH	Q16	21.79	21.43	21.61	22.50
	36	LOW	Q16	20.42	20.48	20.48	21.50
		MID	Q16	20.53	20.45	20.47	21.50
		HIGH	Q16	20.25	20.47	20.45	21.50
	75	LOW	Q16	20.42	20.57	20.67	21.50
15	1	LOW	64QAM	20.76	20.69	20.46	21.50
		MID	64QAM	20.95	20.85	20.82	21.50
		HIGH	64QAM	20.64	20.72	20.59	21.50
	36	LOW	64QAM	19.33	19.44	19.54	20.50
		MID	64QAM	19.54	19.45	19.53	20.50
		HIGH	64QAM	19.52	19.53	19.54	20.50
	75	LOW	64QAM	19.45	19.43	19.45	20.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	QPSK	22.38	22.48	22.35	23.50
		MID	QPSK	22.65	**22.73**	22.54	23.50
		HIGH	QPSK	22.38	22.41	22.27	23.50
	50	LOW	QPSK	21.42	21.52	21.52	22.50
		MID	QPSK	21.46	21.57	21.54	22.50
		HIGH	QPSK	21.41	21.50	21.48	22.50
	100	LOW	QPSK	21.45	21.51	21.54	22.50
20	1	LOW	Q16	21.68	21.66	21.54	22.50
		MID	Q16	21.88	**21.97**	21.77	22.50
		HIGH	Q16	21.65	21.57	21.54	22.50
	50	LOW	Q16	20.42	20.50	20.47	21.50
		MID	Q16	20.48	20.54	20.50	21.50
		HIGH	Q16	20.39	20.51	20.42	21.50
	100	LOW	Q16	20.45	20.48	20.55	21.50
20	1	LOW	64QAM	20.65	20.56	20.58	21.50
		MID	64QAM	20.85	**20.94**	20.87	21.50
		HIGH	64QAM	20.66	20.45	20.44	21.50
	50	LOW	64QAM	19.39	19.40	19.36	20.50
		MID	64QAM	19.63	19.39	19.58	20.50
		HIGH	64QAM	19.29	19.42	19.35	20.50
	100	LOW	64QAM	19.60	19.52	19.47	20.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	0	QPSK	17.00	16.88	16.79	18.00
		MID	12	QPSK	17.16	**17.43**	17.17	18.00
		HIGH	24	QPSK	16.90	16.92	16.97	18.00
	12	LOW	0	QPSK	16.75	17.02	17.09	18.00
		MID	7	QPSK	16.83	17.13	16.96	18.00
		HIGH	13	QPSK	16.98	16.84	16.90	18.00
	25	LOW	0	QPSK	16.99	17.12	17.03	18.00
5	1	LOW	0	Q16	17.19	16.96	17.15	18.00
		MID	12	Q16	17.06	17.40	17.35	18.00
		HIGH	24	Q16	17.22	16.94	17.19	18.00
	12	LOW	0	Q16	16.82	17.08	17.01	18.00
		MID	7	Q16	16.83	17.07	16.78	18.00
		HIGH	13	Q16	16.97	16.97	16.74	18.00
	25	LOW	0	Q16	16.75	16.91	17.07	18.00
5	1	LOW	0	64QAM	17.14	17.13	16.96	18.00
		MID	12	64QAM	17.24	17.39	17.31	18.00
		HIGH	24	64QAM	16.96	16.96	16.98	18.00
	12	LOW	0	64QAM	16.79	17.02	16.85	18.00
		MID	7	64QAM	16.81	16.94	16.98	18.00
		HIGH	13	64QAM	16.97	17.08	16.92	18.00
	25	LOW	0	64QAM	16.75	16.94	16.89	18.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	0	QPSK	16.89	17.08	16.87	18.00
		MID	25	QPSK	17.20	**17.37**	16.99	18.00
		HIGH	49	QPSK	16.87	17.02	17.01	18.00
	25	LOW	0	QPSK	16.89	16.98	16.98	18.00
		MID	12	QPSK	17.00	17.01	17.04	18.00
		HIGH	25	QPSK	16.84	16.98	16.97	18.00
	50	LOW	0	QPSK	16.73	16.92	16.96	18.00
10	1	LOW	0	Q16	17.21	17.13	17.04	18.00
		MID	25	Q16	17.11	17.29	17.15	18.00
		HIGH	49	Q16	17.12	17.03	17.12	18.00
	25	LOW	0	Q16	16.81	16.99	16.99	18.00
		MID	12	Q16	17.00	16.96	16.98	18.00
		HIGH	25	Q16	16.97	16.97	16.99	18.00
	50	LOW	0	Q16	16.73	16.99	16.90	18.00
10	1	LOW	0	64QAM	17.10	17.16	16.94	18.00
		MID	25	64QAM	17.20	17.25	17.19	18.00
		HIGH	49	64QAM	16.94	17.10	17.08	18.00
	25	LOW	0	64QAM	16.90	16.87	17.04	18.00
		MID	12	64QAM	16.83	16.99	17.01	18.00
		HIGH	25	64QAM	16.92	17.09	16.80	18.00
	50	LOW	0	64QAM	16.93	17.00	16.84	18.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	0	QPSK	16.79	16.88	16.84	18.00
		MID	37	QPSK	17.20	17.34	17.05	18.00
		HIGH	74	QPSK	16.90	16.79	16.76	18.00
	36	LOW	0	QPSK	16.73	16.93	17.09	18.00
		MID	20	QPSK	16.93	17.02	17.07	18.00
		HIGH	39	QPSK	16.83	16.93	17.06	18.00
	75	LOW	0	QPSK	16.92	16.94	16.82	18.00
15	1	LOW	0	Q16	17.07	16.96	17.10	18.00
		MID	37	Q16	17.04	17.17	17.21	18.00
		HIGH	74	Q16	16.97	17.22	16.90	18.00
	36	LOW	0	Q16	16.93	17.01	17.04	18.00
		MID	20	Q16	16.90	17.09	17.04	18.00
		HIGH	39	Q16	16.73	16.93	16.80	18.00
	75	LOW	0	Q16	16.91	16.99	16.81	18.00
15	1	LOW	0	64QAM	17.15	17.15	17.08	18.00
		MID	37	64QAM	17.28	17.34	**17.35**	18.00
		HIGH	74	64QAM	16.96	17.20	16.97	18.00
	36	LOW	0	64QAM	16.87	17.08	17.05	18.00
		MID	20	64QAM	17.01	17.10	16.78	18.00
		HIGH	39	64QAM	16.94	16.92	16.87	18.00
	75	LOW	0	64QAM	16.90	17.04	17.06	18.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	0	QPSK	16.86	16.94	16.91	18.00
		MID	49	QPSK	17.13	**17.32**	17.05	18.00
		HIGH	99	QPSK	16.84	16.92	16.87	18.00
	50	LOW	0	QPSK	16.88	16.95	16.96	18.00
		MID	24	QPSK	16.95	17.03	16.98	18.00
		HIGH	50	QPSK	16.87	16.99	16.92	18.00
	100	LOW	0	QPSK	16.87	16.98	16.97	18.00
20	1	LOW	0	Q16	17.09	17.08	17.01	18.00
		MID	49	Q16	17.19	**17.26**	17.22	18.00
		HIGH	99	Q16	17.07	17.07	17.04	18.00
	50	LOW	0	Q16	16.85	16.94	16.90	18.00
		MID	24	Q16	16.91	16.97	16.91	18.00
		HIGH	50	Q16	16.86	16.99	16.85	18.00
	100	LOW	0	Q16	16.88	16.92	16.92	18.00
20	1	LOW	0	64QAM	16.99	17.22	16.91	18.00
		MID	49	64QAM	**17.27**	17.26	**17.27**	18.00
		HIGH	99	64QAM	17.04	17.13	17.03	18.00
	50	LOW	0	64QAM	16.99	17.04	17.03	18.00
		MID	24	64QAM	16.94	17.02	16.99	18.00
		HIGH	50	64QAM	16.72	17.14	16.91	18.00
	100	LOW	0	64QAM	16.73	17.04	16.94	18.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	0	QPSK	15.95	15.94	16.14	17.00
		MID	12	QPSK	16.19	16.30	16.05	17.00
		HIGH	24	QPSK	15.87	15.95	15.90	17.00
	12	LOW	0	QPSK	16.03	16.02	16.06	17.00
		MID	7	QPSK	15.95	16.02	16.09	17.00
		HIGH	13	QPSK	15.84	15.98	15.90	17.00
	25	LOW	0	QPSK	15.99	16.12	15.93	17.00
5	1	LOW	0	Q16	16.23	16.32	16.13	17.00
		MID	12	Q16	16.52	16.48	16.38	17.00
		HIGH	24	Q16	16.26	16.23	16.19	17.00
	12	LOW	0	Q16	15.96	16.20	16.09	17.00
		MID	7	Q16	16.10	16.08	16.14	17.00
		HIGH	13	Q16	15.89	16.05	15.83	17.00
	25	LOW	0	Q16	15.90	15.98	15.96	17.00
5	1	LOW	0	64QAM	16.31	16.08	16.19	17.00
		MID	12	64QAM	16.33	16.62	16.34	17.00
		HIGH	24	64QAM	16.20	16.12	16.08	17.00
	12	LOW	0	64QAM	16.06	15.95	15.92	17.00
		MID	7	64QAM	16.16	16.04	16.15	17.00
		HIGH	13	64QAM	15.95	16.24	15.85	17.00
	25	LOW	0	64QAM	16.01	16.18	16.10	17.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	0	QPSK	16.04	16.02	16.13	17.00
		MID	25	QPSK	16.33	16.32	16.06	17.00
		HIGH	49	QPSK	16.06	16.18	16.02	17.00
	25	LOW	0	QPSK	16.01	16.13	16.01	17.00
		MID	12	QPSK	15.98	16.20	15.96	17.00
		HIGH	25	QPSK	16.09	15.92	16.09	17.00
	50	LOW	0	QPSK	15.98	16.03	15.93	17.00
10	1	LOW	0	Q16	16.05	16.18	16.22	17.00
		MID	25	Q16	16.31	16.51	16.36	17.00
		HIGH	49	Q16	16.12	16.26	16.11	17.00
	25	LOW	0	Q16	16.00	15.96	16.08	17.00
		MID	12	Q16	16.02	16.20	15.99	17.00
		HIGH	25	Q16	15.92	16.01	16.08	17.00
	50	LOW	0	Q16	15.90	16.03	16.08	17.00
10	1	LOW	0	64QAM	16.14	16.29	16.27	17.00
		MID	25	64QAM	16.47	16.48	16.25	17.00
		HIGH	49	64QAM	16.11	16.27	16.26	17.00
	25	LOW	0	64QAM	15.94	16.18	16.11	17.00
		MID	12	64QAM	16.00	16.07	16.12	17.00
		HIGH	25	64QAM	15.93	16.05	16.04	17.00
	50	LOW	0	64QAM	16.07	16.16	16.02	17.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	0	QPSK	15.99	16.14	15.87	17.00
		MID	37	QPSK	16.37	16.15	16.21	17.00
		HIGH	74	QPSK	15.88	15.90	16.13	17.00
	36	LOW	0	QPSK	16.04	15.93	15.91	17.00
		MID	20	QPSK	16.05	16.00	16.11	17.00
		HIGH	39	QPSK	16.11	15.94	16.13	17.00
	75	LOW	0	QPSK	15.90	15.99	16.03	17.00
15	1	LOW	0	Q16	16.14	16.10	16.20	17.00
		MID	37	Q16	16.45	16.46	16.28	17.00
		HIGH	74	Q16	16.31	16.02	16.00	17.00
	36	LOW	0	Q16	15.92	15.98	15.89	17.00
		MID	20	Q16	15.97	16.13	16.06	17.00
		HIGH	39	Q16	16.00	16.08	16.06	17.00
	75	LOW	0	Q16	16.01	16.00	16.11	17.00
15	1	LOW	0	64QAM	16.13	16.30	16.05	17.00
		MID	37	64QAM	16.51	16.60	16.23	17.00
		HIGH	74	64QAM	16.36	16.02	16.24	17.00
	36	LOW	0	64QAM	15.88	16.16	15.91	17.00
		MID	20	64QAM	15.87	15.98	15.92	17.00
		HIGH	39	64QAM	16.13	16.22	16.02	17.00
	75	LOW	0	64QAM	16.13	16.06	16.03	17.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	0	QPSK	15.97	16.02	16.00	17.00
		MID	49	QPSK	16.25	**16.28**	16.20	17.00
		HIGH	99	QPSK	15.98	16.03	16.00	17.00
	50	LOW	0	QPSK	15.93	16.04	16.03	17.00
		MID	24	QPSK	16.03	16.07	16.03	17.00
		HIGH	50	QPSK	15.96	16.04	15.99	17.00
	100	LOW	0	QPSK	15.98	16.05	16.02	17.00
20	1	LOW	0	Q16	16.17	16.20	16.12	17.00
		MID	49	Q16	16.40	**16.54**	16.35	17.00
		HIGH	99	Q16	16.23	16.15	16.15	17.00
	50	LOW	0	Q16	15.98	16.07	16.01	17.00
		MID	24	Q16	16.02	16.05	16.01	17.00
		HIGH	50	Q16	16.00	16.10	15.95	17.00
	100	LOW	0	Q16	16.01	16.06	16.01	17.00
20	1	LOW	0	64QAM	16.20	16.13	15.99	17.00
		MID	49	64QAM	16.38	**16.56**	16.44	17.00
		HIGH	99	64QAM	16.21	16.19	16.14	17.00
	50	LOW	0	64QAM	15.97	16.22	16.05	17.00
		MID	24	64QAM	16.15	16.16	15.92	17.00
		HIGH	50	64QAM	16.03	16.04	15.90	17.00
	100	LOW	0	64QAM	16.03	16.14	15.96	17.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	0	QPSK	19.12	19.16	19.18	20.00
		MID	12	QPSK	19.51	19.54	19.52	20.00
		HIGH	24	QPSK	18.96	19.08	19.08	20.00
	12	LOW	0	QPSK	19.22	19.24	19.08	20.00
		MID	7	QPSK	19.15	19.15	19.23	20.00
		HIGH	13	QPSK	19.06	19.23	19.11	20.00
	25	LOW	0	QPSK	19.09	19.36	19.22	20.00
5	1	LOW	0	Q16	19.50	19.30	19.28	20.00
		MID	12	Q16	19.70	19.57	19.72	20.00
		HIGH	24	Q16	19.33	19.39	19.47	20.00
	12	LOW	0	Q16	19.23	19.10	19.29	20.00
		MID	7	Q16	19.34	19.31	19.36	20.00
		HIGH	13	Q16	19.10	19.21	19.09	20.00
	25	LOW	0	Q16	19.04	19.25	19.19	20.00
5	1	LOW	0	64QAM	19.30	19.54	19.35	20.00
		MID	12	64QAM	19.50	19.68	19.62	20.00
		HIGH	24	64QAM	19.42	19.31	19.50	20.00
	12	LOW	0	64QAM	19.09	19.23	19.27	20.00
		MID	7	64QAM	19.22	19.19	19.26	20.00
		HIGH	13	64QAM	18.94	19.31	19.23	20.00
	25	LOW	0	64QAM	19.15	19.12	19.20	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	0	QPSK	19.17	19.12	19.19	20.00
		MID	25	QPSK	19.29	19.32	19.45	20.00
		HIGH	49	QPSK	19.09	19.34	19.23	20.00
	25	LOW	0	QPSK	19.23	19.37	19.17	20.00
		MID	12	QPSK	19.17	19.13	19.34	20.00
		HIGH	25	QPSK	19.01	19.29	19.28	20.00
	50	LOW	0	QPSK	19.27	19.06	19.12	20.00
10	1	LOW	0	Q16	19.30	19.40	19.18	20.00
		MID	25	Q16	19.49	19.68	19.78	20.00
		HIGH	49	Q16	19.41	19.46	19.39	20.00
	25	LOW	0	Q16	19.28	19.12	19.16	20.00
		MID	12	Q16	19.21	19.37	19.18	20.00
		HIGH	25	Q16	19.10	19.33	19.19	20.00
	50	LOW	0	Q16	19.05	19.09	19.22	20.00
10	1	LOW	0	64QAM	19.43	19.24	19.45	20.00
		MID	25	64QAM	19.57	19.64	19.51	20.00
		HIGH	49	64QAM	19.48	19.30	19.45	20.00
	25	LOW	0	64QAM	19.05	19.23	19.10	20.00
		MID	12	64QAM	19.12	19.24	19.34	20.00
		HIGH	25	64QAM	19.11	19.27	19.18	20.00
	50	LOW	0	64QAM	19.28	19.13	19.30	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	0	QPSK	19.07	19.23	19.23	20.00
		MID	37	QPSK	19.34	19.36	19.22	20.00
		HIGH	74	QPSK	19.14	19.09	19.22	20.00
	36	LOW	0	QPSK	19.07	19.34	19.25	20.00
		MID	20	QPSK	19.11	19.16	19.09	20.00
		HIGH	39	QPSK	19.17	19.24	19.29	20.00
	75	LOW	0	QPSK	19.08	19.20	19.23	20.00
15	1	LOW	0	Q16	19.38	19.31	19.35	20.00
		MID	37	Q16	19.73	19.71	19.70	20.00
		HIGH	74	Q16	19.45	19.52	19.32	20.00
	36	LOW	0	Q16	19.01	19.15	19.22	20.00
		MID	20	Q16	19.30	19.13	19.37	20.00
		HIGH	39	Q16	19.21	19.15	19.09	20.00
	75	LOW	0	Q16	19.22	19.19	19.27	20.00
15	1	LOW	0	64QAM	19.34	19.38	19.44	20.00
		MID	37	64QAM	19.62	19.68	19.52	20.00
		HIGH	74	64QAM	19.42	19.34	19.60	20.00
	36	LOW	0	64QAM	19.02	19.33	19.34	20.00
		MID	20	64QAM	19.20	19.33	19.23	20.00
		HIGH	39	64QAM	19.00	19.30	19.30	20.00
	75	LOW	0	64QAM	19.15	19.12	19.28	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	0	QPSK	19.11	19.18	19.18	20.00
		MID	49	QPSK	19.41	**19.46**	19.37	20.00
		HIGH	99	QPSK	19.09	19.19	19.20	20.00
	50	LOW	0	QPSK	19.10	19.24	19.21	20.00
		MID	24	QPSK	19.18	19.25	19.23	20.00
		HIGH	50	QPSK	19.14	19.24	19.18	20.00
	100	LOW	0	QPSK	19.15	19.21	19.23	20.00
20	1	LOW	0	Q16	19.37	19.39	19.30	20.00
		MID	49	Q16	19.59	**19.68**	19.63	20.00
		HIGH	99	Q16	19.34	19.38	19.46	20.00
	50	LOW	0	Q16	19.13	19.24	19.20	20.00
		MID	24	Q16	19.21	19.24	19.25	20.00
		HIGH	50	Q16	19.06	19.25	19.17	20.00
	100	LOW	0	Q16	19.13	19.23	19.26	20.00
20	1	LOW	0	64QAM	19.34	19.50	19.29	20.00
		MID	49	64QAM	19.67	19.59	**19.75**	20.00
		HIGH	99	64QAM	19.48	19.24	19.41	20.00
	50	LOW	0	64QAM	19.20	19.35	19.31	20.00
		MID	24	64QAM	19.18	19.13	19.11	20.00
		HIGH	50	64QAM	19.02	19.14	19.16	20.00
	100	LOW	0	64QAM	19.15	19.12	19.37	20.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	0	QPSK	17.59	17.50	17.57	18.50
		MID	12	QPSK	17.85	17.87	17.79	18.50
		HIGH	24	QPSK	17.51	17.61	17.56	18.50
	12	LOW	0	QPSK	17.58	17.81	17.55	18.50
		MID	7	QPSK	17.65	17.67	17.61	18.50
		HIGH	13	QPSK	17.68	17.75	17.51	18.50
	25	LOW	0	QPSK	17.60	17.61	17.75	18.50
5	1	LOW	0	Q16	17.76	17.70	17.69	18.50
		MID	12	Q16	18.06	18.10	18.10	18.50
		HIGH	24	Q16	17.74	17.64	17.74	18.50
	12	LOW	0	Q16	17.48	17.80	17.57	18.50
		MID	7	Q16	17.77	17.55	17.66	18.50
		HIGH	13	Q16	17.46	17.77	17.52	18.50
	25	LOW	0	Q16	17.52	17.57	17.56	18.50
5	1	LOW	0	64QAM	17.89	17.75	17.79	18.50
		MID	12	64QAM	18.01	18.14	18.04	18.50
		HIGH	24	64QAM	17.70	17.91	17.79	18.50
	12	LOW	0	64QAM	17.62	17.55	17.68	18.50
		MID	7	64QAM	17.67	17.79	17.53	18.50
		HIGH	13	64QAM	17.46	17.78	17.55	18.50
	25	LOW	0	64QAM	17.67	17.56	17.58	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	0	QPSK	17.53	17.75	17.46	18.50
		MID	25	QPSK	17.71	17.83	17.80	18.50
		HIGH	49	QPSK	17.73	17.67	17.57	18.50
	25	LOW	0	QPSK	17.58	17.68	17.62	18.50
		MID	12	QPSK	17.66	17.79	17.75	18.50
		HIGH	25	QPSK	17.51	17.66	17.53	18.50
	50	LOW	0	QPSK	17.63	17.75	17.63	18.50
10	1	LOW	0	Q16	17.69	17.76	17.79	18.50
		MID	25	Q16	17.86	18.08	18.08	18.50
		HIGH	49	Q16	17.87	17.87	17.68	18.50
	25	LOW	0	Q16	17.46	17.58	17.62	18.50
		MID	12	Q16	17.68	17.79	17.73	18.50
		HIGH	25	Q16	17.67	17.65	17.53	18.50
	50	LOW	0	Q16	17.48	17.74	17.80	18.50
10	1	LOW	0	64QAM	17.82	17.72	17.58	18.50
		MID	25	64QAM	17.88	18.23	18.05	18.50
		HIGH	49	64QAM	17.93	17.74	17.85	18.50
	25	LOW	0	64QAM	17.50	17.63	17.72	18.50
		MID	12	64QAM	17.59	17.55	17.67	18.50
		HIGH	25	64QAM	17.42	17.80	17.72	18.50
	50	LOW	0	64QAM	17.51	17.77	17.72	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	0	QPSK	17.45	17.69	17.53	18.50
		MID	37	QPSK	17.81	17.97	17.86	18.50
		HIGH	74	QPSK	17.49	17.51	17.69	18.50
	36	LOW	0	QPSK	17.68	17.81	17.68	18.50
		MID	20	QPSK	17.66	17.81	17.65	18.50
		HIGH	39	QPSK	17.73	17.60	17.59	18.50
	75	LOW	0	QPSK	17.74	17.65	17.79	18.50
15	1	LOW	0	Q16	17.82	17.79	17.72	18.50
		MID	37	Q16	18.13	18.05	17.92	18.50
		HIGH	74	Q16	17.81	17.66	17.85	18.50
	36	LOW	0	Q16	17.42	17.66	17.72	18.50
		MID	20	Q16	17.62	17.62	17.74	18.50
		HIGH	39	Q16	17.67	17.78	17.53	18.50
	75	LOW	0	Q16	17.75	17.69	17.69	18.50
15	1	LOW	0	64QAM	17.79	17.79	17.80	18.50
		MID	37	64QAM	18.02	18.29	17.96	18.50
		HIGH	74	64QAM	17.73	17.84	17.90	18.50
	36	LOW	0	64QAM	17.64	17.72	17.66	18.50
		MID	20	64QAM	17.73	17.66	17.61	18.50
		HIGH	39	64QAM	17.65	17.80	17.46	18.50
	75	LOW	0	64QAM	17.45	17.50	17.55	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	0	QPSK	17.52	17.61	17.60	18.50
		MID	49	QPSK	17.79	**17.89**	17.84	18.50
		HIGH	99	QPSK	17.58	17.64	17.62	18.50
	50	LOW	0	QPSK	17.58	17.70	17.70	18.50
		MID	24	QPSK	17.66	17.71	17.72	18.50
		HIGH	50	QPSK	17.60	17.73	17.61	18.50
	100	LOW	0	QPSK	17.61	17.69	17.67	18.50
20	1	LOW	0	Q16	17.79	17.78	17.70	18.50
		MID	49	Q16	17.99	**18.16**	17.97	18.50
		HIGH	99	Q16	17.84	17.76	17.80	18.50
	50	LOW	0	Q16	17.56	17.67	17.62	18.50
		MID	24	Q16	17.62	17.68	17.65	18.50
		HIGH	50	Q16	17.57	17.70	17.58	18.50
	100	LOW	0	Q16	17.60	17.65	17.65	18.50
20	1	LOW	0	64QAM	17.80	17.72	17.83	18.50
		MID	49	64QAM	17.98	**18.10**	17.89	18.50
		HIGH	99	64QAM	17.83	17.75	17.66	18.50
	50	LOW	0	64QAM	17.47	17.80	17.75	18.50
		MID	24	64QAM	17.49	17.61	17.57	18.50
		HIGH	50	64QAM	17.49	17.62	17.65	18.50
	100	LOW	0	64QAM	17.72	17.56	17.55	18.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	0	QPSK	17.59	17.50	17.57	18.50
		MID	12	QPSK	17.85	17.87	17.79	18.50
		HIGH	24	QPSK	17.51	17.61	17.56	18.50
	12	LOW	0	QPSK	17.58	17.81	17.55	18.50
		MID	7	QPSK	17.65	17.67	17.61	18.50
		HIGH	13	QPSK	17.68	17.75	17.51	18.50
	25	LOW	0	QPSK	17.60	17.61	17.75	18.50
5	1	LOW	0	Q16	17.76	17.70	17.69	18.50
		MID	12	Q16	18.06	18.10	18.10	18.50
		HIGH	24	Q16	17.74	17.64	17.74	18.50
	12	LOW	0	Q16	17.48	17.80	17.57	18.50
		MID	7	Q16	17.77	17.55	17.66	18.50
		HIGH	13	Q16	17.46	17.77	17.52	18.50
	25	LOW	0	Q16	17.52	17.57	17.56	18.50
5	1	LOW	0	64QAM	17.89	17.75	17.79	18.50
		MID	12	64QAM	18.01	18.14	18.04	18.50
		HIGH	24	64QAM	17.70	17.91	17.79	18.50
	12	LOW	0	64QAM	17.62	17.55	17.68	18.50
		MID	7	64QAM	17.67	17.79	17.53	18.50
		HIGH	13	64QAM	17.46	17.78	17.55	18.50
	25	LOW	0	64QAM	17.67	17.56	17.58	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	0	QPSK	17.53	17.75	17.46	18.50
		MID	25	QPSK	17.71	17.83	17.80	18.50
		HIGH	49	QPSK	17.73	17.67	17.57	18.50
	25	LOW	0	QPSK	17.58	17.68	17.62	18.50
		MID	12	QPSK	17.66	17.79	17.75	18.50
		HIGH	25	QPSK	17.51	17.66	17.53	18.50
	50	LOW	0	QPSK	17.63	17.75	17.63	18.50
10	1	LOW	0	Q16	17.69	17.76	17.79	18.50
		MID	25	Q16	17.86	18.08	18.08	18.50
		HIGH	49	Q16	17.87	17.87	17.68	18.50
	25	LOW	0	Q16	17.46	17.58	17.62	18.50
		MID	12	Q16	17.68	17.79	17.73	18.50
		HIGH	25	Q16	17.67	17.65	17.53	18.50
	50	LOW	0	Q16	17.48	17.74	17.80	18.50
10	1	LOW	0	64QAM	17.82	17.72	17.58	18.50
		MID	25	64QAM	17.88	18.23	18.05	18.50
		HIGH	49	64QAM	17.93	17.74	17.85	18.50
	25	LOW	0	64QAM	17.50	17.63	17.72	18.50
		MID	12	64QAM	17.59	17.55	17.67	18.50
		HIGH	25	64QAM	17.42	17.80	17.72	18.50
	50	LOW	0	64QAM	17.51	17.77	17.72	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	0	QPSK	17.45	17.69	17.53	18.50
		MID	37	QPSK	17.81	17.97	17.86	18.50
		HIGH	74	QPSK	17.49	17.51	17.69	18.50
	36	LOW	0	QPSK	17.68	17.81	17.68	18.50
		MID	20	QPSK	17.66	17.81	17.65	18.50
		HIGH	39	QPSK	17.73	17.60	17.59	18.50
	75	LOW	0	QPSK	17.74	17.65	17.79	18.50
15	1	LOW	0	Q16	17.82	17.79	17.72	18.50
		MID	37	Q16	18.13	18.05	17.92	18.50
		HIGH	74	Q16	17.81	17.66	17.85	18.50
	36	LOW	0	Q16	17.42	17.66	17.72	18.50
		MID	20	Q16	17.62	17.62	17.74	18.50
		HIGH	39	Q16	17.67	17.78	17.53	18.50
	75	LOW	0	Q16	17.75	17.69	17.69	18.50
15	1	LOW	0	64QAM	17.79	17.79	17.80	18.50
		MID	37	64QAM	18.02	18.29	17.96	18.50
		HIGH	74	64QAM	17.73	17.84	17.90	18.50
	36	LOW	0	64QAM	17.64	17.72	17.66	18.50
		MID	20	64QAM	17.73	17.66	17.61	18.50
		HIGH	39	64QAM	17.65	17.80	17.46	18.50
	75	LOW	0	64QAM	17.45	17.50	17.55	18.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	0	QPSK	17.52	17.61	17.60	18.50
		MID	49	QPSK	17.79	**17.89**	17.84	18.50
		HIGH	99	QPSK	17.58	17.64	17.62	18.50
	50	LOW	0	QPSK	17.58	17.70	17.70	18.50
		MID	24	QPSK	17.66	17.71	17.72	18.50
		HIGH	50	QPSK	17.60	17.73	17.61	18.50
	100	LOW	0	QPSK	17.61	17.69	17.67	18.50
20	1	LOW	0	Q16	17.79	17.78	17.70	18.50
		MID	49	Q16	17.99	**18.16**	17.97	18.50
		HIGH	99	Q16	17.84	17.76	17.80	18.50
	50	LOW	0	Q16	17.56	17.67	17.62	18.50
		MID	24	Q16	17.62	17.68	17.65	18.50
		HIGH	50	Q16	17.57	17.70	17.58	18.50
	100	LOW	0	Q16	17.60	17.65	17.65	18.50
20	1	LOW	0	64QAM	17.80	17.72	17.83	18.50
		MID	49	64QAM	17.98	**18.10**	17.89	18.50
		HIGH	99	64QAM	17.83	17.75	17.66	18.50
	50	LOW	0	64QAM	17.47	17.80	17.75	18.50
		MID	24	64QAM	17.49	17.61	17.57	18.50
		HIGH	50	64QAM	17.49	17.62	17.65	18.50
	100	LOW	0	64QAM	17.72	17.56	17.55	18.50

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Bandwidth (MHz)	RB Size	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	QPSK	22.44	22.55	22.45	23.50
		MID	QPSK	22.61	**22.67**	22.39	23.50
		HIGH	QPSK	22.49	22.52	22.23	23.50
	12	LOW	QPSK	21.53	21.51	21.50	22.50
		MID	QPSK	21.42	21.51	21.64	22.50
		HIGH	QPSK	21.38	21.43	21.38	22.50
	25	LOW	QPSK	21.54	21.54	21.63	22.50
5	1	LOW	Q16	21.72	21.76	21.48	22.50
		MID	Q16	21.90	21.85	21.81	22.50
		HIGH	Q16	21.61	21.67	21.60	22.50
	12	LOW	Q16	20.55	20.64	20.39	21.50
		MID	Q16	20.63	20.65	20.61	21.50
		HIGH	Q16	20.40	20.62	20.42	21.50
	25	LOW	Q16	20.32	20.34	20.67	21.50
5	1	LOW	64QAM	20.79	20.59	20.55	21.50
		MID	64QAM	20.81	20.89	20.81	21.50
		HIGH	64QAM	20.78	20.45	20.46	21.50
	12	LOW	64QAM	19.36	19.63	19.46	20.50
		MID	64QAM	19.42	19.56	19.65	20.50
		HIGH	64QAM	19.32	19.63	19.40	20.50
	25	LOW	64QAM	19.54	19.59	19.45	20.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	QPSK	22.23	22.45	22.50	23.50
		MID	QPSK	**22.74**	22.62	22.49	23.50
		HIGH	QPSK	22.27	22.53	22.24	23.50
	25	LOW	QPSK	21.46	21.67	21.51	22.50
		MID	QPSK	21.56	21.66	21.67	22.50
		HIGH	QPSK	21.30	21.56	21.60	22.50
	50	LOW	QPSK	21.49	21.39	21.60	22.50
10	1	LOW	Q16	21.68	21.79	21.69	22.50
		MID	Q16	21.79	21.82	21.73	22.50
		HIGH	Q16	21.65	21.51	21.55	22.50
	25	LOW	Q16	20.48	20.63	20.40	21.50
		MID	Q16	20.34	20.68	20.65	21.50
		HIGH	Q16	20.42	20.39	20.29	21.50
	50	LOW	Q16	20.47	20.41	20.62	21.50
10	1	LOW	64QAM	20.58	20.72	20.55	21.50
		MID	64QAM	20.80	21.08	20.64	21.50
		HIGH	64QAM	20.57	20.46	20.55	21.50
	25	LOW	64QAM	19.39	19.50	19.41	20.50
		MID	64QAM	19.55	19.44	19.41	20.50
		HIGH	64QAM	19.41	19.46	19.45	20.50
	50	LOW	64QAM	19.32	19.57	19.55	20.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	QPSK	22.34	22.62	22.28	23.50
		MID	QPSK	22.56	**22.67**	**22.67**	23.50
		HIGH	QPSK	22.53	22.47	22.24	23.50
	36	LOW	QPSK	21.46	21.50	21.38	22.50
		MID	QPSK	21.43	21.67	21.64	22.50
		HIGH	QPSK	21.28	21.52	21.62	22.50
	75	LOW	QPSK	21.43	21.48	21.52	22.50
15	1	LOW	Q16	21.69	21.60	21.65	22.50
		MID	Q16	21.93	21.88	21.68	22.50
		HIGH	Q16	21.79	21.43	21.61	22.50
	36	LOW	Q16	20.42	20.48	20.48	21.50
		MID	Q16	20.53	20.45	20.47	21.50
		HIGH	Q16	20.25	20.47	20.45	21.50
	75	LOW	Q16	20.42	20.57	20.67	21.50
15	1	LOW	64QAM	20.76	20.69	20.46	21.50
		MID	64QAM	20.95	20.85	20.82	21.50
		HIGH	64QAM	20.64	20.72	20.59	21.50
	36	LOW	64QAM	19.33	19.44	19.54	20.50
		MID	64QAM	19.54	19.45	19.53	20.50
		HIGH	64QAM	19.52	19.53	19.54	20.50
	75	LOW	64QAM	19.45	19.43	19.45	20.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	QPSK	22.38	22.48	22.35	23.50
		MID	QPSK	22.65	**22.73**	22.54	23.50
		HIGH	QPSK	22.38	22.41	22.27	23.50
	50	LOW	QPSK	21.42	21.52	21.52	22.50
		MID	QPSK	21.46	21.57	21.54	22.50
		HIGH	QPSK	21.41	21.50	21.48	22.50
	100	LOW	QPSK	21.45	21.51	21.54	22.50
20	1	LOW	Q16	21.68	21.66	21.54	22.50
		MID	Q16	21.88	**21.97**	21.77	22.50
		HIGH	Q16	21.65	21.57	21.54	22.50
	50	LOW	Q16	20.42	20.50	20.47	21.50
		MID	Q16	20.48	20.54	20.50	21.50
		HIGH	Q16	20.39	20.51	20.42	21.50
	100	LOW	Q16	20.45	20.48	20.55	21.50
20	1	LOW	64QAM	20.65	20.56	20.58	21.50
		MID	64QAM	20.85	**20.94**	20.87	21.50
		HIGH	64QAM	20.66	20.45	20.44	21.50
	50	LOW	64QAM	19.39	19.40	19.36	20.50
		MID	64QAM	19.63	19.39	19.58	20.50
		HIGH	64QAM	19.29	19.42	19.35	20.50
	100	LOW	64QAM	19.60	19.52	19.47	20.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	QPSK	22.04	22.18	22.23	23.50
		MID	QPSK	22.58	22.44	**22.62**	23.50
		HIGH	QPSK	22.25	22.17	22.31	23.50
	12	LOW	QPSK	21.37	21.52	21.57	22.50
		MID	QPSK	21.44	21.34	21.55	22.50
		HIGH	QPSK	21.39	21.34	21.43	22.50
	25	LOW	QPSK	21.35	21.42	21.58	22.50
5	1	LOW	Q16	21.56	21.57	21.97	22.50
		MID	Q16	21.81	21.84	22.12	22.50
		HIGH	Q16	21.55	21.74	21.74	22.50
	12	LOW	Q16	20.18	20.46	20.28	21.50
		MID	Q16	20.18	20.25	20.49	21.50
		HIGH	Q16	20.11	20.28	20.28	21.50
	25	LOW	Q16	20.34	20.45	20.50	21.50
5	1	LOW	64QAM	20.64	20.46	20.72	21.50
		MID	64QAM	20.94	21.00	21.13	21.50
		HIGH	64QAM	20.54	20.68	20.82	21.50
	12	LOW	64QAM	19.17	19.20	19.47	20.50
		MID	64QAM	19.08	19.39	19.40	20.50
		HIGH	64QAM	19.09	19.41	19.31	20.50
	25	LOW	64QAM	19.19	19.32	19.53	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	QPSK	22.31	22.13	22.29	23.50
		MID	QPSK	22.46	**22.57**	22.39	23.50
		HIGH	QPSK	22.33	22.21	22.24	23.50
	25	LOW	QPSK	21.37	21.52	21.33	22.50
		MID	QPSK	21.32	21.41	21.51	22.50
		HIGH	QPSK	21.20	21.34	21.50	22.50
	50	LOW	QPSK	21.17	21.26	21.56	22.50
10	1	LOW	Q16	21.44	21.68	21.94	22.50
		MID	Q16	21.91	21.91	22.05	22.50
		HIGH	Q16	21.72	21.61	21.89	22.50
	25	LOW	Q16	20.24	20.29	20.41	21.50
		MID	Q16	20.23	20.41	20.62	21.50
		HIGH	Q16	20.08	20.37	20.32	21.50
	50	LOW	Q16	20.17	20.20	20.32	21.50
10	1	LOW	64QAM	20.62	20.54	20.78	21.50
		MID	64QAM	20.76	21.07	21.21	21.50
		HIGH	64QAM	20.67	20.46	20.74	21.50
	25	LOW	64QAM	19.19	19.29	19.41	20.50
		MID	64QAM	19.11	19.16	19.33	20.50
		HIGH	64QAM	19.13	19.39	19.36	20.50
	50	LOW	64QAM	19.23	19.27	19.31	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	QPSK	22.14	22.11	22.34	23.50
		MID	QPSK	22.57	22.52	**22.64**	23.50
		HIGH	QPSK	22.29	22.22	22.25	23.50
	36	LOW	QPSK	21.30	21.37	21.51	22.50
		MID	QPSK	21.16	21.23	21.63	22.50
		HIGH	QPSK	21.12	21.27	21.52	22.50
	75	LOW	QPSK	21.18	21.34	21.50	22.50
15	1	LOW	Q16	21.42	21.70	21.76	22.50
		MID	Q16	21.70	21.78	21.97	22.50
		HIGH	Q16	21.52	21.65	21.93	22.50
	36	LOW	Q16	20.27	20.18	20.43	21.50
		MID	Q16	20.12	20.26	20.46	21.50
		HIGH	Q16	20.26	20.47	20.54	21.50
	75	LOW	Q16	20.35	20.33	20.40	21.50
15	1	LOW	64QAM	20.69	20.54	20.79	21.50
		MID	64QAM	20.92	20.93	21.17	21.50
		HIGH	64QAM	20.71	20.68	20.84	21.50
	36	LOW	64QAM	19.13	19.41	19.41	20.50
		MID	64QAM	19.30	19.46	19.51	20.50
		HIGH	64QAM	19.34	19.18	19.28	20.50
	75	LOW	64QAM	19.19	19.41	19.48	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	QPSK	22.16	22.16	22.27	23.50
		MID	QPSK	22.46	**22.54**	22.53	23.50
		HIGH	QPSK	22.23	22.23	22.27	23.50
	50	LOW	QPSK	21.22	21.48	21.43	22.50
		MID	QPSK	21.29	21.51	21.50	22.50
		HIGH	QPSK	21.24	21.36	21.41	22.50
	100	LOW	QPSK	21.23	21.37	21.43	22.50
20	1	LOW	Q16	21.56	21.58	21.83	22.50
		MID	Q16	21.81	21.93	**22.08**	22.50
		HIGH	Q16	21.62	21.61	21.83	22.50
	50	LOW	Q16	20.19	20.31	20.42	21.50
		MID	Q16	20.19	20.31	20.47	21.50
		HIGH	Q16	20.19	20.32	20.42	21.50
	100	LOW	Q16	20.20	20.31	20.46	21.50
20	1	LOW	64QAM	20.48	20.65	20.81	21.50
		MID	64QAM	20.69	20.85	**21.14**	21.50
		HIGH	64QAM	20.57	20.46	20.91	21.50
	50	LOW	64QAM	19.09	19.44	19.39	20.50
		MID	64QAM	19.17	19.46	19.55	20.50
		HIGH	64QAM	19.24	19.47	19.44	20.50
	100	LOW	64QAM	19.31	19.30	19.49	20.50

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Bandwidth(MHz)	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	LOW	QPSK	22.04	22.18	22.23	23.50
	MID	QPSK	22.58	22.44	**22.62**	23.50
	HIGH	QPSK	22.25	22.17	22.31	23.50
	LOW	QPSK	21.37	21.52	21.57	22.50
	MID	QPSK	21.44	21.34	21.55	22.50
	HIGH	QPSK	21.39	21.34	21.43	22.50
	LOW	QPSK	21.35	21.42	21.58	22.50
5	LOW	Q16	21.56	21.57	21.97	22.50
	MID	Q16	21.81	21.84	22.12	22.50
	HIGH	Q16	21.55	21.74	21.74	22.50
	LOW	Q16	20.18	20.46	20.28	21.50
	MID	Q16	20.18	20.25	20.49	21.50
	HIGH	Q16	20.11	20.28	20.28	21.50
	LOW	Q16	20.34	20.45	20.50	21.50
5	LOW	64QAM	20.64	20.46	20.72	21.50
	MID	64QAM	20.94	21.00	21.13	21.50
	HIGH	64QAM	20.54	20.68	20.82	21.50
	LOW	64QAM	19.17	19.20	19.47	20.50
	MID	64QAM	19.08	19.39	19.40	20.50
	HIGH	64QAM	19.09	19.41	19.31	20.50
	LOW	64QAM	19.19	19.32	19.53	20.50
Bandwidth(MHz)	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	LOW	QPSK	22.31	22.13	22.29	23.50
	MID	QPSK	22.46	**22.57**	22.39	23.50
	HIGH	QPSK	22.33	22.21	22.24	23.50
	LOW	QPSK	21.37	21.52	21.33	22.50
	MID	QPSK	21.32	21.41	21.51	22.50
	HIGH	QPSK	21.20	21.34	21.50	22.50
	LOW	QPSK	21.17	21.26	21.56	22.50
10	LOW	Q16	21.44	21.68	21.94	22.50
	MID	Q16	21.91	21.91	22.05	22.50
	HIGH	Q16	21.72	21.61	21.89	22.50
	LOW	Q16	20.24	20.29	20.41	21.50
	MID	Q16	20.23	20.41	20.62	21.50
	HIGH	Q16	20.08	20.37	20.32	21.50
	LOW	Q16	20.17	20.20	20.32	21.50
10	LOW	64QAM	20.62	20.54	20.78	21.50
	MID	64QAM	20.76	21.07	21.21	21.50
	HIGH	64QAM	20.67	20.46	20.74	21.50
	LOW	64QAM	19.19	19.29	19.41	20.50
	MID	64QAM	19.11	19.16	19.33	20.50
	HIGH	64QAM	19.13	19.39	19.36	20.50
	LOW	64QAM	19.23	19.27	19.31	20.50
Bandwidth(MHz)	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	LOW	QPSK	22.14	22.11	22.34	23.50
	MID	QPSK	22.57	22.52	**22.64**	23.50
	HIGH	QPSK	22.29	22.22	22.25	23.50
	LOW	QPSK	21.30	21.37	21.51	22.50
	MID	QPSK	21.16	21.23	21.63	22.50
	HIGH	QPSK	21.12	21.27	21.52	22.50
	LOW	QPSK	21.18	21.34	21.50	22.50
15	LOW	Q16	21.42	21.70	21.76	22.50
	MID	Q16	21.70	21.78	21.97	22.50
	HIGH	Q16	21.52	21.65	21.93	22.50
	LOW	Q16	20.27	20.18	20.43	21.50
	MID	Q16	20.12	20.26	20.46	21.50
	HIGH	Q16	20.26	20.47	20.54	21.50
	LOW	Q16	20.35	20.33	20.40	21.50
15	LOW	64QAM	20.69	20.54	20.79	21.50
	MID	64QAM	20.92	20.93	21.17	21.50
	HIGH	64QAM	20.71	20.68	20.84	21.50
	LOW	64QAM	19.13	19.41	19.41	20.50
	MID	64QAM	19.30	19.46	19.51	20.50
	HIGH	64QAM	19.34	19.18	19.28	20.50
	LOW	64QAM	19.19	19.41	19.48	20.50
Bandwidth(MHz)	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	LOW	QPSK	22.16	22.16	22.27	23.50
	MID	QPSK	22.46	**22.54**	22.53	23.50
	HIGH	QPSK	22.23	22.23	22.27	23.50
	LOW	QPSK	21.22	21.48	21.43	22.50
	MID	QPSK	21.29	21.51	21.50	22.50
	HIGH	QPSK	21.24	21.36	21.41	22.50
	LOW	QPSK	21.23	21.37	21.43	22.50
20	LOW	Q16	21.56	21.58	21.83	22.50
	MID	Q16	21.81	21.93	**22.08**	22.50
	HIGH	Q16	21.62	21.61	21.83	22.50
	LOW	Q16	20.19	20.31	20.42	21.50
	MID	Q16	20.19	20.31	20.47	21.50
	HIGH	Q16	20.19	20.32	20.42	21.50
	LOW	Q16	20.20	20.31	20.46	21.50
20	LOW	64QAM	20.48	20.65	20.81	21.50
	MID	64QAM	20.69	20.85	**21.14**	21.50
	HIGH	64QAM	20.57	20.46	20.91	21.50
	LOW	64QAM	19.09	19.44	19.39	20.50
	MID	64QAM	19.17	19.46	19.55	20.50
	HIGH	64QAM	19.24	19.47	19.44	20.50
	LOW	64QAM	19.31	19.30	19.49	20.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	QPSK	22.04	22.18	22.23	23.50
		MID	QPSK	22.58	22.44	**22.62**	23.50
		HIGH	QPSK	22.25	22.17	22.31	23.50
	12	LOW	QPSK	21.37	21.52	21.57	22.50
		MID	QPSK	21.44	21.34	21.55	22.50
		HIGH	QPSK	21.39	21.34	21.43	22.50
	25	LOW	QPSK	21.35	21.42	21.58	22.50
5	1	LOW	Q16	21.56	21.57	21.97	22.50
		MID	Q16	21.81	21.84	22.12	22.50
		HIGH	Q16	21.55	21.74	21.74	22.50
	12	LOW	Q16	20.18	20.46	20.28	21.50
		MID	Q16	20.18	20.25	20.49	21.50
		HIGH	Q16	20.11	20.28	20.28	21.50
	25	LOW	Q16	20.34	20.45	20.50	21.50
5	1	LOW	64QAM	20.64	20.46	20.72	21.50
		MID	64QAM	20.94	21.00	21.13	21.50
		HIGH	64QAM	20.54	20.68	20.82	21.50
	12	LOW	64QAM	19.17	19.20	19.47	20.50
		MID	64QAM	19.08	19.39	19.40	20.50
		HIGH	64QAM	19.09	19.41	19.31	20.50
	25	LOW	64QAM	19.19	19.32	19.53	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	QPSK	22.31	22.13	22.29	23.50
		MID	QPSK	22.46	**22.57**	22.39	23.50
		HIGH	QPSK	22.33	22.21	22.24	23.50
	25	LOW	QPSK	21.37	21.52	21.33	22.50
		MID	QPSK	21.32	21.41	21.51	22.50
		HIGH	QPSK	21.20	21.34	21.50	22.50
	50	LOW	QPSK	21.17	21.26	21.56	22.50
10	1	LOW	Q16	21.44	21.68	21.94	22.50
		MID	Q16	21.91	21.91	22.05	22.50
		HIGH	Q16	21.72	21.61	21.89	22.50
	25	LOW	Q16	20.24	20.29	20.41	21.50
		MID	Q16	20.23	20.41	20.62	21.50
		HIGH	Q16	20.08	20.37	20.32	21.50
	50	LOW	Q16	20.17	20.20	20.32	21.50
10	1	LOW	64QAM	20.62	20.54	20.78	21.50
		MID	64QAM	20.76	21.07	21.21	21.50
		HIGH	64QAM	20.67	20.46	20.74	21.50
	25	LOW	64QAM	19.19	19.29	19.41	20.50
		MID	64QAM	19.11	19.16	19.33	20.50
		HIGH	64QAM	19.13	19.39	19.36	20.50
	50	LOW	64QAM	19.23	19.27	19.31	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	QPSK	22.14	22.11	22.34	23.50
		MID	QPSK	22.57	22.52	**22.64**	23.50
		HIGH	QPSK	22.29	22.22	22.25	23.50
	36	LOW	QPSK	21.30	21.37	21.51	22.50
		MID	QPSK	21.16	21.23	21.63	22.50
		HIGH	QPSK	21.12	21.27	21.52	22.50
	75	LOW	QPSK	21.18	21.34	21.50	22.50
15	1	LOW	Q16	21.42	21.70	21.76	22.50
		MID	Q16	21.70	21.78	21.97	22.50
		HIGH	Q16	21.52	21.65	21.93	22.50
	36	LOW	Q16	20.27	20.18	20.43	21.50
		MID	Q16	20.12	20.26	20.46	21.50
		HIGH	Q16	20.26	20.47	20.54	21.50
	75	LOW	Q16	20.35	20.33	20.40	21.50
15	1	LOW	64QAM	20.69	20.54	20.79	21.50
		MID	64QAM	20.92	20.93	21.17	21.50
		HIGH	64QAM	20.71	20.68	20.84	21.50
	36	LOW	64QAM	19.13	19.41	19.41	20.50
		MID	64QAM	19.30	19.46	19.51	20.50
		HIGH	64QAM	19.34	19.18	19.28	20.50
	75	LOW	64QAM	19.19	19.41	19.48	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	QPSK	22.16	22.16	22.27	23.50
		MID	QPSK	22.46	**22.54**	22.53	23.50
		HIGH	QPSK	22.23	22.23	22.27	23.50
	50	LOW	QPSK	21.22	21.48	21.43	22.50
		MID	QPSK	21.29	21.51	21.50	22.50
		HIGH	QPSK	21.24	21.36	21.41	22.50
	100	LOW	QPSK	21.23	21.37	21.43	22.50
20	1	LOW	Q16	21.56	21.58	21.83	22.50
		MID	Q16	21.81	21.93	**22.08**	22.50
		HIGH	Q16	21.62	21.61	21.83	22.50
	50	LOW	Q16	20.19	20.31	20.42	21.50
		MID	Q16	20.19	20.31	20.47	21.50
		HIGH	Q16	20.19	20.32	20.42	21.50
	100	LOW	Q16	20.20	20.31	20.46	21.50
20	1	LOW	64QAM	20.48	20.65	20.81	21.50
		MID	64QAM	20.69	20.85	**21.14**	21.50
		HIGH	64QAM	20.57	20.46	20.91	21.50
	50	LOW	64QAM	19.09	19.44	19.39	20.50
		MID	64QAM	19.17	19.46	19.55	20.50
		HIGH	64QAM	19.24	19.47	19.44	20.50
	100	LOW	64QAM	19.31	19.30	19.49	20.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	QPSK	20.83	20.99	20.97	22.00
		MID	QPSK	21.21	21.14	21.03	22.00
		HIGH	QPSK	20.71	20.82	20.98	22.00
	12	LOW	QPSK	20.84	21.08	21.08	22.00
		MID	QPSK	20.89	21.18	21.08	22.00
		HIGH	QPSK	20.83	20.93	21.12	22.00
	25	LOW	QPSK	20.92	20.88	21.09	22.00
5	1	LOW	Q16	21.30	21.46	21.44	22.00
		MID	Q16	21.24	21.19	21.25	22.00
		HIGH	Q16	20.37	20.54	20.29	22.00
	12	LOW	Q16	20.46	20.33	20.38	21.50
		MID	Q16	20.39	20.47	20.36	21.50
		HIGH	Q16	20.38	20.40	20.56	21.50
	25	LOW	Q16	20.52	20.58	20.75	21.50
5	1	LOW	64QAM	20.92	20.98	21.15	21.50
		MID	64QAM	20.77	20.90	20.80	21.50
		HIGH	64QAM	20.32	20.28	20.25	21.50
	12	LOW	64QAM	19.35	19.27	19.25	20.50
		MID	64QAM	19.21	19.58	19.60	20.50
		HIGH	64QAM	19.36	19.43	19.50	20.50
	25	LOW	64QAM	19.20	19.29	19.49	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	QPSK	20.86	21.04	20.86	22.00
		MID	QPSK	21.14	21.37	21.09	22.00
		HIGH	QPSK	20.76	20.99	21.15	22.00
	25	LOW	QPSK	20.76	20.91	21.06	22.00
		MID	QPSK	20.99	21.07	21.03	22.00
		HIGH	QPSK	20.73	21.12	20.89	22.00
	50	LOW	QPSK	20.86	21.06	21.21	22.00
10	1	LOW	Q16	21.10	21.38	21.30	22.00
		MID	Q16	21.32	21.51	21.38	22.00
		HIGH	Q16	21.19	21.39	21.20	22.00
	25	LOW	Q16	20.23	20.55	20.33	21.50
		MID	Q16	20.28	20.29	20.55	21.50
		HIGH	Q16	20.32	20.57	20.36	21.50
	50	LOW	Q16	20.21	20.52	20.43	21.50
10	1	LOW	64QAM	20.65	20.70	20.70	21.50
		MID	64QAM	21.01	20.98	20.87	21.50
		HIGH	64QAM	20.70	20.73	20.76	21.50
	25	LOW	64QAM	19.14	19.35	19.34	20.50
		MID	64QAM	19.42	19.32	19.36	20.50
		HIGH	64QAM	19.35	19.36	19.45	20.50
	50	LOW	64QAM	19.27	19.53	19.48	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	QPSK	20.76	20.80	20.80	22.00
		MID	QPSK	21.06	21.31	21.30	22.00
		HIGH	QPSK	20.71	20.84	20.94	22.00
	36	LOW	QPSK	20.92	21.00	20.97	22.00
		MID	QPSK	21.02	21.15	21.28	22.00
		HIGH	QPSK	20.96	21.07	21.13	22.00
	75	LOW	QPSK	21.02	21.05	21.18	22.00
15	1	LOW	Q16	21.04	21.20	21.15	22.00
		MID	Q16	21.40	21.46	21.41	22.00
		HIGH	Q16	21.16	21.25	21.34	22.00
	36	LOW	Q16	20.19	20.46	20.46	21.50
		MID	Q16	20.24	20.50	20.35	21.50
		HIGH	Q16	20.34	20.51	20.48	21.50
	75	LOW	Q16	20.43	20.48	20.48	21.50
15	1	LOW	64QAM	20.65	20.65	20.77	21.50
		MID	64QAM	20.82	20.99	21.13	21.50
		HIGH	64QAM	20.82	20.84	20.77	21.50
	36	LOW	64QAM	19.20	19.46	19.47	20.50
		MID	64QAM	19.38	19.40	19.64	20.50
		HIGH	64QAM	19.19	19.51	19.51	20.50
	75	LOW	64QAM	19.32	19.31	19.39	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	QPSK	20.82	20.91	20.95	22.00
		MID	QPSK	21.13	**21.23**	21.16	22.00
		HIGH	QPSK	20.83	20.95	21.01	22.00
	50	LOW	QPSK	20.87	20.99	21.05	22.00
		MID	QPSK	20.95	21.14	21.10	22.00
		HIGH	QPSK	20.88	21.05	21.01	22.00
	100	LOW	QPSK	20.92	21.02	21.11	22.00
20	1	LOW	Q16	21.17	21.25	21.24	22.00
		MID	Q16	21.47	**21.51**	21.50	22.00
		HIGH	Q16	21.22	21.27	21.32	22.00
	50	LOW	Q16	20.24	20.40	20.40	21.50
		MID	Q16	20.32	20.43	20.50	21.50
		HIGH	Q16	20.28	20.46	20.42	21.50
	100	LOW	Q16	20.31	20.40	20.48	21.50
20	1	LOW	64QAM	**20.70**	20.58	20.68	21.50
		MID	64QAM	20.26	20.26	20.28	21.50
		HIGH	64QAM	20.16	20.02	20.14	21.50
	50	LOW	64QAM	19.26	19.42	19.34	20.50
		MID	64QAM	19.19	19.41	19.45	20.50
		HIGH	64QAM	19.39	19.33	19.35	20.50
	100	LOW	64QAM	19.23	19.38	19.37	20.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	QPSK	20.83	20.99	20.97	22.00
		MID	QPSK	21.21	21.14	21.03	22.00
		HIGH	QPSK	20.71	20.82	20.98	22.00
	12	LOW	QPSK	20.84	21.08	21.08	22.00
		MID	QPSK	20.89	21.18	21.08	22.00
		HIGH	QPSK	20.83	20.93	21.12	22.00
	25	LOW	QPSK	20.92	20.88	21.09	22.00
5	1	LOW	Q16	21.30	21.46	21.44	22.00
		MID	Q16	21.24	21.19	21.25	22.00
		HIGH	Q16	20.37	20.54	20.29	22.00
	12	LOW	Q16	20.46	20.33	20.38	21.50
		MID	Q16	20.39	20.47	20.36	21.50
		HIGH	Q16	20.38	20.40	20.56	21.50
	25	LOW	Q16	20.52	20.58	20.75	21.50
5	1	LOW	64QAM	20.92	20.98	21.15	21.50
		MID	64QAM	20.77	20.90	20.80	21.50
		HIGH	64QAM	20.32	20.28	20.25	21.50
	12	LOW	64QAM	19.35	19.27	19.25	20.50
		MID	64QAM	19.21	19.58	19.60	20.50
		HIGH	64QAM	19.36	19.43	19.50	20.50
	25	LOW	64QAM	19.20	19.29	19.49	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	QPSK	20.86	21.04	20.86	22.00
		MID	QPSK	21.14	21.37	21.09	22.00
		HIGH	QPSK	20.76	20.99	21.15	22.00
	25	LOW	QPSK	20.76	20.91	21.06	22.00
		MID	QPSK	20.99	21.07	21.03	22.00
		HIGH	QPSK	20.73	21.12	20.89	22.00
	50	LOW	QPSK	20.86	21.06	21.21	22.00
10	1	LOW	Q16	21.10	21.38	21.30	22.00
		MID	Q16	21.32	21.51	21.38	22.00
		HIGH	Q16	21.19	21.39	21.20	22.00
	25	LOW	Q16	20.23	20.55	20.33	21.50
		MID	Q16	20.28	20.29	20.55	21.50
		HIGH	Q16	20.32	20.57	20.36	21.50
	50	LOW	Q16	20.21	20.52	20.43	21.50
10	1	LOW	64QAM	20.65	20.70	20.70	21.50
		MID	64QAM	21.01	20.98	20.87	21.50
		HIGH	64QAM	20.70	20.73	20.76	21.50
	25	LOW	64QAM	19.14	19.35	19.34	20.50
		MID	64QAM	19.42	19.32	19.36	20.50
		HIGH	64QAM	19.35	19.36	19.45	20.50
	50	LOW	64QAM	19.27	19.53	19.48	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	QPSK	20.76	20.80	20.80	22.00
		MID	QPSK	21.06	21.31	21.30	22.00
		HIGH	QPSK	20.71	20.84	20.94	22.00
	36	LOW	QPSK	20.92	21.00	20.97	22.00
		MID	QPSK	21.02	21.15	21.28	22.00
		HIGH	QPSK	20.96	21.07	21.13	22.00
	75	LOW	QPSK	21.02	21.05	21.18	22.00
15	1	LOW	Q16	21.04	21.20	21.15	22.00
		MID	Q16	21.40	21.46	21.41	22.00
		HIGH	Q16	21.16	21.25	21.34	22.00
	36	LOW	Q16	20.19	20.46	20.46	21.50
		MID	Q16	20.24	20.50	20.35	21.50
		HIGH	Q16	20.34	20.51	20.48	21.50
	75	LOW	Q16	20.43	20.48	20.48	21.50
15	1	LOW	64QAM	20.65	20.65	20.77	21.50
		MID	64QAM	20.82	20.99	21.13	21.50
		HIGH	64QAM	20.82	20.84	20.77	21.50
	36	LOW	64QAM	19.20	19.46	19.47	20.50
		MID	64QAM	19.38	19.40	19.64	20.50
		HIGH	64QAM	19.19	19.51	19.51	20.50
	75	LOW	64QAM	19.32	19.31	19.39	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	QPSK	20.82	20.91	20.95	22.00
		MID	QPSK	21.13	**21.23**	21.16	22.00
		HIGH	QPSK	20.83	20.95	21.01	22.00
	50	LOW	QPSK	20.87	20.99	21.05	22.00
		MID	QPSK	20.95	21.14	21.10	22.00
		HIGH	QPSK	20.88	21.05	21.01	22.00
	100	LOW	QPSK	20.92	21.02	21.11	22.00
20	1	LOW	Q16	21.17	21.25	21.24	22.00
		MID	Q16	21.47	**21.51**	21.50	22.00
		HIGH	Q16	21.22	21.27	21.32	22.00
	50	LOW	Q16	20.24	20.40	20.40	21.50
		MID	Q16	20.32	20.43	20.50	21.50
		HIGH	Q16	20.28	20.46	20.42	21.50
	100	LOW	Q16	20.31	20.40	20.48	21.50
20	1	LOW	64QAM	**20.70**	20.58	20.68	21.50
		MID	64QAM	20.26	20.26	20.28	21.50
		HIGH	64QAM	20.16	20.02	20.14	21.50
	50	LOW	64QAM	19.26	19.42	19.34	20.50
		MID	64QAM	19.19	19.41	19.45	20.50
		HIGH	64QAM	19.39	19.33	19.35	20.50
	100	LOW	64QAM	19.23	19.38	19.37	20.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	QPSK	20.83	20.99	20.97	22.00
		MID	QPSK	21.21	21.14	21.03	22.00
		HIGH	QPSK	20.71	20.82	20.98	22.00
	12	LOW	QPSK	20.84	21.08	21.08	22.00
		MID	QPSK	20.89	21.18	21.08	22.00
		HIGH	QPSK	20.83	20.93	21.12	22.00
	25	LOW	QPSK	20.92	20.88	21.09	22.00
5	1	LOW	Q16	21.30	21.46	21.44	22.00
		MID	Q16	21.24	21.19	21.25	22.00
		HIGH	Q16	20.37	20.54	20.29	22.00
	12	LOW	Q16	20.46	20.33	20.38	21.50
		MID	Q16	20.39	20.47	20.36	21.50
		HIGH	Q16	20.38	20.40	20.56	21.50
	25	LOW	Q16	20.52	20.58	20.75	21.50
5	1	LOW	64QAM	20.92	20.98	21.15	21.50
		MID	64QAM	20.77	20.90	20.80	21.50
		HIGH	64QAM	20.32	20.28	20.25	21.50
	12	LOW	64QAM	19.35	19.27	19.25	20.50
		MID	64QAM	19.21	19.58	19.60	20.50
		HIGH	64QAM	19.36	19.43	19.50	20.50
	25	LOW	64QAM	19.20	19.29	19.49	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	QPSK	20.86	21.04	20.86	22.00
		MID	QPSK	21.14	21.37	21.09	22.00
		HIGH	QPSK	20.76	20.99	21.15	22.00
	25	LOW	QPSK	20.76	20.91	21.06	22.00
		MID	QPSK	20.99	21.07	21.03	22.00
		HIGH	QPSK	20.73	21.12	20.89	22.00
	50	LOW	QPSK	20.86	21.06	21.21	22.00
10	1	LOW	Q16	21.10	21.38	21.30	22.00
		MID	Q16	21.32	21.51	21.38	22.00
		HIGH	Q16	21.19	21.39	21.20	22.00
	25	LOW	Q16	20.23	20.55	20.33	21.50
		MID	Q16	20.28	20.29	20.55	21.50
		HIGH	Q16	20.32	20.57	20.36	21.50
	50	LOW	Q16	20.21	20.52	20.43	21.50
10	1	LOW	64QAM	20.65	20.70	20.70	21.50
		MID	64QAM	21.01	20.98	20.87	21.50
		HIGH	64QAM	20.70	20.73	20.76	21.50
	25	LOW	64QAM	19.14	19.35	19.34	20.50
		MID	64QAM	19.42	19.32	19.36	20.50
		HIGH	64QAM	19.35	19.36	19.45	20.50
	50	LOW	64QAM	19.27	19.53	19.48	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	QPSK	20.76	20.80	20.80	22.00
		MID	QPSK	21.06	21.31	21.30	22.00
		HIGH	QPSK	20.71	20.84	20.94	22.00
	36	LOW	QPSK	20.92	21.00	20.97	22.00
		MID	QPSK	21.02	21.15	21.28	22.00
		HIGH	QPSK	20.96	21.07	21.13	22.00
	75	LOW	QPSK	21.02	21.05	21.18	22.00
15	1	LOW	Q16	21.04	21.20	21.15	22.00
		MID	Q16	21.40	21.46	21.41	22.00
		HIGH	Q16	21.16	21.25	21.34	22.00
	36	LOW	Q16	20.19	20.46	20.46	21.50
		MID	Q16	20.24	20.50	20.35	21.50
		HIGH	Q16	20.34	20.51	20.48	21.50
	75	LOW	Q16	20.43	20.48	20.48	21.50
15	1	LOW	64QAM	20.65	20.65	20.77	21.50
		MID	64QAM	20.82	20.99	21.13	21.50
		HIGH	64QAM	20.82	20.84	20.77	21.50
	36	LOW	64QAM	19.20	19.46	19.47	20.50
		MID	64QAM	19.38	19.40	19.64	20.50
		HIGH	64QAM	19.19	19.51	19.51	20.50
	75	LOW	64QAM	19.32	19.31	19.39	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	QPSK	20.82	20.91	20.95	22.00
		MID	QPSK	21.13	**21.23**	21.16	22.00
		HIGH	QPSK	20.83	20.95	21.01	22.00
	50	LOW	QPSK	20.87	20.99	21.05	22.00
		MID	QPSK	20.95	21.14	21.10	22.00
		HIGH	QPSK	20.88	21.05	21.01	22.00
	100	LOW	QPSK	20.92	21.02	21.11	22.00
20	1	LOW	Q16	21.17	21.25	21.24	22.00
		MID	Q16	21.47	**21.51**	21.50	22.00
		HIGH	Q16	21.22	21.27	21.32	22.00
	50	LOW	Q16	20.24	20.40	20.40	21.50
		MID	Q16	20.32	20.43	20.50	21.50
		HIGH	Q16	20.28	20.46	20.42	21.50
	100	LOW	Q16	20.31	20.40	20.48	21.50
20	1	LOW	64QAM	**20.70**	20.58	20.68	21.50
		MID	64QAM	20.26	20.26	20.28	21.50
		HIGH	64QAM	20.16	20.02	20.14	21.50
	50	LOW	64QAM	19.26	19.42	19.34	20.50
		MID	64QAM	19.19	19.41	19.45	20.50
		HIGH	64QAM	19.39	19.33	19.35	20.50
	100	LOW	64QAM	19.23	19.38	19.37	20.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	QPSK	20.83	20.99	20.97	22.00
		MID	QPSK	21.21	21.14	21.03	22.00
		HIGH	QPSK	20.71	20.82	20.98	22.00
	12	LOW	QPSK	20.84	21.08	21.08	22.00
		MID	QPSK	20.89	21.18	21.08	22.00
		HIGH	QPSK	20.83	20.93	21.12	22.00
	25	LOW	QPSK	20.92	20.88	21.09	22.00
5	1	LOW	Q16	21.30	21.46	21.44	22.00
		MID	Q16	21.24	21.19	21.25	22.00
		HIGH	Q16	20.37	20.54	20.29	22.00
	12	LOW	Q16	20.46	20.33	20.38	21.50
		MID	Q16	20.39	20.47	20.36	21.50
		HIGH	Q16	20.38	20.40	20.56	21.50
	25	LOW	Q16	20.52	20.58	20.75	21.50
5	1	LOW	64QAM	20.92	20.98	21.15	21.50
		MID	64QAM	20.77	20.90	20.80	21.50
		HIGH	64QAM	20.32	20.28	20.25	21.50
	12	LOW	64QAM	19.35	19.27	19.25	20.50
		MID	64QAM	19.21	19.58	19.60	20.50
		HIGH	64QAM	19.36	19.43	19.50	20.50
	25	LOW	64QAM	19.20	19.29	19.49	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	QPSK	20.86	21.04	20.86	22.00
		MID	QPSK	21.14	21.37	21.09	22.00
		HIGH	QPSK	20.76	20.99	21.15	22.00
	25	LOW	QPSK	20.76	20.91	21.06	22.00
		MID	QPSK	20.99	21.07	21.03	22.00
		HIGH	QPSK	20.73	21.12	20.89	22.00
	50	LOW	QPSK	20.86	21.06	21.21	22.00
10	1	LOW	Q16	21.10	21.38	21.30	22.00
		MID	Q16	21.32	21.51	21.38	22.00
		HIGH	Q16	21.19	21.39	21.20	22.00
	25	LOW	Q16	20.23	20.55	20.33	21.50
		MID	Q16	20.28	20.29	20.55	21.50
		HIGH	Q16	20.32	20.57	20.36	21.50
	50	LOW	Q16	20.21	20.52	20.43	21.50
10	1	LOW	64QAM	20.65	20.70	20.70	21.50
		MID	64QAM	21.01	20.98	20.87	21.50
		HIGH	64QAM	20.70	20.73	20.76	21.50
	25	LOW	64QAM	19.14	19.35	19.34	20.50
		MID	64QAM	19.42	19.32	19.36	20.50
		HIGH	64QAM	19.35	19.36	19.45	20.50
	50	LOW	64QAM	19.27	19.53	19.48	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	QPSK	20.76	20.80	20.80	22.00
		MID	QPSK	21.06	21.31	21.30	22.00
		HIGH	QPSK	20.71	20.84	20.94	22.00
	36	LOW	QPSK	20.92	21.00	20.97	22.00
		MID	QPSK	21.02	21.15	21.28	22.00
		HIGH	QPSK	20.96	21.07	21.13	22.00
	75	LOW	QPSK	21.02	21.05	21.18	22.00
15	1	LOW	Q16	21.04	21.20	21.15	22.00
		MID	Q16	21.40	21.46	21.41	22.00
		HIGH	Q16	21.16	21.25	21.34	22.00
	36	LOW	Q16	20.19	20.46	20.46	21.50
		MID	Q16	20.24	20.50	20.35	21.50
		HIGH	Q16	20.34	20.51	20.48	21.50
	75	LOW	Q16	20.43	20.48	20.48	21.50
15	1	LOW	64QAM	20.65	20.65	20.77	21.50
		MID	64QAM	20.82	20.99	21.13	21.50
		HIGH	64QAM	20.82	20.84	20.77	21.50
	36	LOW	64QAM	19.20	19.46	19.47	20.50
		MID	64QAM	19.38	19.40	19.64	20.50
		HIGH	64QAM	19.19	19.51	19.51	20.50
	75	LOW	64QAM	19.32	19.31	19.39	20.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	QPSK	20.82	20.91	20.95	22.00
		MID	QPSK	21.13	**21.23**	21.16	22.00
		HIGH	QPSK	20.83	20.95	21.01	22.00
	50	LOW	QPSK	20.87	20.99	21.05	22.00
		MID	QPSK	20.95	21.14	21.10	22.00
		HIGH	QPSK	20.88	21.05	21.01	22.00
	100	LOW	QPSK	20.92	21.02	21.11	22.00
20	1	LOW	Q16	21.17	21.25	21.24	22.00
		MID	Q16	21.47	**21.51**	21.50	22.00
		HIGH	Q16	21.22	21.27	21.32	22.00
	50	LOW	Q16	20.24	20.40	20.40	21.50
		MID	Q16	20.32	20.43	20.50	21.50
		HIGH	Q16	20.28	20.46	20.42	21.50
	100	LOW	Q16	20.31	20.40	20.48	21.50
20	1	LOW	64QAM	**20.70**	20.58	20.68	21.50
		MID	64QAM	20.26	20.26	20.28	21.50
		HIGH	64QAM	20.16	20.02	20.14	21.50
	50	LOW	64QAM	19.26	19.42	19.34	20.50
		MID	64QAM	19.19	19.41	19.45	20.50
		HIGH	64QAM	19.39	19.33	19.35	20.50
	100	LOW	64QAM	19.23	19.38	19.37	20.50

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Bandwidth (MHz)	RB Size	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.46	23.46	23.41	24.50
		MID	QPSK	**23.71**	23.65	23.68	24.50
		HIGH	QPSK	23.47	23.42	23.44	24.50
	3	LOW	QPSK	23.58	23.53	23.57	24.50
		MID	QPSK	23.60	23.59	23.62	24.50
		HIGH	QPSK	23.55	23.53	23.58	24.50
	6	LOW	QPSK	22.55	22.54	22.51	23.50
1.4	1	LOW	Q16	22.58	22.82	22.38	23.50
		MID	Q16	22.77	22.98	22.67	23.50
		HIGH	Q16	22.60	22.79	22.45	23.50
	3	LOW	Q16	22.59	22.71	22.70	23.50
		MID	Q16	22.59	22.72	22.74	23.50
		HIGH	Q16	22.58	22.70	22.70	23.50
	6	LOW	Q16	21.67	21.43	21.64	22.50
1.4	1	LOW	64QAM	21.59	21.95	21.46	22.50
		MID	64QAM	21.68	22.03	21.55	22.50
		HIGH	64QAM	21.57	21.76	21.53	22.50
	3	LOW	64QAM	21.61	21.66	21.82	22.50
		MID	64QAM	21.47	21.65	21.68	22.50
		HIGH	64QAM	21.73	21.85	21.66	22.50
	6	LOW	64QAM	20.59	20.29	20.69	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	QPSK	23.51	23.47	23.52	24.50
		MID	QPSK	23.49	**23.56**	23.53	24.50
		HIGH	QPSK	23.39	23.50	**23.56**	24.50
	8	LOW	QPSK	22.44	22.56	22.38	23.50
		MID	QPSK	22.51	22.43	22.41	23.50
		HIGH	QPSK	22.65	22.41	22.34	23.50
	15	LOW	QPSK	22.54	22.40	22.65	23.50
3	1	LOW	Q16	22.37	22.71	22.58	23.50
		MID	Q16	22.70	23.08	22.52	23.50
		HIGH	Q16	22.39	22.83	22.57	23.50
	8	LOW	Q16	21.26	21.63	21.52	22.50
		MID	Q16	21.66	21.50	21.67	22.50
		HIGH	Q16	21.61	21.49	21.53	22.50
	15	LOW	Q16	21.59	21.41	21.60	22.50
3	1	LOW	64QAM	21.42	21.66	21.37	22.50
		MID	64QAM	21.55	21.82	21.69	22.50
		HIGH	64QAM	21.56	21.94	21.50	22.50
	8	LOW	64QAM	21.27	21.37	21.50	22.50
		MID	64QAM	21.69	21.60	21.66	22.50
		HIGH	64QAM	21.51	21.37	21.61	22.50
	15	LOW	64QAM	20.51	20.56	20.58	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	QPSK	23.35	23.40	23.41	24.50
		MID	QPSK	23.71	23.55	**23.74**	24.50
		HIGH	QPSK	23.54	23.55	23.52	24.50
	12	LOW	QPSK	22.28	22.40	22.51	23.50
		MID	QPSK	22.47	22.46	22.55	23.50
		HIGH	QPSK	22.42	22.36	22.41	23.50
	25	LOW	QPSK	22.49	22.43	22.63	23.50
5	1	LOW	Q16	22.44	22.88	22.56	23.50
		MID	Q16	22.49	22.86	22.51	23.50
		HIGH	Q16	22.39	22.75	22.61	23.50
	12	LOW	Q16	21.37	21.58	21.69	22.50
		MID	Q16	21.65	21.53	21.66	22.50
		HIGH	Q16	21.68	21.48	21.73	22.50
	25	LOW	Q16	21.36	21.62	21.49	22.50
5	1	LOW	64QAM	21.27	21.70	21.41	22.50
		MID	64QAM	21.67	21.89	21.77	22.50
		HIGH	64QAM	21.41	21.82	21.34	22.50
	12	LOW	64QAM	20.32	20.63	20.59	21.50
		MID	64QAM	20.55	20.50	20.71	21.50
		HIGH	64QAM	20.65	20.46	20.50	21.50
	25	LOW	64QAM	20.35	20.46	20.51	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	QPSK	23.46	23.46	23.47	24.50
		MID	QPSK	**23.69**	23.65	23.60	24.50
		HIGH	QPSK	23.49	23.50	23.50	24.50
	25	LOW	QPSK	22.38	22.46	22.53	23.50
		MID	QPSK	22.54	22.54	22.52	23.50
		HIGH	QPSK	22.52	22.46	22.46	23.50
	50	LOW	QPSK	22.51	22.53	22.53	23.50
10	1	LOW	Q16	22.41	22.79	22.45	23.50
		MID	Q16	22.55	**22.95**	22.63	23.50
		HIGH	Q16	22.42	22.85	22.46	23.50
	25	LOW	Q16	21.38	21.51	21.62	22.50
		MID	Q16	21.55	21.55	21.61	22.50
		HIGH	Q16	21.53	21.50	21.61	22.50
	50	LOW	Q16	21.48	21.54	21.55	22.50
10	1	LOW	64QAM	21.54	21.75	21.36	22.50
		MID	64QAM	21.46	**21.90**	21.65	22.50
		HIGH	64QAM	21.51	21.73	21.37	22.50
	25	LOW	64QAM	20.38	20.41	20.65	21.50
		MID	64QAM	20.61	20.44	20.55	21.50
		HIGH	64QAM	20.65	20.35	20.76	21.50
	50	LOW	64QAM	20.63	20.42	20.62	21.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	22.25	22.28	22.17	23.50
		MID	3	QPSK	22.53	22.39	22.43	23.50
		HIGH	5	QPSK	22.34	22.20	22.35	23.50
	3	LOW	0	QPSK	22.47	22.46	22.39	23.50
		MID	1	QPSK	22.41	22.38	22.44	23.50
		HIGH	3	QPSK	22.44	22.26	22.45	23.50
	6	LOW	0	QPSK	22.28	22.32	22.37	23.50
1.4	1	LOW	0	Q16	22.51	22.65	22.16	23.50
		MID	3	Q16	22.62	22.73	22.55	23.50
		HIGH	5	Q16	22.48	22.70	22.19	23.50
	3	LOW	0	Q16	22.40	22.42	22.60	23.50
		MID	1	Q16	22.29	22.51	22.48	23.50
		HIGH	3	Q16	22.51	22.50	22.45	23.50
	6	LOW	0	Q16	21.55	21.23	21.40	22.50
1.4	1	LOW	0	64QAM	21.40	21.72	21.33	22.50
		MID	12	64QAM	21.57	21.78	21.29	22.50
		HIGH	24	64QAM	21.42	21.57	21.39	22.50
	3	LOW	0	64QAM	21.38	21.58	21.62	22.50
		MID	7	64QAM	21.41	21.53	21.47	22.50
		HIGH	13	64QAM	21.56	21.75	21.54	22.50
	6	LOW	0	64QAM	20.38	20.13	20.42	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	0	QPSK	22.29	22.30	22.24	23.50
		MID	25	QPSK	22.22	22.37	22.41	23.50
		HIGH	49	QPSK	22.26	22.32	22.45	23.50
	8	LOW	0	QPSK	22.16	22.39	22.19	23.50
		MID	12	QPSK	22.32	22.14	22.35	23.50
		HIGH	25	QPSK	22.57	22.26	22.13	23.50
	15	LOW	0	QPSK	22.31	22.14	22.34	23.50
3	1	LOW	0	Q16	22.11	22.53	22.42	23.50
		MID	25	Q16	22.63	22.82	22.27	23.50
		HIGH	49	Q16	22.30	22.69	22.35	23.50
	8	LOW	0	Q16	20.98	21.52	21.21	22.50
		MID	12	Q16	21.45	21.24	21.53	22.50
		HIGH	25	Q16	21.31	21.25	21.37	22.50
	15	LOW	0	Q16	21.34	21.24	21.47	22.50
3	1	LOW	0	64QAM	21.33	21.41	21.22	22.50
		MID	25	64QAM	21.32	21.55	21.56	22.50
		HIGH	49	64QAM	21.45	21.69	21.40	22.50
	8	LOW	0	64QAM	21.05	21.20	21.38	21.50
		MID	12	64QAM	21.40	21.44	21.38	21.50
		HIGH	25	64QAM	21.38	21.21	21.44	21.50
	15	LOW	0	64QAM	20.28	20.36	20.28	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	0	QPSK	22.08	22.25	22.20	23.50
		MID	12	QPSK	22.52	22.47	22.43	23.50
		HIGH	24	QPSK	22.30	22.40	22.38	23.50
	12	LOW	0	QPSK	22.17	22.30	22.40	23.50
		MID	7	QPSK	22.24	22.27	22.35	23.50
		HIGH	13	QPSK	22.14	22.28	22.32	23.50
	25	LOW	0	QPSK	22.40	22.19	22.46	23.50
5	1	LOW	0	Q16	22.30	22.71	22.32	23.50
		MID	12	Q16	22.27	22.75	22.38	23.50
		HIGH	24	Q16	22.24	22.46	22.35	23.50
	12	LOW	0	Q16	21.30	21.35	21.42	22.50
		MID	7	Q16	21.36	21.23	21.35	22.50
		HIGH	13	Q16	21.53	21.34	21.44	22.50
	25	LOW	0	Q16	21.17	21.46	21.18	22.50
5	1	LOW	0	64QAM	21.06	21.63	21.10	22.50
		MID	12	64QAM	21.38	21.77	21.61	22.50
		HIGH	24	64QAM	21.12	21.76	21.10	22.50
	12	LOW	0	64QAM	20.08	20.40	20.45	21.50
		MID	7	64QAM	20.33	20.33	20.46	21.50
		HIGH	13	64QAM	20.41	20.25	20.30	21.50
	25	LOW	0	64QAM	20.05	20.34	20.36	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	0	QPSK	22.37	22.26	22.20	23.50
		MID	25	QPSK	22.40	22.38	22.39	23.50
		HIGH	49	QPSK	22.19	22.29	22.38	23.50
	25	LOW	0	QPSK	22.21	22.31	22.27	23.50
		MID	12	QPSK	**22.42**	22.38	22.35	23.50
		HIGH	25	QPSK	22.24	22.24	22.18	23.50
	50	LOW	0	QPSK	22.34	22.32	22.37	23.50
10	1	LOW	0	Q16	22.24	22.51	22.30	23.50
		MID	25	Q16	22.27	**22.67**	22.45	23.50
		HIGH	49	Q16	22.14	22.62	22.21	23.50
	25	LOW	0	Q16	21.20	21.23	21.46	22.50
		MID	12	Q16	21.48	21.31	21.36	22.50
		HIGH	25	Q16	21.45	21.25	21.39	22.50
	50	LOW	0	Q16	21.40	21.26	21.44	22.50
10	1	LOW	0	64QAM	21.34	21.53	21.28	22.50
		MID	25	64QAM	21.40	**21.68**	21.53	22.50
		HIGH	49	64QAM	21.40	21.66	21.21	22.50
	25	LOW	0	64QAM	20.18	20.22	20.42	21.50
		MID	12	64QAM	20.37	20.13	20.25	21.50
		HIGH	25	64QAM	20.59	20.24	20.59	21.50
	50	LOW	0	64QAM	20.37	20.11	20.37	21.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	22.25	22.28	22.17	23.50
		MID	3	QPSK	22.53	22.39	22.43	23.50
		HIGH	5	QPSK	22.34	22.20	22.35	23.50
	3	LOW	0	QPSK	22.47	22.46	22.39	23.50
		MID	1	QPSK	22.41	22.38	22.44	23.50
		HIGH	3	QPSK	22.44	22.26	22.45	23.50
	6	LOW	0	QPSK	22.28	22.32	22.37	23.50
1.4	1	LOW	0	Q16	22.51	22.65	22.16	23.50
		MID	3	Q16	22.62	22.73	22.55	23.50
		HIGH	5	Q16	22.48	22.70	22.19	23.50
	3	LOW	0	Q16	22.40	22.42	22.60	23.50
		MID	1	Q16	22.29	22.51	22.48	23.50
		HIGH	3	Q16	22.51	22.50	22.45	23.50
	6	LOW	0	Q16	21.55	21.23	21.40	22.50
1.4	1	LOW	0	64QAM	21.40	21.72	21.33	22.50
		MID	12	64QAM	21.57	21.78	21.29	22.50
		HIGH	24	64QAM	21.42	21.57	21.39	22.50
	3	LOW	0	64QAM	21.38	21.58	21.62	22.50
		MID	7	64QAM	21.41	21.53	21.47	22.50
		HIGH	13	64QAM	21.56	21.75	21.54	22.50
	6	LOW	0	64QAM	20.38	20.13	20.42	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	0	QPSK	22.29	22.30	22.24	23.50
		MID	25	QPSK	22.22	22.37	22.41	23.50
		HIGH	49	QPSK	22.26	22.32	22.45	23.50
	8	LOW	0	QPSK	22.16	22.39	22.19	23.50
		MID	12	QPSK	22.32	22.14	22.35	23.50
		HIGH	25	QPSK	22.57	22.26	22.13	23.50
	15	LOW	0	QPSK	22.31	22.14	22.34	23.50
3	1	LOW	0	Q16	22.11	22.53	22.42	23.50
		MID	25	Q16	22.63	22.82	22.27	23.50
		HIGH	49	Q16	22.30	22.69	22.35	23.50
	8	LOW	0	Q16	20.98	21.52	21.21	22.50
		MID	12	Q16	21.45	21.24	21.53	22.50
		HIGH	25	Q16	21.31	21.25	21.37	22.50
	15	LOW	0	Q16	21.34	21.24	21.47	22.50
3	1	LOW	0	64QAM	21.33	21.41	21.22	22.50
		MID	25	64QAM	21.32	21.55	21.56	22.50
		HIGH	49	64QAM	21.45	21.69	21.40	22.50
	8	LOW	0	64QAM	21.05	21.20	21.38	21.50
		MID	12	64QAM	21.40	21.44	21.38	21.50
		HIGH	25	64QAM	21.38	21.21	21.44	21.50
	15	LOW	0	64QAM	20.28	20.36	20.28	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	0	QPSK	22.08	22.25	22.20	23.50
		MID	12	QPSK	22.52	22.47	22.43	23.50
		HIGH	24	QPSK	22.30	22.40	22.38	23.50
	12	LOW	0	QPSK	22.17	22.30	22.40	23.50
		MID	7	QPSK	22.24	22.27	22.35	23.50
		HIGH	13	QPSK	22.14	22.28	22.32	23.50
	25	LOW	0	QPSK	22.40	22.19	22.46	23.50
5	1	LOW	0	Q16	22.30	22.71	22.32	23.50
		MID	12	Q16	22.27	22.75	22.38	23.50
		HIGH	24	Q16	22.24	22.46	22.35	23.50
	12	LOW	0	Q16	21.30	21.35	21.42	22.50
		MID	7	Q16	21.36	21.23	21.35	22.50
		HIGH	13	Q16	21.53	21.34	21.44	22.50
	25	LOW	0	Q16	21.17	21.46	21.18	22.50
5	1	LOW	0	64QAM	21.06	21.63	21.10	22.50
		MID	12	64QAM	21.38	21.77	21.61	22.50
		HIGH	24	64QAM	21.12	21.76	21.10	22.50
	12	LOW	0	64QAM	20.08	20.40	20.45	21.50
		MID	7	64QAM	20.33	20.33	20.46	21.50
		HIGH	13	64QAM	20.41	20.25	20.30	21.50
	25	LOW	0	64QAM	20.05	20.34	20.36	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	0	QPSK	22.37	22.26	22.20	23.50
		MID	25	QPSK	22.40	22.38	22.39	23.50
		HIGH	49	QPSK	22.19	22.29	22.38	23.50
	25	LOW	0	QPSK	22.21	22.31	22.27	23.50
		MID	12	QPSK	**22.42**	22.38	22.35	23.50
		HIGH	25	QPSK	22.24	22.24	22.18	23.50
	50	LOW	0	QPSK	22.34	22.32	22.37	23.50
10	1	LOW	0	Q16	22.24	22.51	22.30	23.50
		MID	25	Q16	22.27	**22.67**	22.45	23.50
		HIGH	49	Q16	22.14	22.62	22.21	23.50
	25	LOW	0	Q16	21.20	21.23	21.46	22.50
		MID	12	Q16	21.48	21.31	21.36	22.50
		HIGH	25	Q16	21.45	21.25	21.39	22.50
	50	LOW	0	Q16	21.40	21.26	21.44	22.50
10	1	LOW	0	64QAM	21.34	21.53	21.28	22.50
		MID	25	64QAM	21.40	**21.68**	21.53	22.50
		HIGH	49	64QAM	21.40	21.66	21.21	22.50
	25	LOW	0	64QAM	20.18	20.22	20.42	21.50
		MID	12	64QAM	20.37	20.13	20.25	21.50
		HIGH	25	64QAM	20.59	20.24	20.59	21.50
	50	LOW	0	64QAM	20.37	20.11	20.37	21.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	23.46	23.46	23.41	24.50
		MID	3	QPSK	**23.71**	23.65	23.68	24.50
		HIGH	5	QPSK	23.47	23.42	23.44	24.50
	3	LOW	0	QPSK	23.58	23.53	23.57	24.50
		MID	1	QPSK	23.60	23.59	23.62	24.50
		HIGH	3	QPSK	23.55	23.53	23.58	24.50
	6	LOW	0	QPSK	22.55	22.54	22.51	23.50
1.4	1	LOW	0	Q16	22.58	22.82	22.38	23.50
		MID	3	Q16	22.77	22.98	22.67	23.50
		HIGH	5	Q16	22.60	22.79	22.45	23.50
	3	LOW	0	Q16	22.59	22.71	22.70	23.50
		MID	1	Q16	22.59	22.72	22.74	23.50
		HIGH	3	Q16	22.58	22.70	22.70	23.50
	6	LOW	0	Q16	21.67	21.43	21.64	22.50
1.4	1	LOW	0	64QAM	21.59	21.95	21.46	22.50
		MID	12	64QAM	21.68	22.03	21.55	22.50
		HIGH	24	64QAM	21.57	21.76	21.53	22.50
	3	LOW	0	64QAM	21.61	21.66	21.82	22.50
		MID	7	64QAM	21.47	21.65	21.68	22.50
		HIGH	13	64QAM	21.73	21.85	21.66	22.50
	6	LOW	0	64QAM	20.59	20.29	20.69	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	0	QPSK	23.51	23.47	23.52	24.50
		MID	25	QPSK	23.49	**23.56**	23.53	24.50
		HIGH	49	QPSK	23.39	23.50	**23.56**	24.50
	8	LOW	0	QPSK	22.44	22.56	22.38	23.50
		MID	12	QPSK	22.51	22.43	22.41	23.50
		HIGH	25	QPSK	22.65	22.41	22.34	23.50
	15	LOW	0	QPSK	22.54	22.40	22.65	23.50
3	1	LOW	0	Q16	22.37	22.71	22.58	23.50
		MID	25	Q16	22.70	23.08	22.52	23.50
		HIGH	49	Q16	22.39	22.83	22.57	23.50
	8	LOW	0	Q16	21.26	21.63	21.52	22.50
		MID	12	Q16	21.66	21.50	21.67	22.50
		HIGH	25	Q16	21.61	21.49	21.53	22.50
	15	LOW	0	Q16	21.59	21.41	21.60	22.50
3	1	LOW	0	64QAM	21.42	21.66	21.37	22.50
		MID	25	64QAM	21.55	21.82	21.69	22.50
		HIGH	49	64QAM	21.56	21.94	21.50	22.50
	8	LOW	0	64QAM	21.27	21.37	21.50	22.50
		MID	12	64QAM	21.69	21.60	21.66	22.50
		HIGH	25	64QAM	21.51	21.37	21.61	22.50
	15	LOW	0	64QAM	20.51	20.56	20.58	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	0	QPSK	23.35	23.40	23.41	24.50
		MID	12	QPSK	23.71	23.55	**23.74**	24.50
		HIGH	24	QPSK	23.54	23.55	23.52	24.50
	12	LOW	0	QPSK	22.28	22.40	22.51	23.50
		MID	7	QPSK	22.47	22.46	22.55	23.50
		HIGH	13	QPSK	22.42	22.36	22.41	23.50
	25	LOW	0	QPSK	22.49	22.43	22.63	23.50
5	1	LOW	0	Q16	22.44	22.88	22.56	23.50
		MID	12	Q16	22.49	22.86	22.51	23.50
		HIGH	24	Q16	22.39	22.75	22.61	23.50
	12	LOW	0	Q16	21.37	21.58	21.69	22.50
		MID	7	Q16	21.65	21.53	21.66	22.50
		HIGH	13	Q16	21.68	21.48	21.73	22.50
	25	LOW	0	Q16	21.36	21.62	21.49	22.50
5	1	LOW	0	64QAM	21.27	21.70	21.41	22.50
		MID	12	64QAM	21.67	21.89	21.77	22.50
		HIGH	24	64QAM	21.41	21.82	21.34	22.50
	12	LOW	0	64QAM	20.32	20.63	20.59	21.50
		MID	7	64QAM	20.55	20.50	20.71	21.50
		HIGH	13	64QAM	20.65	20.46	20.50	21.50
	25	LOW	0	64QAM	20.35	20.46	20.51	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	0	QPSK	23.46	23.46	23.47	24.50
		MID	25	QPSK	**23.69**	23.65	23.60	24.50
		HIGH	49	QPSK	23.49	23.50	23.50	24.50
	25	LOW	0	QPSK	22.38	22.46	22.53	23.50
		MID	12	QPSK	22.54	22.54	22.52	23.50
		HIGH	25	QPSK	22.52	22.46	22.46	23.50
	50	LOW	0	QPSK	22.51	22.53	22.53	23.50
10	1	LOW	0	Q16	22.41	22.79	22.45	23.50
		MID	25	Q16	22.55	**22.95**	22.63	23.50
		HIGH	49	Q16	22.42	22.85	22.46	23.50
	25	LOW	0	Q16	21.38	21.51	21.62	22.50
		MID	12	Q16	21.55	21.55	21.61	22.50
		HIGH	25	Q16	21.53	21.50	21.61	22.50
	50	LOW	0	Q16	21.48	21.54	21.55	22.50
10	1	LOW	0	64QAM	21.54	21.75	21.36	22.50
		MID	25	64QAM	21.46	**21.90**	21.65	22.50
		HIGH	49	64QAM	21.51	21.73	21.37	22.50
	25	LOW	0	64QAM	20.38	20.41	20.65	21.50
		MID	12	64QAM	20.61	20.44	20.55	21.50
		HIGH	25	64QAM	20.65	20.35	20.76	21.50
	50	LOW	0	64QAM	20.63	20.42	20.62	21.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	23.46	23.46	23.41	24.50
		MID	3	QPSK	**23.71**	23.65	23.68	24.50
		HIGH	5	QPSK	23.47	23.42	23.44	24.50
	3	LOW	0	QPSK	23.58	23.53	23.57	24.50
		MID	1	QPSK	23.60	23.59	23.62	24.50
		HIGH	3	QPSK	23.55	23.53	23.58	24.50
	6	LOW	0	QPSK	22.55	22.54	22.51	23.50
1.4	1	LOW	0	Q16	22.58	22.82	22.38	23.50
		MID	3	Q16	22.77	22.98	22.67	23.50
		HIGH	5	Q16	22.60	22.79	22.45	23.50
	3	LOW	0	Q16	22.59	22.71	22.70	23.50
		MID	1	Q16	22.59	22.72	22.74	23.50
		HIGH	3	Q16	22.58	22.70	22.70	23.50
	6	LOW	0	Q16	21.67	21.43	21.64	22.50
1.4	1	LOW	0	64QAM	21.59	21.95	21.46	22.50
		MID	12	64QAM	21.68	22.03	21.55	22.50
		HIGH	24	64QAM	21.57	21.76	21.53	22.50
	3	LOW	0	64QAM	21.61	21.66	21.82	22.50
		MID	7	64QAM	21.47	21.65	21.68	22.50
		HIGH	13	64QAM	21.73	21.85	21.66	22.50
	6	LOW	0	64QAM	20.59	20.29	20.69	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	0	QPSK	23.51	23.47	23.52	24.50
		MID	25	QPSK	23.49	**23.56**	23.53	24.50
		HIGH	49	QPSK	23.39	23.50	**23.56**	24.50
	8	LOW	0	QPSK	22.44	22.56	22.38	23.50
		MID	12	QPSK	22.51	22.43	22.41	23.50
		HIGH	25	QPSK	22.65	22.41	22.34	23.50
	15	LOW	0	QPSK	22.54	22.40	22.65	23.50
3	1	LOW	0	Q16	22.37	22.71	22.58	23.50
		MID	25	Q16	22.70	23.08	22.52	23.50
		HIGH	49	Q16	22.39	22.83	22.57	23.50
	8	LOW	0	Q16	21.26	21.63	21.52	22.50
		MID	12	Q16	21.66	21.50	21.67	22.50
		HIGH	25	Q16	21.61	21.49	21.53	22.50
	15	LOW	0	Q16	21.59	21.41	21.60	22.50
3	1	LOW	0	64QAM	21.42	21.66	21.37	22.50
		MID	25	64QAM	21.55	21.82	21.69	22.50
		HIGH	49	64QAM	21.56	21.94	21.50	22.50
	8	LOW	0	64QAM	21.27	21.37	21.50	22.50
		MID	12	64QAM	21.69	21.60	21.66	22.50
		HIGH	25	64QAM	21.51	21.37	21.61	22.50
	15	LOW	0	64QAM	20.51	20.56	20.58	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	0	QPSK	23.35	23.40	23.41	24.50
		MID	12	QPSK	23.71	23.55	**23.74**	24.50
		HIGH	24	QPSK	23.54	23.55	23.52	24.50
	12	LOW	0	QPSK	22.28	22.40	22.51	23.50
		MID	7	QPSK	22.47	22.46	22.55	23.50
		HIGH	13	QPSK	22.42	22.36	22.41	23.50
	25	LOW	0	QPSK	22.49	22.43	22.63	23.50
5	1	LOW	0	Q16	22.44	22.88	22.56	23.50
		MID	12	Q16	22.49	22.86	22.51	23.50
		HIGH	24	Q16	22.39	22.75	22.61	23.50
	12	LOW	0	Q16	21.37	21.58	21.69	22.50
		MID	7	Q16	21.65	21.53	21.66	22.50
		HIGH	13	Q16	21.68	21.48	21.73	22.50
	25	LOW	0	Q16	21.36	21.62	21.49	22.50
5	1	LOW	0	64QAM	21.27	21.70	21.41	22.50
		MID	12	64QAM	21.67	21.89	21.77	22.50
		HIGH	24	64QAM	21.41	21.82	21.34	22.50
	12	LOW	0	64QAM	20.32	20.63	20.59	21.50
		MID	7	64QAM	20.55	20.50	20.71	21.50
		HIGH	13	64QAM	20.65	20.46	20.50	21.50
	25	LOW	0	64QAM	20.35	20.46	20.51	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	0	QPSK	23.46	23.46	23.47	24.50
		MID	25	QPSK	**23.69**	23.65	23.60	24.50
		HIGH	49	QPSK	23.49	23.50	23.50	24.50
	25	LOW	0	QPSK	22.38	22.46	22.53	23.50
		MID	12	QPSK	22.54	22.54	22.52	23.50
		HIGH	25	QPSK	22.52	22.46	22.46	23.50
	50	LOW	0	QPSK	22.51	22.53	22.53	23.50
10	1	LOW	0	Q16	22.41	22.79	22.45	23.50
		MID	25	Q16	22.55	**22.95**	22.63	23.50
		HIGH	49	Q16	22.42	22.85	22.46	23.50
	25	LOW	0	Q16	21.38	21.51	21.62	22.50
		MID	12	Q16	21.55	21.55	21.61	22.50
		HIGH	25	Q16	21.53	21.50	21.61	22.50
	50	LOW	0	Q16	21.48	21.54	21.55	22.50
10	1	LOW	0	64QAM	21.54	21.75	21.36	22.50
		MID	25	64QAM	21.46	**21.90**	21.65	22.50
		HIGH	49	64QAM	21.51	21.73	21.37	22.50
	25	LOW	0	64QAM	20.38	20.41	20.65	21.50
		MID	12	64QAM	20.61	20.44	20.55	21.50
		HIGH	25	64QAM	20.65	20.35	20.76	21.50
	50	LOW	0	64QAM	20.63	20.42	20.62	21.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	23.46	23.46	23.41	24.50
		MID	3	QPSK	**23.71**	23.65	23.68	24.50
		HIGH	5	QPSK	23.47	23.42	23.44	24.50
	3	LOW	0	QPSK	23.58	23.53	23.57	24.50
		MID	1	QPSK	23.60	23.59	23.62	24.50
		HIGH	3	QPSK	23.55	23.53	23.58	24.50
	6	LOW	0	QPSK	22.55	22.54	22.51	23.50
1.4	1	LOW	0	Q16	22.58	22.82	22.38	23.50
		MID	3	Q16	22.77	22.98	22.67	23.50
		HIGH	5	Q16	22.60	22.79	22.45	23.50
	3	LOW	0	Q16	22.59	22.71	22.70	23.50
		MID	1	Q16	22.59	22.72	22.74	23.50
		HIGH	3	Q16	22.58	22.70	22.70	23.50
	6	LOW	0	Q16	21.67	21.43	21.64	22.50
1.4	1	LOW	0	64QAM	21.59	21.95	21.46	22.50
		MID	12	64QAM	21.68	22.03	21.55	22.50
		HIGH	24	64QAM	21.57	21.76	21.53	22.50
	3	LOW	0	64QAM	21.61	21.66	21.82	22.50
		MID	7	64QAM	21.47	21.65	21.68	22.50
		HIGH	13	64QAM	21.73	21.85	21.66	22.50
	6	LOW	0	64QAM	20.59	20.29	20.69	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	0	QPSK	23.51	23.47	23.52	24.50
		MID	25	QPSK	23.49	**23.56**	23.53	24.50
		HIGH	49	QPSK	23.39	23.50	**23.56**	24.50
	8	LOW	0	QPSK	22.44	22.56	22.38	23.50
		MID	12	QPSK	22.51	22.43	22.41	23.50
		HIGH	25	QPSK	22.65	22.41	22.34	23.50
	15	LOW	0	QPSK	22.54	22.40	22.65	23.50
3	1	LOW	0	Q16	22.37	22.71	22.58	23.50
		MID	25	Q16	22.70	23.08	22.52	23.50
		HIGH	49	Q16	22.39	22.83	22.57	23.50
	8	LOW	0	Q16	21.26	21.63	21.52	22.50
		MID	12	Q16	21.66	21.50	21.67	22.50
		HIGH	25	Q16	21.61	21.49	21.53	22.50
	15	LOW	0	Q16	21.59	21.41	21.60	22.50
3	1	LOW	0	64QAM	21.42	21.66	21.37	22.50
		MID	25	64QAM	21.55	21.82	21.69	22.50
		HIGH	49	64QAM	21.56	21.94	21.50	22.50
	8	LOW	0	64QAM	21.27	21.37	21.50	22.50
		MID	12	64QAM	21.69	21.60	21.66	22.50
		HIGH	25	64QAM	21.51	21.37	21.61	22.50
	15	LOW	0	64QAM	20.51	20.56	20.58	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	0	QPSK	23.35	23.40	23.41	24.50
		MID	12	QPSK	23.71	23.55	**23.74**	24.50
		HIGH	24	QPSK	23.54	23.55	23.52	24.50
	12	LOW	0	QPSK	22.28	22.40	22.51	23.50
		MID	7	QPSK	22.47	22.46	22.55	23.50
		HIGH	13	QPSK	22.42	22.36	22.41	23.50
	25	LOW	0	QPSK	22.49	22.43	22.63	23.50
5	1	LOW	0	Q16	22.44	22.88	22.56	23.50
		MID	12	Q16	22.49	22.86	22.51	23.50
		HIGH	24	Q16	22.39	22.75	22.61	23.50
	12	LOW	0	Q16	21.37	21.58	21.69	22.50
		MID	7	Q16	21.65	21.53	21.66	22.50
		HIGH	13	Q16	21.68	21.48	21.73	22.50
	25	LOW	0	Q16	21.36	21.62	21.49	22.50
5	1	LOW	0	64QAM	21.27	21.70	21.41	22.50
		MID	12	64QAM	21.67	21.89	21.77	22.50
		HIGH	24	64QAM	21.41	21.82	21.34	22.50
	12	LOW	0	64QAM	20.32	20.63	20.59	21.50
		MID	7	64QAM	20.55	20.50	20.71	21.50
		HIGH	13	64QAM	20.65	20.46	20.50	21.50
	25	LOW	0	64QAM	20.35	20.46	20.51	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	0	QPSK	23.46	23.46	23.47	24.50
		MID	25	QPSK	**23.69**	23.65	23.60	24.50
		HIGH	49	QPSK	23.49	23.50	23.50	24.50
	25	LOW	0	QPSK	22.38	22.46	22.53	23.50
		MID	12	QPSK	22.54	22.54	22.52	23.50
		HIGH	25	QPSK	22.52	22.46	22.46	23.50
	50	LOW	0	QPSK	22.51	22.53	22.53	23.50
10	1	LOW	0	Q16	22.41	22.79	22.45	23.50
		MID	25	Q16	22.55	**22.95**	22.63	23.50
		HIGH	49	Q16	22.42	22.85	22.46	23.50
	25	LOW	0	Q16	21.38	21.51	21.62	22.50
		MID	12	Q16	21.55	21.55	21.61	22.50
		HIGH	25	Q16	21.53	21.50	21.61	22.50
	50	LOW	0	Q16	21.48	21.54	21.55	22.50
10	1	LOW	0	64QAM	21.54	21.75	21.36	22.50
		MID	25	64QAM	21.46	**21.90**	21.65	22.50
		HIGH	49	64QAM	21.51	21.73	21.37	22.50
	25	LOW	0	64QAM	20.38	20.41	20.65	21.50
		MID	12	64QAM	20.61	20.44	20.55	21.50
		HIGH	25	64QAM	20.65	20.35	20.76	21.50
	50	LOW	0	64QAM	20.63	20.42	20.62	21.50

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Bandwidth (MHz)	RB Size	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.46	23.46	23.41	24.50
		MID	QPSK	**23.71**	23.65	23.68	24.50
		HIGH	QPSK	23.47	23.42	23.44	24.50
	3	LOW	QPSK	23.58	23.53	23.57	24.50
		MID	QPSK	23.60	23.59	23.62	24.50
		HIGH	QPSK	23.55	23.53	23.58	24.50
	6	LOW	QPSK	22.55	22.54	22.51	23.50
1.4	1	LOW	Q16	22.58	22.82	22.38	23.50
		MID	Q16	22.77	22.98	22.67	23.50
		HIGH	Q16	22.60	22.79	22.45	23.50
	3	LOW	Q16	22.59	22.71	22.70	23.50
		MID	Q16	22.59	22.72	22.74	23.50
		HIGH	Q16	22.58	22.70	22.70	23.50
	6	LOW	Q16	21.67	21.43	21.64	22.50
1.4	1	LOW	64QAM	21.59	21.95	21.46	22.50
		MID	64QAM	21.68	22.03	21.55	22.50
		HIGH	64QAM	21.57	21.76	21.53	22.50
	3	LOW	64QAM	21.61	21.66	21.82	22.50
		MID	64QAM	21.47	21.65	21.68	22.50
		HIGH	64QAM	21.73	21.85	21.66	22.50
	6	LOW	64QAM	20.59	20.29	20.69	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	QPSK	23.51	23.47	23.52	24.50
		MID	QPSK	23.49	**23.56**	23.53	24.50
		HIGH	QPSK	23.39	23.50	**23.56**	24.50
	8	LOW	QPSK	22.44	22.56	22.38	23.50
		MID	QPSK	22.51	22.43	22.41	23.50
		HIGH	QPSK	22.65	22.41	22.34	23.50
	15	LOW	QPSK	22.54	22.40	22.65	23.50
3	1	LOW	Q16	22.37	22.71	22.58	23.50
		MID	Q16	22.70	23.08	22.52	23.50
		HIGH	Q16	22.39	22.83	22.57	23.50
	8	LOW	Q16	21.26	21.63	21.52	22.50
		MID	Q16	21.66	21.50	21.67	22.50
		HIGH	Q16	21.61	21.49	21.53	22.50
	15	LOW	Q16	21.59	21.41	21.60	22.50
3	1	LOW	64QAM	21.42	21.66	21.37	22.50
		MID	64QAM	21.55	21.82	21.69	22.50
		HIGH	64QAM	21.56	21.94	21.50	22.50
	8	LOW	64QAM	21.27	21.37	21.50	22.50
		MID	64QAM	21.69	21.60	21.66	22.50
		HIGH	64QAM	21.51	21.37	21.61	22.50
	15	LOW	64QAM	20.51	20.56	20.58	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	QPSK	23.35	23.40	23.41	24.50
		MID	QPSK	23.71	23.55	**23.74**	24.50
		HIGH	QPSK	23.54	23.55	23.52	24.50
	12	LOW	QPSK	22.28	22.40	22.51	23.50
		MID	QPSK	22.47	22.46	22.55	23.50
		HIGH	QPSK	22.42	22.36	22.41	23.50
	25	LOW	QPSK	22.49	22.43	22.63	23.50
5	1	LOW	Q16	22.44	22.88	22.56	23.50
		MID	Q16	22.49	22.86	22.51	23.50
		HIGH	Q16	22.39	22.75	22.61	23.50
	12	LOW	Q16	21.37	21.58	21.69	22.50
		MID	Q16	21.65	21.53	21.66	22.50
		HIGH	Q16	21.68	21.48	21.73	22.50
	25	LOW	Q16	21.36	21.62	21.49	22.50
5	1	LOW	64QAM	21.27	21.70	21.41	22.50
		MID	64QAM	21.67	21.89	21.77	22.50
		HIGH	64QAM	21.41	21.82	21.34	22.50
	12	LOW	64QAM	20.32	20.63	20.59	21.50
		MID	64QAM	20.55	20.50	20.71	21.50
		HIGH	64QAM	20.65	20.46	20.50	21.50
	25	LOW	64QAM	20.35	20.46	20.51	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	QPSK	23.46	23.46	23.47	24.50
		MID	QPSK	**23.69**	23.65	23.60	24.50
		HIGH	QPSK	23.49	23.50	23.50	24.50
	25	LOW	QPSK	22.38	22.46	22.53	23.50
		MID	QPSK	22.54	22.54	22.52	23.50
		HIGH	QPSK	22.52	22.46	22.46	23.50
	50	LOW	QPSK	22.51	22.53	22.53	23.50
10	1	LOW	Q16	22.41	22.79	22.45	23.50
		MID	Q16	22.55	**22.95**	22.63	23.50
		HIGH	Q16	22.42	22.85	22.46	23.50
	25	LOW	Q16	21.38	21.51	21.62	22.50
		MID	Q16	21.55	21.55	21.61	22.50
		HIGH	Q16	21.53	21.50	21.61	22.50
	50	LOW	Q16	21.48	21.54	21.55	22.50
10	1	LOW	64QAM	21.54	21.75	21.36	22.50
		MID	64QAM	21.46	**21.90**	21.65	22.50
		HIGH	64QAM	21.51	21.73	21.37	22.50
	25	LOW	64QAM	20.38	20.41	20.65	21.50
		MID	64QAM	20.61	20.44	20.55	21.50
		HIGH	64QAM	20.65	20.35	20.76	21.50
	50	LOW	64QAM	20.63	20.42	20.62	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.25	23.21	23.13	25.00
		MID	QPSK	**23.46**	23.40	23.42	25.00
		HIGH	QPSK	23.30	23.20	23.17	25.00
	3	LOW	QPSK	23.37	23.31	23.28	25.00
		MID	QPSK	23.38	23.34	23.34	25.00
		HIGH	QPSK	23.41	23.26	23.32	25.00
	6	LOW	QPSK	22.33	22.30	22.24	24.00
1.4	1	LOW	Q16	22.34	22.54	22.20	24.00
		MID	Q16	22.62	22.68	22.38	24.00
		HIGH	Q16	22.36	22.52	22.26	24.00
	3	LOW	Q16	22.35	22.42	22.45	24.00
		MID	Q16	22.39	22.43	22.47	24.00
		HIGH	Q16	22.38	22.48	22.42	24.00
	6	LOW	Q16	21.48	21.12	21.37	23.00
1.4	1	LOW	64QAM	21.41	21.59	21.05	23.00
		MID	64QAM	21.59	21.78	21.24	23.00
		HIGH	64QAM	21.34	21.54	21.33	23.00
	3	LOW	64QAM	21.47	21.45	21.56	23.00
		MID	64QAM	21.42	21.51	21.45	23.00
		HIGH	64QAM	21.36	21.44	21.44	23.00
	6	LOW	64QAM	20.55	20.05	20.51	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	QPSK	23.28	23.16	23.16	25.00
		MID	QPSK	23.24	**23.40**	23.36	25.00
		HIGH	QPSK	23.31	23.19	23.13	25.00
	8	LOW	QPSK	22.21	22.23	22.37	24.00
		MID	QPSK	22.40	22.30	22.32	24.00
		HIGH	QPSK	22.37	22.20	22.43	24.00
	15	LOW	QPSK	22.31	22.17	22.30	24.00
3	1	LOW	Q16	22.23	22.60	22.12	24.00
		MID	Q16	22.35	22.68	22.29	24.00
		HIGH	Q16	22.04	22.54	22.13	24.00
	8	LOW	Q16	21.13	21.23	21.52	23.00
		MID	Q16	21.27	21.22	21.30	23.00
		HIGH	Q16	21.36	21.19	21.39	23.00
	15	LOW	Q16	21.12	21.31	21.43	23.00
3	1	LOW	64QAM	21.09	21.69	21.21	23.00
		MID	64QAM	21.24	21.71	21.33	23.00
		HIGH	64QAM	21.25	21.61	21.35	23.00
	8	LOW	64QAM	20.24	20.29	20.56	22.00
		MID	64QAM	20.45	20.38	20.41	22.00
		HIGH	64QAM	20.11	20.32	20.44	22.00
	15	LOW	64QAM	20.24	20.31	20.37	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	QPSK	23.32	23.27	23.31	25.00
		MID	QPSK	23.40	23.24	**23.44**	25.00
		HIGH	QPSK	23.07	23.13	23.31	25.00
	12	LOW	QPSK	22.12	22.15	22.51	24.00
		MID	QPSK	22.34	22.24	22.27	24.00
		HIGH	QPSK	22.35	22.27	22.19	24.00
	25	LOW	QPSK	22.05	22.03	22.34	24.00
5	1	LOW	Q16	22.00	22.48	22.26	24.00
		MID	Q16	22.25	22.75	22.26	24.00
		HIGH	Q16	22.13	22.60	22.17	24.00
	12	LOW	Q16	21.22	21.13	21.38	23.00
		MID	Q16	21.20	21.14	21.27	23.00
		HIGH	Q16	21.28	21.25	21.33	23.00
	25	LOW	Q16	21.27	21.12	21.39	23.00
5	1	LOW	64QAM	21.15	21.43	21.00	23.00
		MID	64QAM	21.38	21.70	21.20	23.00
		HIGH	64QAM	21.03	21.47	21.14	23.00
	12	LOW	64QAM	20.09	20.19	20.53	22.00
		MID	64QAM	20.25	20.11	20.39	22.00
		HIGH	64QAM	20.13	20.12	20.52	22.00
	25	LOW	64QAM	20.10	20.14	20.36	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	QPSK	23.19	23.16	23.16	25.00
		MID	QPSK	**23.38**	23.36	23.33	25.00
		HIGH	QPSK	23.20	23.24	23.26	25.00
	25	LOW	QPSK	22.16	22.20	22.36	24.00
		MID	QPSK	22.37	22.25	22.25	24.00
		HIGH	QPSK	22.23	22.15	22.29	24.00
	50	LOW	QPSK	22.16	22.18	22.34	24.00
10	1	LOW	Q16	22.08	22.54	22.13	24.00
		MID	Q16	22.31	**22.69**	22.33	24.00
		HIGH	Q16	22.11	22.60	22.25	24.00
	25	LOW	Q16	21.09	21.22	21.46	23.00
		MID	Q16	21.34	21.25	21.36	23.00
		HIGH	Q16	21.23	21.18	21.46	23.00
	50	LOW	Q16	21.15	21.19	21.43	23.00
10	1	LOW	64QAM	21.05	21.52	21.09	23.00
		MID	64QAM	21.30	**21.82**	21.20	23.00
		HIGH	64QAM	21.13	21.54	21.20	23.00
	25	LOW	64QAM	20.04	20.15	20.50	22.00
		MID	64QAM	20.35	20.31	20.29	22.00
		HIGH	64QAM	20.19	20.30	20.40	22.00
	50	LOW	64QAM	20.22	20.06	20.45	22.00

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Bandwidth(MHz)	RB Size	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.25	23.21	23.13	25.00
		MID	QPSK	**23.46**	23.40	23.42	25.00
		HIGH	QPSK	23.30	23.20	23.17	25.00
	3	LOW	QPSK	23.37	23.31	23.28	25.00
		MID	QPSK	23.38	23.34	23.34	25.00
		HIGH	QPSK	23.41	23.26	23.32	25.00
	6	LOW	QPSK	22.33	22.30	22.24	24.00
1.4	1	LOW	Q16	22.34	22.54	22.20	24.00
		MID	Q16	22.62	22.68	22.38	24.00
		HIGH	Q16	22.36	22.52	22.26	24.00
	3	LOW	Q16	22.35	22.42	22.45	24.00
		MID	Q16	22.39	22.43	22.47	24.00
		HIGH	Q16	22.38	22.48	22.42	24.00
	6	LOW	Q16	21.48	21.12	21.37	23.00
1.4	1	LOW	64QAM	21.41	21.59	21.05	23.00
		MID	64QAM	21.59	21.78	21.24	23.00
		HIGH	64QAM	21.34	21.54	21.33	23.00
	3	LOW	64QAM	21.47	21.45	21.56	23.00
		MID	64QAM	21.42	21.51	21.45	23.00
		HIGH	64QAM	21.36	21.44	21.44	23.00
	6	LOW	64QAM	20.55	20.05	20.51	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	QPSK	23.28	23.16	23.16	25.00
		MID	QPSK	23.24	**23.40**	23.36	25.00
		HIGH	QPSK	23.31	23.19	23.13	25.00
	8	LOW	QPSK	22.21	22.23	22.37	24.00
		MID	QPSK	22.40	22.30	22.32	24.00
		HIGH	QPSK	22.37	22.20	22.43	24.00
	15	LOW	QPSK	22.31	22.17	22.30	24.00
3	1	LOW	Q16	22.23	22.60	22.12	24.00
		MID	Q16	22.35	22.68	22.29	24.00
		HIGH	Q16	22.04	22.54	22.13	24.00
	8	LOW	Q16	21.13	21.23	21.52	23.00
		MID	Q16	21.27	21.22	21.30	23.00
		HIGH	Q16	21.36	21.19	21.39	23.00
	15	LOW	Q16	21.12	21.31	21.43	23.00
3	1	LOW	64QAM	21.09	21.69	21.21	23.00
		MID	64QAM	21.24	21.71	21.33	23.00
		HIGH	64QAM	21.25	21.61	21.35	23.00
	8	LOW	64QAM	20.24	20.29	20.56	22.00
		MID	64QAM	20.45	20.38	20.41	22.00
		HIGH	64QAM	20.11	20.32	20.44	22.00
	15	LOW	64QAM	20.24	20.31	20.37	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	QPSK	23.32	23.27	23.31	25.00
		MID	QPSK	23.40	23.24	**23.44**	25.00
		HIGH	QPSK	23.07	23.13	23.31	25.00
	12	LOW	QPSK	22.12	22.15	22.51	24.00
		MID	QPSK	22.34	22.24	22.27	24.00
		HIGH	QPSK	22.35	22.27	22.19	24.00
	25	LOW	QPSK	22.05	22.03	22.34	24.00
5	1	LOW	Q16	22.00	22.48	22.26	24.00
		MID	Q16	22.25	22.75	22.26	24.00
		HIGH	Q16	22.13	22.60	22.17	24.00
	12	LOW	Q16	21.22	21.13	21.38	23.00
		MID	Q16	21.20	21.14	21.27	23.00
		HIGH	Q16	21.28	21.25	21.33	23.00
	25	LOW	Q16	21.27	21.12	21.39	23.00
5	1	LOW	64QAM	21.15	21.43	21.00	23.00
		MID	64QAM	21.38	21.70	21.20	23.00
		HIGH	64QAM	21.03	21.47	21.14	23.00
	12	LOW	64QAM	20.09	20.19	20.53	22.00
		MID	64QAM	20.25	20.11	20.39	22.00
		HIGH	64QAM	20.13	20.12	20.52	22.00
	25	LOW	64QAM	20.10	20.14	20.36	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	QPSK	23.19	23.16	23.16	25.00
		MID	QPSK	**23.38**	23.36	23.33	25.00
		HIGH	QPSK	23.20	23.24	23.26	25.00
	25	LOW	QPSK	22.16	22.20	22.36	24.00
		MID	QPSK	22.37	22.25	22.25	24.00
		HIGH	QPSK	22.23	22.15	22.29	24.00
	50	LOW	QPSK	22.16	22.18	22.34	24.00
10	1	LOW	Q16	22.08	22.54	22.13	24.00
		MID	Q16	22.31	**22.69**	22.33	24.00
		HIGH	Q16	22.11	22.60	22.25	24.00
	25	LOW	Q16	21.09	21.22	21.46	23.00
		MID	Q16	21.34	21.25	21.36	23.00
		HIGH	Q16	21.23	21.18	21.46	23.00
	50	LOW	Q16	21.15	21.19	21.43	23.00
10	1	LOW	64QAM	21.05	21.52	21.09	23.00
		MID	64QAM	21.30	**21.82**	21.20	23.00
		HIGH	64QAM	21.13	21.54	21.20	23.00
	25	LOW	64QAM	20.04	20.15	20.50	22.00
		MID	64QAM	20.35	20.31	20.29	22.00
		HIGH	64QAM	20.19	20.30	20.40	22.00
	50	LOW	64QAM	20.22	20.06	20.45	22.00

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Bandwidth(MHz)	RB Size	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.25	23.21	23.13	25.00
		MID	QPSK	**23.46**	23.40	23.42	25.00
		HIGH	QPSK	23.30	23.20	23.17	25.00
	3	LOW	QPSK	23.37	23.31	23.28	25.00
		MID	QPSK	23.38	23.34	23.34	25.00
		HIGH	QPSK	23.41	23.26	23.32	25.00
	6	LOW	QPSK	22.33	22.30	22.24	24.00
1.4	1	LOW	Q16	22.34	22.54	22.20	24.00
		MID	Q16	22.62	22.68	22.38	24.00
		HIGH	Q16	22.36	22.52	22.26	24.00
	3	LOW	Q16	22.35	22.42	22.45	24.00
		MID	Q16	22.39	22.43	22.47	24.00
		HIGH	Q16	22.38	22.48	22.42	24.00
	6	LOW	Q16	21.48	21.12	21.37	23.00
1.4	1	LOW	64QAM	21.41	21.59	21.05	23.00
		MID	64QAM	21.59	21.78	21.24	23.00
		HIGH	64QAM	21.34	21.54	21.33	23.00
	3	LOW	64QAM	21.47	21.45	21.56	23.00
		MID	64QAM	21.42	21.51	21.45	23.00
		HIGH	64QAM	21.36	21.44	21.44	23.00
	6	LOW	64QAM	20.55	20.05	20.51	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	QPSK	23.28	23.16	23.16	25.00
		MID	QPSK	23.24	**23.40**	23.36	25.00
		HIGH	QPSK	23.31	23.19	23.13	25.00
	8	LOW	QPSK	22.21	22.23	22.37	24.00
		MID	QPSK	22.40	22.30	22.32	24.00
		HIGH	QPSK	22.37	22.20	22.43	24.00
	15	LOW	QPSK	22.31	22.17	22.30	24.00
3	1	LOW	Q16	22.23	22.60	22.12	24.00
		MID	Q16	22.35	22.68	22.29	24.00
		HIGH	Q16	22.04	22.54	22.13	24.00
	8	LOW	Q16	21.13	21.23	21.52	23.00
		MID	Q16	21.27	21.22	21.30	23.00
		HIGH	Q16	21.36	21.19	21.39	23.00
	15	LOW	Q16	21.12	21.31	21.43	23.00
3	1	LOW	64QAM	21.09	21.69	21.21	23.00
		MID	64QAM	21.24	21.71	21.33	23.00
		HIGH	64QAM	21.25	21.61	21.35	23.00
	8	LOW	64QAM	20.24	20.29	20.56	22.00
		MID	64QAM	20.45	20.38	20.41	22.00
		HIGH	64QAM	20.11	20.32	20.44	22.00
	15	LOW	64QAM	20.24	20.31	20.37	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	QPSK	23.32	23.27	23.31	25.00
		MID	QPSK	23.40	23.24	**23.44**	25.00
		HIGH	QPSK	23.07	23.13	23.31	25.00
	12	LOW	QPSK	22.12	22.15	22.51	24.00
		MID	QPSK	22.34	22.24	22.27	24.00
		HIGH	QPSK	22.35	22.27	22.19	24.00
	25	LOW	QPSK	22.05	22.03	22.34	24.00
5	1	LOW	Q16	22.00	22.48	22.26	24.00
		MID	Q16	22.25	22.75	22.26	24.00
		HIGH	Q16	22.13	22.60	22.17	24.00
	12	LOW	Q16	21.22	21.13	21.38	23.00
		MID	Q16	21.20	21.14	21.27	23.00
		HIGH	Q16	21.28	21.25	21.33	23.00
	25	LOW	Q16	21.27	21.12	21.39	23.00
5	1	LOW	64QAM	21.15	21.43	21.00	23.00
		MID	64QAM	21.38	21.70	21.20	23.00
		HIGH	64QAM	21.03	21.47	21.14	23.00
	12	LOW	64QAM	20.09	20.19	20.53	22.00
		MID	64QAM	20.25	20.11	20.39	22.00
		HIGH	64QAM	20.13	20.12	20.52	22.00
	25	LOW	64QAM	20.10	20.14	20.36	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	QPSK	23.19	23.16	23.16	25.00
		MID	QPSK	**23.38**	23.36	23.33	25.00
		HIGH	QPSK	23.20	23.24	23.26	25.00
	25	LOW	QPSK	22.16	22.20	22.36	24.00
		MID	QPSK	22.37	22.25	22.25	24.00
		HIGH	QPSK	22.23	22.15	22.29	24.00
	50	LOW	QPSK	22.16	22.18	22.34	24.00
10	1	LOW	Q16	22.08	22.54	22.13	24.00
		MID	Q16	22.31	**22.69**	22.33	24.00
		HIGH	Q16	22.11	22.60	22.25	24.00
	25	LOW	Q16	21.09	21.22	21.46	23.00
		MID	Q16	21.34	21.25	21.36	23.00
		HIGH	Q16	21.23	21.18	21.46	23.00
	50	LOW	Q16	21.15	21.19	21.43	23.00
10	1	LOW	64QAM	21.05	21.52	21.09	23.00
		MID	64QAM	21.30	**21.82**	21.20	23.00
		HIGH	64QAM	21.13	21.54	21.20	23.00
	25	LOW	64QAM	20.04	20.15	20.50	22.00
		MID	64QAM	20.35	20.31	20.29	22.00
		HIGH	64QAM	20.19	20.30	20.40	22.00
	50	LOW	64QAM	20.22	20.06	20.45	22.00

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Bandwidth(MHz)	RB Size	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.25	23.21	23.13	25.00
		MID	QPSK	**23.46**	23.40	23.42	25.00
		HIGH	QPSK	23.30	23.20	23.17	25.00
	3	LOW	QPSK	23.37	23.31	23.28	25.00
		MID	QPSK	23.38	23.34	23.34	25.00
		HIGH	QPSK	23.41	23.26	23.32	25.00
	6	LOW	QPSK	22.33	22.30	22.24	24.00
1.4	1	LOW	Q16	22.34	22.54	22.20	24.00
		MID	Q16	22.62	22.68	22.38	24.00
		HIGH	Q16	22.36	22.52	22.26	24.00
	3	LOW	Q16	22.35	22.42	22.45	24.00
		MID	Q16	22.39	22.43	22.47	24.00
		HIGH	Q16	22.38	22.48	22.42	24.00
	6	LOW	Q16	21.48	21.12	21.37	23.00
1.4	1	LOW	64QAM	21.41	21.59	21.05	23.00
		MID	64QAM	21.59	21.78	21.24	23.00
		HIGH	64QAM	21.34	21.54	21.33	23.00
	3	LOW	64QAM	21.47	21.45	21.56	23.00
		MID	64QAM	21.42	21.51	21.45	23.00
		HIGH	64QAM	21.36	21.44	21.44	23.00
	6	LOW	64QAM	20.55	20.05	20.51	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	QPSK	23.28	23.16	23.16	25.00
		MID	QPSK	23.24	**23.40**	23.36	25.00
		HIGH	QPSK	23.31	23.19	23.13	25.00
	8	LOW	QPSK	22.21	22.23	22.37	24.00
		MID	QPSK	22.40	22.30	22.32	24.00
		HIGH	QPSK	22.37	22.20	22.43	24.00
	15	LOW	QPSK	22.31	22.17	22.30	24.00
3	1	LOW	Q16	22.23	22.60	22.12	24.00
		MID	Q16	22.35	22.68	22.29	24.00
		HIGH	Q16	22.04	22.54	22.13	24.00
	8	LOW	Q16	21.13	21.23	21.52	23.00
		MID	Q16	21.27	21.22	21.30	23.00
		HIGH	Q16	21.36	21.19	21.39	23.00
	15	LOW	Q16	21.12	21.31	21.43	23.00
3	1	LOW	64QAM	21.09	21.69	21.21	23.00
		MID	64QAM	21.24	21.71	21.33	23.00
		HIGH	64QAM	21.25	21.61	21.35	23.00
	8	LOW	64QAM	20.24	20.29	20.56	22.00
		MID	64QAM	20.45	20.38	20.41	22.00
		HIGH	64QAM	20.11	20.32	20.44	22.00
	15	LOW	64QAM	20.24	20.31	20.37	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	QPSK	23.32	23.27	23.31	25.00
		MID	QPSK	23.40	23.24	**23.44**	25.00
		HIGH	QPSK	23.07	23.13	23.31	25.00
	12	LOW	QPSK	22.12	22.15	22.51	24.00
		MID	QPSK	22.34	22.24	22.27	24.00
		HIGH	QPSK	22.35	22.27	22.19	24.00
	25	LOW	QPSK	22.05	22.03	22.34	24.00
5	1	LOW	Q16	22.00	22.48	22.26	24.00
		MID	Q16	22.25	22.75	22.26	24.00
		HIGH	Q16	22.13	22.60	22.17	24.00
	12	LOW	Q16	21.22	21.13	21.38	23.00
		MID	Q16	21.20	21.14	21.27	23.00
		HIGH	Q16	21.28	21.25	21.33	23.00
	25	LOW	Q16	21.27	21.12	21.39	23.00
5	1	LOW	64QAM	21.15	21.43	21.00	23.00
		MID	64QAM	21.38	21.70	21.20	23.00
		HIGH	64QAM	21.03	21.47	21.14	23.00
	12	LOW	64QAM	20.09	20.19	20.53	22.00
		MID	64QAM	20.25	20.11	20.39	22.00
		HIGH	64QAM	20.13	20.12	20.52	22.00
	25	LOW	64QAM	20.10	20.14	20.36	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	QPSK	23.19	23.16	23.16	25.00
		MID	QPSK	**23.38**	23.36	23.33	25.00
		HIGH	QPSK	23.20	23.24	23.26	25.00
	25	LOW	QPSK	22.16	22.20	22.36	24.00
		MID	QPSK	22.37	22.25	22.25	24.00
		HIGH	QPSK	22.23	22.15	22.29	24.00
	50	LOW	QPSK	22.16	22.18	22.34	24.00
10	1	LOW	Q16	22.08	22.54	22.13	24.00
		MID	Q16	22.31	**22.69**	22.33	24.00
		HIGH	Q16	22.11	22.60	22.25	24.00
	25	LOW	Q16	21.09	21.22	21.46	23.00
		MID	Q16	21.34	21.25	21.36	23.00
		HIGH	Q16	21.23	21.18	21.46	23.00
	50	LOW	Q16	21.15	21.19	21.43	23.00
10	1	LOW	64QAM	21.05	21.52	21.09	23.00
		MID	64QAM	21.30	**21.82**	21.20	23.00
		HIGH	64QAM	21.13	21.54	21.20	23.00
	25	LOW	64QAM	20.04	20.15	20.50	22.00
		MID	64QAM	20.35	20.31	20.29	22.00
		HIGH	64QAM	20.19	20.30	20.40	22.00
	50	LOW	64QAM	20.22	20.06	20.45	22.00

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Bandwidth(MHz)	RB Size	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.25	23.21	23.13	25.00
		MID	QPSK	**23.46**	23.40	23.42	25.00
		HIGH	QPSK	23.30	23.20	23.17	25.00
	3	LOW	QPSK	23.37	23.31	23.28	25.00
		MID	QPSK	23.38	23.34	23.34	25.00
		HIGH	QPSK	23.41	23.26	23.32	25.00
	6	LOW	QPSK	22.33	22.30	22.24	24.00
1.4	1	LOW	Q16	22.34	22.54	22.20	24.00
		MID	Q16	22.62	22.68	22.38	24.00
		HIGH	Q16	22.36	22.52	22.26	24.00
	3	LOW	Q16	22.35	22.42	22.45	24.00
		MID	Q16	22.39	22.43	22.47	24.00
		HIGH	Q16	22.38	22.48	22.42	24.00
	6	LOW	Q16	21.48	21.12	21.37	23.00
1.4	1	LOW	64QAM	21.41	21.59	21.05	23.00
		MID	64QAM	21.59	21.78	21.24	23.00
		HIGH	64QAM	21.34	21.54	21.33	23.00
	3	LOW	64QAM	21.47	21.45	21.56	23.00
		MID	64QAM	21.42	21.51	21.45	23.00
		HIGH	64QAM	21.36	21.44	21.44	23.00
	6	LOW	64QAM	20.55	20.05	20.51	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	QPSK	23.28	23.16	23.16	25.00
		MID	QPSK	23.24	**23.40**	23.36	25.00
		HIGH	QPSK	23.31	23.19	23.13	25.00
	8	LOW	QPSK	22.21	22.23	22.37	24.00
		MID	QPSK	22.40	22.30	22.32	24.00
		HIGH	QPSK	22.37	22.20	22.43	24.00
	15	LOW	QPSK	22.31	22.17	22.30	24.00
3	1	LOW	Q16	22.23	22.60	22.12	24.00
		MID	Q16	22.35	22.68	22.29	24.00
		HIGH	Q16	22.04	22.54	22.13	24.00
	8	LOW	Q16	21.13	21.23	21.52	23.00
		MID	Q16	21.27	21.22	21.30	23.00
		HIGH	Q16	21.36	21.19	21.39	23.00
	15	LOW	Q16	21.12	21.31	21.43	23.00
3	1	LOW	64QAM	21.09	21.69	21.21	23.00
		MID	64QAM	21.24	21.71	21.33	23.00
		HIGH	64QAM	21.25	21.61	21.35	23.00
	8	LOW	64QAM	20.24	20.29	20.56	22.00
		MID	64QAM	20.45	20.38	20.41	22.00
		HIGH	64QAM	20.11	20.32	20.44	22.00
	15	LOW	64QAM	20.24	20.31	20.37	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	QPSK	23.32	23.27	23.31	25.00
		MID	QPSK	23.40	23.24	**23.44**	25.00
		HIGH	QPSK	23.07	23.13	23.31	25.00
	12	LOW	QPSK	22.12	22.15	22.51	24.00
		MID	QPSK	22.34	22.24	22.27	24.00
		HIGH	QPSK	22.35	22.27	22.19	24.00
	25	LOW	QPSK	22.05	22.03	22.34	24.00
5	1	LOW	Q16	22.00	22.48	22.26	24.00
		MID	Q16	22.25	22.75	22.26	24.00
		HIGH	Q16	22.13	22.60	22.17	24.00
	12	LOW	Q16	21.22	21.13	21.38	23.00
		MID	Q16	21.20	21.14	21.27	23.00
		HIGH	Q16	21.28	21.25	21.33	23.00
	25	LOW	Q16	21.27	21.12	21.39	23.00
5	1	LOW	64QAM	21.15	21.43	21.00	23.00
		MID	64QAM	21.38	21.70	21.20	23.00
		HIGH	64QAM	21.03	21.47	21.14	23.00
	12	LOW	64QAM	20.09	20.19	20.53	22.00
		MID	64QAM	20.25	20.11	20.39	22.00
		HIGH	64QAM	20.13	20.12	20.52	22.00
	25	LOW	64QAM	20.10	20.14	20.36	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	QPSK	23.19	23.16	23.16	25.00
		MID	QPSK	**23.38**	23.36	23.33	25.00
		HIGH	QPSK	23.20	23.24	23.26	25.00
	25	LOW	QPSK	22.16	22.20	22.36	24.00
		MID	QPSK	22.37	22.25	22.25	24.00
		HIGH	QPSK	22.23	22.15	22.29	24.00
	50	LOW	QPSK	22.16	22.18	22.34	24.00
10	1	LOW	Q16	22.08	22.54	22.13	24.00
		MID	Q16	22.31	**22.69**	22.33	24.00
		HIGH	Q16	22.11	22.60	22.25	24.00
	25	LOW	Q16	21.09	21.22	21.46	23.00
		MID	Q16	21.34	21.25	21.36	23.00
		HIGH	Q16	21.23	21.18	21.46	23.00
	50	LOW	Q16	21.15	21.19	21.43	23.00
10	1	LOW	64QAM	21.05	21.52	21.09	23.00
		MID	64QAM	21.30	**21.82**	21.20	23.00
		HIGH	64QAM	21.13	21.54	21.20	23.00
	25	LOW	64QAM	20.04	20.15	20.50	22.00
		MID	64QAM	20.35	20.31	20.29	22.00
		HIGH	64QAM	20.19	20.30	20.40	22.00
	50	LOW	64QAM	20.22	20.06	20.45	22.00

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Bandwidth(MHz)	RB Size	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.25	23.21	23.13	25.00
		MID	QPSK	**23.46**	23.40	23.42	25.00
		HIGH	QPSK	23.30	23.20	23.17	25.00
	3	LOW	QPSK	23.37	23.31	23.28	25.00
		MID	QPSK	23.38	23.34	23.34	25.00
		HIGH	QPSK	23.41	23.26	23.32	25.00
	6	LOW	QPSK	22.33	22.30	22.24	24.00
1.4	1	LOW	Q16	22.34	22.54	22.20	24.00
		MID	Q16	22.62	22.68	22.38	24.00
		HIGH	Q16	22.36	22.52	22.26	24.00
	3	LOW	Q16	22.35	22.42	22.45	24.00
		MID	Q16	22.39	22.43	22.47	24.00
		HIGH	Q16	22.38	22.48	22.42	24.00
	6	LOW	Q16	21.48	21.12	21.37	23.00
1.4	1	LOW	64QAM	21.41	21.59	21.05	23.00
		MID	64QAM	21.59	21.78	21.24	23.00
		HIGH	64QAM	21.34	21.54	21.33	23.00
	3	LOW	64QAM	21.47	21.45	21.56	23.00
		MID	64QAM	21.42	21.51	21.45	23.00
		HIGH	64QAM	21.36	21.44	21.44	23.00
	6	LOW	64QAM	20.55	20.05	20.51	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	QPSK	23.28	23.16	23.16	25.00
		MID	QPSK	23.24	**23.40**	23.36	25.00
		HIGH	QPSK	23.31	23.19	23.13	25.00
	8	LOW	QPSK	22.21	22.23	22.37	24.00
		MID	QPSK	22.40	22.30	22.32	24.00
		HIGH	QPSK	22.37	22.20	22.43	24.00
	15	LOW	QPSK	22.31	22.17	22.30	24.00
3	1	LOW	Q16	22.23	22.60	22.12	24.00
		MID	Q16	22.35	22.68	22.29	24.00
		HIGH	Q16	22.04	22.54	22.13	24.00
	8	LOW	Q16	21.13	21.23	21.52	23.00
		MID	Q16	21.27	21.22	21.30	23.00
		HIGH	Q16	21.36	21.19	21.39	23.00
	15	LOW	Q16	21.12	21.31	21.43	23.00
3	1	LOW	64QAM	21.09	21.69	21.21	23.00
		MID	64QAM	21.24	21.71	21.33	23.00
		HIGH	64QAM	21.25	21.61	21.35	23.00
	8	LOW	64QAM	20.24	20.29	20.56	22.00
		MID	64QAM	20.45	20.38	20.41	22.00
		HIGH	64QAM	20.11	20.32	20.44	22.00
	15	LOW	64QAM	20.24	20.31	20.37	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	QPSK	23.32	23.27	23.31	25.00
		MID	QPSK	23.40	23.24	**23.44**	25.00
		HIGH	QPSK	23.07	23.13	23.31	25.00
	12	LOW	QPSK	22.12	22.15	22.51	24.00
		MID	QPSK	22.34	22.24	22.27	24.00
		HIGH	QPSK	22.35	22.27	22.19	24.00
	25	LOW	QPSK	22.05	22.03	22.34	24.00
5	1	LOW	Q16	22.00	22.48	22.26	24.00
		MID	Q16	22.25	22.75	22.26	24.00
		HIGH	Q16	22.13	22.60	22.17	24.00
	12	LOW	Q16	21.22	21.13	21.38	23.00
		MID	Q16	21.20	21.14	21.27	23.00
		HIGH	Q16	21.28	21.25	21.33	23.00
	25	LOW	Q16	21.27	21.12	21.39	23.00
5	1	LOW	64QAM	21.15	21.43	21.00	23.00
		MID	64QAM	21.38	21.70	21.20	23.00
		HIGH	64QAM	21.03	21.47	21.14	23.00
	12	LOW	64QAM	20.09	20.19	20.53	22.00
		MID	64QAM	20.25	20.11	20.39	22.00
		HIGH	64QAM	20.13	20.12	20.52	22.00
	25	LOW	64QAM	20.10	20.14	20.36	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	QPSK	23.19	23.16	23.16	25.00
		MID	QPSK	**23.38**	23.36	23.33	25.00
		HIGH	QPSK	23.20	23.24	23.26	25.00
	25	LOW	QPSK	22.16	22.20	22.36	24.00
		MID	QPSK	22.37	22.25	22.25	24.00
		HIGH	QPSK	22.23	22.15	22.29	24.00
	50	LOW	QPSK	22.16	22.18	22.34	24.00
10	1	LOW	Q16	22.08	22.54	22.13	24.00
		MID	Q16	22.31	**22.69**	22.33	24.00
		HIGH	Q16	22.11	22.60	22.25	24.00
	25	LOW	Q16	21.09	21.22	21.46	23.00
		MID	Q16	21.34	21.25	21.36	23.00
		HIGH	Q16	21.23	21.18	21.46	23.00
	50	LOW	Q16	21.15	21.19	21.43	23.00
10	1	LOW	64QAM	21.05	21.52	21.09	23.00
		MID	64QAM	21.30	**21.82**	21.20	23.00
		HIGH	64QAM	21.13	21.54	21.20	23.00
	25	LOW	64QAM	20.04	20.15	20.50	22.00
		MID	64QAM	20.35	20.31	20.29	22.00
		HIGH	64QAM	20.19	20.30	20.40	22.00
	50	LOW	64QAM	20.22	20.06	20.45	22.00

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Bandwidth(MHz)	RB Size	RB offest	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.25	23.21	23.13	25.00
		MID	QPSK	**23.46**	23.40	23.42	25.00
		HIGH	QPSK	23.30	23.20	23.17	25.00
	3	LOW	QPSK	23.37	23.31	23.28	25.00
		MID	QPSK	23.38	23.34	23.34	25.00
		HIGH	QPSK	23.41	23.26	23.32	25.00
	6	LOW	QPSK	22.33	22.30	22.24	24.00
1.4	1	LOW	Q16	22.34	22.54	22.20	24.00
		MID	Q16	22.62	22.68	22.38	24.00
		HIGH	Q16	22.36	22.52	22.26	24.00
	3	LOW	Q16	22.35	22.42	22.45	24.00
		MID	Q16	22.39	22.43	22.47	24.00
		HIGH	Q16	22.38	22.48	22.42	24.00
	6	LOW	Q16	21.48	21.12	21.37	23.00
1.4	1	LOW	64QAM	21.41	21.59	21.05	23.00
		MID	64QAM	21.59	21.78	21.24	23.00
		HIGH	64QAM	21.34	21.54	21.33	23.00
	3	LOW	64QAM	21.47	21.45	21.56	23.00
		MID	64QAM	21.42	21.51	21.45	23.00
		HIGH	64QAM	21.36	21.44	21.44	23.00
	6	LOW	64QAM	20.55	20.05	20.51	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	QPSK	23.28	23.16	23.16	25.00
		MID	QPSK	23.24	**23.40**	23.36	25.00
		HIGH	QPSK	23.31	23.19	23.13	25.00
	8	LOW	QPSK	22.21	22.23	22.37	24.00
		MID	QPSK	22.40	22.30	22.32	24.00
		HIGH	QPSK	22.37	22.20	22.43	24.00
	15	LOW	QPSK	22.31	22.17	22.30	24.00
3	1	LOW	Q16	22.23	22.60	22.12	24.00
		MID	Q16	22.35	22.68	22.29	24.00
		HIGH	Q16	22.04	22.54	22.13	24.00
	8	LOW	Q16	21.13	21.23	21.52	23.00
		MID	Q16	21.27	21.22	21.30	23.00
		HIGH	Q16	21.36	21.19	21.39	23.00
	15	LOW	Q16	21.12	21.31	21.43	23.00
3	1	LOW	64QAM	21.09	21.69	21.21	23.00
		MID	64QAM	21.24	21.71	21.33	23.00
		HIGH	64QAM	21.25	21.61	21.35	23.00
	8	LOW	64QAM	20.24	20.29	20.56	22.00
		MID	64QAM	20.45	20.38	20.41	22.00
		HIGH	64QAM	20.11	20.32	20.44	22.00
	15	LOW	64QAM	20.24	20.31	20.37	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	QPSK	23.32	23.27	23.31	25.00
		MID	QPSK	23.40	23.24	**23.44**	25.00
		HIGH	QPSK	23.07	23.13	23.31	25.00
	12	LOW	QPSK	22.12	22.15	22.51	24.00
		MID	QPSK	22.34	22.24	22.27	24.00
		HIGH	QPSK	22.35	22.27	22.19	24.00
	25	LOW	QPSK	22.05	22.03	22.34	24.00
5	1	LOW	Q16	22.00	22.48	22.26	24.00
		MID	Q16	22.25	22.75	22.26	24.00
		HIGH	Q16	22.13	22.60	22.17	24.00
	12	LOW	Q16	21.22	21.13	21.38	23.00
		MID	Q16	21.20	21.14	21.27	23.00
		HIGH	Q16	21.28	21.25	21.33	23.00
	25	LOW	Q16	21.27	21.12	21.39	23.00
5	1	LOW	64QAM	21.15	21.43	21.00	23.00
		MID	64QAM	21.38	21.70	21.20	23.00
		HIGH	64QAM	21.03	21.47	21.14	23.00
	12	LOW	64QAM	20.09	20.19	20.53	22.00
		MID	64QAM	20.25	20.11	20.39	22.00
		HIGH	64QAM	20.13	20.12	20.52	22.00
	25	LOW	64QAM	20.10	20.14	20.36	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	QPSK	23.19	23.16	23.16	25.00
		MID	QPSK	**23.38**	23.36	23.33	25.00
		HIGH	QPSK	23.20	23.24	23.26	25.00
	25	LOW	QPSK	22.16	22.20	22.36	24.00
		MID	QPSK	22.37	22.25	22.25	24.00
		HIGH	QPSK	22.23	22.15	22.29	24.00
	50	LOW	QPSK	22.16	22.18	22.34	24.00
10	1	LOW	Q16	22.08	22.54	22.13	24.00
		MID	Q16	22.31	**22.69**	22.33	24.00
		HIGH	Q16	22.11	22.60	22.25	24.00
	25	LOW	Q16	21.09	21.22	21.46	23.00
		MID	Q16	21.34	21.25	21.36	23.00
		HIGH	Q16	21.23	21.18	21.46	23.00
	50	LOW	Q16	21.15	21.19	21.43	23.00
10	1	LOW	64QAM	21.05	21.52	21.09	23.00
		MID	64QAM	21.30	**21.82**	21.20	23.00
		HIGH	64QAM	21.13	21.54	21.20	23.00
	25	LOW	64QAM	20.04	20.15	20.50	22.00
		MID	64QAM	20.35	20.31	20.29	22.00
		HIGH	64QAM	20.19	20.30	20.40	22.00
	50	LOW	64QAM	20.22	20.06	20.45	22.00

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LTE B17-Full Power -Ant.13

Bandwidth (MHz)	RB Size	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	QPSK	23.43	23.42	23.43	24.50
		MID	QPSK	23.66	23.74	23.52	24.50
		HIGH	QPSK	23.43	23.30	23.41	24.50
	12	LOW	QPSK	22.61	22.65	22.58	23.50
		MID	QPSK	22.60	22.46	22.37	23.50
		HIGH	QPSK	22.32	22.53	22.37	23.50
	25	LOW	QPSK	22.50	22.60	22.47	23.50
5	1	LOW	Q16	22.46	22.25	22.71	23.50
		MID	Q16	22.64	22.57	22.70	23.50
		HIGH	Q16	22.43	22.40	22.79	23.50
	12	LOW	Q16	21.50	21.43	21.44	22.50
		MID	Q16	21.69	21.53	21.65	22.50
		HIGH	Q16	21.71	21.56	21.42	22.50
	25	LOW	Q16	21.72	21.54	21.41	22.50
5	1	LOW	64QAM	21.55	21.26	21.55	22.50
		MID	64QAM	21.68	21.71	21.52	22.50
		HIGH	64QAM	21.42	21.20	21.85	22.50
	12	LOW	64QAM	20.58	20.47	20.69	21.50
		MID	64QAM	20.46	20.51	20.61	21.50
		HIGH	64QAM	20.52	20.40	20.35	21.50
	25	LOW	64QAM	20.63	20.63	20.67	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	QPSK	23.43	23.45	23.37	24.50
		MID	QPSK	**23.65**	23.60	23.63	24.50
		HIGH	QPSK	23.48	23.42	23.48	24.50
	25	LOW	QPSK	22.50	22.52	22.55	23.50
		MID	QPSK	22.53	22.52	22.52	23.50
		HIGH	QPSK	22.46	22.52	22.49	23.50
	50	LOW	QPSK	22.50	22.52	22.52	23.50
10	1	LOW	Q16	22.41	22.35	22.70	23.50
		MID	Q16	22.56	22.56	**22.99**	23.50
		HIGH	Q16	22.46	22.35	22.81	23.50
	25	LOW	Q16	21.59	21.55	21.57	22.50
		MID	Q16	21.57	21.52	21.53	22.50
		HIGH	Q16	21.61	21.50	21.48	22.50
	50	LOW	Q16	21.57	21.49	21.53	22.50
10	1	LOW	64QAM	21.33	21.28	21.66	22.50
		MID	64QAM	21.42	21.43	**21.96**	22.50
		HIGH	64QAM	21.37	21.47	21.87	22.50
	25	LOW	64QAM	20.60	20.48	20.62	21.50
		MID	64QAM	20.47	20.54	20.62	21.50
		HIGH	64QAM	20.57	20.60	20.62	21.50
	50	LOW	64QAM	20.52	20.37	20.59	21.50

LTE B17-DSI 2 -Ant.13

Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	0	QPSK	22.37	22.29	22.25	23.50
		MID	12	QPSK	22.49	22.68	22.46	23.50
		HIGH	24	QPSK	22.38	22.21	22.33	23.50
	12	LOW	0	QPSK	22.32	22.52	22.51	23.50
		MID	7	QPSK	22.38	22.15	22.07	23.50
		HIGH	13	QPSK	22.24	22.40	22.21	23.50
	25	LOW	0	QPSK	22.38	22.52	22.18	23.50
5	1	LOW	0	Q16	22.18	22.15	22.47	23.50
		MID	12	Q16	22.35	22.47	22.50	23.50
		HIGH	24	Q16	22.20	22.25	22.57	23.50
	12	LOW	0	Q16	21.39	21.31	21.27	22.50
		MID	7	Q16	21.49	21.40	21.50	22.50
		HIGH	13	Q16	21.47	21.32	21.11	22.50
	25	LOW	0	Q16	21.47	21.37	21.13	22.50
5	1	LOW	0	64QAM	21.37	21.05	21.30	22.50
		MID	12	64QAM	21.58	21.48	21.28	22.50
		HIGH	24	64QAM	21.26	21.14	21.70	22.50
	12	LOW	0	64QAM	20.49	20.34	20.48	21.50
		MID	7	64QAM	20.17	20.31	20.35	21.50
		HIGH	13	64QAM	20.42	20.15	20.06	21.50
	25	LOW	0	64QAM	20.51	20.44	20.42	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	0	QPSK	22.36	22.43	22.24	23.50
		MID	25	QPSK	**22.61**	22.52	22.48	23.50
		HIGH	49	QPSK	22.35	22.34	22.34	23.50
	25	LOW	0	QPSK	22.29	22.28	22.37	23.50
		MID	12	QPSK	22.33	22.37	22.45	23.50
		HIGH	25	QPSK	22.22	22.32	22.20	23.50
	50	LOW	0	QPSK	22.26	22.26	22.39	23.50
10	1	LOW	0	Q16	22.14	22.11	22.59	23.50
		MID	25	Q16	22.37	22.38	**22.72**	23.50
		HIGH	49	Q16	22.17	22.11	22.60	23.50
	25	LOW	0	Q16	21.47	21.43	21.43	22.50
		MID	12	Q16	21.30	21.28	21.44	22.50
		HIGH	25	Q16	21.49	21.28	21.19	22.50
	50	LOW	0	Q16	21.32	21.30	21.22	22.50
10	1	LOW	0	64QAM	21.07	21.21	21.48	22.50
		MID	25	64QAM	21.24	21.26	**21.76**	22.50
		HIGH	49	64QAM	21.08	21.40	21.75	22.50
	25	LOW	0	64QAM	20.40	20.26	20.52	21.50
		MID	12	64QAM	20.37	20.33	20.47	21.50
		HIGH	25	64QAM	20.47	20.39	20.45	21.50
	50	LOW	0	64QAM	20.33	20.14	20.32	21.50

LTE B17-DSI 3 -Ant.13

Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	0	QPSK	22.37	22.29	22.25	23.50
		MID	12	QPSK	22.49	22.68	22.46	23.50
		HIGH	24	QPSK	22.38	22.21	22.33	23.50
	12	LOW	0	QPSK	22.32	22.52	22.51	23.50
		MID	7	QPSK	22.38	22.15	22.07	23.50
		HIGH	13	QPSK	22.24	22.40	22.21	23.50
	25	LOW	0	QPSK	22.38	22.52	22.18	23.50
5	1	LOW	0	Q16	22.18	22.15	22.47	23.50
		MID	12	Q16	22.35	22.47	22.50	23.50
		HIGH	24	Q16	22.20	22.25	22.57	23.50
	12	LOW	0	Q16	21.39	21.31	21.27	22.50
		MID	7	Q16	21.49	21.40	21.50	22.50
		HIGH	13	Q16	21.47	21.32	21.11	22.50
	25	LOW	0	Q16	21.47	21.37	21.13	22.50
5	1	LOW	0	64QAM	21.37	21.05	21.30	22.50
		MID	12	64QAM	21.58	21.48	21.28	22.50
		HIGH	24	64QAM	21.26	21.14	21.70	22.50
	12	LOW	0	64QAM	20.49	20.34	20.48	21.50
		MID	7	64QAM	20.17	20.31	20.35	21.50
		HIGH	13	64QAM	20.42	20.15	20.06	21.50
	25	LOW	0	64QAM	20.51	20.44	20.42	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	0	QPSK	22.36	22.43	22.24	23.50
		MID	25	QPSK	**22.61**	22.52	22.48	23.50
		HIGH	49	QPSK	22.35	22.34	22.34	23.50
	25	LOW	0	QPSK	22.29	22.28	22.37	23.50
		MID	12	QPSK	22.33	22.37	22.45	23.50
		HIGH	25	QPSK	22.22	22.32	22.20	23.50
	50	LOW	0	QPSK	22.26	22.26	22.39	23.50
10	1	LOW	0	Q16	22.14	22.11	22.59	23.50
		MID	25	Q16	22.37	22.38	**22.72**	23.50
		HIGH	49	Q16	22.17	22.11	22.60	23.50
	25	LOW	0	Q16	21.47	21.43	21.43	22.50
		MID	12	Q16	21.30	21.28	21.44	22.50
		HIGH	25	Q16	21.49	21.28	21.19	22.50
	50	LOW	0	Q16	21.32	21.30	21.22	22.50
10	1	LOW	0	64QAM	21.07	21.21	21.48	22.50
		MID	25	64QAM	21.24	21.26	**21.76**	22.50
		HIGH	49	64QAM	21.08	21.40	21.75	22.50
	25	LOW	0	64QAM	20.40	20.26	20.52	21.50
		MID	12	64QAM	20.37	20.33	20.47	21.50
		HIGH	25	64QAM	20.47	20.39	20.45	21.50
	50	LOW	0	64QAM	20.33	20.14	20.32	21.50

LTE B17-DSI 4 -Ant.13

Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	0	QPSK	23.43	23.42	23.43	24.50
		MID	12	QPSK	23.66	23.74	23.52	24.50
		HIGH	24	QPSK	23.43	23.30	23.41	24.50
	12	LOW	0	QPSK	22.61	22.65	22.58	23.50
		MID	7	QPSK	22.60	22.46	22.37	23.50
		HIGH	13	QPSK	22.32	22.53	22.37	23.50
	25	LOW	0	QPSK	22.50	22.60	22.47	23.50
5	1	LOW	0	Q16	22.46	22.25	22.71	23.50
		MID	12	Q16	22.64	22.57	22.70	23.50
		HIGH	24	Q16	22.43	22.40	22.79	23.50
	12	LOW	0	Q16	21.50	21.43	21.44	22.50
		MID	7	Q16	21.69	21.53	21.65	22.50
		HIGH	13	Q16	21.71	21.56	21.42	22.50
	25	LOW	0	Q16	21.72	21.54	21.41	22.50
5	1	LOW	0	64QAM	21.55	21.26	21.55	22.50
		MID	12	64QAM	21.68	21.71	21.52	22.50
		HIGH	24	64QAM	21.42	21.20	21.85	22.50
	12	LOW	0	64QAM	20.58	20.47	20.69	21.50
		MID	7	64QAM	20.46	20.51	20.61	21.50
		HIGH	13	64QAM	20.52	20.40	20.35	21.50
	25	LOW	0	64QAM	20.63	20.63	20.67	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	0	QPSK	23.43	23.45	23.37	24.50
		MID	25	QPSK	**23.65**	23.60	23.63	24.50
		HIGH	49	QPSK	23.48	23.42	23.48	24.50
	25	LOW	0	QPSK	22.50	22.52	22.55	23.50
		MID	12	QPSK	22.53	22.52	22.52	23.50
		HIGH	25	QPSK	22.46	22.52	22.49	23.50
	50	LOW	0	QPSK	22.50	22.52	22.52	23.50
10	1	LOW	0	Q16	22.41	22.35	22.70	23.50
		MID	25	Q16	22.56	22.56	**22.99**	23.50
		HIGH	49	Q16	22.46	22.35	22.81	23.50
	25	LOW	0	Q16	21.59	21.55	21.57	22.50
		MID	12	Q16	21.57	21.52	21.53	22.50
		HIGH	25	Q16	21.61	21.50	21.48	22.50
	50	LOW	0	Q16	21.57	21.49	21.53	22.50
10	1	LOW	0	64QAM	21.33	21.28	21.66	22.50
		MID	25	64QAM	21.42	21.43	**21.96**	22.50
		HIGH	49	64QAM	21.37	21.47	21.87	22.50
	25	LOW	0	64QAM	20.60	20.48	20.62	21.50
		MID	12	64QAM	20.47	20.54	20.62	21.50
		HIGH	25	64QAM	20.57	20.60	20.62	21.50
	50	LOW	0	64QAM	20.52	20.37	20.59	21.50

LTE B17-DSI 5 -Ant.13

Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	0	QPSK	23.43	23.42	23.43	24.50
		MID	12	QPSK	23.66	23.74	23.52	24.50
		HIGH	24	QPSK	23.43	23.30	23.41	24.50
	12	LOW	0	QPSK	22.61	22.65	22.58	23.50
		MID	7	QPSK	22.60	22.46	22.37	23.50
		HIGH	13	QPSK	22.32	22.53	22.37	23.50
	25	LOW	0	QPSK	22.50	22.60	22.47	23.50
5	1	LOW	0	Q16	22.46	22.25	22.71	23.50
		MID	12	Q16	22.64	22.57	22.70	23.50
		HIGH	24	Q16	22.43	22.40	22.79	23.50
	12	LOW	0	Q16	21.50	21.43	21.44	22.50
		MID	7	Q16	21.69	21.53	21.65	22.50
		HIGH	13	Q16	21.71	21.56	21.42	22.50
	25	LOW	0	Q16	21.72	21.54	21.41	22.50
5	1	LOW	0	64QAM	21.55	21.26	21.55	22.50
		MID	12	64QAM	21.68	21.71	21.52	22.50
		HIGH	24	64QAM	21.42	21.20	21.85	22.50
	12	LOW	0	64QAM	20.58	20.47	20.69	21.50
		MID	7	64QAM	20.46	20.51	20.61	21.50
		HIGH	13	64QAM	20.52	20.40	20.35	21.50
	25	LOW	0	64QAM	20.63	20.63	20.67	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	0	QPSK	23.43	23.45	23.37	24.50
		MID	25	QPSK	**23.65**	23.60	23.63	24.50
		HIGH	49	QPSK	23.48	23.42	23.48	24.50
	25	LOW	0	QPSK	22.50	22.52	22.55	23.50
		MID	12	QPSK	22.53	22.52	22.52	23.50
		HIGH	25	QPSK	22.46	22.52	22.49	23.50
	50	LOW	0	QPSK	22.50	22.52	22.52	23.50
10	1	LOW	0	Q16	22.41	22.35	22.70	23.50
		MID	25	Q16	22.56	22.56	**22.99**	23.50
		HIGH	49	Q16	22.46	22.35	22.81	23.50
	25	LOW	0	Q16	21.59	21.55	21.57	22.50
		MID	12	Q16	21.57	21.52	21.53	22.50
		HIGH	25	Q16	21.61	21.50	21.48	22.50
	50	LOW	0	Q16	21.57	21.49	21.53	22.50
10	1	LOW	0	64QAM	21.33	21.28	21.66	22.50
		MID	25	64QAM	21.42	21.43	**21.96**	22.50
		HIGH	49	64QAM	21.37	21.47	21.87	22.50
	25	LOW	0	64QAM	20.60	20.48	20.62	21.50
		MID	12	64QAM	20.47	20.54	20.62	21.50
		HIGH	25	64QAM	20.57	20.60	20.62	21.50
	50	LOW	0	64QAM	20.52	20.37	20.59	21.50

LTE B17-DSI 6 -Ant.13

Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	0	QPSK	23.43	23.42	23.43	24.50
		MID	12	QPSK	23.66	23.74	23.52	24.50
		HIGH	24	QPSK	23.43	23.30	23.41	24.50
	12	LOW	0	QPSK	22.61	22.65	22.58	23.50
		MID	7	QPSK	22.60	22.46	22.37	23.50
		HIGH	13	QPSK	22.32	22.53	22.37	23.50
	25	LOW	0	QPSK	22.50	22.60	22.47	23.50
5	1	LOW	0	Q16	22.46	22.25	22.71	23.50
		MID	12	Q16	22.64	22.57	22.70	23.50
		HIGH	24	Q16	22.43	22.40	22.79	23.50
	12	LOW	0	Q16	21.50	21.43	21.44	22.50
		MID	7	Q16	21.69	21.53	21.65	22.50
		HIGH	13	Q16	21.71	21.56	21.42	22.50
	25	LOW	0	Q16	21.72	21.54	21.41	22.50
5	1	LOW	0	64QAM	21.55	21.26	21.55	22.50
		MID	12	64QAM	21.68	21.71	21.52	22.50
		HIGH	24	64QAM	21.42	21.20	21.85	22.50
	12	LOW	0	64QAM	20.58	20.47	20.69	21.50
		MID	7	64QAM	20.46	20.51	20.61	21.50
		HIGH	13	64QAM	20.52	20.40	20.35	21.50
	25	LOW	0	64QAM	20.63	20.63	20.67	21.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	0	QPSK	23.43	23.45	23.37	24.50
		MID	25	QPSK	**23.65**	23.60	23.63	24.50
		HIGH	49	QPSK	23.48	23.42	23.48	24.50
	25	LOW	0	QPSK	22.50	22.52	22.55	23.50
		MID	12	QPSK	22.53	22.52	22.52	23.50
		HIGH	25	QPSK	22.46	22.52	22.49	23.50
	50	LOW	0	QPSK	22.50	22.52	22.52	23.50
10	1	LOW	0	Q16	22.41	22.35	22.70	23.50
		MID	25	Q16	22.56	22.56	**22.99**	23.50
		HIGH	49	Q16	22.46	22.35	22.81	23.50
	25	LOW	0	Q16	21.59	21.55	21.57	22.50
		MID	12	Q16	21.57	21.52	21.53	22.50
		HIGH	25	Q16	21.61	21.50	21.48	22.50
	50	LOW	0	Q16	21.57	21.49	21.53	22.50
10	1	LOW	0	64QAM	21.33	21.28	21.66	22.50
		MID	25	64QAM	21.42	21.43	**21.96**	22.50
		HIGH	49	64QAM	21.37	21.47	21.87	22.50
	25	LOW	0	64QAM	20.60	20.48	20.62	21.50
		MID	12	64QAM	20.47	20.54	20.62	21.50
		HIGH	25	64QAM	20.57	20.60	20.62	21.50
	50	LOW	0	64QAM	20.52	20.37	20.59	21.50

LTE B17-DSI 7 -Ant.13

Bandwidth (MHz)	RB Size	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	QPSK	23.43	23.42	23.43	24.50
		MID	QPSK	23.66	23.74	23.52	24.50
		HIGH	QPSK	23.43	23.30	23.41	24.50
	12	LOW	QPSK	22.61	22.65	22.58	23.50
		MID	QPSK	22.60	22.46	22.37	23.50
		HIGH	QPSK	22.32	22.53	22.37	23.50
	25	LOW	QPSK	22.50	22.60	22.47	23.50
5	1	LOW	Q16	22.46	22.25	22.71	23.50
		MID	Q16	22.64	22.57	22.70	23.50
		HIGH	Q16	22.43	22.40	22.79	23.50
	12	LOW	Q16	21.50	21.43	21.44	22.50
		MID	Q16	21.69	21.53	21.65	22.50
		HIGH	Q16	21.71	21.56	21.42	22.50
	25	LOW	Q16	21.72	21.54	21.41	22.50
5	1	LOW	64QAM	21.55	21.26	21.55	22.50
		MID	64QAM	21.68	21.71	21.52	22.50
		HIGH	64QAM	21.42	21.20	21.85	22.50
	12	LOW	64QAM	20.58	20.47	20.69	21.50
		MID	64QAM	20.46	20.51	20.61	21.50
		HIGH	64QAM	20.52	20.40	20.35	21.50
	25	LOW	64QAM	20.63	20.63	20.67	21.50
Bandwidth (MHz)	RB Size	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	QPSK	23.43	23.45	23.37	24.50
		MID	QPSK	**23.65**	23.60	23.63	24.50
		HIGH	QPSK	23.48	23.42	23.48	24.50
	25	LOW	QPSK	22.50	22.52	22.55	23.50
		MID	QPSK	22.53	22.52	22.52	23.50
		HIGH	QPSK	22.46	22.52	22.49	23.50
	50	LOW	QPSK	22.50	22.52	22.52	23.50
10	1	LOW	Q16	22.41	22.35	22.70	23.50
		MID	Q16	22.56	22.56	**22.99**	23.50
		HIGH	Q16	22.46	22.35	22.81	23.50
	25	LOW	Q16	21.59	21.55	21.57	22.50
		MID	Q16	21.57	21.52	21.53	22.50
		HIGH	Q16	21.61	21.50	21.48	22.50
	50	LOW	Q16	21.57	21.49	21.53	22.50
10	1	LOW	64QAM	21.33	21.28	21.66	22.50
		MID	64QAM	21.42	21.43	**21.96**	22.50
		HIGH	64QAM	21.37	21.47	21.87	22.50
	25	LOW	64QAM	20.60	20.48	20.62	21.50
		MID	64QAM	20.47	20.54	20.62	21.50
		HIGH	64QAM	20.57	20.60	20.62	21.50
	50	LOW	64QAM	20.52	20.37	20.59	21.50

LTE B17-Full Power-Ant.41

Bandwidth(MHz)	RB Size	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	QPSK	23.07	23.00	23.29	25.00
		MID	QPSK	**23.43**	23.36	23.15	25.00
		HIGH	QPSK	23.06	23.19	23.26	25.00
	12	LOW	QPSK	22.33	22.17	22.38	24.00
		MID	QPSK	22.35	22.09	22.13	24.00
		HIGH	QPSK	22.03	22.22	22.15	24.00
	25	LOW	QPSK	22.19	22.12	22.27	24.00
5	1	LOW	Q16	22.32	22.10	22.48	24.00
		MID	Q16	22.30	22.38	22.76	24.00
		HIGH	Q16	22.27	22.28	22.57	24.00
	12	LOW	Q16	21.20	21.03	21.28	23.00
		MID	Q16	21.34	21.26	21.37	23.00
		HIGH	Q16	21.44	21.44	21.04	23.00
	25	LOW	Q16	21.33	21.09	21.28	23.00
5	1	LOW	64QAM	21.27	21.13	21.25	23.00
		MID	64QAM	21.26	21.57	21.76	23.00
		HIGH	64QAM	21.00	21.11	21.65	23.00
	12	LOW	64QAM	20.25	20.23	20.50	22.00
		MID	64QAM	20.26	20.40	20.28	22.00
		HIGH	64QAM	20.28	20.27	20.04	22.00
	25	LOW	64QAM	20.26	20.44	20.40	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	QPSK	23.12	23.10	23.12	25.00
		MID	QPSK	**23.53**	23.23	23.28	25.00
		HIGH	QPSK	23.03	23.03	23.15	25.00
	25	LOW	QPSK	22.18	22.03	22.23	24.00
		MID	QPSK	22.14	22.38	22.30	24.00
		HIGH	QPSK	22.09	22.21	22.10	24.00
	50	LOW	QPSK	22.35	22.12	22.39	24.00
10	1	LOW	Q16	22.28	22.07	22.43	24.00
		MID	Q16	22.35	22.40	**22.75**	24.00
		HIGH	Q16	22.22	22.07	22.54	24.00
	25	LOW	Q16	21.42	21.36	21.24	23.00
		MID	Q16	21.10	21.26	21.27	23.00
		HIGH	Q16	21.27	21.36	21.16	23.00
	50	LOW	Q16	21.21	21.28	21.21	23.00
10	1	LOW	64QAM	21.02	21.05	21.52	23.00
		MID	64QAM	21.01	21.13	21.58	23.00
		HIGH	64QAM	21.16	21.21	**21.63**	23.00
	25	LOW	64QAM	20.22	20.24	20.42	22.00
		MID	64QAM	20.04	20.41	20.45	22.00
		HIGH	64QAM	20.09	20.39	20.45	22.00
	50	LOW	64QAM	20.37	20.24	20.48	22.00

LTE B17-DSI 2 -Ant.41

Bandwidth(MHz)	RB Size	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	QPSK	23.07	23.00	23.29	25.00
		MID	QPSK	**23.43**	23.36	23.15	25.00
		HIGH	QPSK	23.06	23.19	23.26	25.00
	12	LOW	QPSK	22.33	22.17	22.38	24.00
		MID	QPSK	22.35	22.09	22.13	24.00
		HIGH	QPSK	22.03	22.22	22.15	24.00
	25	LOW	QPSK	22.19	22.12	22.27	24.00
5	1	LOW	Q16	22.32	22.10	22.48	24.00
		MID	Q16	22.30	22.38	22.76	24.00
		HIGH	Q16	22.27	22.28	22.57	24.00
	12	LOW	Q16	21.20	21.03	21.28	23.00
		MID	Q16	21.34	21.26	21.37	23.00
		HIGH	Q16	21.44	21.44	21.04	23.00
	25	LOW	Q16	21.33	21.09	21.28	23.00
5	1	LOW	64QAM	21.27	21.13	21.25	23.00
		MID	64QAM	21.26	21.57	21.76	23.00
		HIGH	64QAM	21.00	21.11	21.65	23.00
	12	LOW	64QAM	20.25	20.23	20.50	22.00
		MID	64QAM	20.26	20.40	20.28	22.00
		HIGH	64QAM	20.28	20.27	20.04	22.00
	25	LOW	64QAM	20.26	20.44	20.40	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	QPSK	23.12	23.10	23.12	25.00
		MID	QPSK	**23.53**	23.23	23.28	25.00
		HIGH	QPSK	23.03	23.03	23.15	25.00
	25	LOW	QPSK	22.18	22.03	22.23	24.00
		MID	QPSK	22.14	22.38	22.30	24.00
		HIGH	QPSK	22.09	22.21	22.10	24.00
	50	LOW	QPSK	22.35	22.12	22.39	24.00
10	1	LOW	Q16	22.28	22.07	22.43	24.00
		MID	Q16	22.35	22.40	22.75	24.00
		HIGH	Q16	22.22	22.07	22.54	24.00
	25	LOW	Q16	21.42	21.36	21.24	23.00
		MID	Q16	21.10	21.26	21.27	23.00
		HIGH	Q16	21.27	21.36	21.16	23.00
	50	LOW	Q16	21.21	21.28	21.21	23.00
10	1	LOW	64QAM	21.02	21.05	21.52	23.00
		MID	64QAM	21.01	21.13	21.58	23.00
		HIGH	64QAM	21.16	21.21	21.63	23.00
	25	LOW	64QAM	20.22	20.24	20.42	22.00
		MID	64QAM	20.04	20.41	20.45	22.00
		HIGH	64QAM	20.09	20.39	20.45	22.00
	50	LOW	64QAM	20.37	20.24	20.48	22.00

LTE B17-DSI 3 -Ant.41

Bandwidth(MHz)	RB Size	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	QPSK	23.07	23.00	23.29	25.00
		MID	QPSK	**23.43**	23.36	23.15	25.00
		HIGH	QPSK	23.06	23.19	23.26	25.00
	12	LOW	QPSK	22.33	22.17	22.38	24.00
		MID	QPSK	22.35	22.09	22.13	24.00
		HIGH	QPSK	22.03	22.22	22.15	24.00
	25	LOW	QPSK	22.19	22.12	22.27	24.00
5	1	LOW	Q16	22.32	22.10	22.48	24.00
		MID	Q16	22.30	22.38	22.76	24.00
		HIGH	Q16	22.27	22.28	22.57	24.00
	12	LOW	Q16	21.20	21.03	21.28	23.00
		MID	Q16	21.34	21.26	21.37	23.00
		HIGH	Q16	21.44	21.44	21.04	23.00
	25	LOW	Q16	21.33	21.09	21.28	23.00
5	1	LOW	64QAM	21.27	21.13	21.25	23.00
		MID	64QAM	21.26	21.57	21.76	23.00
		HIGH	64QAM	21.00	21.11	21.65	23.00
	12	LOW	64QAM	20.25	20.23	20.50	22.00
		MID	64QAM	20.26	20.40	20.28	22.00
		HIGH	64QAM	20.28	20.27	20.04	22.00
	25	LOW	64QAM	20.26	20.44	20.40	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	QPSK	23.12	23.10	23.12	25.00
		MID	QPSK	**23.53**	23.23	23.28	25.00
		HIGH	QPSK	23.03	23.03	23.15	25.00
	25	LOW	QPSK	22.18	22.03	22.23	24.00
		MID	QPSK	22.14	22.38	22.30	24.00
		HIGH	QPSK	22.09	22.21	22.10	24.00
	50	LOW	QPSK	22.35	22.12	22.39	24.00
10	1	LOW	Q16	22.28	22.07	22.43	24.00
		MID	Q16	22.35	22.40	22.75	24.00
		HIGH	Q16	22.22	22.07	22.54	24.00
	25	LOW	Q16	21.42	21.36	21.24	23.00
		MID	Q16	21.10	21.26	21.27	23.00
		HIGH	Q16	21.27	21.36	21.16	23.00
	50	LOW	Q16	21.21	21.28	21.21	23.00
10	1	LOW	64QAM	21.02	21.05	21.52	23.00
		MID	64QAM	21.01	21.13	21.58	23.00
		HIGH	64QAM	21.16	21.21	21.63	23.00
	25	LOW	64QAM	20.22	20.24	20.42	22.00
		MID	64QAM	20.04	20.41	20.45	22.00
		HIGH	64QAM	20.09	20.39	20.45	22.00
	50	LOW	64QAM	20.37	20.24	20.48	22.00

LTE B17-DSI 4 -Ant.41

Bandwidth(MHz)	RB Size	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	QPSK	23.07	23.00	23.29	25.00
		MID	QPSK	**23.43**	23.36	23.15	25.00
		HIGH	QPSK	23.06	23.19	23.26	25.00
	12	LOW	QPSK	22.33	22.17	22.38	24.00
		MID	QPSK	22.35	22.09	22.13	24.00
		HIGH	QPSK	22.03	22.22	22.15	24.00
	25	LOW	QPSK	22.19	22.12	22.27	24.00
5	1	LOW	Q16	22.32	22.10	22.48	24.00
		MID	Q16	22.30	22.38	22.76	24.00
		HIGH	Q16	22.27	22.28	22.57	24.00
	12	LOW	Q16	21.20	21.03	21.28	23.00
		MID	Q16	21.34	21.26	21.37	23.00
		HIGH	Q16	21.44	21.44	21.04	23.00
	25	LOW	Q16	21.33	21.09	21.28	23.00
5	1	LOW	64QAM	21.27	21.13	21.25	23.00
		MID	64QAM	21.26	21.57	21.76	23.00
		HIGH	64QAM	21.00	21.11	21.65	23.00
	12	LOW	64QAM	20.25	20.23	20.50	22.00
		MID	64QAM	20.26	20.40	20.28	22.00
		HIGH	64QAM	20.28	20.27	20.04	22.00
	25	LOW	64QAM	20.26	20.44	20.40	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	QPSK	23.12	23.10	23.12	25.00
		MID	QPSK	**23.53**	23.23	23.28	25.00
		HIGH	QPSK	23.03	23.03	23.15	25.00
	25	LOW	QPSK	22.18	22.03	22.23	24.00
		MID	QPSK	22.14	22.38	22.30	24.00
		HIGH	QPSK	22.09	22.21	22.10	24.00
	50	LOW	QPSK	22.35	22.12	22.39	24.00
10	1	LOW	Q16	22.28	22.07	22.43	24.00
		MID	Q16	22.35	22.40	22.75	24.00
		HIGH	Q16	22.22	22.07	22.54	24.00
	25	LOW	Q16	21.42	21.36	21.24	23.00
		MID	Q16	21.10	21.26	21.27	23.00
		HIGH	Q16	21.27	21.36	21.16	23.00
	50	LOW	Q16	21.21	21.28	21.21	23.00
10	1	LOW	64QAM	21.02	21.05	21.52	23.00
		MID	64QAM	21.01	21.13	21.58	23.00
		HIGH	64QAM	21.16	21.21	21.63	23.00
	25	LOW	64QAM	20.22	20.24	20.42	22.00
		MID	64QAM	20.04	20.41	20.45	22.00
		HIGH	64QAM	20.09	20.39	20.45	22.00
	50	LOW	64QAM	20.37	20.24	20.48	22.00

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Bandwidth(MHz)	RB Size	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	QPSK	23.07	23.00	23.29	25.00
		MID	QPSK	**23.43**	23.36	23.15	25.00
		HIGH	QPSK	23.06	23.19	23.26	25.00
	12	LOW	QPSK	22.33	22.17	22.38	24.00
		MID	QPSK	22.35	22.09	22.13	24.00
		HIGH	QPSK	22.03	22.22	22.15	24.00
	25	LOW	QPSK	22.19	22.12	22.27	24.00
5	1	LOW	Q16	22.32	22.10	22.48	24.00
		MID	Q16	22.30	22.38	22.76	24.00
		HIGH	Q16	22.27	22.28	22.57	24.00
	12	LOW	Q16	21.20	21.03	21.28	23.00
		MID	Q16	21.34	21.26	21.37	23.00
		HIGH	Q16	21.44	21.44	21.04	23.00
	25	LOW	Q16	21.33	21.09	21.28	23.00
5	1	LOW	64QAM	21.27	21.13	21.25	23.00
		MID	64QAM	21.26	21.57	21.76	23.00
		HIGH	64QAM	21.00	21.11	21.65	23.00
	12	LOW	64QAM	20.25	20.23	20.50	22.00
		MID	64QAM	20.26	20.40	20.28	22.00
		HIGH	64QAM	20.28	20.27	20.04	22.00
	25	LOW	64QAM	20.26	20.44	20.40	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	QPSK	23.12	23.10	23.12	25.00
		MID	QPSK	**23.53**	23.23	23.28	25.00
		HIGH	QPSK	23.03	23.03	23.15	25.00
	25	LOW	QPSK	22.18	22.03	22.23	24.00
		MID	QPSK	22.14	22.38	22.30	24.00
		HIGH	QPSK	22.09	22.21	22.10	24.00
	50	LOW	QPSK	22.35	22.12	22.39	24.00
10	1	LOW	Q16	22.28	22.07	22.43	24.00
		MID	Q16	22.35	22.40	22.75	24.00
		HIGH	Q16	22.22	22.07	22.54	24.00
	25	LOW	Q16	21.42	21.36	21.24	23.00
		MID	Q16	21.10	21.26	21.27	23.00
		HIGH	Q16	21.27	21.36	21.16	23.00
	50	LOW	Q16	21.21	21.28	21.21	23.00
10	1	LOW	64QAM	21.02	21.05	21.52	23.00
		MID	64QAM	21.01	21.13	21.58	23.00
		HIGH	64QAM	21.16	21.21	21.63	23.00
	25	LOW	64QAM	20.22	20.24	20.42	22.00
		MID	64QAM	20.04	20.41	20.45	22.00
		HIGH	64QAM	20.09	20.39	20.45	22.00
	50	LOW	64QAM	20.37	20.24	20.48	22.00

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Bandwidth(MHz)	RB Size	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	QPSK	23.07	23.00	23.29	25.00
		MID	QPSK	**23.43**	23.36	23.15	25.00
		HIGH	QPSK	23.06	23.19	23.26	25.00
	12	LOW	QPSK	22.33	22.17	22.38	24.00
		MID	QPSK	22.35	22.09	22.13	24.00
		HIGH	QPSK	22.03	22.22	22.15	24.00
	25	LOW	QPSK	22.19	22.12	22.27	24.00
5	1	LOW	Q16	22.32	22.10	22.48	24.00
		MID	Q16	22.30	22.38	22.76	24.00
		HIGH	Q16	22.27	22.28	22.57	24.00
	12	LOW	Q16	21.20	21.03	21.28	23.00
		MID	Q16	21.34	21.26	21.37	23.00
		HIGH	Q16	21.44	21.44	21.04	23.00
	25	LOW	Q16	21.33	21.09	21.28	23.00
5	1	LOW	64QAM	21.27	21.13	21.25	23.00
		MID	64QAM	21.26	21.57	21.76	23.00
		HIGH	64QAM	21.00	21.11	21.65	23.00
	12	LOW	64QAM	20.25	20.23	20.50	22.00
		MID	64QAM	20.26	20.40	20.28	22.00
		HIGH	64QAM	20.28	20.27	20.04	22.00
	25	LOW	64QAM	20.26	20.44	20.40	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	QPSK	23.12	23.10	23.12	25.00
		MID	QPSK	**23.53**	23.23	23.28	25.00
		HIGH	QPSK	23.03	23.03	23.15	25.00
	25	LOW	QPSK	22.18	22.03	22.23	24.00
		MID	QPSK	22.14	22.38	22.30	24.00
		HIGH	QPSK	22.09	22.21	22.10	24.00
	50	LOW	QPSK	22.35	22.12	22.39	24.00
10	1	LOW	Q16	22.28	22.07	22.43	24.00
		MID	Q16	22.35	22.40	22.75	24.00
		HIGH	Q16	22.22	22.07	22.54	24.00
	25	LOW	Q16	21.42	21.36	21.24	23.00
		MID	Q16	21.10	21.26	21.27	23.00
		HIGH	Q16	21.27	21.36	21.16	23.00
	50	LOW	Q16	21.21	21.28	21.21	23.00
10	1	LOW	64QAM	21.02	21.05	21.52	23.00
		MID	64QAM	21.01	21.13	21.58	23.00
		HIGH	64QAM	21.16	21.21	21.63	23.00
	25	LOW	64QAM	20.22	20.24	20.42	22.00
		MID	64QAM	20.04	20.41	20.45	22.00
		HIGH	64QAM	20.09	20.39	20.45	22.00
	50	LOW	64QAM	20.37	20.24	20.48	22.00

LTE B17-DSI 7 -Ant.41

Bandwidth(MHz)	RB Size	RB offest	Modulation	23755	23790	23825	Tune-up power(dBm)
5	1	LOW	QPSK	23.07	23.00	23.29	25.00
		MID	QPSK	**23.43**	23.36	23.15	25.00
		HIGH	QPSK	23.06	23.19	23.26	25.00
	12	LOW	QPSK	22.33	22.17	22.38	24.00
		MID	QPSK	22.35	22.09	22.13	24.00
		HIGH	QPSK	22.03	22.22	22.15	24.00
	25	LOW	QPSK	22.19	22.12	22.27	24.00
5	1	LOW	Q16	22.32	22.10	22.48	24.00
		MID	Q16	22.30	22.38	22.76	24.00
		HIGH	Q16	22.27	22.28	22.57	24.00
	12	LOW	Q16	21.20	21.03	21.28	23.00
		MID	Q16	21.34	21.26	21.37	23.00
		HIGH	Q16	21.44	21.44	21.04	23.00
	25	LOW	Q16	21.33	21.09	21.28	23.00
5	1	LOW	64QAM	21.27	21.13	21.25	23.00
		MID	64QAM	21.26	21.57	21.76	23.00
		HIGH	64QAM	21.00	21.11	21.65	23.00
	12	LOW	64QAM	20.25	20.23	20.50	22.00
		MID	64QAM	20.26	20.40	20.28	22.00
		HIGH	64QAM	20.28	20.27	20.04	22.00
	25	LOW	64QAM	20.26	20.44	20.40	22.00
Bandwidth(MHz)	RB Size	RB offest	Modulation	23780	23790	23800	Tune-up power(dBm)
10	1	LOW	QPSK	23.12	23.10	23.12	25.00
		MID	QPSK	**23.53**	23.23	23.28	25.00
		HIGH	QPSK	23.03	23.03	23.15	25.00
	25	LOW	QPSK	22.18	22.03	22.23	24.00
		MID	QPSK	22.14	22.38	22.30	24.00
		HIGH	QPSK	22.09	22.21	22.10	24.00
	50	LOW	QPSK	22.35	22.12	22.39	24.00
10	1	LOW	Q16	22.28	22.07	22.43	24.00
		MID	Q16	22.35	22.40	22.75	24.00
		HIGH	Q16	22.22	22.07	22.54	24.00
	25	LOW	Q16	21.42	21.36	21.24	23.00
		MID	Q16	21.10	21.26	21.27	23.00
		HIGH	Q16	21.27	21.36	21.16	23.00
	50	LOW	Q16	21.21	21.28	21.21	23.00
10	1	LOW	64QAM	21.02	21.05	21.52	23.00
		MID	64QAM	21.01	21.13	21.58	23.00
		HIGH	64QAM	21.16	21.21	21.63	23.00
	25	LOW	64QAM	20.22	20.24	20.42	22.00
		MID	64QAM	20.04	20.41	20.45	22.00
		HIGH	64QAM	20.09	20.39	20.45	22.00
	50	LOW	64QAM	20.37	20.24	20.48	22.00

LTE B66-Full Power -Ant.13

Bandwidth (MHz)	RB Size	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.82	22.82	22.80	24.00
		MID	QPSK	22.99	22.96	**23.00**	24.00
		HIGH	QPSK	22.79	22.82	22.86	24.00
	3	LOW	QPSK	22.85	22.90	22.94	24.00
		MID	QPSK	22.88	22.91	**23.00**	24.00
		HIGH	QPSK	22.83	22.89	22.99	24.00
	6	LOW	QPSK	21.89	21.86	21.90	23.00
1.4	1	LOW	Q16	21.64	21.98	21.65	23.00
		MID	Q16	21.83	22.12	21.73	23.00
		HIGH	Q16	21.67	21.96	21.66	23.00
	3	LOW	Q16	21.89	22.07	22.10	23.00
		MID	Q16	21.87	22.09	22.13	23.00
		HIGH	Q16	21.84	22.11	22.12	23.00
	6	LOW	Q16	21.01	20.78	21.09	22.00
1.4	1	LOW	64QAM	20.58	20.88	20.54	22.00
		MID	64QAM	20.95	20.99	20.71	22.00
		HIGH	64QAM	20.78	20.91	20.56	22.00
	3	LOW	64QAM	20.87	21.18	20.99	22.00
		MID	64QAM	20.74	21.15	21.00	22.00
		HIGH	64QAM	20.74	21.01	21.05	22.00
	6	LOW	64QAM	20.12	19.67	20.15	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	QPSK	22.77	22.89	22.68	24.00
		MID	QPSK	22.95	**23.14**	22.85	24.00
		HIGH	QPSK	22.76	22.73	22.72	24.00
	8	LOW	QPSK	21.70	21.96	21.82	23.00
		MID	QPSK	21.82	22.07	21.92	23.00
		HIGH	QPSK	22.05	21.94	21.91	23.00
	15	LOW	QPSK	21.93	21.87	22.05	23.00
3	1	LOW	Q16	21.90	22.14	21.88	23.00
		MID	Q16	22.28	22.22	22.14	23.00
		HIGH	Q16	22.24	21.95	22.08	23.00
	8	LOW	Q16	20.79	21.07	21.02	22.00
		MID	Q16	20.78	20.91	20.76	22.00
		HIGH	Q16	21.10	20.82	20.78	22.00
	15	LOW	Q16	20.87	21.10	20.87	22.00
3	1	LOW	64QAM	21.01	21.18	20.99	22.00
		MID	64QAM	21.30	21.31	21.34	22.00
		HIGH	64QAM	21.25	21.09	21.12	22.00
	8	LOW	64QAM	20.01	20.11	19.85	21.00
		MID	64QAM	19.91	20.13	20.04	21.00
		HIGH	64QAM	19.90	19.75	19.84	21.00
	15	LOW	64QAM	19.98	19.88	19.97	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	QPSK	22.73	22.88	22.80	24.00
		MID	QPSK	22.95	**23.11**	23.03	24.00
		HIGH	QPSK	22.68	22.64	22.67	24.00
	12	LOW	QPSK	21.94	21.83	21.89	23.00
		MID	QPSK	22.05	21.83	22.07	23.00
		HIGH	QPSK	22.06	21.72	22.00	23.00
	25	LOW	QPSK	21.79	22.04	21.82	23.00
5	1	LOW	Q16	22.18	21.98	21.90	23.00
		MID	Q16	22.44	22.26	22.16	23.00
		HIGH	Q16	22.28	22.08	21.98	23.00
	12	LOW	Q16	21.00	21.02	20.90	22.00
		MID	Q16	21.01	21.00	20.78	22.00
		HIGH	Q16	20.83	21.01	20.86	22.00
	25	LOW	Q16	20.83	20.91	20.97	22.00
5	1	LOW	64QAM	21.16	20.96	20.80	22.00
		MID	64QAM	21.22	21.34	21.06	22.00
		HIGH	64QAM	21.20	20.89	20.95	22.00
	12	LOW	64QAM	19.75	20.13	20.01	21.00
		MID	64QAM	19.77	19.97	20.03	21.00
		HIGH	64QAM	19.96	19.79	19.85	21.00
	25	LOW	64QAM	20.03	19.81	19.84	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	QPSK	22.83	22.91	22.59	24.00
		MID	QPSK	22.96	**23.17**	23.09	24.00
		HIGH	QPSK	22.76	22.65	22.71	24.00
	25	LOW	QPSK	21.72	21.97	22.03	23.00
		MID	QPSK	21.85	21.95	21.83	23.00
		HIGH	QPSK	21.81	21.82	21.89	23.00
	50	LOW	QPSK	22.02	22.01	21.99	23.00
10	1	LOW	Q16	22.02	21.91	22.06	23.00
		MID	Q16	22.38	22.35	22.33	23.00
		HIGH	Q16	22.22	21.92	22.10	23.00
	25	LOW	Q16	20.95	20.90	20.80	22.00
		MID	Q16	20.78	21.11	20.76	22.00
		HIGH	Q16	20.84	20.79	20.86	22.00
	50	LOW	Q16	21.04	20.91	20.87	22.00
10	1	LOW	64QAM	21.13	21.15	21.03	22.00
		MID	64QAM	21.41	21.32	21.15	22.00
		HIGH	64QAM	21.02	21.01	21.15	22.00
	25	LOW	64QAM	19.92	20.10	20.04	21.00
		MID	64QAM	19.92	20.07	19.93	21.00
		HIGH	64QAM	19.87	19.78	19.75	21.00
	50	LOW	64QAM	20.03	20.08	19.78	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	QPSK	22.66	22.81	22.75	24.00
		MID	QPSK	23.03	**23.28**	23.07	24.00
		HIGH	QPSK	22.93	22.84	22.73	24.00
	36	LOW	QPSK	21.73	21.84	21.92	23.00
		MID	QPSK	21.88	21.93	21.90	23.00
		HIGH	QPSK	22.06	21.95	21.82	23.00
	75	LOW	QPSK	21.77	21.76	22.05	23.00
15	1	LOW	Q16	21.99	22.19	21.94	23.00
		MID	Q16	22.38	22.11	22.31	23.00
		HIGH	Q16	22.26	22.07	21.87	23.00
	36	LOW	Q16	21.04	20.89	21.03	22.00
		MID	Q16	20.99	20.83	21.05	22.00
		HIGH	Q16	21.11	20.72	20.86	22.00
	75	LOW	Q16	21.01	20.88	20.86	22.00
15	1	LOW	64QAM	21.03	21.19	21.03	22.00
		MID	64QAM	21.19	21.26	21.15	22.00
		HIGH	64QAM	21.18	20.94	21.05	22.00
	36	LOW	64QAM	19.84	19.87	20.09	21.00
		MID	64QAM	19.82	20.05	19.84	21.00
		HIGH	64QAM	20.01	19.77	19.95	21.00
	75	LOW	64QAM	20.05	19.96	19.80	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	QPSK	22.72	22.79	22.68	24.00
		MID	QPSK	23.08	**23.14**	22.99	24.00
		HIGH	QPSK	22.81	22.78	22.76	24.00
	50	LOW	QPSK	21.84	21.96	21.96	23.00
		MID	QPSK	21.90	21.95	21.94	23.00
		HIGH	QPSK	21.92	21.82	21.87	23.00
	100	LOW	QPSK	21.89	21.90	21.92	23.00
20	1	LOW	Q16	22.04	22.06	21.92	23.00
		MID	Q16	**22.33**	22.26	22.20	23.00
		HIGH	Q16	22.14	21.97	22.01	23.00
	50	LOW	Q16	20.89	21.01	20.95	22.00
		MID	Q16	20.92	20.98	20.91	22.00
		HIGH	Q16	20.97	20.86	20.82	22.00
	100	LOW	Q16	20.92	20.96	20.92	22.00
20	1	LOW	64QAM	20.95	20.92	21.05	22.00
		MID	64QAM	21.26	**21.32**	21.23	22.00
		HIGH	64QAM	21.15	21.11	20.91	22.00
	50	LOW	64QAM	19.77	19.97	19.90	21.00
		MID	64QAM	19.84	19.96	19.84	21.00
		HIGH	64QAM	19.84	19.96	19.82	21.00
	100	LOW	64QAM	19.98	19.81	20.01	21.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	14.88	14.91	14.92	16.00
		MID	3	QPSK	15.08	15.15	15.09	16.00
		HIGH	5	QPSK	14.90	14.90	14.94	16.00
	3	LOW	0	QPSK	14.94	14.91	14.99	16.00
		MID	1	QPSK	14.97	14.99	15.07	16.00
		HIGH	3	QPSK	14.92	14.93	15.01	16.00
	6	LOW	0	QPSK	14.98	15.00	14.95	16.00
1.4	1	LOW	0	Q16	14.67	14.99	14.64	16.00
		MID	3	Q16	14.85	15.03	14.77	16.00
		HIGH	5	Q16	14.68	15.00	14.66	16.00
	3	LOW	0	Q16	14.83	15.00	15.03	16.00
		MID	1	Q16	14.85	15.03	15.06	16.00
		HIGH	3	Q16	14.85	15.00	15.05	16.00
	6	LOW	0	Q16	15.03	14.85	15.10	16.00
1.4	1	LOW	0	64QAM	14.75	15.09	14.69	16.00
		MID	12	64QAM	14.96	14.91	14.69	16.00
		HIGH	24	64QAM	14.60	14.93	14.66	16.00
	3	LOW	0	64QAM	14.81	15.00	15.09	16.00
		MID	7	64QAM	14.84	15.11	15.09	16.00
		HIGH	13	64QAM	14.77	14.95	15.07	16.00
	6	LOW	0	64QAM	15.08	14.78	**15.23**	16.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	0	QPSK	14.94	15.00	14.64	16.00
		MID	25	QPSK	15.26	15.06	15.14	16.00
		HIGH	49	QPSK	14.81	14.79	14.74	16.00
	8	LOW	0	QPSK	15.01	14.96	15.11	16.00
		MID	12	QPSK	14.94	14.91	14.86	16.00
		HIGH	25	QPSK	14.90	14.73	14.98	16.00
	15	LOW	0	QPSK	14.85	14.80	15.01	16.00
3	1	LOW	0	Q16	14.90	15.15	14.89	16.00
		MID	25	Q16	15.29	15.27	**15.31**	16.00
		HIGH	49	Q16	15.12	15.04	15.07	16.00
	8	LOW	0	Q16	14.74	14.96	14.99	16.00
		MID	12	Q16	14.92	15.02	14.87	16.00
		HIGH	25	Q16	14.88	14.70	14.73	16.00
	15	LOW	0	Q16	14.93	14.99	14.82	16.00
3	1	LOW	0	64QAM	15.12	15.04	14.95	16.00
		MID	25	64QAM	15.23	15.19	15.28	16.00
		HIGH	49	64QAM	15.20	15.14	14.86	16.00
	8	LOW	0	64QAM	14.85	14.99	14.91	16.00
		MID	12	64QAM	14.81	15.04	15.07	16.00
		HIGH	25	64QAM	14.86	14.66	14.85	16.00
	15	LOW	0	64QAM	14.97	14.84	14.99	16.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	0	QPSK	14.75	14.88	14.80	16.00
		MID	12	QPSK	15.29	15.23	14.92	16.00
		HIGH	24	QPSK	14.81	14.90	14.96	16.00
	12	LOW	0	QPSK	14.93	14.97	14.94	16.00
		MID	7	QPSK	15.05	15.03	14.93	16.00
		HIGH	13	QPSK	14.84	14.89	14.88	16.00
	25	LOW	0	QPSK	15.04	14.79	14.88	16.00
5	1	LOW	0	Q16	14.93	14.99	15.06	16.00
		MID	12	Q16	**15.40**	15.25	15.19	16.00
		HIGH	24	Q16	15.12	14.98	14.90	16.00
	12	LOW	0	Q16	14.94	14.96	14.93	16.00
		MID	7	Q16	15.02	14.95	14.92	16.00
		HIGH	13	Q16	14.84	14.66	14.72	16.00
	25	LOW	0	Q16	14.91	14.84	14.75	16.00
5	1	LOW	0	64QAM	14.97	14.89	15.01	16.00
		MID	12	64QAM	15.21	15.29	15.33	16.00
		HIGH	24	64QAM	15.03	15.07	15.04	16.00
	12	LOW	0	64QAM	14.97	15.01	14.96	16.00
		MID	7	64QAM	14.97	14.90	14.83	16.00
		HIGH	13	64QAM	14.89	14.77	14.72	16.00
	25	LOW	0	64QAM	14.97	14.90	15.03	16.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	0	QPSK	14.93	14.98	14.86	16.00
		MID	25	QPSK	15.27	15.06	14.96	16.00
		HIGH	49	QPSK	14.80	14.82	14.92	16.00
	25	LOW	0	QPSK	14.88	14.90	15.14	16.00
		MID	12	QPSK	14.76	15.05	15.01	16.00
		HIGH	25	QPSK	15.02	14.73	14.81	16.00
	50	LOW	0	QPSK	14.92	14.89	15.06	16.00
10	1	LOW	0	Q16	14.92	15.04	15.01	16.00
		MID	25	Q16	15.31	15.19	15.27	16.00
		HIGH	49	Q16	15.08	14.99	14.84	16.00
	25	LOW	0	Q16	14.71	14.97	14.81	16.00
		MID	12	Q16	14.98	14.90	14.79	16.00
		HIGH	25	Q16	14.85	14.80	14.80	16.00
	50	LOW	0	Q16	14.95	14.94	15.02	16.00
10	1	LOW	0	64QAM	15.04	15.16	14.82	16.00
		MID	25	64QAM	15.31	**15.38**	15.13	16.00
		HIGH	49	64QAM	15.15	14.92	15.03	16.00
	25	LOW	0	64QAM	14.73	14.84	15.04	16.00
		MID	12	64QAM	14.89	14.96	15.00	16.00
		HIGH	25	64QAM	14.89	14.77	14.87	16.00
	50	LOW	0	64QAM	14.89	14.86	14.77	16.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	0	QPSK	14.64	14.83	14.74	16.00
		MID	37	QPSK	15.19	15.25	15.13	16.00
		HIGH	74	QPSK	14.81	14.95	15.01	16.00
	36	LOW	0	QPSK	14.71	14.95	15.01	16.00
		MID	20	QPSK	14.82	14.87	15.01	16.00
		HIGH	39	QPSK	15.07	14.73	14.99	16.00
	75	LOW	0	QPSK	14.89	14.84	14.98	16.00
15	1	LOW	0	Q16	14.89	15.16	14.80	16.00
		MID	37	Q16	15.22	**15.37**	15.18	16.00
		HIGH	74	Q16	15.04	14.95	14.89	16.00
	36	LOW	0	Q16	14.93	14.93	15.02	16.00
		MID	20	Q16	15.01	15.00	14.78	16.00
		HIGH	39	Q16	15.07	14.92	14.83	16.00
	75	LOW	0	Q16	14.97	14.93	14.99	16.00
15	1	LOW	0	64QAM	15.04	15.13	14.93	16.00
		MID	37	64QAM	15.23	15.36	15.32	16.00
		HIGH	74	64QAM	15.19	15.13	14.88	16.00
	36	LOW	0	64QAM	14.76	15.11	14.82	16.00
		MID	20	64QAM	14.99	14.95	14.80	16.00
		HIGH	39	64QAM	14.91	14.74	14.87	16.00
	75	LOW	0	64QAM	15.04	14.91	14.75	16.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	0	QPSK	14.79	14.91	14.79	16.00
		MID	49	QPSK	15.14	**15.19**	15.01	16.00
		HIGH	99	QPSK	14.89	14.89	14.89	16.00
	50	LOW	0	QPSK	14.86	14.97	14.97	16.00
		MID	24	QPSK	14.91	14.98	14.96	16.00
		HIGH	50	QPSK	14.97	14.83	14.90	16.00
	100	LOW	0	QPSK	14.91	14.92	14.92	16.00
20	1	LOW	0	Q16	15.00	15.01	14.92	16.00
		MID	49	Q16	**15.33**	15.25	15.22	16.00
		HIGH	99	Q16	15.15	15.01	14.98	16.00
	50	LOW	0	Q16	14.83	14.96	14.95	16.00
		MID	24	Q16	14.91	14.93	14.93	16.00
		HIGH	50	Q16	14.92	14.81	14.82	16.00
	100	LOW	0	Q16	14.91	14.86	14.89	16.00
20	1	LOW	0	64QAM	14.99	14.95	15.01	16.00
		MID	49	64QAM	15.20	15.12	**15.32**	16.00
		HIGH	99	64QAM	15.10	14.91	15.02	16.00
	50	LOW	0	64QAM	14.93	15.07	14.92	16.00
		MID	24	64QAM	14.99	14.93	14.97	16.00
		HIGH	50	64QAM	15.06	14.83	14.81	16.00
	100	LOW	0	64QAM	14.98	14.87	14.77	16.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	13.92	13.92	13.97	15.00
		MID	3	QPSK	14.09	14.08	14.20	15.00
		HIGH	5	QPSK	13.90	13.91	13.95	15.00
	3	LOW	0	QPSK	13.94	13.93	14.01	15.00
		MID	1	QPSK	13.96	13.95	14.05	15.00
		HIGH	3	QPSK	13.93	13.96	14.02	15.00
	6	LOW	0	QPSK	13.92	13.99	14.01	15.00
1.4	1	LOW	0	Q16	13.75	14.07	13.71	15.00
		MID	3	Q16	13.89	14.17	13.87	15.00
		HIGH	5	Q16	13.73	14.03	13.73	15.00
	3	LOW	0	Q16	13.91	14.06	14.08	15.00
		MID	1	Q16	13.91	14.08	14.13	15.00
		HIGH	3	Q16	13.91	14.07	14.08	15.00
	6	LOW	0	Q16	14.06	13.87	14.15	15.00
1.4	1	LOW	0	64QAM	13.74	14.11	13.57	15.00
		MID	12	64QAM	13.82	14.27	14.01	15.00
		HIGH	24	64QAM	13.66	13.93	13.83	15.00
	3	LOW	0	64QAM	13.77	13.98	14.09	15.00
		MID	7	64QAM	13.76	13.95	14.13	15.00
		HIGH	13	64QAM	13.91	14.22	14.13	15.00
	6	LOW	0	64QAM	14.20	13.87	14.15	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	0	QPSK	13.89	13.78	13.96	15.00
		MID	25	QPSK	14.19	14.27	14.05	15.00
		HIGH	49	QPSK	14.07	13.91	13.81	15.00
	8	LOW	0	QPSK	13.97	13.99	13.95	15.00
		MID	12	QPSK	14.07	14.06	13.86	15.00
		HIGH	25	QPSK	14.08	13.88	13.96	15.00
	15	LOW	0	QPSK	13.92	14.05	14.06	15.00
3	1	LOW	0	Q16	14.21	13.95	14.06	15.00
		MID	25	Q16	14.43	14.39	14.40	15.00
		HIGH	49	Q16	14.11	14.07	14.01	15.00
	8	LOW	0	Q16	13.95	13.89	13.90	15.00
		MID	12	Q16	13.78	14.09	13.90	15.00
		HIGH	25	Q16	13.84	13.94	13.96	15.00
	15	LOW	0	Q16	13.87	13.99	13.88	15.00
3	1	LOW	0	64QAM	13.94	14.15	13.91	15.00
		MID	25	64QAM	14.51	14.27	14.29	15.00
		HIGH	49	64QAM	14.20	13.95	13.96	15.00
	8	LOW	0	64QAM	13.76	14.13	13.82	15.00
		MID	12	64QAM	14.07	13.83	13.84	15.00
		HIGH	25	64QAM	13.86	13.75	13.73	15.00
	15	LOW	0	64QAM	14.08	13.91	14.05	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	0	QPSK	13.77	13.95	13.93	15.00
		MID	12	QPSK	14.26	14.30	14.03	15.00
		HIGH	24	QPSK	14.03	14.03	13.89	15.00
	12	LOW	0	QPSK	13.81	13.92	13.89	15.00
		MID	7	QPSK	13.90	13.89	13.96	15.00
		HIGH	13	QPSK	14.01	13.82	13.82	15.00
	25	LOW	0	QPSK	13.90	13.89	13.92	15.00
5	1	LOW	0	Q16	13.99	14.22	13.96	15.00
		MID	12	Q16	14.45	14.34	14.12	15.00
		HIGH	24	Q16	14.22	14.07	14.04	15.00
	12	LOW	0	Q16	13.84	13.86	13.99	15.00
		MID	7	Q16	13.85	13.91	14.00	15.00
		HIGH	13	Q16	13.93	13.80	13.98	15.00
	25	LOW	0	Q16	14.06	13.78	13.85	15.00
5	1	LOW	0	64QAM	14.03	13.92	14.01	15.00
		MID	12	64QAM	14.25	14.18	14.26	15.00
		HIGH	24	64QAM	14.28	14.03	14.15	15.00
	12	LOW	0	64QAM	13.78	14.13	13.88	15.00
		MID	7	64QAM	13.86	13.87	14.10	15.00
		HIGH	13	64QAM	14.12	13.78	13.75	15.00
	25	LOW	0	64QAM	14.02	14.07	13.92	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	0	QPSK	13.81	13.99	13.90	15.00
		MID	25	QPSK	14.00	14.26	14.14	15.00
		HIGH	49	QPSK	13.85	13.82	14.06	15.00
	25	LOW	0	QPSK	13.82	13.91	13.85	15.00
		MID	12	QPSK	13.79	14.13	14.08	15.00
		HIGH	25	QPSK	14.02	13.94	14.06	15.00
	50	LOW	0	QPSK	13.93	13.94	13.89	15.00
10	1	LOW	0	Q16	13.94	14.22	13.86	15.00
		MID	25	Q16	14.31	14.44	14.35	15.00
		HIGH	49	Q16	14.24	14.12	13.93	15.00
	25	LOW	0	Q16	13.92	14.15	13.87	15.00
		MID	12	Q16	13.83	14.06	13.95	15.00
		HIGH	25	Q16	13.87	13.87	13.71	15.00
	50	LOW	0	Q16	14.03	13.91	13.90	15.00
10	1	LOW	0	64QAM	13.96	13.96	13.97	15.00
		MID	25	64QAM	14.42	14.14	14.30	15.00
		HIGH	49	64QAM	14.27	13.96	13.94	15.00
	25	LOW	0	64QAM	13.90	13.86	13.91	15.00
		MID	12	64QAM	14.07	13.99	13.88	15.00
		HIGH	25	64QAM	14.06	13.83	13.99	15.00
	50	LOW	0	64QAM	13.82	13.79	13.81	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	0	QPSK	13.72	13.94	13.70	15.00
		MID	37	QPSK	14.07	14.04	14.20	15.00
		HIGH	74	QPSK	13.81	14.03	14.00	15.00
	36	LOW	0	QPSK	13.90	14.08	13.88	15.00
		MID	20	QPSK	13.98	14.07	13.96	15.00
		HIGH	39	QPSK	14.07	13.81	13.90	15.00
	75	LOW	0	QPSK	13.90	13.88	13.87	15.00
15	1	LOW	0	Q16	13.93	13.98	13.88	15.00
		MID	37	Q16	14.51	14.29	14.14	15.00
		HIGH	74	Q16	14.04	13.92	14.01	15.00
	36	LOW	0	Q16	13.75	13.99	13.94	15.00
		MID	20	Q16	13.93	13.90	13.85	15.00
		HIGH	39	Q16	13.94	13.81	13.91	15.00
	75	LOW	0	Q16	13.96	13.89	14.03	15.00
15	1	LOW	0	64QAM	13.96	13.96	13.87	15.00
		MID	37	64QAM	14.22	14.40	14.34	15.00
		HIGH	74	64QAM	14.22	13.92	13.89	15.00
	36	LOW	0	64QAM	13.84	14.07	13.98	15.00
		MID	20	64QAM	14.08	13.89	13.90	15.00
		HIGH	39	64QAM	14.10	13.78	13.76	15.00
	75	LOW	0	64QAM	13.94	13.91	13.82	15.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	0	QPSK	13.80	13.90	13.82	15.00
		MID	49	QPSK	14.14	**14.17**	14.06	15.00
		HIGH	99	QPSK	13.92	13.88	13.93	15.00
	50	LOW	0	QPSK	13.90	14.00	13.99	15.00
		MID	24	QPSK	13.94	13.99	14.00	15.00
		HIGH	50	QPSK	13.96	13.88	13.93	15.00
	100	LOW	0	QPSK	13.94	13.97	13.97	15.00
20	1	LOW	0	Q16	14.07	14.07	13.95	15.00
		MID	49	Q16	**14.37**	14.29	14.27	15.00
		HIGH	99	Q16	14.17	14.04	14.04	15.00
	50	LOW	0	Q16	13.90	14.01	13.97	15.00
		MID	24	Q16	13.93	13.97	13.96	15.00
		HIGH	50	Q16	13.97	13.85	13.85	15.00
	100	LOW	0	Q16	13.97	13.92	13.93	15.00
20	1	LOW	0	64QAM	14.02	14.04	13.97	15.00
		MID	49	64QAM	14.24	14.16	14.14	15.00
		HIGH	99	64QAM	**14.25**	14.13	14.12	15.00
	50	LOW	0	64QAM	13.86	13.96	14.12	15.00
		MID	24	64QAM	14.04	14.01	13.85	15.00
		HIGH	50	64QAM	13.82	13.90	13.84	15.00
	100	LOW	0	64QAM	14.02	13.80	13.97	15.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	20.00	20.05	20.09	21.00
		MID	3	QPSK	20.19	20.24	20.30	21.00
		HIGH	5	QPSK	20.02	20.08	20.12	21.00
	3	LOW	0	QPSK	20.10	20.13	20.18	21.00
		MID	1	QPSK	20.12	20.15	20.19	21.00
		HIGH	3	QPSK	20.10	20.11	20.21	21.00
	6	LOW	0	QPSK	20.10	20.14	20.14	21.00
1.4	1	LOW	0	Q16	19.97	20.26	19.95	21.00
		MID	3	Q16	20.15	20.52	20.14	21.00
		HIGH	5	Q16	19.98	20.31	20.00	21.00
	3	LOW	0	Q16	20.17	20.37	20.36	21.00
		MID	1	Q16	20.18	20.37	20.48	21.00
		HIGH	3	Q16	20.16	20.40	20.41	21.00
	6	LOW	0	Q16	20.23	20.04	20.34	21.00
1.4	1	LOW	0	64QAM	19.85	20.37	19.84	21.00
		MID	12	64QAM	20.25	20.40	20.04	21.00
		HIGH	24	64QAM	19.87	20.45	20.06	21.00
	3	LOW	0	64QAM	20.23	20.51	20.44	21.00
		MID	7	64QAM	20.17	20.27	20.54	21.00
		HIGH	13	64QAM	20.09	20.39	20.55	21.00
	6	LOW	0	64QAM	20.14	20.14	20.26	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	0	QPSK	20.08	19.89	19.84	21.00
		MID	25	QPSK	20.29	20.46	20.12	21.00
		HIGH	49	QPSK	20.19	19.92	20.22	21.00
	8	LOW	0	QPSK	20.13	20.26	20.02	21.00
		MID	12	QPSK	20.13	20.10	20.30	21.00
		HIGH	25	QPSK	20.30	19.92	20.09	21.00
	15	LOW	0	QPSK	20.00	20.01	20.14	21.00
3	1	LOW	0	Q16	20.39	20.28	20.25	21.00
		MID	25	Q16	20.73	20.64	20.35	21.00
		HIGH	49	Q16	20.43	20.31	20.26	21.00
	8	LOW	0	Q16	20.27	20.13	20.23	21.00
		MID	12	Q16	20.20	20.17	20.14	21.00
		HIGH	25	Q16	20.18	20.06	20.18	21.00
	15	LOW	0	Q16	20.16	20.10	20.16	21.00
3	1	LOW	0	64QAM	20.22	20.28	20.32	21.00
		MID	25	64QAM	20.72	20.56	20.42	21.00
		HIGH	49	64QAM	20.41	20.37	20.24	21.00
	8	LOW	0	64QAM	20.01	20.25	20.21	21.00
		MID	12	64QAM	20.25	20.26	20.31	21.00
		HIGH	25	64QAM	20.18	20.30	20.20	21.00
	15	LOW	0	64QAM	20.30	20.36	20.27	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	0	QPSK	19.92	20.06	19.92	21.00
		MID	12	QPSK	20.26	20.34	20.25	21.00
		HIGH	24	QPSK	19.91	20.13	19.96	21.00
	12	LOW	0	QPSK	19.92	20.26	20.10	21.00
		MID	7	QPSK	20.26	20.01	20.21	21.00
		HIGH	13	QPSK	20.01	19.98	19.99	21.00
	25	LOW	0	QPSK	20.02	20.00	20.24	21.00
5	1	LOW	0	Q16	20.26	20.31	20.35	21.00
		MID	12	Q16	20.50	20.73	20.42	21.00
		HIGH	24	Q16	20.30	20.34	20.35	21.00
	12	LOW	0	Q16	20.09	20.20	20.31	21.00
		MID	7	Q16	20.14	20.14	20.16	21.00
		HIGH	13	Q16	20.28	20.28	20.04	21.00
	25	LOW	0	Q16	20.23	20.31	20.32	21.00
5	1	LOW	0	64QAM	20.17	20.31	20.29	21.00
		MID	12	64QAM	20.71	20.51	20.50	21.00
		HIGH	24	64QAM	20.38	20.30	20.34	21.00
	12	LOW	0	64QAM	20.30	20.28	20.19	21.00
		MID	7	64QAM	20.07	20.33	20.26	21.00
		HIGH	13	64QAM	20.40	20.27	20.09	21.00
	25	LOW	0	64QAM	20.24	20.06	20.35	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	0	QPSK	19.95	20.03	19.82	21.00
		MID	25	QPSK	20.26	20.27	20.16	21.00
		HIGH	49	QPSK	20.01	20.22	20.21	21.00
	25	LOW	0	QPSK	20.12	20.07	20.09	21.00
		MID	12	QPSK	20.16	20.29	20.26	21.00
		HIGH	25	QPSK	20.05	20.19	20.18	21.00
	50	LOW	0	QPSK	20.26	20.16	20.29	21.00
10	1	LOW	0	Q16	20.11	20.29	20.31	21.00
		MID	25	Q16	20.69	20.70	20.38	21.00
		HIGH	49	Q16	20.48	20.59	20.46	21.00
	25	LOW	0	Q16	20.27	20.32	20.19	21.00
		MID	12	Q16	20.07	20.28	20.21	21.00
		HIGH	25	Q16	20.40	20.31	20.20	21.00
	50	LOW	0	Q16	20.11	20.30	20.23	21.00
10	1	LOW	0	64QAM	20.33	20.39	20.31	21.00
		MID	25	64QAM	20.64	20.67	20.49	21.00
		HIGH	49	64QAM	20.43	20.40	20.43	21.00
	25	LOW	0	64QAM	20.04	20.25	20.36	21.00
		MID	12	64QAM	20.11	20.38	20.24	21.00
		HIGH	25	64QAM	20.25	20.32	20.15	21.00
	50	LOW	0	64QAM	20.16	20.28	20.18	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	0	QPSK	19.84	20.14	19.84	21.00
		MID	37	QPSK	20.26	20.42	20.40	21.00
		HIGH	74	QPSK	19.91	20.18	20.15	21.00
	36	LOW	0	QPSK	20.14	20.10	20.27	21.00
		MID	20	QPSK	20.17	20.09	20.21	21.00
		HIGH	39	QPSK	20.20	20.14	19.99	21.00
	75	LOW	0	QPSK	20.27	20.21	20.20	21.00
15	1	LOW	0	Q16	20.26	20.30	20.20	21.00
		MID	37	Q16	20.62	20.54	20.62	21.00
		HIGH	74	Q16	20.30	20.39	20.37	21.00
	36	LOW	0	Q16	20.14	20.34	20.26	21.00
		MID	20	Q16	20.24	20.40	20.18	21.00
		HIGH	39	Q16	20.13	20.06	20.04	21.00
	75	LOW	0	Q16	20.30	20.11	20.33	21.00
15	1	LOW	0	64QAM	20.28	20.53	20.25	21.00
		MID	37	64QAM	20.71	20.57	20.33	21.00
		HIGH	74	64QAM	20.33	20.60	20.42	21.00
	36	LOW	0	64QAM	20.12	20.17	20.34	21.00
		MID	20	64QAM	20.09	20.31	20.24	21.00
		HIGH	39	64QAM	20.15	20.12	20.15	21.00
	75	LOW	0	64QAM	20.11	20.21	20.37	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	0	QPSK	19.96	20.03	19.95	21.00
		MID	49	QPSK	20.26	**20.37**	20.25	21.00
		HIGH	99	QPSK	20.06	20.07	20.07	21.00
	50	LOW	0	QPSK	20.05	20.20	20.17	21.00
		MID	24	QPSK	20.11	20.15	20.19	21.00
		HIGH	50	QPSK	20.15	20.06	20.12	21.00
	100	LOW	0	QPSK	20.14	20.14	20.15	21.00
20	1	LOW	0	Q16	20.25	20.39	20.26	21.00
		MID	49	Q16	20.62	**20.66**	20.48	21.00
		HIGH	99	Q16	20.43	20.45	20.35	21.00
	50	LOW	0	Q16	20.16	20.27	20.21	21.00
		MID	24	Q16	20.21	20.29	20.24	21.00
		HIGH	50	Q16	20.25	20.18	20.15	21.00
	100	LOW	0	Q16	20.19	20.21	20.22	21.00
20	1	LOW	0	64QAM	20.15	20.35	20.28	21.00
		MID	49	64QAM	20.52	**20.79**	20.48	21.00
		HIGH	99	64QAM	20.38	20.34	20.25	21.00
	50	LOW	0	64QAM	20.07	20.37	20.11	21.00
		MID	24	64QAM	20.16	20.28	20.10	21.00
		HIGH	50	64QAM	20.35	20.29	20.14	21.00
	100	LOW	0	64QAM	20.11	20.10	20.10	21.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	19.03	19.11	19.11	20.00
		MID	3	QPSK	19.23	19.25	19.28	20.00
		HIGH	5	QPSK	19.11	19.13	19.11	20.00
	3	LOW	0	QPSK	19.16	19.14	19.19	20.00
		MID	1	QPSK	19.18	19.19	19.25	20.00
		HIGH	3	QPSK	19.09	19.17	19.21	20.00
	6	LOW	0	QPSK	19.14	19.16	19.17	20.00
1.4	1	LOW	0	Q16	18.95	19.24	18.98	20.00
		MID	3	Q16	19.07	19.39	19.14	20.00
		HIGH	5	Q16	18.97	19.26	18.98	20.00
	3	LOW	0	Q16	19.16	19.32	19.33	20.00
		MID	1	Q16	19.14	19.34	19.39	20.00
		HIGH	3	Q16	19.10	19.33	19.36	20.00
	6	LOW	0	Q16	19.24	19.04	19.36	20.00
1.4	1	LOW	0	64QAM	18.86	19.12	18.98	20.00
		MID	12	64QAM	19.11	19.44	19.28	20.00
		HIGH	24	64QAM	18.86	19.39	19.04	20.00
	3	LOW	0	64QAM	19.31	19.22	19.48	20.00
		MID	7	64QAM	19.00	19.23	19.26	20.00
		HIGH	13	64QAM	19.20	19.35	19.50	20.00
	6	LOW	0	64QAM	19.11	18.91	19.22	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	0	QPSK	19.00	18.99	18.98	20.00
		MID	25	QPSK	19.21	19.30	19.16	20.00
		HIGH	49	QPSK	19.03	19.22	19.23	20.00
	8	LOW	0	QPSK	19.31	19.28	19.37	20.00
		MID	12	QPSK	19.07	19.26	19.21	20.00
		HIGH	25	QPSK	19.10	19.20	19.24	20.00
	15	LOW	0	QPSK	19.20	19.06	19.04	20.00
3	1	LOW	0	Q16	19.31	19.42	19.17	20.00
		MID	25	Q16	19.54	19.43	19.50	20.00
		HIGH	49	Q16	19.40	19.39	19.31	20.00
	8	LOW	0	Q16	19.22	19.19	19.07	20.00
		MID	12	Q16	19.09	19.14	19.15	20.00
		HIGH	25	Q16	19.13	19.20	19.09	20.00
	15	LOW	0	Q16	19.27	19.26	19.10	20.00
3	1	LOW	0	64QAM	19.44	19.43	19.18	20.00
		MID	25	64QAM	19.59	19.48	19.59	20.00
		HIGH	49	64QAM	19.34	19.40	19.27	20.00
	8	LOW	0	64QAM	19.15	19.06	19.11	20.00
		MID	12	64QAM	19.18	19.27	19.36	20.00
		HIGH	25	64QAM	19.36	19.12	19.21	20.00
	15	LOW	0	64QAM	19.06	19.25	19.06	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	0	QPSK	18.85	19.17	19.00	20.00
		MID	12	QPSK	19.28	19.20	19.21	20.00
		HIGH	24	QPSK	19.20	19.14	19.10	20.00
	12	LOW	0	QPSK	19.12	19.24	19.14	20.00
		MID	7	QPSK	19.10	19.28	19.08	20.00
		HIGH	13	QPSK	19.07	18.98	19.03	20.00
	25	LOW	0	QPSK	19.12	19.05	19.06	20.00
5	1	LOW	0	Q16	19.22	19.40	19.23	20.00
		MID	12	Q16	19.49	19.65	19.40	20.00
		HIGH	24	Q16	19.40	19.40	19.20	20.00
	12	LOW	0	Q16	18.98	19.15	19.28	20.00
		MID	7	Q16	19.06	19.25	19.21	20.00
		HIGH	13	Q16	19.13	19.22	19.10	20.00
	25	LOW	0	Q16	19.28	19.05	19.27	20.00
5	1	LOW	0	64QAM	19.22	19.42	19.19	20.00
		MID	12	64QAM	19.74	19.50	19.50	20.00
		HIGH	24	64QAM	19.37	19.19	19.21	20.00
	12	LOW	0	64QAM	19.17	19.07	19.12	20.00
		MID	7	64QAM	19.15	19.20	19.14	20.00
		HIGH	13	64QAM	19.24	19.04	19.01	20.00
	25	LOW	0	64QAM	19.34	19.27	19.27	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	0	QPSK	18.84	18.98	19.00	20.00
		MID	25	QPSK	19.25	19.50	19.15	20.00
		HIGH	49	QPSK	19.11	19.17	19.04	20.00
	25	LOW	0	QPSK	19.13	19.25	19.30	20.00
		MID	12	QPSK	19.22	19.19	19.29	20.00
		HIGH	25	QPSK	19.13	19.10	19.06	20.00
	50	LOW	0	QPSK	19.04	19.07	19.14	20.00
10	1	LOW	0	Q16	19.32	19.41	19.33	20.00
		MID	25	Q16	19.65	19.55	19.59	20.00
		HIGH	49	Q16	19.52	19.24	19.26	20.00
	25	LOW	0	Q16	19.10	19.06	19.23	20.00
		MID	12	Q16	19.22	19.18	19.30	20.00
		HIGH	25	Q16	19.20	18.94	19.19	20.00
	50	LOW	0	Q16	19.15	19.07	19.25	20.00
10	1	LOW	0	64QAM	19.31	19.46	19.07	20.00
		MID	25	64QAM	19.59	19.56	19.58	20.00
		HIGH	49	64QAM	19.32	19.27	19.23	20.00
	25	LOW	0	64QAM	19.22	19.29	19.10	20.00
		MID	12	64QAM	19.16	19.25	19.33	20.00
		HIGH	25	64QAM	19.40	19.17	19.07	20.00
	50	LOW	0	64QAM	19.20	19.06	19.31	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	0	QPSK	19.05	19.13	18.97	20.00
		MID	37	QPSK	19.46	19.21	19.23	20.00
		HIGH	74	QPSK	19.00	19.08	19.00	20.00
	36	LOW	0	QPSK	19.17	19.24	19.23	20.00
		MID	20	QPSK	19.00	19.13	19.30	20.00
		HIGH	39	QPSK	19.22	18.97	19.14	20.00
	75	LOW	0	QPSK	19.15	19.12	19.24	20.00
15	1	LOW	0	Q16	19.33	19.19	19.18	20.00
		MID	37	Q16	19.57	19.69	19.40	20.00
		HIGH	74	Q16	19.40	19.26	19.36	20.00
	36	LOW	0	Q16	19.15	19.32	19.16	20.00
		MID	20	Q16	19.36	19.26	19.09	20.00
		HIGH	39	Q16	19.42	19.05	19.09	20.00
	75	LOW	0	Q16	19.27	18.99	19.23	20.00
15	1	LOW	0	64QAM	19.31	19.33	19.33	20.00
		MID	37	64QAM	19.61	19.57	19.47	20.00
		HIGH	74	64QAM	19.44	19.32	19.19	20.00
	36	LOW	0	64QAM	19.17	19.24	19.26	20.00
		MID	20	64QAM	19.27	19.15	19.24	20.00
		HIGH	39	64QAM	19.28	19.02	19.21	20.00
	75	LOW	0	64QAM	19.30	19.17	19.24	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	0	QPSK	18.95	19.08	18.95	20.00
		MID	49	QPSK	19.31	**19.35**	19.25	20.00
		HIGH	99	QPSK	19.11	19.07	19.08	20.00
	50	LOW	0	QPSK	19.16	19.27	19.22	20.00
		MID	24	QPSK	19.14	19.21	19.22	20.00
		HIGH	50	QPSK	19.17	19.10	19.13	20.00
	100	LOW	0	QPSK	19.15	19.15	19.17	20.00
20	1	LOW	0	Q16	19.33	19.34	19.21	20.00
		MID	49	Q16	**19.63**	19.55	19.52	20.00
		HIGH	99	Q16	19.39	19.31	19.28	20.00
	50	LOW	0	Q16	19.08	19.18	19.19	20.00
		MID	24	Q16	19.21	19.19	19.21	20.00
		HIGH	50	Q16	19.27	19.08	19.09	20.00
	100	LOW	0	Q16	19.19	19.13	19.18	20.00
20	1	LOW	0	64QAM	19.32	19.34	19.29	20.00
		MID	49	64QAM	**19.66**	19.43	19.65	20.00
		HIGH	99	64QAM	19.41	19.23	19.16	20.00
	50	LOW	0	64QAM	18.94	19.28	19.22	20.00
		MID	24	64QAM	19.11	19.06	19.16	20.00
		HIGH	50	64QAM	19.19	19.07	19.18	20.00
	100	LOW	0	64QAM	19.18	19.08	19.33	20.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	0	QPSK	19.03	19.11	19.11	20.00
		MID	3	QPSK	19.23	19.25	19.28	20.00
		HIGH	5	QPSK	19.11	19.13	19.11	20.00
	3	LOW	0	QPSK	19.16	19.14	19.19	20.00
		MID	1	QPSK	19.18	19.19	19.25	20.00
		HIGH	3	QPSK	19.09	19.17	19.21	20.00
	6	LOW	0	QPSK	19.14	19.16	19.17	20.00
1.4	1	LOW	0	Q16	18.95	19.24	18.98	20.00
		MID	3	Q16	19.07	19.39	19.14	20.00
		HIGH	5	Q16	18.97	19.26	18.98	20.00
	3	LOW	0	Q16	19.16	19.32	19.33	20.00
		MID	1	Q16	19.14	19.34	19.39	20.00
		HIGH	3	Q16	19.10	19.33	19.36	20.00
	6	LOW	0	Q16	19.24	19.04	19.36	20.00
1.4	1	LOW	0	64QAM	18.86	19.12	18.98	20.00
		MID	12	64QAM	19.11	19.44	19.28	20.00
		HIGH	24	64QAM	18.86	19.39	19.04	20.00
	3	LOW	0	64QAM	19.31	19.22	19.48	20.00
		MID	7	64QAM	19.00	19.23	19.26	20.00
		HIGH	13	64QAM	19.20	19.35	19.50	20.00
	6	LOW	0	64QAM	19.11	18.91	19.22	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	0	QPSK	19.00	18.99	18.98	20.00
		MID	25	QPSK	19.21	19.30	19.16	20.00
		HIGH	49	QPSK	19.03	19.22	19.23	20.00
	8	LOW	0	QPSK	19.31	19.28	19.37	20.00
		MID	12	QPSK	19.07	19.26	19.21	20.00
		HIGH	25	QPSK	19.10	19.20	19.24	20.00
	15	LOW	0	QPSK	19.20	19.06	19.04	20.00
3	1	LOW	0	Q16	19.31	19.42	19.17	20.00
		MID	25	Q16	19.54	19.43	19.50	20.00
		HIGH	49	Q16	19.40	19.39	19.31	20.00
	8	LOW	0	Q16	19.22	19.19	19.07	20.00
		MID	12	Q16	19.09	19.14	19.15	20.00
		HIGH	25	Q16	19.13	19.20	19.09	20.00
	15	LOW	0	Q16	19.27	19.26	19.10	20.00
3	1	LOW	0	64QAM	19.44	19.43	19.18	20.00
		MID	25	64QAM	19.59	19.48	19.59	20.00
		HIGH	49	64QAM	19.34	19.40	19.27	20.00
	8	LOW	0	64QAM	19.15	19.06	19.11	20.00
		MID	12	64QAM	19.18	19.27	19.36	20.00
		HIGH	25	64QAM	19.36	19.12	19.21	20.00
	15	LOW	0	64QAM	19.06	19.25	19.06	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	0	QPSK	18.85	19.17	19.00	20.00
		MID	12	QPSK	19.28	19.20	19.21	20.00
		HIGH	24	QPSK	19.20	19.14	19.10	20.00
	12	LOW	0	QPSK	19.12	19.24	19.14	20.00
		MID	7	QPSK	19.10	19.28	19.08	20.00
		HIGH	13	QPSK	19.07	18.98	19.03	20.00
	25	LOW	0	QPSK	19.12	19.05	19.06	20.00
5	1	LOW	0	Q16	19.22	19.40	19.23	20.00
		MID	12	Q16	19.49	19.65	19.40	20.00
		HIGH	24	Q16	19.40	19.40	19.20	20.00
	12	LOW	0	Q16	18.98	19.15	19.28	20.00
		MID	7	Q16	19.06	19.25	19.21	20.00
		HIGH	13	Q16	19.13	19.22	19.10	20.00
	25	LOW	0	Q16	19.28	19.05	19.27	20.00
5	1	LOW	0	64QAM	19.22	19.42	19.19	20.00
		MID	12	64QAM	19.74	19.50	19.50	20.00
		HIGH	24	64QAM	19.37	19.19	19.21	20.00
	12	LOW	0	64QAM	19.17	19.07	19.12	20.00
		MID	7	64QAM	19.15	19.20	19.14	20.00
		HIGH	13	64QAM	19.24	19.04	19.01	20.00
	25	LOW	0	64QAM	19.34	19.27	19.27	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	0	QPSK	18.84	18.98	19.00	20.00
		MID	25	QPSK	19.25	19.50	19.15	20.00
		HIGH	49	QPSK	19.11	19.17	19.04	20.00
	25	LOW	0	QPSK	19.13	19.25	19.30	20.00
		MID	12	QPSK	19.22	19.19	19.29	20.00
		HIGH	25	QPSK	19.13	19.10	19.06	20.00
	50	LOW	0	QPSK	19.04	19.07	19.14	20.00
10	1	LOW	0	Q16	19.32	19.41	19.33	20.00
		MID	25	Q16	19.65	19.55	19.59	20.00
		HIGH	49	Q16	19.52	19.24	19.26	20.00
	25	LOW	0	Q16	19.10	19.06	19.23	20.00
		MID	12	Q16	19.22	19.18	19.30	20.00
		HIGH	25	Q16	19.20	18.94	19.19	20.00
	50	LOW	0	Q16	19.15	19.07	19.25	20.00
10	1	LOW	0	64QAM	19.31	19.46	19.07	20.00
		MID	25	64QAM	19.59	19.56	19.58	20.00
		HIGH	49	64QAM	19.32	19.27	19.23	20.00
	25	LOW	0	64QAM	19.22	19.29	19.10	20.00
		MID	12	64QAM	19.16	19.25	19.33	20.00
		HIGH	25	64QAM	19.40	19.17	19.07	20.00
	50	LOW	0	64QAM	19.20	19.06	19.31	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	0	QPSK	19.05	19.13	18.97	20.00
		MID	37	QPSK	19.46	19.21	19.23	20.00
		HIGH	74	QPSK	19.00	19.08	19.00	20.00
	36	LOW	0	QPSK	19.17	19.24	19.23	20.00
		MID	20	QPSK	19.00	19.13	19.30	20.00
		HIGH	39	QPSK	19.22	18.97	19.14	20.00
	75	LOW	0	QPSK	19.15	19.12	19.24	20.00
15	1	LOW	0	Q16	19.33	19.19	19.18	20.00
		MID	37	Q16	19.57	19.69	19.40	20.00
		HIGH	74	Q16	19.40	19.26	19.36	20.00
	36	LOW	0	Q16	19.15	19.32	19.16	20.00
		MID	20	Q16	19.36	19.26	19.09	20.00
		HIGH	39	Q16	19.42	19.05	19.09	20.00
	75	LOW	0	Q16	19.27	18.99	19.23	20.00
15	1	LOW	0	64QAM	19.31	19.33	19.33	20.00
		MID	37	64QAM	19.61	19.57	19.47	20.00
		HIGH	74	64QAM	19.44	19.32	19.19	20.00
	36	LOW	0	64QAM	19.17	19.24	19.26	20.00
		MID	20	64QAM	19.27	19.15	19.24	20.00
		HIGH	39	64QAM	19.28	19.02	19.21	20.00
	75	LOW	0	64QAM	19.30	19.17	19.24	20.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	0	QPSK	18.95	19.08	18.95	20.00
		MID	49	QPSK	19.31	**19.35**	19.25	20.00
		HIGH	99	QPSK	19.11	19.07	19.08	20.00
	50	LOW	0	QPSK	19.16	19.27	19.22	20.00
		MID	24	QPSK	19.14	19.21	19.22	20.00
		HIGH	50	QPSK	19.17	19.10	19.13	20.00
	100	LOW	0	QPSK	19.15	19.15	19.17	20.00
20	1	LOW	0	Q16	19.33	19.34	19.21	20.00
		MID	49	Q16	**19.63**	19.55	19.52	20.00
		HIGH	99	Q16	19.39	19.31	19.28	20.00
	50	LOW	0	Q16	19.08	19.18	19.19	20.00
		MID	24	Q16	19.21	19.19	19.21	20.00
		HIGH	50	Q16	19.27	19.08	19.09	20.00
	100	LOW	0	Q16	19.19	19.13	19.18	20.00
20	1	LOW	0	64QAM	19.32	19.34	19.29	20.00
		MID	49	64QAM	**19.66**	19.43	19.65	20.00
		HIGH	99	64QAM	19.41	19.23	19.16	20.00
	50	LOW	0	64QAM	18.94	19.28	19.22	20.00
		MID	24	64QAM	19.11	19.06	19.16	20.00
		HIGH	50	64QAM	19.19	19.07	19.18	20.00
	100	LOW	0	64QAM	19.18	19.08	19.33	20.00

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Bandwidth (MHz)	RB Size	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.82	22.82	22.80	24.00
		MID	QPSK	22.99	22.96	**23.00**	24.00
		HIGH	QPSK	22.79	22.82	22.86	24.00
	3	LOW	QPSK	22.85	22.90	22.94	24.00
		MID	QPSK	22.88	22.91	**23.00**	24.00
		HIGH	QPSK	22.83	22.89	22.99	24.00
	6	LOW	QPSK	21.89	21.86	21.90	23.00
1.4	1	LOW	Q16	21.64	21.98	21.65	23.00
		MID	Q16	21.83	22.12	21.73	23.00
		HIGH	Q16	21.67	21.96	21.66	23.00
	3	LOW	Q16	21.89	22.07	22.10	23.00
		MID	Q16	21.87	22.09	22.13	23.00
		HIGH	Q16	21.84	22.11	22.12	23.00
	6	LOW	Q16	21.01	20.78	21.09	22.00
1.4	1	LOW	64QAM	20.58	20.88	20.54	22.00
		MID	64QAM	20.95	20.99	20.71	22.00
		HIGH	64QAM	20.78	20.91	20.56	22.00
	3	LOW	64QAM	20.87	21.18	20.99	22.00
		MID	64QAM	20.74	21.15	21.00	22.00
		HIGH	64QAM	20.74	21.01	21.05	22.00
	6	LOW	64QAM	20.12	19.67	20.15	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	QPSK	22.77	22.89	22.68	24.00
		MID	QPSK	22.95	**23.14**	22.85	24.00
		HIGH	QPSK	22.76	22.73	22.72	24.00
	8	LOW	QPSK	21.70	21.96	21.82	23.00
		MID	QPSK	21.82	22.07	21.92	23.00
		HIGH	QPSK	22.05	21.94	21.91	23.00
	15	LOW	QPSK	21.93	21.87	22.05	23.00
3	1	LOW	Q16	21.90	22.14	21.88	23.00
		MID	Q16	22.28	22.22	22.14	23.00
		HIGH	Q16	22.24	21.95	22.08	23.00
	8	LOW	Q16	20.79	21.07	21.02	22.00
		MID	Q16	20.78	20.91	20.76	22.00
		HIGH	Q16	21.10	20.82	20.78	22.00
	15	LOW	Q16	20.87	21.10	20.87	22.00
3	1	LOW	64QAM	21.01	21.18	20.99	22.00
		MID	64QAM	21.30	21.31	21.34	22.00
		HIGH	64QAM	21.25	21.09	21.12	22.00
	8	LOW	64QAM	20.01	20.11	19.85	21.00
		MID	64QAM	19.91	20.13	20.04	21.00
		HIGH	64QAM	19.90	19.75	19.84	21.00
	15	LOW	64QAM	19.98	19.88	19.97	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	QPSK	22.73	22.88	22.80	24.00
		MID	QPSK	22.95	**23.11**	23.03	24.00
		HIGH	QPSK	22.68	22.64	22.67	24.00
	12	LOW	QPSK	21.94	21.83	21.89	23.00
		MID	QPSK	22.05	21.83	22.07	23.00
		HIGH	QPSK	22.06	21.72	22.00	23.00
	25	LOW	QPSK	21.79	22.04	21.82	23.00
5	1	LOW	Q16	22.18	21.98	21.90	23.00
		MID	Q16	22.44	22.26	22.16	23.00
		HIGH	Q16	22.28	22.08	21.98	23.00
	12	LOW	Q16	21.00	21.02	20.90	22.00
		MID	Q16	21.01	21.00	20.78	22.00
		HIGH	Q16	20.83	21.01	20.86	22.00
	25	LOW	Q16	20.83	20.91	20.97	22.00
5	1	LOW	64QAM	21.16	20.96	20.80	22.00
		MID	64QAM	21.22	21.34	21.06	22.00
		HIGH	64QAM	21.20	20.89	20.95	22.00
	12	LOW	64QAM	19.75	20.13	20.01	21.00
		MID	64QAM	19.77	19.97	20.03	21.00
		HIGH	64QAM	19.96	19.79	19.85	21.00
	25	LOW	64QAM	20.03	19.81	19.84	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	QPSK	22.83	22.91	22.59	24.00
		MID	QPSK	22.96	**23.17**	23.09	24.00
		HIGH	QPSK	22.76	22.65	22.71	24.00
	25	LOW	QPSK	21.72	21.97	22.03	23.00
		MID	QPSK	21.85	21.95	21.83	23.00
		HIGH	QPSK	21.81	21.82	21.89	23.00
	50	LOW	QPSK	22.02	22.01	21.99	23.00
10	1	LOW	Q16	22.02	21.91	22.06	23.00
		MID	Q16	22.38	22.35	22.33	23.00
		HIGH	Q16	22.22	21.92	22.10	23.00
	25	LOW	Q16	20.95	20.90	20.80	22.00
		MID	Q16	20.78	21.11	20.76	22.00
		HIGH	Q16	20.84	20.79	20.86	22.00
	50	LOW	Q16	21.04	20.91	20.87	22.00
10	1	LOW	64QAM	21.13	21.15	21.03	22.00
		MID	64QAM	21.41	21.32	21.15	22.00
		HIGH	64QAM	21.02	21.01	21.15	22.00
	25	LOW	64QAM	19.92	20.10	20.04	21.00
		MID	64QAM	19.92	20.07	19.93	21.00
		HIGH	64QAM	19.87	19.78	19.75	21.00
	50	LOW	64QAM	20.03	20.08	19.78	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	QPSK	22.66	22.81	22.75	24.00
		MID	QPSK	23.03	**23.28**	23.07	24.00
		HIGH	QPSK	22.93	22.84	22.73	24.00
	36	LOW	QPSK	21.73	21.84	21.92	23.00
		MID	QPSK	21.88	21.93	21.90	23.00
		HIGH	QPSK	22.06	21.95	21.82	23.00
	75	LOW	QPSK	21.77	21.76	22.05	23.00
15	1	LOW	Q16	21.99	22.19	21.94	23.00
		MID	Q16	22.38	22.11	22.31	23.00
		HIGH	Q16	22.26	22.07	21.87	23.00
	36	LOW	Q16	21.04	20.89	21.03	22.00
		MID	Q16	20.99	20.83	21.05	22.00
		HIGH	Q16	21.11	20.72	20.86	22.00
	75	LOW	Q16	21.01	20.88	20.86	22.00
15	1	LOW	64QAM	21.03	21.19	21.03	22.00
		MID	64QAM	21.19	21.26	21.15	22.00
		HIGH	64QAM	21.18	20.94	21.05	22.00
	36	LOW	64QAM	19.84	19.87	20.09	21.00
		MID	64QAM	19.82	20.05	19.84	21.00
		HIGH	64QAM	20.01	19.77	19.95	21.00
	75	LOW	64QAM	20.05	19.96	19.80	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	QPSK	22.72	22.79	22.68	24.00
		MID	QPSK	23.08	**23.14**	22.99	24.00
		HIGH	QPSK	22.81	22.78	22.76	24.00
	50	LOW	QPSK	21.84	21.96	21.96	23.00
		MID	QPSK	21.90	21.95	21.94	23.00
		HIGH	QPSK	21.92	21.82	21.87	23.00
	100	LOW	QPSK	21.89	21.90	21.92	23.00
20	1	LOW	Q16	22.04	22.06	21.92	23.00
		MID	Q16	**22.33**	22.26	22.20	23.00
		HIGH	Q16	22.14	21.97	22.01	23.00
	50	LOW	Q16	20.89	21.01	20.95	22.00
		MID	Q16	20.92	20.98	20.91	22.00
		HIGH	Q16	20.97	20.86	20.82	22.00
	100	LOW	Q16	20.92	20.96	20.92	22.00
20	1	LOW	64QAM	20.95	20.92	21.05	22.00
		MID	64QAM	21.26	**21.32**	21.23	22.00
		HIGH	64QAM	21.15	21.11	20.91	22.00
	50	LOW	64QAM	19.77	19.97	19.90	21.00
		MID	64QAM	19.84	19.96	19.84	21.00
		HIGH	64QAM	19.84	19.96	19.82	21.00
	100	LOW	64QAM	19.98	19.81	20.01	21.00

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Bandwidth(MHz)	RB Size	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.86	22.92	22.95	24.50
		MID	QPSK	23.02	23.00	23.16	24.50
		HIGH	QPSK	22.86	22.91	22.93	24.50
	3	LOW	QPSK	22.89	23.03	23.08	24.50
		MID	QPSK	22.90	23.04	**23.18**	24.50
		HIGH	QPSK	22.87	23.07	23.12	24.50
	6	LOW	QPSK	21.96	21.93	22.02	23.50
1.4	1	LOW	Q16	21.89	22.37	22.02	23.50
		MID	Q16	22.08	22.48	22.16	23.50
		HIGH	Q16	21.89	22.30	22.03	23.50
	3	LOW	Q16	21.89	22.23	22.29	23.50
		MID	Q16	21.86	22.25	22.23	23.50
		HIGH	Q16	21.88	22.28	22.29	23.50
	6	LOW	Q16	21.02	20.90	21.23	22.50
1.4	1	LOW	64QAM	21.00	21.33	21.08	22.50
		MID	64QAM	21.19	21.61	21.08	22.50
		HIGH	64QAM	20.79	21.43	20.98	22.50
	3	LOW	64QAM	21.02	21.23	21.20	22.50
		MID	64QAM	20.93	21.28	21.29	22.50
		HIGH	64QAM	20.77	21.21	21.17	22.50
	6	LOW	64QAM	20.01	20.01	20.14	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	QPSK	22.78	22.66	22.57	24.50
		MID	QPSK	23.02	**23.03**	22.86	24.50
		HIGH	QPSK	22.65	22.56	22.58	24.50
	8	LOW	QPSK	21.67	21.73	22.03	23.50
		MID	QPSK	21.84	22.07	21.75	23.50
		HIGH	QPSK	21.65	21.87	21.68	23.50
	15	LOW	QPSK	21.65	21.96	21.66	23.50
3	1	LOW	Q16	22.21	22.32	21.96	23.50
		MID	Q16	22.59	22.51	22.17	23.50
		HIGH	Q16	22.33	22.32	22.16	23.50
	8	LOW	Q16	20.84	20.88	20.95	22.50
		MID	Q16	20.75	21.07	20.63	22.50
		HIGH	Q16	20.69	20.83	20.75	22.50
	15	LOW	Q16	20.91	20.83	20.69	22.50
3	1	LOW	64QAM	21.18	21.31	20.91	22.50
		MID	64QAM	21.56	21.54	21.04	22.50
		HIGH	64QAM	21.34	21.06	21.09	22.50
	8	LOW	64QAM	19.87	19.97	19.95	21.50
		MID	64QAM	19.87	19.85	19.72	21.50
		HIGH	64QAM	19.95	20.01	19.62	21.50
	15	LOW	64QAM	19.65	19.81	19.82	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	QPSK	22.67	22.84	22.54	24.50
		MID	QPSK	22.88	**23.15**	23.04	24.50
		HIGH	QPSK	22.92	22.76	22.55	24.50
	12	LOW	QPSK	21.70	21.80	22.09	23.50
		MID	QPSK	21.78	21.82	22.03	23.50
		HIGH	QPSK	21.66	21.93	21.78	23.50
	25	LOW	QPSK	21.86	21.75	21.71	23.50
5	1	LOW	Q16	22.14	22.24	21.95	23.50
		MID	Q16	22.43	22.37	22.25	23.50
		HIGH	Q16	22.09	22.28	22.16	23.50
	12	LOW	Q16	20.83	20.87	20.85	22.50
		MID	Q16	20.86	21.08	20.67	22.50
		HIGH	Q16	20.73	20.88	20.74	22.50
	25	LOW	Q16	20.79	20.91	20.86	22.50
5	1	LOW	64QAM	21.02	21.17	20.79	22.50
		MID	64QAM	21.42	21.56	21.29	22.50
		HIGH	64QAM	21.31	21.02	21.09	22.50
	12	LOW	64QAM	19.91	20.10	19.80	21.50
		MID	64QAM	19.93	19.85	19.76	21.50
		HIGH	64QAM	19.77	19.95	19.79	21.50
	25	LOW	64QAM	19.94	20.05	19.79	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	QPSK	22.76	22.85	22.54	24.50
		MID	QPSK	22.89	**22.97**	22.96	24.50
		HIGH	QPSK	22.91	22.58	22.76	24.50
	25	LOW	QPSK	21.76	21.77	21.92	23.50
		MID	QPSK	21.82	21.87	22.01	23.50
		HIGH	QPSK	21.84	21.78	21.62	23.50
	50	LOW	QPSK	21.65	21.79	21.82	23.50
10	1	LOW	Q16	22.17	22.22	21.93	23.50
		MID	Q16	22.48	22.52	22.23	23.50
		HIGH	Q16	22.24	22.07	21.98	23.50
	25	LOW	Q16	20.80	21.03	20.84	22.50
		MID	Q16	20.71	21.03	20.76	22.50
		HIGH	Q16	20.69	20.95	20.74	22.50
	50	LOW	Q16	20.87	20.78	20.86	22.50
10	1	LOW	64QAM	20.97	21.16	21.05	22.50
		MID	64QAM	21.32	21.36	21.13	22.50
		HIGH	64QAM	21.21	21.11	21.15	22.50
	25	LOW	64QAM	19.77	19.86	19.77	21.50
		MID	64QAM	19.73	19.94	19.63	21.50
		HIGH	64QAM	19.85	19.86	19.75	21.50
	50	LOW	64QAM	19.69	19.87	19.71	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	QPSK	22.78	22.68	22.75	24.50
		MID	QPSK	23.01	22.96	**23.05**	24.50
		HIGH	QPSK	22.90	22.77	22.58	24.50
	36	LOW	QPSK	21.84	21.85	22.06	23.50
		MID	QPSK	21.66	22.07	22.00	23.50
		HIGH	QPSK	21.71	21.98	21.68	23.50
	75	LOW	QPSK	21.68	21.90	21.79	23.50
15	1	LOW	Q16	22.13	22.25	22.05	23.50
		MID	Q16	22.46	22.31	22.17	23.50
		HIGH	Q16	22.18	22.17	22.21	23.50
	36	LOW	Q16	20.76	21.02	20.65	22.50
		MID	Q16	20.93	21.02	20.71	22.50
		HIGH	Q16	20.70	20.91	20.71	22.50
	75	LOW	Q16	20.95	20.82	20.84	22.50
15	1	LOW	64QAM	21.16	21.32	20.76	22.50
		MID	64QAM	21.32	21.46	21.28	22.50
		HIGH	64QAM	21.28	21.23	21.07	22.50
	36	LOW	64QAM	19.85	20.00	19.78	21.50
		MID	64QAM	19.69	19.99	19.66	21.50
		HIGH	64QAM	19.67	19.81	19.59	21.50
	75	LOW	64QAM	19.80	19.93	19.65	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	QPSK	22.67	22.70	22.63	24.50
		MID	QPSK	23.01	**23.03**	22.91	24.50
		HIGH	QPSK	22.77	22.69	22.70	24.50
	50	LOW	QPSK	21.79	21.87	21.96	23.50
		MID	QPSK	21.78	21.97	21.90	23.50
		HIGH	QPSK	21.79	21.84	21.71	23.50
	100	LOW	QPSK	21.79	21.82	21.77	23.50
20	1	LOW	Q16	22.10	22.23	21.90	23.50
		MID	Q16	22.44	**22.45**	22.19	23.50
		HIGH	Q16	22.23	22.17	22.07	23.50
	50	LOW	Q16	20.80	20.95	20.80	22.50
		MID	Q16	20.80	20.96	20.75	22.50
		HIGH	Q16	20.81	20.96	20.64	22.50
	100	LOW	Q16	20.80	20.91	20.76	22.50
20	1	LOW	64QAM	21.10	21.23	20.92	22.50
		MID	64QAM	21.31	**21.60**	21.16	22.50
		HIGH	64QAM	21.37	21.21	21.01	22.50
	50	LOW	64QAM	19.89	20.10	19.90	21.50
		MID	64QAM	19.93	19.99	19.72	21.50
		HIGH	64QAM	19.82	19.96	19.52	21.50
	100	LOW	64QAM	19.66	19.96	19.76	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.86	22.92	22.95	24.50
		MID	QPSK	23.02	23.00	23.16	24.50
		HIGH	QPSK	22.86	22.91	22.93	24.50
	3	LOW	QPSK	22.89	23.03	23.08	24.50
		MID	QPSK	22.90	23.04	**23.18**	24.50
		HIGH	QPSK	22.87	23.07	23.12	24.50
	6	LOW	QPSK	21.96	21.93	22.02	23.50
1.4	1	LOW	Q16	21.89	22.37	22.02	23.50
		MID	Q16	22.08	22.48	22.16	23.50
		HIGH	Q16	21.89	22.30	22.03	23.50
	3	LOW	Q16	21.89	22.23	22.29	23.50
		MID	Q16	21.86	22.25	22.23	23.50
		HIGH	Q16	21.88	22.28	22.29	23.50
	6	LOW	Q16	21.02	20.90	21.23	22.50
1.4	1	LOW	64QAM	21.00	21.33	21.08	22.50
		MID	64QAM	21.19	21.61	21.08	22.50
		HIGH	64QAM	20.79	21.43	20.98	22.50
	3	LOW	64QAM	21.02	21.23	21.20	22.50
		MID	64QAM	20.93	21.28	21.29	22.50
		HIGH	64QAM	20.77	21.21	21.17	22.50
	6	LOW	64QAM	20.01	20.01	20.14	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	QPSK	22.78	22.66	22.57	24.50
		MID	QPSK	23.02	**23.03**	22.86	24.50
		HIGH	QPSK	22.65	22.56	22.58	24.50
	8	LOW	QPSK	21.67	21.73	22.03	23.50
		MID	QPSK	21.84	22.07	21.75	23.50
		HIGH	QPSK	21.65	21.87	21.68	23.50
	15	LOW	QPSK	21.65	21.96	21.66	23.50
3	1	LOW	Q16	22.21	22.32	21.96	23.50
		MID	Q16	22.59	22.51	22.17	23.50
		HIGH	Q16	22.33	22.32	22.16	23.50
	8	LOW	Q16	20.84	20.88	20.95	22.50
		MID	Q16	20.75	21.07	20.63	22.50
		HIGH	Q16	20.69	20.83	20.75	22.50
	15	LOW	Q16	20.91	20.83	20.69	22.50
3	1	LOW	64QAM	21.18	21.31	20.91	22.50
		MID	64QAM	21.56	21.54	21.04	22.50
		HIGH	64QAM	21.34	21.06	21.09	22.50
	8	LOW	64QAM	19.87	19.97	19.95	21.50
		MID	64QAM	19.87	19.85	19.72	21.50
		HIGH	64QAM	19.95	20.01	19.62	21.50
	15	LOW	64QAM	19.65	19.81	19.82	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	QPSK	22.67	22.84	22.54	24.50
		MID	QPSK	22.88	**23.15**	23.04	24.50
		HIGH	QPSK	22.92	22.76	22.55	24.50
	12	LOW	QPSK	21.70	21.80	22.09	23.50
		MID	QPSK	21.78	21.82	22.03	23.50
		HIGH	QPSK	21.66	21.93	21.78	23.50
	25	LOW	QPSK	21.86	21.75	21.71	23.50
5	1	LOW	Q16	22.14	22.24	21.95	23.50
		MID	Q16	22.43	22.37	22.25	23.50
		HIGH	Q16	22.09	22.28	22.16	23.50
	12	LOW	Q16	20.83	20.87	20.85	22.50
		MID	Q16	20.86	21.08	20.67	22.50
		HIGH	Q16	20.73	20.88	20.74	22.50
	25	LOW	Q16	20.79	20.91	20.86	22.50
5	1	LOW	64QAM	21.02	21.17	20.79	22.50
		MID	64QAM	21.42	21.56	21.29	22.50
		HIGH	64QAM	21.31	21.02	21.09	22.50
	12	LOW	64QAM	19.91	20.10	19.80	21.50
		MID	64QAM	19.93	19.85	19.76	21.50
		HIGH	64QAM	19.77	19.95	19.79	21.50
	25	LOW	64QAM	19.94	20.05	19.79	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	QPSK	22.76	22.85	22.54	24.50
		MID	QPSK	22.89	**22.97**	22.96	24.50
		HIGH	QPSK	22.91	22.58	22.76	24.50
	25	LOW	QPSK	21.76	21.77	21.92	23.50
		MID	QPSK	21.82	21.87	22.01	23.50
		HIGH	QPSK	21.84	21.78	21.62	23.50
	50	LOW	QPSK	21.65	21.79	21.82	23.50
10	1	LOW	Q16	22.17	22.22	21.93	23.50
		MID	Q16	22.48	22.52	22.23	23.50
		HIGH	Q16	22.24	22.07	21.98	23.50
	25	LOW	Q16	20.80	21.03	20.84	22.50
		MID	Q16	20.71	21.03	20.76	22.50
		HIGH	Q16	20.69	20.95	20.74	22.50
	50	LOW	Q16	20.87	20.78	20.86	22.50
10	1	LOW	64QAM	20.97	21.16	21.05	22.50
		MID	64QAM	21.32	21.36	21.13	22.50
		HIGH	64QAM	21.21	21.11	21.15	22.50
	25	LOW	64QAM	19.77	19.86	19.77	21.50
		MID	64QAM	19.73	19.94	19.63	21.50
		HIGH	64QAM	19.85	19.86	19.75	21.50
	50	LOW	64QAM	19.69	19.87	19.71	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	QPSK	22.78	22.68	22.75	24.50
		MID	QPSK	23.01	22.96	**23.05**	24.50
		HIGH	QPSK	22.90	22.77	22.58	24.50
	36	LOW	QPSK	21.84	21.85	22.06	23.50
		MID	QPSK	21.66	22.07	22.00	23.50
		HIGH	QPSK	21.71	21.98	21.68	23.50
	75	LOW	QPSK	21.68	21.90	21.79	23.50
15	1	LOW	Q16	22.13	22.25	22.05	23.50
		MID	Q16	22.46	22.31	22.17	23.50
		HIGH	Q16	22.18	22.17	22.21	23.50
	36	LOW	Q16	20.76	21.02	20.65	22.50
		MID	Q16	20.93	21.02	20.71	22.50
		HIGH	Q16	20.70	20.91	20.71	22.50
	75	LOW	Q16	20.95	20.82	20.84	22.50
15	1	LOW	64QAM	21.16	21.32	20.76	22.50
		MID	64QAM	21.32	21.46	21.28	22.50
		HIGH	64QAM	21.28	21.23	21.07	22.50
	36	LOW	64QAM	19.85	20.00	19.78	21.50
		MID	64QAM	19.69	19.99	19.66	21.50
		HIGH	64QAM	19.67	19.81	19.59	21.50
	75	LOW	64QAM	19.80	19.93	19.65	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	QPSK	22.67	22.70	22.63	24.50
		MID	QPSK	23.01	**23.03**	22.91	24.50
		HIGH	QPSK	22.77	22.69	22.70	24.50
	50	LOW	QPSK	21.79	21.87	21.96	23.50
		MID	QPSK	21.78	21.97	21.90	23.50
		HIGH	QPSK	21.79	21.84	21.71	23.50
	100	LOW	QPSK	21.79	21.82	21.77	23.50
20	1	LOW	Q16	22.10	22.23	21.90	23.50
		MID	Q16	22.44	**22.45**	22.19	23.50
		HIGH	Q16	22.23	22.17	22.07	23.50
	50	LOW	Q16	20.80	20.95	20.80	22.50
		MID	Q16	20.80	20.96	20.75	22.50
		HIGH	Q16	20.81	20.96	20.64	22.50
	100	LOW	Q16	20.80	20.91	20.76	22.50
20	1	LOW	64QAM	21.10	21.23	20.92	22.50
		MID	64QAM	21.31	**21.60**	21.16	22.50
		HIGH	64QAM	21.37	21.21	21.01	22.50
	50	LOW	64QAM	19.89	20.10	19.90	21.50
		MID	64QAM	19.93	19.99	19.72	21.50
		HIGH	64QAM	19.82	19.96	19.52	21.50
	100	LOW	64QAM	19.66	19.96	19.76	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.86	22.92	22.95	24.50
		MID	QPSK	23.02	23.00	23.16	24.50
		HIGH	QPSK	22.86	22.91	22.93	24.50
	3	LOW	QPSK	22.89	23.03	23.08	24.50
		MID	QPSK	22.90	23.04	**23.18**	24.50
		HIGH	QPSK	22.87	23.07	23.12	24.50
	6	LOW	QPSK	21.96	21.93	22.02	23.50
1.4	1	LOW	Q16	21.89	22.37	22.02	23.50
		MID	Q16	22.08	22.48	22.16	23.50
		HIGH	Q16	21.89	22.30	22.03	23.50
	3	LOW	Q16	21.89	22.23	22.29	23.50
		MID	Q16	21.86	22.25	22.23	23.50
		HIGH	Q16	21.88	22.28	22.29	23.50
	6	LOW	Q16	21.02	20.90	21.23	22.50
1.4	1	LOW	64QAM	21.00	21.33	21.08	22.50
		MID	64QAM	21.19	21.61	21.08	22.50
		HIGH	64QAM	20.79	21.43	20.98	22.50
	3	LOW	64QAM	21.02	21.23	21.20	22.50
		MID	64QAM	20.93	21.28	21.29	22.50
		HIGH	64QAM	20.77	21.21	21.17	22.50
	6	LOW	64QAM	20.01	20.01	20.14	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	QPSK	22.78	22.66	22.57	24.50
		MID	QPSK	23.02	**23.03**	22.86	24.50
		HIGH	QPSK	22.65	22.56	22.58	24.50
	8	LOW	QPSK	21.67	21.73	22.03	23.50
		MID	QPSK	21.84	22.07	21.75	23.50
		HIGH	QPSK	21.65	21.87	21.68	23.50
	15	LOW	QPSK	21.65	21.96	21.66	23.50
3	1	LOW	Q16	22.21	22.32	21.96	23.50
		MID	Q16	22.59	22.51	22.17	23.50
		HIGH	Q16	22.33	22.32	22.16	23.50
	8	LOW	Q16	20.84	20.88	20.95	22.50
		MID	Q16	20.75	21.07	20.63	22.50
		HIGH	Q16	20.69	20.83	20.75	22.50
	15	LOW	Q16	20.91	20.83	20.69	22.50
3	1	LOW	64QAM	21.18	21.31	20.91	22.50
		MID	64QAM	21.56	21.54	21.04	22.50
		HIGH	64QAM	21.34	21.06	21.09	22.50
	8	LOW	64QAM	19.87	19.97	19.95	21.50
		MID	64QAM	19.87	19.85	19.72	21.50
		HIGH	64QAM	19.95	20.01	19.62	21.50
	15	LOW	64QAM	19.65	19.81	19.82	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	QPSK	22.67	22.84	22.54	24.50
		MID	QPSK	22.88	**23.15**	23.04	24.50
		HIGH	QPSK	22.92	22.76	22.55	24.50
	12	LOW	QPSK	21.70	21.80	22.09	23.50
		MID	QPSK	21.78	21.82	22.03	23.50
		HIGH	QPSK	21.66	21.93	21.78	23.50
	25	LOW	QPSK	21.86	21.75	21.71	23.50
5	1	LOW	Q16	22.14	22.24	21.95	23.50
		MID	Q16	22.43	22.37	22.25	23.50
		HIGH	Q16	22.09	22.28	22.16	23.50
	12	LOW	Q16	20.83	20.87	20.85	22.50
		MID	Q16	20.86	21.08	20.67	22.50
		HIGH	Q16	20.73	20.88	20.74	22.50
	25	LOW	Q16	20.79	20.91	20.86	22.50
5	1	LOW	64QAM	21.02	21.17	20.79	22.50
		MID	64QAM	21.42	21.56	21.29	22.50
		HIGH	64QAM	21.31	21.02	21.09	22.50
	12	LOW	64QAM	19.91	20.10	19.80	21.50
		MID	64QAM	19.93	19.85	19.76	21.50
		HIGH	64QAM	19.77	19.95	19.79	21.50
	25	LOW	64QAM	19.94	20.05	19.79	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	QPSK	22.76	22.85	22.54	24.50
		MID	QPSK	22.89	**22.97**	22.96	24.50
		HIGH	QPSK	22.91	22.58	22.76	24.50
	25	LOW	QPSK	21.76	21.77	21.92	23.50
		MID	QPSK	21.82	21.87	22.01	23.50
		HIGH	QPSK	21.84	21.78	21.62	23.50
	50	LOW	QPSK	21.65	21.79	21.82	23.50
10	1	LOW	Q16	22.17	22.22	21.93	23.50
		MID	Q16	22.48	22.52	22.23	23.50
		HIGH	Q16	22.24	22.07	21.98	23.50
	25	LOW	Q16	20.80	21.03	20.84	22.50
		MID	Q16	20.71	21.03	20.76	22.50
		HIGH	Q16	20.69	20.95	20.74	22.50
	50	LOW	Q16	20.87	20.78	20.86	22.50
10	1	LOW	64QAM	20.97	21.16	21.05	22.50
		MID	64QAM	21.32	21.36	21.13	22.50
		HIGH	64QAM	21.21	21.11	21.15	22.50
	25	LOW	64QAM	19.77	19.86	19.77	21.50
		MID	64QAM	19.73	19.94	19.63	21.50
		HIGH	64QAM	19.85	19.86	19.75	21.50
	50	LOW	64QAM	19.69	19.87	19.71	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	QPSK	22.78	22.68	22.75	24.50
		MID	QPSK	23.01	22.96	**23.05**	24.50
		HIGH	QPSK	22.90	22.77	22.58	24.50
	36	LOW	QPSK	21.84	21.85	22.06	23.50
		MID	QPSK	21.66	22.07	22.00	23.50
		HIGH	QPSK	21.71	21.98	21.68	23.50
	75	LOW	QPSK	21.68	21.90	21.79	23.50
15	1	LOW	Q16	22.13	22.25	22.05	23.50
		MID	Q16	22.46	22.31	22.17	23.50
		HIGH	Q16	22.18	22.17	22.21	23.50
	36	LOW	Q16	20.76	21.02	20.65	22.50
		MID	Q16	20.93	21.02	20.71	22.50
		HIGH	Q16	20.70	20.91	20.71	22.50
	75	LOW	Q16	20.95	20.82	20.84	22.50
15	1	LOW	64QAM	21.16	21.32	20.76	22.50
		MID	64QAM	21.32	21.46	21.28	22.50
		HIGH	64QAM	21.28	21.23	21.07	22.50
	36	LOW	64QAM	19.85	20.00	19.78	21.50
		MID	64QAM	19.69	19.99	19.66	21.50
		HIGH	64QAM	19.67	19.81	19.59	21.50
	75	LOW	64QAM	19.80	19.93	19.65	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	QPSK	22.67	22.70	22.63	24.50
		MID	QPSK	23.01	**23.03**	22.91	24.50
		HIGH	QPSK	22.77	22.69	22.70	24.50
	50	LOW	QPSK	21.79	21.87	21.96	23.50
		MID	QPSK	21.78	21.97	21.90	23.50
		HIGH	QPSK	21.79	21.84	21.71	23.50
	100	LOW	QPSK	21.79	21.82	21.77	23.50
20	1	LOW	Q16	22.10	22.23	21.90	23.50
		MID	Q16	22.44	**22.45**	22.19	23.50
		HIGH	Q16	22.23	22.17	22.07	23.50
	50	LOW	Q16	20.80	20.95	20.80	22.50
		MID	Q16	20.80	20.96	20.75	22.50
		HIGH	Q16	20.81	20.96	20.64	22.50
	100	LOW	Q16	20.80	20.91	20.76	22.50
20	1	LOW	64QAM	21.10	21.23	20.92	22.50
		MID	64QAM	21.31	**21.60**	21.16	22.50
		HIGH	64QAM	21.37	21.21	21.01	22.50
	50	LOW	64QAM	19.89	20.10	19.90	21.50
		MID	64QAM	19.93	19.99	19.72	21.50
		HIGH	64QAM	19.82	19.96	19.52	21.50
	100	LOW	64QAM	19.66	19.96	19.76	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	QPSK	21.34	21.46	21.45	23.00
		MID	QPSK	21.50	21.49	21.63	23.00
		HIGH	QPSK	21.32	21.38	21.46	23.00
	3	LOW	QPSK	21.41	21.57	21.61	23.00
		MID	QPSK	21.45	21.56	21.72	23.00
		HIGH	QPSK	21.40	21.55	21.67	23.00
	6	LOW	QPSK	21.41	21.43	21.51	23.00
1.4	1	LOW	Q16	21.17	21.68	21.39	23.00
		MID	Q16	21.28	21.78	21.49	23.00
		HIGH	Q16	21.20	21.69	21.37	23.00
	3	LOW	Q16	21.41	21.78	21.78	23.00
		MID	Q16	21.41	21.79	21.84	23.00
		HIGH	Q16	21.39	21.78	21.81	23.00
	6	LOW	Q16	21.03	20.89	21.24	22.50
1.4	1	LOW	64QAM	20.54	21.16	20.82	22.50
		MID	64QAM	20.86	21.39	20.93	22.50
		HIGH	64QAM	20.73	21.14	20.78	22.50
	3	LOW	64QAM	20.86	20.80	20.93	22.50
		MID	64QAM	20.73	20.71	20.72	22.50
		HIGH	64QAM	20.74	20.65	20.75	22.50
	6	LOW	64QAM	19.93	19.91	20.17	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	QPSK	21.14	21.26	21.28	23.00
		MID	QPSK	21.64	21.81	21.59	23.00
		HIGH	QPSK	21.23	21.46	21.37	23.00
	8	LOW	QPSK	21.26	21.49	21.71	23.00
		MID	QPSK	21.48	21.52	21.47	23.00
		HIGH	QPSK	21.26	21.45	21.53	23.00
	15	LOW	QPSK	21.46	21.64	21.55	23.00
3	1	LOW	Q16	21.37	21.70	21.58	23.00
		MID	Q16	21.93	22.08	21.83	23.00
		HIGH	Q16	21.67	21.61	21.78	23.00
	8	LOW	Q16	20.80	21.10	21.04	22.50
		MID	Q16	21.02	21.10	21.15	22.50
		HIGH	Q16	20.79	20.93	20.94	22.50
	15	LOW	Q16	20.77	21.21	21.17	22.50
3	1	LOW	64QAM	21.14	21.19	21.09	22.50
		MID	64QAM	21.33	21.53	21.17	22.50
		HIGH	64QAM	21.12	21.21	21.33	22.50
	8	LOW	64QAM	19.93	20.02	20.12	21.50
		MID	64QAM	19.98	20.19	20.03	21.50
		HIGH	64QAM	19.96	19.90	19.84	21.50
	15	LOW	64QAM	20.01	20.00	19.93	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	QPSK	21.36	21.47	21.38	23.00
		MID	QPSK	21.46	21.58	21.61	23.00
		HIGH	QPSK	21.27	21.54	21.48	23.00
	12	LOW	QPSK	21.53	21.43	21.52	23.00
		MID	QPSK	21.35	21.62	21.65	23.00
		HIGH	QPSK	21.37	21.49	21.47	23.00
	25	LOW	QPSK	21.49	21.59	21.65	23.00
5	1	LOW	Q16	21.64	21.73	21.65	23.00
		MID	Q16	21.89	21.86	21.90	23.00
		HIGH	Q16	21.75	21.77	21.76	23.00
	12	LOW	Q16	20.88	21.26	21.05	22.50
		MID	Q16	20.82	21.23	21.05	22.50
		HIGH	Q16	21.03	21.14	21.01	22.50
	25	LOW	Q16	21.06	21.19	21.06	22.50
5	1	LOW	64QAM	21.06	21.23	21.14	22.50
		MID	64QAM	21.41	21.43	21.47	22.50
		HIGH	64QAM	21.15	21.18	21.19	22.50
	12	LOW	64QAM	19.90	20.06	20.18	21.50
		MID	64QAM	20.08	20.26	20.14	21.50
		HIGH	64QAM	19.81	20.01	20.11	21.50
	25	LOW	64QAM	19.78	20.10	20.04	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	QPSK	21.19	21.23	21.38	23.00
		MID	QPSK	21.69	21.82	21.75	23.00
		HIGH	QPSK	21.46	21.50	21.51	23.00
	25	LOW	QPSK	21.39	21.42	21.55	23.00
		MID	QPSK	21.45	21.54	21.50	23.00
		HIGH	QPSK	21.55	21.63	21.58	23.00
	50	LOW	QPSK	21.52	21.50	21.66	23.00
10	1	LOW	Q16	21.67	21.62	21.54	23.00
		MID	Q16	21.92	21.92	21.84	23.00
		HIGH	Q16	21.78	21.61	21.77	23.00
	25	LOW	Q16	21.01	21.05	21.02	22.50
		MID	Q16	21.01	21.29	21.17	22.50
		HIGH	Q16	21.05	21.20	21.08	22.50
	50	LOW	Q16	21.05	21.20	21.00	22.50
10	1	LOW	64QAM	21.10	21.21	20.92	22.50
		MID	64QAM	21.49	21.36	21.39	22.50
		HIGH	64QAM	21.25	21.06	21.17	22.50
	25	LOW	64QAM	19.84	20.00	20.05	21.50
		MID	64QAM	20.09	20.31	20.14	21.50
		HIGH	64QAM	19.79	19.98	20.01	21.50
	50	LOW	64QAM	19.95	20.05	20.20	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	QPSK	21.25	21.42	21.19	23.00
		MID	QPSK	21.68	21.68	21.63	23.00
		HIGH	QPSK	21.30	21.28	21.56	23.00
	36	LOW	QPSK	21.35	21.66	21.50	23.00
		MID	QPSK	21.30	21.59	21.73	23.00
		HIGH	QPSK	21.52	21.64	21.37	23.00
	75	LOW	QPSK	21.47	21.55	21.62	23.00
15	1	LOW	Q16	21.64	21.69	21.59	23.00
		MID	Q16	22.01	22.06	21.68	23.00
		HIGH	Q16	21.72	21.58	21.57	23.00
	36	LOW	Q16	20.92	21.09	20.98	22.50
		MID	Q16	20.87	21.17	21.08	22.50
		HIGH	Q16	20.88	21.12	21.10	22.50
	75	LOW	Q16	20.96	21.08	21.14	22.50
15	1	LOW	64QAM	21.16	21.34	21.06	22.50
		MID	64QAM	21.33	21.44	21.47	22.50
		HIGH	64QAM	21.21	21.33	21.35	22.50
	36	LOW	64QAM	19.80	20.14	20.17	21.50
		MID	64QAM	19.95	20.28	20.09	21.50
		HIGH	64QAM	20.06	19.93	20.06	21.50
	75	LOW	64QAM	19.96	19.95	20.15	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	QPSK	21.26	21.38	21.29	23.00
		MID	QPSK	21.57	**21.71**	21.67	23.00
		HIGH	QPSK	21.38	21.42	21.42	23.00
	50	LOW	QPSK	21.39	21.52	21.60	23.00
		MID	QPSK	21.43	21.63	21.59	23.00
		HIGH	QPSK	21.41	21.51	21.49	23.00
	100	LOW	QPSK	21.41	21.49	21.54	23.00
20	1	LOW	Q16	21.52	21.69	21.55	23.00
		MID	Q16	21.86	**21.96**	21.82	23.00
		HIGH	Q16	21.70	21.69	21.71	23.00
	50	LOW	Q16	20.93	21.13	21.13	22.50
		MID	Q16	20.94	21.17	21.06	22.50
		HIGH	Q16	20.94	21.05	20.96	22.50
	100	LOW	Q16	20.92	21.07	21.07	22.50
20	1	LOW	64QAM	20.91	21.25	20.97	22.50
		MID	64QAM	**21.47**	21.33	21.38	22.50
		HIGH	64QAM	21.26	21.13	21.22	22.50
	50	LOW	64QAM	19.80	20.21	20.18	21.50
		MID	64QAM	20.08	20.14	20.02	21.50
		HIGH	64QAM	19.80	20.17	20.00	21.50
	100	LOW	64QAM	19.81	20.16	19.99	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	QPSK	21.34	21.46	21.45	23.00
		MID	QPSK	21.50	21.49	21.63	23.00
		HIGH	QPSK	21.32	21.38	21.46	23.00
	3	LOW	QPSK	21.41	21.57	21.61	23.00
		MID	QPSK	21.45	21.56	21.72	23.00
		HIGH	QPSK	21.40	21.55	21.67	23.00
	6	LOW	QPSK	21.41	21.43	21.51	23.00
1.4	1	LOW	Q16	21.17	21.68	21.39	23.00
		MID	Q16	21.28	21.78	21.49	23.00
		HIGH	Q16	21.20	21.69	21.37	23.00
	3	LOW	Q16	21.41	21.78	21.78	23.00
		MID	Q16	21.41	21.79	21.84	23.00
		HIGH	Q16	21.39	21.78	21.81	23.00
	6	LOW	Q16	21.03	20.89	21.24	22.50
1.4	1	LOW	64QAM	20.54	21.16	20.82	22.50
		MID	64QAM	20.86	21.39	20.93	22.50
		HIGH	64QAM	20.73	21.14	20.78	22.50
	3	LOW	64QAM	20.86	20.80	20.93	22.50
		MID	64QAM	20.73	20.71	20.72	22.50
		HIGH	64QAM	20.74	20.65	20.75	22.50
	6	LOW	64QAM	19.93	19.91	20.17	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	QPSK	21.14	21.26	21.28	23.00
		MID	QPSK	21.64	21.81	21.59	23.00
		HIGH	QPSK	21.23	21.46	21.37	23.00
	8	LOW	QPSK	21.26	21.49	21.71	23.00
		MID	QPSK	21.48	21.52	21.47	23.00
		HIGH	QPSK	21.26	21.45	21.53	23.00
	15	LOW	QPSK	21.46	21.64	21.55	23.00
3	1	LOW	Q16	21.37	21.70	21.58	23.00
		MID	Q16	21.93	22.08	21.83	23.00
		HIGH	Q16	21.67	21.61	21.78	23.00
	8	LOW	Q16	20.80	21.10	21.04	22.50
		MID	Q16	21.02	21.10	21.15	22.50
		HIGH	Q16	20.79	20.93	20.94	22.50
	15	LOW	Q16	20.77	21.21	21.17	22.50
3	1	LOW	64QAM	21.14	21.19	21.09	22.50
		MID	64QAM	21.33	21.53	21.17	22.50
		HIGH	64QAM	21.12	21.21	21.33	22.50
	8	LOW	64QAM	19.93	20.02	20.12	21.50
		MID	64QAM	19.98	20.19	20.03	21.50
		HIGH	64QAM	19.96	19.90	19.84	21.50
	15	LOW	64QAM	20.01	20.00	19.93	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	QPSK	21.36	21.47	21.38	23.00
		MID	QPSK	21.46	21.58	21.61	23.00
		HIGH	QPSK	21.27	21.54	21.48	23.00
	12	LOW	QPSK	21.53	21.43	21.52	23.00
		MID	QPSK	21.35	21.62	21.65	23.00
		HIGH	QPSK	21.37	21.49	21.47	23.00
	25	LOW	QPSK	21.49	21.59	21.65	23.00
5	1	LOW	Q16	21.64	21.73	21.65	23.00
		MID	Q16	21.89	21.86	21.90	23.00
		HIGH	Q16	21.75	21.77	21.76	23.00
	12	LOW	Q16	20.88	21.26	21.05	22.50
		MID	Q16	20.82	21.23	21.05	22.50
		HIGH	Q16	21.03	21.14	21.01	22.50
	25	LOW	Q16	21.06	21.19	21.06	22.50
5	1	LOW	64QAM	21.06	21.23	21.14	22.50
		MID	64QAM	21.41	21.43	21.47	22.50
		HIGH	64QAM	21.15	21.18	21.19	22.50
	12	LOW	64QAM	19.90	20.06	20.18	21.50
		MID	64QAM	20.08	20.26	20.14	21.50
		HIGH	64QAM	19.81	20.01	20.11	21.50
	25	LOW	64QAM	19.78	20.10	20.04	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	QPSK	21.19	21.23	21.38	23.00
		MID	QPSK	21.69	21.82	21.75	23.00
		HIGH	QPSK	21.46	21.50	21.51	23.00
	25	LOW	QPSK	21.39	21.42	21.55	23.00
		MID	QPSK	21.45	21.54	21.50	23.00
		HIGH	QPSK	21.55	21.63	21.58	23.00
	50	LOW	QPSK	21.52	21.50	21.66	23.00
10	1	LOW	Q16	21.67	21.62	21.54	23.00
		MID	Q16	21.92	21.92	21.84	23.00
		HIGH	Q16	21.78	21.61	21.77	23.00
	25	LOW	Q16	21.01	21.05	21.02	22.50
		MID	Q16	21.01	21.29	21.17	22.50
		HIGH	Q16	21.05	21.20	21.08	22.50
	50	LOW	Q16	21.05	21.20	21.00	22.50
10	1	LOW	64QAM	21.10	21.21	20.92	22.50
		MID	64QAM	21.49	21.36	21.39	22.50
		HIGH	64QAM	21.25	21.06	21.17	22.50
	25	LOW	64QAM	19.84	20.00	20.05	21.50
		MID	64QAM	20.09	20.31	20.14	21.50
		HIGH	64QAM	19.79	19.98	20.01	21.50
	50	LOW	64QAM	19.95	20.05	20.20	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	QPSK	21.25	21.42	21.19	23.00
		MID	QPSK	21.68	21.68	21.63	23.00
		HIGH	QPSK	21.30	21.28	21.56	23.00
	36	LOW	QPSK	21.35	21.66	21.50	23.00
		MID	QPSK	21.30	21.59	21.73	23.00
		HIGH	QPSK	21.52	21.64	21.37	23.00
	75	LOW	QPSK	21.47	21.55	21.62	23.00
15	1	LOW	Q16	21.64	21.69	21.59	23.00
		MID	Q16	22.01	22.06	21.68	23.00
		HIGH	Q16	21.72	21.58	21.57	23.00
	36	LOW	Q16	20.92	21.09	20.98	22.50
		MID	Q16	20.87	21.17	21.08	22.50
		HIGH	Q16	20.88	21.12	21.10	22.50
	75	LOW	Q16	20.96	21.08	21.14	22.50
15	1	LOW	64QAM	21.16	21.34	21.06	22.50
		MID	64QAM	21.33	21.44	21.47	22.50
		HIGH	64QAM	21.21	21.33	21.35	22.50
	36	LOW	64QAM	19.80	20.14	20.17	21.50
		MID	64QAM	19.95	20.28	20.09	21.50
		HIGH	64QAM	20.06	19.93	20.06	21.50
	75	LOW	64QAM	19.96	19.95	20.15	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	QPSK	21.26	21.38	21.29	23.00
		MID	QPSK	21.57	**21.71**	21.67	23.00
		HIGH	QPSK	21.38	21.42	21.42	23.00
	50	LOW	QPSK	21.39	21.52	21.60	23.00
		MID	QPSK	21.43	21.63	21.59	23.00
		HIGH	QPSK	21.41	21.51	21.49	23.00
	100	LOW	QPSK	21.41	21.49	21.54	23.00
20	1	LOW	Q16	21.52	21.69	21.55	23.00
		MID	Q16	21.86	**21.96**	21.82	23.00
		HIGH	Q16	21.70	21.69	21.71	23.00
	50	LOW	Q16	20.93	21.13	21.13	22.50
		MID	Q16	20.94	21.17	21.06	22.50
		HIGH	Q16	20.94	21.05	20.96	22.50
	100	LOW	Q16	20.92	21.07	21.07	22.50
20	1	LOW	64QAM	20.91	21.25	20.97	22.50
		MID	64QAM	**21.47**	21.33	21.38	22.50
		HIGH	64QAM	21.26	21.13	21.22	22.50
	50	LOW	64QAM	19.80	20.21	20.18	21.50
		MID	64QAM	20.08	20.14	20.02	21.50
		HIGH	64QAM	19.80	20.17	20.00	21.50
	100	LOW	64QAM	19.81	20.16	19.99	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	QPSK	21.34	21.46	21.45	23.00
		MID	QPSK	21.50	21.49	21.63	23.00
		HIGH	QPSK	21.32	21.38	21.46	23.00
	3	LOW	QPSK	21.41	21.57	21.61	23.00
		MID	QPSK	21.45	21.56	21.72	23.00
		HIGH	QPSK	21.40	21.55	21.67	23.00
	6	LOW	QPSK	21.41	21.43	21.51	23.00
1.4	1	LOW	Q16	21.17	21.68	21.39	23.00
		MID	Q16	21.28	21.78	21.49	23.00
		HIGH	Q16	21.20	21.69	21.37	23.00
	3	LOW	Q16	21.41	21.78	21.78	23.00
		MID	Q16	21.41	21.79	21.84	23.00
		HIGH	Q16	21.39	21.78	21.81	23.00
	6	LOW	Q16	21.03	20.89	21.24	22.50
1.4	1	LOW	64QAM	20.54	21.16	20.82	22.50
		MID	64QAM	20.86	21.39	20.93	22.50
		HIGH	64QAM	20.73	21.14	20.78	22.50
	3	LOW	64QAM	20.86	20.80	20.93	22.50
		MID	64QAM	20.73	20.71	20.72	22.50
		HIGH	64QAM	20.74	20.65	20.75	22.50
	6	LOW	64QAM	19.93	19.91	20.17	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	QPSK	21.14	21.26	21.28	23.00
		MID	QPSK	21.64	21.81	21.59	23.00
		HIGH	QPSK	21.23	21.46	21.37	23.00
	8	LOW	QPSK	21.26	21.49	21.71	23.00
		MID	QPSK	21.48	21.52	21.47	23.00
		HIGH	QPSK	21.26	21.45	21.53	23.00
	15	LOW	QPSK	21.46	21.64	21.55	23.00
3	1	LOW	Q16	21.37	21.70	21.58	23.00
		MID	Q16	21.93	22.08	21.83	23.00
		HIGH	Q16	21.67	21.61	21.78	23.00
	8	LOW	Q16	20.80	21.10	21.04	22.50
		MID	Q16	21.02	21.10	21.15	22.50
		HIGH	Q16	20.79	20.93	20.94	22.50
	15	LOW	Q16	20.77	21.21	21.17	22.50
3	1	LOW	64QAM	21.14	21.19	21.09	22.50
		MID	64QAM	21.33	21.53	21.17	22.50
		HIGH	64QAM	21.12	21.21	21.33	22.50
	8	LOW	64QAM	19.93	20.02	20.12	21.50
		MID	64QAM	19.98	20.19	20.03	21.50
		HIGH	64QAM	19.96	19.90	19.84	21.50
	15	LOW	64QAM	20.01	20.00	19.93	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	QPSK	21.36	21.47	21.38	23.00
		MID	QPSK	21.46	21.58	21.61	23.00
		HIGH	QPSK	21.27	21.54	21.48	23.00
	12	LOW	QPSK	21.53	21.43	21.52	23.00
		MID	QPSK	21.35	21.62	21.65	23.00
		HIGH	QPSK	21.37	21.49	21.47	23.00
	25	LOW	QPSK	21.49	21.59	21.65	23.00
5	1	LOW	Q16	21.64	21.73	21.65	23.00
		MID	Q16	21.89	21.86	21.90	23.00
		HIGH	Q16	21.75	21.77	21.76	23.00
	12	LOW	Q16	20.88	21.26	21.05	22.50
		MID	Q16	20.82	21.23	21.05	22.50
		HIGH	Q16	21.03	21.14	21.01	22.50
	25	LOW	Q16	21.06	21.19	21.06	22.50
5	1	LOW	64QAM	21.06	21.23	21.14	22.50
		MID	64QAM	21.41	21.43	21.47	22.50
		HIGH	64QAM	21.15	21.18	21.19	22.50
	12	LOW	64QAM	19.90	20.06	20.18	21.50
		MID	64QAM	20.08	20.26	20.14	21.50
		HIGH	64QAM	19.81	20.01	20.11	21.50
	25	LOW	64QAM	19.78	20.10	20.04	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	QPSK	21.19	21.23	21.38	23.00
		MID	QPSK	21.69	21.82	21.75	23.00
		HIGH	QPSK	21.46	21.50	21.51	23.00
	25	LOW	QPSK	21.39	21.42	21.55	23.00
		MID	QPSK	21.45	21.54	21.50	23.00
		HIGH	QPSK	21.55	21.63	21.58	23.00
	50	LOW	QPSK	21.52	21.50	21.66	23.00
10	1	LOW	Q16	21.67	21.62	21.54	23.00
		MID	Q16	21.92	21.92	21.84	23.00
		HIGH	Q16	21.78	21.61	21.77	23.00
	25	LOW	Q16	21.01	21.05	21.02	22.50
		MID	Q16	21.01	21.29	21.17	22.50
		HIGH	Q16	21.05	21.20	21.08	22.50
	50	LOW	Q16	21.05	21.20	21.00	22.50
10	1	LOW	64QAM	21.10	21.21	20.92	22.50
		MID	64QAM	21.49	21.36	21.39	22.50
		HIGH	64QAM	21.25	21.06	21.17	22.50
	25	LOW	64QAM	19.84	20.00	20.05	21.50
		MID	64QAM	20.09	20.31	20.14	21.50
		HIGH	64QAM	19.79	19.98	20.01	21.50
	50	LOW	64QAM	19.95	20.05	20.20	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	QPSK	21.25	21.42	21.19	23.00
		MID	QPSK	21.68	21.68	21.63	23.00
		HIGH	QPSK	21.30	21.28	21.56	23.00
	36	LOW	QPSK	21.35	21.66	21.50	23.00
		MID	QPSK	21.30	21.59	21.73	23.00
		HIGH	QPSK	21.52	21.64	21.37	23.00
	75	LOW	QPSK	21.47	21.55	21.62	23.00
15	1	LOW	Q16	21.64	21.69	21.59	23.00
		MID	Q16	22.01	22.06	21.68	23.00
		HIGH	Q16	21.72	21.58	21.57	23.00
	36	LOW	Q16	20.92	21.09	20.98	22.50
		MID	Q16	20.87	21.17	21.08	22.50
		HIGH	Q16	20.88	21.12	21.10	22.50
	75	LOW	Q16	20.96	21.08	21.14	22.50
15	1	LOW	64QAM	21.16	21.34	21.06	22.50
		MID	64QAM	21.33	21.44	21.47	22.50
		HIGH	64QAM	21.21	21.33	21.35	22.50
	36	LOW	64QAM	19.80	20.14	20.17	21.50
		MID	64QAM	19.95	20.28	20.09	21.50
		HIGH	64QAM	20.06	19.93	20.06	21.50
	75	LOW	64QAM	19.96	19.95	20.15	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	QPSK	21.26	21.38	21.29	23.00
		MID	QPSK	21.57	**21.71**	21.67	23.00
		HIGH	QPSK	21.38	21.42	21.42	23.00
	50	LOW	QPSK	21.39	21.52	21.60	23.00
		MID	QPSK	21.43	21.63	21.59	23.00
		HIGH	QPSK	21.41	21.51	21.49	23.00
	100	LOW	QPSK	21.41	21.49	21.54	23.00
20	1	LOW	Q16	21.52	21.69	21.55	23.00
		MID	Q16	21.86	**21.96**	21.82	23.00
		HIGH	Q16	21.70	21.69	21.71	23.00
	50	LOW	Q16	20.93	21.13	21.13	22.50
		MID	Q16	20.94	21.17	21.06	22.50
		HIGH	Q16	20.94	21.05	20.96	22.50
	100	LOW	Q16	20.92	21.07	21.07	22.50
20	1	LOW	64QAM	20.91	21.25	20.97	22.50
		MID	64QAM	**21.47**	21.33	21.38	22.50
		HIGH	64QAM	21.26	21.13	21.22	22.50
	50	LOW	64QAM	19.80	20.21	20.18	21.50
		MID	64QAM	20.08	20.14	20.02	21.50
		HIGH	64QAM	19.80	20.17	20.00	21.50
	100	LOW	64QAM	19.81	20.16	19.99	21.50

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Bandwidth(MHz)	RB Size	RB offest	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	QPSK	21.34	21.46	21.45	23.00
		MID	QPSK	21.50	21.49	21.63	23.00
		HIGH	QPSK	21.32	21.38	21.46	23.00
	3	LOW	QPSK	21.41	21.57	21.61	23.00
		MID	QPSK	21.45	21.56	21.72	23.00
		HIGH	QPSK	21.40	21.55	21.67	23.00
	6	LOW	QPSK	21.41	21.43	21.51	23.00
1.4	1	LOW	Q16	21.17	21.68	21.39	23.00
		MID	Q16	21.28	21.78	21.49	23.00
		HIGH	Q16	21.20	21.69	21.37	23.00
	3	LOW	Q16	21.41	21.78	21.78	23.00
		MID	Q16	21.41	21.79	21.84	23.00
		HIGH	Q16	21.39	21.78	21.81	23.00
	6	LOW	Q16	21.03	20.89	21.24	22.50
1.4	1	LOW	64QAM	20.54	21.16	20.82	22.50
		MID	64QAM	20.86	21.39	20.93	22.50
		HIGH	64QAM	20.73	21.14	20.78	22.50
	3	LOW	64QAM	20.86	20.80	20.93	22.50
		MID	64QAM	20.73	20.71	20.72	22.50
		HIGH	64QAM	20.74	20.65	20.75	22.50
	6	LOW	64QAM	19.93	19.91	20.17	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	QPSK	21.14	21.26	21.28	23.00
		MID	QPSK	21.64	21.81	21.59	23.00
		HIGH	QPSK	21.23	21.46	21.37	23.00
	8	LOW	QPSK	21.26	21.49	21.71	23.00
		MID	QPSK	21.48	21.52	21.47	23.00
		HIGH	QPSK	21.26	21.45	21.53	23.00
	15	LOW	QPSK	21.46	21.64	21.55	23.00
3	1	LOW	Q16	21.37	21.70	21.58	23.00
		MID	Q16	21.93	22.08	21.83	23.00
		HIGH	Q16	21.67	21.61	21.78	23.00
	8	LOW	Q16	20.80	21.10	21.04	22.50
		MID	Q16	21.02	21.10	21.15	22.50
		HIGH	Q16	20.79	20.93	20.94	22.50
	15	LOW	Q16	20.77	21.21	21.17	22.50
3	1	LOW	64QAM	21.14	21.19	21.09	22.50
		MID	64QAM	21.33	21.53	21.17	22.50
		HIGH	64QAM	21.12	21.21	21.33	22.50
	8	LOW	64QAM	19.93	20.02	20.12	21.50
		MID	64QAM	19.98	20.19	20.03	21.50
		HIGH	64QAM	19.96	19.90	19.84	21.50
	15	LOW	64QAM	20.01	20.00	19.93	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	QPSK	21.36	21.47	21.38	23.00
		MID	QPSK	21.46	21.58	21.61	23.00
		HIGH	QPSK	21.27	21.54	21.48	23.00
	12	LOW	QPSK	21.53	21.43	21.52	23.00
		MID	QPSK	21.35	21.62	21.65	23.00
		HIGH	QPSK	21.37	21.49	21.47	23.00
	25	LOW	QPSK	21.49	21.59	21.65	23.00
5	1	LOW	Q16	21.64	21.73	21.65	23.00
		MID	Q16	21.89	21.86	21.90	23.00
		HIGH	Q16	21.75	21.77	21.76	23.00
	12	LOW	Q16	20.88	21.26	21.05	22.50
		MID	Q16	20.82	21.23	21.05	22.50
		HIGH	Q16	21.03	21.14	21.01	22.50
	25	LOW	Q16	21.06	21.19	21.06	22.50
5	1	LOW	64QAM	21.06	21.23	21.14	22.50
		MID	64QAM	21.41	21.43	21.47	22.50
		HIGH	64QAM	21.15	21.18	21.19	22.50
	12	LOW	64QAM	19.90	20.06	20.18	21.50
		MID	64QAM	20.08	20.26	20.14	21.50
		HIGH	64QAM	19.81	20.01	20.11	21.50
	25	LOW	64QAM	19.78	20.10	20.04	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	QPSK	21.19	21.23	21.38	23.00
		MID	QPSK	21.69	21.82	21.75	23.00
		HIGH	QPSK	21.46	21.50	21.51	23.00
	25	LOW	QPSK	21.39	21.42	21.55	23.00
		MID	QPSK	21.45	21.54	21.50	23.00
		HIGH	QPSK	21.55	21.63	21.58	23.00
	50	LOW	QPSK	21.52	21.50	21.66	23.00
10	1	LOW	Q16	21.67	21.62	21.54	23.00
		MID	Q16	21.92	21.92	21.84	23.00
		HIGH	Q16	21.78	21.61	21.77	23.00
	25	LOW	Q16	21.01	21.05	21.02	22.50
		MID	Q16	21.01	21.29	21.17	22.50
		HIGH	Q16	21.05	21.20	21.08	22.50
	50	LOW	Q16	21.05	21.20	21.00	22.50
10	1	LOW	64QAM	21.10	21.21	20.92	22.50
		MID	64QAM	21.49	21.36	21.39	22.50
		HIGH	64QAM	21.25	21.06	21.17	22.50
	25	LOW	64QAM	19.84	20.00	20.05	21.50
		MID	64QAM	20.09	20.31	20.14	21.50
		HIGH	64QAM	19.79	19.98	20.01	21.50
	50	LOW	64QAM	19.95	20.05	20.20	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	QPSK	21.25	21.42	21.19	23.00
		MID	QPSK	21.68	21.68	21.63	23.00
		HIGH	QPSK	21.30	21.28	21.56	23.00
	36	LOW	QPSK	21.35	21.66	21.50	23.00
		MID	QPSK	21.30	21.59	21.73	23.00
		HIGH	QPSK	21.52	21.64	21.37	23.00
	75	LOW	QPSK	21.47	21.55	21.62	23.00
15	1	LOW	Q16	21.64	21.69	21.59	23.00
		MID	Q16	22.01	22.06	21.68	23.00
		HIGH	Q16	21.72	21.58	21.57	23.00
	36	LOW	Q16	20.92	21.09	20.98	22.50
		MID	Q16	20.87	21.17	21.08	22.50
		HIGH	Q16	20.88	21.12	21.10	22.50
	75	LOW	Q16	20.96	21.08	21.14	22.50
15	1	LOW	64QAM	21.16	21.34	21.06	22.50
		MID	64QAM	21.33	21.44	21.47	22.50
		HIGH	64QAM	21.21	21.33	21.35	22.50
	36	LOW	64QAM	19.80	20.14	20.17	21.50
		MID	64QAM	19.95	20.28	20.09	21.50
		HIGH	64QAM	20.06	19.93	20.06	21.50
	75	LOW	64QAM	19.96	19.95	20.15	21.50
Bandwidth(MHz)	RB Size	RB offest	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	QPSK	21.26	21.38	21.29	23.00
		MID	QPSK	21.57	**21.71**	21.67	23.00
		HIGH	QPSK	21.38	21.42	21.42	23.00
	50	LOW	QPSK	21.39	21.52	21.60	23.00
		MID	QPSK	21.43	21.63	21.59	23.00
		HIGH	QPSK	21.41	21.51	21.49	23.00
	100	LOW	QPSK	21.41	21.49	21.54	23.00
20	1	LOW	Q16	21.52	21.69	21.55	23.00
		MID	Q16	21.86	**21.96**	21.82	23.00
		HIGH	Q16	21.70	21.69	21.71	23.00
	50	LOW	Q16	20.93	21.13	21.13	22.50
		MID	Q16	20.94	21.17	21.06	22.50
		HIGH	Q16	20.94	21.05	20.96	22.50
	100	LOW	Q16	20.92	21.07	21.07	22.50
20	1	LOW	64QAM	20.91	21.25	20.97	22.50
		MID	64QAM	**21.47**	21.33	21.38	22.50
		HIGH	64QAM	21.26	21.13	21.22	22.50
	50	LOW	64QAM	19.80	20.21	20.18	21.50
		MID	64QAM	20.08	20.14	20.02	21.50
		HIGH	64QAM	19.80	20.17	20.00	21.50
	100	LOW	64QAM	19.81	20.16	19.99	21.50

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Bandwidth (MHz)	RB Size	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	QPSK	23.04	22.99	22.92	24.00
		MID	QPSK	**23.43**	23.24	23.42	24.00
		HIGH	QPSK	22.82	22.65	23.08	24.00
	12	LOW	QPSK	22.18	22.21	22.03	23.00
		MID	QPSK	22.07	21.83	21.96	23.00
		HIGH	QPSK	22.18	22.11	22.08	23.00
	25	LOW	QPSK	22.13	21.87	21.96	23.00
5	1	LOW	Q16	22.26	21.91	22.21	23.00
		MID	Q16	22.41	22.33	22.32	23.00
		HIGH	Q16	22.15	21.70	22.20	23.00
	12	LOW	Q16	21.13	21.03	21.10	22.00
		MID	Q16	21.08	21.18	20.90	22.00
		HIGH	Q16	21.07	20.94	20.96	22.00
	25	LOW	Q16	21.06	21.05	20.95	22.00
5	1	LOW	64QAM	21.03	21.11	21.20	22.00
		MID	64QAM	21.62	21.26	21.52	22.00
		HIGH	64QAM	20.93	20.79	21.16	22.00
	12	LOW	64QAM	20.20	19.97	20.02	21.00
		MID	64QAM	20.16	19.95	19.86	21.00
		HIGH	64QAM	19.98	19.89	20.01	21.00
	25	LOW	64QAM	20.01	19.84	20.12	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	QPSK	23.16	23.01	23.02	24.00
		MID	QPSK	**23.33**	23.22	23.31	24.00
		HIGH	QPSK	23.04	22.96	23.11	24.00
	25	LOW	QPSK	22.12	22.02	22.04	23.00
		MID	QPSK	21.96	21.95	21.95	23.00
		HIGH	QPSK	21.90	22.03	22.08	23.00
	50	LOW	QPSK	22.04	21.84	22.05	23.00
10	1	LOW	Q16	22.24	22.20	22.22	23.00
		MID	Q16	22.28	22.23	22.57	23.00
		HIGH	Q16	22.20	21.86	22.35	23.00
	25	LOW	Q16	20.80	21.06	21.02	22.00
		MID	Q16	20.91	21.07	21.11	22.00
		HIGH	Q16	20.85	21.17	21.08	22.00
	50	LOW	Q16	20.90	21.05	21.09	22.00
10	1	LOW	64QAM	21.03	21.22	21.20	22.00
		MID	64QAM	21.45	21.34	21.32	22.00
		HIGH	64QAM	20.95	21.01	21.07	22.00
	25	LOW	64QAM	20.03	20.21	19.90	21.00
		MID	64QAM	20.19	20.22	20.15	21.00
		HIGH	64QAM	20.03	19.84	19.99	21.00
	50	LOW	64QAM	20.11	20.01	19.99	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	QPSK	22.85	23.15	22.98	24.00
		MID	QPSK	23.37	23.31	**23.40**	24.00
		HIGH	QPSK	22.88	22.89	23.04	24.00
	36	LOW	QPSK	22.04	22.21	21.95	23.00
		MID	QPSK	22.02	22.02	22.06	23.00
		HIGH	QPSK	21.99	21.97	22.04	23.00
	75	LOW	QPSK	22.13	21.95	21.93	23.00
15	1	LOW	Q16	22.28	22.09	22.16	23.00
		MID	Q16	22.36	22.49	22.48	23.00
		HIGH	Q16	22.05	21.82	22.07	23.00
	36	LOW	Q16	20.99	21.06	20.92	22.00
		MID	Q16	21.17	21.03	20.98	22.00
		HIGH	Q16	21.09	21.05	21.01	22.00
	75	LOW	Q16	21.08	21.15	21.04	22.00
15	1	LOW	64QAM	21.28	21.09	21.08	22.00
		MID	64QAM	21.40	21.35	21.39	22.00
		HIGH	64QAM	20.96	20.96	21.27	22.00
	36	LOW	64QAM	20.05	20.27	19.72	21.00
		MID	64QAM	20.01	19.86	19.92	21.00
		HIGH	64QAM	20.13	19.95	19.98	21.00
	75	LOW	64QAM	20.08	19.91	19.93	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	QPSK	23.07	22.95	22.92	24.00
		MID	QPSK	23.29	23.23	**23.31**	24.00
		HIGH	QPSK	22.94	22.82	23.01	24.00
	50	LOW	QPSK	21.99	22.01	21.91	23.00
		MID	QPSK	22.09	22.07	22.13	23.00
		HIGH	QPSK	22.03	21.96	22.08	23.00
	100	LOW	QPSK	22.14	21.94	22.07	23.00
20	1	LOW	Q16	22.09	22.08	22.14	23.00
		MID	Q16	**22.54**	22.26	22.46	23.00
		HIGH	Q16	22.05	21.91	22.16	23.00
	50	LOW	Q16	21.09	21.01	20.89	22.00
		MID	Q16	21.07	21.11	20.99	22.00
		HIGH	Q16	20.98	20.98	20.95	22.00
	100	LOW	Q16	21.12	21.08	20.99	22.00
20	1	LOW	64QAM	21.04	21.04	21.02	22.00
		MID	64QAM	**21.65**	21.32	21.56	22.00
		HIGH	64QAM	21.21	20.70	21.14	22.00
	50	LOW	64QAM	20.18	20.04	19.93	21.00
		MID	64QAM	19.93	19.96	20.08	21.00
		HIGH	64QAM	20.06	19.83	19.88	21.00
	100	LOW	64QAM	20.19	20.01	20.04	21.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	0	QPSK	19.26	19.31	19.22	20.50
		MID	12	QPSK	19.66	19.53	19.70	20.50
		HIGH	24	QPSK	19.32	19.26	19.59	20.50
	12	LOW	0	QPSK	19.44	19.30	19.42	20.50
		MID	7	QPSK	19.48	19.32	19.30	20.50
		HIGH	13	QPSK	19.30	19.29	19.48	20.50
	25	LOW	0	QPSK	19.31	19.20	19.51	20.50
5	1	LOW	0	Q16	19.33	19.36	19.49	20.50
		MID	12	Q16	**19.89**	19.78	19.81	20.50
		HIGH	24	Q16	19.51	19.12	19.68	20.50
	12	LOW	0	Q16	19.30	19.36	19.42	20.50
		MID	7	Q16	19.50	19.52	19.48	20.50
		HIGH	13	Q16	19.37	19.37	19.48	20.50
	25	LOW	0	Q16	19.44	19.34	19.21	20.50
5	1	LOW	0	64QAM	19.38	19.25	19.33	20.50
		MID	12	64QAM	19.75	19.76	19.70	20.50
		HIGH	24	64QAM	19.54	19.20	19.65	20.50
	12	LOW	0	64QAM	19.40	19.57	19.47	20.50
		MID	7	64QAM	19.58	19.43	19.48	20.50
		HIGH	13	64QAM	19.54	19.21	19.48	20.50
	25	LOW	0	64QAM	19.36	19.38	19.23	20.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	0	QPSK	19.31	19.36	19.42	20.50
		MID	25	QPSK	19.55	19.58	19.88	20.50
		HIGH	49	QPSK	19.38	19.31	19.48	20.50
	25	LOW	0	QPSK	19.55	19.42	19.28	20.50
		MID	12	QPSK	19.42	19.26	19.48	20.50
		HIGH	25	QPSK	19.53	19.33	19.35	20.50
	50	LOW	0	QPSK	19.35	19.24	19.30	20.50
10	1	LOW	0	Q16	19.49	19.21	19.46	20.50
		MID	25	Q16	19.71	19.57	**19.94**	20.50
		HIGH	49	Q16	19.58	19.20	19.40	20.50
	25	LOW	0	Q16	19.28	19.33	19.39	20.50
		MID	12	Q16	19.31	19.30	19.54	20.50
		HIGH	25	Q16	19.40	19.31	19.32	20.50
	50	LOW	0	Q16	19.44	19.34	19.48	20.50
10	1	LOW	0	64QAM	19.61	19.28	19.56	20.50
		MID	25	64QAM	19.91	19.77	19.84	20.50
		HIGH	49	64QAM	19.30	19.15	19.65	20.50
	25	LOW	0	64QAM	19.33	19.50	19.26	20.50
		MID	12	64QAM	19.34	19.42	19.37	20.50
		HIGH	25	64QAM	19.42	19.22	19.51	20.50
	50	LOW	0	64QAM	19.41	19.25	19.31	20.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	0	QPSK	19.31	19.31	19.47	20.50
		MID	37	QPSK	19.83	19.62	19.59	20.50
		HIGH	74	QPSK	19.20	19.11	19.31	20.50
	36	LOW	0	QPSK	19.38	19.45	19.16	20.50
		MID	20	QPSK	19.59	19.37	19.35	20.50
		HIGH	39	QPSK	19.45	19.21	19.26	20.50
	75	LOW	0	QPSK	19.44	19.43	19.22	20.50
15	1	LOW	0	Q16	19.46	19.21	19.33	20.50
		MID	37	Q16	19.83	19.74	19.80	20.50
		HIGH	74	Q16	19.59	19.21	19.63	20.50
	36	LOW	0	Q16	19.48	19.47	19.48	20.50
		MID	20	Q16	19.55	19.42	19.43	20.50
		HIGH	39	Q16	19.55	19.44	19.57	20.50
	75	LOW	0	Q16	19.44	19.42	19.28	20.50
15	1	LOW	0	64QAM	19.59	19.48	19.49	20.50
		MID	37	64QAM	19.67	19.59	**19.99**	20.50
		HIGH	74	64QAM	19.36	19.20	19.49	20.50
	36	LOW	0	64QAM	19.47	19.53	19.35	20.50
		MID	20	64QAM	19.52	19.46	19.45	20.50
		HIGH	39	64QAM	19.43	19.28	19.34	20.50
	75	LOW	0	64QAM	19.32	19.45	19.34	20.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	0	QPSK	19.34	19.36	19.32	20.50
		MID	49	QPSK	19.68	19.62	**19.74**	20.50
		HIGH	99	QPSK	19.29	19.23	19.44	20.50
	50	LOW	0	QPSK	19.43	19.43	19.29	20.50
		MID	24	QPSK	19.44	19.38	19.48	20.50
		HIGH	50	QPSK	19.41	19.34	19.41	20.50
	100	LOW	0	QPSK	19.42	19.35	19.36	20.50
20	1	LOW	0	Q16	19.48	19.34	19.43	20.50
		MID	49	Q16	19.81	19.65	**19.85**	20.50
		HIGH	99	Q16	19.44	19.25	19.55	20.50
	50	LOW	0	Q16	19.43	19.42	19.35	20.50
		MID	24	Q16	19.44	19.39	19.45	20.50
		HIGH	50	Q16	19.41	19.34	19.45	20.50
	100	LOW	0	Q16	19.40	19.35	19.34	20.50
20	1	LOW	0	64QAM	19.41	19.19	19.55	20.50
		MID	49	64QAM	**19.85**	19.65	19.76	20.50
		HIGH	99	64QAM	19.38	19.36	19.56	20.50
	50	LOW	0	64QAM	19.58	19.53	19.48	20.50
		MID	24	64QAM	19.41	19.27	19.45	20.50
		HIGH	50	64QAM	19.54	19.48	19.39	20.50
	100	LOW	0	64QAM	19.45	19.27	19.46	20.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	0	QPSK	18.77	18.84	18.89	19.50
		MID	12	QPSK	19.12	19.25	19.16	19.50
		HIGH	24	QPSK	18.94	18.79	19.06	19.50
	12	LOW	0	QPSK	18.90	19.07	18.97	19.50
		MID	7	QPSK	18.90	18.81	18.89	19.50
		HIGH	13	QPSK	18.97	18.68	19.03	19.50
	25	LOW	0	QPSK	18.78	18.96	18.95	19.50
5	1	LOW	0	Q16	19.07	18.76	19.10	19.50
		MID	12	Q16	19.29	19.24	19.41	19.50
		HIGH	24	Q16	18.93	18.71	19.17	19.50
	12	LOW	0	Q16	18.86	19.07	18.94	19.50
		MID	7	Q16	18.92	18.96	19.00	19.50
		HIGH	13	Q16	18.92	18.96	19.07	19.50
	25	LOW	0	Q16	18.96	18.93	18.84	19.50
5	1	LOW	0	64QAM	19.18	18.99	18.87	19.50
		MID	12	64QAM	19.27	19.24	19.30	19.50
		HIGH	24	64QAM	19.08	18.91	18.96	19.50
	12	LOW	0	64QAM	18.93	18.89	19.03	19.50
		MID	7	64QAM	18.97	18.97	18.97	19.50
		HIGH	13	64QAM	18.97	19.02	19.10	19.50
	25	LOW	0	64QAM	19.03	19.03	18.80	19.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	0	QPSK	18.84	18.70	18.90	19.50
		MID	25	QPSK	19.10	19.29	19.19	19.50
		HIGH	49	QPSK	18.89	18.69	18.98	19.50
	25	LOW	0	QPSK	18.83	18.83	18.90	19.50
		MID	12	QPSK	18.90	18.77	19.02	19.50
		HIGH	25	QPSK	19.01	18.88	18.82	19.50
	50	LOW	0	QPSK	18.94	18.85	18.99	19.50
10	1	LOW	0	Q16	18.94	19.01	18.92	19.50
		MID	25	Q16	19.42	19.16	19.45	19.50
		HIGH	49	Q16	18.93	18.73	18.97	19.50
	25	LOW	0	Q16	18.85	19.00	18.90	19.50
		MID	12	Q16	19.12	18.96	19.05	19.50
		HIGH	25	Q16	18.83	18.72	19.00	19.50
	50	LOW	0	Q16	19.08	18.89	18.84	19.50
10	1	LOW	0	64QAM	18.96	18.98	18.97	19.50
		MID	25	64QAM	19.35	19.24	19.38	19.50
		HIGH	49	64QAM	18.91	18.88	19.01	19.50
	25	LOW	0	64QAM	19.10	18.83	18.95	19.50
		MID	12	64QAM	18.88	19.04	19.11	19.50
		HIGH	25	64QAM	18.88	18.75	19.05	19.50
	50	LOW	0	64QAM	18.85	18.86	18.79	19.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	0	QPSK	18.94	18.92	18.97	19.50
		MID	37	QPSK	19.22	19.06	19.22	19.50
		HIGH	74	QPSK	18.88	18.67	18.85	19.50
	36	LOW	0	QPSK	18.92	18.95	18.98	19.50
		MID	20	QPSK	18.96	18.87	18.80	19.50
		HIGH	39	QPSK	18.89	18.90	18.78	19.50
	75	LOW	0	QPSK	18.82	18.97	18.99	19.50
15	1	LOW	0	Q16	18.88	18.92	19.11	19.50
		MID	37	Q16	19.36	19.22	19.32	19.50
		HIGH	74	Q16	18.99	18.87	19.24	19.50
	36	LOW	0	Q16	18.82	19.02	19.01	19.50
		MID	20	Q16	19.12	18.88	18.98	19.50
		HIGH	39	Q16	18.93	18.84	18.98	19.50
	75	LOW	0	Q16	19.09	18.90	18.91	19.50
15	1	LOW	0	64QAM	18.99	18.87	18.82	19.50
		MID	37	64QAM	19.48	19.22	19.40	19.50
		HIGH	74	64QAM	18.89	18.66	19.09	19.50
	36	LOW	0	64QAM	19.11	18.85	18.74	19.50
		MID	20	64QAM	18.85	18.78	18.84	19.50
		HIGH	39	64QAM	19.07	18.75	18.96	19.50
	75	LOW	0	64QAM	19.08	18.78	18.91	19.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	0	QPSK	18.90	18.84	18.86	19.50
		MID	49	QPSK	19.19	19.15	**19.25**	19.50
		HIGH	99	QPSK	18.84	18.78	18.98	19.50
	50	LOW	0	QPSK	18.93	18.93	18.83	19.50
		MID	24	QPSK	18.95	18.91	18.99	19.50
		HIGH	50	QPSK	18.88	18.81	18.89	19.50
	100	LOW	0	QPSK	18.93	18.86	18.89	19.50
20	1	LOW	0	Q16	19.03	18.90	18.97	19.50
		MID	49	Q16	19.34	19.19	**19.39**	19.50
		HIGH	99	Q16	18.97	18.80	19.09	19.50
	50	LOW	0	Q16	18.96	18.98	18.89	19.50
		MID	24	Q16	18.97	18.93	18.99	19.50
		HIGH	50	Q16	18.94	18.87	18.97	19.50
	100	LOW	0	Q16	18.95	18.90	18.88	19.50
20	1	LOW	0	64QAM	18.99	18.90	18.86	19.50
		MID	49	64QAM	**19.26**	19.23	19.25	19.50
		HIGH	99	64QAM	18.96	18.75	18.94	19.50
	50	LOW	0	64QAM	18.89	19.04	19.04	19.50
		MID	24	64QAM	18.97	18.80	19.08	19.50
		HIGH	50	64QAM	18.85	18.72	18.85	19.50
	100	LOW	0	64QAM	18.94	18.76	18.90	19.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	0	QPSK	21.70	21.48	21.46	22.50
		MID	12	QPSK	21.89	21.99	22.07	22.50
		HIGH	24	QPSK	21.62	21.59	21.77	22.50
	12	LOW	0	QPSK	21.73	21.55	21.44	22.50
		MID	7	QPSK	21.76	21.75	21.66	22.50
		HIGH	13	QPSK	21.72	21.53	21.82	22.50
	25	LOW	0	QPSK	21.57	21.62	21.75	22.50
5	1	LOW	0	Q16	21.76	21.47	21.68	22.50
		MID	12	Q16	22.12	21.88	22.16	22.50
		HIGH	24	Q16	21.84	21.62	21.99	22.50
	12	LOW	0	Q16	21.04	21.26	21.22	22.00
		MID	7	Q16	21.14	21.12	21.22	22.00
		HIGH	13	Q16	21.31	21.20	21.26	22.00
	25	LOW	0	Q16	21.02	20.99	20.98	22.00
5	1	LOW	0	64QAM	21.11	21.06	21.08	22.00
		MID	12	64QAM	21.60	21.38	21.65	22.00
		HIGH	24	64QAM	21.28	21.11	21.51	22.00
	12	LOW	0	64QAM	20.16	20.16	20.10	21.00
		MID	7	64QAM	20.29	20.20	20.24	21.00
		HIGH	13	64QAM	20.15	20.00	20.08	21.00
	25	LOW	0	64QAM	20.11	20.20	19.98	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	0	QPSK	21.61	21.58	21.75	22.50
		MID	25	QPSK	22.12	21.92	22.17	22.50
		HIGH	49	QPSK	21.45	21.54	21.69	22.50
	25	LOW	0	QPSK	21.80	21.63	21.48	22.50
		MID	12	QPSK	21.79	21.69	21.83	22.50
		HIGH	25	QPSK	21.77	21.64	21.63	22.50
	50	LOW	0	QPSK	21.58	21.51	21.58	22.50
10	1	LOW	0	Q16	21.90	21.48	21.59	22.50
		MID	25	Q16	22.25	22.02	22.23	22.50
		HIGH	49	Q16	21.84	21.45	21.77	22.50
	25	LOW	0	Q16	21.20	21.19	20.95	22.00
		MID	12	Q16	21.05	21.02	21.10	22.00
		HIGH	25	Q16	21.08	21.09	21.27	22.00
	50	LOW	0	Q16	21.20	21.18	21.11	22.00
10	1	LOW	0	64QAM	21.38	21.15	21.16	22.00
		MID	25	64QAM	21.57	21.49	21.66	22.00
		HIGH	49	64QAM	21.21	21.12	21.49	22.00
	25	LOW	0	64QAM	20.04	20.08	20.07	21.00
		MID	12	64QAM	20.18	20.01	20.18	21.00
		HIGH	25	64QAM	20.15	20.00	20.33	21.00
	50	LOW	0	64QAM	20.05	19.96	19.97	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	0	QPSK	21.57	21.54	21.56	22.50
		MID	37	QPSK	22.09	22.08	22.14	22.50
		HIGH	74	QPSK	21.56	21.38	21.63	22.50
	36	LOW	0	QPSK	21.66	21.76	21.61	22.50
		MID	20	QPSK	21.81	21.57	21.65	22.50
		HIGH	39	QPSK	21.77	21.53	21.70	22.50
	75	LOW	0	QPSK	21.78	21.77	21.55	22.50
15	1	LOW	0	Q16	21.80	21.76	21.59	22.50
		MID	37	Q16	22.11	22.06	22.29	22.50
		HIGH	74	Q16	21.60	21.62	21.82	22.50
	36	LOW	0	Q16	21.04	21.08	21.10	22.00
		MID	20	Q16	21.32	21.13	21.06	22.00
		HIGH	39	Q16	21.26	21.10	21.27	22.00
	75	LOW	0	Q16	21.17	21.22	21.04	22.00
15	1	LOW	0	64QAM	21.13	21.25	21.19	22.00
		MID	37	64QAM	21.71	21.49	21.60	22.00
		HIGH	74	64QAM	21.10	20.93	21.23	22.00
	36	LOW	0	64QAM	20.20	20.24	20.14	21.00
		MID	20	64QAM	20.21	20.25	20.16	21.00
		HIGH	39	64QAM	20.27	20.16	20.09	21.00
	75	LOW	0	64QAM	20.24	20.24	20.07	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	0	QPSK	21.66	21.62	21.61	22.50
		MID	49	QPSK	22.01	21.93	**22.05**	22.50
		HIGH	99	QPSK	21.60	21.53	21.77	22.50
	50	LOW	0	QPSK	21.69	21.67	21.59	22.50
		MID	24	QPSK	21.75	21.66	21.80	22.50
		HIGH	50	QPSK	21.69	21.60	21.69	22.50
	100	LOW	0	QPSK	21.69	21.63	21.63	22.50
20	1	LOW	0	Q16	21.75	21.61	21.68	22.50
		MID	49	Q16	22.10	21.91	**22.17**	22.50
		HIGH	99	Q16	21.72	21.52	21.86	22.50
	50	LOW	0	Q16	21.15	21.17	21.10	22.00
		MID	24	Q16	21.19	21.15	21.18	22.00
		HIGH	50	Q16	21.18	21.08	21.19	22.00
	100	LOW	0	Q16	21.17	21.10	21.11	22.00
20	1	LOW	0	64QAM	21.11	21.04	21.03	22.00
		MID	49	64QAM	21.51	21.30	**21.71**	22.00
		HIGH	99	64QAM	21.31	20.93	21.45	22.00
	50	LOW	0	64QAM	20.15	20.26	20.08	21.00
		MID	24	64QAM	20.26	20.04	20.04	21.00
		HIGH	50	64QAM	20.07	19.96	20.33	21.00
	100	LOW	0	64QAM	20.08	19.97	20.03	21.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	0	QPSK	20.49	20.40	20.42	21.50
		MID	12	QPSK	20.59	20.55	20.76	21.50
		HIGH	24	QPSK	20.36	20.23	20.42	21.50
	12	LOW	0	QPSK	20.31	20.43	20.36	21.50
		MID	7	QPSK	20.31	20.39	20.34	21.50
		HIGH	13	QPSK	20.56	20.46	20.57	21.50
	25	LOW	0	QPSK	20.52	20.39	20.37	21.50
5	1	LOW	0	Q16	20.68	20.59	20.60	21.50
		MID	12	Q16	21.05	20.83	21.09	21.50
		HIGH	24	Q16	20.69	20.37	20.91	21.50
	12	LOW	0	Q16	20.50	20.50	20.27	21.50
		MID	7	Q16	20.56	20.43	20.38	21.50
		HIGH	13	Q16	20.40	20.21	20.60	21.50
	25	LOW	0	Q16	20.46	20.25	20.50	21.50
5	1	LOW	0	64QAM	20.64	20.57	20.73	21.50
		MID	12	64QAM	20.89	20.96	20.99	21.50
		HIGH	24	64QAM	20.65	20.44	20.72	21.50
	12	LOW	0	64QAM	19.82	19.92	20.01	21.00
		MID	7	64QAM	19.83	19.99	19.86	21.00
		HIGH	13	64QAM	19.88	19.92	19.98	21.00
	25	LOW	0	64QAM	19.87	19.79	19.80	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	0	QPSK	20.47	20.27	20.47	21.50
		MID	25	QPSK	20.82	20.57	20.70	21.50
		HIGH	49	QPSK	20.46	20.10	20.50	21.50
	25	LOW	0	QPSK	20.45	20.41	20.29	21.50
		MID	12	QPSK	20.53	20.47	20.40	21.50
		HIGH	25	QPSK	20.29	20.29	20.40	21.50
	50	LOW	0	QPSK	20.54	20.34	20.28	21.50
10	1	LOW	0	Q16	20.65	20.67	20.51	21.50
		MID	25	Q16	20.96	20.81	21.08	21.50
		HIGH	49	Q16	20.66	20.47	20.74	21.50
	25	LOW	0	Q16	20.34	20.54	20.39	21.50
		MID	12	Q16	20.49	20.53	20.48	21.50
		HIGH	25	Q16	20.31	20.40	20.46	21.50
	50	LOW	0	Q16	20.29	20.25	20.44	21.50
10	1	LOW	0	64QAM	20.81	20.53	20.71	21.50
		MID	25	64QAM	21.07	20.84	21.13	21.50
		HIGH	49	64QAM	20.52	20.45	20.86	21.50
	25	LOW	0	64QAM	20.04	19.88	19.90	21.00
		MID	12	64QAM	20.11	19.84	19.97	21.00
		HIGH	25	64QAM	19.98	19.82	20.04	21.00
	50	LOW	0	64QAM	19.92	19.96	19.85	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	0	QPSK	20.45	20.36	20.29	21.50
		MID	37	QPSK	20.67	20.66	20.89	21.50
		HIGH	74	QPSK	20.29	20.25	20.63	21.50
	36	LOW	0	QPSK	20.38	20.36	20.40	21.50
		MID	20	QPSK	20.58	20.42	20.53	21.50
		HIGH	39	QPSK	20.54	20.39	20.50	21.50
	75	LOW	0	QPSK	20.44	20.29	20.23	21.50
15	1	LOW	0	Q16	20.57	20.57	20.56	21.50
		MID	37	Q16	20.89	21.00	21.02	21.50
		HIGH	74	Q16	20.55	20.56	20.93	21.50
	36	LOW	0	Q16	20.34	20.32	20.48	21.50
		MID	20	Q16	20.42	20.42	20.45	21.50
		HIGH	39	Q16	20.41	20.39	20.54	21.50
	75	LOW	0	Q16	20.33	20.48	20.28	21.50
15	1	LOW	0	64QAM	20.69	20.49	20.54	21.50
		MID	37	64QAM	20.93	20.75	21.17	21.50
		HIGH	74	64QAM	20.57	20.35	20.85	21.50
	36	LOW	0	64QAM	19.97	19.83	19.94	21.00
		MID	20	64QAM	20.06	19.78	20.03	21.00
		HIGH	39	64QAM	20.02	19.96	19.87	21.00
	75	LOW	0	64QAM	19.88	19.88	19.86	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	0	QPSK	20.38	20.34	20.33	21.50
		MID	49	QPSK	20.72	20.66	**20.79**	21.50
		HIGH	99	QPSK	20.33	20.25	20.49	21.50
	50	LOW	0	QPSK	20.45	20.44	20.34	21.50
		MID	24	QPSK	20.46	20.40	20.48	21.50
		HIGH	50	QPSK	20.44	20.35	20.42	21.50
	100	LOW	0	QPSK	20.42	20.36	20.37	21.50
20	1	LOW	0	Q16	20.67	20.54	20.64	21.50
		MID	49	Q16	21.03	20.88	**21.08**	21.50
		HIGH	99	Q16	20.65	20.48	20.80	21.50
	50	LOW	0	Q16	20.44	20.46	20.39	21.50
		MID	24	Q16	20.48	20.43	20.48	21.50
		HIGH	50	Q16	20.42	20.35	20.47	21.50
	100	LOW	0	Q16	20.40	20.38	20.36	21.50
20	1	LOW	0	64QAM	20.82	20.67	20.69	21.50
		MID	49	64QAM	21.01	21.01	**21.06**	21.50
		HIGH	99	64QAM	20.59	20.35	20.85	21.50
	50	LOW	0	64QAM	19.83	20.02	19.93	21.00
		MID	24	64QAM	19.91	20.02	19.85	21.00
		HIGH	50	64QAM	20.02	19.82	20.11	21.00
	100	LOW	0	64QAM	19.95	19.80	19.76	21.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	0	QPSK	20.49	20.40	20.42	21.50
		MID	12	QPSK	20.59	20.55	20.76	21.50
		HIGH	24	QPSK	20.36	20.23	20.42	21.50
	12	LOW	0	QPSK	20.31	20.43	20.36	21.50
		MID	7	QPSK	20.31	20.39	20.34	21.50
		HIGH	13	QPSK	20.56	20.46	20.57	21.50
	25	LOW	0	QPSK	20.52	20.39	20.37	21.50
5	1	LOW	0	Q16	20.68	20.59	20.60	21.50
		MID	12	Q16	21.05	20.83	21.09	21.50
		HIGH	24	Q16	20.69	20.37	20.91	21.50
	12	LOW	0	Q16	20.50	20.50	20.27	21.50
		MID	7	Q16	20.56	20.43	20.38	21.50
		HIGH	13	Q16	20.40	20.21	20.60	21.50
	25	LOW	0	Q16	20.46	20.25	20.50	21.50
5	1	LOW	0	64QAM	20.64	20.57	20.73	21.50
		MID	12	64QAM	20.89	20.96	20.99	21.50
		HIGH	24	64QAM	20.65	20.44	20.72	21.50
	12	LOW	0	64QAM	19.82	19.92	20.01	21.00
		MID	7	64QAM	19.83	19.99	19.86	21.00
		HIGH	13	64QAM	19.88	19.92	19.98	21.00
	25	LOW	0	64QAM	19.87	19.79	19.80	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	0	QPSK	20.47	20.27	20.47	21.50
		MID	25	QPSK	20.82	20.57	20.70	21.50
		HIGH	49	QPSK	20.46	20.10	20.50	21.50
	25	LOW	0	QPSK	20.45	20.41	20.29	21.50
		MID	12	QPSK	20.53	20.47	20.40	21.50
		HIGH	25	QPSK	20.29	20.29	20.40	21.50
	50	LOW	0	QPSK	20.54	20.34	20.28	21.50
10	1	LOW	0	Q16	20.65	20.67	20.51	21.50
		MID	25	Q16	20.96	20.81	21.08	21.50
		HIGH	49	Q16	20.66	20.47	20.74	21.50
	25	LOW	0	Q16	20.34	20.54	20.39	21.50
		MID	12	Q16	20.49	20.53	20.48	21.50
		HIGH	25	Q16	20.31	20.40	20.46	21.50
	50	LOW	0	Q16	20.29	20.25	20.44	21.50
10	1	LOW	0	64QAM	20.81	20.53	20.71	21.50
		MID	25	64QAM	21.07	20.84	21.13	21.50
		HIGH	49	64QAM	20.52	20.45	20.86	21.50
	25	LOW	0	64QAM	20.04	19.88	19.90	21.00
		MID	12	64QAM	20.11	19.84	19.97	21.00
		HIGH	25	64QAM	19.98	19.82	20.04	21.00
	50	LOW	0	64QAM	19.92	19.96	19.85	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	0	QPSK	20.45	20.36	20.29	21.50
		MID	37	QPSK	20.67	20.66	20.89	21.50
		HIGH	74	QPSK	20.29	20.25	20.63	21.50
	36	LOW	0	QPSK	20.38	20.36	20.40	21.50
		MID	20	QPSK	20.58	20.42	20.53	21.50
		HIGH	39	QPSK	20.54	20.39	20.50	21.50
	75	LOW	0	QPSK	20.44	20.29	20.23	21.50
15	1	LOW	0	Q16	20.57	20.57	20.56	21.50
		MID	37	Q16	20.89	21.00	21.02	21.50
		HIGH	74	Q16	20.55	20.56	20.93	21.50
	36	LOW	0	Q16	20.34	20.32	20.48	21.50
		MID	20	Q16	20.42	20.42	20.45	21.50
		HIGH	39	Q16	20.41	20.39	20.54	21.50
	75	LOW	0	Q16	20.33	20.48	20.28	21.50
15	1	LOW	0	64QAM	20.69	20.49	20.54	21.50
		MID	37	64QAM	20.93	20.75	21.17	21.50
		HIGH	74	64QAM	20.57	20.35	20.85	21.50
	36	LOW	0	64QAM	19.97	19.83	19.94	21.00
		MID	20	64QAM	20.06	19.78	20.03	21.00
		HIGH	39	64QAM	20.02	19.96	19.87	21.00
	75	LOW	0	64QAM	19.88	19.88	19.86	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	0	QPSK	20.38	20.34	20.33	21.50
		MID	49	QPSK	20.72	20.66	**20.79**	21.50
		HIGH	99	QPSK	20.33	20.25	20.49	21.50
	50	LOW	0	QPSK	20.45	20.44	20.34	21.50
		MID	24	QPSK	20.46	20.40	20.48	21.50
		HIGH	50	QPSK	20.44	20.35	20.42	21.50
	100	LOW	0	QPSK	20.42	20.36	20.37	21.50
20	1	LOW	0	Q16	20.67	20.54	20.64	21.50
		MID	49	Q16	21.03	20.88	**21.08**	21.50
		HIGH	99	Q16	20.65	20.48	20.80	21.50
	50	LOW	0	Q16	20.44	20.46	20.39	21.50
		MID	24	Q16	20.48	20.43	20.48	21.50
		HIGH	50	Q16	20.42	20.35	20.47	21.50
	100	LOW	0	Q16	20.40	20.38	20.36	21.50
20	1	LOW	0	64QAM	20.82	20.67	20.69	21.50
		MID	49	64QAM	21.01	21.01	**21.06**	21.50
		HIGH	99	64QAM	20.59	20.35	20.85	21.50
	50	LOW	0	64QAM	19.83	20.02	19.93	21.00
		MID	24	64QAM	19.91	20.02	19.85	21.00
		HIGH	50	64QAM	20.02	19.82	20.11	21.00
	100	LOW	0	64QAM	19.95	19.80	19.76	21.00

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Bandwidth (MHz)	RB Size	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	QPSK	23.04	22.99	22.92	24.00
		MID	QPSK	**23.43**	23.24	23.42	24.00
		HIGH	QPSK	22.82	22.65	23.08	24.00
	12	LOW	QPSK	22.18	22.21	22.03	23.00
		MID	QPSK	22.07	21.83	21.96	23.00
		HIGH	QPSK	22.18	22.11	22.08	23.00
	25	LOW	QPSK	22.13	21.87	21.96	23.00
5	1	LOW	Q16	22.26	21.91	22.21	23.00
		MID	Q16	22.41	22.33	22.32	23.00
		HIGH	Q16	22.15	21.70	22.20	23.00
	12	LOW	Q16	21.13	21.03	21.10	22.00
		MID	Q16	21.08	21.18	20.90	22.00
		HIGH	Q16	21.07	20.94	20.96	22.00
	25	LOW	Q16	21.06	21.05	20.95	22.00
5	1	LOW	64QAM	21.03	21.11	21.20	22.00
		MID	64QAM	21.62	21.26	21.52	22.00
		HIGH	64QAM	20.93	20.79	21.16	22.00
	12	LOW	64QAM	20.20	19.97	20.02	21.00
		MID	64QAM	20.16	19.95	19.86	21.00
		HIGH	64QAM	19.98	19.89	20.01	21.00
	25	LOW	64QAM	20.01	19.84	20.12	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	QPSK	23.16	23.01	23.02	24.00
		MID	QPSK	**23.33**	23.22	23.31	24.00
		HIGH	QPSK	23.04	22.96	23.11	24.00
	25	LOW	QPSK	22.12	22.02	22.04	23.00
		MID	QPSK	21.96	21.95	21.95	23.00
		HIGH	QPSK	21.90	22.03	22.08	23.00
	50	LOW	QPSK	22.04	21.84	22.05	23.00
10	1	LOW	Q16	22.24	22.20	22.22	23.00
		MID	Q16	22.28	22.23	22.57	23.00
		HIGH	Q16	22.20	21.86	22.35	23.00
	25	LOW	Q16	20.80	21.06	21.02	22.00
		MID	Q16	20.91	21.07	21.11	22.00
		HIGH	Q16	20.85	21.17	21.08	22.00
	50	LOW	Q16	20.90	21.05	21.09	22.00
10	1	LOW	64QAM	21.03	21.22	21.20	22.00
		MID	64QAM	21.45	21.34	21.32	22.00
		HIGH	64QAM	20.95	21.01	21.07	22.00
	25	LOW	64QAM	20.03	20.21	19.90	21.00
		MID	64QAM	20.19	20.22	20.15	21.00
		HIGH	64QAM	20.03	19.84	19.99	21.00
	50	LOW	64QAM	20.11	20.01	19.99	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	QPSK	22.85	23.15	22.98	24.00
		MID	QPSK	23.37	23.31	**23.40**	24.00
		HIGH	QPSK	22.88	22.89	23.04	24.00
	36	LOW	QPSK	22.04	22.21	21.95	23.00
		MID	QPSK	22.02	22.02	22.06	23.00
		HIGH	QPSK	21.99	21.97	22.04	23.00
	75	LOW	QPSK	22.13	21.95	21.93	23.00
15	1	LOW	Q16	22.28	22.09	22.16	23.00
		MID	Q16	22.36	22.49	22.48	23.00
		HIGH	Q16	22.05	21.82	22.07	23.00
	36	LOW	Q16	20.99	21.06	20.92	22.00
		MID	Q16	21.17	21.03	20.98	22.00
		HIGH	Q16	21.09	21.05	21.01	22.00
	75	LOW	Q16	21.08	21.15	21.04	22.00
15	1	LOW	64QAM	21.28	21.09	21.08	22.00
		MID	64QAM	21.40	21.35	21.39	22.00
		HIGH	64QAM	20.96	20.96	21.27	22.00
	36	LOW	64QAM	20.05	20.27	19.72	21.00
		MID	64QAM	20.01	19.86	19.92	21.00
		HIGH	64QAM	20.13	19.95	19.98	21.00
	75	LOW	64QAM	20.08	19.91	19.93	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	QPSK	23.07	22.95	22.92	24.00
		MID	QPSK	23.29	23.23	**23.31**	24.00
		HIGH	QPSK	22.94	22.82	23.01	24.00
	50	LOW	QPSK	21.99	22.01	21.91	23.00
		MID	QPSK	22.09	22.07	22.13	23.00
		HIGH	QPSK	22.03	21.96	22.08	23.00
	100	LOW	QPSK	22.14	21.94	22.07	23.00
20	1	LOW	Q16	22.09	22.08	22.14	23.00
		MID	Q16	**22.54**	22.26	22.46	23.00
		HIGH	Q16	22.05	21.91	22.16	23.00
	50	LOW	Q16	21.09	21.01	20.89	22.00
		MID	Q16	21.07	21.11	20.99	22.00
		HIGH	Q16	20.98	20.98	20.95	22.00
	100	LOW	Q16	21.12	21.08	20.99	22.00
20	1	LOW	64QAM	21.04	21.04	21.02	22.00
		MID	64QAM	**21.65**	21.32	21.56	22.00
		HIGH	64QAM	21.21	20.70	21.14	22.00
	50	LOW	64QAM	20.18	20.04	19.93	21.00
		MID	64QAM	19.93	19.96	20.08	21.00
		HIGH	64QAM	20.06	19.83	19.88	21.00
	100	LOW	64QAM	20.19	20.01	20.04	21.00

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Bandwidth(MHz)	RB Size	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	QPSK	22.82	22.75	22.87	24.20
		MID	QPSK	23.15	23.24	**23.43**	24.20
		HIGH	QPSK	22.87	22.70	23.03	24.20
	12	LOW	QPSK	22.09	21.98	22.01	23.20
		MID	QPSK	21.94	22.07	21.94	23.20
		HIGH	QPSK	21.85	21.86	22.05	23.20
	25	LOW	QPSK	21.82	21.89	22.10	23.20
5	1	LOW	Q16	22.33	22.03	22.30	23.20
		MID	Q16	22.69	22.53	22.60	23.20
		HIGH	Q16	22.18	22.20	22.39	23.20
	12	LOW	Q16	20.98	20.84	21.02	22.20
		MID	Q16	20.79	20.90	21.12	22.20
		HIGH	Q16	20.82	20.94	20.96	22.20
	25	LOW	Q16	20.79	20.76	21.04	22.20
5	1	LOW	64QAM	21.26	21.05	21.36	22.20
		MID	64QAM	21.42	21.49	21.63	22.20
		HIGH	64QAM	21.18	21.17	21.45	22.20
	12	LOW	64QAM	19.95	19.82	20.02	21.20
		MID	64QAM	20.06	20.02	19.94	21.20
		HIGH	64QAM	19.79	20.02	20.07	21.20
	25	LOW	64QAM	19.95	20.01	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	QPSK	22.82	22.84	22.79	24.20
		MID	QPSK	23.18	23.06	**23.22**	24.20
		HIGH	QPSK	22.81	22.90	23.00	24.20
	25	LOW	QPSK	21.91	21.85	21.94	23.20
		MID	QPSK	22.07	21.88	21.92	23.20
		HIGH	QPSK	21.90	21.88	21.91	23.20
	50	LOW	QPSK	21.83	21.88	22.15	23.20
10	1	LOW	Q16	22.34	22.05	22.24	23.20
		MID	Q16	22.63	22.42	22.62	23.20
		HIGH	Q16	22.22	22.21	22.43	23.20
	25	LOW	Q16	21.04	20.89	20.95	22.20
		MID	Q16	20.84	20.90	21.14	22.20
		HIGH	Q16	20.96	20.98	20.99	22.20
	50	LOW	Q16	20.97	20.88	20.98	22.20
10	1	LOW	64QAM	21.13	21.11	21.13	22.20
		MID	64QAM	21.54	21.31	21.59	22.20
		HIGH	64QAM	21.15	21.19	21.35	22.20
	25	LOW	64QAM	19.79	19.99	20.08	21.20
		MID	64QAM	19.89	19.97	19.93	21.20
		HIGH	64QAM	19.88	19.87	19.99	21.20
	50	LOW	64QAM	19.80	19.96	20.03	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	QPSK	22.91	22.86	22.80	24.20
		MID	QPSK	23.16	23.02	**23.18**	24.20
		HIGH	QPSK	22.75	22.88	23.17	24.20
	36	LOW	QPSK	21.81	21.92	22.05	23.20
		MID	QPSK	21.83	22.11	22.14	23.20
		HIGH	QPSK	21.98	21.96	22.12	23.20
	75	LOW	QPSK	21.99	21.85	22.06	23.20
15	1	LOW	Q16	22.24	22.25	22.13	23.20
		MID	Q16	22.58	22.49	22.55	23.20
		HIGH	Q16	22.13	22.04	22.42	23.20
	36	LOW	Q16	20.91	20.93	20.86	22.20
		MID	Q16	20.78	21.10	21.04	22.20
		HIGH	Q16	21.07	20.87	21.06	22.20
	75	LOW	Q16	20.83	20.81	20.95	22.20
15	1	LOW	64QAM	21.08	21.08	21.25	22.20
		MID	64QAM	21.68	21.40	21.66	22.20
		HIGH	64QAM	21.21	21.09	21.52	22.20
	36	LOW	64QAM	19.76	19.92	19.99	21.20
		MID	64QAM	19.83	20.00	20.13	21.20
		HIGH	64QAM	20.00	19.99	20.13	21.20
	75	LOW	64QAM	20.00	20.05	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	QPSK	22.87	22.88	22.89	24.20
		MID	QPSK	23.23	23.17	**23.32**	24.20
		HIGH	QPSK	22.87	22.82	23.06	24.20
	50	LOW	QPSK	21.94	21.97	21.94	23.20
		MID	QPSK	21.97	21.96	22.04	23.20
		HIGH	QPSK	21.95	21.92	22.04	23.20
	100	LOW	QPSK	21.93	21.94	22.01	23.20
20	1	LOW	Q16	22.19	22.10	22.25	23.20
		MID	Q16	22.54	22.41	**22.70**	23.20
		HIGH	Q16	22.21	22.08	22.39	23.20
	50	LOW	Q16	20.90	20.95	20.93	22.20
		MID	Q16	20.92	20.96	21.05	22.20
		HIGH	Q16	20.92	20.88	21.05	22.20
	100	LOW	Q16	20.90	20.91	20.99	22.20
20	1	LOW	64QAM	21.27	21.12	21.30	22.20
		MID	64QAM	21.50	21.27	**21.69**	22.20
		HIGH	64QAM	21.17	21.23	21.45	22.20
	50	LOW	64QAM	19.97	19.85	20.03	21.20
		MID	64QAM	20.02	20.09	19.99	21.20
		HIGH	64QAM	19.94	19.90	20.11	21.20
	100	LOW	64QAM	20.05	20.04	20.11	21.20

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Bandwidth(MHz)	RB Size	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	QPSK	22.82	22.75	22.87	24.20
		MID	QPSK	23.15	23.24	**23.43**	24.20
		HIGH	QPSK	22.87	22.70	23.03	24.20
	12	LOW	QPSK	22.09	21.98	22.01	23.20
		MID	QPSK	21.94	22.07	21.94	23.20
		HIGH	QPSK	21.85	21.86	22.05	23.20
	25	LOW	QPSK	21.82	21.89	22.10	23.20
5	1	LOW	Q16	22.33	22.03	22.30	23.20
		MID	Q16	22.69	22.53	22.60	23.20
		HIGH	Q16	22.18	22.20	22.39	23.20
	12	LOW	Q16	20.98	20.84	21.02	22.20
		MID	Q16	20.79	20.90	21.12	22.20
		HIGH	Q16	20.82	20.94	20.96	22.20
	25	LOW	Q16	20.79	20.76	21.04	22.20
5	1	LOW	64QAM	21.26	21.05	21.36	22.20
		MID	64QAM	21.42	21.49	21.63	22.20
		HIGH	64QAM	21.18	21.17	21.45	22.20
	12	LOW	64QAM	19.95	19.82	20.02	21.20
		MID	64QAM	20.06	20.02	19.94	21.20
		HIGH	64QAM	19.79	20.02	20.07	21.20
	25	LOW	64QAM	19.95	20.01	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	QPSK	22.82	22.84	22.79	24.20
		MID	QPSK	23.18	23.06	**23.22**	24.20
		HIGH	QPSK	22.81	22.90	23.00	24.20
	25	LOW	QPSK	21.91	21.85	21.94	23.20
		MID	QPSK	22.07	21.88	21.92	23.20
		HIGH	QPSK	21.90	21.88	21.91	23.20
	50	LOW	QPSK	21.83	21.88	22.15	23.20
10	1	LOW	Q16	22.34	22.05	22.24	23.20
		MID	Q16	22.63	22.42	22.62	23.20
		HIGH	Q16	22.22	22.21	22.43	23.20
	25	LOW	Q16	21.04	20.89	20.95	22.20
		MID	Q16	20.84	20.90	21.14	22.20
		HIGH	Q16	20.96	20.98	20.99	22.20
	50	LOW	Q16	20.97	20.88	20.98	22.20
10	1	LOW	64QAM	21.13	21.11	21.13	22.20
		MID	64QAM	21.54	21.31	21.59	22.20
		HIGH	64QAM	21.15	21.19	21.35	22.20
	25	LOW	64QAM	19.79	19.99	20.08	21.20
		MID	64QAM	19.89	19.97	19.93	21.20
		HIGH	64QAM	19.88	19.87	19.99	21.20
	50	LOW	64QAM	19.80	19.96	20.03	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	QPSK	22.91	22.86	22.80	24.20
		MID	QPSK	23.16	23.02	**23.18**	24.20
		HIGH	QPSK	22.75	22.88	23.17	24.20
	36	LOW	QPSK	21.81	21.92	22.05	23.20
		MID	QPSK	21.83	22.11	22.14	23.20
		HIGH	QPSK	21.98	21.96	22.12	23.20
	75	LOW	QPSK	21.99	21.85	22.06	23.20
15	1	LOW	Q16	22.24	22.25	22.13	23.20
		MID	Q16	22.58	22.49	22.55	23.20
		HIGH	Q16	22.13	22.04	22.42	23.20
	36	LOW	Q16	20.91	20.93	20.86	22.20
		MID	Q16	20.78	21.10	21.04	22.20
		HIGH	Q16	21.07	20.87	21.06	22.20
	75	LOW	Q16	20.83	20.81	20.95	22.20
15	1	LOW	64QAM	21.08	21.08	21.25	22.20
		MID	64QAM	21.68	21.40	21.66	22.20
		HIGH	64QAM	21.21	21.09	21.52	22.20
	36	LOW	64QAM	19.76	19.92	19.99	21.20
		MID	64QAM	19.83	20.00	20.13	21.20
		HIGH	64QAM	20.00	19.99	20.13	21.20
	75	LOW	64QAM	20.00	20.05	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	QPSK	22.87	22.88	22.89	24.20
		MID	QPSK	23.23	23.17	**23.32**	24.20
		HIGH	QPSK	22.87	22.82	23.06	24.20
	50	LOW	QPSK	21.94	21.97	21.94	23.20
		MID	QPSK	21.97	21.96	22.04	23.20
		HIGH	QPSK	21.95	21.92	22.04	23.20
	100	LOW	QPSK	21.93	21.94	22.01	23.20
20	1	LOW	Q16	22.19	22.10	22.25	23.20
		MID	Q16	22.54	22.41	**22.70**	23.20
		HIGH	Q16	22.21	22.08	22.39	23.20
	50	LOW	Q16	20.90	20.95	20.93	22.20
		MID	Q16	20.92	20.96	21.05	22.20
		HIGH	Q16	20.92	20.88	21.05	22.20
	100	LOW	Q16	20.90	20.91	20.99	22.20
20	1	LOW	64QAM	21.27	21.12	21.30	22.20
		MID	64QAM	21.50	21.27	**21.69**	22.20
		HIGH	64QAM	21.17	21.23	21.45	22.20
	50	LOW	64QAM	19.97	19.85	20.03	21.20
		MID	64QAM	20.02	20.09	19.99	21.20
		HIGH	64QAM	19.94	19.90	20.11	21.20
	100	LOW	64QAM	20.05	20.04	20.11	21.20

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Bandwidth(MHz)	RB Size	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	QPSK	22.82	22.75	22.87	24.20
		MID	QPSK	23.15	23.24	**23.43**	24.20
		HIGH	QPSK	22.87	22.70	23.03	24.20
	12	LOW	QPSK	22.09	21.98	22.01	23.20
		MID	QPSK	21.94	22.07	21.94	23.20
		HIGH	QPSK	21.85	21.86	22.05	23.20
	25	LOW	QPSK	21.82	21.89	22.10	23.20
5	1	LOW	Q16	22.33	22.03	22.30	23.20
		MID	Q16	22.69	22.53	22.60	23.20
		HIGH	Q16	22.18	22.20	22.39	23.20
	12	LOW	Q16	20.98	20.84	21.02	22.20
		MID	Q16	20.79	20.90	21.12	22.20
		HIGH	Q16	20.82	20.94	20.96	22.20
	25	LOW	Q16	20.79	20.76	21.04	22.20
5	1	LOW	64QAM	21.26	21.05	21.36	22.20
		MID	64QAM	21.42	21.49	21.63	22.20
		HIGH	64QAM	21.18	21.17	21.45	22.20
	12	LOW	64QAM	19.95	19.82	20.02	21.20
		MID	64QAM	20.06	20.02	19.94	21.20
		HIGH	64QAM	19.79	20.02	20.07	21.20
	25	LOW	64QAM	19.95	20.01	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	QPSK	22.82	22.84	22.79	24.20
		MID	QPSK	23.18	23.06	**23.22**	24.20
		HIGH	QPSK	22.81	22.90	23.00	24.20
	25	LOW	QPSK	21.91	21.85	21.94	23.20
		MID	QPSK	22.07	21.88	21.92	23.20
		HIGH	QPSK	21.90	21.88	21.91	23.20
	50	LOW	QPSK	21.83	21.88	22.15	23.20
10	1	LOW	Q16	22.34	22.05	22.24	23.20
		MID	Q16	22.63	22.42	22.62	23.20
		HIGH	Q16	22.22	22.21	22.43	23.20
	25	LOW	Q16	21.04	20.89	20.95	22.20
		MID	Q16	20.84	20.90	21.14	22.20
		HIGH	Q16	20.96	20.98	20.99	22.20
	50	LOW	Q16	20.97	20.88	20.98	22.20
10	1	LOW	64QAM	21.13	21.11	21.13	22.20
		MID	64QAM	21.54	21.31	21.59	22.20
		HIGH	64QAM	21.15	21.19	21.35	22.20
	25	LOW	64QAM	19.79	19.99	20.08	21.20
		MID	64QAM	19.89	19.97	19.93	21.20
		HIGH	64QAM	19.88	19.87	19.99	21.20
	50	LOW	64QAM	19.80	19.96	20.03	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	QPSK	22.91	22.86	22.80	24.20
		MID	QPSK	23.16	23.02	**23.18**	24.20
		HIGH	QPSK	22.75	22.88	23.17	24.20
	36	LOW	QPSK	21.81	21.92	22.05	23.20
		MID	QPSK	21.83	22.11	22.14	23.20
		HIGH	QPSK	21.98	21.96	22.12	23.20
	75	LOW	QPSK	21.99	21.85	22.06	23.20
15	1	LOW	Q16	22.24	22.25	22.13	23.20
		MID	Q16	22.58	22.49	22.55	23.20
		HIGH	Q16	22.13	22.04	22.42	23.20
	36	LOW	Q16	20.91	20.93	20.86	22.20
		MID	Q16	20.78	21.10	21.04	22.20
		HIGH	Q16	21.07	20.87	21.06	22.20
	75	LOW	Q16	20.83	20.81	20.95	22.20
15	1	LOW	64QAM	21.08	21.08	21.25	22.20
		MID	64QAM	21.68	21.40	21.66	22.20
		HIGH	64QAM	21.21	21.09	21.52	22.20
	36	LOW	64QAM	19.76	19.92	19.99	21.20
		MID	64QAM	19.83	20.00	20.13	21.20
		HIGH	64QAM	20.00	19.99	20.13	21.20
	75	LOW	64QAM	20.00	20.05	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	QPSK	22.87	22.88	22.89	24.20
		MID	QPSK	23.23	23.17	**23.32**	24.20
		HIGH	QPSK	22.87	22.82	23.06	24.20
	50	LOW	QPSK	21.94	21.97	21.94	23.20
		MID	QPSK	21.97	21.96	22.04	23.20
		HIGH	QPSK	21.95	21.92	22.04	23.20
	100	LOW	QPSK	21.93	21.94	22.01	23.20
20	1	LOW	Q16	22.19	22.10	22.25	23.20
		MID	Q16	22.54	22.41	**22.70**	23.20
		HIGH	Q16	22.21	22.08	22.39	23.20
	50	LOW	Q16	20.90	20.95	20.93	22.20
		MID	Q16	20.92	20.96	21.05	22.20
		HIGH	Q16	20.92	20.88	21.05	22.20
	100	LOW	Q16	20.90	20.91	20.99	22.20
20	1	LOW	64QAM	21.27	21.12	21.30	22.20
		MID	64QAM	21.50	21.27	**21.69**	22.20
		HIGH	64QAM	21.17	21.23	21.45	22.20
	50	LOW	64QAM	19.97	19.85	20.03	21.20
		MID	64QAM	20.02	20.09	19.99	21.20
		HIGH	64QAM	19.94	19.90	20.11	21.20
	100	LOW	64QAM	20.05	20.04	20.11	21.20

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Bandwidth(MHz)	RB Size	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	QPSK	22.82	22.75	22.87	24.20
		MID	QPSK	23.15	23.24	**23.43**	24.20
		HIGH	QPSK	22.87	22.70	23.03	24.20
	12	LOW	QPSK	22.09	21.98	22.01	23.20
		MID	QPSK	21.94	22.07	21.94	23.20
		HIGH	QPSK	21.85	21.86	22.05	23.20
	25	LOW	QPSK	21.82	21.89	22.10	23.20
5	1	LOW	Q16	22.33	22.03	22.30	23.20
		MID	Q16	22.69	22.53	22.60	23.20
		HIGH	Q16	22.18	22.20	22.39	23.20
	12	LOW	Q16	20.98	20.84	21.02	22.20
		MID	Q16	20.79	20.90	21.12	22.20
		HIGH	Q16	20.82	20.94	20.96	22.20
	25	LOW	Q16	20.79	20.76	21.04	22.20
5	1	LOW	64QAM	21.26	21.05	21.36	22.20
		MID	64QAM	21.42	21.49	21.63	22.20
		HIGH	64QAM	21.18	21.17	21.45	22.20
	12	LOW	64QAM	19.95	19.82	20.02	21.20
		MID	64QAM	20.06	20.02	19.94	21.20
		HIGH	64QAM	19.79	20.02	20.07	21.20
	25	LOW	64QAM	19.95	20.01	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	QPSK	22.82	22.84	22.79	24.20
		MID	QPSK	23.18	23.06	**23.22**	24.20
		HIGH	QPSK	22.81	22.90	23.00	24.20
	25	LOW	QPSK	21.91	21.85	21.94	23.20
		MID	QPSK	22.07	21.88	21.92	23.20
		HIGH	QPSK	21.90	21.88	21.91	23.20
	50	LOW	QPSK	21.83	21.88	22.15	23.20
10	1	LOW	Q16	22.34	22.05	22.24	23.20
		MID	Q16	22.63	22.42	22.62	23.20
		HIGH	Q16	22.22	22.21	22.43	23.20
	25	LOW	Q16	21.04	20.89	20.95	22.20
		MID	Q16	20.84	20.90	21.14	22.20
		HIGH	Q16	20.96	20.98	20.99	22.20
	50	LOW	Q16	20.97	20.88	20.98	22.20
10	1	LOW	64QAM	21.13	21.11	21.13	22.20
		MID	64QAM	21.54	21.31	21.59	22.20
		HIGH	64QAM	21.15	21.19	21.35	22.20
	25	LOW	64QAM	19.79	19.99	20.08	21.20
		MID	64QAM	19.89	19.97	19.93	21.20
		HIGH	64QAM	19.88	19.87	19.99	21.20
	50	LOW	64QAM	19.80	19.96	20.03	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	QPSK	22.91	22.86	22.80	24.20
		MID	QPSK	23.16	23.02	**23.18**	24.20
		HIGH	QPSK	22.75	22.88	23.17	24.20
	36	LOW	QPSK	21.81	21.92	22.05	23.20
		MID	QPSK	21.83	22.11	22.14	23.20
		HIGH	QPSK	21.98	21.96	22.12	23.20
	75	LOW	QPSK	21.99	21.85	22.06	23.20
15	1	LOW	Q16	22.24	22.25	22.13	23.20
		MID	Q16	22.58	22.49	22.55	23.20
		HIGH	Q16	22.13	22.04	22.42	23.20
	36	LOW	Q16	20.91	20.93	20.86	22.20
		MID	Q16	20.78	21.10	21.04	22.20
		HIGH	Q16	21.07	20.87	21.06	22.20
	75	LOW	Q16	20.83	20.81	20.95	22.20
15	1	LOW	64QAM	21.08	21.08	21.25	22.20
		MID	64QAM	21.68	21.40	21.66	22.20
		HIGH	64QAM	21.21	21.09	21.52	22.20
	36	LOW	64QAM	19.76	19.92	19.99	21.20
		MID	64QAM	19.83	20.00	20.13	21.20
		HIGH	64QAM	20.00	19.99	20.13	21.20
	75	LOW	64QAM	20.00	20.05	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	QPSK	22.87	22.88	22.89	24.20
		MID	QPSK	23.23	23.17	**23.32**	24.20
		HIGH	QPSK	22.87	22.82	23.06	24.20
	50	LOW	QPSK	21.94	21.97	21.94	23.20
		MID	QPSK	21.97	21.96	22.04	23.20
		HIGH	QPSK	21.95	21.92	22.04	23.20
	100	LOW	QPSK	21.93	21.94	22.01	23.20
20	1	LOW	Q16	22.19	22.10	22.25	23.20
		MID	Q16	22.54	22.41	**22.70**	23.20
		HIGH	Q16	22.21	22.08	22.39	23.20
	50	LOW	Q16	20.90	20.95	20.93	22.20
		MID	Q16	20.92	20.96	21.05	22.20
		HIGH	Q16	20.92	20.88	21.05	22.20
	100	LOW	Q16	20.90	20.91	20.99	22.20
20	1	LOW	64QAM	21.27	21.12	21.30	22.20
		MID	64QAM	21.50	21.27	**21.69**	22.20
		HIGH	64QAM	21.17	21.23	21.45	22.20
	50	LOW	64QAM	19.97	19.85	20.03	21.20
		MID	64QAM	20.02	20.09	19.99	21.20
		HIGH	64QAM	19.94	19.90	20.11	21.20
	100	LOW	64QAM	20.05	20.04	20.11	21.20

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Bandwidth(MHz)	RB Size	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	QPSK	22.82	22.75	22.87	24.20
		MID	QPSK	23.15	23.24	**23.43**	24.20
		HIGH	QPSK	22.87	22.70	23.03	24.20
	12	LOW	QPSK	22.09	21.98	22.01	23.20
		MID	QPSK	21.94	22.07	21.94	23.20
		HIGH	QPSK	21.85	21.86	22.05	23.20
	25	LOW	QPSK	21.82	21.89	22.10	23.20
5	1	LOW	Q16	22.33	22.03	22.30	23.20
		MID	Q16	22.69	22.53	22.60	23.20
		HIGH	Q16	22.18	22.20	22.39	23.20
	12	LOW	Q16	20.98	20.84	21.02	22.20
		MID	Q16	20.79	20.90	21.12	22.20
		HIGH	Q16	20.82	20.94	20.96	22.20
	25	LOW	Q16	20.79	20.76	21.04	22.20
5	1	LOW	64QAM	21.26	21.05	21.36	22.20
		MID	64QAM	21.42	21.49	21.63	22.20
		HIGH	64QAM	21.18	21.17	21.45	22.20
	12	LOW	64QAM	19.95	19.82	20.02	21.20
		MID	64QAM	20.06	20.02	19.94	21.20
		HIGH	64QAM	19.79	20.02	20.07	21.20
	25	LOW	64QAM	19.95	20.01	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	QPSK	22.82	22.84	22.79	24.20
		MID	QPSK	23.18	23.06	**23.22**	24.20
		HIGH	QPSK	22.81	22.90	23.00	24.20
	25	LOW	QPSK	21.91	21.85	21.94	23.20
		MID	QPSK	22.07	21.88	21.92	23.20
		HIGH	QPSK	21.90	21.88	21.91	23.20
	50	LOW	QPSK	21.83	21.88	22.15	23.20
10	1	LOW	Q16	22.34	22.05	22.24	23.20
		MID	Q16	22.63	22.42	22.62	23.20
		HIGH	Q16	22.22	22.21	22.43	23.20
	25	LOW	Q16	21.04	20.89	20.95	22.20
		MID	Q16	20.84	20.90	21.14	22.20
		HIGH	Q16	20.96	20.98	20.99	22.20
	50	LOW	Q16	20.97	20.88	20.98	22.20
10	1	LOW	64QAM	21.13	21.11	21.13	22.20
		MID	64QAM	21.54	21.31	21.59	22.20
		HIGH	64QAM	21.15	21.19	21.35	22.20
	25	LOW	64QAM	19.79	19.99	20.08	21.20
		MID	64QAM	19.89	19.97	19.93	21.20
		HIGH	64QAM	19.88	19.87	19.99	21.20
	50	LOW	64QAM	19.80	19.96	20.03	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	QPSK	22.91	22.86	22.80	24.20
		MID	QPSK	23.16	23.02	**23.18**	24.20
		HIGH	QPSK	22.75	22.88	23.17	24.20
	36	LOW	QPSK	21.81	21.92	22.05	23.20
		MID	QPSK	21.83	22.11	22.14	23.20
		HIGH	QPSK	21.98	21.96	22.12	23.20
	75	LOW	QPSK	21.99	21.85	22.06	23.20
15	1	LOW	Q16	22.24	22.25	22.13	23.20
		MID	Q16	22.58	22.49	22.55	23.20
		HIGH	Q16	22.13	22.04	22.42	23.20
	36	LOW	Q16	20.91	20.93	20.86	22.20
		MID	Q16	20.78	21.10	21.04	22.20
		HIGH	Q16	21.07	20.87	21.06	22.20
	75	LOW	Q16	20.83	20.81	20.95	22.20
15	1	LOW	64QAM	21.08	21.08	21.25	22.20
		MID	64QAM	21.68	21.40	21.66	22.20
		HIGH	64QAM	21.21	21.09	21.52	22.20
	36	LOW	64QAM	19.76	19.92	19.99	21.20
		MID	64QAM	19.83	20.00	20.13	21.20
		HIGH	64QAM	20.00	19.99	20.13	21.20
	75	LOW	64QAM	20.00	20.05	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	QPSK	22.87	22.88	22.89	24.20
		MID	QPSK	23.23	23.17	**23.32**	24.20
		HIGH	QPSK	22.87	22.82	23.06	24.20
	50	LOW	QPSK	21.94	21.97	21.94	23.20
		MID	QPSK	21.97	21.96	22.04	23.20
		HIGH	QPSK	21.95	21.92	22.04	23.20
	100	LOW	QPSK	21.93	21.94	22.01	23.20
20	1	LOW	Q16	22.19	22.10	22.25	23.20
		MID	Q16	22.54	22.41	**22.70**	23.20
		HIGH	Q16	22.21	22.08	22.39	23.20
	50	LOW	Q16	20.90	20.95	20.93	22.20
		MID	Q16	20.92	20.96	21.05	22.20
		HIGH	Q16	20.92	20.88	21.05	22.20
	100	LOW	Q16	20.90	20.91	20.99	22.20
20	1	LOW	64QAM	21.27	21.12	21.30	22.20
		MID	64QAM	21.50	21.27	**21.69**	22.20
		HIGH	64QAM	21.17	21.23	21.45	22.20
	50	LOW	64QAM	19.97	19.85	20.03	21.20
		MID	64QAM	20.02	20.09	19.99	21.20
		HIGH	64QAM	19.94	19.90	20.11	21.20
	100	LOW	64QAM	20.05	20.04	20.11	21.20

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Bandwidth(MHz)	RB Size	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	QPSK	22.82	22.75	22.87	24.20
		MID	QPSK	23.15	23.24	**23.43**	24.20
		HIGH	QPSK	22.87	22.70	23.03	24.20
	12	LOW	QPSK	22.09	21.98	22.01	23.20
		MID	QPSK	21.94	22.07	21.94	23.20
		HIGH	QPSK	21.85	21.86	22.05	23.20
	25	LOW	QPSK	21.82	21.89	22.10	23.20
5	1	LOW	Q16	22.33	22.03	22.30	23.20
		MID	Q16	22.69	22.53	22.60	23.20
		HIGH	Q16	22.18	22.20	22.39	23.20
	12	LOW	Q16	20.98	20.84	21.02	22.20
		MID	Q16	20.79	20.90	21.12	22.20
		HIGH	Q16	20.82	20.94	20.96	22.20
	25	LOW	Q16	20.79	20.76	21.04	22.20
5	1	LOW	64QAM	21.26	21.05	21.36	22.20
		MID	64QAM	21.42	21.49	21.63	22.20
		HIGH	64QAM	21.18	21.17	21.45	22.20
	12	LOW	64QAM	19.95	19.82	20.02	21.20
		MID	64QAM	20.06	20.02	19.94	21.20
		HIGH	64QAM	19.79	20.02	20.07	21.20
	25	LOW	64QAM	19.95	20.01	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	QPSK	22.82	22.84	22.79	24.20
		MID	QPSK	23.18	23.06	**23.22**	24.20
		HIGH	QPSK	22.81	22.90	23.00	24.20
	25	LOW	QPSK	21.91	21.85	21.94	23.20
		MID	QPSK	22.07	21.88	21.92	23.20
		HIGH	QPSK	21.90	21.88	21.91	23.20
	50	LOW	QPSK	21.83	21.88	22.15	23.20
10	1	LOW	Q16	22.34	22.05	22.24	23.20
		MID	Q16	22.63	22.42	22.62	23.20
		HIGH	Q16	22.22	22.21	22.43	23.20
	25	LOW	Q16	21.04	20.89	20.95	22.20
		MID	Q16	20.84	20.90	21.14	22.20
		HIGH	Q16	20.96	20.98	20.99	22.20
	50	LOW	Q16	20.97	20.88	20.98	22.20
10	1	LOW	64QAM	21.13	21.11	21.13	22.20
		MID	64QAM	21.54	21.31	21.59	22.20
		HIGH	64QAM	21.15	21.19	21.35	22.20
	25	LOW	64QAM	19.79	19.99	20.08	21.20
		MID	64QAM	19.89	19.97	19.93	21.20
		HIGH	64QAM	19.88	19.87	19.99	21.20
	50	LOW	64QAM	19.80	19.96	20.03	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	QPSK	22.91	22.86	22.80	24.20
		MID	QPSK	23.16	23.02	**23.18**	24.20
		HIGH	QPSK	22.75	22.88	23.17	24.20
	36	LOW	QPSK	21.81	21.92	22.05	23.20
		MID	QPSK	21.83	22.11	22.14	23.20
		HIGH	QPSK	21.98	21.96	22.12	23.20
	75	LOW	QPSK	21.99	21.85	22.06	23.20
15	1	LOW	Q16	22.24	22.25	22.13	23.20
		MID	Q16	22.58	22.49	22.55	23.20
		HIGH	Q16	22.13	22.04	22.42	23.20
	36	LOW	Q16	20.91	20.93	20.86	22.20
		MID	Q16	20.78	21.10	21.04	22.20
		HIGH	Q16	21.07	20.87	21.06	22.20
	75	LOW	Q16	20.83	20.81	20.95	22.20
15	1	LOW	64QAM	21.08	21.08	21.25	22.20
		MID	64QAM	21.68	21.40	21.66	22.20
		HIGH	64QAM	21.21	21.09	21.52	22.20
	36	LOW	64QAM	19.76	19.92	19.99	21.20
		MID	64QAM	19.83	20.00	20.13	21.20
		HIGH	64QAM	20.00	19.99	20.13	21.20
	75	LOW	64QAM	20.00	20.05	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	QPSK	22.87	22.88	22.89	24.20
		MID	QPSK	23.23	23.17	**23.32**	24.20
		HIGH	QPSK	22.87	22.82	23.06	24.20
	50	LOW	QPSK	21.94	21.97	21.94	23.20
		MID	QPSK	21.97	21.96	22.04	23.20
		HIGH	QPSK	21.95	21.92	22.04	23.20
	100	LOW	QPSK	21.93	21.94	22.01	23.20
20	1	LOW	Q16	22.19	22.10	22.25	23.20
		MID	Q16	22.54	22.41	**22.70**	23.20
		HIGH	Q16	22.21	22.08	22.39	23.20
	50	LOW	Q16	20.90	20.95	20.93	22.20
		MID	Q16	20.92	20.96	21.05	22.20
		HIGH	Q16	20.92	20.88	21.05	22.20
	100	LOW	Q16	20.90	20.91	20.99	22.20
20	1	LOW	64QAM	21.27	21.12	21.30	22.20
		MID	64QAM	21.50	21.27	**21.69**	22.20
		HIGH	64QAM	21.17	21.23	21.45	22.20
	50	LOW	64QAM	19.97	19.85	20.03	21.20
		MID	64QAM	20.02	20.09	19.99	21.20
		HIGH	64QAM	19.94	19.90	20.11	21.20
	100	LOW	64QAM	20.05	20.04	20.11	21.20

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Bandwidth(MHz)	RB Size	RB offest	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	QPSK	22.82	22.75	22.87	24.20
		MID	QPSK	23.15	23.24	**23.43**	24.20
		HIGH	QPSK	22.87	22.70	23.03	24.20
	12	LOW	QPSK	22.09	21.98	22.01	23.20
		MID	QPSK	21.94	22.07	21.94	23.20
		HIGH	QPSK	21.85	21.86	22.05	23.20
	25	LOW	QPSK	21.82	21.89	22.10	23.20
5	1	LOW	Q16	22.33	22.03	22.30	23.20
		MID	Q16	22.69	22.53	22.60	23.20
		HIGH	Q16	22.18	22.20	22.39	23.20
	12	LOW	Q16	20.98	20.84	21.02	22.20
		MID	Q16	20.79	20.90	21.12	22.20
		HIGH	Q16	20.82	20.94	20.96	22.20
	25	LOW	Q16	20.79	20.76	21.04	22.20
5	1	LOW	64QAM	21.26	21.05	21.36	22.20
		MID	64QAM	21.42	21.49	21.63	22.20
		HIGH	64QAM	21.18	21.17	21.45	22.20
	12	LOW	64QAM	19.95	19.82	20.02	21.20
		MID	64QAM	20.06	20.02	19.94	21.20
		HIGH	64QAM	19.79	20.02	20.07	21.20
	25	LOW	64QAM	19.95	20.01	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	QPSK	22.82	22.84	22.79	24.20
		MID	QPSK	23.18	23.06	**23.22**	24.20
		HIGH	QPSK	22.81	22.90	23.00	24.20
	25	LOW	QPSK	21.91	21.85	21.94	23.20
		MID	QPSK	22.07	21.88	21.92	23.20
		HIGH	QPSK	21.90	21.88	21.91	23.20
	50	LOW	QPSK	21.83	21.88	22.15	23.20
10	1	LOW	Q16	22.34	22.05	22.24	23.20
		MID	Q16	22.63	22.42	22.62	23.20
		HIGH	Q16	22.22	22.21	22.43	23.20
	25	LOW	Q16	21.04	20.89	20.95	22.20
		MID	Q16	20.84	20.90	21.14	22.20
		HIGH	Q16	20.96	20.98	20.99	22.20
	50	LOW	Q16	20.97	20.88	20.98	22.20
10	1	LOW	64QAM	21.13	21.11	21.13	22.20
		MID	64QAM	21.54	21.31	21.59	22.20
		HIGH	64QAM	21.15	21.19	21.35	22.20
	25	LOW	64QAM	19.79	19.99	20.08	21.20
		MID	64QAM	19.89	19.97	19.93	21.20
		HIGH	64QAM	19.88	19.87	19.99	21.20
	50	LOW	64QAM	19.80	19.96	20.03	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	QPSK	22.91	22.86	22.80	24.20
		MID	QPSK	23.16	23.02	**23.18**	24.20
		HIGH	QPSK	22.75	22.88	23.17	24.20
	36	LOW	QPSK	21.81	21.92	22.05	23.20
		MID	QPSK	21.83	22.11	22.14	23.20
		HIGH	QPSK	21.98	21.96	22.12	23.20
	75	LOW	QPSK	21.99	21.85	22.06	23.20
15	1	LOW	Q16	22.24	22.25	22.13	23.20
		MID	Q16	22.58	22.49	22.55	23.20
		HIGH	Q16	22.13	22.04	22.42	23.20
	36	LOW	Q16	20.91	20.93	20.86	22.20
		MID	Q16	20.78	21.10	21.04	22.20
		HIGH	Q16	21.07	20.87	21.06	22.20
	75	LOW	Q16	20.83	20.81	20.95	22.20
15	1	LOW	64QAM	21.08	21.08	21.25	22.20
		MID	64QAM	21.68	21.40	21.66	22.20
		HIGH	64QAM	21.21	21.09	21.52	22.20
	36	LOW	64QAM	19.76	19.92	19.99	21.20
		MID	64QAM	19.83	20.00	20.13	21.20
		HIGH	64QAM	20.00	19.99	20.13	21.20
	75	LOW	64QAM	20.00	20.05	20.09	21.20
Bandwidth(MHz)	RB Size	RB offest	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	QPSK	22.87	22.88	22.89	24.20
		MID	QPSK	23.23	23.17	**23.32**	24.20
		HIGH	QPSK	22.87	22.82	23.06	24.20
	50	LOW	QPSK	21.94	21.97	21.94	23.20
		MID	QPSK	21.97	21.96	22.04	23.20
		HIGH	QPSK	21.95	21.92	22.04	23.20
	100	LOW	QPSK	21.93	21.94	22.01	23.20
20	1	LOW	Q16	22.19	22.10	22.25	23.20
		MID	Q16	22.54	22.41	**22.70**	23.20
		HIGH	Q16	22.21	22.08	22.39	23.20
	50	LOW	Q16	20.90	20.95	20.93	22.20
		MID	Q16	20.92	20.96	21.05	22.20
		HIGH	Q16	20.92	20.88	21.05	22.20
	100	LOW	Q16	20.90	20.91	20.99	22.20
20	1	LOW	64QAM	21.27	21.12	21.30	22.20
		MID	64QAM	21.50	21.27	**21.69**	22.20
		HIGH	64QAM	21.17	21.23	21.45	22.20
	50	LOW	64QAM	19.97	19.85	20.03	21.20
		MID	64QAM	20.02	20.09	19.99	21.20
		HIGH	64QAM	19.94	19.90	20.11	21.20
	100	LOW	64QAM	20.05	20.04	20.11	21.20

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Bandwidth (MHz)	RB Size	RB offest	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	QPSK	22.99	22.96	22.88	22.84	22.84	24.00
		MID	QPSK	23.09	23.02	**23.11**	22.98	22.97	24.00
		HIGH	QPSK	23.02	22.95	22.87	22.86	22.86	24.00
	12	LOW	QPSK	22.03	22.08	21.96	21.91	21.94	23.00
		MID	QPSK	22.14	22.15	22.07	22.01	22.03	23.00
		HIGH	QPSK	22.07	22.06	21.99	21.93	21.97	23.00
	25	LOW	QPSK	22.06	22.10	21.98	21.93	21.98	23.00
5	1	LOW	Q16	21.99	22.11	22.01	21.82	22.05	23.00
		MID	Q16	22.13	22.25	22.14	21.99	22.19	23.00
		HIGH	Q16	22.02	22.08	21.97	21.85	22.09	23.00
	12	LOW	Q16	21.00	21.05	20.96	20.86	21.06	22.00
		MID	Q16	21.11	21.11	21.00	20.97	21.16	22.00
		HIGH	Q16	21.04	21.04	20.91	20.91	21.08	22.00
	25	LOW	Q16	21.02	21.11	20.98	20.87	21.08	22.00
5	1	LOW	64QAM	20.89	21.25	21.13	20.84	21.00	22.00
		MID	64QAM	21.01	21.29	21.27	21.00	21.34	22.00
		HIGH	64QAM	21.07	21.00	20.91	21.00	20.97	22.00
	12	LOW	64QAM	19.86	19.95	20.06	19.75	20.17	21.00
		MID	64QAM	20.07	20.04	19.98	19.97	20.11	21.00
		HIGH	64QAM	20.03	20.03	19.94	19.79	19.96	21.00
	25	LOW	64QAM	19.88	20.23	20.02	19.95	20.15	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	QPSK	23.02	23.06	23.01	23.01	22.88	24.00
		MID	QPSK	**23.35**	**23.35**	23.27	23.24	23.21	24.00
		HIGH	QPSK	23.05	23.07	22.96	22.97	22.93	24.00
	25	LOW	QPSK	22.07	22.10	22.06	22.01	21.97	23.00
		MID	QPSK	22.08	22.08	22.00	21.96	21.97	23.00
		HIGH	QPSK	22.13	22.14	22.04	22.01	22.01	23.00
	50	LOW	QPSK	22.02	22.02	22.01	21.93	21.94	23.00
10	1	LOW	Q16	22.13	22.11	22.21	22.08	22.07	23.00
		MID	Q16	22.41	22.40	22.51	22.37	22.45	23.00
		HIGH	Q16	22.15	22.17	22.20	22.14	22.14	23.00
	25	LOW	Q16	21.01	21.05	21.05	20.95	21.03	22.00
		MID	Q16	21.06	21.06	21.02	20.93	21.07	22.00
		HIGH	Q16	21.09	21.07	21.02	20.97	21.08	22.00
	50	LOW	Q16	21.00	21.00	21.01	20.95	20.99	22.00
10	1	LOW	64QAM	21.08	21.00	21.07	21.02	21.15	22.00
		MID	64QAM	21.30	21.43	21.61	21.38	21.32	22.00
		HIGH	64QAM	21.15	21.29	21.35	21.09	21.04	22.00
	25	LOW	64QAM	19.90	19.99	20.05	19.98	20.06	21.00
		MID	64QAM	20.17	19.95	20.17	19.84	20.21	21.00
		HIGH	64QAM	20.20	20.12	20.08	19.87	20.00	21.00
	50	LOW	64QAM	19.94	19.88	20.16	19.98	19.88	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	QPSK	23.04	23.06	23.00	22.90	22.80	24.00
		MID	QPSK	23.06	**23.15**	23.03	22.96	22.97	24.00
		HIGH	QPSK	23.04	23.02	22.92	22.85	22.85	24.00
	36	LOW	QPSK	22.09	22.17	22.03	21.96	21.87	23.00
		MID	QPSK	22.16	22.16	22.02	21.99	21.88	23.00
		HIGH	QPSK	22.11	22.12	21.98	21.94	21.88	23.00
	75	LOW	QPSK	22.13	22.12	21.99	21.97	21.89	23.00
15	1	LOW	Q16	22.10	22.09	22.24	22.03	21.96	23.00
		MID	Q16	22.15	22.18	22.28	22.10	22.06	23.00
		HIGH	Q16	22.08	22.06	22.18	22.03	22.02	23.00
	36	LOW	Q16	20.99	21.06	20.98	20.97	20.90	22.00
		MID	Q16	21.07	21.06	20.97	20.97	20.95	22.00
		HIGH	Q16	21.04	21.04	20.94	20.95	20.94	22.00
	75	LOW	Q16	21.05	21.07	20.99	20.94	20.92	22.00
15	1	LOW	64QAM	20.98	21.04	21.25	21.02	20.84	22.00
		MID	64QAM	21.30	21.27	21.36	21.17	21.15	22.00
		HIGH	64QAM	20.93	20.95	21.04	20.95	21.03	22.00
	36	LOW	64QAM	19.98	20.05	20.12	20.04	19.88	21.00
		MID	64QAM	19.97	19.96	19.88	19.93	20.09	21.00
		HIGH	64QAM	20.03	19.98	20.08	19.81	20.01	21.00
	75	LOW	64QAM	20.09	20.02	20.01	19.95	19.81	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	QPSK	22.94	22.99	22.92	22.93	22.83	24.00
		MID	QPSK	23.30	23.30	**23.33**	23.24	23.17	24.00
		HIGH	QPSK	22.94	22.95	22.86	22.91	22.90	24.00
	50	LOW	QPSK	21.97	22.02	21.97	21.93	21.85	23.00
		MID	QPSK	22.03	22.08	22.09	21.94	21.90	23.00
		HIGH	QPSK	22.00	21.99	21.93	21.89	21.92	23.00
	100	LOW	QPSK	21.99	21.99	21.94	21.94	21.87	23.00
20	1	LOW	Q16	21.99	22.05	21.96	22.06	21.96	23.00
		MID	Q16	22.41	22.42	22.25	22.42	22.34	23.00
		HIGH	Q16	22.04	22.00	21.90	22.11	22.06	23.00
	50	LOW	Q16	20.88	20.94	20.96	20.93	20.90	22.00
		MID	Q16	21.00	21.00	20.96	20.97	20.96	22.00
		HIGH	Q16	20.97	20.95	20.91	20.93	20.97	22.00
	100	LOW	Q16	20.94	20.94	20.93	20.89	20.88	22.00
20	1	LOW	64QAM	21.14	21.00	20.85	21.09	20.98	22.00
		MID	64QAM	21.47	21.28	21.17	21.36	21.33	22.00
		HIGH	64QAM	21.14	21.12	20.82	21.26	21.04	22.00
	50	LOW	64QAM	19.96	19.81	19.99	20.06	19.76	21.00
		MID	64QAM	20.00	20.05	20.07	20.05	20.09	21.00
		HIGH	64QAM	20.10	20.03	20.01	20.03	19.97	21.00
	100	LOW	64QAM	19.85	19.81	19.78	19.90	20.00	21.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	0	QPSK	19.41	19.39	19.34	19.28	19.32	20.50
		MID	12	QPSK	19.55	19.54	19.53	19.41	19.48	20.50
		HIGH	24	QPSK	19.45	19.39	19.32	19.31	19.36	20.50
	12	LOW	0	QPSK	19.47	19.48	19.43	19.35	19.40	20.50
		MID	7	QPSK	19.56	19.57	19.49	19.46	19.50	20.50
		HIGH	13	QPSK	19.53	19.49	19.43	19.38	19.45	20.50
	25	LOW	0	QPSK	19.49	19.48	19.39	19.35	19.44	20.50
5	1	LOW	0	Q16	19.44	19.54	19.43	19.26	19.48	20.50
		MID	12	Q16	19.60	19.66	19.59	19.40	19.66	20.50
		HIGH	24	Q16	19.46	19.52	19.43	19.28	19.54	20.50
	12	LOW	0	Q16	19.54	19.50	19.42	19.37	19.51	20.50
		MID	7	Q16	19.59	19.56	19.47	19.45	19.62	20.50
		HIGH	13	Q16	19.55	19.47	19.42	19.38	19.53	20.50
	25	LOW	0	Q16	19.50	19.56	19.46	19.36	19.48	20.50
5	1	LOW	0	64QAM	19.36	19.45	19.57	19.35	19.58	20.50
		MID	12	64QAM	19.47	19.55	19.53	19.41	19.67	20.50
		HIGH	24	64QAM	19.42	19.54	19.56	19.26	19.40	20.50
	12	LOW	0	64QAM	19.60	19.43	19.42	19.34	19.65	20.50
		MID	7	64QAM	19.48	19.51	19.53	19.38	19.47	20.50
		HIGH	13	64QAM	19.61	19.50	19.30	19.26	19.58	20.50
	25	LOW	0	64QAM	19.52	19.49	19.40	19.34	19.38	20.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	0	QPSK	19.46	19.48	19.48	19.38	19.38	20.50
		MID	25	QPSK	19.78	19.78	19.73	19.71	19.70	20.50
		HIGH	49	QPSK	19.49	19.49	19.43	19.42	19.45	20.50
	25	LOW	0	QPSK	19.52	19.56	19.49	19.43	19.42	20.50
		MID	12	QPSK	19.54	19.53	19.47	19.39	19.44	20.50
		HIGH	25	QPSK	19.58	19.57	19.46	19.40	19.48	20.50
	50	LOW	0	QPSK	19.51	19.52	19.45	19.36	19.39	20.50
10	1	LOW	0	Q16	19.53	19.55	19.67	19.52	19.56	20.50
		MID	25	Q16	19.86	19.85	19.96	19.81	19.91	20.50
		HIGH	49	Q16	19.54	19.55	19.64	19.54	19.64	20.50
	25	LOW	0	Q16	19.52	19.55	19.50	19.43	19.47	20.50
		MID	12	Q16	19.56	19.50	19.49	19.43	19.51	20.50
		HIGH	25	Q16	19.59	19.55	19.48	19.42	19.52	20.50
	50	LOW	0	Q16	19.52	19.46	19.45	19.37	19.47	20.50
10	1	LOW	0	64QAM	19.63	19.68	19.66	19.65	19.52	20.50
		MID	25	64QAM	19.88	19.72	19.71	19.92	19.94	20.50
		HIGH	49	64QAM	19.49	19.53	19.64	19.68	19.70	20.50
	25	LOW	0	64QAM	19.39	19.70	19.35	19.29	19.40	20.50
		MID	12	64QAM	19.49	19.54	19.50	19.45	19.40	20.50
		HIGH	25	64QAM	19.51	19.51	19.63	19.55	19.52	20.50
	50	LOW	0	64QAM	19.41	19.32	19.32	19.37	19.61	20.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	0	QPSK	19.46	19.47	19.43	19.33	19.29	20.50
		MID	37	QPSK	19.51	19.54	19.49	19.43	19.41	20.50
		HIGH	74	QPSK	19.43	19.38	19.40	19.32	19.36	20.50
	36	LOW	0	QPSK	19.52	19.56	19.48	19.45	19.39	20.50
		MID	20	QPSK	19.53	19.55	19.47	19.45	19.41	20.50
		HIGH	39	QPSK	19.57	19.54	19.44	19.42	19.40	20.50
	75	LOW	0	QPSK	19.56	19.55	19.48	19.43	19.41	20.50
15	1	LOW	0	Q16	19.50	19.49	19.68	19.42	19.39	20.50
		MID	37	Q16	19.60	19.61	19.72	19.53	19.53	20.50
		HIGH	74	Q16	19.50	19.46	19.62	19.43	19.47	20.50
	36	LOW	0	Q16	19.47	19.50	19.43	19.39	19.39	20.50
		MID	20	Q16	19.52	19.49	19.44	19.43	19.40	20.50
		HIGH	39	Q16	19.52	19.48	19.40	19.38	19.40	20.50
	75	LOW	0	Q16	19.55	19.52	19.45	19.41	19.40	20.50
15	1	LOW	0	64QAM	19.56	19.61	19.83	19.40	19.53	20.50
		MID	37	64QAM	19.54	19.46	19.83	19.52	19.60	20.50
		HIGH	74	64QAM	19.50	19.45	19.48	19.43	19.51	20.50
	36	LOW	0	64QAM	19.46	19.42	19.50	19.43	19.26	20.50
		MID	20	64QAM	19.64	19.45	19.37	19.32	19.42	20.50
		HIGH	39	64QAM	19.62	19.39	19.27	19.52	19.51	20.50
	75	LOW	0	64QAM	19.47	19.46	19.52	19.54	19.36	20.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	0	QPSK	19.37	19.37	19.38	19.35	19.31	20.50
		MID	49	QPSK	19.71	19.74	19.75	19.73	19.71	20.50
		HIGH	99	QPSK	19.39	19.35	19.28	19.40	19.40	20.50
	50	LOW	0	QPSK	19.43	19.46	19.44	19.35	19.38	20.50
		MID	24	QPSK	19.50	19.50	19.54	19.41	19.39	20.50
		HIGH	50	QPSK	19.49	19.45	19.41	19.35	19.32	20.50
	100	LOW	0	QPSK	19.46	19.44	19.43	19.33	19.35	20.50
20	1	LOW	0	Q16	19.47	19.45	19.40	19.49	19.44	20.50
		MID	49	Q16	19.86	19.86	19.72	19.85	19.82	20.50
		HIGH	99	Q16	19.48	19.46	19.32	19.50	19.54	20.50
	50	LOW	0	Q16	19.40	19.43	19.45	19.35	19.40	20.50
		MID	24	Q16	19.46	19.49	19.44	19.42	19.44	20.50
		HIGH	50	Q16	19.49	19.42	19.36	19.38	19.43	20.50
	100	LOW	0	Q16	19.45	19.43	19.43	19.42	19.37	20.50
20	1	LOW	0	64QAM	19.37	19.34	19.52	19.46	19.58	20.50
		MID	49	64QAM	19.98	19.99	19.80	19.97	19.78	20.50
		HIGH	99	64QAM	19.47	19.50	19.42	19.56	19.45	20.50
	50	LOW	0	64QAM	19.55	19.38	19.56	19.43	19.39	20.50
		MID	24	64QAM	19.58	19.46	19.33	19.33	19.29	20.50
		HIGH	50	64QAM	19.51	19.46	19.51	19.30	19.39	20.50
	100	LOW	0	64QAM	19.36	19.49	19.55	19.56	19.43	20.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	0	QPSK	18.44	18.44	18.35	18.30	18.38	19.50
		MID	12	QPSK	18.56	18.59	18.48	18.45	18.48	19.50
		HIGH	24	QPSK	18.50	18.41	18.37	18.33	18.39	19.50
	12	LOW	0	QPSK	18.50	18.51	18.42	18.34	18.42	19.50
		MID	7	QPSK	18.59	18.56	18.48	18.47	18.55	19.50
		HIGH	13	QPSK	18.51	18.52	18.43	18.37	18.45	19.50
	25	LOW	0	QPSK	18.52	18.53	18.39	18.37	18.47	19.50
5	1	LOW	0	Q16	18.55	18.65	18.40	18.40	18.41	19.50
		MID	12	Q16	18.70	18.80	18.55	18.52	18.55	19.50
		HIGH	24	Q16	18.59	18.65	18.38	18.39	18.44	19.50
	12	LOW	0	Q16	18.53	18.64	18.46	18.34	18.48	19.50
		MID	7	Q16	18.62	18.68	18.54	18.44	18.59	19.50
		HIGH	13	Q16	18.56	18.61	18.50	18.34	18.49	19.50
	25	LOW	0	Q16	18.57	18.55	18.44	18.42	18.51	19.50
5	1	LOW	0	64QAM	18.53	18.66	18.27	18.54	18.35	19.50
		MID	12	64QAM	18.58	18.73	18.54	18.60	18.48	19.50
		HIGH	24	64QAM	18.44	18.53	18.47	18.53	18.50	19.50
	12	LOW	0	64QAM	18.59	18.67	18.44	18.31	18.37	19.50
		MID	7	64QAM	18.54	18.53	18.64	18.55	18.57	19.50
		HIGH	13	64QAM	18.63	18.47	18.61	18.28	18.60	19.50
	25	LOW	0	64QAM	18.60	18.62	18.51	18.46	18.40	19.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	0	QPSK	18.53	18.50	18.51	18.40	18.42	19.50
		MID	25	QPSK	18.81	18.78	18.74	18.71	18.76	19.50
		HIGH	49	QPSK	18.53	18.47	18.48	18.44	18.50	19.50
	25	LOW	0	QPSK	18.53	18.52	18.49	18.45	18.46	19.50
		MID	12	QPSK	18.55	18.50	18.47	18.40	18.49	19.50
		HIGH	25	QPSK	18.60	18.54	18.47	18.44	18.48	19.50
	50	LOW	0	QPSK	18.57	18.50	18.44	18.37	18.43	19.50
10	1	LOW	0	Q16	18.62	18.58	18.73	18.57	18.61	19.50
		MID	25	Q16	18.91	18.87	18.98	18.86	18.94	19.50
		HIGH	49	Q16	18.62	18.64	18.70	18.59	18.71	19.50
	25	LOW	0	Q16	18.57	18.57	18.51	18.45	18.51	19.50
		MID	12	Q16	18.61	18.57	18.51	18.44	18.55	19.50
		HIGH	25	Q16	18.65	18.58	18.50	18.43	18.56	19.50
	50	LOW	0	Q16	18.59	18.51	18.49	18.42	18.50	19.50
10	1	LOW	0	64QAM	18.75	18.45	18.59	18.44	18.52	19.50
		MID	25	64QAM	18.88	18.83	19.00	18.98	18.96	19.50
		HIGH	49	64QAM	18.47	18.62	18.82	18.71	18.77	19.50
	25	LOW	0	64QAM	18.45	18.59	18.40	18.39	18.66	19.50
		MID	12	64QAM	18.74	18.56	18.57	18.50	18.69	19.50
		HIGH	25	64QAM	18.79	18.51	18.41	18.53	18.46	19.50
	50	LOW	0	64QAM	18.73	18.61	18.49	18.50	18.39	19.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	0	QPSK	18.50	18.46	18.45	18.38	18.33	19.50
		MID	37	QPSK	18.57	18.55	18.47	18.43	18.44	19.50
		HIGH	74	QPSK	18.48	18.44	18.37	18.40	18.38	19.50
	36	LOW	0	QPSK	18.56	18.59	18.49	18.45	18.46	19.50
		MID	20	QPSK	18.61	18.57	18.50	18.46	18.46	19.50
		HIGH	39	QPSK	18.59	18.58	18.47	18.45	18.47	19.50
	75	LOW	0	QPSK	18.59	18.57	18.49	18.46	18.44	19.50
15	1	LOW	0	Q16	18.56	18.55	18.71	18.48	18.45	19.50
		MID	37	Q16	18.67	18.65	18.76	18.56	18.57	19.50
		HIGH	74	Q16	18.59	18.52	18.67	18.49	18.54	19.50
	36	LOW	0	Q16	18.51	18.52	18.47	18.43	18.41	19.50
		MID	20	Q16	18.57	18.52	18.46	18.46	18.45	19.50
		HIGH	39	Q16	18.55	18.54	18.43	18.44	18.44	19.50
	75	LOW	0	Q16	18.59	18.54	18.47	18.44	18.43	19.50
15	1	LOW	0	64QAM	18.55	18.68	18.61	18.57	18.33	19.50
		MID	37	64QAM	18.70	18.77	18.91	18.48	18.58	19.50
		HIGH	74	64QAM	18.73	18.57	18.82	18.37	18.67	19.50
	36	LOW	0	64QAM	18.51	18.49	18.33	18.43	18.31	19.50
		MID	20	64QAM	18.66	18.64	18.44	18.37	18.52	19.50
		HIGH	39	64QAM	18.47	18.61	18.53	18.40	18.53	19.50
	75	LOW	0	64QAM	18.64	18.43	18.40	18.40	18.35	19.50
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	0	QPSK	18.43	18.42	18.39	18.41	18.36	19.50
		MID	49	QPSK	18.73	18.76	18.79	18.74	18.72	19.50
		HIGH	99	QPSK	18.45	18.37	18.33	18.40	18.44	19.50
	50	LOW	0	QPSK	18.43	18.47	18.53	18.35	18.38	19.50
		MID	24	QPSK	18.53	18.52	18.57	18.39	18.40	19.50
		HIGH	50	QPSK	18.52	18.45	18.49	18.35	18.39	19.50
	100	LOW	0	QPSK	18.51	18.45	18.43	18.36	18.37	19.50
20	1	LOW	0	Q16	18.55	18.50	18.45	18.49	18.50	19.50
		MID	49	Q16	18.92	18.89	18.74	18.89	18.88	19.50
		HIGH	99	Q16	18.57	18.46	18.36	18.55	18.58	19.50
	50	LOW	0	Q16	18.48	18.47	18.49	18.39	18.46	19.50
		MID	24	Q16	18.56	18.50	18.48	18.46	18.48	19.50
		HIGH	50	Q16	18.54	18.46	18.43	18.40	18.44	19.50
	100	LOW	0	Q16	18.53	18.46	18.47	18.40	18.40	19.50
20	1	LOW	0	64QAM	18.60	18.42	18.47	18.64	18.55	19.50
		MID	49	64QAM	18.92	19.02	18.64	18.83	18.93	19.50
		HIGH	99	64QAM	18.72	18.47	18.37	18.59	18.64	19.50
	50	LOW	0	64QAM	18.58	18.48	18.45	18.54	18.35	19.50
		MID	24	64QAM	18.68	18.39	18.41	18.48	18.33	19.50
		HIGH	50	64QAM	18.59	18.53	18.43	18.52	18.50	19.50
	100	LOW	0	64QAM	18.61	18.48	18.41	18.53	18.49	19.50

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	0	QPSK	21.51	21.46	21.43	21.33	21.44	22.50
		MID	12	QPSK	21.62	21.60	21.59	21.50	21.60	22.50
		HIGH	24	QPSK	21.53	21.46	21.42	21.35	21.47	22.50
	12	LOW	0	QPSK	21.56	21.57	21.47	21.39	21.51	22.50
		MID	7	QPSK	21.66	21.63	21.56	21.53	21.60	22.50
		HIGH	13	QPSK	21.58	21.54	21.51	21.44	21.56	22.50
	25	LOW	0	QPSK	21.57	21.56	21.49	21.44	21.60	22.50
5	1	LOW	0	Q16	21.65	21.57	21.60	21.33	21.55	22.50
		MID	12	Q16	21.76	21.74	21.73	21.47	21.70	22.50
		HIGH	24	Q16	21.65	21.58	21.59	21.37	21.58	22.50
	12	LOW	0	Q16	21.11	21.05	21.07	20.90	21.01	22.00
		MID	7	Q16	21.16	21.11	21.13	20.98	21.13	22.00
		HIGH	13	Q16	21.11	21.03	21.08	20.90	21.05	22.00
	25	LOW	0	Q16	21.05	21.12	20.99	20.91	21.14	22.00
5	1	LOW	0	64QAM	21.02	20.99	21.08	20.92	21.16	22.00
		MID	12	64QAM	21.14	21.32	21.17	20.90	21.09	22.00
		HIGH	24	64QAM	21.17	21.18	21.09	20.93	20.97	22.00
	12	LOW	0	64QAM	20.00	20.03	20.12	19.88	20.07	21.00
		MID	7	64QAM	20.21	19.96	20.26	19.96	20.04	21.00
		HIGH	13	64QAM	20.11	20.09	19.93	19.98	20.09	21.00
	25	LOW	0	64QAM	20.11	20.14	20.06	19.76	19.99	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	0	QPSK	21.56	21.55	21.54	21.50	21.49	22.50
		MID	25	QPSK	21.90	21.87	21.84	21.77	21.83	22.50
		HIGH	49	QPSK	21.59	21.57	21.53	21.53	21.59	22.50
	25	LOW	0	QPSK	21.57	21.62	21.57	21.50	21.54	22.50
		MID	12	QPSK	21.62	21.58	21.56	21.49	21.56	22.50
		HIGH	25	QPSK	21.65	21.62	21.55	21.51	21.57	22.50
	50	LOW	0	QPSK	21.56	21.54	21.52	21.45	21.52	22.50
10	1	LOW	0	Q16	21.62	21.60	21.74	21.58	21.66	22.50
		MID	25	Q16	21.73	21.88	21.82	21.90	21.83	22.50
		HIGH	49	Q16	21.64	21.60	21.72	21.63	21.77	22.50
	25	LOW	0	Q16	21.06	21.05	21.05	20.99	21.07	22.00
		MID	12	Q16	21.10	21.04	21.04	20.99	21.09	22.00
		HIGH	25	Q16	21.14	21.09	21.04	20.99	21.11	22.00
	50	LOW	0	Q16	21.02	21.02	21.04	20.94	21.06	22.00
10	1	LOW	0	64QAM	21.00	21.24	21.15	21.00	21.08	22.00
		MID	25	64QAM	21.27	21.30	21.30	21.34	21.38	22.00
		HIGH	49	64QAM	21.25	20.97	21.35	21.11	21.39	22.00
	25	LOW	0	64QAM	20.14	20.15	19.96	20.08	20.03	21.00
		MID	12	64QAM	20.25	19.90	20.15	20.10	19.98	21.00
		HIGH	25	64QAM	20.02	20.19	19.95	19.86	20.25	21.00
	50	LOW	0	64QAM	20.16	19.91	20.02	19.82	20.03	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	0	QPSK	21.55	21.54	21.52	21.44	21.43	22.50
		MID	37	QPSK	21.62	21.66	21.60	21.52	21.53	22.50
		HIGH	74	QPSK	21.51	21.53	21.48	21.45	21.50	22.50
	36	LOW	0	QPSK	21.59	21.65	21.56	21.50	21.47	22.50
		MID	20	QPSK	21.67	21.70	21.56	21.53	21.47	22.50
		HIGH	39	QPSK	21.64	21.64	21.56	21.50	21.48	22.50
	75	LOW	0	QPSK	21.65	21.63	21.55	21.49	21.47	22.50
15	1	LOW	0	Q16	21.57	21.59	21.76	21.54	21.52	22.50
		MID	37	Q16	21.66	21.69	21.78	21.63	21.65	22.50
		HIGH	74	Q16	21.58	21.56	21.69	21.53	21.61	22.50
	36	LOW	0	Q16	21.05	21.08	21.00	20.98	20.97	22.00
		MID	20	Q16	21.09	21.09	20.98	21.02	20.98	22.00
		HIGH	39	Q16	21.05	21.08	20.98	21.01	21.00	22.00
	75	LOW	0	Q16	21.09	21.07	21.04	20.99	20.96	22.00
15	1	LOW	0	64QAM	21.14	21.06	21.14	21.09	21.03	22.00
		MID	37	64QAM	21.30	21.28	21.17	21.09	21.18	22.00
		HIGH	74	64QAM	21.03	21.15	21.13	21.00	21.20	22.00
	36	LOW	0	64QAM	20.14	19.95	19.90	20.06	20.04	21.00
		MID	20	64QAM	20.19	20.03	20.03	20.12	20.05	21.00
		HIGH	39	64QAM	20.20	20.16	19.95	20.16	20.01	21.00
	75	LOW	0	64QAM	20.14	20.14	19.94	20.07	19.84	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	0	QPSK	21.47	21.49	21.47	21.45	21.41	22.50
		MID	49	QPSK	21.76	21.78	21.84	21.81	21.79	22.50
		HIGH	99	QPSK	21.46	21.45	21.37	21.49	21.53	22.50
	50	LOW	0	QPSK	21.47	21.53	21.49	21.43	21.45	22.50
		MID	24	QPSK	21.53	21.56	21.58	21.48	21.49	22.50
		HIGH	50	QPSK	21.54	21.50	21.45	21.44	21.45	22.50
	100	LOW	0	QPSK	21.49	21.49	21.48	21.43	21.47	22.50
20	1	LOW	0	Q16	21.52	21.53	21.49	21.55	21.54	22.50
		MID	49	Q16	21.89	21.78	21.80	21.76	21.80	22.50
		HIGH	99	Q16	21.54	21.50	21.38	21.59	21.65	22.50
	50	LOW	0	Q16	20.89	20.96	20.99	20.96	20.95	22.00
		MID	24	Q16	20.99	21.02	21.02	20.99	21.02	22.00
		HIGH	50	Q16	20.98	20.96	20.95	20.96	21.05	22.00
	100	LOW	0	Q16	20.95	20.96	20.97	20.92	20.93	22.00
20	1	LOW	0	64QAM	21.16	21.12	20.92	20.97	20.90	22.00
		MID	49	64QAM	21.34	21.28	21.36	21.27	21.26	22.00
		HIGH	99	64QAM	21.03	20.96	20.96	21.19	21.08	22.00
	50	LOW	0	64QAM	20.04	19.97	20.01	19.84	19.94	21.00
		MID	24	64QAM	19.98	20.11	20.08	19.91	20.15	21.00
		HIGH	50	64QAM	19.89	19.82	20.09	20.05	20.04	21.00
	100	LOW	0	64QAM	20.07	19.85	19.88	20.00	19.90	21.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	0	QPSK	20.44	20.45	20.37	20.31	20.40	21.50
		MID	12	QPSK	20.58	20.58	20.52	20.45	20.54	21.50
		HIGH	24	QPSK	20.46	20.42	20.35	20.35	20.43	21.50
	12	LOW	0	QPSK	20.49	20.55	20.44	20.35	20.47	21.50
		MID	7	QPSK	20.60	20.64	20.53	20.49	20.59	21.50
		HIGH	13	QPSK	20.51	20.54	20.43	20.41	20.53	21.50
	25	LOW	0	QPSK	20.53	20.54	20.45	20.40	20.55	21.50
5	1	LOW	0	Q16	20.51	20.64	20.38	20.38	20.42	21.50
		MID	12	Q16	20.66	20.78	20.54	20.55	20.60	21.50
		HIGH	24	Q16	20.54	20.62	20.38	20.40	20.46	21.50
	12	LOW	0	Q16	20.48	20.64	20.47	20.34	20.53	21.50
		MID	7	Q16	20.58	20.71	20.54	20.46	20.65	21.50
		HIGH	13	Q16	20.52	20.60	20.48	20.36	20.56	21.50
	25	LOW	0	Q16	20.54	20.59	20.48	20.43	20.58	21.50
5	1	LOW	0	64QAM	20.36	20.61	20.31	20.34	20.29	21.50
		MID	12	64QAM	20.65	20.87	20.65	20.51	20.59	21.50
		HIGH	24	64QAM	20.51	20.49	20.38	20.35	20.35	21.50
	12	LOW	0	64QAM	19.93	20.13	20.07	19.79	19.94	21.00
		MID	7	64QAM	20.10	20.13	20.00	20.07	20.11	21.00
		HIGH	13	64QAM	19.93	20.23	19.84	19.79	20.00	21.00
	25	LOW	0	64QAM	19.90	20.00	19.98	19.90	20.02	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	0	QPSK	20.51	20.49	20.51	20.43	20.44	21.50
		MID	25	QPSK	20.82	20.81	20.78	20.74	20.82	21.50
		HIGH	49	QPSK	20.52	20.50	20.47	20.44	20.55	21.50
	25	LOW	0	QPSK	20.55	20.56	20.54	20.45	20.50	21.50
		MID	12	QPSK	20.58	20.56	20.54	20.47	20.53	21.50
		HIGH	25	QPSK	20.62	20.61	20.50	20.44	20.56	21.50
	50	LOW	0	QPSK	20.53	20.50	20.53	20.39	20.50	21.50
10	1	LOW	0	Q16	20.57	20.53	20.68	20.56	20.65	21.50
		MID	25	Q16	20.88	20.83	20.80	20.86	20.87	21.50
		HIGH	49	Q16	20.59	20.59	20.68	20.57	20.74	21.50
	25	LOW	0	Q16	20.53	20.55	20.54	20.47	20.56	21.50
		MID	12	Q16	20.58	20.54	20.51	20.47	20.60	21.50
		HIGH	25	Q16	20.62	20.58	20.51	20.47	20.62	21.50
	50	LOW	0	Q16	20.56	20.53	20.54	20.45	20.56	21.50
10	1	LOW	0	64QAM	20.49	20.60	20.73	20.47	20.54	21.50
		MID	25	64QAM	20.82	20.88	20.86	20.83	20.85	21.50
		HIGH	49	64QAM	20.64	20.71	20.69	20.61	20.74	21.50
	25	LOW	0	64QAM	20.04	20.00	20.13	19.88	20.20	21.00
		MID	12	64QAM	19.94	19.91	19.94	19.84	20.08	21.00
		HIGH	25	64QAM	20.24	19.93	19.95	19.98	20.27	21.00
	50	LOW	0	64QAM	20.09	20.07	19.92	20.10	20.00	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	0	QPSK	20.46	20.49	20.46	20.38	20.38	21.50
		MID	37	QPSK	20.55	20.58	20.53	20.46	20.49	21.50
		HIGH	74	QPSK	20.46	20.46	20.40	20.40	20.44	21.50
	36	LOW	0	QPSK	20.56	20.61	20.52	20.47	20.45	21.50
		MID	20	QPSK	20.62	20.62	20.55	20.58	20.48	21.50
		HIGH	39	QPSK	20.59	20.58	20.51	20.46	20.46	21.50
	75	LOW	0	QPSK	20.59	20.60	20.54	20.48	20.44	21.50
15	1	LOW	0	Q16	20.54	20.54	20.71	20.49	20.48	21.50
		MID	37	Q16	20.61	20.64	20.77	20.58	20.61	21.50
		HIGH	74	Q16	20.52	20.50	20.63	20.48	20.56	21.50
	36	LOW	0	Q16	20.51	20.55	20.50	20.46	20.46	21.50
		MID	20	Q16	20.55	20.56	20.47	20.49	20.49	21.50
		HIGH	39	Q16	20.57	20.54	20.47	20.49	20.49	21.50
	75	LOW	0	Q16	20.56	20.55	20.52	20.46	20.46	21.50
15	1	LOW	0	64QAM	20.55	20.63	20.70	20.57	20.60	21.50
		MID	37	64QAM	20.72	20.72	20.82	20.73	20.49	21.50
		HIGH	74	64QAM	20.51	20.49	20.66	20.45	20.43	21.50
	36	LOW	0	64QAM	20.11	20.07	19.89	20.00	19.95	21.00
		MID	20	64QAM	20.11	20.04	19.88	19.93	19.92	21.00
		HIGH	39	64QAM	19.97	20.17	19.91	19.96	19.98	21.00
	75	LOW	0	64QAM	19.92	19.92	20.12	20.09	19.88	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	0	QPSK	20.39	20.40	20.40	20.43	20.37	21.50
		MID	49	QPSK	20.78	20.81	20.83	20.80	20.78	21.50
		HIGH	99	QPSK	20.39	20.38	20.32	20.42	20.48	21.50
	50	LOW	0	QPSK	20.42	20.48	20.50	20.40	20.42	21.50
		MID	24	QPSK	20.53	20.54	20.57	20.43	20.45	21.50
		HIGH	50	QPSK	20.53	20.48	20.46	20.40	20.44	21.50
	100	LOW	0	QPSK	20.48	20.46	20.45	20.37	20.43	21.50
20	1	LOW	0	Q16	20.47	20.47	20.43	20.54	20.47	21.50
		MID	49	Q16	20.87	20.87	20.77	20.82	20.87	21.50
		HIGH	99	Q16	20.52	20.47	20.38	20.56	20.62	21.50
	50	LOW	0	Q16	20.42	20.44	20.49	20.44	20.46	21.50
		MID	24	Q16	20.51	20.49	20.49	20.47	20.50	21.50
		HIGH	50	Q16	20.48	20.44	20.45	20.47	20.50	21.50
	100	LOW	0	Q16	20.44	20.46	20.46	20.39	20.45	21.50
20	1	LOW	0	64QAM	20.60	20.58	20.46	20.67	20.36	21.50
		MID	49	64QAM	20.82	20.72	20.82	20.85	20.78	21.50
		HIGH	99	64QAM	20.44	20.43	20.33	20.65	20.67	21.50
	50	LOW	0	64QAM	20.01	19.80	20.07	20.04	20.05	21.00
		MID	24	64QAM	19.88	19.84	19.93	19.91	20.05	21.00
		HIGH	50	64QAM	19.85	20.09	19.99	20.10	20.14	21.00
	100	LOW	0	64QAM	20.01	19.92	19.99	19.80	19.81	21.00

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Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	0	QPSK	21.04	21.05	20.97	20.91	21.00	21.50
		MID	12	QPSK	21.18	21.18	21.12	21.05	21.14	21.50
		HIGH	24	QPSK	21.06	21.02	20.95	20.95	21.03	21.50
	12	LOW	0	QPSK	21.09	21.15	21.04	20.95	21.07	21.50
		MID	7	QPSK	21.20	21.24	21.13	21.09	21.19	21.50
		HIGH	13	QPSK	21.11	21.14	21.03	21.01	21.13	21.50
	25	LOW	0	QPSK	21.13	21.14	21.05	21.00	21.15	21.50
5	1	LOW	0	Q16	21.11	21.24	20.98	20.98	21.02	21.50
		MID	12	Q16	21.26	21.38	21.14	21.15	21.20	21.50
		HIGH	24	Q16	21.14	21.22	20.98	21.00	21.06	21.50
	12	LOW	0	Q16	21.08	21.24	21.07	20.94	21.13	21.50
		MID	7	Q16	21.18	21.31	21.14	21.06	21.25	21.50
		HIGH	13	Q16	21.12	21.20	21.08	20.96	21.16	21.50
	25	LOW	0	Q16	21.14	21.19	21.08	21.03	21.18	21.50
5	1	LOW	0	64QAM	20.96	21.21	20.91	20.94	20.89	21.50
		MID	12	64QAM	21.25	21.47	21.25	21.11	21.19	21.50
		HIGH	24	64QAM	21.11	21.09	20.98	20.95	20.95	21.50
	12	LOW	0	64QAM	20.53	20.73	20.67	20.39	20.54	21.00
		MID	7	64QAM	20.70	20.73	20.60	20.67	20.71	21.00
		HIGH	13	64QAM	20.53	20.83	20.44	20.39	20.60	21.00
	25	LOW	0	64QAM	20.50	20.60	20.58	20.50	20.62	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	0	QPSK	21.11	21.09	21.11	21.03	21.04	21.50
		MID	25	QPSK	21.42	21.41	21.38	21.34	21.42	21.50
		HIGH	49	QPSK	21.12	21.10	21.07	21.04	21.15	21.50
	25	LOW	0	QPSK	21.15	21.15	21.14	21.05	21.10	21.50
		MID	12	QPSK	21.18	21.16	21.14	21.07	21.13	21.50
		HIGH	25	QPSK	21.22	21.21	21.10	21.04	21.16	21.50
	50	LOW	0	QPSK	21.13	21.10	21.13	20.99	21.10	21.50
10	1	LOW	0	Q16	21.17	21.13	21.28	21.16	21.25	21.50
		MID	25	Q16	21.48	21.43	21.40	21.46	21.47	21.50
		HIGH	49	Q16	21.19	21.19	21.28	21.17	21.34	21.50
	25	LOW	0	Q16	21.13	21.15	21.14	21.07	21.16	21.50
		MID	12	Q16	21.18	21.14	21.11	21.07	21.20	21.50
		HIGH	25	Q16	21.22	21.18	21.11	21.07	21.22	21.50
	50	LOW	0	Q16	21.16	21.13	21.14	21.05	21.16	21.50
10	1	LOW	0	64QAM	21.09	21.20	21.33	21.07	21.14	21.50
		MID	25	64QAM	21.42	21.48	21.46	21.43	21.45	21.50
		HIGH	49	64QAM	21.24	21.31	21.29	21.21	21.34	21.50
	25	LOW	0	64QAM	20.64	20.60	20.73	20.48	20.80	21.00
		MID	12	64QAM	20.54	20.51	20.54	20.44	20.68	21.00
		HIGH	25	64QAM	20.84	20.53	20.55	20.58	20.87	21.00
	50	LOW	0	64QAM	20.69	20.67	20.52	20.70	20.60	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	0	QPSK	21.06	21.09	21.06	20.98	20.98	21.50
		MID	37	QPSK	21.15	21.18	21.13	21.06	21.09	21.50
		HIGH	74	QPSK	21.06	21.06	21.00	21.00	21.04	21.50
	36	LOW	0	QPSK	21.16	21.21	21.12	21.07	21.05	21.50
		MID	20	QPSK	21.22	21.22	21.15	21.18	21.08	21.50
		HIGH	39	QPSK	21.19	21.18	21.11	21.06	21.06	21.50
	75	LOW	0	QPSK	21.19	21.20	21.14	21.08	21.04	21.50
15	1	LOW	0	Q16	21.14	21.14	21.31	21.09	21.08	21.50
		MID	37	Q16	21.21	21.24	21.37	21.18	21.21	21.50
		HIGH	74	Q16	21.12	21.10	21.23	21.08	21.16	21.50
	36	LOW	0	Q16	21.11	21.15	21.10	21.06	21.06	21.50
		MID	20	Q16	21.15	21.16	21.07	21.09	21.09	21.50
		HIGH	39	Q16	21.17	21.14	21.07	21.09	21.09	21.50
	75	LOW	0	Q16	21.16	21.15	21.12	21.06	21.06	21.50
15	1	LOW	0	64QAM	21.15	21.23	21.30	21.17	21.20	21.50
		MID	37	64QAM	21.32	21.32	21.42	21.33	21.09	21.50
		HIGH	74	64QAM	21.11	21.09	21.26	21.05	21.03	21.50
	36	LOW	0	64QAM	20.71	20.67	20.49	20.60	20.55	21.00
		MID	20	64QAM	20.71	20.64	20.48	20.53	20.52	21.00
		HIGH	39	64QAM	20.57	20.77	20.51	20.56	20.58	21.00
	75	LOW	0	64QAM	20.52	20.52	20.72	20.69	20.48	21.00
Bandwidth (MHz)	RB Size	RB offest	RB offest	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	0	QPSK	20.39	20.40	20.40	20.43	20.37	21.50
		MID	49	QPSK	20.78	20.81	20.83	20.80	20.78	21.50
		HIGH	99	QPSK	20.39	20.38	20.32	20.42	20.48	21.50
	50	LOW	0	QPSK	20.42	20.48	20.50	20.40	20.42	21.50
		MID	24	QPSK	20.53	20.54	20.57	20.43	20.45	21.50
		HIGH	50	QPSK	20.53	20.48	20.46	20.40	20.44	21.50
	100	LOW	0	QPSK	20.48	20.46	20.45	20.37	20.43	21.50
20	1	LOW	0	Q16	20.47	20.47	20.43	20.54	20.47	21.50
		MID	49	Q16	20.87	20.87	20.77	20.82	20.87	21.50
		HIGH	99	Q16	20.52	20.47	20.38	20.56	20.62	21.50
	50	LOW	0	Q16	20.42	20.44	20.49	20.44	20.46	21.50
		MID	24	Q16	20.51	20.49	20.49	20.47	20.50	21.50
		HIGH	50	Q16	20.48	20.44	20.45	20.47	20.50	21.50
	100	LOW	0	Q16	20.44	20.46	20.46	20.39	20.45	21.50
20	1	LOW	0	64QAM	20.60	20.58	20.46	20.67	20.36	21.50
		MID	49	64QAM	20.82	20.72	20.82	20.85	20.78	21.50
		HIGH	99	64QAM	20.44	20.43	20.33	20.65	20.67	21.50
	50	LOW	0	64QAM	20.01	19.80	20.07	20.04	20.05	21.00
		MID	24	64QAM	19.88	19.84	19.93	19.91	20.05	21.00
		HIGH	50	64QAM	19.85	20.09	19.99	20.10	20.14	21.00
	100	LOW	0	64QAM	20.01	19.92	19.99	19.80	19.81	21.00

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Bandwidth (MHz)	RB Size	RB offest	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	QPSK	22.99	22.96	22.88	22.84	22.84	24.00
		MID	QPSK	23.09	23.02	**23.11**	22.98	22.97	24.00
		HIGH	QPSK	23.02	22.95	22.87	22.86	22.86	24.00
	12	LOW	QPSK	22.03	22.08	21.96	21.91	21.94	23.00
		MID	QPSK	22.14	22.15	22.07	22.01	22.03	23.00
		HIGH	QPSK	22.07	22.06	21.99	21.93	21.97	23.00
	25	LOW	QPSK	22.06	22.10	21.98	21.93	21.98	23.00
5	1	LOW	Q16	21.99	22.11	22.01	21.82	22.05	23.00
		MID	Q16	22.13	22.25	22.14	21.99	22.19	23.00
		HIGH	Q16	22.02	22.08	21.97	21.85	22.09	23.00
	12	LOW	Q16	21.00	21.05	20.96	20.86	21.06	22.00
		MID	Q16	21.11	21.11	21.00	20.97	21.16	22.00
		HIGH	Q16	21.04	21.04	20.91	20.91	21.08	22.00
	25	LOW	Q16	21.02	21.11	20.98	20.87	21.08	22.00
5	1	LOW	64QAM	20.89	21.25	21.13	20.84	21.00	22.00
		MID	64QAM	21.01	21.29	21.27	21.00	21.34	22.00
		HIGH	64QAM	21.07	21.00	20.91	21.00	20.97	22.00
	12	LOW	64QAM	19.86	19.95	20.06	19.75	20.17	21.00
		MID	64QAM	20.07	20.04	19.98	19.97	20.11	21.00
		HIGH	64QAM	20.03	20.03	19.94	19.79	19.96	21.00
	25	LOW	64QAM	19.88	20.23	20.02	19.95	20.15	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	QPSK	23.02	23.06	23.01	23.01	22.88	24.00
		MID	QPSK	**23.35**	**23.35**	23.27	23.24	23.21	24.00
		HIGH	QPSK	23.05	23.07	22.96	22.97	22.93	24.00
	25	LOW	QPSK	22.07	22.10	22.06	22.01	21.97	23.00
		MID	QPSK	22.08	22.08	22.00	21.96	21.97	23.00
		HIGH	QPSK	22.13	22.14	22.04	22.01	22.01	23.00
	50	LOW	QPSK	22.02	22.02	22.01	21.93	21.94	23.00
10	1	LOW	Q16	22.13	22.11	22.21	22.08	22.07	23.00
		MID	Q16	22.41	22.40	22.51	22.37	22.45	23.00
		HIGH	Q16	22.15	22.17	22.20	22.14	22.14	23.00
	25	LOW	Q16	21.01	21.05	21.05	20.95	21.03	22.00
		MID	Q16	21.06	21.06	21.02	20.93	21.07	22.00
		HIGH	Q16	21.09	21.07	21.02	20.97	21.08	22.00
	50	LOW	Q16	21.00	21.00	21.01	20.95	20.99	22.00
10	1	LOW	64QAM	21.08	21.00	21.07	21.02	21.15	22.00
		MID	64QAM	21.30	21.43	21.61	21.38	21.32	22.00
		HIGH	64QAM	21.15	21.29	21.35	21.09	21.04	22.00
	25	LOW	64QAM	19.90	19.99	20.05	19.98	20.06	21.00
		MID	64QAM	20.17	19.95	20.17	19.84	20.21	21.00
		HIGH	64QAM	20.20	20.12	20.08	19.87	20.00	21.00
	50	LOW	64QAM	19.94	19.88	20.16	19.98	19.88	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	QPSK	23.04	23.06	23.00	22.90	22.80	24.00
		MID	QPSK	23.06	**23.15**	23.03	22.96	22.97	24.00
		HIGH	QPSK	23.04	23.02	22.92	22.85	22.85	24.00
	36	LOW	QPSK	22.09	22.17	22.03	21.96	21.87	23.00
		MID	QPSK	22.16	22.16	22.02	21.99	21.88	23.00
		HIGH	QPSK	22.11	22.12	21.98	21.94	21.88	23.00
	75	LOW	QPSK	22.13	22.12	21.99	21.97	21.89	23.00
15	1	LOW	Q16	22.10	22.09	22.24	22.03	21.96	23.00
		MID	Q16	22.15	22.18	22.28	22.10	22.06	23.00
		HIGH	Q16	22.08	22.06	22.18	22.03	22.02	23.00
	36	LOW	Q16	20.99	21.06	20.98	20.97	20.90	22.00
		MID	Q16	21.07	21.06	20.97	20.97	20.95	22.00
		HIGH	Q16	21.04	21.04	20.94	20.95	20.94	22.00
	75	LOW	Q16	21.05	21.07	20.99	20.94	20.92	22.00
15	1	LOW	64QAM	20.98	21.04	21.25	21.02	20.84	22.00
		MID	64QAM	21.30	21.27	21.36	21.17	21.15	22.00
		HIGH	64QAM	20.93	20.95	21.04	20.95	21.03	22.00
	36	LOW	64QAM	19.98	20.05	20.12	20.04	19.88	21.00
		MID	64QAM	19.97	19.96	19.88	19.93	20.09	21.00
		HIGH	64QAM	20.03	19.98	20.08	19.81	20.01	21.00
	75	LOW	64QAM	20.09	20.02	20.01	19.95	19.81	21.00
Bandwidth (MHz)	RB Size	RB offest	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	QPSK	22.94	22.99	22.92	22.93	22.83	24.00
		MID	QPSK	23.30	23.30	**23.33**	23.24	23.17	24.00
		HIGH	QPSK	22.94	22.95	22.86	22.91	22.90	24.00
	50	LOW	QPSK	21.97	22.02	21.97	21.93	21.85	23.00
		MID	QPSK	22.03	22.08	22.09	21.94	21.90	23.00
		HIGH	QPSK	22.00	21.99	21.93	21.89	21.92	23.00
	100	LOW	QPSK	21.99	21.99	21.94	21.94	21.87	23.00
20	1	LOW	Q16	21.99	22.05	21.96	22.06	21.96	23.00
		MID	Q16	22.41	22.42	22.25	22.42	22.34	23.00
		HIGH	Q16	22.04	22.00	21.90	22.11	22.06	23.00
	50	LOW	Q16	20.88	20.94	20.96	20.93	20.90	22.00
		MID	Q16	21.00	21.00	20.96	20.97	20.96	22.00
		HIGH	Q16	20.97	20.95	20.91	20.93	20.97	22.00
	100	LOW	Q16	20.94	20.94	20.93	20.89	20.88	22.00
20	1	LOW	64QAM	21.14	21.00	20.85	21.09	20.98	22.00
		MID	64QAM	21.47	21.28	21.17	21.36	21.33	22.00
		HIGH	64QAM	21.14	21.12	20.82	21.26	21.04	22.00
	50	LOW	64QAM	19.96	19.81	19.99	20.06	19.76	21.00
		MID	64QAM	20.00	20.05	20.07	20.05	20.09	21.00
		HIGH	64QAM	20.10	20.03	20.01	20.03	19.97	21.00
	100	LOW	64QAM	19.85	19.81	19.78	19.90	20.00	21.00

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Bandwidth (MHz)	RB Size	RB offset	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	QPSK	22.73	22.70	22.80	22.86	23.22	24.20
		MID	QPSK	22.88	22.81	22.92	23.01	**23.36**	24.20
		HIGH	QPSK	22.78	22.68	22.80	22.88	23.30	24.20
	12	LOW	QPSK	21.80	21.81	21.89	21.97	22.34	23.20
		MID	QPSK	21.91	21.86	21.96	22.06	22.45	23.20
		HIGH	QPSK	21.82	21.80	21.89	21.97	22.38	23.20
	25	LOW	QPSK	21.83	21.80	21.91	21.97	22.39	23.20
5	1	LOW	Q16	22.03	22.10	22.04	22.14	22.52	23.20
		MID	Q16	22.17	22.24	22.19	22.31	22.63	23.20
		HIGH	Q16	22.05	22.09	22.04	22.21	22.52	23.20
	12	LOW	Q16	20.73	20.86	20.89	20.90	21.39	22.20
		MID	Q16	20.82	20.94	20.95	20.99	21.50	22.20
		HIGH	Q16	20.77	20.84	20.89	20.92	21.42	22.20
	25	LOW	Q16	20.80	20.80	20.89	20.97	21.43	22.20
5	1	LOW	64QAM	20.96	21.22	21.16	21.10	21.49	22.20
		MID	64QAM	21.23	21.26	21.19	21.39	21.68	22.20
		HIGH	64QAM	21.12	20.97	20.94	21.20	21.48	22.20
	12	LOW	64QAM	19.58	19.82	19.93	19.90	20.29	21.20
		MID	64QAM	19.77	19.90	19.81	20.10	20.48	21.20
		HIGH	64QAM	19.74	19.81	19.76	19.83	20.54	21.20
	25	LOW	64QAM	19.84	19.83	20.00	19.84	20.36	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	QPSK	22.80	22.78	22.93	22.96	23.22	24.20
		MID	QPSK	23.13	23.09	23.16	23.26	**23.52**	24.20
		HIGH	QPSK	22.86	22.81	22.95	22.99	23.29	24.20
	25	LOW	QPSK	21.85	21.83	21.95	22.03	22.27	23.20
		MID	QPSK	21.90	21.86	21.94	22.02	22.32	23.20
		HIGH	QPSK	21.95	21.85	21.95	22.03	22.31	23.20
	50	LOW	QPSK	21.83	21.77	21.90	21.94	22.26	23.20
10	1	LOW	Q16	22.12	22.02	22.38	22.31	22.57	23.20
		MID	Q16	22.39	22.30	22.63	22.63	22.73	23.20
		HIGH	Q16	22.14	22.09	22.36	22.37	22.70	23.20
	25	LOW	Q16	20.83	20.75	20.93	21.00	21.35	22.20
		MID	Q16	20.86	20.78	20.90	21.00	21.37	22.20
		HIGH	Q16	20.90	20.81	20.93	20.99	21.38	22.20
	50	LOW	Q16	20.81	20.75	20.92	20.95	21.29	22.20
10	1	LOW	64QAM	21.23	21.02	21.35	21.32	21.56	22.20
		MID	64QAM	21.38	21.16	21.73	21.52	21.60	22.20
		HIGH	64QAM	21.29	21.18	21.50	21.44	21.61	22.20
	25	LOW	64QAM	19.96	19.87	20.08	19.85	20.28	21.20
		MID	64QAM	19.92	19.81	19.93	20.00	20.44	21.20
		HIGH	64QAM	19.85	19.71	19.95	19.93	20.29	21.20
	50	LOW	64QAM	19.72	19.73	19.97	19.84	20.24	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	QPSK	22.79	22.78	22.85	22.85	23.14	24.20
		MID	QPSK	22.88	22.89	22.93	22.94	**23.28**	24.20
		HIGH	QPSK	22.79	22.77	22.85	22.88	23.24	24.20
	36	LOW	QPSK	21.88	21.89	21.92	21.92	22.19	23.20
		MID	QPSK	21.94	21.89	21.91	21.94	22.25	23.20
		HIGH	QPSK	21.91	21.90	21.88	21.95	22.23	23.20
	75	LOW	QPSK	21.90	21.87	21.89	21.98	22.22	23.20
15	1	LOW	Q16	22.05	22.00	22.31	22.25	22.46	23.20
		MID	Q16	22.12	22.10	22.39	22.34	22.57	23.20
		HIGH	Q16	22.07	22.03	22.31	22.26	22.54	23.20
	36	LOW	Q16	20.79	20.79	20.87	20.96	21.23	22.20
		MID	Q16	20.87	20.80	20.85	20.98	21.26	22.20
		HIGH	Q16	20.85	20.80	20.82	20.99	21.31	22.20
	75	LOW	Q16	20.85	20.81	20.89	20.96	21.24	22.20
15	1	LOW	64QAM	21.00	21.13	21.18	21.20	21.57	22.20
		MID	64QAM	20.97	21.24	21.49	21.24	21.67	22.20
		HIGH	64QAM	21.08	21.13	21.29	21.19	21.51	22.20
	36	LOW	64QAM	19.85	19.90	19.76	19.86	20.28	21.20
		MID	64QAM	19.99	19.82	19.89	20.03	20.17	21.20
		HIGH	64QAM	19.88	19.89	19.84	19.85	20.20	21.20
	75	LOW	64QAM	19.80	19.84	20.01	19.97	20.32	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	QPSK	22.69	22.67	22.76	22.86	23.15	24.20
		MID	QPSK	23.09	23.07	23.08	23.24	**23.54**	24.20
		HIGH	QPSK	22.77	22.71	22.75	22.92	23.23	24.20
	50	LOW	QPSK	21.72	21.75	21.86	21.92	22.16	23.20
		MID	QPSK	21.83	21.80	21.88	21.98	22.20	23.20
		HIGH	QPSK	21.82	21.76	21.84	21.96	22.19	23.20
	100	LOW	QPSK	21.77	21.73	21.86	21.94	22.20	23.20
20	1	LOW	Q16	22.00	21.92	22.03	22.28	22.45	23.20
		MID	Q16	22.40	22.31	22.37	22.66	22.63	23.20
		HIGH	Q16	22.07	21.97	22.02	22.33	22.58	23.20
	50	LOW	Q16	20.67	20.69	20.85	20.94	21.22	22.20
		MID	Q16	20.76	20.75	20.86	21.00	21.25	22.20
		HIGH	Q16	20.78	20.66	20.83	20.98	21.26	22.20
	100	LOW	Q16	20.73	20.67	20.80	20.92	21.20	22.20
20	1	LOW	64QAM	20.90	20.93	21.16	21.22	21.56	22.20
		MID	64QAM	21.53	21.19	21.52	21.72	21.65	22.20
		HIGH	64QAM	20.97	20.92	21.11	21.33	21.65	22.20
	50	LOW	64QAM	19.59	19.60	19.87	19.98	20.21	21.20
		MID	64QAM	19.63	19.80	19.93	20.08	20.14	21.20
		HIGH	64QAM	19.93	19.70	19.78	20.12	20.37	21.20
	100	LOW	64QAM	19.62	19.80	19.81	19.90	20.10	21.20

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Bandwidth (MHz)	RB Size	RB offset	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	QPSK	22.73	22.70	22.80	22.86	23.22	24.20
		MID	QPSK	22.88	22.81	22.92	23.01	**23.36**	24.20
		HIGH	QPSK	22.78	22.68	22.80	22.88	23.30	24.20
	12	LOW	QPSK	21.80	21.81	21.89	21.97	22.34	23.20
		MID	QPSK	21.91	21.86	21.96	22.06	22.45	23.20
		HIGH	QPSK	21.82	21.80	21.89	21.97	22.38	23.20
	25	LOW	QPSK	21.83	21.80	21.91	21.97	22.39	23.20
5	1	LOW	Q16	22.03	22.10	22.04	22.14	22.52	23.20
		MID	Q16	22.17	22.24	22.19	22.31	22.63	23.20
		HIGH	Q16	22.05	22.09	22.04	22.21	22.52	23.20
	12	LOW	Q16	20.73	20.86	20.89	20.90	21.39	22.20
		MID	Q16	20.82	20.94	20.95	20.99	21.50	22.20
		HIGH	Q16	20.77	20.84	20.89	20.92	21.42	22.20
	25	LOW	Q16	20.80	20.80	20.89	20.97	21.43	22.20
5	1	LOW	64QAM	20.96	21.22	21.16	21.10	21.49	22.20
		MID	64QAM	21.23	21.26	21.19	21.39	21.68	22.20
		HIGH	64QAM	21.12	20.97	20.94	21.20	21.48	22.20
	12	LOW	64QAM	19.58	19.82	19.93	19.90	20.29	21.20
		MID	64QAM	19.77	19.90	19.81	20.10	20.48	21.20
		HIGH	64QAM	19.74	19.81	19.76	19.83	20.54	21.20
	25	LOW	64QAM	19.84	19.83	20.00	19.84	20.36	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	QPSK	22.80	22.78	22.93	22.96	23.22	24.20
		MID	QPSK	23.13	23.09	23.16	23.26	**23.52**	24.20
		HIGH	QPSK	22.86	22.81	22.95	22.99	23.29	24.20
	25	LOW	QPSK	21.85	21.83	21.95	22.03	22.27	23.20
		MID	QPSK	21.90	21.86	21.94	22.02	22.32	23.20
		HIGH	QPSK	21.95	21.85	21.95	22.03	22.31	23.20
	50	LOW	QPSK	21.83	21.77	21.90	21.94	22.26	23.20
10	1	LOW	Q16	22.12	22.02	22.38	22.31	22.57	23.20
		MID	Q16	22.39	22.30	22.63	22.63	22.73	23.20
		HIGH	Q16	22.14	22.09	22.36	22.37	22.70	23.20
	25	LOW	Q16	20.83	20.75	20.93	21.00	21.35	22.20
		MID	Q16	20.86	20.78	20.90	21.00	21.37	22.20
		HIGH	Q16	20.90	20.81	20.93	20.99	21.38	22.20
	50	LOW	Q16	20.81	20.75	20.92	20.95	21.29	22.20
10	1	LOW	64QAM	21.23	21.02	21.35	21.32	21.56	22.20
		MID	64QAM	21.38	21.16	21.73	21.52	21.60	22.20
		HIGH	64QAM	21.29	21.18	21.50	21.44	21.61	22.20
	25	LOW	64QAM	19.96	19.87	20.08	19.85	20.28	21.20
		MID	64QAM	19.92	19.81	19.93	20.00	20.44	21.20
		HIGH	64QAM	19.85	19.71	19.95	19.93	20.29	21.20
	50	LOW	64QAM	19.72	19.73	19.97	19.84	20.24	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	QPSK	22.79	22.78	22.85	22.85	23.14	24.20
		MID	QPSK	22.88	22.89	22.93	22.94	**23.28**	24.20
		HIGH	QPSK	22.79	22.77	22.85	22.88	23.24	24.20
	36	LOW	QPSK	21.88	21.89	21.92	21.92	22.19	23.20
		MID	QPSK	21.94	21.89	21.91	21.94	22.25	23.20
		HIGH	QPSK	21.91	21.90	21.88	21.95	22.23	23.20
	75	LOW	QPSK	21.90	21.87	21.89	21.98	22.22	23.20
15	1	LOW	Q16	22.05	22.00	22.31	22.25	22.46	23.20
		MID	Q16	22.12	22.10	22.39	22.34	22.57	23.20
		HIGH	Q16	22.07	22.03	22.31	22.26	22.54	23.20
	36	LOW	Q16	20.79	20.79	20.87	20.96	21.23	22.20
		MID	Q16	20.87	20.80	20.85	20.98	21.26	22.20
		HIGH	Q16	20.85	20.80	20.82	20.99	21.31	22.20
	75	LOW	Q16	20.85	20.81	20.89	20.96	21.24	22.20
15	1	LOW	64QAM	21.00	21.13	21.18	21.20	21.57	22.20
		MID	64QAM	20.97	21.24	21.49	21.24	21.67	22.20
		HIGH	64QAM	21.08	21.13	21.29	21.19	21.51	22.20
	36	LOW	64QAM	19.85	19.90	19.76	19.86	20.28	21.20
		MID	64QAM	19.99	19.82	19.89	20.03	20.17	21.20
		HIGH	64QAM	19.88	19.89	19.84	19.85	20.20	21.20
	75	LOW	64QAM	19.80	19.84	20.01	19.97	20.32	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	QPSK	22.69	22.67	22.76	22.86	23.15	24.20
		MID	QPSK	23.09	23.07	23.08	23.24	**23.54**	24.20
		HIGH	QPSK	22.77	22.71	22.75	22.92	23.23	24.20
	50	LOW	QPSK	21.72	21.75	21.86	21.92	22.16	23.20
		MID	QPSK	21.83	21.80	21.88	21.98	22.20	23.20
		HIGH	QPSK	21.82	21.76	21.84	21.96	22.19	23.20
	100	LOW	QPSK	21.77	21.73	21.86	21.94	22.20	23.20
20	1	LOW	Q16	22.00	21.92	22.03	22.28	22.45	23.20
		MID	Q16	22.40	22.31	22.37	22.66	22.63	23.20
		HIGH	Q16	22.07	21.97	22.02	22.33	22.58	23.20
	50	LOW	Q16	20.67	20.69	20.85	20.94	21.22	22.20
		MID	Q16	20.76	20.75	20.86	21.00	21.25	22.20
		HIGH	Q16	20.78	20.66	20.83	20.98	21.26	22.20
	100	LOW	Q16	20.73	20.67	20.80	20.92	21.20	22.20
20	1	LOW	64QAM	20.90	20.93	21.16	21.22	21.56	22.20
		MID	64QAM	21.53	21.19	21.52	21.72	21.65	22.20
		HIGH	64QAM	20.97	20.92	21.11	21.33	21.65	22.20
	50	LOW	64QAM	19.59	19.60	19.87	19.98	20.21	21.20
		MID	64QAM	19.63	19.80	19.93	20.08	20.14	21.20
		HIGH	64QAM	19.93	19.70	19.78	20.12	20.37	21.20
	100	LOW	64QAM	19.62	19.80	19.81	19.90	20.10	21.20

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Bandwidth (MHz)	RB Size	RB offset	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	QPSK	22.73	22.70	22.80	22.86	23.22	24.20
		MID	QPSK	22.88	22.81	22.92	23.01	**23.36**	24.20
		HIGH	QPSK	22.78	22.68	22.80	22.88	23.30	24.20
	12	LOW	QPSK	21.80	21.81	21.89	21.97	22.34	23.20
		MID	QPSK	21.91	21.86	21.96	22.06	22.45	23.20
		HIGH	QPSK	21.82	21.80	21.89	21.97	22.38	23.20
	25	LOW	QPSK	21.83	21.80	21.91	21.97	22.39	23.20
5	1	LOW	Q16	22.03	22.10	22.04	22.14	22.52	23.20
		MID	Q16	22.17	22.24	22.19	22.31	22.63	23.20
		HIGH	Q16	22.05	22.09	22.04	22.21	22.52	23.20
	12	LOW	Q16	20.73	20.86	20.89	20.90	21.39	22.20
		MID	Q16	20.82	20.94	20.95	20.99	21.50	22.20
		HIGH	Q16	20.77	20.84	20.89	20.92	21.42	22.20
	25	LOW	Q16	20.80	20.80	20.89	20.97	21.43	22.20
5	1	LOW	64QAM	20.96	21.22	21.16	21.10	21.49	22.20
		MID	64QAM	21.23	21.26	21.19	21.39	21.68	22.20
		HIGH	64QAM	21.12	20.97	20.94	21.20	21.48	22.20
	12	LOW	64QAM	19.58	19.82	19.93	19.90	20.29	21.20
		MID	64QAM	19.77	19.90	19.81	20.10	20.48	21.20
		HIGH	64QAM	19.74	19.81	19.76	19.83	20.54	21.20
	25	LOW	64QAM	19.84	19.83	20.00	19.84	20.36	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	QPSK	22.80	22.78	22.93	22.96	23.22	24.20
		MID	QPSK	23.13	23.09	23.16	23.26	**23.52**	24.20
		HIGH	QPSK	22.86	22.81	22.95	22.99	23.29	24.20
	25	LOW	QPSK	21.85	21.83	21.95	22.03	22.27	23.20
		MID	QPSK	21.90	21.86	21.94	22.02	22.32	23.20
		HIGH	QPSK	21.95	21.85	21.95	22.03	22.31	23.20
	50	LOW	QPSK	21.83	21.77	21.90	21.94	22.26	23.20
10	1	LOW	Q16	22.12	22.02	22.38	22.31	22.57	23.20
		MID	Q16	22.39	22.30	22.63	22.63	22.73	23.20
		HIGH	Q16	22.14	22.09	22.36	22.37	22.70	23.20
	25	LOW	Q16	20.83	20.75	20.93	21.00	21.35	22.20
		MID	Q16	20.86	20.78	20.90	21.00	21.37	22.20
		HIGH	Q16	20.90	20.81	20.93	20.99	21.38	22.20
	50	LOW	Q16	20.81	20.75	20.92	20.95	21.29	22.20
10	1	LOW	64QAM	21.23	21.02	21.35	21.32	21.56	22.20
		MID	64QAM	21.38	21.16	21.73	21.52	21.60	22.20
		HIGH	64QAM	21.29	21.18	21.50	21.44	21.61	22.20
	25	LOW	64QAM	19.96	19.87	20.08	19.85	20.28	21.20
		MID	64QAM	19.92	19.81	19.93	20.00	20.44	21.20
		HIGH	64QAM	19.85	19.71	19.95	19.93	20.29	21.20
	50	LOW	64QAM	19.72	19.73	19.97	19.84	20.24	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	QPSK	22.79	22.78	22.85	22.85	23.14	24.20
		MID	QPSK	22.88	22.89	22.93	22.94	**23.28**	24.20
		HIGH	QPSK	22.79	22.77	22.85	22.88	23.24	24.20
	36	LOW	QPSK	21.88	21.89	21.92	21.92	22.19	23.20
		MID	QPSK	21.94	21.89	21.91	21.94	22.25	23.20
		HIGH	QPSK	21.91	21.90	21.88	21.95	22.23	23.20
	75	LOW	QPSK	21.90	21.87	21.89	21.98	22.22	23.20
15	1	LOW	Q16	22.05	22.00	22.31	22.25	22.46	23.20
		MID	Q16	22.12	22.10	22.39	22.34	22.57	23.20
		HIGH	Q16	22.07	22.03	22.31	22.26	22.54	23.20
	36	LOW	Q16	20.79	20.79	20.87	20.96	21.23	22.20
		MID	Q16	20.87	20.80	20.85	20.98	21.26	22.20
		HIGH	Q16	20.85	20.80	20.82	20.99	21.31	22.20
	75	LOW	Q16	20.85	20.81	20.89	20.96	21.24	22.20
15	1	LOW	64QAM	21.00	21.13	21.18	21.20	21.57	22.20
		MID	64QAM	20.97	21.24	21.49	21.24	21.67	22.20
		HIGH	64QAM	21.08	21.13	21.29	21.19	21.51	22.20
	36	LOW	64QAM	19.85	19.90	19.76	19.86	20.28	21.20
		MID	64QAM	19.99	19.82	19.89	20.03	20.17	21.20
		HIGH	64QAM	19.88	19.89	19.84	19.85	20.20	21.20
	75	LOW	64QAM	19.80	19.84	20.01	19.97	20.32	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	QPSK	22.69	22.67	22.76	22.86	23.15	24.20
		MID	QPSK	23.09	23.07	23.08	23.24	**23.54**	24.20
		HIGH	QPSK	22.77	22.71	22.75	22.92	23.23	24.20
	50	LOW	QPSK	21.72	21.75	21.86	21.92	22.16	23.20
		MID	QPSK	21.83	21.80	21.88	21.98	22.20	23.20
		HIGH	QPSK	21.82	21.76	21.84	21.96	22.19	23.20
	100	LOW	QPSK	21.77	21.73	21.86	21.94	22.20	23.20
20	1	LOW	Q16	22.00	21.92	22.03	22.28	22.45	23.20
		MID	Q16	22.40	22.31	22.37	22.66	22.63	23.20
		HIGH	Q16	22.07	21.97	22.02	22.33	22.58	23.20
	50	LOW	Q16	20.67	20.69	20.85	20.94	21.22	22.20
		MID	Q16	20.76	20.75	20.86	21.00	21.25	22.20
		HIGH	Q16	20.78	20.66	20.83	20.98	21.26	22.20
	100	LOW	Q16	20.73	20.67	20.80	20.92	21.20	22.20
20	1	LOW	64QAM	20.90	20.93	21.16	21.22	21.56	22.20
		MID	64QAM	21.53	21.19	21.52	21.72	21.65	22.20
		HIGH	64QAM	20.97	20.92	21.11	21.33	21.65	22.20
	50	LOW	64QAM	19.59	19.60	19.87	19.98	20.21	21.20
		MID	64QAM	19.63	19.80	19.93	20.08	20.14	21.20
		HIGH	64QAM	19.93	19.70	19.78	20.12	20.37	21.20
	100	LOW	64QAM	19.62	19.80	19.81	19.90	20.10	21.20

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Bandwidth (MHz)	RB Size	RB offset	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	QPSK	22.73	22.70	22.80	22.86	23.22	24.20
		MID	QPSK	22.88	22.81	22.92	23.01	**23.36**	24.20
		HIGH	QPSK	22.78	22.68	22.80	22.88	23.30	24.20
	12	LOW	QPSK	21.80	21.81	21.89	21.97	22.34	23.20
		MID	QPSK	21.91	21.86	21.96	22.06	22.45	23.20
		HIGH	QPSK	21.82	21.80	21.89	21.97	22.38	23.20
	25	LOW	QPSK	21.83	21.80	21.91	21.97	22.39	23.20
5	1	LOW	Q16	22.03	22.10	22.04	22.14	22.52	23.20
		MID	Q16	22.17	22.24	22.19	22.31	22.63	23.20
		HIGH	Q16	22.05	22.09	22.04	22.21	22.52	23.20
	12	LOW	Q16	20.73	20.86	20.89	20.90	21.39	22.20
		MID	Q16	20.82	20.94	20.95	20.99	21.50	22.20
		HIGH	Q16	20.77	20.84	20.89	20.92	21.42	22.20
	25	LOW	Q16	20.80	20.80	20.89	20.97	21.43	22.20
5	1	LOW	64QAM	20.96	21.22	21.16	21.10	21.49	22.20
		MID	64QAM	21.23	21.26	21.19	21.39	21.68	22.20
		HIGH	64QAM	21.12	20.97	20.94	21.20	21.48	22.20
	12	LOW	64QAM	19.58	19.82	19.93	19.90	20.29	21.20
		MID	64QAM	19.77	19.90	19.81	20.10	20.48	21.20
		HIGH	64QAM	19.74	19.81	19.76	19.83	20.54	21.20
	25	LOW	64QAM	19.84	19.83	20.00	19.84	20.36	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	QPSK	22.80	22.78	22.93	22.96	23.22	24.20
		MID	QPSK	23.13	23.09	23.16	23.26	**23.52**	24.20
		HIGH	QPSK	22.86	22.81	22.95	22.99	23.29	24.20
	25	LOW	QPSK	21.85	21.83	21.95	22.03	22.27	23.20
		MID	QPSK	21.90	21.86	21.94	22.02	22.32	23.20
		HIGH	QPSK	21.95	21.85	21.95	22.03	22.31	23.20
	50	LOW	QPSK	21.83	21.77	21.90	21.94	22.26	23.20
10	1	LOW	Q16	22.12	22.02	22.38	22.31	22.57	23.20
		MID	Q16	22.39	22.30	22.63	22.63	22.73	23.20
		HIGH	Q16	22.14	22.09	22.36	22.37	22.70	23.20
	25	LOW	Q16	20.83	20.75	20.93	21.00	21.35	22.20
		MID	Q16	20.86	20.78	20.90	21.00	21.37	22.20
		HIGH	Q16	20.90	20.81	20.93	20.99	21.38	22.20
	50	LOW	Q16	20.81	20.75	20.92	20.95	21.29	22.20
10	1	LOW	64QAM	21.23	21.02	21.35	21.32	21.56	22.20
		MID	64QAM	21.38	21.16	21.73	21.52	21.60	22.20
		HIGH	64QAM	21.29	21.18	21.50	21.44	21.61	22.20
	25	LOW	64QAM	19.96	19.87	20.08	19.85	20.28	21.20
		MID	64QAM	19.92	19.81	19.93	20.00	20.44	21.20
		HIGH	64QAM	19.85	19.71	19.95	19.93	20.29	21.20
	50	LOW	64QAM	19.72	19.73	19.97	19.84	20.24	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	QPSK	22.79	22.78	22.85	22.85	23.14	24.20
		MID	QPSK	22.88	22.89	22.93	22.94	**23.28**	24.20
		HIGH	QPSK	22.79	22.77	22.85	22.88	23.24	24.20
	36	LOW	QPSK	21.88	21.89	21.92	21.92	22.19	23.20
		MID	QPSK	21.94	21.89	21.91	21.94	22.25	23.20
		HIGH	QPSK	21.91	21.90	21.88	21.95	22.23	23.20
	75	LOW	QPSK	21.90	21.87	21.89	21.98	22.22	23.20
15	1	LOW	Q16	22.05	22.00	22.31	22.25	22.46	23.20
		MID	Q16	22.12	22.10	22.39	22.34	22.57	23.20
		HIGH	Q16	22.07	22.03	22.31	22.26	22.54	23.20
	36	LOW	Q16	20.79	20.79	20.87	20.96	21.23	22.20
		MID	Q16	20.87	20.80	20.85	20.98	21.26	22.20
		HIGH	Q16	20.85	20.80	20.82	20.99	21.31	22.20
	75	LOW	Q16	20.85	20.81	20.89	20.96	21.24	22.20
15	1	LOW	64QAM	21.00	21.13	21.18	21.20	21.57	22.20
		MID	64QAM	20.97	21.24	21.49	21.24	21.67	22.20
		HIGH	64QAM	21.08	21.13	21.29	21.19	21.51	22.20
	36	LOW	64QAM	19.85	19.90	19.76	19.86	20.28	21.20
		MID	64QAM	19.99	19.82	19.89	20.03	20.17	21.20
		HIGH	64QAM	19.88	19.89	19.84	19.85	20.20	21.20
	75	LOW	64QAM	19.80	19.84	20.01	19.97	20.32	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	QPSK	22.69	22.67	22.76	22.86	23.15	24.20
		MID	QPSK	23.09	23.07	23.08	23.24	**23.54**	24.20
		HIGH	QPSK	22.77	22.71	22.75	22.92	23.23	24.20
	50	LOW	QPSK	21.72	21.75	21.86	21.92	22.16	23.20
		MID	QPSK	21.83	21.80	21.88	21.98	22.20	23.20
		HIGH	QPSK	21.82	21.76	21.84	21.96	22.19	23.20
	100	LOW	QPSK	21.77	21.73	21.86	21.94	22.20	23.20
20	1	LOW	Q16	22.00	21.92	22.03	22.28	22.45	23.20
		MID	Q16	22.40	22.31	22.37	22.66	22.63	23.20
		HIGH	Q16	22.07	21.97	22.02	22.33	22.58	23.20
	50	LOW	Q16	20.67	20.69	20.85	20.94	21.22	22.20
		MID	Q16	20.76	20.75	20.86	21.00	21.25	22.20
		HIGH	Q16	20.78	20.66	20.83	20.98	21.26	22.20
	100	LOW	Q16	20.73	20.67	20.80	20.92	21.20	22.20
20	1	LOW	64QAM	20.90	20.93	21.16	21.22	21.56	22.20
		MID	64QAM	21.53	21.19	21.52	21.72	21.65	22.20
		HIGH	64QAM	20.97	20.92	21.11	21.33	21.65	22.20
	50	LOW	64QAM	19.59	19.60	19.87	19.98	20.21	21.20
		MID	64QAM	19.63	19.80	19.93	20.08	20.14	21.20
		HIGH	64QAM	19.93	19.70	19.78	20.12	20.37	21.20
	100	LOW	64QAM	19.62	19.80	19.81	19.90	20.10	21.20

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Bandwidth (MHz)	RB Size	RB offset	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	QPSK	22.73	22.70	22.80	22.86	23.22	24.20
		MID	QPSK	22.88	22.81	22.92	23.01	**23.36**	24.20
		HIGH	QPSK	22.78	22.68	22.80	22.88	23.30	24.20
	12	LOW	QPSK	21.80	21.81	21.89	21.97	22.34	23.20
		MID	QPSK	21.91	21.86	21.96	22.06	22.45	23.20
		HIGH	QPSK	21.82	21.80	21.89	21.97	22.38	23.20
	25	LOW	QPSK	21.83	21.80	21.91	21.97	22.39	23.20
5	1	LOW	Q16	22.03	22.10	22.04	22.14	22.52	23.20
		MID	Q16	22.17	22.24	22.19	22.31	22.63	23.20
		HIGH	Q16	22.05	22.09	22.04	22.21	22.52	23.20
	12	LOW	Q16	20.73	20.86	20.89	20.90	21.39	22.20
		MID	Q16	20.82	20.94	20.95	20.99	21.50	22.20
		HIGH	Q16	20.77	20.84	20.89	20.92	21.42	22.20
	25	LOW	Q16	20.80	20.80	20.89	20.97	21.43	22.20
5	1	LOW	64QAM	20.96	21.22	21.16	21.10	21.49	22.20
		MID	64QAM	21.23	21.26	21.19	21.39	21.68	22.20
		HIGH	64QAM	21.12	20.97	20.94	21.20	21.48	22.20
	12	LOW	64QAM	19.58	19.82	19.93	19.90	20.29	21.20
		MID	64QAM	19.77	19.90	19.81	20.10	20.48	21.20
		HIGH	64QAM	19.74	19.81	19.76	19.83	20.54	21.20
	25	LOW	64QAM	19.84	19.83	20.00	19.84	20.36	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	QPSK	22.80	22.78	22.93	22.96	23.22	24.20
		MID	QPSK	23.13	23.09	23.16	23.26	**23.52**	24.20
		HIGH	QPSK	22.86	22.81	22.95	22.99	23.29	24.20
	25	LOW	QPSK	21.85	21.83	21.95	22.03	22.27	23.20
		MID	QPSK	21.90	21.86	21.94	22.02	22.32	23.20
		HIGH	QPSK	21.95	21.85	21.95	22.03	22.31	23.20
	50	LOW	QPSK	21.83	21.77	21.90	21.94	22.26	23.20
10	1	LOW	Q16	22.12	22.02	22.38	22.31	22.57	23.20
		MID	Q16	22.39	22.30	22.63	22.63	22.73	23.20
		HIGH	Q16	22.14	22.09	22.36	22.37	22.70	23.20
	25	LOW	Q16	20.83	20.75	20.93	21.00	21.35	22.20
		MID	Q16	20.86	20.78	20.90	21.00	21.37	22.20
		HIGH	Q16	20.90	20.81	20.93	20.99	21.38	22.20
	50	LOW	Q16	20.81	20.75	20.92	20.95	21.29	22.20
10	1	LOW	64QAM	21.23	21.02	21.35	21.32	21.56	22.20
		MID	64QAM	21.38	21.16	21.73	21.52	21.60	22.20
		HIGH	64QAM	21.29	21.18	21.50	21.44	21.61	22.20
	25	LOW	64QAM	19.96	19.87	20.08	19.85	20.28	21.20
		MID	64QAM	19.92	19.81	19.93	20.00	20.44	21.20
		HIGH	64QAM	19.85	19.71	19.95	19.93	20.29	21.20
	50	LOW	64QAM	19.72	19.73	19.97	19.84	20.24	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	QPSK	22.79	22.78	22.85	22.85	23.14	24.20
		MID	QPSK	22.88	22.89	22.93	22.94	**23.28**	24.20
		HIGH	QPSK	22.79	22.77	22.85	22.88	23.24	24.20
	36	LOW	QPSK	21.88	21.89	21.92	21.92	22.19	23.20
		MID	QPSK	21.94	21.89	21.91	21.94	22.25	23.20
		HIGH	QPSK	21.91	21.90	21.88	21.95	22.23	23.20
	75	LOW	QPSK	21.90	21.87	21.89	21.98	22.22	23.20
15	1	LOW	Q16	22.05	22.00	22.31	22.25	22.46	23.20
		MID	Q16	22.12	22.10	22.39	22.34	22.57	23.20
		HIGH	Q16	22.07	22.03	22.31	22.26	22.54	23.20
	36	LOW	Q16	20.79	20.79	20.87	20.96	21.23	22.20
		MID	Q16	20.87	20.80	20.85	20.98	21.26	22.20
		HIGH	Q16	20.85	20.80	20.82	20.99	21.31	22.20
	75	LOW	Q16	20.85	20.81	20.89	20.96	21.24	22.20
15	1	LOW	64QAM	21.00	21.13	21.18	21.20	21.57	22.20
		MID	64QAM	20.97	21.24	21.49	21.24	21.67	22.20
		HIGH	64QAM	21.08	21.13	21.29	21.19	21.51	22.20
	36	LOW	64QAM	19.85	19.90	19.76	19.86	20.28	21.20
		MID	64QAM	19.99	19.82	19.89	20.03	20.17	21.20
		HIGH	64QAM	19.88	19.89	19.84	19.85	20.20	21.20
	75	LOW	64QAM	19.80	19.84	20.01	19.97	20.32	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	QPSK	22.69	22.67	22.76	22.86	23.15	24.20
		MID	QPSK	23.09	23.07	23.08	23.24	**23.54**	24.20
		HIGH	QPSK	22.77	22.71	22.75	22.92	23.23	24.20
	50	LOW	QPSK	21.72	21.75	21.86	21.92	22.16	23.20
		MID	QPSK	21.83	21.80	21.88	21.98	22.20	23.20
		HIGH	QPSK	21.82	21.76	21.84	21.96	22.19	23.20
	100	LOW	QPSK	21.77	21.73	21.86	21.94	22.20	23.20
20	1	LOW	Q16	22.00	21.92	22.03	22.28	22.45	23.20
		MID	Q16	22.40	22.31	22.37	22.66	22.63	23.20
		HIGH	Q16	22.07	21.97	22.02	22.33	22.58	23.20
	50	LOW	Q16	20.67	20.69	20.85	20.94	21.22	22.20
		MID	Q16	20.76	20.75	20.86	21.00	21.25	22.20
		HIGH	Q16	20.78	20.66	20.83	20.98	21.26	22.20
	100	LOW	Q16	20.73	20.67	20.80	20.92	21.20	22.20
20	1	LOW	64QAM	20.90	20.93	21.16	21.22	21.56	22.20
		MID	64QAM	21.53	21.19	21.52	21.72	21.65	22.20
		HIGH	64QAM	20.97	20.92	21.11	21.33	21.65	22.20
	50	LOW	64QAM	19.59	19.60	19.87	19.98	20.21	21.20
		MID	64QAM	19.63	19.80	19.93	20.08	20.14	21.20
		HIGH	64QAM	19.93	19.70	19.78	20.12	20.37	21.20
	100	LOW	64QAM	19.62	19.80	19.81	19.90	20.10	21.20

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Bandwidth (MHz)	RB Size	RB offset	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	QPSK	22.73	22.70	22.80	22.86	23.22	24.20
		MID	QPSK	22.88	22.81	22.92	23.01	**23.36**	24.20
		HIGH	QPSK	22.78	22.68	22.80	22.88	23.30	24.20
	12	LOW	QPSK	21.80	21.81	21.89	21.97	22.34	23.20
		MID	QPSK	21.91	21.86	21.96	22.06	22.45	23.20
		HIGH	QPSK	21.82	21.80	21.89	21.97	22.38	23.20
	25	LOW	QPSK	21.83	21.80	21.91	21.97	22.39	23.20
5	1	LOW	Q16	22.03	22.10	22.04	22.14	22.52	23.20
		MID	Q16	22.17	22.24	22.19	22.31	22.63	23.20
		HIGH	Q16	22.05	22.09	22.04	22.21	22.52	23.20
	12	LOW	Q16	20.73	20.86	20.89	20.90	21.39	22.20
		MID	Q16	20.82	20.94	20.95	20.99	21.50	22.20
		HIGH	Q16	20.77	20.84	20.89	20.92	21.42	22.20
	25	LOW	Q16	20.80	20.80	20.89	20.97	21.43	22.20
5	1	LOW	64QAM	20.96	21.22	21.16	21.10	21.49	22.20
		MID	64QAM	21.23	21.26	21.19	21.39	21.68	22.20
		HIGH	64QAM	21.12	20.97	20.94	21.20	21.48	22.20
	12	LOW	64QAM	19.58	19.82	19.93	19.90	20.29	21.20
		MID	64QAM	19.77	19.90	19.81	20.10	20.48	21.20
		HIGH	64QAM	19.74	19.81	19.76	19.83	20.54	21.20
	25	LOW	64QAM	19.84	19.83	20.00	19.84	20.36	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	QPSK	22.80	22.78	22.93	22.96	23.22	24.20
		MID	QPSK	23.13	23.09	23.16	23.26	**23.52**	24.20
		HIGH	QPSK	22.86	22.81	22.95	22.99	23.29	24.20
	25	LOW	QPSK	21.85	21.83	21.95	22.03	22.27	23.20
		MID	QPSK	21.90	21.86	21.94	22.02	22.32	23.20
		HIGH	QPSK	21.95	21.85	21.95	22.03	22.31	23.20
	50	LOW	QPSK	21.83	21.77	21.90	21.94	22.26	23.20
10	1	LOW	Q16	22.12	22.02	22.38	22.31	22.57	23.20
		MID	Q16	22.39	22.30	22.63	22.63	22.73	23.20
		HIGH	Q16	22.14	22.09	22.36	22.37	22.70	23.20
	25	LOW	Q16	20.83	20.75	20.93	21.00	21.35	22.20
		MID	Q16	20.86	20.78	20.90	21.00	21.37	22.20
		HIGH	Q16	20.90	20.81	20.93	20.99	21.38	22.20
	50	LOW	Q16	20.81	20.75	20.92	20.95	21.29	22.20
10	1	LOW	64QAM	21.23	21.02	21.35	21.32	21.56	22.20
		MID	64QAM	21.38	21.16	21.73	21.52	21.60	22.20
		HIGH	64QAM	21.29	21.18	21.50	21.44	21.61	22.20
	25	LOW	64QAM	19.96	19.87	20.08	19.85	20.28	21.20
		MID	64QAM	19.92	19.81	19.93	20.00	20.44	21.20
		HIGH	64QAM	19.85	19.71	19.95	19.93	20.29	21.20
	50	LOW	64QAM	19.72	19.73	19.97	19.84	20.24	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	QPSK	22.79	22.78	22.85	22.85	23.14	24.20
		MID	QPSK	22.88	22.89	22.93	22.94	**23.28**	24.20
		HIGH	QPSK	22.79	22.77	22.85	22.88	23.24	24.20
	36	LOW	QPSK	21.88	21.89	21.92	21.92	22.19	23.20
		MID	QPSK	21.94	21.89	21.91	21.94	22.25	23.20
		HIGH	QPSK	21.91	21.90	21.88	21.95	22.23	23.20
	75	LOW	QPSK	21.90	21.87	21.89	21.98	22.22	23.20
15	1	LOW	Q16	22.05	22.00	22.31	22.25	22.46	23.20
		MID	Q16	22.12	22.10	22.39	22.34	22.57	23.20
		HIGH	Q16	22.07	22.03	22.31	22.26	22.54	23.20
	36	LOW	Q16	20.79	20.79	20.87	20.96	21.23	22.20
		MID	Q16	20.87	20.80	20.85	20.98	21.26	22.20
		HIGH	Q16	20.85	20.80	20.82	20.99	21.31	22.20
	75	LOW	Q16	20.85	20.81	20.89	20.96	21.24	22.20
15	1	LOW	64QAM	21.00	21.13	21.18	21.20	21.57	22.20
		MID	64QAM	20.97	21.24	21.49	21.24	21.67	22.20
		HIGH	64QAM	21.08	21.13	21.29	21.19	21.51	22.20
	36	LOW	64QAM	19.85	19.90	19.76	19.86	20.28	21.20
		MID	64QAM	19.99	19.82	19.89	20.03	20.17	21.20
		HIGH	64QAM	19.88	19.89	19.84	19.85	20.20	21.20
	75	LOW	64QAM	19.80	19.84	20.01	19.97	20.32	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	QPSK	22.69	22.67	22.76	22.86	23.15	24.20
		MID	QPSK	23.09	23.07	23.08	23.24	**23.54**	24.20
		HIGH	QPSK	22.77	22.71	22.75	22.92	23.23	24.20
	50	LOW	QPSK	21.72	21.75	21.86	21.92	22.16	23.20
		MID	QPSK	21.83	21.80	21.88	21.98	22.20	23.20
		HIGH	QPSK	21.82	21.76	21.84	21.96	22.19	23.20
	100	LOW	QPSK	21.77	21.73	21.86	21.94	22.20	23.20
20	1	LOW	Q16	22.00	21.92	22.03	22.28	22.45	23.20
		MID	Q16	22.40	22.31	22.37	22.66	22.63	23.20
		HIGH	Q16	22.07	21.97	22.02	22.33	22.58	23.20
	50	LOW	Q16	20.67	20.69	20.85	20.94	21.22	22.20
		MID	Q16	20.76	20.75	20.86	21.00	21.25	22.20
		HIGH	Q16	20.78	20.66	20.83	20.98	21.26	22.20
	100	LOW	Q16	20.73	20.67	20.80	20.92	21.20	22.20
20	1	LOW	64QAM	20.90	20.93	21.16	21.22	21.56	22.20
		MID	64QAM	21.53	21.19	21.52	21.72	21.65	22.20
		HIGH	64QAM	20.97	20.92	21.11	21.33	21.65	22.20
	50	LOW	64QAM	19.59	19.60	19.87	19.98	20.21	21.20
		MID	64QAM	19.63	19.80	19.93	20.08	20.14	21.20
		HIGH	64QAM	19.93	19.70	19.78	20.12	20.37	21.20
	100	LOW	64QAM	19.62	19.80	19.81	19.90	20.10	21.20

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Bandwidth (MHz)	RB Size	RB offset	Modulation	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	1	LOW	QPSK	22.73	22.70	22.80	22.86	23.22	24.20
		MID	QPSK	22.88	22.81	22.92	23.01	**23.36**	24.20
		HIGH	QPSK	22.78	22.68	22.80	22.88	23.30	24.20
	12	LOW	QPSK	21.80	21.81	21.89	21.97	22.34	23.20
		MID	QPSK	21.91	21.86	21.96	22.06	22.45	23.20
		HIGH	QPSK	21.82	21.80	21.89	21.97	22.38	23.20
	25	LOW	QPSK	21.83	21.80	21.91	21.97	22.39	23.20
5	1	LOW	Q16	22.03	22.10	22.04	22.14	22.52	23.20
		MID	Q16	22.17	22.24	22.19	22.31	22.63	23.20
		HIGH	Q16	22.05	22.09	22.04	22.21	22.52	23.20
	12	LOW	Q16	20.73	20.86	20.89	20.90	21.39	22.20
		MID	Q16	20.82	20.94	20.95	20.99	21.50	22.20
		HIGH	Q16	20.77	20.84	20.89	20.92	21.42	22.20
	25	LOW	Q16	20.80	20.80	20.89	20.97	21.43	22.20
5	1	LOW	64QAM	20.96	21.22	21.16	21.10	21.49	22.20
		MID	64QAM	21.23	21.26	21.19	21.39	21.68	22.20
		HIGH	64QAM	21.12	20.97	20.94	21.20	21.48	22.20
	12	LOW	64QAM	19.58	19.82	19.93	19.90	20.29	21.20
		MID	64QAM	19.77	19.90	19.81	20.10	20.48	21.20
		HIGH	64QAM	19.74	19.81	19.76	19.83	20.54	21.20
	25	LOW	64QAM	19.84	19.83	20.00	19.84	20.36	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	1	LOW	QPSK	22.80	22.78	22.93	22.96	23.22	24.20
		MID	QPSK	23.13	23.09	23.16	23.26	**23.52**	24.20
		HIGH	QPSK	22.86	22.81	22.95	22.99	23.29	24.20
	25	LOW	QPSK	21.85	21.83	21.95	22.03	22.27	23.20
		MID	QPSK	21.90	21.86	21.94	22.02	22.32	23.20
		HIGH	QPSK	21.95	21.85	21.95	22.03	22.31	23.20
	50	LOW	QPSK	21.83	21.77	21.90	21.94	22.26	23.20
10	1	LOW	Q16	22.12	22.02	22.38	22.31	22.57	23.20
		MID	Q16	22.39	22.30	22.63	22.63	22.73	23.20
		HIGH	Q16	22.14	22.09	22.36	22.37	22.70	23.20
	25	LOW	Q16	20.83	20.75	20.93	21.00	21.35	22.20
		MID	Q16	20.86	20.78	20.90	21.00	21.37	22.20
		HIGH	Q16	20.90	20.81	20.93	20.99	21.38	22.20
	50	LOW	Q16	20.81	20.75	20.92	20.95	21.29	22.20
10	1	LOW	64QAM	21.23	21.02	21.35	21.32	21.56	22.20
		MID	64QAM	21.38	21.16	21.73	21.52	21.60	22.20
		HIGH	64QAM	21.29	21.18	21.50	21.44	21.61	22.20
	25	LOW	64QAM	19.96	19.87	20.08	19.85	20.28	21.20
		MID	64QAM	19.92	19.81	19.93	20.00	20.44	21.20
		HIGH	64QAM	19.85	19.71	19.95	19.93	20.29	21.20
	50	LOW	64QAM	19.72	19.73	19.97	19.84	20.24	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	1	LOW	QPSK	22.79	22.78	22.85	22.85	23.14	24.20
		MID	QPSK	22.88	22.89	22.93	22.94	**23.28**	24.20
		HIGH	QPSK	22.79	22.77	22.85	22.88	23.24	24.20
	36	LOW	QPSK	21.88	21.89	21.92	21.92	22.19	23.20
		MID	QPSK	21.94	21.89	21.91	21.94	22.25	23.20
		HIGH	QPSK	21.91	21.90	21.88	21.95	22.23	23.20
	75	LOW	QPSK	21.90	21.87	21.89	21.98	22.22	23.20
15	1	LOW	Q16	22.05	22.00	22.31	22.25	22.46	23.20
		MID	Q16	22.12	22.10	22.39	22.34	22.57	23.20
		HIGH	Q16	22.07	22.03	22.31	22.26	22.54	23.20
	36	LOW	Q16	20.79	20.79	20.87	20.96	21.23	22.20
		MID	Q16	20.87	20.80	20.85	20.98	21.26	22.20
		HIGH	Q16	20.85	20.80	20.82	20.99	21.31	22.20
	75	LOW	Q16	20.85	20.81	20.89	20.96	21.24	22.20
15	1	LOW	64QAM	21.00	21.13	21.18	21.20	21.57	22.20
		MID	64QAM	20.97	21.24	21.49	21.24	21.67	22.20
		HIGH	64QAM	21.08	21.13	21.29	21.19	21.51	22.20
	36	LOW	64QAM	19.85	19.90	19.76	19.86	20.28	21.20
		MID	64QAM	19.99	19.82	19.89	20.03	20.17	21.20
		HIGH	64QAM	19.88	19.89	19.84	19.85	20.20	21.20
	75	LOW	64QAM	19.80	19.84	20.01	19.97	20.32	21.20
Bandwidth (MHz)	RB Size	RB offset	Modulation	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	1	LOW	QPSK	22.69	22.67	22.76	22.86	23.15	24.20
		MID	QPSK	23.09	23.07	23.08	23.24	**23.54**	24.20
		HIGH	QPSK	22.77	22.71	22.75	22.92	23.23	24.20
	50	LOW	QPSK	21.72	21.75	21.86	21.92	22.16	23.20
		MID	QPSK	21.83	21.80	21.88	21.98	22.20	23.20
		HIGH	QPSK	21.82	21.76	21.84	21.96	22.19	23.20
	100	LOW	QPSK	21.77	21.73	21.86	21.94	22.20	23.20
20	1	LOW	Q16	22.00	21.92	22.03	22.28	22.45	23.20
		MID	Q16	22.40	22.31	22.37	22.66	22.63	23.20
		HIGH	Q16	22.07	21.97	22.02	22.33	22.58	23.20
	50	LOW	Q16	20.67	20.69	20.85	20.94	21.22	22.20
		MID	Q16	20.76	20.75	20.86	21.00	21.25	22.20
		HIGH	Q16	20.78	20.66	20.83	20.98	21.26	22.20
	100	LOW	Q16	20.73	20.67	20.80	20.92	21.20	22.20
20	1	LOW	64QAM	20.90	20.93	21.16	21.22	21.56	22.20
		MID	64QAM	21.53	21.19	21.52	21.72	21.65	22.20
		HIGH	64QAM	20.97	20.92	21.11	21.33	21.65	22.20
	50	LOW	64QAM	19.59	19.60	19.87	19.98	20.21	21.20
		MID	64QAM	19.63	19.80	19.93	20.08	20.14	21.20
		HIGH	64QAM	19.93	19.70	19.78	20.12	20.37	21.20
	100	LOW	64QAM	19.62	19.80	19.81	19.90	20.10	21.20

8.4 Intra-band uplink Output Power

Note:
1. This devices supports intra-band uplink CA of 7C/38C/41C
2. For intra-band uplink carrier aggregation power verification and measurement is selected highest PCC and SCC bandwidth combination to do and was according to 3GPP 36.521 01 sectino 6.2.2A.1 and section 6.2.2A.2 test procedure.
3. For intra-band uplink CA output power was measured high / middle / low channel combination, and for SAR verification is selected highest output power combination with each exposure condition in each frequency band using the highest SAR configuration test in standalone LTE mode.

Full power

LTE Uplink 2CA_Band 7-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	99	1	0	2	22.11	23.50
21100	20902	20	QPSK	1	0	1	99	2	22.24	23.50
21350	21152	20	QPSK	1	0	1	99	2	22.14	23.50

LTE Uplink 2CA_Band 7-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	99	1	0	2	21.77	23.50
21100	20902	20	QPSK	1	0	1	99	2	21.77	23.50
21350	21152	20	QPSK	1	0	1	99	2	21.95	23.50

Full Power

LTE Uplink 2CA_Band 38-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	99	1	0	2	22.67	24.00
37901	38099	20	QPSK	1	99	1	0	2	22.73	24.00
37952	38150	20	QPSK	1	99	1	0	2	22.66	24.00

LTE Uplink 2CA_Band 38-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	99	1	0	2	22.43	24.20
37901	38099	20	QPSK	1	99	1	0	2	22.41	24.20
37952	38150	20	QPSK	1	99	1	0	2	22.56	24.20

Full Power

LTE Uplink 2CA_Band 41-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	99	1	0	2	22.55	24.00
40185	40383	20	QPSK	1	99	1	0	2	22.65	24.00
40620	40818	20	QPSK	1	99	1	0	2	22.63	24.00
41055	40857	20	QPSK	1	0	1	99	2	22.66	24.00
41490	41292	20	QPSK	1	0	1	99	2	22.53	24.00

LTE Uplink 2CA_Band 41-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	99	1	0	2	22.39	24.20
40185	40383	20	QPSK	1	99	1	0	2	22.46	24.20
40620	40818	20	QPSK	1	99	1	0	2	22.53	24.20
41055	40857	20	QPSK	1	0	1	99	2	22.59	24.20
41490	41292	20	QPSK	1	0	1	99	2	22.66	24.20

DSI2

LTE Uplink 2CA_Band 7-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	99	1	0	2	16.42	18.00
21100	20902	20	QPSK	1	0	1	99	2	16.59	18.00
21350	21152	20	QPSK	1	0	1	99	2	16.56	18.00

LTE Uplink 2CA_Band 7-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	99	1	0	2	21.77	23.50
21100	20902	20	QPSK	1	0	1	99	2	21.77	23.50
21350	21152	20	QPSK	1	0	1	99	2	21.95	23.50

DSI2

LTE Uplink 2CA_Band 38-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	99	1	0	2	18.99	20.50
37901	38099	20	QPSK	1	99	1	0	2	19.15	20.50
37952	38150	20	QPSK	1	99	1	0	2	18.88	20.50

LTE Uplink 2CA_Band 38-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	99	1	0	2	22.43	24.20
37901	38099	20	QPSK	1	99	1	0	2	22.41	24.20
37952	38150	20	QPSK	1	99	1	0	2	22.56	24.20

DSI2

LTE Uplink 2CA_Band 41-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	99	1	0	2	19.14	20.50
40185	40383	20	QPSK	1	99	1	0	2	18.89	20.50
40620	40818	20	QPSK	1	99	1	0	2	19.09	20.50
41055	40857	20	QPSK	1	0	1	99	2	18.93	20.50
41490	41292	20	QPSK	1	0	1	99	2	19.07	20.50

LTE Uplink 2CA_Band 41-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	99	1	0	2	22.39	24.20
40185	40383	20	QPSK	1	99	1	0	2	22.46	24.20
40620	40818	20	QPSK	1	99	1	0	2	22.53	24.20
41055	40857	20	QPSK	1	0	1	99	2	22.59	24.20
41490	41292	20	QPSK	1	0	1	99	2	22.66	24.20

DSI3

LTE Uplink 2CA_Band 7-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	99	1	0	2	15.67	17.00
21100	20902	20	QPSK	1	0	1	99	2	15.53	17.00
21350	21152	20	QPSK	1	0	1	99	2	15.74	17.00

LTE Uplink 2CA_Band 7-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	99	1	0	2	21.77	23.50
21100	20902	20	QPSK	1	0	1	99	2	21.77	23.50
21350	21152	20	QPSK	1	0	1	99	2	21.95	23.50

DSI3

LTE Uplink 2CA_Band 38-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	99	1	0	2	18.68	19.50
37901	38099	20	QPSK	1	99	1	0	2	18.62	19.50
37952	38150	20	QPSK	1	99	1	0	2	18.57	19.50

LTE Uplink 2CA_Band 38-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	99	1	0	2	22.43	24.20
37901	38099	20	QPSK	1	99	1	0	2	22.41	24.20
37952	38150	20	QPSK	1	99	1	0	2	22.56	24.20

DSI3

LTE Uplink 2CA_Band 41-UAnt.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	99	1	0	2	17.94	19.50
40185	40383	20	QPSK	1	99	1	0	2	18.13	19.50
40620	40818	20	QPSK	1	99	1	0	2	17.92	19.50
41055	40857	20	QPSK	1	0	1	99	2	17.94	19.50
41490	41292	20	QPSK	1	0	1	99	2	18.05	19.50

LTE Uplink 2CA_Band 41-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	99	1	0	2	22.39	24.20
40185	40383	20	QPSK	1	99	1	0	2	22.46	24.20
40620	40818	20	QPSK	1	99	1	0	2	22.53	24.20
41055	40857	20	QPSK	1	0	1	99	2	22.59	24.20
41490	41292	20	QPSK	1	0	1	99	2	22.66	24.20

DSI4

LTE Uplink 2CA_Band 7-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	99	1	0	2	18.84	20.00
21100	20902	20	QPSK	1	0	1	99	2	18.84	20.00
21350	21152	20	QPSK	1	0	1	99	2	18.73	20.00

LTE Uplink 2CA_Band 7-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	99	1	0	2	20.47	22.00
21100	20902	20	QPSK	1	0	1	99	2	20.42	22.00
21350	21152	20	QPSK	1	0	1	99	2	20.61	22.00

DSI4

LTE Uplink 2CA_Band 38-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	99	1	0	2	21.23	22.50
37901	38099	20	QPSK	1	99	1	0	2	21.21	22.50
37952	38150	20	QPSK	1	99	1	0	2	21.28	22.50

LTE Uplink 2CA_Band 38-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	99	1	0	2	22.43	24.20
37901	38099	20	QPSK	1	99	1	0	2	22.41	24.20
37952	38150	20	QPSK	1	99	1	0	2	22.56	24.20

DSI4

LTE Uplink 2CA_Band 41-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	99	1	0	2	21.12	22.50
40185	40383	20	QPSK	1	99	1	0	2	21.07	22.50
40620	40818	20	QPSK	1	99	1	0	2	21.21	22.50
41055	40857	20	QPSK	1	0	1	99	2	20.98	22.50
41490	41292	20	QPSK	1	0	1	99	2	21.11	22.50

LTE Uplink 2CA_Band 41-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	99	1	0	2	22.39	24.20
40185	40383	20	QPSK	1	99	1	0	2	22.46	24.20
40620	40818	20	QPSK	1	99	1	0	2	22.53	24.20
41055	40857	20	QPSK	1	0	1	99	2	22.59	24.20
41490	41292	20	QPSK	1	0	1	99	2	22.66	24.20

DSI5&6

LTE Uplink 2CA_Band 7-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	99	1	0	2	17.25	18.50
21100	20902	20	QPSK	1	0	1	99	2	17.35	18.50
21350	21152	20	QPSK	1	0	1	99	2	17.27	18.50

LTE Uplink 2CA_Band 7-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	99	1	0	2	20.47	22.00
21100	20902	20	QPSK	1	0	1	99	2	20.42	22.00
21350	21152	20	QPSK	1	0	1	99	2	20.61	22.00

DSI5&6

LTE Uplink 2CA_Band 38-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	99	1	0	2	20.09	21.50
37901	38099	20	QPSK	1	99	1	0	2	19.88	21.50
37952	38150	20	QPSK	1	99	1	0	2	20.08	21.50

LTE Uplink 2CA_Band 38-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	99	1	0	2	22.43	24.20
37901	38099	20	QPSK	1	99	1	0	2	22.41	24.20
37952	38150	20	QPSK	1	99	1	0	2	22.56	24.20

DSI5&6

LTE Uplink 2CA_Band 41-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	99	1	0	2	20.13	21.50
40185	40383	20	QPSK	1	99	1	0	2	19.95	21.50
40620	40818	20	QPSK	1	99	1	0	2	19.97	21.50
41055	40857	20	QPSK	1	0	1	99	2	20.16	21.50
41490	41292	20	QPSK	1	0	1	99	2	20.00	21.50

LTE Uplink 2CA_Band 41-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	99	1	0	2	22.39	24.20
40185	40383	20	QPSK	1	99	1	0	2	22.46	24.20
40620	40818	20	QPSK	1	99	1	0	2	22.53	24.20
41055	40857	20	QPSK	1	0	1	99	2	22.59	24.20
41490	41292	20	QPSK	1	0	1	99	2	22.66	24.20

DSI7

LTE Uplink 2CA_Band 7-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	99	1	0	2	22.11	23.50
21100	20902	20	QPSK	1	0	1	99	2	22.24	23.50
21350	21152	20	QPSK	1	0	1	99	2	22.14	23.50

LTE Uplink 2CA_Band 7-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	99	1	0	2	20.47	22.00
21100	20902	20	QPSK	1	0	1	99	2	20.42	22.00
21350	21152	20	QPSK	1	0	1	99	2	20.61	22.00

DSI7

LTE Uplink 2CA_Band 38-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	99	1	0	2	22.67	24.00
37901	38099	20	QPSK	1	99	1	0	2	22.73	24.00
37952	38150	20	QPSK	1	99	1	0	2	22.66	24.00

LTE Uplink 2CA_Band 38-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	99	1	0	2	22.43	24.20
37901	38099	20	QPSK	1	99	1	0	2	22.41	24.20
37952	38150	20	QPSK	1	99	1	0	2	22.56	24.20

DSI7

LTE Uplink 2CA_Band 41-Ant.13

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	99	1	0	2	22.55	24.00
40185	40383	20	QPSK	1	99	1	0	2	22.65	24.00
40620	40818	20	QPSK	1	99	1	0	2	22.63	24.00
41055	40857	20	QPSK	1	0	1	99	2	22.66	24.00
41490	41292	20	QPSK	1	0	1	99	2	22.53	24.00

LTE Uplink 2CA_Band 41-Ant.31

Combination 20MHz+20MHz(100RB+100RB)

PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Max. tune-up power (dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	99	1	0	2	22.39	24.20
40185	40383	20	QPSK	1	99	1	0	2	22.46	24.20
40620	40818	20	QPSK	1	99	1	0	2	22.53	24.20
41055	40857	20	QPSK	1	0	1	99	2	22.59	24.20
41490	41292	20	QPSK	1	0	1	99	2	22.66	24.20