

FCC SAR Test Report

Client Name : Lithiutech Canada Inc

**Client Address : 614-9320 Saint Laurent Montreal Quebec
Canada**

Product Name : SMARTPHONE

Report Date : Jan. 09, 2023

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Lithiutech Canada Inc
Manufacturer : Lithiutech Canada Inc
Product Name : SMARTPHONE
Model No. : V22S
Trade Mark : Vortex
Rating(s) : Input: DC 5V, 1A(with DC 3.8V, 3000mAh battery inside)

**Test Standard(s) : IEC 62209-2:2010; IEEE 1528:2013; FCC 47 CFR Part 2 (2.1093:2013);
ANSI/IEEE C95.1:2005; Reference FCC KDB 447498; KDB 248227;
KDB 616217; KDB 941225; KDB 865664**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the IEEE 1528-2013, FCC 47 CFR Part 2 (2.1093), ANSI/IEEE C95.1:2005 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Nov. 23, 2022

Date of Test

Dec. 01 - 16, 2022

Prepared By

Ella Liang
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Approved & Authorized Signer

Kingkong Jin
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Version

Version No.	Date	Description
R00	Jan. 09, 2023	Original



1. Statement of Compliance

<Highest SAR Summary>

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013. The maximum results of Specific Absorption Rate (SAR) found during testing are as follows.

<Highest SAR Summary>

FrequencyBand	Highest Reported 1g-SAR(W/Kg)		SAR Test Limit (W/Kg)
	Head	Body-worn and Hotspot(10mm)	
GSM 850	0.488	0.504	1.6
GSM1900	0.359	0.597	
WCDMA Band II	0.286	0.421	
WCDMA Band IV	0.358	0.608	
WCDMA Band V	0.398	0.568	
LTE Band 7	0.572	0.517	
LTE Band 12	0.325	0.614	
LTE Band 13	0.296	0.543	
LTE Band 25	0.624	0.567	
LTE Band 26	0.390	0.623	
LTE Band 41	0.297	0.532	
LTE Band 66	0.464	0.580	
LTE Band 71	0.509	0.454	
WLAN2.4G	0.350	0.331	
WLAN5.2G	0.300	0.211	
WLAN5.3G	0.201	0.146	
WLAN5.8G	0.259	0.221	
Simultaneous Reported SAR (W/Kg)	0.996	0.939	
Test Result	PASS		

Note: FDD LTE band 12 and band 17 works at the overlap frequency band, the maximum power of band 12 is 24.04dBm which higher than band 17(23.94dBm), so we only select band 12 for test. The same method for FDD LTE band 2 and Band 25, only band 25(the maximum power is 23.23dBm) is selected for



test. For FDD LTE band 5 and Band 26, only band 26(the maximum power is 23.94dBm) is selected for test. For FDD LTE band 4 and band 66, only band 66(the maximum power is 22.72dBm) is selected for test

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013



2. General Information

2.1. Client Information

Applicant	:	Lithiutech Canada Inc
Address	:	614-9320 Saint Laurent Montreal Quebec Canada
Manufacturer	:	Lithiutech Canada Inc
Address	:	614-9320 Saint Laurent Montreal Quebec Canada
Factory	:	Lithiutech Canada Inc
Address	:	614-9320 Saint Laurent Montreal Quebec Canada

2.2. Description of Equipment Under Test (EUT)

Product Name	:	SMARTPHONE
Model No.	:	V22S
Trade Mark	:	Vortex
Test Power Supply	:	DC 3.8V
Test Sample No.	:	1-2-1(Engineering Sample)
Tx Frequency	:	BT BDR+EDR/BT BLE: 2402-2480MHz 2.4G WIFI: 2412-2462MHz 5.2G WIFI: 5180MHz~5240MHz 5.3G WIFI: 5260MHz~5320MHz 5.8G WIFI: 5745MHz~5825MHz GSM 850: TX: 824.2~848.8 MHz PCS 1900: TX: 1850.2~1909.8 MHz UMTS Band 2: TX: 1852.4~1907.6 MHz UMTS Band 4: TX: 1712.4 ~ 1752.6 MHz UMTS Band 5: TX: 826.4 ~ 846.6 MHz: LTE-FDD Band 2: TX: 1850.7 ~ 1909.3 MHz LTE-FDD Band 4: TX: 1710.7 ~ 1754.3 MHz LTE-FDD Band 5: TX: 824.7 ~ 848.3 MHz LTE-FDD Band 7: TX: 2502.5 ~ 2567.5 MHz LTE-FDD Band 12: TX: 699.7 ~ 715.3 MHz LTE-FDD Band 13: TX: 779.5 ~ 784.5 MHz LTE-FDD Band 17: TX: 706.5 ~ 713.5 MHz LTE-FDD Band 25: TX: 1850.7 ~ 1914.3 MHz



		LTE-FDD Band 26: TX: 814.7 ~ 848.3 MHz LTE-TDD Band 41: TX: 2537.5 ~ 2652.5 MHz LTE-FDD Band 66: TX: 1710.7 ~ 1779.3 MHz LTE-FDD Band 71: TX: 670.5 ~ 725.5 MHz
Type of Modulation	:	GSM:GMSK, 8PSK WCDMA:QPSK,16QAM LTE:QPSK,16QAM BT: GFSK, $\pi/4$ -DQPSK, 8DPSK 2.4G WIFI:BPSK,QPSK,16QAM,64QAM 5G WIFI:OFDM with BPSK/QPSK/16QAM/64QAM/256QAM
Category of device	:	Portable device
Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.		



2.3. Device Category and SAR Limits

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.

2.4. Applied Standard

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093:2013)
- ANSI/IEEE C95.1:2005
- IEEE Std 1528:2013
- KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- KDB 865664 D02 RF Exposure Reporting v01r02
- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- KDB 941225 D01 3G SAR Procedures v03r01
- KDB 941225 D05 SAR for LTE Devices v02r05
- KDB 941225 D06 Hotspot SAR v02r01
- KDB 648474 D04 Handset SAR v01r03

2.5. Environment of Test Site

Items	Required	Actual
Temperature (°C)	18-25	22~23
Humidity (%RH)	30-70	55~65

2.6. Test Configuration

The device was controlled by using a base station emulator. Communication between the device and the emulator was established by air link. The distance between the EUT and the antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during all tests. For WLAN SAR testing, WLAN engineering testing software installed on the EUT can provide continuous transmitting RF signal.



3. Specific Absorption Rate (SAR)

3.1. Introduction

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.

3.2. SAR Definition

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:

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

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

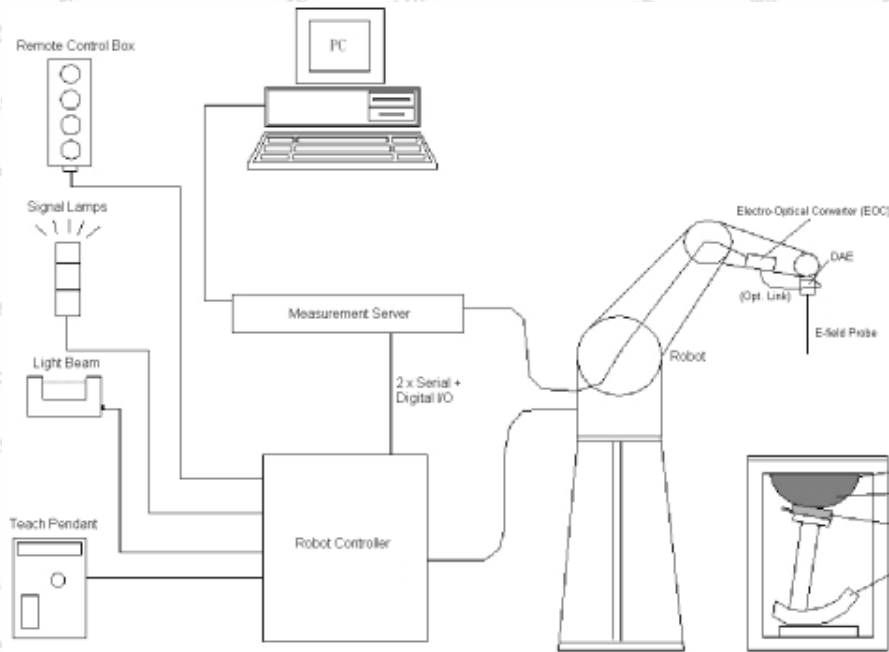
$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.



4. SAR Measurement System



DASY System Configurations

The DASYsystem for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (EOC) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASY software
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

components are described in details in the following sub-sections.



4.1. E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG).The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

➤ E-Field Probe Specification

<EX3DV4 Probe>

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to 100 W/kg; Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

Photo of EX3DV4

➤ E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (NormX, NormY, and NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data can be referred to appendix C of this report.

4.2. Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and 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.

The input impedance of the DAE is 200M Ω ; the inputs are symmetrical and floating. Common mode rejection is above 80dB.



**Photo of DAE**

4.3. Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX60XL) type from Stäubli SA (France). For the 6-axis controllersystem, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäublirobot series have many features that are important for our application:

- High precision (repeatability ± 0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

**Photo of DASY5**

4.4. Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chipdisk (DASY5: 128 MB), RAM (DASY5: 128 MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.



Photo of Server for DASY5

4.5. Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

Photo of SAM Phantom

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. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.



<ELI4 Phantom>

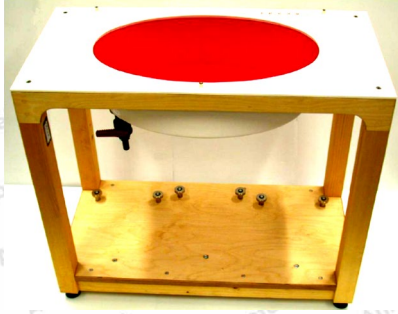
Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

Photo of ELI4 Phantom

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

4.6. Device Holder

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of $\pm 0.5\text{mm}$ would produce a SAR uncertainty of $\pm 20\%$. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.

The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



**Device Holder**

4.7. Data Storage and Evaluation

➤ Data Storage

The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The post-processing software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of erroneous parameter settings. For example, if a measurement has been performed with an incorrect crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type (e.g., [V/m], [A/m], [W/kg]). Some of these units are not available in certain situations or give meaningless results, e.g., a SAR-output in a non-lossy media, will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

➤ Data Evaluation

The DASY post-processing software (SEMCAD) automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The



parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Norm _i , a _{i0} , a _{i1} , a _{i2}
	- Conversion factor	ConvF _i
	- Diode compression point	dcp _i
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multi-meter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

with V_i = compensated signal of channel i, (i = x, y, z)

U_i = input signal of channel i, (i = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp_i = diode compression point (DASY parameter)

From the compensated input signals, the primary field data for each channel can be evaluated:

$$\text{E-field Probes: } E_i = \sqrt{\frac{V_i}{\text{Norm}_i \cdot \text{ConvF}}}$$

$$\text{H-field Probes: } H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

with V_i = compensated signal of channel i, (i = x, y, z)

Norm_i = sensor sensitivity of channel i, (i = x, y, z), $\mu\text{V}/(\text{V/m})^2$ for E-field Probes

ConvF = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E_i = electric field strength of channel i in V/m



H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{\text{tot}} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$\text{SAR} = E_{\text{tot}}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

with SAR = local specific absorption rate in W/kg

E_{tot} = total field strength in V/m

σ = conductivity in [mho/m] or [Siemens/m]

ρ = equivalent tissue density in g/cm³

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.



5. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1163	Jun. 08,2021	Jun. 07,2024
SPEAG	835MHz System Validation Kit	D835V2	4d154	Jun. 16,2021	Jun. 15,2024
SPEAG	1750MHz System Validation Kit	D1750V2	1021	Jul. 01,2021	Jun. 30,2024
SPEAG	1900MHz System Validation Kit	D1900V2	5d175	Jun. 15,2022	Jun. 14,2025
SPEAG	2450MHz System Validation Kit	D2450V2	910	Jun. 15,2021	Jun. 14,2024
SPEAG	2600MHz System Validation Kit	D2600V2	1058	Jun. 19,2021	Jun. 18,2024
SPEAG	5GHz System Validation Kit	D5GHzV2	1160	Oct. 02, 2021	Oct. 01, 2024
Rohde & Schwarz	UNIVERSAL RADIO COMMUNICATION TESTER	CMW500	1201.0002K50-1 04209-JC	Nov.10, 2021	Nov.09, 2022
SPEAG	Data Acquisition Electronics	DAE4	387	Sept.06,2022	Sept.05,2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7396	May 06,2022	May 05,2023
Agilent	ENA Series Network Analyzer	E5071C	MY46317418	Oct.26, 2022	Oct.25, 2023
SPEAG	DAK	DAK-3.5	1226	NCR	NCR
SPEAG	SAM Twin Phantom	QD000P40CD	1802	NCR	NCR
SPEAG	ELI Phantom	QDOVA004A A	2058	NCR	NCR
AR	Amplifier	ZHL-42W	QA1118004	NCR	NCR
Agilent	Power Meter	N1914A	MY50001102	Oct.26, 2022	Oct.25, 2023
Agilent	Power Sensor	N8481H	MY51240001	Oct.26, 2022	Oct.25, 2023
R&S	Spectrum Analyzer	N9020A	MY51170037	Oct.26, 2022	Oct.25, 2023
Agilent	Signal Generation	N5182A	MY48180656	Oct.26, 2022	Oct.25, 2023
Worken	Directional Coupler	0110A05601O -10	COM5BNW1A2	Oct.26, 2022	Oct.25, 2023

Note:

1. The calibration certificate of DASY can be referred to appendix C of this report.
2. The dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The Insertion Loss calibration of Dual Directional Coupler and Attenuator were characterized via the network analyzer and compensated during system check.
4. The dielectric probe kit was calibrated via the network analyzer, with the specified procedure (calibrated in pure water) and calibration kit (standard) short circuit, before the dielectric measurement. The specific procedure and



calibration kit are provided by Agilent.

5. In system check we need to monitor the level on the power meter, and adjust the power amplifier level to have precise power level to the dipole; the measured SAR will be normalized to 1W input power according to the ratio of 1W to the input power to the dipole. For system check, the calibration of the power amplifier is deemed not critically required for correct measurement; the power meter is critical and we do have calibration for it.

6. Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. 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, which is shown in Fig. 6.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown as followed:



Photo of Liquid Height for Head SAR



Photo of Liquid Height for Body SAR



The following table gives the recipes for tissue simulating liquid.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (ϵ_r)
For Head								
750	40.9	57.1	0.2	1.5	0.3	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
1750	55.2	0	0	0.3	0	44.5	1.37	40.1
1800,1900,2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0
5200	65.5	0	17.2	0	17.3	0	4.66	36.0
5800	65.4	0	17.3	0	17.3	0	5.27	35.3
For Body								
750	50.8	48.2	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
1750	70.2	0	0	0.4	0	29.4	1.49	53.4
1800,1900,2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0	0	31.4	1.95	52.7
2600	65.5	0	0	0	0	31.5	2.16	52.5
5200	78.6	0	10.7	0	10.7	0	5.27	49.0
5800	78.5	0	10.8	0	10.7	0	6.00	48.2



The following table shows the measuring results for simulating liquid.

Measured Frequency y (MHz)	Target Tissue		Measured Tissue				Liquid Temp.	Test Data
	ϵ_r	σ	ϵ_r	Dev. (%)	σ	Dev. (%)		
750	41.9	0.89	41.69	-0.50	0.93	4.49	22.8	12/01/2022
835	41.5	0.90	41.58	0.19	0.94	4.44	22.6	12/02/2022
1750	40.1	1.37	40.21	0.27	1.42	3.65	22.6	12/07/2022
1900	40.0	1.40	40.19	0.47	1.44	2.86	22.7	12/09/2022
2450	39.2	1.80	39.07	-0.33	1.82	1.11	22.6	12/12/2022
2600	39.0	1.96	39.31	0.79	2.05	4.59	22.8	12/13/2022
5200	36.0	4.66	36.27	0.75	4.77	2.36	22.5	12/14/2022
5300	35.6	4.96	35.55	-0.14	4.87	-1.81	22.3	12/16/2022
5800	35.3	5.27	35.69	1.10	5.38	2.09	22.7	12/15/2022



7. System Verification Procedures

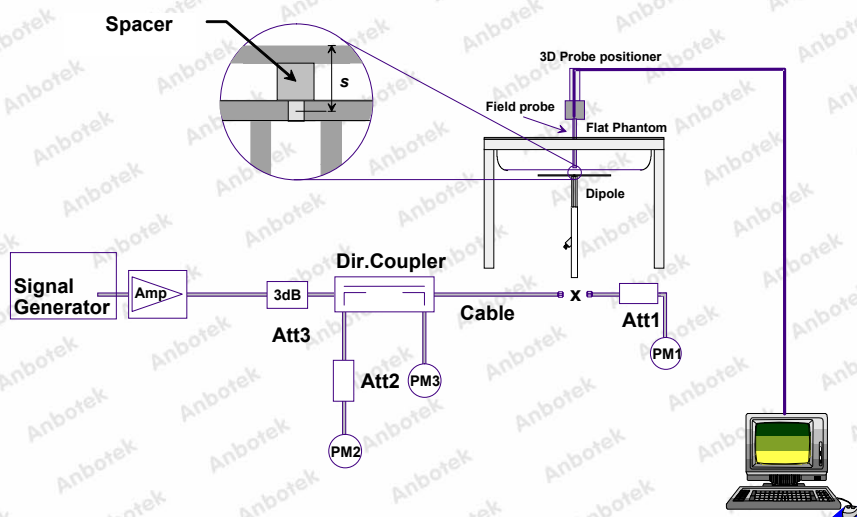
Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

➤ Purpose of System Performance 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.

➤ System 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:



System Setup for System Evaluation



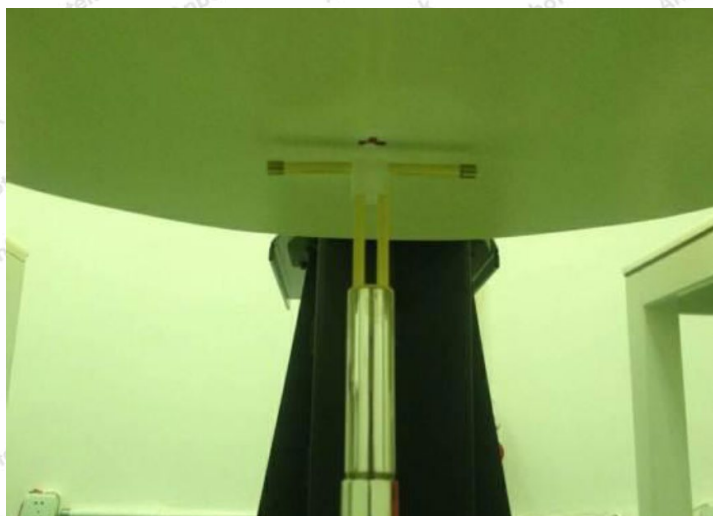


Photo of Dipole Setup

➤ Validation Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10%. The table below shows the target SAR and measured SAR after normalized to 1W input power. It indicates that the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Date	Frequency (MHz)	Power fed onto reference dipole (mW)	Targeted SAR (W/kg)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Deviation (%)
12/01/2022	750	250	8.53	2.18	8.64	2.23
12/02/2022	835	250	9.57	2.33	9.44	-2.61
12/07/2022	1750	250	36.7	9.69	38.68	5.61
12/09/2022	1900	250	40.1	10.18	40.64	1.55
12/12/2022	2450	250	51.8	12.95	51.64	0.00
12/13/2022	2600	250	55.3	13.91	55.68	0.61
12/14/2022	5200	100	77.8	7.97	79.7	2.44
12/16/2022	5300	100	78.4	7.64	76.4	-2.55
12/15/2022	5800	100	78.3	7.92	79.2	1.15

Target and Measurement SAR after Normalized



8. EUT Testing Position

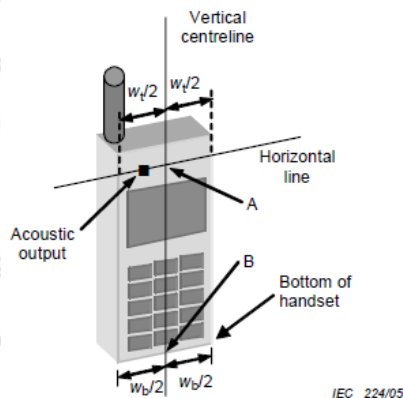
8.1. Head Position

The wireless device define two imaginary lines on the handset, the vertical centreline and the horizontal line, for the handset in vertical orientation as shown in Figures 5a and 5b.

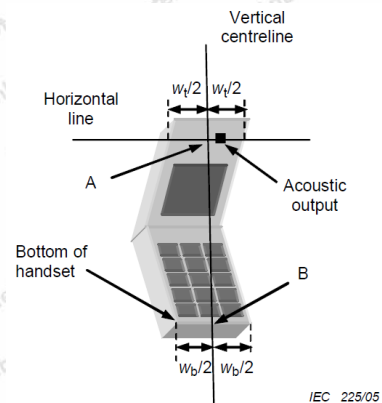
The vertical centreline passes through two points on the front side of the handset: the midpoint of the width W_t of the handset at the level of the acoustic output (point A in Figures 5a and 5b), and the midpoint of the width W_b of the bottom of the handset (point B).

The horizontal line is perpendicular to the vertical centreline and passes through the centre of the acoustic output (see Figures 5a and 5b). The two lines intersect at point A.

Note that for many handsets, point A coincides with the centre of the acoustic output. However, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centreline is not necessarily parallel to the front face of the handset (see Figure 5b), especially for clam-shell handsets, handsets with flip cover pieces, and other irregularly shaped handsets.



Figures 5a

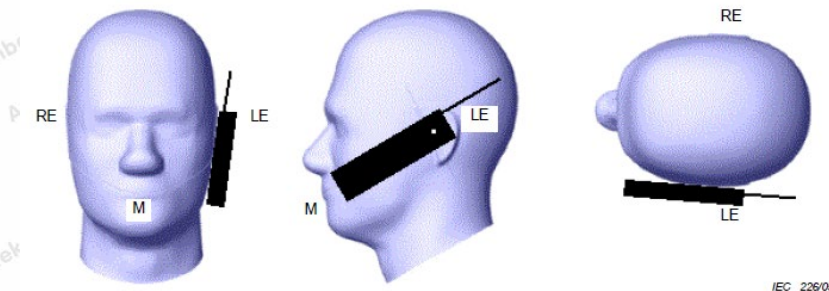


Figures 5b

- W_t Width of the handset at the level of the acoustic
- W_b Width of the bottom of the handset
- A Midpoint of the width w_t of the handset at the level of the acoustic output
- B Midpoint of the width w_b of the bottom of the handset

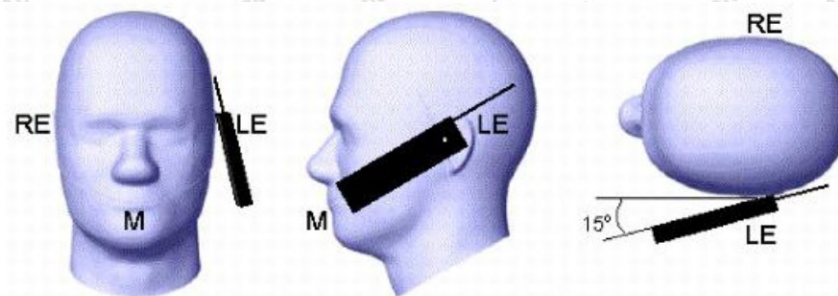


Cheek position



Picture 2 Cheek position of the wireless device on the left side of SAM

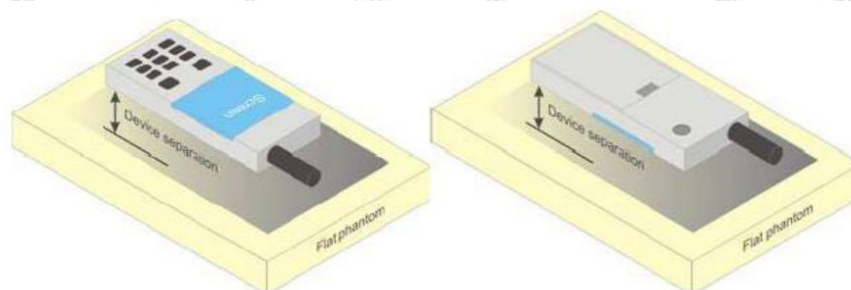
Tilt position



Picture 3 Tilt position of the wireless device on the left side of SAM

8.2.Body Position

Devices that support transmission while used with body-worn accessories must be tested for body-worn accessory SAR compliance, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. Devices that are designed to operate on the body of users using lanyards and straps or without requiring additional body-worn accessories must be tested for SAR compliance using a conservative minimum test separation distance $\leq 5\text{mm}$ to support compliance.



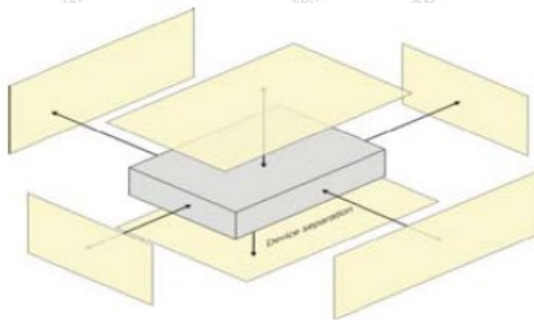
Picture 4 Test positions for body-worn devices



8.3.Hotspot Mode Exposure conditions

The hotspot mode and body-worn accessory SAR test configurations may overlap for handsets. When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations. This typically applies to the back and front surfaces of a handset when SAR is required for both hotspot mode and body-worn accessory exposure conditions. Depending on the form factor and dimensions of a device, the test separation distance used for hotspot mode SAR measurement is either

10 mm or that used in the body-worn accessory configuration, whichever is less for devices with dimension $> 9\text{ cm} \times 5\text{ cm}$. For smaller devices with dimensions $\leq 9\text{ cm} \times 5\text{ cm}$ because of a greater potential for next to body use a test separation of $\leq 5\text{ mm}$ must be used.



Picture 5 Test positions for Hotspot Mode



9. Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the middle channel.
- (b) Keep EUT to radiate maximum output power or 100% duty factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as setup photos demonstrates.
- (e) Set scan area, grid size and other setting on the DASY software.
- (f) Measure SAR transmitting at the middle channel for all applicable exposure positions.
- (g) Identify the exposure position and device configuration resulting the highest SAR
- (h) Measure SAR at the lowest and highest channels at the worst exposure position and device configuration if applicable.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

9.1. Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g



9.2. Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

9.3. Area Scan Procedures

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ 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.	



9.4. Zoom Scan Procedures

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 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: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
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: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> 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 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				



9.5. Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

9.6. Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.



10. Conducted Power

<GSM Conducted power>

Band GSM850	Burst Average Power (dBm)				Frame-Average Power (dBm)			
TX Channel	Tune-up	128	190	251	128	190	251	Tune-up
Frequency (MHz)	power	824.2	836.6	848.8	824.2	836.6	848.6	power
GSM (GMSK, 1 Tx slot)	33.50	32.93	32.75	33.00	23.90	23.72	23.97	24.00
GPRS (GMSK, 1 Tx slot)	33.00	32.91	32.92	33.06	23.88	23.89	24.03	24.50
GPRS (GMSK, 2 Tx slots)	32.50	32.12	32.08	32.22	26.10	26.06	26.20	26.50
GPRS (GMSK, 3 Tx slots)	30.50	30.33	30.28	30.41	26.07	26.02	26.15	26.50
GPRS (GMSK, 4 Tx slots)	29.00	29.34	29.29	29.41	26.33	26.28	26.40	26.50
EGPRS (8PSK, 1 Tx slot)	27.50	27.34	26.99	26.73	18.31	17.96	17.70	18.50
EGPRS (8PSK, 2 Tx slots)	26.50	26.30	26.00	25.73	20.28	19.98	19.71	20.50
EGPRS (8PSK, 3 Tx slots)	24.50	24.35	24.02	23.78	20.09	19.76	19.52	20.50
EGPRS (8PSK, 4 Tx slots)	24.00	23.23	22.93	22.64	20.22	19.92	19.63	20.50
Band PCS1900	Burst Average Power (dBm)				Frame-Average Power (dBm)			
TX Channel	Tune-up	512	661	810	512	661	810	Tune-up
Frequency (MHz)	power	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8	power
GSM (GMSK, 1 Tx slot)	30.00	29.98	29.69	29.58	20.95	20.66	20.55	21.00
GPRS (GMSK, 1 Tx slot)	30.00	29.98	29.69	29.58	20.95	20.66	20.55	21.00
GPRS (GMSK, 2 Tx slots)	29.50	29.16	28.81	28.70	23.14	22.79	22.68	23.50
GPRS (GMSK, 3 Tx slots)	28.00	27.42	26.98	26.94	23.16	22.72	22.68	23.50
GPRS (GMSK, 4 Tx slots)	27.00	26.45	25.99	25.96	23.44	22.98	22.95	24.00
EGPRS (8PSK, 1 Tx slot)	26.00	25.69	25.24	25.27	16.66	16.21	16.24	17.00
EGPRS (8PSK, 2 Tx slots)	26.00	25.75	25.24	25.14	19.73	19.22	19.12	20.00
EGPRS (8PSK, 3 Tx slots)	24.00	23.79	23.29	23.19	19.53	19.03	18.93	20.00
EGPRS (8PSK, 4 Tx slots)	23.00	22.72	22.23	22.12	19.71	19.22	19.11	20.00

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) – 9.03 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) – 6.02 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) – 3.01 dB

Note:

1. Per KDB 447498 D01, the maximum output power channel is used for SAR testing and for further SAR test reduction
2. For Hotspot mode SAR testing, GPRS should be evaluated, therefore the EUT was set in GPRS 4 Tx slots for GSM850 and PCS1900 due to its highest frame-average power.



<WCDMA Conducted Power>

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 5) (Note 6)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81
Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference. Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$. Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$. Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g. Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.													

Setup Configuration

<WCDMA Conducted Power>

WCDMA	Band II (dBm)				Band V (dBm)			
TX Channel	Tune-up power	9262	9400	9538	Tune-up power	4132	4183	4233
Frequency (MHz)		1852.4	1880.0	1907.6		826.4	836.6	846.6
RMC 12.2Kbps	23.00	22.92	22.46	22.71	24.00	23.61	23.54	23.44
HSDPA Subtest-1	22.00	21.98	21.44	21.81	22.00	21.85	21.73	21.58
HSDPA Subtest-2	22.00	21.49	20.87	21.27	21.50	21.26	21.19	21.06
HSDPA Subtest-3	22.50	21.49	20.88	21.28	21.50	21.29	21.17	21.01
HSDPA Subtest-4	22.50	21.47	20.87	21.23	21.50	21.25	21.14	20.95
HSUPA Subtest-1	20.00	19.93	19.29	19.69	20.00	19.76	19.62	19.48
HSUPA Subtest-2	20.50	20.32	19.65	20.07	20.50	20.17	20.06	19.92
HSUPA Subtest-3	21.00	20.85	20.19	20.61	21.00	20.68	20.54	20.44
HSUPA Subtest-4	20.00	19.91	19.29	19.64	20.00	19.69	19.56	19.44
HSUPA Subtest-5	22.00	21.95	21.32	21.72	22.00	21.70	21.60	21.48

WCDMA	Band IV (dBm)			
TX Channel	Tune-up power	1312	1412	1513
Frequency (MHz)		1712.4	1732.4	1752.6
RMC 12.2Kbps	23.00	22.39	22.39	22.75
HSDPA Subtest-1	23.00	22.63	22.61	22.52
HSDPA Subtest-2	22.50	22.07	22.02	21.95
HSDPA Subtest-3	22.50	22.02	21.99	21.86
HSDPA Subtest-4	22.50	22.11	22.07	22.02
HSUPA Subtest-1	21.00	20.53	20.49	20.41
HSUPA Subtest-2	21.50	21.07	21.02	20.93
HSUPA Subtest-3	22.00	21.58	21.58	21.50
HSUPA Subtest-4	21.00	20.58	20.57	20.48
HSUPA Subtest-5	23.00	22.57	22.52	22.43

General Note

1. Per KDB 941225 D01 v02, RMC 12.2kbps setting is used to evaluate SAR. If AMR 12.2kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2kbps can be excluded.
2. By design, AMR and HSDPA/HSUPA RF power will not be larger than RMC 12.2kbps, detailed information is included in Tune-up Procure exhibit.
3. It is expected by the manufacturer that MPR for some HSDPA/HSUPA subtests may differ from the specification of 3GPP, according to the chipset implementation in this model. The implementation and expected deviation are detailed in tune-up procedure exhibit.



<LTE Conducted Power>

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band2	1.4MHz	18607	1RB#0	22.78	21.95	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	18607	1RB#2	22.97	22.12	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	18607	1RB#5	22.81	21.94	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	18607	3RB#0	22.89	21.79	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	18607	3RB#1	22.89	21.80	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	18607	3RB#3	22.90	21.79	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	18607	6RB#0	21.89	20.97	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	18900	1RB#0	22.81	21.98	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	18900	1RB#2	23.04	21.94	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	18900	1RB#5	22.75	21.91	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	18900	3RB#0	22.90	21.78	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	18900	3RB#1	22.87	21.79	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	18900	3RB#3	22.86	21.78	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	18900	6RB#0	21.81	20.83	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	19193	1RB#0	22.79	21.70	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	19193	1RB#2	22.94	21.85	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	19193	1RB#5	22.77	21.69	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	19193	3RB#0	22.86	21.68	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	19193	3RB#1	22.85	21.72	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	19193	3RB#3	22.90	21.71	22.5±1.0	21.5±1.0
NTNV	Band2	1.4MHz	19193	6RB#0	21.88	20.90	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18615	1RB#0	22.86	22.11	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18615	1RB#8	22.87	22.10	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18615	1RB#14	22.90	22.11	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18615	8RB#0	21.95	20.98	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18615	8RB#4	21.92	21.02	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18615	8RB#7	21.98	20.99	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18615	15RB#0	21.90	20.98	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18900	1RB#0	22.91	22.12	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18900	1RB#8	22.87	22.05	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18900	1RB#14	22.85	21.99	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18900	8RB#0	21.89	20.92	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18900	8RB#4	21.85	20.96	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18900	8RB#7	21.88	20.89	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	18900	15RB#0	21.89	20.85	22.5±1.0	21.5±1.0



NTNV	Band2	3MHz	19185	1RB#0	22.97	21.85	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	19185	1RB#8	22.90	21.86	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	19185	1RB#14	22.93	21.83	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	19185	8RB#0	21.93	20.88	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	19185	8RB#4	21.90	20.93	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	19185	8RB#7	21.92	20.94	22.5±1.0	21.5±1.0
NTNV	Band2	3MHz	19185	15RB#0	21.90	20.78	22.5±1.0	21.5±1.0
NTNV	Band2	5MHz	18625	1RB#0	22.66	21.28	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	18625	1RB#12	22.43	21.46	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	18625	1RB#24	22.36	21.35	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	18625	12RB#0	21.39	20.36	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	18625	12RB#6	21.35	20.34	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	18625	12RB#13	21.37	20.36	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	18625	25RB#0	21.40	20.40	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	18900	1RB#0	22.80	21.57	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	18900	1RB#12	22.40	21.63	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	18900	1RB#24	22.19	21.47	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	18900	12RB#0	21.35	20.35	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	18900	12RB#6	21.32	20.33	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	18900	12RB#13	21.30	20.35	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	18900	25RB#0	21.34	20.33	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	19175	1RB#0	22.69	21.30	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	19175	1RB#12	22.38	21.40	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	19175	1RB#24	22.33	21.33	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	19175	12RB#0	21.37	20.43	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	19175	12RB#6	21.55	20.64	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	19175	12RB#13	21.65	20.65	22.0±1.0	21.0±1.0
NTNV	Band2	5MHz	19175	25RB#0	21.53	20.88	22.0±1.0	21.0±1.0
NTNV	Band2	10MHz	18650	1RB#0	22.84	22.02	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	18650	1RB#24	23.01	22.13	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	18650	1RB#49	22.88	22.09	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	18650	25RB#0	21.96	21.03	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	18650	25RB#12	22.00	20.99	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	18650	25RB#25	21.95	21.01	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	18650	50RB#0	21.95	20.94	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	18900	1RB#0	22.84	22.03	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	18900	1RB#24	22.91	22.13	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	18900	1RB#49	22.68	21.92	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	18900	25RB#0	21.89	20.94	22.5±1.0	21.5±1.0



NTNV	Band2	10MHz	18900	25RB#12	21.92	20.98	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	18900	25RB#25	21.89	20.94	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	18900	50RB#0	21.92	20.95	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	19150	1RB#0	22.72	21.62	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	19150	1RB#24	22.92	21.86	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	19150	1RB#49	22.81	21.76	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	19150	25RB#0	21.81	20.92	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	19150	25RB#12	21.84	20.91	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	19150	25RB#25	21.93	20.99	22.5±1.0	21.5±1.0
NTNV	Band2	10MHz	19150	50RB#0	21.88	20.86	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18675	1RB#0	22.63	21.87	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18675	1RB#38	22.91	22.15	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18675	1RB#74	22.78	21.96	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18675	38RB#0	21.98	21.98	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18675	38RB#18	21.99	21.98	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18675	38RB#37	21.98	21.97	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18675	75RB#0	21.97	20.93	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18900	1RB#0	22.73	21.99	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18900	1RB#38	22.80	22.13	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18900	1RB#74	22.46	21.74	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18900	38RB#0	21.85	21.88	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18900	38RB#18	21.87	21.84	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18900	38RB#37	21.85	21.85	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	18900	75RB#0	21.85	20.88	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	19125	1RB#0	22.51	21.46	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	19125	1RB#38	22.81	21.77	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	19125	1RB#74	22.68	21.61	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	19125	38RB#0	21.82	21.84	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	19125	38RB#18	21.83	21.83	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	19125	38RB#37	21.82	21.83	22.5±1.0	21.5±1.0
NTNV	Band2	15MHz	19125	75RB#0	21.82	20.78	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	18700	1RB#0	22.63	21.66	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	18700	1RB#49	23.03	22.18	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	18700	1RB#99	22.74	21.76	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	18700	50RB#0	21.96	20.96	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	18700	50RB#25	21.94	20.98	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	18700	50RB#50	21.92	20.96	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	18700	100RB#0	21.95	20.97	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	18900	1RB#0	22.72	21.88	22.5±1.0	21.5±1.0



NTNV	Band2	20MHz	18900	1RB#49	23.08	22.17	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	18900	1RB#99	22.41	21.64	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	18900	50RB#0	21.91	20.91	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	18900	50RB#25	21.94	20.92	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	18900	50RB#50	21.83	20.89	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	18900	100RB#0	21.86	20.85	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	19100	1RB#0	22.32	21.42	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	19100	1RB#49	22.67	21.99	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	19100	1RB#99	22.49	21.65	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	19100	50RB#0	21.81	20.93	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	19100	50RB#25	21.87	20.94	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	19100	50RB#50	21.91	21.02	22.5±1.0	21.5±1.0
NTNV	Band2	20MHz	19100	100RB#0	21.92	20.88	22.5±1.0	21.5±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band4	1.4MHz	19957	1RB#0	22.66	21.80	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	19957	1RB#2	22.73	21.93	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	19957	1RB#5	22.63	21.74	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	19957	3RB#0	22.72	21.63	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	19957	3RB#1	22.74	21.64	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	19957	3RB#3	22.73	21.61	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	19957	6RB#0	21.70	20.60	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20175	1RB#0	22.81	21.67	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20175	1RB#2	22.89	21.89	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20175	1RB#5	22.80	21.60	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20175	3RB#0	22.65	21.33	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20175	3RB#1	22.57	21.43	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20175	3RB#3	22.59	21.40	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20175	6RB#0	21.82	20.70	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20393	1RB#0	22.62	21.66	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20393	1RB#2	22.74	21.90	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20393	1RB#5	22.56	21.71	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20393	3RB#0	22.70	21.60	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20393	3RB#1	22.70	21.58	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20393	3RB#3	22.69	21.54	22.0±1.0	21.0±1.0
NTNV	Band4	1.4MHz	20393	6RB#0	21.71	20.74	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	19965	1RB#0	22.40	21.50	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	19965	1RB#8	22.24	21.42	22.0±1.0	21.0±1.0



NTNV	Band4	3MHz	19965	1RB#14	22.25	21.43	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	19965	8RB#0	21.27	20.24	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	19965	8RB#4	21.27	20.24	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	19965	8RB#7	21.29	20.28	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	19965	15RB#0	21.26	20.25	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20175	1RB#0	22.35	21.54	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20175	1RB#8	22.41	21.55	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20175	1RB#14	22.41	21.52	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20175	8RB#0	21.34	20.34	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20175	8RB#4	21.37	20.36	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20175	8RB#7	21.40	20.37	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20175	15RB#0	21.37	20.30	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20385	1RB#0	22.30	21.20	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20385	1RB#8	22.33	21.15	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20385	1RB#14	22.25	21.20	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20385	8RB#0	21.33	20.27	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20385	8RB#4	21.31	20.31	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20385	8RB#7	21.35	20.25	22.0±1.0	21.0±1.0
NTNV	Band4	3MHz	20385	15RB#0	21.31	20.18	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	19975	1RB#0	22.14	21.15	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	19975	1RB#12	22.24	21.29	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	19975	1RB#24	22.12	21.13	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	19975	12RB#0	21.14	20.09	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	19975	12RB#6	21.13	20.06	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	19975	12RB#13	21.15	20.13	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	19975	25RB#0	21.18	20.15	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	20175	1RB#0	22.19	21.46	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	20175	1RB#12	22.35	21.63	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	20175	1RB#24	22.25	21.50	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	20175	12RB#0	21.28	20.30	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	20175	12RB#6	21.28	20.28	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	20175	12RB#13	21.30	20.33	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	20175	25RB#0	21.28	20.25	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	20375	1RB#0	22.30	21.26	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	20375	1RB#12	22.31	21.28	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	20375	1RB#24	22.16	21.18	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	20375	12RB#0	21.27	20.13	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	20375	12RB#6	21.25	20.17	22.0±1.0	21.0±1.0
NTNV	Band4	5MHz	20375	12RB#13	21.30	20.19	22.0±1.0	21.0±1.0



NTNV	Band4	5MHz	20375	25RB#0	21.26	20.29	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20000	1RB#0	22.21	21.35	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20000	1RB#24	22.29	21.54	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20000	1RB#49	22.14	21.38	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20000	25RB#0	21.24	20.19	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20000	25RB#12	21.23	20.15	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20000	25RB#25	21.49	20.20	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20000	50RB#0	21.42	20.19	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20175	1RB#0	22.18	21.42	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20175	1RB#24	22.46	21.61	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20175	1RB#49	22.34	21.50	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20175	25RB#0	21.42	20.42	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20175	25RB#12	21.42	20.41	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20175	25RB#25	21.49	20.48	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20175	50RB#0	21.42	20.46	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20350	1RB#0	22.37	21.26	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20350	1RB#24	22.39	21.41	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20350	1RB#49	22.22	21.12	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20350	25RB#0	21.41	20.41	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20350	25RB#12	21.39	20.39	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20350	25RB#25	21.39	20.42	22.0±1.0	21.0±1.0
NTNV	Band4	10MHz	20350	50RB#0	21.40	20.34	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20025	1RB#0	21.99	21.23	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20025	1RB#38	22.22	21.44	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20025	1RB#74	22.10	21.35	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20025	38RB#0	21.24	21.22	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20025	38RB#18	21.22	21.23	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20025	38RB#37	21.23	21.23	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20025	75RB#0	21.23	20.13	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20175	1RB#0	22.01	21.34	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20175	1RB#38	22.30	21.67	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20175	1RB#74	22.22	21.55	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20175	38RB#0	21.41	21.35	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20175	38RB#18	21.36	21.38	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20175	38RB#37	21.39	21.41	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20175	75RB#0	21.42	20.31	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20325	1RB#0	22.27	21.14	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20325	1RB#38	22.40	21.38	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20325	1RB#74	22.14	21.02	22.0±1.0	21.0±1.0



NTNV	Band4	15MHz	20325	38RB#0	21.39	21.40	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20325	38RB#18	21.39	21.37	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20325	38RB#37	21.39	21.34	22.0±1.0	21.0±1.0
NTNV	Band4	15MHz	20325	75RB#0	21.38	20.28	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20050	1RB#0	21.96	20.97	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20050	1RB#49	22.42	21.42	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20050	1RB#99	22.11	21.16	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20050	50RB#0	21.30	20.24	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20050	50RB#25	21.26	20.26	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20050	50RB#50	21.18	20.17	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20050	100RB#0	21.24	20.24	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20175	1RB#0	21.96	21.15	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20175	1RB#49	22.50	21.66	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20175	1RB#99	22.16	21.42	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20175	50RB#0	21.44	20.38	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20175	50RB#25	21.41	20.35	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20175	50RB#50	21.48	20.49	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20175	100RB#0	21.46	20.36	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20300	1RB#0	22.00	21.10	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20300	1RB#49	22.48	21.55	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20300	1RB#99	21.89	21.04	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20300	50RB#0	21.36	20.38	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20300	50RB#25	21.37	20.40	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20300	50RB#50	21.48	20.47	22.0±1.0	21.0±1.0
NTNV	Band4	20MHz	20300	100RB#0	21.48	20.43	22.0±1.0	21.0±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band5	1.4MHz	20407	1RB#0	23.21	22.36	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20407	1RB#2	23.22	22.37	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20407	1RB#5	23.14	22.28	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20407	3RB#0	23.16	22.09	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20407	3RB#1	23.15	22.11	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20407	3RB#3	23.15	22.12	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20407	6RB#0	22.18	21.09	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20525	1RB#0	23.51	22.10	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20525	1RB#2	23.35	22.26	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20525	1RB#5	23.19	22.15	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20525	3RB#0	23.26	22.12	23.0±1.0	22.0±1.0



NTNV	Band5	1.4MHz	20525	3RB#1	23.30	22.10	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20525	3RB#3	23.31	22.09	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20525	6RB#0	22.25	21.56	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20643	1RB#0	23.26	22.29	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20643	1RB#2	23.28	22.51	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20643	1RB#5	23.13	22.28	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20643	3RB#0	23.26	22.13	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20643	3RB#1	23.26	22.17	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20643	3RB#3	23.25	22.13	23.0±1.0	22.0±1.0
NTNV	Band5	1.4MHz	20643	6RB#0	22.20	21.30	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20415	1RB#0	23.58	22.40	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20415	1RB#8	23.22	22.57	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20415	1RB#14	23.18	22.45	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20415	8RB#0	22.44	21.61	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20415	8RB#4	22.32	21.50	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20415	8RB#7	22.49	21.72	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20415	15RB#0	22.51	21.47	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20525	1RB#0	23.77	22.69	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20525	1RB#8	23.75	22.66	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20525	1RB#14	23.55	22.59	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20525	8RB#0	22.56	21.64	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20525	8RB#4	22.73	21.82	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20525	8RB#7	22.63	21.54	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20525	15RB#0	22.72	21.74	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20635	1RB#0	23.86	22.49	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20635	1RB#8	23.34	22.27	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20635	1RB#14	23.31	22.25	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20635	8RB#0	22.39	21.41	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20635	8RB#4	22.38	21.49	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20635	8RB#7	22.35	21.37	23.0±1.0	22.0±1.0
NTNV	Band5	3MHz	20635	15RB#0	22.30	21.23	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20425	1RB#0	23.62	22.32	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20425	1RB#12	23.68	22.67	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20425	1RB#24	23.67	22.62	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20425	12RB#0	22.62	21.62	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20425	12RB#6	22.61	21.60	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20425	12RB#13	22.64	21.63	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20425	25RB#0	22.67	21.70	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20525	1RB#0	23.69	22.88	23.0±1.0	22.0±1.0



NTNV	Band5	5MHz	20525	1RB#12	23.88	23.03	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20525	1RB#24	23.65	22.45	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20525	12RB#0	22.46	21.81	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20525	12RB#6	22.78	21.84	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20525	12RB#13	22.72	21.77	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20525	25RB#0	22.77	21.65	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20625	1RB#0	23.78	22.75	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20625	1RB#12	23.60	22.54	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20625	1RB#24	23.21	22.22	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20625	12RB#0	22.32	21.74	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20625	12RB#6	22.63	21.73	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20625	12RB#13	22.62	21.55	23.0±1.0	22.0±1.0
NTNV	Band5	5MHz	20625	25RB#0	22.60	21.42	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20450	1RB#0	23.56	22.58	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20450	1RB#24	23.86	23.00	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20450	1RB#49	23.64	22.79	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20450	25RB#0	22.70	21.70	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20450	25RB#12	22.70	21.65	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20450	25RB#25	22.71	21.74	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20450	50RB#0	22.69	21.66	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20525	1RB#0	23.63	22.71	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20525	1RB#24	23.86	23.02	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20525	1RB#49	23.50	22.39	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20525	25RB#0	22.67	21.94	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20525	25RB#12	22.87	21.91	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20525	25RB#25	22.79	21.82	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20525	50RB#0	22.87	21.89	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20600	1RB#0	23.73	22.19	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20600	1RB#24	23.78	22.71	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20600	1RB#49	23.32	22.15	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20600	25RB#0	22.31	21.33	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20600	25RB#12	22.67	21.55	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20600	25RB#25	22.47	21.42	23.0±1.0	22.0±1.0
NTNV	Band5	10MHz	20600	50RB#0	22.50	21.40	23.0±1.0	22.0±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band7	5MHz	20775	1RB#0	21.32	20.57	21.0±1.0	20.0±1.0
NTNV	Band7	5MHz	20775	1RB#12	21.58	20.80	21.0±1.0	20.0±1.0



NTNV	Band7	5MHz	20775	1RB#24	21.55	20.79	21.0±1.0	20.0±1.0
NTNV	Band7	5MHz	20775	12RB#0	20.50	19.49	21.0±1.0	20.0±1.0
NTNV	Band7	5MHz	20775	12RB#6	20.50	19.56	21.0±1.0	20.0±1.0
NTNV	Band7	5MHz	20775	12RB#13	20.64	19.65	21.0±1.0	20.0±1.0
NTNV	Band7	5MHz	20775	25RB#0	20.60	19.52	21.0±1.0	20.0±1.0
NTNV	Band7	5MHz	21100	1RB#0	21.26	20.33	21.0±1.0	20.0±1.0
NTNV	Band7	5MHz	21100	1RB#12	21.38	20.41	21.0±1.0	20.0±1.0
NTNV	Band7	5MHz	21100	1RB#24	21.27	20.23	21.0±1.0	20.0±1.0
NTNV	Band7	5MHz	21100	12RB#0	20.30	19.35	21.0±1.0	20.0±1.0
NTNV	Band7	5MHz	21100	12RB#6	20.25	19.32	21.0±1.0	20.0±1.0
NTNV	Band7	5MHz	21100	12RB#13	20.18	19.28	21.0±1.0	20.0±1.0
NTNV	Band7	5MHz	21100	25RB#0	20.32	19.35	21.0±1.0	20.0±1.0
NTNV	Band7	5MHz	21425	1RB#0	21.95	20.95	21.5±1.0	20.5±1.0
NTNV	Band7	5MHz	21425	1RB#12	22.14	21.11	21.5±1.0	20.5±1.0
NTNV	Band7	5MHz	21425	1RB#24	22.02	21.01	21.5±1.0	20.5±1.0
NTNV	Band7	5MHz	21425	12RB#0	21.07	20.09	21.5±1.0	20.5±1.0
NTNV	Band7	5MHz	21425	12RB#6	21.10	20.06	21.5±1.0	20.5±1.0
NTNV	Band7	5MHz	21425	12RB#13	21.05	20.07	21.5±1.0	20.5±1.0
NTNV	Band7	5MHz	21425	25RB#0	21.10	20.13	21.5±1.0	20.5±1.0
NTNV	Band7	10MHz	20800	1RB#0	21.35	20.51	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	20800	1RB#24	21.70	20.94	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	20800	1RB#49	21.71	20.93	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	20800	25RB#0	20.60	19.64	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	20800	25RB#12	20.59	19.61	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	20800	25RB#25	20.83	19.81	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	20800	50RB#0	20.70	19.70	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	21100	1RB#0	21.24	20.39	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	21100	1RB#24	21.42	20.69	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	21100	1RB#49	21.17	20.36	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	21100	25RB#0	20.36	19.44	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	21100	25RB#12	20.39	19.45	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	21100	25RB#25	20.31	19.32	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	21100	50RB#0	20.30	19.34	21.0±1.0	20.0±1.0
NTNV	Band7	10MHz	21400	1RB#0	21.80	20.72	21.5±1.0	20.5±1.0
NTNV	Band7	10MHz	21400	1RB#24	22.13	21.10	21.5±1.0	20.5±1.0
NTNV	Band7	10MHz	21400	1RB#49	22.07	20.98	21.5±1.0	20.5±1.0
NTNV	Band7	10MHz	21400	25RB#0	21.06	20.13	21.5±1.0	20.5±1.0
NTNV	Band7	10MHz	21400	25RB#12	21.12	20.12	21.5±1.0	20.5±1.0
NTNV	Band7	10MHz	21400	25RB#25	21.11	20.16	21.5±1.0	20.5±1.0



NTNV	Band7	10MHz	21400	50RB#0	21.06	20.09	21.5±1.0	20.5±1.0
NTNV	Band7	15MHz	20825	1RB#0	21.23	20.39	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	20825	1RB#38	21.72	20.88	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	20825	1RB#74	21.57	20.74	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	20825	38RB#0	20.70	20.69	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	20825	38RB#18	20.71	20.71	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	20825	38RB#37	20.69	20.68	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	20825	75RB#0	20.72	19.62	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	21100	1RB#0	21.18	20.45	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	21100	1RB#38	21.25	20.51	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	21100	1RB#74	21.06	20.31	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	21100	38RB#0	20.31	20.34	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	21100	38RB#18	20.28	20.28	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	21100	38RB#37	20.29	20.30	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	21100	75RB#0	20.30	19.27	21.0±1.0	20.0±1.0
NTNV	Band7	15MHz	21375	1RB#0	21.53	20.39	21.5±1.0	20.5±1.0
NTNV	Band7	15MHz	21375	1RB#38	22.01	20.91	21.5±1.0	20.5±1.0
NTNV	Band7	15MHz	21375	1RB#74	21.97	20.76	21.5±1.0	20.5±1.0
NTNV	Band7	15MHz	21375	38RB#0	20.92	20.97	21.5±1.0	20.5±1.0
NTNV	Band7	15MHz	21375	38RB#18	20.98	20.97	21.5±1.0	20.5±1.0
NTNV	Band7	15MHz	21375	38RB#37	20.99	20.93	21.5±1.0	20.5±1.0
NTNV	Band7	15MHz	21375	75RB#0	20.96	19.94	21.5±1.0	20.5±1.0
NTNV	Band7	20MHz	20850	1RB#0	21.30	20.31	21.5±1.0	20.5±1.0
NTNV	Band7	20MHz	20850	1RB#49	22.07	21.02	21.5±1.0	20.5±1.0
NTNV	Band7	20MHz	20850	1RB#99	21.55	20.52	21.5±1.0	20.5±1.0
NTNV	Band7	20MHz	20850	50RB#0	20.69	19.68	21.5±1.0	20.5±1.0
NTNV	Band7	20MHz	20850	50RB#25	20.68	19.74	21.5±1.0	20.5±1.0
NTNV	Band7	20MHz	20850	50RB#50	20.84	19.81	21.5±1.0	20.5±1.0
NTNV	Band7	20MHz	20850	100RB#0	20.74	19.71	21.5±1.0	20.5±1.0
NTNV	Band7	20MHz	21100	1RB#0	21.23	20.37	21.0±1.0	20.0±1.0
NTNV	Band7	20MHz	21100	1RB#49	21.44	20.57	21.0±1.0	20.0±1.0
NTNV	Band7	20MHz	21100	1RB#99	21.04	20.23	21.0±1.0	20.0±1.0
NTNV	Band7	20MHz	21100	50RB#0	20.81	19.46	21.0±1.0	20.0±1.0
NTNV	Band7	20MHz	21100	50RB#25	20.39	19.39	21.0±1.0	20.0±1.0
NTNV	Band7	20MHz	21100	50RB#50	20.21	19.26	21.0±1.0	20.0±1.0
NTNV	Band7	20MHz	21100	100RB#0	20.30	19.28	21.0±1.0	20.0±1.0
NTNV	Band7	20MHz	21350	1RB#0	21.07	20.19	21.0±1.0	20.0±1.0
NTNV	Band7	20MHz	21350	1RB#49	21.80	20.98	21.0±1.0	20.0±1.0
NTNV	Band7	20MHz	21350	1RB#99	21.71	20.77	21.0±1.0	20.0±1.0



NTNV	Band7	20MHz	21350	50RB#0	20.75	19.81	21.0±1.0	20.0±1.0
NTNV	Band7	20MHz	21350	50RB#25	20.75	19.82	21.0±1.0	20.0±1.0
NTNV	Band7	20MHz	21350	50RB#50	20.91	19.91	21.0±1.0	20.0±1.0
NTNV	Band7	20MHz	21350	100RB#0	20.80	19.85	21.0±1.0	20.0±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band12	1.4MHz	23017	1RB#0	23.56	22.35	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23017	1RB#2	23.72	22.58	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23017	1RB#5	23.49	22.30	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23017	3RB#0	23.51	22.30	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23017	3RB#1	23.51	22.30	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23017	3RB#3	23.55	22.28	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23017	6RB#0	22.48	21.49	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23095	1RB#0	23.30	22.35	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23095	1RB#2	23.39	22.49	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23095	1RB#5	23.25	22.30	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23095	3RB#0	23.39	22.20	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23095	3RB#1	23.35	22.19	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23095	3RB#3	23.30	22.17	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23095	6RB#0	22.30	21.35	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23173	1RB#0	23.14	22.18	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23173	1RB#2	23.26	22.45	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23173	1RB#5	23.12	22.19	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23173	3RB#0	23.19	22.05	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23173	3RB#1	23.17	22.02	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23173	3RB#3	23.24	22.03	23.0±1.0	22.0±1.0
NTNV	Band12	1.4MHz	23173	6RB#0	22.18	21.10	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23025	1RB#0	23.54	22.90	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23025	1RB#8	23.64	22.66	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23025	1RB#14	23.53	22.58	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23025	8RB#0	22.76	22.08	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23025	8RB#4	23.11	22.10	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23025	8RB#7	23.08	22.10	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23025	15RB#0	23.07	22.02	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23095	1RB#0	23.96	22.75	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23095	1RB#8	23.71	22.75	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23095	1RB#14	23.66	22.89	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23095	8RB#0	22.93	21.90	23.0±1.0	22.0±1.0



NTNV	Band12	3MHz	23095	8RB#4	22.93	21.91	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23095	8RB#7	22.90	21.87	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23095	15RB#0	22.88	21.75	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23165	1RB#0	23.80	22.41	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23165	1RB#8	23.45	22.15	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23165	1RB#14	23.23	22.13	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23165	8RB#0	22.42	21.70	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23165	8RB#4	22.81	21.67	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23165	8RB#7	22.83	21.79	23.0±1.0	22.0±1.0
NTNV	Band12	3MHz	23165	15RB#0	22.61	21.64	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23035	1RB#0	23.93	22.74	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23035	1RB#12	24.03	22.52	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23035	1RB#24	23.50	22.41	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23035	12RB#0	22.93	22.02	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23035	12RB#6	23.05	21.97	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23035	12RB#13	22.85	21.79	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23035	25RB#0	22.85	21.92	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23095	1RB#0	23.82	22.82	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23095	1RB#12	23.56	22.75	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23095	1RB#24	23.50	22.74	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23095	12RB#0	22.86	21.77	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23095	12RB#6	22.81	21.77	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23095	12RB#13	22.84	21.80	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23095	25RB#0	22.85	21.77	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23155	1RB#0	23.70	22.58	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23155	1RB#12	23.63	22.29	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23155	1RB#24	23.26	22.13	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23155	12RB#0	22.56	21.66	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23155	12RB#6	22.77	21.73	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23155	12RB#13	22.71	21.61	23.0±1.0	22.0±1.0
NTNV	Band12	5MHz	23155	25RB#0	22.75	21.73	23.0±1.0	22.0±1.0
NTNV	Band12	10MHz	23060	1RB#0	23.91	23.09	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23060	1RB#24	24.04	22.92	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23060	1RB#49	23.73	22.75	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23060	25RB#0	23.08	22.04	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23060	25RB#12	23.09	22.03	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23060	25RB#25	23.05	21.96	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23060	50RB#0	23.06	21.99	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23095	1RB#0	23.88	22.95	23.5±1.0	22.5±1.0



NTNV	Band12	10MHz	23095	1RB#24	23.98	23.11	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23095	1RB#49	23.73	22.90	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23095	25RB#0	22.91	21.85	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23095	25RB#12	22.87	21.85	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23095	25RB#25	22.84	21.82	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23095	50RB#0	22.87	21.81	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23130	1RB#0	23.84	22.76	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23130	1RB#24	23.85	22.85	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23130	1RB#49	23.69	22.51	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23130	25RB#0	22.80	21.79	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23130	25RB#12	22.82	21.80	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23130	25RB#25	22.73	21.74	23.5±1.0	22.5±1.0
NTNV	Band12	10MHz	23130	50RB#0	22.75	21.66	23.5±1.0	22.5±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band13	5MHz	23205	1RB#0	23.86	23.09	23.0±1.0	22.5±1.0
NTNV	Band13	5MHz	23205	1RB#12	23.82	22.97	23.0±1.0	22.5±1.0
NTNV	Band13	5MHz	23205	1RB#24	23.47	22.70	23.0±1.0	22.5±1.0
NTNV	Band13	5MHz	23205	12RB#0	22.52	21.74	23.0±1.0	22.5±1.0
NTNV	Band13	5MHz	23205	12RB#6	22.69	21.84	23.0±1.0	22.5±1.0
NTNV	Band13	5MHz	23205	12RB#13	22.76	21.79	23.0±1.0	22.5±1.0
NTNV	Band13	5MHz	23205	25RB#0	22.56	21.59	23.0±1.0	22.5±1.0
NTNV	Band13	5MHz	23230	1RB#0	23.97	22.60	23.0±1.0	22.0±1.0
NTNV	Band13	5MHz	23230	1RB#12	23.62	22.66	23.0±1.0	22.0±1.0
NTNV	Band13	5MHz	23230	1RB#24	23.51	22.52	23.0±1.0	22.0±1.0
NTNV	Band13	5MHz	23230	12RB#0	22.53	21.57	23.0±1.0	22.0±1.0
NTNV	Band13	5MHz	23230	12RB#6	22.65	21.70	23.0±1.0	22.0±1.0
NTNV	Band13	5MHz	23230	12RB#13	22.77	21.76	23.0±1.0	22.0±1.0
NTNV	Band13	5MHz	23230	25RB#0	22.67	21.63	23.0±1.0	22.0±1.0
NTNV	Band13	5MHz	23255	1RB#0	23.92	22.46	23.0±1.0	22.0±1.0
NTNV	Band13	5MHz	23255	1RB#12	23.55	22.60	23.0±1.0	22.0±1.0
NTNV	Band13	5MHz	23255	1RB#24	23.46	22.46	23.0±1.0	22.0±1.0
NTNV	Band13	5MHz	23255	12RB#0	22.43	21.52	23.0±1.0	22.0±1.0
NTNV	Band13	5MHz	23255	12RB#6	22.52	21.45	23.0±1.0	22.0±1.0
NTNV	Band13	5MHz	23255	12RB#13	22.66	21.87	23.0±1.0	22.0±1.0
NTNV	Band13	5MHz	23255	25RB#0	22.74	21.77	23.0±1.0	22.0±1.0
NTNV	Band13	10MHz	23230	1RB#0	23.33	22.51	23.0±1.0	22.0±1.0
NTNV	Band13	10MHz	23230	1RB#24	23.61	22.85	23.0±1.0	22.0±1.0



NTNV	Band13	10MHz	23230	1RB#49	23.45	22.68	23.0±1.0	22.0±1.0
NTNV	Band13	10MHz	23230	25RB#0	22.62	21.63	23.0±1.0	22.0±1.0
NTNV	Band13	10MHz	23230	25RB#12	22.67	21.68	23.0±1.0	22.0±1.0
NTNV	Band13	10MHz	23230	25RB#25	22.84	21.88	23.0±1.0	22.0±1.0
NTNV	Band13	10MHz	23230	50RB#0	22.75	21.73	23.0±1.0	22.0±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band17	5MHz	23755	1RB#0	23.81	23.02	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23755	1RB#12	23.84	23.01	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23755	1RB#24	23.69	22.91	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23755	12RB#0	22.84	21.79	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23755	12RB#6	22.85	21.78	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23755	12RB#13	22.92	21.86	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23755	25RB#0	22.88	21.79	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23790	1RB#0	23.82	22.81	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23790	1RB#12	23.87	22.88	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23790	1RB#24	23.72	22.72	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23790	12RB#0	22.73	21.70	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23790	12RB#6	22.70	21.68	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23790	12RB#13	22.71	21.66	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23790	25RB#0	22.73	21.77	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23825	1RB#0	23.69	22.70	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23825	1RB#12	23.77	22.77	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23825	1RB#24	23.66	22.61	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23825	12RB#0	22.80	21.70	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23825	12RB#6	22.81	21.67	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23825	12RB#13	22.72	21.65	23.0±1.0	22.5±1.0
NTNV	Band17	5MHz	23825	25RB#0	22.77	21.70	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23780	1RB#0	23.75	22.54	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23780	1RB#24	23.90	23.04	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23780	1RB#49	23.63	22.29	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23780	25RB#0	22.82	21.81	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23780	25RB#12	22.88	21.80	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23780	25RB#25	22.77	21.66	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23780	50RB#0	22.77	21.71	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23790	1RB#0	23.79	22.54	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23790	1RB#24	23.94	22.96	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23790	1RB#49	23.53	22.36	23.0±1.0	22.5±1.0



NTNV	Band17	10MHz	23790	25RB#0	22.81	21.81	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23790	25RB#12	22.85	21.78	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23790	25RB#25	22.69	21.66	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23790	50RB#0	22.75	21.72	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23800	1RB#0	23.84	22.54	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23800	1RB#24	23.80	22.85	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23800	1RB#49	23.49	22.19	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23800	25RB#0	22.74	21.84	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23800	25RB#12	22.85	21.80	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23800	25RB#25	22.72	21.69	23.0±1.0	22.5±1.0
NTNV	Band17	10MHz	23800	50RB#0	22.74	21.71	23.0±1.0	22.5±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band25	1.4MHz	26047	1RB#0	22.43	21.64	22.5±1.0	21.0±1.0
NTNV	Band25	1.4MHz	26047	1RB#2	22.45	21.79	22.5±1.0	21.0±1.0
NTNV	Band25	1.4MHz	26047	1RB#5	22.41	21.58	22.5±1.0	21.0±1.0
NTNV	Band25	1.4MHz	26047	3RB#0	22.47	21.52	22.5±1.0	21.0±1.0
NTNV	Band25	1.4MHz	26047	3RB#1	22.47	21.52	22.5±1.0	21.0±1.0
NTNV	Band25	1.4MHz	26047	3RB#3	22.63	21.46	22.5±1.0	21.0±1.0
NTNV	Band25	1.4MHz	26047	6RB#0	21.75	20.41	22.5±1.0	21.0±1.0
NTNV	Band25	1.4MHz	26365	1RB#0	22.95	21.64	22.5±1.0	21.5±1.0
NTNV	Band25	1.4MHz	26365	1RB#2	22.88	21.54	22.5±1.0	21.5±1.0
NTNV	Band25	1.4MHz	26365	1RB#5	22.80	21.44	22.5±1.0	21.5±1.0
NTNV	Band25	1.4MHz	26365	3RB#0	22.83	21.52	22.5±1.0	21.5±1.0
NTNV	Band25	1.4MHz	26365	3RB#1	22.96	21.44	22.5±1.0	21.5±1.0
NTNV	Band25	1.4MHz	26365	3RB#3	22.87	21.51	22.5±1.0	21.5±1.0
NTNV	Band25	1.4MHz	26365	6RB#0	21.84	20.94	22.5±1.0	21.5±1.0
NTNV	Band25	1.4MHz	26683	1RB#0	22.94	21.72	22.5±1.0	21.5±1.0
NTNV	Band25	1.4MHz	26683	1RB#2	22.56	21.69	22.5±1.0	21.5±1.0
NTNV	Band25	1.4MHz	26683	1RB#5	22.45	21.62	22.5±1.0	21.5±1.0
NTNV	Band25	1.4MHz	26683	3RB#0	22.55	21.46	22.5±1.0	21.5±1.0
NTNV	Band25	1.4MHz	26683	3RB#1	22.55	21.43	22.5±1.0	21.5±1.0
NTNV	Band25	1.4MHz	26683	3RB#3	22.53	21.45	22.5±1.0	21.5±1.0
NTNV	Band25	1.4MHz	26683	6RB#0	21.54	20.62	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26055	1RB#0	22.97	22.27	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26055	1RB#8	22.97	22.26	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26055	1RB#14	23.06	22.24	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26055	8RB#0	22.07	21.11	22.5±1.0	21.5±1.0



NTNV	Band25	3MHz	26055	8RB#4	22.05	21.11	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26055	8RB#7	22.05	21.13	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26055	15RB#0	22.08	21.06	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26365	1RB#0	23.05	22.23	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26365	1RB#8	23.01	22.21	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26365	1RB#14	22.99	22.12	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26365	8RB#0	22.04	21.08	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26365	8RB#4	21.99	21.06	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26365	8RB#7	22.00	21.02	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26365	15RB#0	21.97	20.98	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26675	1RB#0	23.14	22.02	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26675	1RB#8	23.09	22.02	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26675	1RB#14	23.09	21.66	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26675	8RB#0	21.90	21.20	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26675	8RB#4	22.18	21.18	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26675	8RB#7	22.06	20.87	22.5±1.0	21.5±1.0
NTNV	Band25	3MHz	26675	15RB#0	22.09	21.04	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26065	1RB#0	22.92	21.94	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26065	1RB#12	23.01	22.08	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26065	1RB#24	22.96	22.04	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26065	12RB#0	21.94	20.98	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26065	12RB#6	21.95	20.94	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26065	12RB#13	21.96	20.96	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26065	25RB#0	21.96	20.97	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26365	1RB#0	22.90	22.20	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26365	1RB#12	22.99	22.24	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26365	1RB#24	22.84	22.08	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26365	12RB#0	21.97	20.95	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26365	12RB#6	21.93	20.96	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26365	12RB#13	21.92	20.99	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26365	25RB#0	21.89	20.99	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26665	1RB#0	23.04	22.02	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26665	1RB#12	23.12	22.14	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26665	1RB#24	23.02	21.95	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26665	12RB#0	21.99	21.10	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26665	12RB#6	22.12	21.17	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26665	12RB#13	21.92	20.94	22.5±1.0	21.5±1.0
NTNV	Band25	5MHz	26665	25RB#0	22.00	21.08	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26090	1RB#0	22.89	22.11	22.5±1.0	21.5±1.0



NTNV	Band25	10MHz	26090	1RB#24	23.18	22.26	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26090	1RB#49	23.00	22.22	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26090	25RB#0	22.09	21.08	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26090	25RB#12	22.07	21.11	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26090	25RB#25	22.11	21.15	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26090	50RB#0	22.09	21.05	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26365	1RB#0	22.96	22.14	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26365	1RB#24	23.06	22.14	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26365	1RB#49	22.80	22.00	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26365	25RB#0	22.03	21.04	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26365	25RB#12	22.04	21.05	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26365	25RB#25	21.99	21.04	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26365	50RB#0	22.00	21.00	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26640	1RB#0	22.96	21.84	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26640	1RB#24	23.17	22.05	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26640	1RB#49	23.00	21.41	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26640	25RB#0	22.01	21.11	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26640	25RB#12	22.04	21.10	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26640	25RB#25	21.93	20.99	22.5±1.0	21.5±1.0
NTNV	Band25	10MHz	26640	50RB#0	22.05	21.00	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26115	1RB#0	22.74	21.93	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26115	1RB#38	23.06	22.25	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26115	1RB#74	22.94	22.11	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26115	38RB#0	22.09	22.10	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26115	38RB#18	22.05	22.06	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26115	38RB#37	22.09	22.06	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26115	75RB#0	22.06	21.05	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26365	1RB#0	22.80	22.13	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26365	1RB#38	22.93	22.20	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26365	1RB#74	22.60	21.94	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26365	38RB#0	21.97	21.95	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26365	38RB#18	21.96	21.94	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26365	38RB#37	21.94	21.94	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26365	75RB#0	21.95	20.95	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26615	1RB#0	22.77	21.64	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26615	1RB#38	23.07	21.86	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26615	1RB#74	22.84	21.27	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26615	38RB#0	21.83	21.80	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26615	38RB#18	21.92	21.92	22.5±1.0	21.5±1.0



NTNV	Band25	15MHz	26615	38RB#37	21.95	21.95	22.5±1.0	21.5±1.0
NTNV	Band25	15MHz	26615	75RB#0	21.93	20.91	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26140	1RB#0	22.70	21.78	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26140	1RB#49	23.23	22.31	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26140	1RB#99	22.91	21.90	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26140	50RB#0	22.09	21.13	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26140	50RB#25	22.07	21.08	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26140	50RB#50	22.07	21.08	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26140	100RB#0	22.06	21.05	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26365	1RB#0	22.77	22.04	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26365	1RB#49	23.06	22.21	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26365	1RB#99	22.60	21.75	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26365	50RB#0	21.91	21.00	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26365	50RB#25	21.99	21.01	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26365	50RB#50	21.89	20.94	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26365	100RB#0	21.93	20.93	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26590	1RB#0	22.43	21.61	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26590	1RB#49	22.95	22.13	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26590	1RB#99	22.47	21.40	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26590	50RB#0	21.62	21.02	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26590	50RB#25	21.73	20.90	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26590	50RB#50	21.89	20.93	22.5±1.0	21.5±1.0
NTNV	Band25	20MHz	26590	100RB#0	21.85	20.90	22.5±1.0	21.5±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band26	1.4MHz	26697	1RB#0	23.64	22.75	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26697	1RB#2	23.76	22.84	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26697	1RB#5	23.63	22.69	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26697	3RB#0	23.71	22.58	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26697	3RB#1	23.71	22.57	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26697	3RB#3	23.68	22.52	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26697	6RB#0	22.69	22.04	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26740	1RB#0	23.90	22.68	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26740	1RB#2	23.71	22.88	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26740	1RB#5	23.56	22.67	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26740	3RB#0	23.65	22.55	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26740	3RB#1	23.63	22.54	23.5±1.0	22.5±1.0



NTNV	Band26	1.4MHz	26740	3RB#3	23.65	22.54	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26740	6RB#0	22.57	21.50	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26783	1RB#0	23.59	22.43	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26783	1RB#2	23.57	22.93	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26783	1RB#5	23.91	22.82	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26783	3RB#0	23.95	22.78	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26783	3RB#1	23.95	22.77	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26783	3RB#3	23.97	22.76	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26783	6RB#0	22.89	21.90	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26797	1RB#0	24.10	23.16	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26797	1RB#2	24.24	23.30	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26797	1RB#5	24.08	23.17	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26797	3RB#0	24.12	22.94	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26797	3RB#1	24.09	22.96	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26797	3RB#3	24.10	22.93	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26797	6RB#0	23.01	22.12	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26915	1RB#0	24.18	23.30	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26915	1RB#2	24.32	23.42	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26915	1RB#5	24.16	23.38	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26915	3RB#0	24.25	23.19	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26915	3RB#1	24.28	23.19	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26915	3RB#3	24.30	23.18	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	26915	6RB#0	23.24	22.27	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	27033	1RB#0	24.30	23.45	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	27033	1RB#2	24.33	23.66	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	27033	1RB#5	24.27	23.43	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	27033	3RB#0	24.35	23.06	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	27033	3RB#1	23.89	22.80	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	27033	3RB#3	24.01	22.79	23.5±1.0	22.5±1.0
NTNV	Band26	1.4MHz	27033	6RB#0	22.82	21.76	23.5±1.0	22.5±1.0
NTNV	Band26	3MHz	26705	1RB#0	23.55	22.73	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26705	1RB#8	23.45	22.69	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26705	1RB#14	23.46	22.65	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26705	8RB#0	22.66	21.61	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26705	8RB#4	22.57	21.62	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26705	8RB#7	22.76	21.59	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26705	15RB#0	22.64	21.65	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26740	1RB#0	23.90	22.69	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26740	1RB#8	23.54	22.65	23.0±1.0	22.0±1.0



NTNV	Band26	3MHz	26740	1RB#14	23.46	22.62	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26740	8RB#0	22.51	21.56	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26740	8RB#4	22.50	21.53	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26740	8RB#7	22.50	21.52	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26740	15RB#0	22.49	21.46	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26775	1RB#0	23.61	22.40	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26775	1RB#8	23.53	22.40	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26775	1RB#14	23.51	22.48	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26775	8RB#0	22.43	21.49	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26775	8RB#4	22.47	21.46	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26775	8RB#7	22.48	21.53	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26775	15RB#0	22.45	21.45	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26805	1RB#0	23.61	22.83	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26805	1RB#8	23.65	22.79	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26805	1RB#14	23.65	22.73	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26805	8RB#0	22.58	21.66	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26805	8RB#4	22.54	21.68	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26805	8RB#7	22.60	21.65	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26805	15RB#0	22.61	21.63	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26915	1RB#0	23.75	22.99	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26915	1RB#8	23.80	22.93	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26915	1RB#14	23.81	22.96	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26915	8RB#0	22.77	21.77	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26915	8RB#4	22.81	21.75	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26915	8RB#7	22.80	21.85	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	26915	15RB#0	22.77	21.78	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	27025	1RB#0	23.93	22.76	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	27025	1RB#8	23.95	22.83	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	27025	1RB#14	23.95	22.83	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	27025	8RB#0	22.94	21.92	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	27025	8RB#4	22.93	21.94	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	27025	8RB#7	22.89	21.91	23.0±1.0	22.0±1.0
NTNV	Band26	3MHz	27025	15RB#0	22.89	21.84	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26715	1RB#0	23.39	22.41	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26715	1RB#12	23.49	22.50	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26715	1RB#24	23.39	22.40	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26715	12RB#0	22.44	21.41	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26715	12RB#6	22.42	21.45	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26715	12RB#13	22.36	21.42	23.0±1.0	22.0±1.0



NTNV	Band26	5MHz	26715	25RB#0	22.43	21.47	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26740	1RB#0	23.34	22.55	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26740	1RB#12	23.51	22.70	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26740	1RB#24	23.32	22.53	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26740	12RB#0	22.42	21.44	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26740	12RB#6	22.40	21.46	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26740	12RB#13	22.38	21.42	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26740	25RB#0	22.43	21.45	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26765	1RB#0	23.39	22.45	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26765	1RB#12	23.46	22.49	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26765	1RB#24	23.42	22.37	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26765	12RB#0	22.38	21.45	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26765	12RB#6	22.38	21.38	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26765	12RB#13	22.39	21.41	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26765	25RB#0	22.43	21.51	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26815	1RB#0	23.52	22.49	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26815	1RB#12	23.65	22.62	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26815	1RB#24	23.59	22.56	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26815	12RB#0	22.47	21.53	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26815	12RB#6	22.47	21.50	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26815	12RB#13	22.55	21.58	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26815	25RB#0	22.51	21.52	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26915	1RB#0	23.60	22.80	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26915	1RB#12	23.82	22.99	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26915	1RB#24	23.72	22.94	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26915	12RB#0	22.70	21.70	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26915	12RB#6	22.71	21.76	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26915	12RB#13	22.71	21.74	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	26915	25RB#0	22.74	21.74	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	27015	1RB#0	23.76	22.78	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	27015	1RB#12	23.96	22.93	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	27015	1RB#24	23.84	22.78	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	27015	12RB#0	22.83	21.89	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	27015	12RB#6	22.84	21.90	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	27015	12RB#13	22.76	21.76	23.0±1.0	22.0±1.0
NTNV	Band26	5MHz	27015	25RB#0	22.85	21.87	23.0±1.0	22.0±1.0
NTNV	Band26	10MHz	26740	1RB#0	23.89	23.09	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26740	1RB#24	24.06	23.20	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26740	1RB#49	23.87	22.82	23.5±1.0	22.5±1.0



NTNV	Band26	10MHz	26740	25RB#0	23.01	22.01	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26740	25RB#12	23.01	22.02	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26740	25RB#25	22.97	21.98	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26740	50RB#0	22.98	21.99	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26840	1RB#0	23.48	22.63	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26840	1RB#24	23.75	22.83	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26840	1RB#49	23.63	22.81	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26840	25RB#0	22.58	21.57	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26840	25RB#12	22.60	21.57	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26840	25RB#25	22.72	21.66	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26840	50RB#0	22.64	21.56	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26915	1RB#0	23.60	22.68	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26915	1RB#24	23.85	23.02	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26915	1RB#49	23.77	22.99	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26915	25RB#0	22.84	21.92	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26915	25RB#12	22.85	21.88	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26915	25RB#25	22.82	21.89	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26915	50RB#0	22.84	21.86	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26990	1RB#0	23.73	22.61	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26990	1RB#24	24.01	22.79	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26990	1RB#49	23.82	22.74	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26990	25RB#0	22.81	21.89	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26990	25RB#12	22.85	21.92	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26990	25RB#25	22.70	21.78	23.5±1.0	22.5±1.0
NTNV	Band26	10MHz	26990	50RB#0	22.73	21.75	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	1RB#0	23.73	22.91	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	1RB#38	23.94	23.09	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	1RB#74	23.70	22.90	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	38RB#0	22.99	22.99	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	38RB#18	22.97	23.00	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	38RB#37	22.93	22.96	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	75RB#0	22.96	21.92	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	1RB#0	23.41	22.50	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	1RB#38	23.62	22.75	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	1RB#74	23.63	22.78	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	38RB#0	22.56	22.62	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	38RB#18	22.59	22.58	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	38RB#37	22.59	22.59	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	75RB#0	22.58	21.55	23.5±1.0	22.5±1.0



NTNV	Band26	15MHz	26915	1RB#0	23.42	22.62	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26915	1RB#38	23.74	22.99	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26915	1RB#74	23.66	22.97	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26915	38RB#0	22.76	22.79	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26915	38RB#18	22.73	22.81	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26915	38RB#37	22.78	22.79	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26915	75RB#0	22.75	21.76	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26965	1RB#0	23.56	22.37	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26965	1RB#38	23.86	22.79	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26965	1RB#74	23.71	22.55	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26965	38RB#0	22.76	22.77	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26965	38RB#18	22.76	22.79	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26965	38RB#37	22.74	22.77	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26965	75RB#0	22.75	21.74	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	1RB#0	23.73	22.91	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	1RB#38	23.94	23.09	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	1RB#74	23.70	22.90	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	38RB#0	22.99	22.99	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	38RB#18	22.97	23.00	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	38RB#37	22.93	22.96	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26765	75RB#0	22.96	21.92	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	1RB#0	23.41	22.50	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	1RB#38	23.62	22.75	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	1RB#74	23.63	22.78	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	38RB#0	22.56	22.62	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	38RB#18	22.59	22.58	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	38RB#37	22.59	22.59	23.5±1.0	22.5±1.0
NTNV	Band26	15MHz	26865	75RB#0	22.58	21.55	23.5±1.0	22.5±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band41	5MHz	40365	1RB#0	22.53	21.08	22.0±1.0	21.0±1.0
NTNV	Band41	5MHz	40365	1RB#12	22.57	21.31	22.0±1.0	21.0±1.0
NTNV	Band41	5MHz	40365	1RB#24	22.37	21.32	22.0±1.0	21.0±1.0
NTNV	Band41	5MHz	40365	12RB#0	22.44	21.53	22.0±1.0	21.0±1.0
NTNV	Band41	5MHz	40365	12RB#6	22.36	21.50	22.0±1.0	21.0±1.0
NTNV	Band41	5MHz	40365	12RB#13	22.44	21.67	22.0±1.0	21.0±1.0
NTNV	Band41	5MHz	40365	25RB#0	22.37	20.56	22.0±1.0	21.0±1.0
NTNV	Band41	5MHz	40690	1RB#0	21.62	20.64	22.0±1.0	21.0±1.0

