

FCC SAR EVALUATION REPORT

**In accordance with the requirements of
FCC 47 CFR Part 2(2.1093), ANSI/IEEE C95.1-1992 and
IEEE Std 1528-2013**

Product Name : Android Rugged Tablet

Trademark : SEWOO

Model Name : BPR-10IIA

Family Model : BPR-10IIW, BPR-08A, BPR-08W

FCC ID : WF5-BPR-10IIA

Report No. : N25070102606E

Prepared for

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Product description

Product name Android Rugged Tablet

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Model Name BPR-10IIA

Family Model BPR-10IIW, BPR-08A, BPR-08W

FCC 47 CFR Part 2(2.1093);

ANSI/IEEE C95.1-1992

Standards IEEE Std 1528-2013;

Published RF exposure KDB procedures

This device described above has been tested by Shenzhen NTEK. In accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 and KDB 865664 D01. Testing has shown that this device is capable of compliance with localized specific absorption rate (SAR) specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992. The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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Test Sample Number S2507070122-1#

Date of Test

Date (s) of performance of tests . Jul. 10, 2025 ~ Jul. 23, 2025

Date of Issue Aug.22, 2025

Test Result..... **Pass**Prepared By : Owen Xiao
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※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Aug.22, 2025	Owen Xiao

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1. General Information

1.1. RF exposure limits

(A).Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

(B).Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: **Whole-Body SAR** is averaged over the entire body, **partial-body SAR** is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. **SAR for hands, wrists, feet and ankles** is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

General Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

NOTE
TRUNK LIMIT
1.6 W/kg
APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for BPR-10IIA are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)				Max. Reported SAR (W/kg)
		PCB	DTS	NII	DSS	
1-g Body-Worn (Separation distance of 0mm)		0.94	0.567	0.476	0.210	0.94
1-g Hotspot (Separation distance of 0mm)		0.94	0.567	0.476	0.210	0.94
Max Simultaneous Tx	Body-Worn	1.507	1.507	1.411	1.15	1.507
	Hotspot	1.507	1.507	1.411	1.15	1.507

Note: The Max Simultaneous Tx is calculated based on the same configuration and test position. 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 C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

1.3. EUT Description

Device Information	
Product Name	Android Rugged Tablet
Trade Name	SEWOO
Model Name	BPR-10IIA
Family Model	BPR-10IIW, BPR-08A, BPR-08W
Model Difference	All models have the same circuit and RF module, except for model names.
FCC ID	WF5-BPR-10IIA
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna	PIFA Antenna
Battery	DC 3.8V, 12000mAh, 45.6Wh
Hardware version	P872_MB_V2
Software version	N/A

Device Operating Configurations			
Supporting Mode(s)	GSM 850/1900, WCDMA Band 2/5, LTE Band 2/4/5/7/17/41, NR n41/n78,WLAN 2.4G/5G, Bluetooth, NFC		
Test Modulation	GSM(GMSK/8PSK),WCDMA(QPSK),LTE(QPSK/16QAM),DFT-s-OFDM:PI/2 BPSK/QPSK/16-QAM/64QAM/256QAM,CP-OFDM:QPSK/16-QAM/64QAM/256QAM NFC(ASK),WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 17	704-716	734-746
	LTE Band 41	2496-2690	
	n41	2496-2690	
	n78	3450-3550	
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.3G	5260-5320	
	WLAN 5.8G	5745-5825	
	NFC	13.56MHz	
	Bluetooth	2402-2480	
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
EGPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
Power Class	4, tested with power level 5(GSM 850)		
	1, tested with power level 0(GSM 1900)		
	3, tested with power control "all 1"(WCDMA Band 2)		
	3, tested with power control "all 1"(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		

	3, tested with power control all Max.(LTE Band 17)
	3, tested with power control all Max.(LTE Band 41)
	3, tested with power control all Max.(NR n41)
	3, tested with power control all Max.(NR n78)

1.4. Test specification(s)

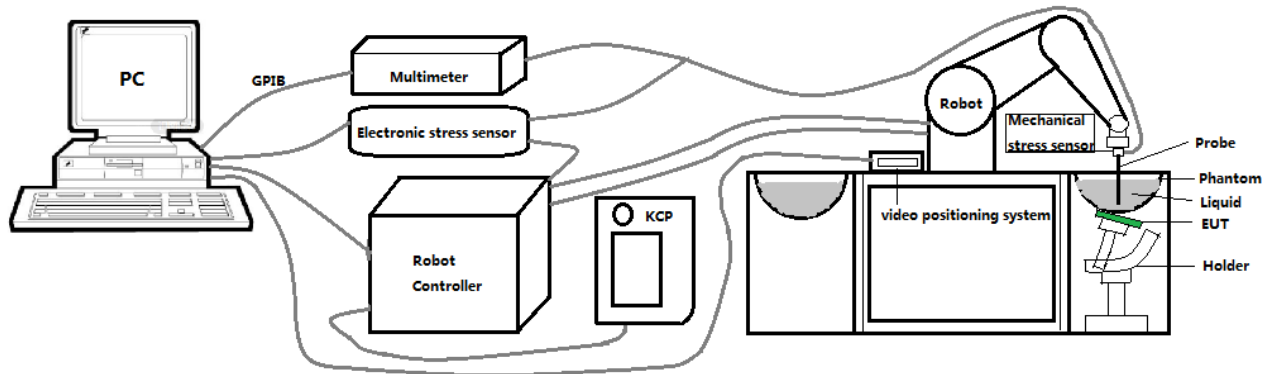
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04;
KDB 865664 D02 RF Exposure Reporting v01r02;
KDB 447498 D01 General RF Exposure Guidance v06;
KDB 248227 D01 802.11 Wi-Fi SAR v02r02;
KDB 941225 D01 3G SAR Procedures v02r01;
KDB 941225 D05 SAR for LTE Devices v01r02;
KDB 616217 D04 SAR for laptop and tablets v01r02

1.5. Ambient Condition

Ambient temperature	20°C – 24°C
Relative Humidity	30% – 70%

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



These measurements were performed with the automated near-field scanning system OPENSAR from SATIMO. The system is based on a high precision robot (working range: 901 mm), which positions the probes with a positional repeatability of better than ± 0.03 mm. The SAR measurements were conducted with dosimetric probe (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation.

The first step of the field measurement is the evaluation of the voltages induced on the probe by the device under test. Probe diode detectors are nonlinear. Below the diode compression point, the output voltage is proportional to the square of the applied E-field; above the diode compression point, it is linear to the applied E-field. The compression point depends on the diode, and a calibration procedure is necessary for each sensor of the probe.

The Keithley multimeter reads the voltage of each sensor and send these three values to the PC. The corresponding E field value is calculated using the probe calibration factors, which are stored in the working directory. This evaluation includes linearization of the diode characteristics. The field calculation is done separately for each sensor. Each component of the E field is displayed on the "Dipole Area Scan Interface" and the total E field is displayed on the "3D Interface"

2.2. Robot

The SATIMO SAR system uses the high precision robots from KUKA. For the 6-axis controller system, the robot controller version (KUKA) from KUKA is used. The KUKA robot series have many features that are important for our application:



- High precision (repeatability ± 0.03 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

2.3. E-Field Probe

This E-field detection probe is composed of three orthogonal dipoles linked to special Schottky diodes with low detection thresholds. The probe allows the measurement of electric fields in liquids such as the one defined in the IEEE and CENELEC standards.

For the measurements the Specific Dosimetric E-Field Probe 0725-EPGO-448 with following specifications is used



- Dynamic range: 0.01-100 W/kg
 - Tip Diameter : 2.5 mm
 - Distance between probe tip and sensor center: 1 mm
 - Distance between sensor center and the inner phantom surface: 2 mm (repeatability better than ± 1 mm).
 - Probe linearity: ± 0.08 dB
 - Axial isotropy: ± 0.01 dB
 - Hemispherical Isotropy: ± 0.01 dB
 - Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
 - Lower detection limit: 8mW/kg
- Angle between probe axis (evaluation axis) and surface normal line: less than 30° .

2.3.1. 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 (Norm X, Norm Y, and Norm Z), the diode compression parameter (DCP) and the conversion factor (Conv F) of the probe are tested. The calibration data can be referred to appendix D of this report.

2.4. SAM phantoms

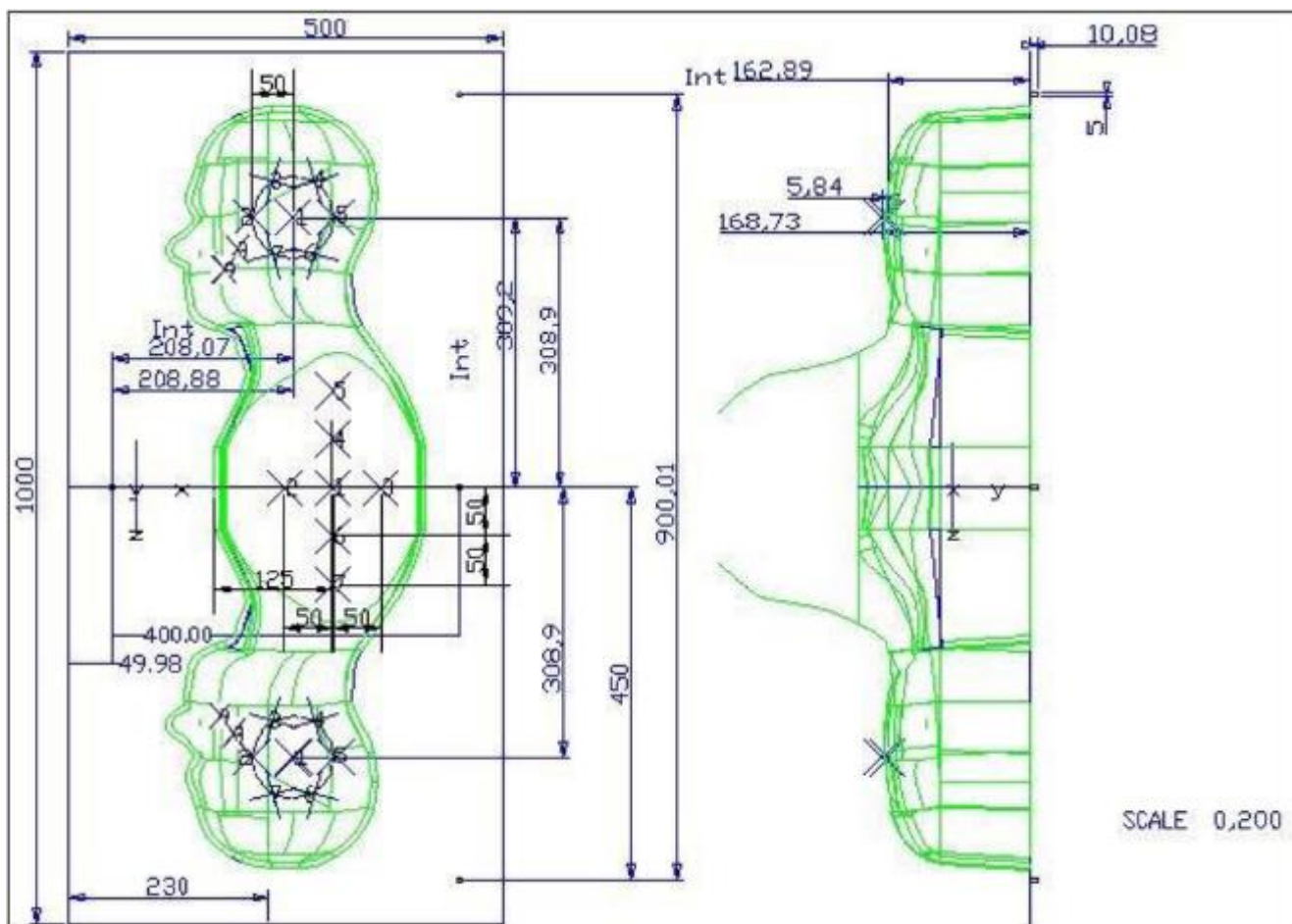
Photo of SAM phantom SN 16/15 SAM119



The SAM phantom is used to measure the SAR relative to people exposed to electro-magnetic field radiated by mobile phones.

2.4.1. Technical Data

Serial Number	Shell thickness	Filling volume	Dimensions	Positionner Material	Permittivity	Loss Tangent
SN 16/15 SAM119	2 mm ±0.2 mm	27 liters	Length:1000 mm Width:500 mm Height:200 mm	Gelcoat with fiberglass	3.4	0.02

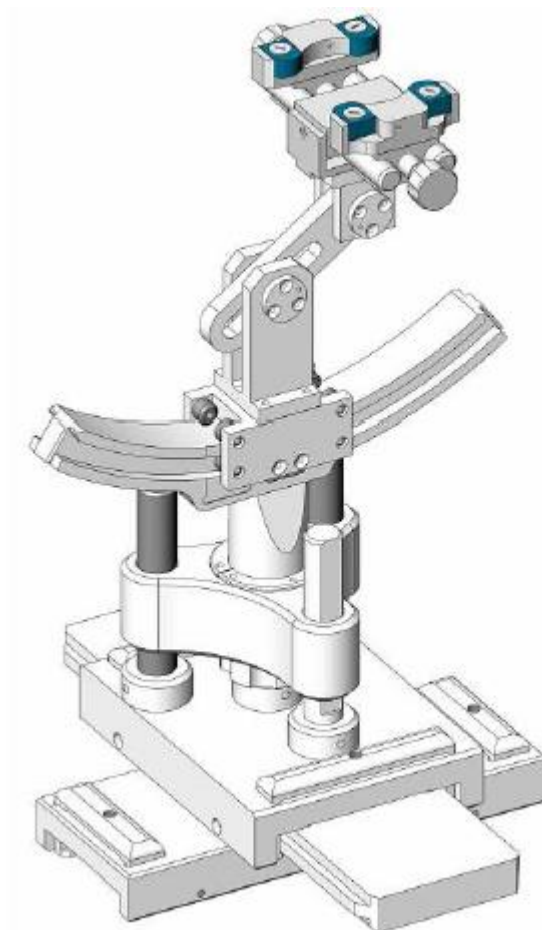


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

The test, based on ultrasonic system, allows measuring the thickness with an accuracy of 10 μm .

2.5. Device Holder

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



Serial Number	Holder Material	Permittivity	Loss Tangent
SN 16/15 MSH100	Delrin	3.7	0.005

2.6. Test Equipment List

This table gives a complete overview of the SAR measurement equipment.

Devices used during the test described are marked ☒

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
☒	MVG	E FIELD PROBE	SSE2	0725-EPGO-448	Apr. 15, 2025	Apr. 14, 2026
☒	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	3500 MHz Dipole	SID3500	SN 09/12 DIP 3G500-360	Oct. 15, 2022	Oct. 14, 2025
☐	MVG	3700 MHz Dipole	SID3700	SN 09/12 DIP 3G/700-361	Oct. 15 2022	Oct. 14 2025
☒	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
☒	MVG	Power Amplifier	N/A	AMPLISAR_28/14_003	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	Nov. 29, 2024	Nov. 28, 2025
☒	R&S	Universal radio communication tester	CMU200	105747	Apr. 17, 2025	Apr. 16, 2026
☒	R&S	Wideband	CMW500	103917	May. 12,	May. 11,

		radio communication tester			2025	2026
☒	Anritsu	4G LTE comprehensive tester	MT8821C	6262192315	July.17 2024	July.16 2025
☒	Anritsu	5G NR comprehensive tester	MT8000A	6262186364	July.17 2024	July.16 2025
☒	HP	Network Analyzer	E5071C	LPS-461	Oct. 15, 2024	Oct. 14, 2025
☒	Agilent	Calibration Kit	85033E	N/A	May. 31, 2024	May. 30, 2027
☒	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	Apr. 17, 2025	Apr. 16, 2026
☒	Agilent	Power sensor	E9301A	LES-413-C	May. 6, 2025	May. 5, 2026
☒	Agilent	Power sensor	E9301A	US39212148	Apr. 17, 2025	Apr. 16, 2026
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Apr. 26, 2024	Apr. 25, 2027
☒	N/A	Thermometer	N/A	LES-085	Mar. 27, 2023	Mar. 26, 2026
☒	MVG	SAM Phantom	SSM2	SN 16/15 SAM119	NCR	NCR
☒	MVG	Device Holder	SMPPD	SN 16/15 MSH100	NCR	NCR

Measurement Software

Manufacturer	Software Name	Software Version
SATIMO	OpenSAR	V5.3.15.11

3. SAR Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/Bluetooth power measurement, use engineering software to configure EUT WLAN/Bluetooth continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/Bluetooth output power.

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/Bluetooth continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix A demonstrates.
- (c) Set scan area, grid size and other setting on the OPENSAR software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band.
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg.

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

3.1. Power Reference

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.

3.2. Area scan & Zoom scan

The area scan is a 2D scan to find the hot spot location on the DUT. The zoom scan is a 3D scan above the hot spot to calculate the 1g and 10g SAR value.

Measurement of the SAR distribution with a grid of 8 to 16 mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8 * 4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

From the scanned SAR distribution, identify the position of the maximum SAR value, in addition identify the positions of any local maxima with SAR values within 2 dB of the maximum value that will not be within the zoom scan of other peaks; additional peaks shall be measured only when the primary peak is within 2 dB of the SAR compliance limit (e.g., 1 W/kg for 1,6 W/kg 1 g limit, or 1,26 W/kg for 2 W/kg, 10 g limit).

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

			$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location			$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$			$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
			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 $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$
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 <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

3.3. Description of interpolation/extrapolation scheme

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimise measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.

3.4. Volumetric Scan

The volumetric scan consists to a full 3D scan over a specific area. This 3D scan is useful form multi Tx SAR measurement. Indeed, it is possible with OpenSAR to add, point by point, several volumetric scan to calculate the SAR value of the combined measurement as it is define in the standard IEEE1528 and IEC62209.

3.5. Power Drift

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In OpenSAR 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 V/m. If the power drifts more than $\pm 5\%$, the SAR will be retested.

4. System Verification Procedure

4.1. Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Ingredients (% of weight)	Head Tissue								
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5000
Water	34.40	34.40	34.40	55.36	55.36	71.88	71.88	71.88	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	17.24
DGBE	0.00	0.00	0.00	13.84	13.84	7.99	7.99	7.99	0.00

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid depth from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm.

Photo of Liquid depth for Head Position	Photo of Liquid depth for Body Position
	

4.1.1. Tissue Dielectric Parameter Check Results

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Delta(%)		Liquid Temp.	Test Date
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)		
Head 750	750	41.90	0.89	40.65	0.89	-2.99	-0.22	21.0 °C	Jul. 13, 2025
Head 835	835	41.50	0.90	42.21	19.97	1.72	2118.44	21.1 °C	Jul. 14, 2025
Head 1800	1800	40.00	1.40	38.94	1.39	-2.65	-0.57	21.6 °C	Jul. 15, 2025
Head 1900	1900	40.00	1.40	38.33	1.45	-4.19	3.21	21.6 °C	Jul. 16, 2025
Head 2450	2450	39.20	1.80	38.47	1.85	-1.87	2.56	21.3 °C	Jul. 17, 2025
Head 2600	2600	39.01	1.96	39.42	1.96	1.06	-0.15	21.6 °C	Jul. 18, 2025
Head 3500	3500	37.93	2.91	37.58	2.81	-0.93	-3.54	21.4 °C	Aug. 19, 2025
Head 5200	5200	36.00	4.66	37.29	4.56	3.59	-2.25	21.9 °C	Jul. 10, 2025
Head 5600	5600	35.50	5.07	35.63	5.00	0.36	-1.34	21.9 °C	Jul. 23, 2025
Head 5800	5800	35.30	5.27	35.90	5.10	1.69	-3.19	21.2 °C	Jul. 12, 2025

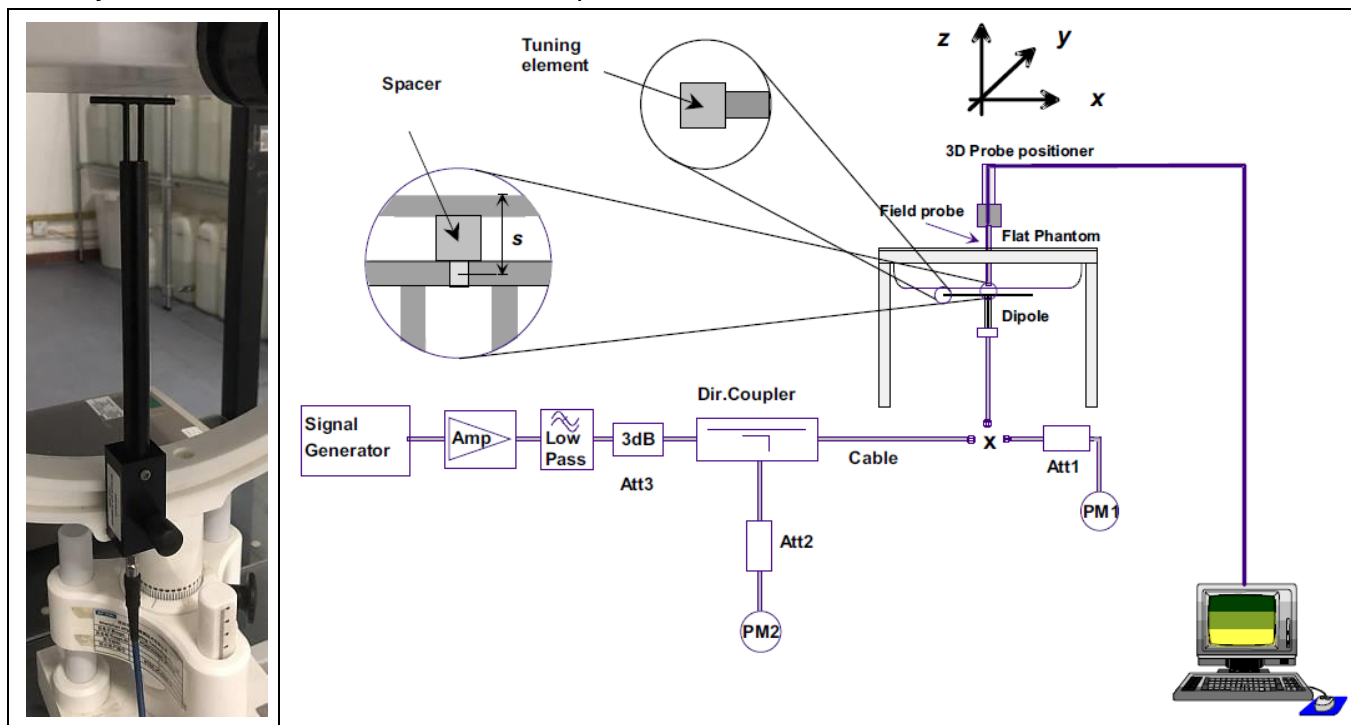
NOTE: 1. The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

2. Tested by : Max Zhou , Jack Peng

4.2. System Verification Procedure

The system verification is performed for verifying the accuracy of the complete measurement system and performance of the software. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. To adjust this power a power meter is used. The power sensor is connected to the cable before the system verification to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the system verification to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

The system verification is shown as below picture:



4.2.1. System Verification Results

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

System Verification	Target SAR (1W)		Measured SAR			Measured SAR		Delta (%)		Liquid Temp.	Test Date
						(Normalized to 1W)					
	1-g (W/Kg)	10-g (W/Kg)	Input Power (mW)	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	1-g (%)	10-g (%)		
750MHz	8.60	5.78	100.00	0.87	0.55	8.70	5.48	1.16	-5.19	21.0 °C	Jul. 13, 2025
835MHz	9.40	6.28	100.00	1.01	0.60	10.09	6.02	7.34	-4.14	21.1 °C	Jul. 14, 2025
1800MHz	37.06	20.01	100.00	4.00	2.02	39.99	20.20	7.91	0.95	21.6 °C	Jul. 15, 2025
1900MHz	39.69	20.92	100.00	4.30	2.12	43.01	21.15	8.36	1.10	21.6 °C	Jul. 16, 2025
2450MHz	50.05	23.80	100.00	5.25	2.20	52.50	21.98	4.90	-7.65	21.3 °C	Jul. 17, 2025
2600MHz	54.16	24.85	100.00	5.52	2.38	55.21	23.83	1.94	-4.10	21.6 °C	Jul. 18, 2025
3500MHz	67.18	24.50	100.00	6.17	2.66	61.71	26.59	-8.14	8.53	21.4 °C	Aug. 19, 2025
5200MHz	162.59	56.21	10.00	1.65	0.62	165.00	61.80	1.48	9.94	21.9 °C	Jul. 10, 2025
5600MHz	179.15	61.01	10.00	1.67	0.57	166.90	56.50	-6.84	-7.39	21.9 °C	Jul. 23, 2025
5800MHz	182.20	61.32	10.00	1.79	0.60	179.00	59.80	-1.76	-2.48	21.2 °C	Jul. 12,

											2025
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NOTE: Tested by : Max Zhou, Jack Peng

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

5.2. SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

6. RF Exposure Positions

6.1. Tablet host platform exposure conditions

Refer to KDB616217 D04, when the modular approach is used, transmitters and modules must be initially tested for standalone operations in generic host conditions according to the following minimum test separation distance and antenna installation requirements for incorporation in the tablet platform. The separation distance required for incorporation in qualified hosts is described in KDB 447498; item 5) of section 4.1 and item 1) of section 5.2.2 etc.

- ≤ 5 mm between the antenna and user for both back surface and edge exposure conditions
- the antennas used by the host must have been tested for equipment approval or qualify for SAR test exclusion
- the antenna polarization, physical orientation, rotation and installation configurations used by the host must have been tested for compliance or qualify for test exclusion
- when the *SAR Test Exclusion Threshold* in KDB 447498 applies, a *test separation distance* of 5 mm is required to determine test exclusion for the tablet platform

The antennas embedded in tablets are typically ≤ 5 mm from the outer housing. The required antenna to user test separation distance is a “not to exceed test” distance required to apply the modular approach. Instead of the typical zero gap tablet edge test requirement between the edge of a tablet and the user, when an antenna has been tested at ≤ 5 mm according to the modular approach it can be incorporated into tablets with at least twice the tested distance from the outer housing of the tablet edge; otherwise, the tablet edge zero gap test requirement applies. When the dedicated host approach is applied, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom.

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune - up (dBm)	128	189	251	Tune - up (dBm)	128	189	251
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8
GSM (GMSK)	23.50	23.24	23.38	23.42	14.47	14.21	14.35	14.39
GPRS(GMSK,1 Tx slot)	23.50	23.25	23.38	23.41	14.47	14.22	14.35	14.38
GPRS(GMSK,2 Tx slot)	27.50	27.29	27.37	27.36	21.48	21.27	21.35	21.34
GPRS(GMSK,3 Tx slot)	29.50	29.17	29.21	29.15	25.24	24.91	24.95	24.89
GPRS(GMSK,4 Tx slot)	28.00	27.94	27.98	27.99	24.99	24.93	24.97	24.98
EGPRS(8PSK,1 Tx slot)	26.50	26.21	25.85	25.92	17.47	17.18	16.82	16.89
EGPRS(8PSK,2 Tx slot)	25.50	25.22	25.34	24.74	19.48	19.20	19.32	18.72
EGPRS(8PSK,3 Tx slot)	23.50	22.89	23.05	22.88	19.24	18.63	18.79	18.62
EGPRS(8PSK,4 Tx slot)	22.00	21.75	21.84	21.54	18.99	18.74	18.83	18.53
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune - up (dBm)	512	661	810	Tune - up (dBm)	512	661	810
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8
GSM (GMSK)	28.50	28.01	27.79	27.77	19.47	18.98	18.76	18.74
GPRS(GMSK,1 Tx slot)	28.00	28.00	27.79	27.77	18.97	18.97	18.76	18.74
GPRS(GMSK,2 Tx slot)	28.00	27.51	27.32	27.26	21.98	21.49	21.30	21.24
GPRS(GMSK,3 Tx slot)	26.50	26.29	26.14	26.07	22.24	22.03	21.88	21.81
GPRS(GMSK,4 Tx slot)	25.50	25.38	25.22	25.13	22.49	22.37	22.21	22.12
EGPRS(8PSK,1 Tx slot)	26.00	25.89	26.00	25.46	16.97	16.86	16.97	16.43
EGPRS(8PSK,2 Tx slot)	25.00	24.71	24.60	24.52	18.98	18.69	18.58	18.50
EGPRS(8PSK,3 Tx slot)	23.00	22.37	22.57	22.71	18.74	18.11	18.31	18.45
EGPRS(8PSK,4 Tx slot)	21.50	21.47	21.38	21.27	18.49	18.46	18.37	18.26

Note: 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

7.2. WCDMA Conducted Power

WCDMA Band 2		Burst-Averaged output Power (dBm)			
Tx Channel	Frequency (MHz)	Tune-up (dBm)	9262	9400	9538
			1852.4	1880	1907.6
RMC12.2K		21.00	20.42	20.57	20.52
HSDPA Sub 1		20.00	19.47	19.64	19.55
HSDPA Sub 2		19.50	19.08	19.19	18.97
HSDPA Sub 3		18.50	17.93	18.10	17.62
HSDPA Sub 4		18.50	17.73	18.20	17.80
HSUPA Sub 1		19.50	18.45	19.39	19.36
HSUPA Sub 2		19.50	19.29	19.42	19.32
HSUPA Sub 3		18.50	17.68	18.09	18.27
HSUPA Sub 4		20.00	19.39	19.57	19.46
HSUPA Sub 5		19.00	17.83	18.83	18.92
WCDMA Band 5		Burst-Averaged output Power (dBm)			
Tx Channel	Frequency (MHz)	Tune-up (dBm)	4132	4182	4233
			826.4	836.4	846.6
RMC12.2K		21.00	20.94	20.68	20.59
HSDPA Sub 1		20.00	19.96	19.68	19.56
HSDPA Sub 2		19.50	19.48	19.24	18.79
HSDPA Sub 3		19.00	18.58	18.30	17.66
HSDPA Sub 4		18.50	18.48	18.29	18.17
HSUPA Sub 1		20.00	18.58	19.52	19.43
HSUPA Sub 2		20.00	19.81	19.65	19.51
HSUPA Sub 3		18.50	18.26	18.46	18.42
HSUPA Sub 4		20.00	19.96	19.71	19.59
HSUPA Sub 5		19.50	18.22	19.04	18.76

7.3. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	23.50	23.02	22.99	23.11
			1	2	23.50	23.03	22.99	23.16
			1	5	23.50	23.03	22.99	23.13
			3	0	23.50	23.07	22.97	23.15
			3	1	23.50	23.08	22.99	23.14

				3	2	23.50	23.07	22.98	23.15
				6	0	22.50	22.06	21.97	22.15
			16QAM	1	0	22.50	22.28	22.21	22.45
				1	2	22.50	22.38	22.32	22.41
				1	5	22.50	22.26	22.23	22.40
				3	0	22.50	22.00	22.03	22.19
				3	1	22.50	22.08	21.95	22.17
				3	2	22.50	22.00	21.97	22.15
				6	0	21.50	21.10	21.06	21.24
				RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
RB Size	RB Offset	18615/1851.5	18900/1880	19185/1908.5					
Band	Band Width	Modulation							
LTE Band 2	3MHz	QPSK	1	0	23.50	23.02	23.00	23.08	
			1	7	23.50	23.01	22.97	23.14	
			1	14	23.50	23.01	22.98	23.13	
			8	0	22.50	22.04	21.96	22.15	
			8	4	22.50	22.02	21.92	22.14	
			8	7	22.50	22.01	21.94	22.12	
			15	0	22.50	22.05	21.97	22.14	
		16QAM	1	0	22.50	22.35	22.31	22.43	
			1	7	22.50	22.25	22.16	22.29	
			1	14	22.50	22.25	22.26	22.35	
			8	0	21.50	21.11	21.04	21.21	
			8	4	21.50	21.05	21.02	21.21	
			8	7	21.50	21.12	21.01	21.18	
			15	0	21.50	21.06	20.99	21.18	
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
RB Size	RB Offset	18625/1852.5	18900/1880	19175/1907.5					
LTE Band 2	5MHz	QPSK	1	0	23.50	23.05	23.03	23.17	
			1	12	23.50	23.09	23.00	23.17	
			1	24	23.50	23.04	22.99	23.18	
			12	0	22.50	22.07	21.99	22.20	
			12	6	22.50	22.05	21.99	22.17	
			12	11	22.50	22.01	21.99	22.05	
			25	0	22.50	22.04	22.01	22.16	
		16QAM	1	0	22.50	22.36	22.27	22.37	
			1	12	22.50	22.42	22.28	22.42	
			1	24	22.50	22.26	22.35	22.43	
			12	0	21.50	21.07	21.06	21.15	

			12	6	21.50	21.00	20.96	21.15
			12	11	21.50	20.96	20.93	21.04
			25	0	21.50	21.05	21.03	21.15
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	23.50	23.05	22.97	23.14
			1	24	23.50	23.04	23.02	23.18
			1	49	23.50	22.96	22.95	23.16
			25	0	22.50	22.12	21.96	22.15
			25	12	22.50	22.03	22.01	22.14
			25	24	22.50	21.99	21.94	22.05
			50	0	22.50	22.08	21.94	22.18
		16QAM	1	0	22.50	22.25	22.27	22.33
			1	24	22.50	22.35	22.27	22.37
			1	49	22.50	22.20	22.25	22.48
			25	0	21.50	21.10	21.02	21.20
			25	12	21.50	20.98	21.01	21.15
			25	24	21.50	21.00	20.92	21.11
			50	0	21.50	21.07	20.99	21.16
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	23.50	22.99	22.87	23.07
			1	37	23.50	23.02	23.01	23.10
			1	74	23.50	22.91	22.91	23.11
			36	0	22.50	22.03	21.97	22.09
			36	18	22.50	22.01	21.98	22.16
			36	37	22.50	22.01	21.89	22.06
			75	0	22.50	22.02	21.91	22.12
		16QAM	1	0	22.50	22.32	22.20	22.32
			1	37	22.50	22.38	22.34	22.41
			1	74	22.50	22.24	22.21	22.46
			36	0	21.50	21.08	20.96	21.07
			36	18	21.50	20.95	20.97	21.15
			36	37	21.50	21.03	20.82	21.04
			75	0	21.50	21.07	20.94	21.06
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900

LTE Band 2	20MHz	QPSK	1	0	23.50	22.93	22.83	22.99
			1	49	23.50	22.99	23.01	23.16
			1	99	23.50	22.83	22.84	23.07
			50	0	22.50	22.06	21.90	22.09
			50	24	22.50	22.02	21.95	22.24
			50	49	22.50	22.06	21.88	22.04
			100	0	22.50	22.13	21.93	22.08
		16QAM	1	0	22.50	22.26	22.01	22.31
			1	49	22.50	22.18	22.19	22.39
			1	99	22.50	22.17	22.15	22.38
			50	0	21.50	21.07	20.92	21.07
			50	24	21.50	21.04	20.97	21.16
			50	49	21.50	21.08	20.81	21.09
			100	0	21.50	21.07	20.92	20.98

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	21.50	21.03	21.09	21.15
			1	2	21.50	21.00	21.09	21.16
			1	5	21.50	21.01	21.09	21.17
			3	0	21.50	21.00	21.10	21.17
			3	1	21.50	21.01	21.07	21.18
			3	2	21.50	21.02	21.12	21.18
			6	0	20.50	20.01	20.09	20.16
		16QAM	1	0	21.00	20.37	20.37	20.48
			1	2	21.00	20.20	20.41	20.48
			1	5	21.00	20.32	20.42	20.54
			3	0	20.50	19.99	20.09	20.21
			3	1	20.50	19.98	20.09	20.17
			3	2	20.50	20.00	20.04	20.24
			6	0	19.50	19.23	19.34	19.44
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	21.50	21.00	21.06	21.10
			1	7	21.50	20.99	21.07	21.17
			1	14	21.50	20.96	21.07	21.15
			8	0	20.50	19.99	20.09	20.16
			8	4	20.50	19.97	20.04	20.11

			8	7	20.50	19.96	20.07	20.14
			15	0	20.50	20.01	20.06	20.13
		16QAM	1	0	20.50	20.25	20.41	20.33
			1	7	20.50	20.23	20.35	20.32
			1	14	20.50	20.20	20.34	20.35
			8	0	19.50	19.20	19.33	19.35
			8	4	19.50	19.15	19.27	19.37
			8	7	19.50	19.19	19.26	19.41
			15	0	19.50	19.14	19.25	19.37
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band 4	5MHz	QPSK	1	0	21.50	21.09	21.13	21.19
			1	12	21.50	21.01	21.12	21.21
			1	24	21.50	21.05	21.16	21.25
			12	0	20.50	20.01	20.17	20.16
			12	6	20.50	20.00	20.06	20.17
			12	11	20.50	19.98	20.09	20.18
			25	0	20.50	20.01	20.12	20.19
		16QAM	1	0	21.00	20.26	20.42	20.37
			1	12	21.00	20.22	20.42	20.38
			1	24	21.00	20.38	20.41	20.52
			12	0	19.50	19.19	19.23	19.36
			12	6	19.50	19.16	19.20	19.35
			12	11	19.50	19.15	19.26	19.32
			25	0	19.50	19.22	19.32	19.33
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	21.50	21.07	21.07	21.14
			1	24	21.50	21.05	21.15	21.12
			1	49	21.50	21.02	21.16	21.19
			25	0	20.50	19.97	20.07	20.09
			25	12	20.50	19.95	20.12	20.12
			25	24	20.50	20.04	20.11	20.08
			50	0	20.50	20.02	20.13	20.13
		16QAM	1	0	20.50	20.28	20.34	20.40
			1	24	20.50	20.32	20.45	20.32
			1	49	20.50	20.41	20.34	20.44
			25	0	19.50	19.10	19.22	19.31

			25	12	19.50	19.11	19.26	19.29
			25	24	19.50	19.27	19.31	19.24
			50	0	19.50	19.16	19.25	19.28
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	21.50	20.99	21.00	21.04
			1	37	21.50	21.01	21.18	21.09
			1	74	21.50	20.99	21.14	21.16
			36	0	20.50	19.94	19.99	20.13
			36	18	20.50	19.94	20.03	20.07
			36	37	20.50	20.06	20.05	20.13
			75	0	20.50	20.04	20.09	20.16
		16QAM	1	0	21.00	20.30	20.19	20.39
			1	37	21.00	20.32	20.39	20.39
			1	74	21.00	20.30	20.43	20.53
			36	0	19.50	19.10	19.20	19.29
			36	18	19.50	19.09	19.21	19.24
			36	37	19.50	19.19	19.22	19.24
			75	0	19.50	19.13	19.22	19.27
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	21.50	20.93	20.91	21.02
			1	49	21.50	21.00	21.11	21.13
			1	99	21.50	21.06	21.12	21.15
			50	0	20.50	19.87	19.95	20.18
			50	24	20.50	20.01	20.14	20.12
			50	49	20.50	20.18	20.09	20.08
			100	0	20.50	20.03	20.00	20.14
		16QAM	1	0	20.50	20.23	20.29	20.36
			1	49	20.50	20.24	20.30	20.46
			1	99	20.50	20.32	20.41	20.48
			50	0	19.50	18.98	19.10	19.30
			50	24	19.50	19.15	19.23	19.31
			50	49	19.50	19.33	19.26	19.26
			100	0	19.50	19.17	19.19	19.28

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB		20407/824.7	20525/836.5	20643/848.3

				Offset				
LTE Band 5	1.4MHz	QPSK	1	0	21.50	20.81	21.01	20.85
			1	2	21.50	20.84	20.98	20.84
			1	5	21.50	20.81	20.98	20.79
			3	0	21.00	20.80	21.00	20.87
			3	1	21.00	20.83	20.97	20.83
			3	2	21.00	20.83	20.97	20.84
			6	0	20.00	19.84	19.98	19.82
		16QAM	1	0	20.50	20.06	20.30	20.11
			1	2	20.50	19.99	20.26	20.04
			1	5	20.50	20.02	20.21	20.06
			3	0	20.00	19.78	19.94	19.88
			3	1	20.00	19.77	19.90	19.76
			3	2	20.00	19.82	19.98	19.79
			6	0	19.50	18.90	19.07	18.88
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	21.50	20.80	20.95	20.87
			1	7	21.50	20.82	21.02	20.83
			1	14	21.50	20.80	20.94	20.75
			8	0	20.00	19.79	19.95	19.84
			8	4	20.00	19.84	19.99	19.82
			8	7	20.00	19.80	19.96	19.80
			15	0	20.00	19.82	19.96	19.85
		16QAM	1	0	20.50	20.09	20.18	20.14
			1	7	20.50	20.01	20.25	20.17
			1	14	20.50	20.09	20.29	20.08
			8	0	19.50	18.85	19.06	18.95
			8	4	19.50	18.88	19.04	18.88
			8	7	19.50	18.89	18.99	18.89
			15	0	19.00	18.82	19.00	18.83
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	21.50	20.84	20.97	20.97
			1	12	21.50	20.88	21.01	20.91
			1	24	21.50	20.96	21.00	20.85
			12	0	20.50	19.81	20.04	19.89
			12	6	20.50	19.88	20.00	19.86

			12	11	20.50	19.89	19.90	19.89
			25	0	20.00	19.86	19.99	19.87
		16QAM	1	0	20.50	20.14	20.27	20.28
			1	12	20.50	20.15	20.20	20.06
			1	24	20.50	20.29	20.36	20.06
			12	0	19.50	18.81	19.03	18.93
			12	6	19.50	18.83	18.94	18.87
			12	11	19.50	18.85	18.94	18.81
			25	0	19.50	18.90	19.04	18.95
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band 5	10MHz	QPSK	1	0	21.50	20.82	20.97	21.02
			1	24	21.50	20.95	21.02	20.98
			1	49	21.50	20.94	20.96	20.78
			25	0	20.50	19.75	20.04	20.06
			25	12	20.50	19.90	19.97	19.92
			25	24	20.50	19.96	19.86	19.90
			50	0	20.50	19.91	20.00	20.04
		16QAM	1	0	20.50	20.16	20.30	20.32
			1	24	20.50	20.27	20.29	20.19
			1	49	20.50	20.18	20.26	20.01
			25	0	19.50	18.78	19.02	19.13
			25	12	19.50	18.87	19.07	19.02
			25	24	19.50	18.93	18.92	18.97
			50	0	19.50	18.87	18.99	19.03

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band 7	5MHz	QPSK	1	0	21.50	21.21	21.11	21.27
			1	12	21.50	21.11	21.18	21.33
			1	24	21.50	21.15	21.19	21.36
			12	0	20.50	20.22	20.10	20.34
			12	6	20.50	20.12	20.09	20.35
			12	11	20.50	20.13	20.11	20.35
			25	0	20.50	20.18	20.07	20.33
		16QAM	1	0	21.00	20.52	20.40	20.62
			1	12	21.00	20.49	20.46	20.58
			1	24	21.00	20.48	20.41	20.69

			12	0	19.50	19.14	19.14	19.34
			12	6	19.50	19.12	19.06	19.34
			12	11	19.50	19.10	19.00	19.28
			25	0	19.50	19.16	19.10	19.36
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	21.50	21.22	21.09	21.15
			1	24	21.50	21.14	21.14	21.27
			1	49	21.50	21.17	21.19	21.32
			25	0	20.50	20.09	20.13	20.25
			25	12	20.50	20.18	20.13	20.28
			25	24	20.50	20.12	20.09	20.32
			50	0	20.50	20.17	20.19	20.32
		16QAM	1	0	21.00	20.48	20.36	20.38
			1	24	21.00	20.50	20.35	20.61
			1	49	21.00	20.36	20.43	20.63
			25	0	19.50	19.10	19.13	19.22
			25	12	19.50	19.13	19.11	19.27
			25	24	19.50	19.12	19.08	19.34
			50	0	19.50	19.15	19.14	19.27
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE Band 7	15MHz	QPSK	1	0	21.50	21.14	21.03	20.97
			1	37	21.50	21.20	21.17	21.20
			1	74	21.50	21.13	21.13	21.26
			36	0	20.50	20.06	20.08	20.12
			36	18	20.50	20.10	20.13	20.24
			36	37	20.50	20.20	20.11	20.28
			75	0	20.50	20.12	20.08	20.25
		16QAM	1	0	21.00	20.42	20.33	20.29
			1	37	21.00	20.48	20.39	20.53
			1	74	21.00	20.41	20.45	20.56
			36	0	19.50	19.06	19.05	19.10
			36	18	19.50	19.10	19.11	19.21
			36	37	19.50	19.20	19.12	19.27
			75	0	19.50	19.12	19.05	19.21
Band	Band	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

	Width		RB Size	RB Offset	(dBm)	20850/2510	21100/2535	21350/2560
LTE Band 7	20MHz	QPSK	1	0	21.50	21.12	21.00	21.01
			1	49	21.50	21.17	21.12	21.14
			1	99	21.50	20.93	21.06	21.21
			50	0	20.50	20.11	20.14	20.07
			50	24	20.50	20.15	20.18	20.15
			50	49	20.50	20.17	20.14	20.27
			100	0	20.50	20.13	20.07	20.18
		16QAM	1	0	21.00	20.41	20.17	20.34
			1	49	21.00	20.55	20.40	20.46
			1	99	21.00	20.29	20.28	20.44
			50	0	19.50	19.09	19.12	19.09
			50	24	19.50	19.11	19.09	19.12
			50	49	19.50	19.15	19.12	19.20
			100	0	19.50	19.12	19.04	19.14

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band 17	5MHz	QPSK	1	0	23.50	23.16	23.08	23.06
			1	12	23.50	23.18	23.01	23.01
			1	24	23.50	23.07	23.03	23.04
			12	0	22.50	22.21	22.21	22.19
			12	6	22.50	22.13	22.20	22.18
			12	11	22.50	22.15	22.18	22.11
			25	0	22.50	22.16	22.17	22.16
		16QAM	1	0	23.00	22.50	22.49	22.44
			1	12	23.00	22.43	22.34	22.42
			1	24	23.00	22.37	22.33	22.32
			12	0	21.50	21.19	21.20	21.16
			12	6	21.50	21.15	21.14	21.19
			12	11	21.50	21.15	21.13	21.15
			25	0	21.50	21.18	21.20	21.18
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	23.50	23.14	23.11	23.15
			1	24	23.50	23.00	23.03	23.04
			1	49	23.50	22.98	22.99	22.95

			25	0	22.50	22.14	22.18	22.21
			25	12	22.50	22.19	22.19	22.16
			25	24	22.50	22.14	22.11	22.05
			50	0	22.50	22.17	22.20	22.19
		16QAM	1	0	23.00	22.50	22.44	22.42
			1	24	23.00	22.51	22.38	22.34
			1	49	23.00	22.32	22.31	22.36
			25	0	21.50	21.17	21.20	21.25
			25	12	21.50	21.22	21.21	21.18
			25	24	21.50	21.17	21.18	21.12
			50	0	21.50	21.15	21.16	21.13

Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
		RB Size	RB Offset		39675/249 8.5	40140/25 45	40620/25 95	40900/26 21	41215/265 2.5
5MHz	QPSK	1	0	26.00	25.6	24.54	25.75	23.24	25.83
		1	12	26.00	25.59	25.71	25.74	24.3	25.79
		1	24	26.00	25.63	25.08	25.73	23.83	25.78
		12	0	25.00	24.52	22.04	24.77	23.35	24.8
		12	6	25.00	24.57	23.98	24.69	23.31	24.77
		12	11	25.00	24.53	23.61	24.71	22.55	24.75
		25	0	25.00	24.55	23.15	24.73	23.42	24.79
	16QAM	1	0	25.00	24.65	22.67	24.91	23.53	24.98
		1	12	25.00	24.67	22.71	24.91	23.95	24.95
		1	24	25.00	24.71	24.1	24.92	23.85	24.92
		12	0	24.00	23.54	21.83	23.79	23.58	23.84
		12	6	24.00	23.56	23.55	23.73	22.13	23.78
		12	11	24.00	23.54	21.49	23.72	21.76	23.77
		25	0	24.00	23.6	23.36	23.78	22.89	23.84
Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
		RB Size	RB Offset		40090/254 0	40140/25 45	40620/25 95	40900/26 21	41565/268 7.5
10MH	QPSK	1	0	26.00	25.48	25.26	25.74	23.58	25.77

z		1	24	26.00	25.56	25.25	25.76	25.04	25.84
		1	49	26.00	25.53	23.01	25.72	24.29	25.74
		25	0	25.00	24.54	24.77	24.77	23.58	24.83
		25	12	25.00	24.57	23.86	24.72	24.76	24.78
		25	24	25.00	24.58	22.99	24.72	24.79	24.76
		50	0	25.00	24.6	24.12	24.82	23.98	24.83
	16QAM	1	0	25.00	24.68	23.7	24.92	23.29	24.96
		1	24	25.00	24.75	24.34	24.94	23.23	25
		1	49	25.00	24.72	23.84	24.91	24.88	24.9
		25	0	24.00	23.59	22.34	23.85	23.55	23.88
		25	12	24.00	23.61	22.79	23.77	22.45	23.81
		25	24	24.00	23.64	22.02	23.77	22.46	23.81
		50	0	24.00	23.61	22.73	23.83	22.95	23.86
Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
		RB Size	RB Offset		39725/250 3.5	40140/25 45	40620/25 95	40900/26 21	41515/268 2.5
15MHz z	QPSK	1	0	26.00	25.39	25.01	25.67	25.54	25.59
		1	37	26.00	25.54	24.63	25.72	24.74	25.63
		1	74	26.00	25.45	25.61	25.69	24.98	25.57
		36	0	25.00	24.53	24.57	24.75	24.58	24.68
		36	18	25.00	24.55	23.31	24.71	23.35	24.66
		36	37	25.00	24.57	22.44	24.69	22.72	24.62
		75	0	25.00	24.57	22.87	24.76	23.15	24.71
	16QAM	1	0	25.00	24.63	24.61	24.9	22.87	24.82
		1	37	25.00	24.71	24.11	24.92	22.5	24.83
		1	74	25.00	24.68	22.88	24.86	23.84	24.76
		36	0	24.00	23.5	22.36	23.75	22.95	23.69
		36	18	24.00	23.55	23.51	23.71	22.42	23.65
		36	37	24.00	23.55	22.43	23.7	23.22	23.63
		75	0	24.00	23.55	22.22	23.72	23.5	23.69
Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
		RB Size	RB Offset		39750/250 6	40140/25 45	40620/25 95	40900/26 21	41490/268 0

20MHz z	QPSK	1	0	26.00	25.41	24.99	25.69	24.76	25.59
		1	49	26.00	25.56	25.38	25.74	24.9	25.68
		1	99	26.00	25.4	23.19	25.64	24.9	25.52
		50	0	25.00	24.55	23.01	24.8	23.55	24.73
		50	24	25.00	24.61	24.37	24.78	24.53	24.7
		50	49	25.00	24.59	24.34	24.72	23.12	24.63
		100	0	25.00	24.54	23.76	24.77	23.84	24.68
	16QAM	1	0	25.00	24.59	22.52	24.81	23.88	24.76
		1	49	25.00	24.73	24	24.91	24.73	24.83
		1	99	25.00	24.59	22.44	24.81	24.56	24.69
		50	0	24.00	23.59	21.32	23.84	23.8	23.76
		50	24	24.00	23.64	23.83	23.85	21.58	23.74
		50	49	24.00	23.63	22.34	23.75	23.21	23.66
		100	0	24.00	23.56	23.54	23.79	22.9	23.68

7.4. Output Power Results Of NR

Band Width	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Tune-up	Power (dBm)
						(dBm)	
n41	30	10	500202	24@0	DFT_BPSK	23.00	22.72
n41	30	10	500202	12@6	DFT_BPSK	24.00	23.52
n41	30	10	500202	1@1	DFT_BPSK	23.50	23.40
n41	30	10	500202	1@22	DFT_BPSK	23.50	23.37
n41	30	10	500202	24@0	DFT_QPSK	23.00	22.73
n41	30	10	500202	12@6	DFT_QPSK	24.00	23.55
n41	30	10	500202	1@1	DFT_QPSK	23.50	23.43
n41	30	10	500202	1@22	DFT_QPSK	23.50	23.40
n41	30	10	500202	24@0	DFT_16QAM	22.00	21.70
n41	30	10	500202	12@6	DFT_16QAM	23.00	22.80
n41	30	10	500202	1@1	DFT_16QAM	23.00	22.63
n41	30	10	500202	1@22	DFT_16QAM	23.00	22.60
n41	30	10	500202	24@0	DFT_64QAM	21.50	21.20
n41	30	10	500202	12@6	DFT_64QAM	21.50	21.20
n41	30	10	500202	1@1	DFT_64QAM	21.00	20.93
n41	30	10	500202	1@22	DFT_64QAM	21.00	20.90
n41	30	10	500202	24@0	DFT_256QAM	19.50	19.15
n41	30	10	500202	12@6	DFT_256QAM	19.50	19.24
n41	30	10	500202	1@1	DFT_256QAM	19.50	19.19
n41	30	10	500202	1@22	DFT_256QAM	19.50	19.17

n41	30	10	500202	24@0	CP_QPSK	21.00	20.72
n41	30	10	500202	12@6	CP_QPSK	22.50	22.21
n41	30	10	500202	1@1	CP_QPSK	22.00	21.95
n41	30	10	500202	1@22	CP_QPSK	22.00	21.99
n41	30	10	500202	24@0	CP_16QAM	21.00	20.70
n41	30	10	500202	12@6	CP_16QAM	22.00	21.68
n41	30	10	500202	1@1	CP_16QAM	22.00	21.59
n41	30	10	500202	1@22	CP_16QAM	22.00	21.60
n41	30	10	500202	24@0	CP_64QAM	20.50	20.19
n41	30	10	500202	12@6	CP_64QAM	20.50	20.17
n41	30	10	500202	1@1	CP_64QAM	20.00	19.97
n41	30	10	500202	1@22	CP_64QAM	20.00	19.95
n41	30	10	500202	24@0	CP_256QAM	17.50	17.11
n41	30	10	500202	12@6	CP_256QAM	17.50	17.18
n41	30	10	500202	1@1	CP_256QAM	17.50	17.19
n41	30	10	500202	1@22	CP_256QAM	17.50	17.19
n41	30	10	518598	24@0	DFT_BPSK	23.50	23.08
n41	30	10	518598	12@6	DFT_BPSK	24.00	23.57
n41	30	10	518598	1@1	DFT_BPSK	23.50	23.47
n41	30	10	518598	1@22	DFT_BPSK	24.00	23.54
n41	30	10	518598	24@0	DFT_QPSK	23.00	22.77
n41	30	10	518598	12@6	DFT_QPSK	24.00	23.58
n41	30	10	518598	1@1	DFT_QPSK	23.50	23.49
n41	30	10	518598	1@22	DFT_QPSK	24.00	23.57
n41	30	10	518598	24@0	DFT_16QAM	22.00	21.79
n41	30	10	518598	12@6	DFT_16QAM	23.00	22.87
n41	30	10	518598	1@1	DFT_16QAM	23.00	22.67
n41	30	10	518598	1@22	DFT_16QAM	23.00	22.75
n41	30	10	518598	24@0	DFT_64QAM	21.50	21.26
n41	30	10	518598	12@6	DFT_64QAM	21.50	21.31
n41	30	10	518598	1@1	DFT_64QAM	21.00	20.95
n41	30	10	518598	1@22	DFT_64QAM	21.50	21.04
n41	30	10	518598	24@0	DFT_256QAM	19.50	19.24
n41	30	10	518598	12@6	DFT_256QAM	19.50	19.34
n41	30	10	518598	1@1	DFT_256QAM	19.50	19.30
n41	30	10	518598	1@22	DFT_256QAM	19.50	19.35
n41	30	10	518598	24@0	CP_QPSK	21.00	20.77
n41	30	10	518598	12@6	CP_QPSK	22.50	22.33
n41	30	10	518598	1@1	CP_QPSK	22.50	22.11

n41	30	10	518598	1@22	CP_QPSK	22.50	22.18
n41	30	10	518598	24@0	CP_16QAM	21.00	20.78
n41	30	10	518598	12@6	CP_16QAM	22.00	21.78
n41	30	10	518598	1@1	CP_16QAM	22.00	21.74
n41	30	10	518598	1@22	CP_16QAM	22.00	21.79
n41	30	10	518598	24@0	CP_64QAM	20.50	20.26
n41	30	10	518598	12@6	CP_64QAM	20.50	20.28
n41	30	10	518598	1@1	CP_64QAM	20.50	20.04
n41	30	10	518598	1@22	CP_64QAM	20.50	20.12
n41	30	10	518598	24@0	CP_256QAM	17.50	17.19
n41	30	10	518598	12@6	CP_256QAM	17.50	17.28
n41	30	10	518598	1@1	CP_256QAM	17.50	17.29
n41	30	10	518598	1@22	CP_256QAM	17.50	17.34
n41	30	10	537000	24@0	DFT_BPSK	23.50	23.20
n41	30	10	537000	12@6	DFT_BPSK	24.00	23.53
n41	30	10	537000	1@1	DFT_BPSK	23.50	23.42
n41	30	10	537000	1@22	DFT_BPSK	23.50	23.44
n41	30	10	537000	24@0	DFT_QPSK	23.00	22.72
n41	30	10	537000	12@6	DFT_QPSK	24.00	23.54
n41	30	10	537000	1@1	DFT_QPSK	23.50	23.46
n41	30	10	537000	1@22	DFT_QPSK	23.50	23.50
n41	30	10	537000	24@0	DFT_16QAM	22.00	21.72
n41	30	10	537000	12@6	DFT_16QAM	23.00	22.82
n41	30	10	537000	1@1	DFT_16QAM	23.00	22.64
n41	30	10	537000	1@22	DFT_16QAM	23.00	22.66
n41	30	10	537000	24@0	DFT_64QAM	21.50	21.25
n41	30	10	537000	12@6	DFT_64QAM	21.50	21.22
n41	30	10	537000	1@1	DFT_64QAM	21.00	20.92
n41	30	10	537000	1@22	DFT_64QAM	21.00	20.95
n41	30	10	537000	24@0	DFT_256QAM	19.50	19.21
n41	30	10	537000	12@6	DFT_256QAM	19.50	19.29
n41	30	10	537000	1@1	DFT_256QAM	19.50	19.24
n41	30	10	537000	1@22	DFT_256QAM	19.50	19.26
n41	30	10	537000	24@0	CP_QPSK	21.00	20.73
n41	30	10	537000	12@6	CP_QPSK	22.50	22.25
n41	30	10	537000	1@1	CP_QPSK	22.50	22.03
n41	30	10	537000	1@22	CP_QPSK	22.50	22.05
n41	30	10	537000	24@0	CP_16QAM	21.00	20.73
n41	30	10	537000	12@6	CP_16QAM	22.00	21.72

n41	30	10	537000	1@1	CP_16QAM	22.00	21.64
n41	30	10	537000	1@22	CP_16QAM	22.00	21.65
n41	30	10	537000	24@0	CP_64QAM	20.50	20.21
n41	30	10	537000	12@6	CP_64QAM	20.50	20.25
n41	30	10	537000	1@1	CP_64QAM	20.50	20.02
n41	30	10	537000	1@22	CP_64QAM	20.50	20.05
n41	30	10	537000	24@0	CP_256QAM	17.50	17.25
n41	30	10	537000	12@6	CP_256QAM	17.50	17.28
n41	30	10	537000	1@1	CP_256QAM	17.50	17.29
n41	30	10	537000	1@22	CP_256QAM	17.50	17.30
n41	30	15	500700	36@0	DFT_BPSK	23.00	22.99
n41	30	15	500700	18@9	DFT_BPSK	24.00	23.51
n41	30	15	500700	1@1	DFT_BPSK	23.50	23.39
n41	30	15	500700	1@36	DFT_BPSK	23.50	23.38
n41	30	15	500700	36@0	DFT_QPSK	23.00	22.70
n41	30	15	500700	18@9	DFT_QPSK	24.00	23.53
n41	30	15	500700	1@1	DFT_QPSK	23.50	23.50
n41	30	15	500700	1@36	DFT_QPSK	23.50	23.49
n41	30	15	500700	36@0	DFT_16QAM	22.00	21.72
n41	30	15	500700	18@9	DFT_16QAM	23.00	22.69
n41	30	15	500700	1@1	DFT_16QAM	22.50	22.46
n41	30	15	500700	1@36	DFT_16QAM	22.50	22.44
n41	30	15	500700	36@0	DFT_64QAM	21.50	21.20
n41	30	15	500700	18@9	DFT_64QAM	21.50	21.14
n41	30	15	500700	1@1	DFT_64QAM	21.50	21.25
n41	30	15	500700	1@36	DFT_64QAM	21.50	21.08
n41	30	15	500700	36@0	DFT_256QAM	19.50	19.18
n41	30	15	500700	18@9	DFT_256QAM	19.50	19.17
n41	30	15	500700	1@1	DFT_256QAM	19.50	19.18
n41	30	15	500700	1@36	DFT_256QAM	19.50	19.17
n41	30	15	500700	38@0	CP_QPSK	21.00	20.63
n41	30	15	500700	19@9	CP_QPSK	22.50	22.26
n41	30	15	500700	1@1	CP_QPSK	22.00	21.96
n41	30	15	500700	1@36	CP_QPSK	22.50	22.01
n41	30	15	500700	38@0	CP_16QAM	21.00	20.64
n41	30	15	500700	19@9	CP_16QAM	22.00	21.59
n41	30	15	500700	1@1	CP_16QAM	22.00	21.63
n41	30	15	500700	1@36	CP_16QAM	22.00	21.61
n41	30	15	500700	38@0	CP_64QAM	20.50	20.21

n41	30	15	500700	19@9	CP_64QAM	20.50	20.17
n41	30	15	500700	1@1	CP_64QAM	20.00	19.92
n41	30	15	500700	1@36	CP_64QAM	20.00	19.97
n41	30	15	500700	38@0	CP_256QAM	17.50	17.18
n41	30	15	500700	19@9	CP_256QAM	17.50	17.17
n41	30	15	500700	1@1	CP_256QAM	17.50	17.18
n41	30	15	500700	1@36	CP_256QAM	17.50	17.14
n41	30	15	518598	36@0	DFT_BPSK	23.50	23.15
n41	30	15	518598	18@9	DFT_BPSK	24.00	23.65
n41	30	15	518598	1@1	DFT_BPSK	23.50	23.45
n41	30	15	518598	1@36	DFT_BPSK	24.00	23.57
n41	30	15	518598	36@0	DFT_QPSK	23.00	22.82
n41	30	15	518598	18@9	DFT_QPSK	24.00	23.65
n41	30	15	518598	1@1	DFT_QPSK	24.00	23.53
n41	30	15	518598	1@36	DFT_QPSK	24.00	23.63
n41	30	15	518598	36@0	DFT_16QAM	22.00	21.88
n41	30	15	518598	18@9	DFT_16QAM	23.00	22.77
n41	30	15	518598	1@1	DFT_16QAM	23.00	22.66
n41	30	15	518598	1@36	DFT_16QAM	23.00	22.77
n41	30	15	518598	36@0	DFT_64QAM	21.50	21.33
n41	30	15	518598	18@9	DFT_64QAM	21.50	21.35
n41	30	15	518598	1@1	DFT_64QAM	21.50	21.02
n41	30	15	518598	1@36	DFT_64QAM	21.50	21.09
n41	30	15	518598	36@0	DFT_256QAM	19.50	19.31
n41	30	15	518598	18@9	DFT_256QAM	19.50	19.31
n41	30	15	518598	1@1	DFT_256QAM	19.50	19.25
n41	30	15	518598	1@36	DFT_256QAM	19.50	19.36
n41	30	15	518598	38@0	CP_QPSK	21.00	20.78
n41	30	15	518598	19@9	CP_QPSK	22.50	22.37
n41	30	15	518598	1@1	CP_QPSK	22.50	22.09
n41	30	15	518598	1@36	CP_QPSK	22.50	22.20
n41	30	15	518598	38@0	CP_16QAM	21.00	20.78
n41	30	15	518598	19@9	CP_16QAM	22.00	21.71
n41	30	15	518598	1@1	CP_16QAM	22.00	21.70
n41	30	15	518598	1@36	CP_16QAM	22.00	21.79
n41	30	15	518598	38@0	CP_64QAM	20.50	20.36
n41	30	15	518598	19@9	CP_64QAM	20.50	20.28
n41	30	15	518598	1@1	CP_64QAM	20.50	20.07
n41	30	15	518598	1@36	CP_64QAM	20.50	20.11

n41	30	15	518598	38@0	CP_256QAM	17.50	17.32
n41	30	15	518598	19@9	CP_256QAM	17.50	17.30
n41	30	15	518598	1@1	CP_256QAM	17.50	17.26
n41	30	15	518598	1@36	CP_256QAM	17.50	17.33
n41	30	15	536496	36@0	DFT_BPSK	23.50	23.23
n41	30	15	536496	18@9	DFT_BPSK	24.00	23.52
n41	30	15	536496	1@1	DFT_BPSK	23.50	23.47
n41	30	15	536496	1@36	DFT_BPSK	23.50	23.46
n41	30	15	536496	36@0	DFT_QPSK	23.00	22.73
n41	30	15	536496	18@9	DFT_QPSK	24.00	23.56
n41	30	15	536496	1@1	DFT_QPSK	24.00	23.52
n41	30	15	536496	1@36	DFT_QPSK	24.00	23.51
n41	30	15	536496	36@0	DFT_16QAM	22.00	21.79
n41	30	15	536496	18@9	DFT_16QAM	23.00	22.68
n41	30	15	536496	1@1	DFT_16QAM	23.00	22.67
n41	30	15	536496	1@36	DFT_16QAM	23.00	22.67
n41	30	15	536496	36@0	DFT_64QAM	21.50	21.24
n41	30	15	536496	18@9	DFT_64QAM	21.50	21.22
n41	30	15	536496	1@1	DFT_64QAM	21.00	20.91
n41	30	15	536496	1@36	DFT_64QAM	21.00	20.94
n41	30	15	536496	36@0	DFT_256QAM	19.50	19.23
n41	30	15	536496	18@9	DFT_256QAM	19.50	19.23
n41	30	15	536496	1@1	DFT_256QAM	19.50	19.29
n41	30	15	536496	1@36	DFT_256QAM	19.50	19.27
n41	30	15	536496	38@0	CP_QPSK	21.00	20.67
n41	30	15	536496	19@9	CP_QPSK	22.50	22.28
n41	30	15	536496	1@1	CP_QPSK	22.50	22.06
n41	30	15	536496	1@36	CP_QPSK	22.50	22.04
n41	30	15	536496	38@0	CP_16QAM	21.00	20.70
n41	30	15	536496	19@9	CP_16QAM	22.00	21.63
n41	30	15	536496	1@1	CP_16QAM	22.00	21.67
n41	30	15	536496	1@36	CP_16QAM	22.00	21.66
n41	30	15	536496	38@0	CP_64QAM	20.50	20.25
n41	30	15	536496	19@9	CP_64QAM	20.50	20.21
n41	30	15	536496	1@1	CP_64QAM	20.00	19.96
n41	30	15	536496	1@36	CP_64QAM	20.00	19.99
n41	30	15	536496	38@0	CP_256QAM	17.50	17.26
n41	30	15	536496	19@9	CP_256QAM	17.50	17.24
n41	30	15	536496	1@1	CP_256QAM	17.50	17.23

n41	30	15	536496	1@36	CP_256QAM	17.50	17.29
n41	30	20	501204	50@0	DFT_BPSK	23.00	22.97
n41	30	20	501204	25@12	DFT_BPSK	24.00	23.51
n41	30	20	501204	1@1	DFT_BPSK	23.50	23.24
n41	30	20	501204	1@49	DFT_BPSK	23.50	23.30
n41	30	20	501204	50@0	DFT_QPSK	23.00	22.64
n41	30	20	501204	25@12	DFT_QPSK	24.00	23.54
n41	30	20	501204	1@1	DFT_QPSK	23.50	23.32
n41	30	20	501204	1@49	DFT_QPSK	23.50	23.38
n41	30	20	501204	50@0	DFT_16QAM	22.00	21.67
n41	30	20	501204	25@12	DFT_16QAM	23.00	22.73
n41	30	20	501204	1@1	DFT_16QAM	22.50	22.44
n41	30	20	501204	1@49	DFT_16QAM	23.00	22.52
n41	30	20	501204	50@0	DFT_64QAM	21.50	21.17
n41	30	20	501204	25@12	DFT_64QAM	21.50	21.19
n41	30	20	501204	1@1	DFT_64QAM	21.00	20.78
n41	30	20	501204	1@49	DFT_64QAM	21.00	20.85
n41	30	20	501204	50@0	DFT_256QAM	19.50	19.10
n41	30	20	501204	25@12	DFT_256QAM	19.50	19.16
n41	30	20	501204	1@1	DFT_256QAM	19.50	19.11
n41	30	20	501204	1@49	DFT_256QAM	19.50	19.13
n41	30	20	501204	51@0	CP_QPSK	21.00	20.62
n41	30	20	501204	25@12	CP_QPSK	22.50	22.21
n41	30	20	501204	1@1	CP_QPSK	22.00	21.81
n41	30	20	501204	1@49	CP_QPSK	22.00	21.93
n41	30	20	501204	51@0	CP_16QAM	21.00	20.63
n41	30	20	501204	25@12	CP_16QAM	22.00	21.71
n41	30	20	501204	1@1	CP_16QAM	21.50	21.43
n41	30	20	501204	1@49	CP_16QAM	21.50	21.47
n41	30	20	501204	51@0	CP_64QAM	20.50	20.12
n41	30	20	501204	25@12	CP_64QAM	20.50	20.19
n41	30	20	501204	1@1	CP_64QAM	20.00	19.82
n41	30	20	501204	1@49	CP_64QAM	20.00	19.91
n41	30	20	501204	51@0	CP_256QAM	17.50	17.12
n41	30	20	501204	25@12	CP_256QAM	17.50	17.10
n41	30	20	501204	1@1	CP_256QAM	17.50	17.06
n41	30	20	501204	1@49	CP_256QAM	17.50	17.11
n41	30	20	518598	50@0	DFT_BPSK	23.50	23.11
n41	30	20	518598	25@12	DFT_BPSK	24.00	23.65

n41	30	20	518598	1@1	DFT_BPSK	23.50	23.35
n41	30	20	518598	1@49	DFT_BPSK	24.00	23.51
n41	30	20	518598	50@0	DFT_QPSK	23.00	22.81
n41	30	20	518598	25@12	DFT_QPSK	24.00	23.66
n41	30	20	518598	1@1	DFT_QPSK	23.50	23.49
n41	30	20	518598	1@49	DFT_QPSK	24.00	23.69
n41	30	20	518598	50@0	DFT_16QAM	22.00	21.81
n41	30	20	518598	25@12	DFT_16QAM	23.00	22.83
n41	30	20	518598	1@1	DFT_16QAM	22.50	22.45
n41	30	20	518598	1@49	DFT_16QAM	23.00	22.60
n41	30	20	518598	50@0	DFT_64QAM	21.50	21.35
n41	30	20	518598	25@12	DFT_64QAM	21.50	21.30
n41	30	20	518598	1@1	DFT_64QAM	21.50	21.20
n41	30	20	518598	1@49	DFT_64QAM	21.50	21.46
n41	30	20	518598	50@0	DFT_256QAM	19.50	19.28
n41	30	20	518598	25@12	DFT_256QAM	19.50	19.34
n41	30	20	518598	1@1	DFT_256QAM	19.50	19.16
n41	30	20	518598	1@49	DFT_256QAM	19.50	19.34
n41	30	20	518598	51@0	CP_QPSK	21.00	20.79
n41	30	20	518598	25@12	CP_QPSK	22.50	22.28
n41	30	20	518598	1@1	CP_QPSK	22.50	22.01
n41	30	20	518598	1@49	CP_QPSK	22.50	22.09
n41	30	20	518598	51@0	CP_16QAM	21.00	20.79
n41	30	20	518598	25@12	CP_16QAM	22.00	21.85
n41	30	20	518598	1@1	CP_16QAM	22.00	21.57
n41	30	20	518598	1@49	CP_16QAM	22.00	21.69
n41	30	20	518598	51@0	CP_64QAM	20.50	20.30
n41	30	20	518598	25@12	CP_64QAM	20.50	20.32
n41	30	20	518598	1@1	CP_64QAM	20.00	19.97
n41	30	20	518598	1@49	CP_64QAM	20.50	20.03
n41	30	20	518598	51@0	CP_256QAM	17.50	17.25
n41	30	20	518598	25@12	CP_256QAM	17.50	17.26
n41	30	20	518598	1@1	CP_256QAM	17.50	17.14
n41	30	20	518598	1@49	CP_256QAM	17.50	17.32
n41	30	20	535998	50@0	DFT_BPSK	23.50	23.21
n41	30	20	535998	25@12	DFT_BPSK	24.00	23.54
n41	30	20	535998	1@1	DFT_BPSK	23.50	23.33
n41	30	20	535998	1@49	DFT_BPSK	23.50	23.40
n41	30	20	535998	50@0	DFT_QPSK	23.00	22.71

n41	30	20	535998	25@12	DFT_QPSK	24.00	23.58
n41	30	20	535998	1@1	DFT_QPSK	23.50	23.37
n41	30	20	535998	1@49	DFT_QPSK	23.50	23.48
n41	30	20	535998	50@0	DFT_16QAM	22.00	21.73
n41	30	20	535998	25@12	DFT_16QAM	23.00	22.79
n41	30	20	535998	1@1	DFT_16QAM	23.00	22.58
n41	30	20	535998	1@49	DFT_16QAM	23.00	22.62
n41	30	20	535998	50@0	DFT_64QAM	21.50	21.25
n41	30	20	535998	25@12	DFT_64QAM	21.50	21.28
n41	30	20	535998	1@1	DFT_64QAM	21.00	20.81
n41	30	20	535998	1@49	DFT_64QAM	21.00	20.89
n41	30	20	535998	50@0	DFT_256QAM	19.50	19.17
n41	30	20	535998	25@12	DFT_256QAM	19.50	19.25
n41	30	20	535998	1@1	DFT_256QAM	19.50	19.14
n41	30	20	535998	1@49	DFT_256QAM	19.50	19.25
n41	30	20	535998	51@0	CP_QPSK	21.00	20.70
n41	30	20	535998	25@12	CP_QPSK	22.50	22.29
n41	30	20	535998	1@1	CP_QPSK	22.00	21.93
n41	30	20	535998	1@49	CP_QPSK	22.00	21.99
n41	30	20	535998	51@0	CP_16QAM	21.00	20.68
n41	30	20	535998	25@12	CP_16QAM	22.00	21.75
n41	30	20	535998	1@1	CP_16QAM	21.50	21.50
n41	30	20	535998	1@49	CP_16QAM	22.00	21.58
n41	30	20	535998	51@0	CP_64QAM	20.50	20.18
n41	30	20	535998	25@12	CP_64QAM	20.50	20.24
n41	30	20	535998	1@1	CP_64QAM	20.00	19.91
n41	30	20	535998	1@49	CP_64QAM	20.00	19.96
n41	30	20	535998	51@0	CP_256QAM	17.50	17.20
n41	30	20	535998	25@12	CP_256QAM	17.50	17.23
n41	30	20	535998	1@1	CP_256QAM	17.50	17.18
n41	30	20	535998	1@49	CP_256QAM	17.50	17.26
n41	30	30	502200	75@0	DFT_BPSK	23.50	23.03
n41	30	30	502200	36@18	DFT_BPSK	24.00	23.59
n41	30	30	502200	1@1	DFT_BPSK	23.50	23.21
n41	30	30	502200	1@76	DFT_BPSK	23.50	23.26
n41	30	30	502200	75@0	DFT_QPSK	23.00	22.70
n41	30	30	502200	36@18	DFT_QPSK	24.00	23.62
n41	30	30	502200	1@1	DFT_QPSK	23.50	23.29
n41	30	30	502200	1@76	DFT_QPSK	23.50	23.32

n41	30	30	502200	75@0	DFT_16QAM	22.00	21.68
n41	30	30	502200	36@18	DFT_16QAM	23.00	22.79
n41	30	30	502200	1@1	DFT_16QAM	22.50	22.40
n41	30	30	502200	1@76	DFT_16QAM	22.50	22.46
n41	30	30	502200	75@0	DFT_64QAM	21.50	21.19
n41	30	30	502200	36@18	DFT_64QAM	21.50	21.20
n41	30	30	502200	1@1	DFT_64QAM	21.00	20.72
n41	30	30	502200	1@76	DFT_64QAM	21.00	20.81
n41	30	30	502200	75@0	DFT_256QAM	19.50	19.17
n41	30	30	502200	36@18	DFT_256QAM	19.50	19.19
n41	30	30	502200	1@1	DFT_256QAM	19.50	19.01
n41	30	30	502200	1@76	DFT_256QAM	19.50	19.07
n41	30	30	502200	78@0	CP_QPSK	21.00	20.68
n41	30	30	502200	39@19	CP_QPSK	22.50	22.14
n41	30	30	502200	1@1	CP_QPSK	22.00	21.86
n41	30	30	502200	1@76	CP_QPSK	22.00	21.95
n41	30	30	502200	78@0	CP_16QAM	21.00	20.66
n41	30	30	502200	39@19	CP_16QAM	22.00	21.68
n41	30	30	502200	1@1	CP_16QAM	21.50	21.42
n41	30	30	502200	1@76	CP_16QAM	22.00	21.51
n41	30	30	502200	78@0	CP_64QAM	20.50	20.18
n41	30	30	502200	39@19	CP_64QAM	20.50	20.21
n41	30	30	502200	1@1	CP_64QAM	20.00	19.77
n41	30	30	502200	1@76	CP_64QAM	20.00	19.86
n41	30	30	502200	78@0	CP_256QAM	17.50	17.14
n41	30	30	502200	39@19	CP_256QAM	17.50	17.18
n41	30	30	502200	1@1	CP_256QAM	17.50	17.01
n41	30	30	502200	1@76	CP_256QAM	17.50	17.10
n41	30	30	518598	75@0	DFT_BPSK	23.50	23.11
n41	30	30	518598	36@18	DFT_BPSK	24.00	23.69
n41	30	30	518598	1@1	DFT_BPSK	23.50	23.27
n41	30	30	518598	1@76	DFT_BPSK	23.50	23.47
n41	30	30	518598	75@0	DFT_QPSK	23.00	22.81
n41	30	30	518598	36@18	DFT_QPSK	24.00	23.72
n41	30	30	518598	1@1	DFT_QPSK	23.50	23.32
n41	30	30	518598	1@76	DFT_QPSK	24.00	23.52
n41	30	30	518598	75@0	DFT_16QAM	22.00	21.79
n41	30	30	518598	36@18	DFT_16QAM	23.00	22.87
n41	30	30	518598	1@1	DFT_16QAM	22.50	22.46

n41	30	30	518598	1@76	DFT_16QAM	23.00	22.71
n41	30	30	518598	75@0	DFT_64QAM	21.50	21.30
n41	30	30	518598	36@18	DFT_64QAM	21.50	21.32
n41	30	30	518598	1@1	DFT_64QAM	21.00	20.78
n41	30	30	518598	1@76	DFT_64QAM	21.00	21.00
n41	30	30	518598	75@0	DFT_256QAM	19.50	19.28
n41	30	30	518598	36@18	DFT_256QAM	19.50	19.30
n41	30	30	518598	1@1	DFT_256QAM	19.50	19.08
n41	30	30	518598	1@76	DFT_256QAM	19.50	19.28
n41	30	30	518598	78@0	CP_QPSK	21.00	20.74
n41	30	30	518598	39@19	CP_QPSK	22.50	22.28
n41	30	30	518598	1@1	CP_QPSK	22.00	21.99
n41	30	30	518598	1@76	CP_QPSK	22.50	22.05
n41	30	30	518598	78@0	CP_16QAM	21.00	20.75
n41	30	30	518598	39@19	CP_16QAM	22.00	21.85
n41	30	30	518598	1@1	CP_16QAM	22.00	21.54
n41	30	30	518598	1@76	CP_16QAM	22.00	21.64
n41	30	30	518598	78@0	CP_64QAM	20.50	20.27
n41	30	30	518598	39@19	CP_64QAM	20.50	20.37
n41	30	30	518598	1@1	CP_64QAM	20.00	19.86
n41	30	30	518598	1@76	CP_64QAM	20.00	19.97
n41	30	30	518598	78@0	CP_256QAM	17.50	17.24
n41	30	30	518598	39@19	CP_256QAM	17.50	17.35
n41	30	30	518598	1@1	CP_256QAM	17.50	17.11
n41	30	30	518598	1@76	CP_256QAM	17.50	17.22
n41	30	30	534996	75@0	DFT_BPSK	23.50	23.21
n41	30	30	534996	36@18	DFT_BPSK	24.00	23.62
n41	30	30	534996	1@1	DFT_BPSK	23.50	23.14
n41	30	30	534996	1@76	DFT_BPSK	23.50	23.32
n41	30	30	534996	75@0	DFT_QPSK	23.00	22.72
n41	30	30	534996	36@18	DFT_QPSK	24.00	23.67
n41	30	30	534996	1@1	DFT_QPSK	23.50	23.18
n41	30	30	534996	1@76	DFT_QPSK	23.50	23.34
n41	30	30	534996	75@0	DFT_16QAM	22.00	21.71
n41	30	30	534996	36@18	DFT_16QAM	23.00	22.80
n41	30	30	534996	1@1	DFT_16QAM	22.50	22.26
n41	30	30	534996	1@76	DFT_16QAM	22.50	22.44
n41	30	30	534996	75@0	DFT_64QAM	21.50	21.25
n41	30	30	534996	36@18	DFT_64QAM	21.50	21.30

n41	30	30	534996	1@1	DFT_64QAM	21.00	20.91
n41	30	30	534996	1@76	DFT_64QAM	21.50	21.14
n41	30	30	534996	75@0	DFT_256QAM	19.50	19.18
n41	30	30	534996	36@18	DFT_256QAM	19.50	19.23
n41	30	30	534996	1@1	DFT_256QAM	19.00	19.00
n41	30	30	534996	1@76	DFT_256QAM	19.50	19.14
n41	30	30	534996	78@0	CP_QPSK	21.00	20.65
n41	30	30	534996	39@19	CP_QPSK	22.50	22.26
n41	30	30	534996	1@1	CP_QPSK	22.00	21.76
n41	30	30	534996	1@76	CP_QPSK	22.00	21.95
n41	30	30	534996	78@0	CP_16QAM	21.00	20.70
n41	30	30	534996	39@19	CP_16QAM	22.00	21.81
n41	30	30	534996	1@1	CP_16QAM	21.50	21.35
n41	30	30	534996	1@76	CP_16QAM	22.00	21.51
n41	30	30	534996	78@0	CP_64QAM	20.50	20.18
n41	30	30	534996	39@19	CP_64QAM	20.50	20.25
n41	30	30	534996	1@1	CP_64QAM	20.00	19.78
n41	30	30	534996	1@76	CP_64QAM	20.00	19.99
n41	30	30	534996	78@0	CP_256QAM	17.50	17.18
n41	30	30	534996	39@19	CP_256QAM	17.50	17.26
n41	30	30	534996	1@1	CP_256QAM	17.00	16.97
n41	30	30	534996	1@76	CP_256QAM	17.50	17.16
n41	30	40	503202	100@0	DFT_BPSK	23.00	22.94
n41	30	40	503202	50@25	DFT_BPSK	24.00	23.54
n41	30	40	503202	1@1	DFT_BPSK	23.00	22.99
n41	30	40	503202	1@104	DFT_BPSK	23.00	22.99
n41	30	40	503202	100@0	DFT_QPSK	23.00	22.62
n41	30	40	503202	50@25	DFT_QPSK	24.00	23.59
n41	30	40	503202	1@1	DFT_QPSK	23.50	23.06
n41	30	40	503202	1@104	DFT_QPSK	23.50	23.06
n41	30	40	503202	100@0	DFT_16QAM	22.00	21.60
n41	30	40	503202	50@25	DFT_16QAM	23.00	22.72
n41	30	40	503202	1@1	DFT_16QAM	22.50	22.20
n41	30	40	503202	1@104	DFT_16QAM	22.50	22.24
n41	30	40	503202	100@0	DFT_64QAM	21.50	21.10
n41	30	40	503202	50@25	DFT_64QAM	21.50	21.20
n41	30	40	503202	1@1	DFT_64QAM	20.50	20.47
n41	30	40	503202	1@104	DFT_64QAM	20.50	20.48
n41	30	40	503202	100@0	DFT_256QAM	19.50	19.10

n41	30	40	503202	50@25	DFT_256QAM	19.50	19.13
n41	30	40	503202	1@1	DFT_256QAM	19.00	18.85
n41	30	40	503202	1@104	DFT_256QAM	19.00	18.85
n41	30	40	503202	106@0	CP_QPSK	21.00	20.55
n41	30	40	503202	53@26	CP_QPSK	22.50	22.25
n41	30	40	503202	1@1	CP_QPSK	22.00	21.56
n41	30	40	503202	1@104	CP_QPSK	22.00	21.64
n41	30	40	503202	106@0	CP_16QAM	21.00	20.55
n41	30	40	503202	53@26	CP_16QAM	22.00	21.67
n41	30	40	503202	1@1	CP_16QAM	21.50	21.14
n41	30	40	503202	1@104	CP_16QAM	21.50	21.17
n41	30	40	503202	106@0	CP_64QAM	20.50	20.07
n41	30	40	503202	53@26	CP_64QAM	20.50	20.16
n41	30	40	503202	1@1	CP_64QAM	20.00	19.54
n41	30	40	503202	1@104	CP_64QAM	20.00	19.55
n41	30	40	503202	106@0	CP_256QAM	17.50	17.07
n41	30	40	503202	53@26	CP_256QAM	17.50	17.15
n41	30	40	503202	1@1	CP_256QAM	17.00	16.82
n41	30	40	503202	1@104	CP_256QAM	17.00	16.79
n41	30	40	518598	100@0	DFT_BPSK	23.50	23.08
n41	30	40	518598	50@25	DFT_BPSK	24.00	23.67
n41	30	40	518598	1@1	DFT_BPSK	23.50	23.05
n41	30	40	518598	1@104	DFT_BPSK	23.50	23.28
n41	30	40	518598	100@0	DFT_QPSK	23.00	22.74
n41	30	40	518598	50@25	DFT_QPSK	24.00	23.67
n41	30	40	518598	1@1	DFT_QPSK	23.50	23.12
n41	30	40	518598	1@104	DFT_QPSK	23.50	23.34
n41	30	40	518598	100@0	DFT_16QAM	22.00	21.75
n41	30	40	518598	50@25	DFT_16QAM	23.00	22.86
n41	30	40	518598	1@1	DFT_16QAM	22.50	22.25
n41	30	40	518598	1@104	DFT_16QAM	23.00	22.52
n41	30	40	518598	100@0	DFT_64QAM	21.50	21.23
n41	30	40	518598	50@25	DFT_64QAM	21.50	21.33
n41	30	40	518598	1@1	DFT_64QAM	21.00	20.59
n41	30	40	518598	1@104	DFT_64QAM	21.00	20.80
n41	30	40	518598	100@0	DFT_256QAM	19.50	19.24
n41	30	40	518598	50@25	DFT_256QAM	19.50	19.28
n41	30	40	518598	1@1	DFT_256QAM	19.00	18.89
n41	30	40	518598	1@104	DFT_256QAM	19.50	19.15

n41	30	40	518598	106@0	CP_QPSK	21.00	20.68
n41	30	40	518598	53@26	CP_QPSK	22.50	22.35
n41	30	40	518598	1@1	CP_QPSK	22.00	21.68
n41	30	40	518598	1@104	CP_QPSK	22.00	21.92
n41	30	40	518598	106@0	CP_16QAM	21.00	20.66
n41	30	40	518598	53@26	CP_16QAM	22.00	21.80
n41	30	40	518598	1@1	CP_16QAM	21.50	21.30
n41	30	40	518598	1@104	CP_16QAM	22.00	21.53
n41	30	40	518598	106@0	CP_64QAM	20.50	20.20
n41	30	40	518598	53@26	CP_64QAM	20.50	20.30
n41	30	40	518598	1@1	CP_64QAM	20.00	19.64
n41	30	40	518598	1@104	CP_64QAM	20.00	19.82
n41	30	40	518598	106@0	CP_256QAM	17.50	17.17
n41	30	40	518598	53@26	CP_256QAM	17.50	17.28
n41	30	40	518598	1@1	CP_256QAM	17.00	16.86
n41	30	40	518598	1@104	CP_256QAM	17.50	17.10
n41	30	40	534000	100@0	DFT_BPSK	23.50	23.19
n41	30	40	534000	50@25	DFT_BPSK	24.00	23.68
n41	30	40	534000	1@1	DFT_BPSK	23.00	23.00
n41	30	40	534000	1@104	DFT_BPSK	23.50	23.19
n41	30	40	534000	100@0	DFT_QPSK	23.00	22.73
n41	30	40	534000	50@25	DFT_QPSK	24.00	23.70
n41	30	40	534000	1@1	DFT_QPSK	23.50	23.03
n41	30	40	534000	1@104	DFT_QPSK	23.50	23.25
n41	30	40	534000	100@0	DFT_16QAM	22.00	21.74
n41	30	40	534000	50@25	DFT_16QAM	23.00	22.87
n41	30	40	534000	1@1	DFT_16QAM	22.50	22.19
n41	30	40	534000	1@104	DFT_16QAM	22.50	22.39
n41	30	40	534000	100@0	DFT_64QAM	21.50	21.23
n41	30	40	534000	50@25	DFT_64QAM	21.50	21.34
n41	30	40	534000	1@1	DFT_64QAM	20.50	20.45
n41	30	40	534000	1@104	DFT_64QAM	21.00	20.65
n41	30	40	534000	100@0	DFT_256QAM	19.50	19.22
n41	30	40	534000	50@25	DFT_256QAM	19.50	19.26
n41	30	40	534000	1@1	DFT_256QAM	19.00	18.86
n41	30	40	534000	1@104	DFT_256QAM	19.50	19.06
n41	30	40	534000	106@0	CP_QPSK	21.00	20.68
n41	30	40	534000	53@26	CP_QPSK	22.50	22.32
n41	30	40	534000	1@1	CP_QPSK	22.00	21.58

n41	30	40	534000	1@104	CP_QPSK	22.00	21.79
n41	30	40	534000	106@0	CP_16QAM	21.00	20.67
n41	30	40	534000	53@26	CP_16QAM	22.00	21.78
n41	30	40	534000	1@1	CP_16QAM	21.50	21.22
n41	30	40	534000	1@104	CP_16QAM	21.50	21.42
n41	30	40	534000	106@0	CP_64QAM	20.50	20.13
n41	30	40	534000	53@26	CP_64QAM	20.50	20.26
n41	30	40	534000	1@1	CP_64QAM	20.00	19.54
n41	30	40	534000	1@104	CP_64QAM	20.00	19.77
n41	30	40	534000	106@0	CP_256QAM	17.50	17.17
n41	30	40	534000	53@26	CP_256QAM	17.50	17.26
n41	30	40	534000	1@1	CP_256QAM	17.00	16.79
n41	30	40	534000	1@104	CP_256QAM	17.50	17.01
n41	30	50	504204	128@0	DFT_BPSK	23.00	22.97
n41	30	50	504204	64@32	DFT_BPSK	24.00	23.60
n41	30	50	504204	1@1	DFT_BPSK	23.50	23.20
n41	30	50	504204	1@131	DFT_BPSK	23.50	23.26
n41	30	50	504204	128@0	DFT_QPSK	23.00	22.65
n41	30	50	504204	64@32	DFT_QPSK	24.00	23.62
n41	30	50	504204	1@1	DFT_QPSK	23.50	23.25
n41	30	50	504204	1@131	DFT_QPSK	23.50	23.32
n41	30	50	504204	128@0	DFT_16QAM	22.00	21.67
n41	30	50	504204	64@32	DFT_16QAM	23.00	22.78
n41	30	50	504204	1@1	DFT_16QAM	22.50	22.33
n41	30	50	504204	1@131	DFT_16QAM	22.50	22.40
n41	30	50	504204	128@0	DFT_64QAM	21.50	21.16
n41	30	50	504204	64@32	DFT_64QAM	21.50	21.24
n41	30	50	504204	1@1	DFT_64QAM	21.50	21.16
n41	30	50	504204	1@131	DFT_64QAM	21.50	21.16
n41	30	50	504204	128@0	DFT_256QAM	19.50	19.15
n41	30	50	504204	64@32	DFT_256QAM	19.50	19.23
n41	30	50	504204	1@1	DFT_256QAM	19.50	19.09
n41	30	50	504204	1@131	DFT_256QAM	19.50	19.15
n41	30	50	504204	133@0	CP_QPSK	21.00	20.61
n41	30	50	504204	67@33	CP_QPSK	22.50	22.22
n41	30	50	504204	1@1	CP_QPSK	22.00	21.79
n41	30	50	504204	1@131	CP_QPSK	22.00	21.88
n41	30	50	504204	133@0	CP_16QAM	21.00	20.61
n41	30	50	504204	67@33	CP_16QAM	22.00	21.70

n41	30	50	504204	1@1	CP_16QAM	21.50	21.44
n41	30	50	504204	1@131	CP_16QAM	21.50	21.47
n41	30	50	504204	133@0	CP_64QAM	20.50	20.11
n41	30	50	504204	67@33	CP_64QAM	20.50	20.20
n41	30	50	504204	1@1	CP_64QAM	20.00	19.89
n41	30	50	504204	1@131	CP_64QAM	20.00	19.87
n41	30	50	504204	133@0	CP_256QAM	17.50	17.10
n41	30	50	504204	67@33	CP_256QAM	17.50	17.19
n41	30	50	504204	1@1	CP_256QAM	17.50	17.09
n41	30	50	504204	1@131	CP_256QAM	17.50	17.12
n41	30	50	518598	128@0	DFT_BPSK	23.50	23.10
n41	30	50	518598	64@32	DFT_BPSK	24.00	23.67
n41	30	50	518598	1@1	DFT_BPSK	23.50	23.24
n41	30	50	518598	1@131	DFT_BPSK	24.00	23.53
n41	30	50	518598	128@0	DFT_QPSK	23.00	22.79
n41	30	50	518598	64@32	DFT_QPSK	24.00	23.71
n41	30	50	518598	1@1	DFT_QPSK	23.50	23.29
n41	30	50	518598	1@131	DFT_QPSK	24.00	23.59
n41	30	50	518598	128@0	DFT_16QAM	22.00	21.81
n41	30	50	518598	64@32	DFT_16QAM	23.00	22.85
n41	30	50	518598	1@1	DFT_16QAM	23.00	22.53
n41	30	50	518598	1@131	DFT_16QAM	23.00	22.77
n41	30	50	518598	128@0	DFT_64QAM	21.50	21.30
n41	30	50	518598	64@32	DFT_64QAM	21.50	21.34
n41	30	50	518598	1@1	DFT_64QAM	21.00	20.80
n41	30	50	518598	1@131	DFT_64QAM	21.50	21.03
n41	30	50	518598	128@0	DFT_256QAM	19.50	19.27
n41	30	50	518598	64@32	DFT_256QAM	19.50	19.31
n41	30	50	518598	1@1	DFT_256QAM	19.50	19.12
n41	30	50	518598	1@131	DFT_256QAM	19.50	19.39
n41	30	50	518598	133@0	CP_QPSK	21.00	20.76
n41	30	50	518598	67@33	CP_QPSK	22.50	22.35
n41	30	50	518598	1@1	CP_QPSK	22.00	21.99
n41	30	50	518598	1@131	CP_QPSK	22.50	22.22
n41	30	50	518598	133@0	CP_16QAM	21.00	20.75
n41	30	50	518598	67@33	CP_16QAM	22.00	21.82
n41	30	50	518598	1@1	CP_16QAM	22.00	21.56
n41	30	50	518598	1@131	CP_16QAM	22.00	21.79
n41	30	50	518598	133@0	CP_64QAM	20.50	20.26

n41	30	50	518598	67@33	CP_64QAM	20.50	20.32
n41	30	50	518598	1@1	CP_64QAM	20.00	19.89
n41	30	50	518598	1@131	CP_64QAM	20.50	20.11
n41	30	50	518598	133@0	CP_256QAM	17.50	17.23
n41	30	50	518598	67@33	CP_256QAM	17.50	17.34
n41	30	50	518598	1@1	CP_256QAM	17.50	17.12
n41	30	50	518598	1@131	CP_256QAM	17.50	17.37
n41	30	50	532998	128@0	DFT_BPSK	23.50	23.18
n41	30	50	532998	64@32	DFT_BPSK	24.00	23.64
n41	30	50	532998	1@1	DFT_BPSK	23.50	23.25
n41	30	50	532998	1@131	DFT_BPSK	23.50	23.41
n41	30	50	532998	128@0	DFT_QPSK	23.00	22.71
n41	30	50	532998	64@32	DFT_QPSK	24.00	23.68
n41	30	50	532998	1@1	DFT_QPSK	23.50	23.28
n41	30	50	532998	1@131	DFT_QPSK	23.50	23.46
n41	30	50	532998	128@0	DFT_16QAM	22.00	21.73
n41	30	50	532998	64@32	DFT_16QAM	23.00	22.82
n41	30	50	532998	1@1	DFT_16QAM	22.50	22.46
n41	30	50	532998	1@131	DFT_16QAM	23.00	22.65
n41	30	50	532998	128@0	DFT_64QAM	21.50	21.24
n41	30	50	532998	64@32	DFT_64QAM	21.50	21.31
n41	30	50	532998	1@1	DFT_64QAM	21.00	20.77
n41	30	50	532998	1@131	DFT_64QAM	21.00	20.93
n41	30	50	532998	128@0	DFT_256QAM	19.50	19.21
n41	30	50	532998	64@32	DFT_256QAM	19.50	19.30
n41	30	50	532998	1@1	DFT_256QAM	19.50	19.12
n41	30	50	532998	1@131	DFT_256QAM	19.50	19.33
n41	30	50	532998	133@0	CP_QPSK	21.00	20.69
n41	30	50	532998	67@33	CP_QPSK	22.50	22.27
n41	30	50	532998	1@1	CP_QPSK	22.00	21.87
n41	30	50	532998	1@131	CP_QPSK	22.50	22.10
n41	30	50	532998	133@0	CP_16QAM	21.00	20.67
n41	30	50	532998	67@33	CP_16QAM	22.00	21.76
n41	30	50	532998	1@1	CP_16QAM	21.50	21.49
n41	30	50	532998	1@131	CP_16QAM	22.00	21.72
n41	30	50	532998	133@0	CP_64QAM	20.50	20.18
n41	30	50	532998	67@33	CP_64QAM	20.50	20.24
n41	30	50	532998	1@1	CP_64QAM	20.00	19.87
n41	30	50	532998	1@131	CP_64QAM	20.50	20.07

n41	30	50	532998	133@0	CP_256QAM	17.50	17.18
n41	30	50	532998	67@33	CP_256QAM	17.50	17.29
n41	30	50	532998	1@1	CP_256QAM	17.50	17.03
n41	30	50	532998	1@131	CP_256QAM	17.50	17.33
n41	30	60	505200	162@0	DFT_BPSK	23.00	22.92
n41	30	60	505200	81@40	DFT_BPSK	24.00	23.58
n41	30	60	505200	1@1	DFT_BPSK	23.50	23.08
n41	30	60	505200	1@160	DFT_BPSK	23.50	23.21
n41	30	60	505200	162@0	DFT_QPSK	23.00	22.59
n41	30	60	505200	81@40	DFT_QPSK	24.00	23.59
n41	30	60	505200	1@1	DFT_QPSK	23.50	23.15
n41	30	60	505200	1@160	DFT_QPSK	23.50	23.25
n41	30	60	505200	162@0	DFT_16QAM	22.00	21.65
n41	30	60	505200	81@40	DFT_16QAM	23.00	22.76
n41	30	60	505200	1@1	DFT_16QAM	22.50	22.32
n41	30	60	505200	1@160	DFT_16QAM	22.50	22.42
n41	30	60	505200	162@0	DFT_64QAM	21.50	21.13
n41	30	60	505200	81@40	DFT_64QAM	21.50	21.23
n41	30	60	505200	1@1	DFT_64QAM	21.00	20.63
n41	30	60	505200	1@160	DFT_64QAM	21.00	20.75
n41	30	60	505200	162@0	DFT_256QAM	19.50	19.13
n41	30	60	505200	81@40	DFT_256QAM	19.50	19.22
n41	30	60	505200	1@1	DFT_256QAM	19.50	19.01
n41	30	60	505200	1@160	DFT_256QAM	19.50	19.12
n41	30	60	505200	162@0	CP_QPSK	21.00	20.55
n41	30	60	505200	81@40	CP_QPSK	22.50	22.19
n41	30	60	505200	1@1	CP_QPSK	22.00	21.84
n41	30	60	505200	1@160	CP_QPSK	22.00	21.97
n41	30	60	505200	162@0	CP_16QAM	21.00	20.55
n41	30	60	505200	81@40	CP_16QAM	22.00	21.74
n41	30	60	505200	1@1	CP_16QAM	21.50	21.33
n41	30	60	505200	1@160	CP_16QAM	21.50	21.48
n41	30	60	505200	162@0	CP_64QAM	20.50	20.09
n41	30	60	505200	81@40	CP_64QAM	20.50	20.18
n41	30	60	505200	1@1	CP_64QAM	20.00	19.78
n41	30	60	505200	1@160	CP_64QAM	20.00	19.89
n41	30	60	505200	162@0	CP_256QAM	17.50	17.05
n41	30	60	505200	81@40	CP_256QAM	17.50	17.17
n41	30	60	505200	1@1	CP_256QAM	17.00	16.99

n41	30	60	505200	1@160	CP_256QAM	17.50	17.10
n41	30	60	518598	162@0	DFT_BPSK	23.50	23.09
n41	30	60	518598	81@40	DFT_BPSK	24.00	23.66
n41	30	60	518598	1@1	DFT_BPSK	23.50	23.14
n41	30	60	518598	1@160	DFT_BPSK	23.50	23.47
n41	30	60	518598	162@0	DFT_QPSK	23.00	22.78
n41	30	60	518598	81@40	DFT_QPSK	24.00	23.69
n41	30	60	518598	1@1	DFT_QPSK	23.50	23.17
n41	30	60	518598	1@160	DFT_QPSK	23.50	23.50
n41	30	60	518598	162@0	DFT_16QAM	22.00	21.78
n41	30	60	518598	81@40	DFT_16QAM	23.00	22.86
n41	30	60	518598	1@1	DFT_16QAM	22.50	22.29
n41	30	60	518598	1@160	DFT_16QAM	23.00	22.61
n41	30	60	518598	162@0	DFT_64QAM	21.50	21.28
n41	30	60	518598	81@40	DFT_64QAM	21.50	21.31
n41	30	60	518598	1@1	DFT_64QAM	21.50	21.01
n41	30	60	518598	1@160	DFT_64QAM	21.50	21.34
n41	30	60	518598	162@0	DFT_256QAM	19.50	19.29
n41	30	60	518598	81@40	DFT_256QAM	19.50	19.28
n41	30	60	518598	1@1	DFT_256QAM	19.50	19.02
n41	30	60	518598	1@160	DFT_256QAM	19.50	19.33
n41	30	60	518598	162@0	CP_QPSK	21.00	20.76
n41	30	60	518598	81@40	CP_QPSK	22.50	22.29
n41	30	60	518598	1@1	CP_QPSK	22.00	21.82
n41	30	60	518598	1@160	CP_QPSK	22.50	22.16
n41	30	60	518598	162@0	CP_16QAM	21.00	20.73
n41	30	60	518598	81@40	CP_16QAM	22.00	21.79
n41	30	60	518598	1@1	CP_16QAM	21.50	21.41
n41	30	60	518598	1@160	CP_16QAM	22.00	21.74
n41	30	60	518598	162@0	CP_64QAM	20.50	20.24
n41	30	60	518598	81@40	CP_64QAM	20.50	20.25
n41	30	60	518598	1@1	CP_64QAM	20.00	19.85
n41	30	60	518598	1@160	CP_64QAM	20.50	20.18
n41	30	60	518598	162@0	CP_256QAM	17.50	17.19
n41	30	60	518598	81@40	CP_256QAM	17.50	17.25
n41	30	60	518598	1@1	CP_256QAM	17.00	16.98
n41	30	60	518598	1@160	CP_256QAM	17.50	17.32
n41	30	60	531996	162@0	DFT_BPSK	23.50	23.17
n41	30	60	531996	81@40	DFT_BPSK	24.00	23.64

n41	30	60	531996	1@1	DFT_BPSK	23.50	23.05
n41	30	60	531996	1@160	DFT_BPSK	23.50	23.36
n41	30	60	531996	162@0	DFT_QPSK	23.00	22.67
n41	30	60	531996	81@40	DFT_QPSK	24.00	23.65
n41	30	60	531996	1@1	DFT_QPSK	23.50	23.12
n41	30	60	531996	1@160	DFT_QPSK	23.50	23.44
n41	30	60	531996	162@0	DFT_16QAM	22.00	21.70
n41	30	60	531996	81@40	DFT_16QAM	23.00	22.83
n41	30	60	531996	1@1	DFT_16QAM	22.50	22.29
n41	30	60	531996	1@160	DFT_16QAM	23.00	22.63
n41	30	60	531996	162@0	DFT_64QAM	21.50	21.21
n41	30	60	531996	81@40	DFT_64QAM	21.50	21.30
n41	30	60	531996	1@1	DFT_64QAM	21.00	20.62
n41	30	60	531996	1@160	DFT_64QAM	21.00	20.87
n41	30	60	531996	162@0	DFT_256QAM	19.50	19.20
n41	30	60	531996	81@40	DFT_256QAM	19.50	19.29
n41	30	60	531996	1@1	DFT_256QAM	19.00	18.99
n41	30	60	531996	1@160	DFT_256QAM	19.50	19.31
n41	30	60	531996	162@0	CP_QPSK	21.00	20.64
n41	30	60	531996	81@40	CP_QPSK	22.50	22.26
n41	30	60	531996	1@1	CP_QPSK	22.00	21.76
n41	30	60	531996	1@160	CP_QPSK	22.50	22.09
n41	30	60	531996	162@0	CP_16QAM	21.00	20.64
n41	30	60	531996	81@40	CP_16QAM	22.00	21.80
n41	30	60	531996	1@1	CP_16QAM	21.50	21.31
n41	30	60	531996	1@160	CP_16QAM	22.00	21.62
n41	30	60	531996	162@0	CP_64QAM	20.50	20.17
n41	30	60	531996	81@40	CP_64QAM	20.50	20.23
n41	30	60	531996	1@1	CP_64QAM	20.00	19.64
n41	30	60	531996	1@160	CP_64QAM	20.00	20.00
n41	30	60	531996	162@0	CP_256QAM	17.50	17.15
n41	30	60	531996	81@40	CP_256QAM	17.50	17.26
n41	30	60	531996	1@1	CP_256QAM	17.00	16.94
n41	30	60	531996	1@160	CP_256QAM	17.50	17.28
n41	30	70	506202	180@0	DFT_BPSK	23.00	22.96
n41	30	70	506202	90@45	DFT_BPSK	24.00	23.56
n41	30	70	506202	1@1	DFT_BPSK	23.00	22.88
n41	30	70	506202	1@187	DFT_BPSK	23.50	23.07
n41	30	70	506202	180@0	DFT_QPSK	23.00	22.69

n41	30	70	506202	90@45	DFT_QPSK	24.00	23.57
n41	30	70	506202	1@1	DFT_QPSK	23.00	23.00
n41	30	70	506202	1@187	DFT_QPSK	23.50	23.18
n41	30	70	506202	180@0	DFT_16QAM	22.00	21.72
n41	30	70	506202	90@45	DFT_16QAM	23.00	22.76
n41	30	70	506202	1@1	DFT_16QAM	22.50	22.14
n41	30	70	506202	1@187	DFT_16QAM	22.50	22.36
n41	30	70	506202	180@0	DFT_64QAM	21.50	21.17
n41	30	70	506202	90@45	DFT_64QAM	21.50	21.23
n41	30	70	506202	1@1	DFT_64QAM	21.00	20.51
n41	30	70	506202	1@187	DFT_64QAM	21.00	20.71
n41	30	70	506202	180@0	DFT_256QAM	19.50	19.17
n41	30	70	506202	90@45	DFT_256QAM	19.50	19.22
n41	30	70	506202	1@1	DFT_256QAM	19.00	18.88
n41	30	70	506202	1@187	DFT_256QAM	19.50	19.08
n41	30	70	506202	189@0	CP_QPSK	21.00	20.65
n41	30	70	506202	95@47	CP_QPSK	22.50	22.19
n41	30	70	506202	1@1	CP_QPSK	22.00	21.68
n41	30	70	506202	1@187	CP_QPSK	22.00	21.95
n41	30	70	506202	189@0	CP_16QAM	21.00	20.64
n41	30	70	506202	95@47	CP_16QAM	22.00	21.78
n41	30	70	506202	1@1	CP_16QAM	21.50	21.33
n41	30	70	506202	1@187	CP_16QAM	22.00	21.56
n41	30	70	506202	189@0	CP_64QAM	20.50	20.15
n41	30	70	506202	95@47	CP_64QAM	20.50	20.21
n41	30	70	506202	1@1	CP_64QAM	20.00	19.60
n41	30	70	506202	1@187	CP_64QAM	20.00	19.84
n41	30	70	506202	189@0	CP_256QAM	17.50	17.08
n41	30	70	506202	95@47	CP_256QAM	17.50	17.17
n41	30	70	506202	1@1	CP_256QAM	17.00	16.85
n41	30	70	506202	1@187	CP_256QAM	17.50	17.03
n41	30	70	518598	180@0	DFT_BPSK	23.50	23.06
n41	30	70	518598	90@45	DFT_BPSK	24.00	23.66
n41	30	70	518598	1@1	DFT_BPSK	23.00	22.88
n41	30	70	518598	1@187	DFT_BPSK	23.50	23.30
n41	30	70	518598	180@0	DFT_QPSK	23.00	22.75
n41	30	70	518598	90@45	DFT_QPSK	24.00	23.65
n41	30	70	518598	1@1	DFT_QPSK	23.50	23.01
n41	30	70	518598	1@187	DFT_QPSK	23.50	23.41

n41	30	70	518598	180@0	DFT_16QAM	22.00	21.80
n41	30	70	518598	90@45	DFT_16QAM	23.00	22.85
n41	30	70	518598	1@1	DFT_16QAM	22.50	22.22
n41	30	70	518598	1@187	DFT_16QAM	23.00	22.64
n41	30	70	518598	180@0	DFT_64QAM	21.50	21.25
n41	30	70	518598	90@45	DFT_64QAM	21.50	21.32
n41	30	70	518598	1@1	DFT_64QAM	20.50	20.47
n41	30	70	518598	1@187	DFT_64QAM	21.00	20.91
n41	30	70	518598	180@0	DFT_256QAM	19.50	19.26
n41	30	70	518598	90@45	DFT_256QAM	19.50	19.31
n41	30	70	518598	1@1	DFT_256QAM	19.00	18.90
n41	30	70	518598	1@187	DFT_256QAM	19.50	19.33
n41	30	70	518598	189@0	CP_QPSK	21.00	20.73
n41	30	70	518598	95@47	CP_QPSK	22.50	22.29
n41	30	70	518598	1@1	CP_QPSK	22.00	21.82
n41	30	70	518598	1@187	CP_QPSK	22.50	22.19
n41	30	70	518598	189@0	CP_16QAM	21.00	20.71
n41	30	70	518598	95@47	CP_16QAM	22.00	21.84
n41	30	70	518598	1@1	CP_16QAM	21.50	21.39
n41	30	70	518598	1@187	CP_16QAM	22.00	21.76
n41	30	70	518598	189@0	CP_64QAM	20.50	20.23
n41	30	70	518598	95@47	CP_64QAM	20.50	20.28
n41	30	70	518598	1@1	CP_64QAM	20.00	19.76
n41	30	70	518598	1@187	CP_64QAM	20.50	20.14
n41	30	70	518598	189@0	CP_256QAM	17.50	17.14
n41	30	70	518598	95@47	CP_256QAM	17.50	17.24
n41	30	70	518598	1@1	CP_256QAM	17.00	16.92
n41	30	70	518598	1@187	CP_256QAM	17.50	17.35
n41	30	70	531000	180@0	DFT_BPSK	23.50	23.05
n41	30	70	531000	90@45	DFT_BPSK	24.00	23.58
n41	30	70	531000	1@1	DFT_BPSK	23.00	22.82
n41	30	70	531000	1@187	DFT_BPSK	23.50	23.18
n41	30	70	531000	180@0	DFT_QPSK	23.00	22.74
n41	30	70	531000	90@45	DFT_QPSK	24.00	23.67
n41	30	70	531000	1@1	DFT_QPSK	23.00	22.81
n41	30	70	531000	1@187	DFT_QPSK	23.50	23.18
n41	30	70	531000	180@0	DFT_16QAM	22.00	21.76
n41	30	70	531000	90@45	DFT_16QAM	23.00	22.82
n41	30	70	531000	1@1	DFT_16QAM	22.50	22.17

n41	30	70	531000	1@187	DFT_16QAM	23.00	22.54
n41	30	70	531000	180@0	DFT_64QAM	21.50	21.26
n41	30	70	531000	90@45	DFT_64QAM	21.50	21.29
n41	30	70	531000	1@1	DFT_64QAM	21.00	20.51
n41	30	70	531000	1@187	DFT_64QAM	21.00	20.92
n41	30	70	531000	180@0	DFT_256QAM	19.50	19.26
n41	30	70	531000	90@45	DFT_256QAM	19.50	19.27
n41	30	70	531000	1@1	DFT_256QAM	19.00	18.87
n41	30	70	531000	1@187	DFT_256QAM	19.50	19.24
n41	30	70	531000	189@0	CP_QPSK	21.00	20.68
n41	30	70	531000	95@47	CP_QPSK	22.50	22.24
n41	30	70	531000	1@1	CP_QPSK	22.00	21.69
n41	30	70	531000	1@187	CP_QPSK	22.50	22.13
n41	30	70	531000	189@0	CP_16QAM	21.00	20.69
n41	30	70	531000	95@47	CP_16QAM	22.00	21.79
n41	30	70	531000	1@1	CP_16QAM	21.50	21.27
n41	30	70	531000	1@187	CP_16QAM	22.00	21.69
n41	30	70	531000	189@0	CP_64QAM	20.50	20.22
n41	30	70	531000	95@47	CP_64QAM	20.50	20.24
n41	30	70	531000	1@1	CP_64QAM	20.00	19.57
n41	30	70	531000	1@187	CP_64QAM	20.00	19.91
n41	30	70	531000	189@0	CP_256QAM	17.50	17.13
n41	30	70	531000	95@47	CP_256QAM	17.50	17.27
n41	30	70	531000	1@1	CP_256QAM	17.00	16.79
n41	30	70	531000	1@187	CP_256QAM	17.50	17.29
n41	30	80	507204	216@0	DFT_BPSK	23.00	22.87
n41	30	80	507204	108@54	DFT_BPSK	24.00	23.60
n41	30	80	507204	1@1	DFT_BPSK	23.00	22.75
n41	30	80	507204	1@215	DFT_BPSK	23.00	22.94
n41	30	80	507204	216@0	DFT_QPSK	23.00	22.61
n41	30	80	507204	108@54	DFT_QPSK	24.00	23.62
n41	30	80	507204	1@1	DFT_QPSK	23.00	22.87
n41	30	80	507204	1@215	DFT_QPSK	23.50	23.08
n41	30	80	507204	216@0	DFT_16QAM	22.00	21.63
n41	30	80	507204	108@54	DFT_16QAM	23.00	22.82
n41	30	80	507204	1@1	DFT_16QAM	22.50	22.08
n41	30	80	507204	1@215	DFT_16QAM	22.50	22.29
n41	30	80	507204	216@0	DFT_64QAM	21.50	21.13
n41	30	80	507204	108@54	DFT_64QAM	21.50	21.27

n41	30	80	507204	1@1	DFT_64QAM	20.50	20.39
n41	30	80	507204	1@215	DFT_64QAM	21.00	20.59
n41	30	80	507204	216@0	DFT_256QAM	19.50	19.11
n41	30	80	507204	108@54	DFT_256QAM	19.50	19.26
n41	30	80	507204	1@1	DFT_256QAM	19.00	18.80
n41	30	80	507204	1@215	DFT_256QAM	19.50	19.02
n41	30	80	507204	217@0	CP_QPSK	21.00	20.60
n41	30	80	507204	109@54	CP_QPSK	22.50	22.23
n41	30	80	507204	1@1	CP_QPSK	22.00	21.63
n41	30	80	507204	1@215	CP_QPSK	22.00	21.88
n41	30	80	507204	217@0	CP_16QAM	21.00	20.61
n41	30	80	507204	109@54	CP_16QAM	22.00	21.70
n41	30	80	507204	1@1	CP_16QAM	21.50	21.13
n41	30	80	507204	1@215	CP_16QAM	21.50	21.37
n41	30	80	507204	217@0	CP_64QAM	20.50	20.12
n41	30	80	507204	109@54	CP_64QAM	20.50	20.24
n41	30	80	507204	1@1	CP_64QAM	20.00	19.55
n41	30	80	507204	1@215	CP_64QAM	20.00	19.75
n41	30	80	507204	217@0	CP_256QAM	17.50	17.07
n41	30	80	507204	109@54	CP_256QAM	17.50	17.21
n41	30	80	507204	1@1	CP_256QAM	17.00	16.72
n41	30	80	507204	1@215	CP_256QAM	17.00	16.91
n41	30	80	518598	216@0	DFT_BPSK	23.00	22.99
n41	30	80	518598	108@54	DFT_BPSK	24.00	23.64
n41	30	80	518598	1@1	DFT_BPSK	23.00	22.70
n41	30	80	518598	1@215	DFT_BPSK	23.50	23.13
n41	30	80	518598	216@0	DFT_QPSK	23.00	22.73
n41	30	80	518598	108@54	DFT_QPSK	24.00	23.65
n41	30	80	518598	1@1	DFT_QPSK	23.00	22.84
n41	30	80	518598	1@215	DFT_QPSK	23.50	23.28
n41	30	80	518598	216@0	DFT_16QAM	22.00	21.76
n41	30	80	518598	108@54	DFT_16QAM	23.00	22.89
n41	30	80	518598	1@1	DFT_16QAM	22.50	22.12
n41	30	80	518598	1@215	DFT_16QAM	23.00	22.55
n41	30	80	518598	216@0	DFT_64QAM	21.50	21.24
n41	30	80	518598	108@54	DFT_64QAM	21.50	21.33
n41	30	80	518598	1@1	DFT_64QAM	20.50	20.41
n41	30	80	518598	1@215	DFT_64QAM	21.00	20.81
n41	30	80	518598	216@0	DFT_256QAM	19.50	19.20

n41	30	80	518598	108@54	DFT_256QAM	19.50	19.32
n41	30	80	518598	1@1	DFT_256QAM	19.00	18.75
n41	30	80	518598	1@215	DFT_256QAM	19.50	19.18
n41	30	80	518598	217@0	CP_QPSK	21.00	20.68
n41	30	80	518598	109@54	CP_QPSK	22.50	22.27
n41	30	80	518598	1@1	CP_QPSK	22.00	21.74
n41	30	80	518598	1@215	CP_QPSK	22.50	22.05
n41	30	80	518598	217@0	CP_16QAM	21.00	20.68
n41	30	80	518598	109@54	CP_16QAM	22.00	21.76
n41	30	80	518598	1@1	CP_16QAM	21.50	21.23
n41	30	80	518598	1@215	CP_16QAM	22.00	21.62
n41	30	80	518598	217@0	CP_64QAM	20.50	20.18
n41	30	80	518598	109@54	CP_64QAM	20.50	20.30
n41	30	80	518598	1@1	CP_64QAM	19.50	19.48
n41	30	80	518598	1@215	CP_64QAM	20.00	19.85
n41	30	80	518598	217@0	CP_256QAM	17.50	17.16
n41	30	80	518598	109@54	CP_256QAM	17.50	17.27
n41	30	80	518598	1@1	CP_256QAM	17.00	16.72
n41	30	80	518598	1@215	CP_256QAM	17.50	17.11
n41	30	80	529998	216@0	DFT_BPSK	23.00	22.93
n41	30	80	529998	108@54	DFT_BPSK	24.00	23.60
n41	30	80	529998	1@1	DFT_BPSK	23.00	22.63
n41	30	80	529998	1@215	DFT_BPSK	23.50	23.08
n41	30	80	529998	216@0	DFT_QPSK	23.00	22.68
n41	30	80	529998	108@54	DFT_QPSK	24.00	23.63
n41	30	80	529998	1@1	DFT_QPSK	23.00	22.77
n41	30	80	529998	1@215	DFT_QPSK	23.50	23.21
n41	30	80	529998	216@0	DFT_16QAM	22.00	21.68
n41	30	80	529998	108@54	DFT_16QAM	23.00	22.85
n41	30	80	529998	1@1	DFT_16QAM	22.50	22.07
n41	30	80	529998	1@215	DFT_16QAM	22.50	22.48
n41	30	80	529998	216@0	DFT_64QAM	21.50	21.17
n41	30	80	529998	108@54	DFT_64QAM	21.50	21.30
n41	30	80	529998	1@1	DFT_64QAM	21.00	20.53
n41	30	80	529998	1@215	DFT_64QAM	21.00	20.95
n41	30	80	529998	216@0	DFT_256QAM	19.50	19.14
n41	30	80	529998	108@54	DFT_256QAM	19.50	19.29
n41	30	80	529998	1@1	DFT_256QAM	19.00	18.73
n41	30	80	529998	1@215	DFT_256QAM	19.50	19.23

n41	30	80	529998	217@0	CP_QPSK	21.00	20.64
n41	30	80	529998	109@54	CP_QPSK	22.50	22.24
n41	30	80	529998	1@1	CP_QPSK	21.50	21.44
n41	30	80	529998	1@215	CP_QPSK	22.00	21.92
n41	30	80	529998	217@0	CP_16QAM	21.00	20.68
n41	30	80	529998	109@54	CP_16QAM	22.00	21.74
n41	30	80	529998	1@1	CP_16QAM	21.50	21.05
n41	30	80	529998	1@215	CP_16QAM	22.00	21.52
n41	30	80	529998	217@0	CP_64QAM	20.50	20.16
n41	30	80	529998	109@54	CP_64QAM	20.50	20.31
n41	30	80	529998	1@1	CP_64QAM	20.00	19.52
n41	30	80	529998	1@215	CP_64QAM	20.00	19.98
n41	30	80	529998	217@0	CP_256QAM	17.50	17.11
n41	30	80	529998	109@54	CP_256QAM	17.50	17.20
n41	30	80	529998	1@1	CP_256QAM	17.00	16.60
n41	30	80	529998	1@215	CP_256QAM	17.50	17.14
n41	30	90	508200	243@0	DFT_BPSK	23.00	22.87
n41	30	90	508200	120@60	DFT_BPSK	24.00	23.56
n41	30	90	508200	1@1	DFT_BPSK	23.00	22.63
n41	30	90	508200	1@243	DFT_BPSK	23.00	22.87
n41	30	90	508200	243@0	DFT_QPSK	23.00	22.61
n41	30	90	508200	120@60	DFT_QPSK	24.00	23.62
n41	30	90	508200	1@1	DFT_QPSK	23.00	22.69
n41	30	90	508200	1@243	DFT_QPSK	23.00	22.92
n41	30	90	508200	243@0	DFT_16QAM	22.00	21.62
n41	30	90	508200	120@60	DFT_16QAM	23.00	22.80
n41	30	90	508200	1@1	DFT_16QAM	22.00	21.99
n41	30	90	508200	1@243	DFT_16QAM	22.50	22.23
n41	30	90	508200	243@0	DFT_64QAM	21.50	21.11
n41	30	90	508200	120@60	DFT_64QAM	21.50	21.25
n41	30	90	508200	1@1	DFT_64QAM	20.50	20.22
n41	30	90	508200	1@243	DFT_64QAM	20.50	20.47
n41	30	90	508200	243@0	DFT_256QAM	19.50	19.11
n41	30	90	508200	120@60	DFT_256QAM	19.50	19.25
n41	30	90	508200	1@1	DFT_256QAM	19.00	18.67
n41	30	90	508200	1@243	DFT_256QAM	19.00	18.89
n41	30	90	508200	245@0	CP_QPSK	21.00	20.59
n41	30	90	508200	123@61	CP_QPSK	22.50	22.23
n41	30	90	508200	1@1	CP_QPSK	21.50	21.49

n41	30	90	508200	1@243	CP_QPSK	22.00	21.69
n41	30	90	508200	245@0	CP_16QAM	21.00	20.58
n41	30	90	508200	123@61	CP_16QAM	22.00	21.71
n41	30	90	508200	1@1	CP_16QAM	21.50	21.07
n41	30	90	508200	1@243	CP_16QAM	21.50	21.30
n41	30	90	508200	245@0	CP_64QAM	20.50	20.07
n41	30	90	508200	123@61	CP_64QAM	20.50	20.20
n41	30	90	508200	1@1	CP_64QAM	19.50	19.43
n41	30	90	508200	1@243	CP_64QAM	20.00	19.60
n41	30	90	508200	245@0	CP_256QAM	17.50	17.03
n41	30	90	508200	123@61	CP_256QAM	17.50	17.17
n41	30	90	508200	1@1	CP_256QAM	17.00	16.62
n41	30	90	508200	1@243	CP_256QAM	17.00	16.82
n41	30	90	518598	243@0	DFT_BPSK	23.00	22.96
n41	30	90	518598	120@60	DFT_BPSK	24.00	23.60
n41	30	90	518598	1@1	DFT_BPSK	23.00	22.58
n41	30	90	518598	1@243	DFT_BPSK	23.50	23.06
n41	30	90	518598	243@0	DFT_QPSK	23.00	22.72
n41	30	90	518598	120@60	DFT_QPSK	24.00	23.65
n41	30	90	518598	1@1	DFT_QPSK	23.00	22.64
n41	30	90	518598	1@243	DFT_QPSK	23.50	23.12
n41	30	90	518598	243@0	DFT_16QAM	22.00	21.72
n41	30	90	518598	120@60	DFT_16QAM	23.00	22.83
n41	30	90	518598	1@1	DFT_16QAM	22.00	21.97
n41	30	90	518598	1@243	DFT_16QAM	22.50	22.48
n41	30	90	518598	243@0	DFT_64QAM	21.50	21.21
n41	30	90	518598	120@60	DFT_64QAM	21.50	21.30
n41	30	90	518598	1@1	DFT_64QAM	20.50	20.28
n41	30	90	518598	1@243	DFT_64QAM	21.00	20.74
n41	30	90	518598	243@0	DFT_256QAM	19.50	19.19
n41	30	90	518598	120@60	DFT_256QAM	19.50	19.30
n41	30	90	518598	1@1	DFT_256QAM	19.00	18.60
n41	30	90	518598	1@243	DFT_256QAM	19.50	19.08
n41	30	90	518598	245@0	CP_QPSK	21.00	20.68
n41	30	90	518598	123@61	CP_QPSK	22.50	22.28
n41	30	90	518598	1@1	CP_QPSK	21.50	21.47
n41	30	90	518598	1@243	CP_QPSK	22.00	21.97
n41	30	90	518598	245@0	CP_16QAM	21.00	20.67
n41	30	90	518598	123@61	CP_16QAM	22.00	21.76

n41	30	90	518598	1@1	CP_16QAM	21.50	21.03
n41	30	90	518598	1@243	CP_16QAM	21.50	21.50
n41	30	90	518598	245@0	CP_64QAM	20.50	20.16
n41	30	90	518598	123@61	CP_64QAM	20.50	20.24
n41	30	90	518598	1@1	CP_64QAM	19.50	19.36
n41	30	90	518598	1@243	CP_64QAM	20.00	19.83
n41	30	90	518598	245@0	CP_256QAM	17.50	17.12
n41	30	90	518598	123@61	CP_256QAM	17.50	17.19
n41	30	90	518598	1@1	CP_256QAM	17.00	16.56
n41	30	90	518598	1@243	CP_256QAM	17.50	17.03
n41	30	90	528996	243@0	DFT_BPSK	23.00	22.86
n41	30	90	528996	120@60	DFT_BPSK	24.00	23.54
n41	30	90	528996	1@1	DFT_BPSK	22.50	22.49
n41	30	90	528996	1@243	DFT_BPSK	23.00	22.97
n41	30	90	528996	243@0	DFT_QPSK	23.00	22.64
n41	30	90	528996	120@60	DFT_QPSK	24.00	23.60
n41	30	90	528996	1@1	DFT_QPSK	23.00	22.60
n41	30	90	528996	1@243	DFT_QPSK	23.50	23.06
n41	30	90	528996	243@0	DFT_16QAM	22.00	21.65
n41	30	90	528996	120@60	DFT_16QAM	23.00	22.77
n41	30	90	528996	1@1	DFT_16QAM	22.00	21.90
n41	30	90	528996	1@243	DFT_16QAM	22.50	22.35
n41	30	90	528996	243@0	DFT_64QAM	21.50	21.12
n41	30	90	528996	120@60	DFT_64QAM	21.50	21.25
n41	30	90	528996	1@1	DFT_64QAM	20.50	20.20
n41	30	90	528996	1@243	DFT_64QAM	21.00	20.66
n41	30	90	528996	243@0	DFT_256QAM	19.50	19.12
n41	30	90	528996	120@60	DFT_256QAM	19.50	19.24
n41	30	90	528996	1@1	DFT_256QAM	19.00	18.55
n41	30	90	528996	1@243	DFT_256QAM	19.50	19.01
n41	30	90	528996	245@0	CP_QPSK	21.00	20.60
n41	30	90	528996	123@61	CP_QPSK	22.50	22.21
n41	30	90	528996	1@1	CP_QPSK	21.50	21.38
n41	30	90	528996	1@243	CP_QPSK	22.00	21.88
n41	30	90	528996	245@0	CP_16QAM	21.00	20.59
n41	30	90	528996	123@61	CP_16QAM	22.00	21.69
n41	30	90	528996	1@1	CP_16QAM	21.00	20.91
n41	30	90	528996	1@243	CP_16QAM	21.50	21.46
n41	30	90	528996	245@0	CP_64QAM	20.50	20.09

n41	30	90	528996	123@61	CP_64QAM	20.50	20.20
n41	30	90	528996	1@1	CP_64QAM	19.50	19.24
n41	30	90	528996	1@243	CP_64QAM	20.00	19.82
n41	30	90	528996	245@0	CP_256QAM	17.00	17.00
n41	30	90	528996	123@61	CP_256QAM	17.50	17.13
n41	30	90	528996	1@1	CP_256QAM	17.00	16.53
n41	30	90	528996	1@243	CP_256QAM	17.50	17.18
n41	30	100	509202	270@0	DFT_BPSK	23.00	22.80
n41	30	100	509202	135@67	DFT_BPSK	24.00	23.52
n41	30	100	509202	1@1	DFT_BPSK	22.50	22.44
n41	30	100	509202	1@271	DFT_BPSK	23.00	22.78
n41	30	100	509202	270@0	DFT_QPSK	23.00	22.56
n41	30	100	509202	135@67	DFT_QPSK	24.00	23.54
n41	30	100	509202	1@1	DFT_QPSK	22.50	22.44
n41	30	100	509202	1@271	DFT_QPSK	23.00	22.79
n41	30	100	509202	270@0	DFT_16QAM	22.00	21.57
n41	30	100	509202	135@67	DFT_16QAM	23.00	22.75
n41	30	100	509202	1@1	DFT_16QAM	22.00	21.80
n41	30	100	509202	1@271	DFT_16QAM	22.50	22.13
n41	30	100	509202	270@0	DFT_64QAM	21.50	21.06
n41	30	100	509202	135@67	DFT_64QAM	21.50	21.23
n41	30	100	509202	1@1	DFT_64QAM	20.50	20.49
n41	30	100	509202	1@271	DFT_64QAM	21.00	20.74
n41	30	100	509202	270@0	DFT_256QAM	19.50	19.03
n41	30	100	509202	135@67	DFT_256QAM	19.50	19.20
n41	30	100	509202	1@1	DFT_256QAM	18.50	18.49
n41	30	100	509202	1@271	DFT_256QAM	19.00	18.83
n41	30	100	509202	273@0	CP_QPSK	21.00	20.54
n41	30	100	509202	137@68	CP_QPSK	22.50	22.24
n41	30	100	509202	1@1	CP_QPSK	21.50	21.40
n41	30	100	509202	1@271	CP_QPSK	22.00	21.76
n41	30	100	509202	273@0	CP_16QAM	21.00	20.53
n41	30	100	509202	137@68	CP_16QAM	22.00	21.72
n41	30	100	509202	1@1	CP_16QAM	21.00	20.87
n41	30	100	509202	1@271	CP_16QAM	21.50	21.23
n41	30	100	509202	273@0	CP_64QAM	20.00	20.00
n41	30	100	509202	137@68	CP_64QAM	20.50	20.20
n41	30	100	509202	1@1	CP_64QAM	19.50	19.28
n41	30	100	509202	1@271	CP_64QAM	20.00	19.63

n41	30	100	509202	273@0	CP_256QAM	17.00	16.99
n41	30	100	509202	137@68	CP_256QAM	17.50	17.16
n41	30	100	509202	1@1	CP_256QAM	16.50	16.43
n41	30	100	509202	1@271	CP_256QAM	17.00	16.75
n41	30	100	518598	270@0	DFT_BPSK	23.00	22.88
n41	30	100	518598	135@67	DFT_BPSK	24.00	23.58
n41	30	100	518598	1@1	DFT_BPSK	22.50	22.33
n41	30	100	518598	1@271	DFT_BPSK	23.00	22.88
n41	30	100	518598	270@0	DFT_QPSK	23.00	22.65
n41	30	100	518598	135@67	DFT_QPSK	24.00	23.61
n41	30	100	518598	1@1	DFT_QPSK	22.50	22.41
n41	30	100	518598	1@271	DFT_QPSK	23.00	22.96
n41	30	100	518598	270@0	DFT_16QAM	22.00	21.67
n41	30	100	518598	135@67	DFT_16QAM	23.00	22.80
n41	30	100	518598	1@1	DFT_16QAM	22.00	21.80
n41	30	100	518598	1@271	DFT_16QAM	22.50	22.35
n41	30	100	518598	270@0	DFT_64QAM	21.50	21.18
n41	30	100	518598	135@67	DFT_64QAM	21.50	21.30
n41	30	100	518598	1@1	DFT_64QAM	20.50	20.09
n41	30	100	518598	1@271	DFT_64QAM	21.00	20.61
n41	30	100	518598	270@0	DFT_256QAM	19.50	19.17
n41	30	100	518598	135@67	DFT_256QAM	19.50	19.27
n41	30	100	518598	1@1	DFT_256QAM	18.50	18.44
n41	30	100	518598	1@271	DFT_256QAM	19.00	19.00
n41	30	100	518598	273@0	CP_QPSK	21.00	20.62
n41	30	100	518598	137@68	CP_QPSK	22.50	22.32
n41	30	100	518598	1@1	CP_QPSK	21.50	21.32
n41	30	100	518598	1@271	CP_QPSK	22.00	21.86
n41	30	100	518598	273@0	CP_16QAM	21.00	20.65
n41	30	100	518598	137@68	CP_16QAM	22.00	21.80
n41	30	100	518598	1@1	CP_16QAM	21.00	20.86
n41	30	100	518598	1@271	CP_16QAM	21.50	21.41
n41	30	100	518598	273@0	CP_64QAM	20.50	20.10
n41	30	100	518598	137@68	CP_64QAM	20.50	20.27
n41	30	100	518598	1@1	CP_64QAM	19.50	19.21
n41	30	100	518598	1@271	CP_64QAM	20.00	19.74
n41	30	100	518598	273@0	CP_256QAM	17.50	17.07
n41	30	100	518598	137@68	CP_256QAM	17.50	17.24
n41	30	100	518598	1@1	CP_256QAM	16.50	16.36

n41	30	100	518598	1@271	CP_256QAM	17.00	16.90
n41	30	100	528000	270@0	DFT_BPSK	23.00	22.86
n41	30	100	528000	135@67	DFT_BPSK	24.00	23.55
n41	30	100	528000	1@1	DFT_BPSK	22.50	22.32
n41	30	100	528000	1@271	DFT_BPSK	23.00	22.88
n41	30	100	528000	270@0	DFT_QPSK	23.00	22.60
n41	30	100	528000	135@67	DFT_QPSK	24.00	23.58
n41	30	100	528000	1@1	DFT_QPSK	22.50	22.36
n41	30	100	528000	1@271	DFT_QPSK	23.00	22.95
n41	30	100	528000	270@0	DFT_16QAM	22.00	21.63
n41	30	100	528000	135@67	DFT_16QAM	23.00	22.79
n41	30	100	528000	1@1	DFT_16QAM	22.00	21.78
n41	30	100	528000	1@271	DFT_16QAM	22.50	22.30
n41	30	100	528000	270@0	DFT_64QAM	21.50	21.13
n41	30	100	528000	135@67	DFT_64QAM	21.50	21.27
n41	30	100	528000	1@1	DFT_64QAM	20.50	20.02
n41	30	100	528000	1@271	DFT_64QAM	21.00	20.56
n41	30	100	528000	270@0	DFT_256QAM	19.50	19.09
n41	30	100	528000	135@67	DFT_256QAM	19.50	19.23
n41	30	100	528000	1@1	DFT_256QAM	18.50	18.43
n41	30	100	528000	1@271	DFT_256QAM	19.50	19.01
n41	30	100	528000	273@0	CP_QPSK	21.00	20.58
n41	30	100	528000	137@68	CP_QPSK	22.50	22.28
n41	30	100	528000	1@1	CP_QPSK	21.50	21.24
n41	30	100	528000	1@271	CP_QPSK	22.00	21.81
n41	30	100	528000	273@0	CP_16QAM	21.00	20.56
n41	30	100	528000	137@68	CP_16QAM	22.00	21.77
n41	30	100	528000	1@1	CP_16QAM	21.00	20.79
n41	30	100	528000	1@271	CP_16QAM	21.50	21.39
n41	30	100	528000	273@0	CP_64QAM	20.50	20.06
n41	30	100	528000	137@68	CP_64QAM	20.50	20.23
n41	30	100	528000	1@1	CP_64QAM	19.50	19.15
n41	30	100	528000	1@271	CP_64QAM	20.00	19.73
n41	30	100	528000	273@0	CP_256QAM	17.50	17.05
n41	30	100	528000	137@68	CP_256QAM	17.50	17.21
n41	30	100	528000	1@1	CP_256QAM	16.50	16.33
n41	30	100	528000	1@271	CP_256QAM	17.50	17.05
n78(3450-3550)	30	10	630334	24@0	DFT_BPSK	20.00	19.63

n78(3450-3550)	30	10	630334	12@6	DFT_BPSK	20.50	20.13
n78(3450-3550)	30	10	630334	1@1	DFT_BPSK	20.50	20.05
n78(3450-3550)	30	10	630334	1@22	DFT_BPSK	20.50	20.12
n78(3450-3550)	30	10	630334	24@0	DFT_QPSK	19.50	19.13
n78(3450-3550)	30	10	630334	12@6	DFT_QPSK	20.50	20.18
n78(3450-3550)	30	10	630334	1@1	DFT_QPSK	20.50	20.04
n78(3450-3550)	30	10	630334	1@22	DFT_QPSK	20.50	20.10
n78(3450-3550)	30	10	630334	24@0	DFT_16QAM	18.50	18.10
n78(3450-3550)	30	10	630334	12@6	DFT_16QAM	19.50	19.21
n78(3450-3550)	30	10	630334	1@1	DFT_16QAM	19.50	19.09
n78(3450-3550)	30	10	630334	1@22	DFT_16QAM	19.50	19.17
n78(3450-3550)	30	10	630334	24@0	DFT_64QAM	18.00	17.61
n78(3450-3550)	30	10	630334	12@6	DFT_64QAM	18.00	17.62
n78(3450-3550)	30	10	630334	1@1	DFT_64QAM	17.50	17.43
n78(3450-3550)	30	10	630334	1@22	DFT_64QAM	17.50	17.50
n78(3450-3550)	30	10	630334	24@0	DFT_256QAM	16.00	15.59
n78(3450-3550)	30	10	630334	12@6	DFT_256QAM	16.00	15.67
n78(3450-3550)	30	10	630334	1@1	DFT_256QAM	16.00	15.60
n78(3450-3550)	30	10	630334	1@22	DFT_256QAM	16.00	15.71
n78(3450-3550)	30	10	630334	24@0	CP_QPSK	17.50	17.15
n78(3450-3550)	30	10	630334	12@6	CP_QPSK	19.00	18.71
n78(3450-3550)	30	10	630334	1@1	CP_QPSK	19.00	18.58
n78(3450-3550)	30	10	630334	1@22	CP_QPSK	19.00	18.62
n78(3450-3550)	30	10	630334	24@0	CP_16QAM	17.50	17.13
n78(3450-3550)	30	10	630334	12@6	CP_16QAM	18.50	18.17
n78(3450-3550)	30	10	630334	1@1	CP_16QAM	18.50	18.12
n78(3450-3550)	30	10	630334	1@22	CP_16QAM	18.50	18.15
n78(3450-3550)	30	10	630334	24@0	CP_64QAM	17.00	16.62
n78(3450-3550)	30	10	630334	12@6	CP_64QAM	17.00	16.67
n78(3450-3550)	30	10	630334	1@1	CP_64QAM	17.00	16.52

n78(3450-3550)	30	10	630334	1@22	CP_64QAM	17.00	16.62
n78(3450-3550)	30	10	630334	24@0	CP_256QAM	14.00	13.67
n78(3450-3550)	30	10	630334	12@6	CP_256QAM	14.00	13.69
n78(3450-3550)	30	10	630334	1@1	CP_256QAM	14.00	13.71
n78(3450-3550)	30	10	630334	1@22	CP_256QAM	14.00	13.78
n78(3450-3550)	30	10	633334	24@0	DFT_BPSK	19.50	19.49
n78(3450-3550)	30	10	633334	12@6	DFT_BPSK	20.00	19.99
n78(3450-3550)	30	10	633334	1@1	DFT_BPSK	20.00	19.93
n78(3450-3550)	30	10	633334	1@22	DFT_BPSK	20.00	19.89
n78(3450-3550)	30	10	633334	24@0	DFT_QPSK	19.50	19.01
n78(3450-3550)	30	10	633334	12@6	DFT_QPSK	20.50	20.04
n78(3450-3550)	30	10	633334	1@1	DFT_QPSK	20.00	20.00
n78(3450-3550)	30	10	633334	1@22	DFT_QPSK	20.00	19.93
n78(3450-3550)	30	10	633334	24@0	DFT_16QAM	18.50	18.02
n78(3450-3550)	30	10	633334	12@6	DFT_16QAM	19.50	19.01
n78(3450-3550)	30	10	633334	1@1	DFT_16QAM	19.00	18.87
n78(3450-3550)	30	10	633334	1@22	DFT_16QAM	19.00	18.81
n78(3450-3550)	30	10	633334	24@0	DFT_64QAM	17.50	17.43
n78(3450-3550)	30	10	633334	12@6	DFT_64QAM	17.50	17.43
n78(3450-3550)	30	10	633334	1@1	DFT_64QAM	17.50	17.31
n78(3450-3550)	30	10	633334	1@22	DFT_64QAM	17.50	17.26
n78(3450-3550)	30	10	633334	24@0	DFT_256QAM	15.50	15.46
n78(3450-3550)	30	10	633334	12@6	DFT_256QAM	15.50	15.48
n78(3450-3550)	30	10	633334	1@1	DFT_256QAM	16.00	15.61
n78(3450-3550)	30	10	633334	1@22	DFT_256QAM	15.50	15.50
n78(3450-3550)	30	10	633334	24@0	CP_QPSK	17.00	16.98
n78(3450-3550)	30	10	633334	12@6	CP_QPSK	18.50	18.48
n78(3450-3550)	30	10	633334	1@1	CP_QPSK	18.50	18.48
n78(3450-3550)	30	10	633334	1@22	CP_QPSK	18.50	18.40
n78(3450-3550)	30	10	633334	24@0	CP_16QAM	17.00	16.95

n78(3450-3550)	30	10	633334	12@6	CP_16QAM	18.00	18.00
n78(3450-3550)	30	10	633334	1@1	CP_16QAM	18.00	17.98
n78(3450-3550)	30	10	633334	1@22	CP_16QAM	18.00	17.93
n78(3450-3550)	30	10	633334	24@0	CP_64QAM	16.50	16.46
n78(3450-3550)	30	10	633334	12@6	CP_64QAM	16.50	16.48
n78(3450-3550)	30	10	633334	1@1	CP_64QAM	16.50	16.36
n78(3450-3550)	30	10	633334	1@22	CP_64QAM	16.50	16.28
n78(3450-3550)	30	10	633334	24@0	CP_256QAM	13.50	13.48
n78(3450-3550)	30	10	633334	12@6	CP_256QAM	14.00	13.57
n78(3450-3550)	30	10	633334	1@1	CP_256QAM	14.00	13.64
n78(3450-3550)	30	10	633334	1@22	CP_256QAM	14.00	13.56
n78(3450-3550)	30	10	636332	24@0	DFT_BPSK	20.00	19.88
n78(3450-3550)	30	10	636332	12@6	DFT_BPSK	20.50	20.34
n78(3450-3550)	30	10	636332	1@1	DFT_BPSK	20.50	20.27
n78(3450-3550)	30	10	636332	1@22	DFT_BPSK	20.50	20.35
n78(3450-3550)	30	10	636332	24@0	DFT_QPSK	19.50	19.40
n78(3450-3550)	30	10	636332	12@6	DFT_QPSK	20.50	20.36
n78(3450-3550)	30	10	636332	1@1	DFT_QPSK	20.50	20.27
n78(3450-3550)	30	10	636332	1@22	DFT_QPSK	20.50	20.37
n78(3450-3550)	30	10	636332	24@0	DFT_16QAM	18.50	18.36
n78(3450-3550)	30	10	636332	12@6	DFT_16QAM	19.50	19.41
n78(3450-3550)	30	10	636332	1@1	DFT_16QAM	19.50	19.35
n78(3450-3550)	30	10	636332	1@22	DFT_16QAM	19.50	19.42
n78(3450-3550)	30	10	636332	24@0	DFT_64QAM	18.00	17.87
n78(3450-3550)	30	10	636332	12@6	DFT_64QAM	18.00	17.88
n78(3450-3550)	30	10	636332	1@1	DFT_64QAM	18.00	17.69
n78(3450-3550)	30	10	636332	1@22	DFT_64QAM	18.00	17.78
n78(3450-3550)	30	10	636332	24@0	DFT_256QAM	16.00	15.84
n78(3450-3550)	30	10	636332	12@6	DFT_256QAM	16.00	15.90
n78(3450-3550)	30	10	636332	1@1	DFT_256QAM	16.00	15.87

n78(3450-3550)	30	10	636332	1@22	DFT_256QAM	16.00	15.98
n78(3450-3550)	30	10	636332	24@0	CP_QPSK	17.50	17.35
n78(3450-3550)	30	10	636332	12@6	CP_QPSK	19.00	18.90
n78(3450-3550)	30	10	636332	1@1	CP_QPSK	19.00	18.81
n78(3450-3550)	30	10	636332	1@22	CP_QPSK	19.00	18.91
n78(3450-3550)	30	10	636332	24@0	CP_16QAM	17.50	17.36
n78(3450-3550)	30	10	636332	12@6	CP_16QAM	18.50	18.38
n78(3450-3550)	30	10	636332	1@1	CP_16QAM	18.50	18.33
n78(3450-3550)	30	10	636332	1@22	CP_16QAM	18.50	18.40
n78(3450-3550)	30	10	636332	24@0	CP_64QAM	17.00	16.88
n78(3450-3550)	30	10	636332	12@6	CP_64QAM	17.00	16.91
n78(3450-3550)	30	10	636332	1@1	CP_64QAM	17.00	16.69
n78(3450-3550)	30	10	636332	1@22	CP_64QAM	17.00	16.77
n78(3450-3550)	30	10	636332	24@0	CP_256QAM	14.00	13.89
n78(3450-3550)	30	10	636332	12@6	CP_256QAM	14.00	13.97
n78(3450-3550)	30	10	636332	1@1	CP_256QAM	14.00	13.97
n78(3450-3550)	30	10	636332	1@22	CP_256QAM	14.50	14.03
n78(3450-3550)	30	15	630500	36@0	DFT_BPSK	20.00	19.69
n78(3450-3550)	30	15	630500	18@9	DFT_BPSK	20.50	20.23
n78(3450-3550)	30	15	630500	1@1	DFT_BPSK	20.50	20.06
n78(3450-3550)	30	15	630500	1@36	DFT_BPSK	20.50	20.14
n78(3450-3550)	30	15	630500	36@0	DFT_QPSK	19.50	19.23
n78(3450-3550)	30	15	630500	18@9	DFT_QPSK	20.50	20.24
n78(3450-3550)	30	15	630500	1@1	DFT_QPSK	20.50	20.08
n78(3450-3550)	30	15	630500	1@36	DFT_QPSK	20.50	20.16
n78(3450-3550)	30	15	630500	36@0	DFT_16QAM	18.50	18.23
n78(3450-3550)	30	15	630500	18@9	DFT_16QAM	19.50	19.17
n78(3450-3550)	30	15	630500	1@1	DFT_16QAM	19.50	19.14
n78(3450-3550)	30	15	630500	1@36	DFT_16QAM	19.50	19.20
n78(3450-3550)	30	15	630500	36@0	DFT_64QAM	18.00	17.64

n78(3450-3550)	30	15	630500	18@9	DFT_64QAM	18.00	17.70
n78(3450-3550)	30	15	630500	1@1	DFT_64QAM	17.50	17.41
n78(3450-3550)	30	15	630500	1@36	DFT_64QAM	17.50	17.43
n78(3450-3550)	30	15	630500	36@0	DFT_256QAM	16.00	15.64
n78(3450-3550)	30	15	630500	18@9	DFT_256QAM	16.00	15.69
n78(3450-3550)	30	15	630500	1@1	DFT_256QAM	16.00	15.66
n78(3450-3550)	30	15	630500	1@36	DFT_256QAM	16.00	15.73
n78(3450-3550)	30	15	630500	38@0	CP_QPSK	17.50	17.17
n78(3450-3550)	30	15	630500	19@9	CP_QPSK	19.00	18.67
n78(3450-3550)	30	15	630500	1@1	CP_QPSK	19.00	18.58
n78(3450-3550)	30	15	630500	1@36	CP_QPSK	19.00	18.64
n78(3450-3550)	30	15	630500	38@0	CP_16QAM	17.50	17.14
n78(3450-3550)	30	15	630500	19@9	CP_16QAM	18.50	18.10
n78(3450-3550)	30	15	630500	1@1	CP_16QAM	18.50	18.13
n78(3450-3550)	30	15	630500	1@36	CP_16QAM	18.50	18.23
n78(3450-3550)	30	15	630500	38@0	CP_64QAM	17.00	16.72
n78(3450-3550)	30	15	630500	19@9	CP_64QAM	17.00	16.63
n78(3450-3550)	30	15	630500	1@1	CP_64QAM	16.50	16.44
n78(3450-3550)	30	15	630500	1@36	CP_64QAM	16.50	16.49
n78(3450-3550)	30	15	630500	38@0	CP_256QAM	14.00	13.75
n78(3450-3550)	30	15	630500	19@9	CP_256QAM	14.00	13.71
n78(3450-3550)	30	15	630500	1@1	CP_256QAM	14.00	13.71
n78(3450-3550)	30	15	630500	1@36	CP_256QAM	14.00	13.84
n78(3450-3550)	30	15	633334	36@0	DFT_BPSK	19.50	19.49
n78(3450-3550)	30	15	633334	18@9	DFT_BPSK	20.00	20.00
n78(3450-3550)	30	15	633334	1@1	DFT_BPSK	20.00	19.94
n78(3450-3550)	30	15	633334	1@36	DFT_BPSK	20.00	19.88
n78(3450-3550)	30	15	633334	36@0	DFT_QPSK	19.00	18.98
n78(3450-3550)	30	15	633334	18@9	DFT_QPSK	20.50	20.01
n78(3450-3550)	30	15	633334	1@1	DFT_QPSK	20.00	19.93

n78(3450-3550)	30	15	633334	1@36	DFT_QPSK	20.00	19.86
n78(3450-3550)	30	15	633334	36@0	DFT_16QAM	18.50	18.04
n78(3450-3550)	30	15	633334	18@9	DFT_16QAM	19.00	18.95
n78(3450-3550)	30	15	633334	1@1	DFT_16QAM	19.50	19.02
n78(3450-3550)	30	15	633334	1@36	DFT_16QAM	19.00	18.96
n78(3450-3550)	30	15	633334	36@0	DFT_64QAM	17.50	17.43
n78(3450-3550)	30	15	633334	18@9	DFT_64QAM	17.50	17.47
n78(3450-3550)	30	15	633334	1@1	DFT_64QAM	17.50	17.27
n78(3450-3550)	30	15	633334	1@36	DFT_64QAM	17.50	17.20
n78(3450-3550)	30	15	633334	36@0	DFT_256QAM	15.50	15.42
n78(3450-3550)	30	15	633334	18@9	DFT_256QAM	15.50	15.43
n78(3450-3550)	30	15	633334	1@1	DFT_256QAM	16.00	15.52
n78(3450-3550)	30	15	633334	1@36	DFT_256QAM	15.50	15.44
n78(3450-3550)	30	15	633334	38@0	CP_QPSK	17.00	16.97
n78(3450-3550)	30	15	633334	19@9	CP_QPSK	18.50	18.49
n78(3450-3550)	30	15	633334	1@1	CP_QPSK	18.50	18.48
n78(3450-3550)	30	15	633334	1@36	CP_QPSK	18.50	18.38
n78(3450-3550)	30	15	633334	38@0	CP_16QAM	17.00	16.93
n78(3450-3550)	30	15	633334	19@9	CP_16QAM	18.00	17.94
n78(3450-3550)	30	15	633334	1@1	CP_16QAM	18.50	18.01
n78(3450-3550)	30	15	633334	1@36	CP_16QAM	18.00	17.93
n78(3450-3550)	30	15	633334	38@0	CP_64QAM	17.00	16.52
n78(3450-3550)	30	15	633334	19@9	CP_64QAM	16.50	16.45
n78(3450-3550)	30	15	633334	1@1	CP_64QAM	16.50	16.37
n78(3450-3550)	30	15	633334	1@36	CP_64QAM	16.50	16.26
n78(3450-3550)	30	15	633334	38@0	CP_256QAM	14.00	13.51
n78(3450-3550)	30	15	633334	19@9	CP_256QAM	14.00	13.51
n78(3450-3550)	30	15	633334	1@1	CP_256QAM	14.00	13.65
n78(3450-3550)	30	15	633334	1@36	CP_256QAM	14.00	13.56
n78(3450-3550)	30	15	636166	36@0	DFT_BPSK	20.00	19.88

n78(3450-3550)	30	15	636166	18@9	DFT_BPSK	20.50	20.33
n78(3450-3550)	30	15	636166	1@1	DFT_BPSK	20.50	20.27
n78(3450-3550)	30	15	636166	1@36	DFT_BPSK	20.50	20.39
n78(3450-3550)	30	15	636166	36@0	DFT_QPSK	19.50	19.38
n78(3450-3550)	30	15	636166	18@9	DFT_QPSK	20.50	20.34
n78(3450-3550)	30	15	636166	1@1	DFT_QPSK	20.50	20.29
n78(3450-3550)	30	15	636166	1@36	DFT_QPSK	20.50	20.39
n78(3450-3550)	30	15	636166	36@0	DFT_16QAM	18.50	18.41
n78(3450-3550)	30	15	636166	18@9	DFT_16QAM	19.50	19.32
n78(3450-3550)	30	15	636166	1@1	DFT_16QAM	19.50	19.32
n78(3450-3550)	30	15	636166	1@36	DFT_16QAM	19.50	19.45
n78(3450-3550)	30	15	636166	36@0	DFT_64QAM	18.00	17.83
n78(3450-3550)	30	15	636166	18@9	DFT_64QAM	18.00	17.86
n78(3450-3550)	30	15	636166	1@1	DFT_64QAM	18.00	17.64
n78(3450-3550)	30	15	636166	1@36	DFT_64QAM	18.00	17.72
n78(3450-3550)	30	15	636166	36@0	DFT_256QAM	16.00	15.83
n78(3450-3550)	30	15	636166	18@9	DFT_256QAM	16.00	15.86
n78(3450-3550)	30	15	636166	1@1	DFT_256QAM	16.00	15.83
n78(3450-3550)	30	15	636166	1@36	DFT_256QAM	16.00	15.99
n78(3450-3550)	30	15	636166	38@0	CP_QPSK	17.50	17.38
n78(3450-3550)	30	15	636166	19@9	CP_QPSK	19.00	18.88
n78(3450-3550)	30	15	636166	1@1	CP_QPSK	19.00	18.83
n78(3450-3550)	30	15	636166	1@36	CP_QPSK	19.00	18.88
n78(3450-3550)	30	15	636166	38@0	CP_16QAM	17.50	17.32
n78(3450-3550)	30	15	636166	19@9	CP_16QAM	18.50	18.33
n78(3450-3550)	30	15	636166	1@1	CP_16QAM	18.50	18.34
n78(3450-3550)	30	15	636166	1@36	CP_16QAM	18.50	18.44
n78(3450-3550)	30	15	636166	38@0	CP_64QAM	17.00	16.90
n78(3450-3550)	30	15	636166	19@9	CP_64QAM	17.00	16.91
n78(3450-3550)	30	15	636166	1@1	CP_64QAM	17.00	16.85

n78(3450-3550)	30	15	636166	1@36	CP_64QAM	17.00	16.96
n78(3450-3550)	30	15	636166	38@0	CP_256QAM	14.00	13.98
n78(3450-3550)	30	15	636166	19@9	CP_256QAM	14.50	14.01
n78(3450-3550)	30	15	636166	1@1	CP_256QAM	14.50	14.06
n78(3450-3550)	30	15	636166	1@36	CP_256QAM	14.50	14.18
n78(3450-3550)	30	20	630668	50@0	DFT_BPSK	20.00	19.80
n78(3450-3550)	30	20	630668	25@12	DFT_BPSK	20.50	20.33
n78(3450-3550)	30	20	630668	1@1	DFT_BPSK	20.50	20.13
n78(3450-3550)	30	20	630668	1@49	DFT_BPSK	20.50	20.12
n78(3450-3550)	30	20	630668	50@0	DFT_QPSK	19.50	19.32
n78(3450-3550)	30	20	630668	25@12	DFT_QPSK	20.50	20.36
n78(3450-3550)	30	20	630668	1@1	DFT_QPSK	20.50	20.20
n78(3450-3550)	30	20	630668	1@49	DFT_QPSK	20.50	20.17
n78(3450-3550)	30	20	630668	50@0	DFT_16QAM	18.50	18.26
n78(3450-3550)	30	20	630668	25@12	DFT_16QAM	19.50	19.34
n78(3450-3550)	30	20	630668	1@1	DFT_16QAM	19.50	19.01
n78(3450-3550)	30	20	630668	1@49	DFT_16QAM	19.00	19.00
n78(3450-3550)	30	20	630668	50@0	DFT_64QAM	18.00	17.79
n78(3450-3550)	30	20	630668	25@12	DFT_64QAM	18.00	17.80
n78(3450-3550)	30	20	630668	1@1	DFT_64QAM	17.50	17.50
n78(3450-3550)	30	20	630668	1@49	DFT_64QAM	17.50	17.46
n78(3450-3550)	30	20	630668	50@0	DFT_256QAM	16.00	15.71
n78(3450-3550)	30	20	630668	25@12	DFT_256QAM	16.00	15.79
n78(3450-3550)	30	20	630668	1@1	DFT_256QAM	16.00	15.73
n78(3450-3550)	30	20	630668	1@49	DFT_256QAM	16.00	15.78
n78(3450-3550)	30	20	630668	51@0	CP_QPSK	17.50	17.29
n78(3450-3550)	30	20	630668	25@12	CP_QPSK	19.00	18.81
n78(3450-3550)	30	20	630668	1@1	CP_QPSK	19.00	18.61
n78(3450-3550)	30	20	630668	1@49	CP_QPSK	19.00	18.64
n78(3450-3550)	30	20	630668	51@0	CP_16QAM	17.50	17.26

n78(3450-3550)	30	20	630668	25@12	CP_16QAM	18.50	18.29
n78(3450-3550)	30	20	630668	1@1	CP_16QAM	18.50	18.15
n78(3450-3550)	30	20	630668	1@49	CP_16QAM	18.50	18.21
n78(3450-3550)	30	20	630668	51@0	CP_64QAM	17.00	16.79
n78(3450-3550)	30	20	630668	25@12	CP_64QAM	17.00	16.84
n78(3450-3550)	30	20	630668	1@1	CP_64QAM	17.00	16.52
n78(3450-3550)	30	20	630668	1@49	CP_64QAM	16.50	16.49
n78(3450-3550)	30	20	630668	51@0	CP_256QAM	14.00	13.82
n78(3450-3550)	30	20	630668	25@12	CP_256QAM	14.00	13.82
n78(3450-3550)	30	20	630668	1@1	CP_256QAM	14.00	13.83
n78(3450-3550)	30	20	630668	1@49	CP_256QAM	14.00	13.80
n78(3450-3550)	30	20	633334	50@0	DFT_BPSK	20.00	19.66
n78(3450-3550)	30	20	633334	25@12	DFT_BPSK	20.50	20.14
n78(3450-3550)	30	20	633334	1@1	DFT_BPSK	20.00	20.00
n78(3450-3550)	30	20	633334	1@49	DFT_BPSK	20.00	19.91
n78(3450-3550)	30	20	633334	50@0	DFT_QPSK	19.50	19.14
n78(3450-3550)	30	20	633334	25@12	DFT_QPSK	20.50	20.16
n78(3450-3550)	30	20	633334	1@1	DFT_QPSK	20.50	20.08
n78(3450-3550)	30	20	633334	1@49	DFT_QPSK	20.00	19.97
n78(3450-3550)	30	20	633334	50@0	DFT_16QAM	18.50	18.13
n78(3450-3550)	30	20	633334	25@12	DFT_16QAM	19.50	19.14
n78(3450-3550)	30	20	633334	1@1	DFT_16QAM	19.00	18.94
n78(3450-3550)	30	20	633334	1@49	DFT_16QAM	19.00	18.77
n78(3450-3550)	30	20	633334	50@0	DFT_64QAM	18.00	17.63
n78(3450-3550)	30	20	633334	25@12	DFT_64QAM	18.00	17.60
n78(3450-3550)	30	20	633334	1@1	DFT_64QAM	17.50	17.38
n78(3450-3550)	30	20	633334	1@49	DFT_64QAM	17.50	17.30
n78(3450-3550)	30	20	633334	50@0	DFT_256QAM	16.00	15.58
n78(3450-3550)	30	20	633334	25@12	DFT_256QAM	16.00	15.60
n78(3450-3550)	30	20	633334	1@1	DFT_256QAM	16.00	15.66

n78(3450-3550)	30	20	633334	1@49	DFT_256QAM	16.00	15.56
n78(3450-3550)	30	20	633334	51@0	CP_QPSK	17.50	17.14
n78(3450-3550)	30	20	633334	25@12	CP_QPSK	19.00	18.61
n78(3450-3550)	30	20	633334	1@1	CP_QPSK	19.00	18.56
n78(3450-3550)	30	20	633334	1@49	CP_QPSK	18.50	18.42
n78(3450-3550)	30	20	633334	51@0	CP_16QAM	17.50	17.08
n78(3450-3550)	30	20	633334	25@12	CP_16QAM	18.50	18.12
n78(3450-3550)	30	20	633334	1@1	CP_16QAM	18.50	18.11
n78(3450-3550)	30	20	633334	1@49	CP_16QAM	18.00	17.98
n78(3450-3550)	30	20	633334	51@0	CP_64QAM	17.00	16.60
n78(3450-3550)	30	20	633334	25@12	CP_64QAM	17.00	16.64
n78(3450-3550)	30	20	633334	1@1	CP_64QAM	16.50	16.44
n78(3450-3550)	30	20	633334	1@49	CP_64QAM	16.50	16.29
n78(3450-3550)	30	20	633334	51@0	CP_256QAM	14.00	13.63
n78(3450-3550)	30	20	633334	25@12	CP_256QAM	14.00	13.62
n78(3450-3550)	30	20	633334	1@1	CP_256QAM	14.00	13.69
n78(3450-3550)	30	20	633334	1@49	CP_256QAM	14.00	13.56
n78(3450-3550)	30	20	636000	50@0	DFT_BPSK	20.00	19.97
n78(3450-3550)	30	20	636000	25@12	DFT_BPSK	20.50	20.47
n78(3450-3550)	30	20	636000	1@1	DFT_BPSK	20.50	20.31
n78(3450-3550)	30	20	636000	1@49	DFT_BPSK	20.50	20.37
n78(3450-3550)	30	20	636000	50@0	DFT_QPSK	19.50	19.46
n78(3450-3550)	30	20	636000	25@12	DFT_QPSK	20.50	20.46
n78(3450-3550)	30	20	636000	1@1	DFT_QPSK	20.50	20.32
n78(3450-3550)	30	20	636000	1@49	DFT_QPSK	20.50	20.40
n78(3450-3550)	30	20	636000	50@0	DFT_16QAM	18.50	18.43
n78(3450-3550)	30	20	636000	25@12	DFT_16QAM	19.50	19.45
n78(3450-3550)	30	20	636000	1@1	DFT_16QAM	19.50	19.28
n78(3450-3550)	30	20	636000	1@49	DFT_16QAM	19.50	19.37
n78(3450-3550)	30	20	636000	50@0	DFT_64QAM	18.00	17.96

n78(3450-3550)	30	20	636000	25@12	DFT_64QAM	18.00	17.98
n78(3450-3550)	30	20	636000	1@1	DFT_64QAM	18.00	17.66
n78(3450-3550)	30	20	636000	1@49	DFT_64QAM	18.00	17.76
n78(3450-3550)	30	20	636000	50@0	DFT_256QAM	16.00	15.89
n78(3450-3550)	30	20	636000	25@12	DFT_256QAM	16.00	15.92
n78(3450-3550)	30	20	636000	1@1	DFT_256QAM	16.00	15.88
n78(3450-3550)	30	20	636000	1@49	DFT_256QAM	16.00	15.96
n78(3450-3550)	30	20	636000	51@0	CP_QPSK	17.50	17.44
n78(3450-3550)	30	20	636000	25@12	CP_QPSK	19.00	18.95
n78(3450-3550)	30	20	636000	1@1	CP_QPSK	19.00	18.81
n78(3450-3550)	30	20	636000	1@49	CP_QPSK	19.00	18.89
n78(3450-3550)	30	20	636000	51@0	CP_16QAM	17.50	17.42
n78(3450-3550)	30	20	636000	25@12	CP_16QAM	18.50	18.46
n78(3450-3550)	30	20	636000	1@1	CP_16QAM	18.50	18.35
n78(3450-3550)	30	20	636000	1@49	CP_16QAM	18.50	18.41
n78(3450-3550)	30	20	636000	51@0	CP_64QAM	17.00	16.90
n78(3450-3550)	30	20	636000	25@12	CP_64QAM	17.00	16.95
n78(3450-3550)	30	20	636000	1@1	CP_64QAM	17.00	16.65
n78(3450-3550)	30	20	636000	1@49	CP_64QAM	17.00	16.74
n78(3450-3550)	30	20	636000	51@0	CP_256QAM	14.00	13.95
n78(3450-3550)	30	20	636000	25@12	CP_256QAM	14.00	13.99
n78(3450-3550)	30	20	636000	1@1	CP_256QAM	14.00	13.97
n78(3450-3550)	30	20	636000	1@49	CP_256QAM	14.50	14.06
n78(3450-3550)	30	40	631334	100@0	DFT_BPSK	23.00	22.75
n78(3450-3550)	30	40	631334	50@25	DFT_BPSK	23.50	23.32
n78(3450-3550)	30	40	631334	1@1	DFT_BPSK	23.00	22.85
n78(3450-3550)	30	40	631334	1@104	DFT_BPSK	23.00	22.72
n78(3450-3550)	30	40	631334	100@0	DFT_QPSK	22.50	22.24
n78(3450-3550)	30	40	631334	50@25	DFT_QPSK	23.50	23.31
n78(3450-3550)	30	40	631334	1@1	DFT_QPSK	23.00	22.87

n78(3450-3550)	30	40	631334	1@104	DFT_QPSK	23.00	22.76
n78(3450-3550)	30	40	631334	100@0	DFT_16QAM	21.50	21.22
n78(3450-3550)	30	40	631334	50@25	DFT_16QAM	22.50	22.29
n78(3450-3550)	30	40	631334	1@1	DFT_16QAM	22.00	21.91
n78(3450-3550)	30	40	631334	1@104	DFT_16QAM	22.00	21.78
n78(3450-3550)	30	40	631334	100@0	DFT_64QAM	21.00	20.73
n78(3450-3550)	30	40	631334	50@25	DFT_64QAM	21.00	20.82
n78(3450-3550)	30	40	631334	1@1	DFT_64QAM	20.50	20.32
n78(3450-3550)	30	40	631334	1@104	DFT_64QAM	20.50	20.08
n78(3450-3550)	30	40	631334	100@0	DFT_256QAM	19.00	18.73
n78(3450-3550)	30	40	631334	50@25	DFT_256QAM	19.00	18.76
n78(3450-3550)	30	40	631334	1@1	DFT_256QAM	19.00	18.52
n78(3450-3550)	30	40	631334	1@104	DFT_256QAM	18.50	18.32
n78(3450-3550)	30	40	631334	106@0	CP_QPSK	20.50	20.16
n78(3450-3550)	30	40	631334	53@26	CP_QPSK	22.00	21.75
n78(3450-3550)	30	40	631334	1@1	CP_QPSK	21.50	21.36
n78(3450-3550)	30	40	631334	1@104	CP_QPSK	21.50	21.27
n78(3450-3550)	30	40	631334	106@0	CP_16QAM	20.50	20.18
n78(3450-3550)	30	40	631334	53@26	CP_16QAM	21.50	21.30
n78(3450-3550)	30	40	631334	1@1	CP_16QAM	21.00	20.93
n78(3450-3550)	30	40	631334	1@104	CP_16QAM	21.00	20.76
n78(3450-3550)	30	40	631334	106@0	CP_64QAM	20.00	19.65
n78(3450-3550)	30	40	631334	53@26	CP_64QAM	20.00	19.74
n78(3450-3550)	30	40	631334	1@1	CP_64QAM	19.50	19.27
n78(3450-3550)	30	40	631334	1@104	CP_64QAM	19.50	19.11
n78(3450-3550)	30	40	631334	106@0	CP_256QAM	17.00	16.68
n78(3450-3550)	30	40	631334	53@26	CP_256QAM	17.00	16.76
n78(3450-3550)	30	40	631334	1@1	CP_256QAM	16.50	16.50
n78(3450-3550)	30	40	631334	1@104	CP_256QAM	16.50	16.33
n78(3450-3550)	30	40	633334	100@0	DFT_BPSK	23.00	22.54

n78(3450-3550)	30	40	633334	50@25	DFT_BPSK	23.50	23.15
n78(3450-3550)	30	40	633334	1@1	DFT_BPSK	23.00	22.64
n78(3450-3550)	30	40	633334	1@104	DFT_BPSK	23.00	22.57
n78(3450-3550)	30	40	633334	100@0	DFT_QPSK	22.50	22.04
n78(3450-3550)	30	40	633334	50@25	DFT_QPSK	23.50	23.16
n78(3450-3550)	30	40	633334	1@1	DFT_QPSK	23.00	22.64
n78(3450-3550)	30	40	633334	1@104	DFT_QPSK	23.00	22.59
n78(3450-3550)	30	40	633334	100@0	DFT_16QAM	21.50	21.05
n78(3450-3550)	30	40	633334	50@25	DFT_16QAM	22.50	22.11
n78(3450-3550)	30	40	633334	1@1	DFT_16QAM	22.00	21.76
n78(3450-3550)	30	40	633334	1@104	DFT_16QAM	22.00	21.64
n78(3450-3550)	30	40	633334	100@0	DFT_64QAM	21.00	20.55
n78(3450-3550)	30	40	633334	50@25	DFT_64QAM	21.00	20.65
n78(3450-3550)	30	40	633334	1@1	DFT_64QAM	20.00	19.98
n78(3450-3550)	30	40	633334	1@104	DFT_64QAM	20.00	19.95
n78(3450-3550)	30	40	633334	100@0	DFT_256QAM	19.00	18.54
n78(3450-3550)	30	40	633334	50@25	DFT_256QAM	19.00	18.60
n78(3450-3550)	30	40	633334	1@1	DFT_256QAM	18.50	18.28
n78(3450-3550)	30	40	633334	1@104	DFT_256QAM	18.50	18.22
n78(3450-3550)	30	40	633334	106@0	CP_QPSK	20.00	19.99
n78(3450-3550)	30	40	633334	53@26	CP_QPSK	22.00	21.59
n78(3450-3550)	30	40	633334	1@1	CP_QPSK	21.50	21.15
n78(3450-3550)	30	40	633334	1@104	CP_QPSK	21.50	21.11
n78(3450-3550)	30	40	633334	106@0	CP_16QAM	20.00	19.99
n78(3450-3550)	30	40	633334	53@26	CP_16QAM	21.50	21.11
n78(3450-3550)	30	40	633334	1@1	CP_16QAM	21.00	20.76
n78(3450-3550)	30	40	633334	1@104	CP_16QAM	21.00	20.70
n78(3450-3550)	30	40	633334	106@0	CP_64QAM	19.50	19.48
n78(3450-3550)	30	40	633334	53@26	CP_64QAM	20.00	19.58
n78(3450-3550)	30	40	633334	1@1	CP_64QAM	19.50	19.08

n78(3450-3550)	30	40	633334	1@104	CP_64QAM	19.50	19.01
n78(3450-3550)	30	40	633334	106@0	CP_256QAM	16.50	16.49
n78(3450-3550)	30	40	633334	53@26	CP_256QAM	17.00	16.59
n78(3450-3550)	30	40	633334	1@1	CP_256QAM	16.50	16.27
n78(3450-3550)	30	40	633334	1@104	CP_256QAM	16.50	16.22
n78(3450-3550)	30	40	635332	100@0	DFT_BPSK	23.00	22.79
n78(3450-3550)	30	40	635332	50@25	DFT_BPSK	23.50	23.35
n78(3450-3550)	30	40	635332	1@1	DFT_BPSK	23.00	22.68
n78(3450-3550)	30	40	635332	1@104	DFT_BPSK	23.50	23.05
n78(3450-3550)	30	40	635332	100@0	DFT_QPSK	22.50	22.29
n78(3450-3550)	30	40	635332	50@25	DFT_QPSK	23.50	23.37
n78(3450-3550)	30	40	635332	1@1	DFT_QPSK	23.00	22.68
n78(3450-3550)	30	40	635332	1@104	DFT_QPSK	23.50	23.05
n78(3450-3550)	30	40	635332	100@0	DFT_16QAM	21.50	21.27
n78(3450-3550)	30	40	635332	50@25	DFT_16QAM	22.50	22.35
n78(3450-3550)	30	40	635332	1@1	DFT_16QAM	22.00	21.75
n78(3450-3550)	30	40	635332	1@104	DFT_16QAM	22.50	22.10
n78(3450-3550)	30	40	635332	100@0	DFT_64QAM	21.00	20.81
n78(3450-3550)	30	40	635332	50@25	DFT_64QAM	21.00	20.88
n78(3450-3550)	30	40	635332	1@1	DFT_64QAM	20.50	20.13
n78(3450-3550)	30	40	635332	1@104	DFT_64QAM	20.50	20.41
n78(3450-3550)	30	40	635332	100@0	DFT_256QAM	19.00	18.78
n78(3450-3550)	30	40	635332	50@25	DFT_256QAM	19.00	18.81
n78(3450-3550)	30	40	635332	1@1	DFT_256QAM	18.50	18.29
n78(3450-3550)	30	40	635332	1@104	DFT_256QAM	19.00	18.65
n78(3450-3550)	30	40	635332	106@0	CP_QPSK	20.50	20.25
n78(3450-3550)	30	40	635332	53@26	CP_QPSK	22.00	21.85
n78(3450-3550)	30	40	635332	1@1	CP_QPSK	21.50	21.21
n78(3450-3550)	30	40	635332	1@104	CP_QPSK	22.00	21.53
n78(3450-3550)	30	40	635332	106@0	CP_16QAM	20.50	20.26

n78(3450-3550)	30	40	635332	53@26	CP_16QAM	21.50	21.36
n78(3450-3550)	30	40	635332	1@1	CP_16QAM	21.00	20.76
n78(3450-3550)	30	40	635332	1@104	CP_16QAM	21.50	21.12
n78(3450-3550)	30	40	635332	106@0	CP_64QAM	20.00	19.73
n78(3450-3550)	30	40	635332	53@26	CP_64QAM	20.00	19.85
n78(3450-3550)	30	40	635332	1@1	CP_64QAM	19.50	19.05
n78(3450-3550)	30	40	635332	1@104	CP_64QAM	19.50	19.47
n78(3450-3550)	30	40	635332	106@0	CP_256QAM	17.00	16.73
n78(3450-3550)	30	40	635332	53@26	CP_256QAM	17.00	16.86
n78(3450-3550)	30	40	635332	1@1	CP_256QAM	16.50	16.30
n78(3450-3550)	30	40	635332	1@104	CP_256QAM	17.00	16.67
n78(3450-3550)	30	50	631668	128@0	DFT_BPSK	23.00	22.73
n78(3450-3550)	30	50	631668	64@32	DFT_BPSK	23.50	23.27
n78(3450-3550)	30	50	631668	1@1	DFT_BPSK	23.50	23.15
n78(3450-3550)	30	50	631668	1@131	DFT_BPSK	23.50	23.01
n78(3450-3550)	30	50	631668	128@0	DFT_QPSK	22.50	22.25
n78(3450-3550)	30	50	631668	64@32	DFT_QPSK	23.50	23.28
n78(3450-3550)	30	50	631668	1@1	DFT_QPSK	23.50	23.15
n78(3450-3550)	30	50	631668	1@131	DFT_QPSK	23.50	23.01
n78(3450-3550)	30	50	631668	128@0	DFT_16QAM	21.50	21.26
n78(3450-3550)	30	50	631668	64@32	DFT_16QAM	22.50	22.27
n78(3450-3550)	30	50	631668	1@1	DFT_16QAM	22.50	22.19
n78(3450-3550)	30	50	631668	1@131	DFT_16QAM	22.50	22.03
n78(3450-3550)	30	50	631668	128@0	DFT_64QAM	21.00	20.75
n78(3450-3550)	30	50	631668	64@32	DFT_64QAM	21.00	20.77
n78(3450-3550)	30	50	631668	1@1	DFT_64QAM	21.00	20.56
n78(3450-3550)	30	50	631668	1@131	DFT_64QAM	20.50	20.41
n78(3450-3550)	30	50	631668	128@0	DFT_256QAM	19.00	18.73
n78(3450-3550)	30	50	631668	64@32	DFT_256QAM	19.00	18.76
n78(3450-3550)	30	50	631668	1@1	DFT_256QAM	19.00	18.74

n78(3450-3550)	30	50	631668	1@131	DFT_256QAM	19.00	18.62
n78(3450-3550)	30	50	631668	133@0	CP_QPSK	20.50	20.23
n78(3450-3550)	30	50	631668	67@33	CP_QPSK	22.00	21.73
n78(3450-3550)	30	50	631668	1@1	CP_QPSK	22.00	21.67
n78(3450-3550)	30	50	631668	1@131	CP_QPSK	22.00	21.51
n78(3450-3550)	30	50	631668	133@0	CP_16QAM	20.50	20.23
n78(3450-3550)	30	50	631668	67@33	CP_16QAM	21.50	21.24
n78(3450-3550)	30	50	631668	1@1	CP_16QAM	21.50	21.26
n78(3450-3550)	30	50	631668	1@131	CP_16QAM	21.50	21.09
n78(3450-3550)	30	50	631668	133@0	CP_64QAM	20.00	19.73
n78(3450-3550)	30	50	631668	67@33	CP_64QAM	20.00	19.70
n78(3450-3550)	30	50	631668	1@1	CP_64QAM	20.00	19.56
n78(3450-3550)	30	50	631668	1@131	CP_64QAM	19.50	19.40
n78(3450-3550)	30	50	631668	133@0	CP_256QAM	17.00	16.70
n78(3450-3550)	30	50	631668	67@33	CP_256QAM	17.00	16.73
n78(3450-3550)	30	50	631668	1@1	CP_256QAM	17.00	16.81
n78(3450-3550)	30	50	631668	1@131	CP_256QAM	17.00	16.64
n78(3450-3550)	30	50	633334	128@0	DFT_BPSK	23.00	22.58
n78(3450-3550)	30	50	633334	64@32	DFT_BPSK	23.50	23.19
n78(3450-3550)	30	50	633334	1@1	DFT_BPSK	23.00	22.92
n78(3450-3550)	30	50	633334	1@131	DFT_BPSK	23.00	22.98
n78(3450-3550)	30	50	633334	128@0	DFT_QPSK	22.50	22.09
n78(3450-3550)	30	50	633334	64@32	DFT_QPSK	23.50	23.18
n78(3450-3550)	30	50	633334	1@1	DFT_QPSK	23.00	22.91
n78(3450-3550)	30	50	633334	1@131	DFT_QPSK	23.00	22.95
n78(3450-3550)	30	50	633334	128@0	DFT_16QAM	21.50	21.09
n78(3450-3550)	30	50	633334	64@32	DFT_16QAM	22.50	22.17
n78(3450-3550)	30	50	633334	1@1	DFT_16QAM	22.00	21.98
n78(3450-3550)	30	50	633334	1@131	DFT_16QAM	22.00	22.00
n78(3450-3550)	30	50	633334	128@0	DFT_64QAM	21.00	20.59

n78(3450-3550)	30	50	633334	64@32	DFT_64QAM	21.00	20.67
n78(3450-3550)	30	50	633334	1@1	DFT_64QAM	20.50	20.24
n78(3450-3550)	30	50	633334	1@131	DFT_64QAM	20.50	20.25
n78(3450-3550)	30	50	633334	128@0	DFT_256QAM	19.00	18.59
n78(3450-3550)	30	50	633334	64@32	DFT_256QAM	19.00	18.63
n78(3450-3550)	30	50	633334	1@1	DFT_256QAM	19.00	18.57
n78(3450-3550)	30	50	633334	1@131	DFT_256QAM	19.00	18.61
n78(3450-3550)	30	50	633334	133@0	CP_QPSK	20.50	20.06
n78(3450-3550)	30	50	633334	67@33	CP_QPSK	22.00	21.61
n78(3450-3550)	30	50	633334	1@1	CP_QPSK	21.50	21.48
n78(3450-3550)	30	50	633334	1@131	CP_QPSK	21.50	21.48
n78(3450-3550)	30	50	633334	133@0	CP_16QAM	20.50	20.09
n78(3450-3550)	30	50	633334	67@33	CP_16QAM	21.50	21.14
n78(3450-3550)	30	50	633334	1@1	CP_16QAM	21.50	21.06
n78(3450-3550)	30	50	633334	1@131	CP_16QAM	21.50	21.07
n78(3450-3550)	30	50	633334	133@0	CP_64QAM	20.00	19.57
n78(3450-3550)	30	50	633334	67@33	CP_64QAM	20.00	19.61
n78(3450-3550)	30	50	633334	1@1	CP_64QAM	19.50	19.39
n78(3450-3550)	30	50	633334	1@131	CP_64QAM	19.50	19.39
n78(3450-3550)	30	50	633334	133@0	CP_256QAM	17.00	16.55
n78(3450-3550)	30	50	633334	67@33	CP_256QAM	17.00	16.66
n78(3450-3550)	30	50	633334	1@1	CP_256QAM	17.00	16.63
n78(3450-3550)	30	50	633334	1@131	CP_256QAM	17.00	16.61
n78(3450-3550)	30	50	635000	128@0	DFT_BPSK	23.00	22.81
n78(3450-3550)	30	50	635000	64@32	DFT_BPSK	23.50	23.35
n78(3450-3550)	30	50	635000	1@1	DFT_BPSK	23.50	23.07
n78(3450-3550)	30	50	635000	1@131	DFT_BPSK	23.50	23.29
n78(3450-3550)	30	50	635000	128@0	DFT_QPSK	22.50	22.32
n78(3450-3550)	30	50	635000	64@32	DFT_QPSK	23.50	23.36
n78(3450-3550)	30	50	635000	1@1	DFT_QPSK	23.50	23.10

n78(3450-3550)	30	50	635000	1@131	DFT_QPSK	23.50	23.30
n78(3450-3550)	30	50	635000	128@0	DFT_16QAM	21.50	21.33
n78(3450-3550)	30	50	635000	64@32	DFT_16QAM	22.50	22.36
n78(3450-3550)	30	50	635000	1@1	DFT_16QAM	22.50	22.15
n78(3450-3550)	30	50	635000	1@131	DFT_16QAM	22.50	22.36
n78(3450-3550)	30	50	635000	128@0	DFT_64QAM	21.00	20.82
n78(3450-3550)	30	50	635000	64@32	DFT_64QAM	21.00	20.85
n78(3450-3550)	30	50	635000	1@1	DFT_64QAM	20.50	20.47
n78(3450-3550)	30	50	635000	1@131	DFT_64QAM	21.00	20.66
n78(3450-3550)	30	50	635000	128@0	DFT_256QAM	19.00	18.81
n78(3450-3550)	30	50	635000	64@32	DFT_256QAM	19.00	18.83
n78(3450-3550)	30	50	635000	1@1	DFT_256QAM	19.00	18.75
n78(3450-3550)	30	50	635000	1@131	DFT_256QAM	19.00	18.97
n78(3450-3550)	30	50	635000	133@0	CP_QPSK	20.50	20.30
n78(3450-3550)	30	50	635000	67@33	CP_QPSK	22.00	21.81
n78(3450-3550)	30	50	635000	1@1	CP_QPSK	22.00	21.65
n78(3450-3550)	30	50	635000	1@131	CP_QPSK	22.00	21.87
n78(3450-3550)	30	50	635000	133@0	CP_16QAM	20.50	20.31
n78(3450-3550)	30	50	635000	67@33	CP_16QAM	21.50	21.30
n78(3450-3550)	30	50	635000	1@1	CP_16QAM	21.50	21.14
n78(3450-3550)	30	50	635000	1@131	CP_16QAM	21.50	21.33
n78(3450-3550)	30	50	635000	133@0	CP_64QAM	20.00	19.80
n78(3450-3550)	30	50	635000	67@33	CP_64QAM	20.00	19.77
n78(3450-3550)	30	50	635000	1@1	CP_64QAM	20.00	19.69
n78(3450-3550)	30	50	635000	1@131	CP_64QAM	20.00	19.92
n78(3450-3550)	30	50	635000	133@0	CP_256QAM	17.00	16.78
n78(3450-3550)	30	50	635000	67@33	CP_256QAM	17.00	16.82
n78(3450-3550)	30	50	635000	1@1	CP_256QAM	17.00	16.77
n78(3450-3550)	30	50	635000	1@131	CP_256QAM	17.00	17.00
n78(3450-3550)	30	60	632000	162@0	DFT_BPSK	23.00	22.75

n78(3450-3550)	30	60	632000	81@40	DFT_BPSK	23.50	23.28
n78(3450-3550)	30	60	632000	1@1	DFT_BPSK	23.50	23.08
n78(3450-3550)	30	60	632000	1@160	DFT_BPSK	23.00	22.80
n78(3450-3550)	30	60	632000	162@0	DFT_QPSK	22.50	22.25
n78(3450-3550)	30	60	632000	81@40	DFT_QPSK	23.50	23.24
n78(3450-3550)	30	60	632000	1@1	DFT_QPSK	23.50	23.10
n78(3450-3550)	30	60	632000	1@160	DFT_QPSK	23.00	22.82
n78(3450-3550)	30	60	632000	162@0	DFT_16QAM	21.50	21.22
n78(3450-3550)	30	60	632000	81@40	DFT_16QAM	22.50	22.28
n78(3450-3550)	30	60	632000	1@1	DFT_16QAM	22.00	21.95
n78(3450-3550)	30	60	632000	1@160	DFT_16QAM	22.00	21.69
n78(3450-3550)	30	60	632000	162@0	DFT_64QAM	21.00	20.74
n78(3450-3550)	30	60	632000	81@40	DFT_64QAM	21.00	20.75
n78(3450-3550)	30	60	632000	1@1	DFT_64QAM	21.00	20.52
n78(3450-3550)	30	60	632000	1@160	DFT_64QAM	20.50	20.22
n78(3450-3550)	30	60	632000	162@0	DFT_256QAM	19.00	18.77
n78(3450-3550)	30	60	632000	81@40	DFT_256QAM	19.00	18.72
n78(3450-3550)	30	60	632000	1@1	DFT_256QAM	19.00	18.84
n78(3450-3550)	30	60	632000	1@160	DFT_256QAM	19.00	18.58
n78(3450-3550)	30	60	632000	162@0	CP_QPSK	20.50	20.21
n78(3450-3550)	30	60	632000	81@40	CP_QPSK	22.00	21.74
n78(3450-3550)	30	60	632000	1@1	CP_QPSK	22.00	21.62
n78(3450-3550)	30	60	632000	1@160	CP_QPSK	21.50	21.33
n78(3450-3550)	30	60	632000	162@0	CP_16QAM	20.50	20.21
n78(3450-3550)	30	60	632000	81@40	CP_16QAM	21.50	21.26
n78(3450-3550)	30	60	632000	1@1	CP_16QAM	21.50	21.10
n78(3450-3550)	30	60	632000	1@160	CP_16QAM	21.00	20.83
n78(3450-3550)	30	60	632000	162@0	CP_64QAM	20.00	19.68
n78(3450-3550)	30	60	632000	81@40	CP_64QAM	20.00	19.72
n78(3450-3550)	30	60	632000	1@1	CP_64QAM	20.00	19.67

n78(3450-3550)	30	60	632000	1@160	CP_64QAM	19.50	19.39
n78(3450-3550)	30	60	632000	162@0	CP_256QAM	17.00	16.74
n78(3450-3550)	30	60	632000	81@40	CP_256QAM	17.00	16.70
n78(3450-3550)	30	60	632000	1@1	CP_256QAM	17.00	16.76
n78(3450-3550)	30	60	632000	1@160	CP_256QAM	16.50	16.50
n78(3450-3550)	30	60	633334	162@0	DFT_BPSK	23.00	22.55
n78(3450-3550)	30	60	633334	81@40	DFT_BPSK	23.50	23.14
n78(3450-3550)	30	60	633334	1@1	DFT_BPSK	23.00	22.97
n78(3450-3550)	30	60	633334	1@160	DFT_BPSK	23.00	22.95
n78(3450-3550)	30	60	633334	162@0	DFT_QPSK	22.50	22.08
n78(3450-3550)	30	60	633334	81@40	DFT_QPSK	23.50	23.13
n78(3450-3550)	30	60	633334	1@1	DFT_QPSK	23.00	22.93
n78(3450-3550)	30	60	633334	1@160	DFT_QPSK	23.00	22.94
n78(3450-3550)	30	60	633334	162@0	DFT_16QAM	21.50	21.06
n78(3450-3550)	30	60	633334	81@40	DFT_16QAM	22.50	22.15
n78(3450-3550)	30	60	633334	1@1	DFT_16QAM	22.00	21.99
n78(3450-3550)	30	60	633334	1@160	DFT_16QAM	22.50	22.01
n78(3450-3550)	30	60	633334	162@0	DFT_64QAM	21.00	20.57
n78(3450-3550)	30	60	633334	81@40	DFT_64QAM	21.00	20.62
n78(3450-3550)	30	60	633334	1@1	DFT_64QAM	20.50	20.25
n78(3450-3550)	30	60	633334	1@160	DFT_64QAM	20.50	20.26
n78(3450-3550)	30	60	633334	162@0	DFT_256QAM	19.00	18.57
n78(3450-3550)	30	60	633334	81@40	DFT_256QAM	19.00	18.64
n78(3450-3550)	30	60	633334	1@1	DFT_256QAM	19.00	18.61
n78(3450-3550)	30	60	633334	1@160	DFT_256QAM	19.00	18.61
n78(3450-3550)	30	60	633334	162@0	CP_QPSK	20.50	20.03
n78(3450-3550)	30	60	633334	81@40	CP_QPSK	22.00	21.60
n78(3450-3550)	30	60	633334	1@1	CP_QPSK	22.00	21.51
n78(3450-3550)	30	60	633334	1@160	CP_QPSK	22.00	21.51
n78(3450-3550)	30	60	633334	162@0	CP_16QAM	20.50	20.03

n78(3450-3550)	30	60	633334	81@40	CP_16QAM	21.50	21.13
n78(3450-3550)	30	60	633334	1@1	CP_16QAM	21.50	21.01
n78(3450-3550)	30	60	633334	1@160	CP_16QAM	21.00	21.00
n78(3450-3550)	30	60	633334	162@0	CP_64QAM	20.00	19.53
n78(3450-3550)	30	60	633334	81@40	CP_64QAM	20.00	19.59
n78(3450-3550)	30	60	633334	1@1	CP_64QAM	19.50	19.45
n78(3450-3550)	30	60	633334	1@160	CP_64QAM	19.50	19.46
n78(3450-3550)	30	60	633334	162@0	CP_256QAM	17.00	16.53
n78(3450-3550)	30	60	633334	81@40	CP_256QAM	17.00	16.61
n78(3450-3550)	30	60	633334	1@1	CP_256QAM	17.00	16.66
n78(3450-3550)	30	60	633334	1@160	CP_256QAM	17.00	16.67
n78(3450-3550)	30	60	634666	162@0	DFT_BPSK	23.00	22.78
n78(3450-3550)	30	60	634666	81@40	DFT_BPSK	23.50	23.32
n78(3450-3550)	30	60	634666	1@1	DFT_BPSK	23.50	23.04
n78(3450-3550)	30	60	634666	1@160	DFT_BPSK	23.50	23.23
n78(3450-3550)	30	60	634666	162@0	DFT_QPSK	22.50	22.27
n78(3450-3550)	30	60	634666	81@40	DFT_QPSK	23.50	23.31
n78(3450-3550)	30	60	634666	1@1	DFT_QPSK	23.50	23.04
n78(3450-3550)	30	60	634666	1@160	DFT_QPSK	23.50	23.21
n78(3450-3550)	30	60	634666	162@0	DFT_16QAM	21.50	21.28
n78(3450-3550)	30	60	634666	81@40	DFT_16QAM	22.50	22.29
n78(3450-3550)	30	60	634666	1@1	DFT_16QAM	22.50	22.06
n78(3450-3550)	30	60	634666	1@160	DFT_16QAM	22.50	22.27
n78(3450-3550)	30	60	634666	162@0	DFT_64QAM	21.00	20.79
n78(3450-3550)	30	60	634666	81@40	DFT_64QAM	21.00	20.78
n78(3450-3550)	30	60	634666	1@1	DFT_64QAM	20.50	20.30
n78(3450-3550)	30	60	634666	1@160	DFT_64QAM	20.50	20.47
n78(3450-3550)	30	60	634666	162@0	DFT_256QAM	19.00	18.79
n78(3450-3550)	30	60	634666	81@40	DFT_256QAM	19.00	18.78
n78(3450-3550)	30	60	634666	1@1	DFT_256QAM	19.00	18.69

n78(3450-3550)	30	60	634666	1@160	DFT_256QAM	19.00	18.87
n78(3450-3550)	30	60	634666	162@0	CP_QPSK	20.50	20.26
n78(3450-3550)	30	60	634666	81@40	CP_QPSK	22.00	21.76
n78(3450-3550)	30	60	634666	1@1	CP_QPSK	22.00	21.58
n78(3450-3550)	30	60	634666	1@160	CP_QPSK	22.00	21.75
n78(3450-3550)	30	60	634666	162@0	CP_16QAM	20.50	20.25
n78(3450-3550)	30	60	634666	81@40	CP_16QAM	21.50	21.29
n78(3450-3550)	30	60	634666	1@1	CP_16QAM	21.50	21.13
n78(3450-3550)	30	60	634666	1@160	CP_16QAM	21.50	21.31
n78(3450-3550)	30	60	634666	162@0	CP_64QAM	20.00	19.76
n78(3450-3550)	30	60	634666	81@40	CP_64QAM	20.00	19.74
n78(3450-3550)	30	60	634666	1@1	CP_64QAM	19.50	19.48
n78(3450-3550)	30	60	634666	1@160	CP_64QAM	20.00	19.70
n78(3450-3550)	30	60	634666	162@0	CP_256QAM	17.00	16.73
n78(3450-3550)	30	60	634666	81@40	CP_256QAM	17.00	16.77
n78(3450-3550)	30	60	634666	1@1	CP_256QAM	17.00	16.72
n78(3450-3550)	30	60	634666	1@160	CP_256QAM	17.00	16.91
n78(3450-3550)	30	70	632334	180@0	DFT_BPSK	23.00	22.68
n78(3450-3550)	30	70	632334	90@45	DFT_BPSK	23.50	23.27
n78(3450-3550)	30	70	632334	1@1	DFT_BPSK	23.00	22.95
n78(3450-3550)	30	70	632334	1@187	DFT_BPSK	23.00	22.70
n78(3450-3550)	30	70	632334	180@0	DFT_QPSK	22.50	22.19
n78(3450-3550)	30	70	632334	90@45	DFT_QPSK	23.50	23.22
n78(3450-3550)	30	70	632334	1@1	DFT_QPSK	23.00	22.94
n78(3450-3550)	30	70	632334	1@187	DFT_QPSK	23.00	22.70
n78(3450-3550)	30	70	632334	180@0	DFT_16QAM	21.50	21.22
n78(3450-3550)	30	70	632334	90@45	DFT_16QAM	22.50	22.23
n78(3450-3550)	30	70	632334	1@1	DFT_16QAM	22.50	22.01
n78(3450-3550)	30	70	632334	1@187	DFT_16QAM	22.00	21.77
n78(3450-3550)	30	70	632334	180@0	DFT_64QAM	21.00	20.65

n78(3450-3550)	30	70	632334	90@45	DFT_64QAM	21.00	20.71
n78(3450-3550)	30	70	632334	1@1	DFT_64QAM	20.50	20.15
n78(3450-3550)	30	70	632334	1@187	DFT_64QAM	20.00	19.92
n78(3450-3550)	30	70	632334	180@0	DFT_256QAM	19.00	18.74
n78(3450-3550)	30	70	632334	90@45	DFT_256QAM	19.00	18.77
n78(3450-3550)	30	70	632334	1@1	DFT_256QAM	19.00	18.63
n78(3450-3550)	30	70	632334	1@187	DFT_256QAM	18.50	18.39
n78(3450-3550)	30	70	632334	189@0	CP_QPSK	20.50	20.17
n78(3450-3550)	30	70	632334	95@47	CP_QPSK	22.00	21.72
n78(3450-3550)	30	70	632334	1@1	CP_QPSK	21.50	21.49
n78(3450-3550)	30	70	632334	1@187	CP_QPSK	21.50	21.27
n78(3450-3550)	30	70	632334	189@0	CP_16QAM	20.50	20.16
n78(3450-3550)	30	70	632334	95@47	CP_16QAM	21.50	21.21
n78(3450-3550)	30	70	632334	1@1	CP_16QAM	21.00	20.98
n78(3450-3550)	30	70	632334	1@187	CP_16QAM	21.00	20.74
n78(3450-3550)	30	70	632334	189@0	CP_64QAM	20.00	19.68
n78(3450-3550)	30	70	632334	95@47	CP_64QAM	20.00	19.74
n78(3450-3550)	30	70	632334	1@1	CP_64QAM	19.50	19.46
n78(3450-3550)	30	70	632334	1@187	CP_64QAM	19.50	19.20
n78(3450-3550)	30	70	632334	189@0	CP_256QAM	17.00	16.64
n78(3450-3550)	30	70	632334	95@47	CP_256QAM	17.00	16.71
n78(3450-3550)	30	70	632334	1@1	CP_256QAM	17.00	16.65
n78(3450-3550)	30	70	632334	1@187	CP_256QAM	16.50	16.41
n78(3450-3550)	30	70	633334	180@0	DFT_BPSK	23.00	22.60
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	23.50	23.17
n78(3450-3550)	30	70	633334	1@1	DFT_BPSK	23.00	22.90
n78(3450-3550)	30	70	633334	1@187	DFT_BPSK	23.00	22.89
n78(3450-3550)	30	70	633334	180@0	DFT_QPSK	22.50	22.10
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	23.50	23.13
n78(3450-3550)	30	70	633334	1@1	DFT_QPSK	23.00	22.89

n78(3450-3550)	30	70	633334	1@187	DFT_QPSK	23.00	22.89
n78(3450-3550)	30	70	633334	180@0	DFT_16QAM	21.50	21.13
n78(3450-3550)	30	70	633334	90@45	DFT_16QAM	22.50	22.14
n78(3450-3550)	30	70	633334	1@1	DFT_16QAM	22.00	21.99
n78(3450-3550)	30	70	633334	1@187	DFT_16QAM	22.00	21.98
n78(3450-3550)	30	70	633334	180@0	DFT_64QAM	21.00	20.56
n78(3450-3550)	30	70	633334	90@45	DFT_64QAM	21.00	20.63
n78(3450-3550)	30	70	633334	1@1	DFT_64QAM	20.50	20.13
n78(3450-3550)	30	70	633334	1@187	DFT_64QAM	20.50	20.13
n78(3450-3550)	30	70	633334	180@0	DFT_256QAM	19.00	18.66
n78(3450-3550)	30	70	633334	90@45	DFT_256QAM	19.00	18.68
n78(3450-3550)	30	70	633334	1@1	DFT_256QAM	19.00	18.56
n78(3450-3550)	30	70	633334	1@187	DFT_256QAM	19.00	18.59
n78(3450-3550)	30	70	633334	189@0	CP_QPSK	20.50	20.09
n78(3450-3550)	30	70	633334	95@47	CP_QPSK	22.00	21.59
n78(3450-3550)	30	70	633334	1@1	CP_QPSK	22.00	21.52
n78(3450-3550)	30	70	633334	1@187	CP_QPSK	21.50	21.47
n78(3450-3550)	30	70	633334	189@0	CP_16QAM	20.50	20.09
n78(3450-3550)	30	70	633334	95@47	CP_16QAM	21.50	21.11
n78(3450-3550)	30	70	633334	1@1	CP_16QAM	21.00	20.99
n78(3450-3550)	30	70	633334	1@187	CP_16QAM	21.00	20.93
n78(3450-3550)	30	70	633334	189@0	CP_64QAM	20.00	19.60
n78(3450-3550)	30	70	633334	95@47	CP_64QAM	20.00	19.66
n78(3450-3550)	30	70	633334	1@1	CP_64QAM	19.50	19.45
n78(3450-3550)	30	70	633334	1@187	CP_64QAM	19.50	19.44
n78(3450-3550)	30	70	633334	189@0	CP_256QAM	17.00	16.54
n78(3450-3550)	30	70	633334	95@47	CP_256QAM	17.00	16.59
n78(3450-3550)	30	70	633334	1@1	CP_256QAM	17.00	16.65
n78(3450-3550)	30	70	633334	1@187	CP_256QAM	17.00	16.61
n78(3450-3550)	30	70	634332	180@0	DFT_BPSK	23.00	22.68

n78(3450-3550)	30	70	634332	90@45	DFT_BPSK	23.50	23.20
n78(3450-3550)	30	70	634332	1@1	DFT_BPSK	23.00	22.77
n78(3450-3550)	30	70	634332	1@187	DFT_BPSK	23.00	22.99
n78(3450-3550)	30	70	634332	180@0	DFT_QPSK	22.50	22.17
n78(3450-3550)	30	70	634332	90@45	DFT_QPSK	23.50	23.17
n78(3450-3550)	30	70	634332	1@1	DFT_QPSK	23.00	22.80
n78(3450-3550)	30	70	634332	1@187	DFT_QPSK	23.00	23.00
n78(3450-3550)	30	70	634332	180@0	DFT_16QAM	21.50	21.19
n78(3450-3550)	30	70	634332	90@45	DFT_16QAM	22.50	22.18
n78(3450-3550)	30	70	634332	1@1	DFT_16QAM	22.00	21.87
n78(3450-3550)	30	70	634332	1@187	DFT_16QAM	22.50	22.08
n78(3450-3550)	30	70	634332	180@0	DFT_64QAM	21.00	20.65
n78(3450-3550)	30	70	634332	90@45	DFT_64QAM	21.00	20.64
n78(3450-3550)	30	70	634332	1@1	DFT_64QAM	20.50	20.08
n78(3450-3550)	30	70	634332	1@187	DFT_64QAM	20.50	20.27
n78(3450-3550)	30	70	634332	180@0	DFT_256QAM	19.00	18.73
n78(3450-3550)	30	70	634332	90@45	DFT_256QAM	19.00	18.71
n78(3450-3550)	30	70	634332	1@1	DFT_256QAM	18.50	18.47
n78(3450-3550)	30	70	634332	1@187	DFT_256QAM	19.00	18.66
n78(3450-3550)	30	70	634332	189@0	CP_QPSK	20.50	20.19
n78(3450-3550)	30	70	634332	95@47	CP_QPSK	22.00	21.69
n78(3450-3550)	30	70	634332	1@1	CP_QPSK	21.50	21.37
n78(3450-3550)	30	70	634332	1@187	CP_QPSK	22.00	21.59
n78(3450-3550)	30	70	634332	189@0	CP_16QAM	20.50	20.17
n78(3450-3550)	30	70	634332	95@47	CP_16QAM	21.50	21.19
n78(3450-3550)	30	70	634332	1@1	CP_16QAM	21.00	20.85
n78(3450-3550)	30	70	634332	1@187	CP_16QAM	21.50	21.06
n78(3450-3550)	30	70	634332	189@0	CP_64QAM	20.00	19.69
n78(3450-3550)	30	70	634332	95@47	CP_64QAM	20.00	19.73
n78(3450-3550)	30	70	634332	1@1	CP_64QAM	19.50	19.32

n78(3450-3550)	30	70	634332	1@187	CP_64QAM	20.00	19.51
n78(3450-3550)	30	70	634332	189@0	CP_256QAM	17.00	16.65
n78(3450-3550)	30	70	634332	95@47	CP_256QAM	17.00	16.67
n78(3450-3550)	30	70	634332	1@1	CP_256QAM	16.50	16.48
n78(3450-3550)	30	70	634332	1@187	CP_256QAM	17.00	16.74
n78(3450-3550)	30	80	632668	216@0	DFT_BPSK	23.00	22.63
n78(3450-3550)	30	80	632668	108@54	DFT_BPSK	23.50	23.23
n78(3450-3550)	30	80	632668	1@1	DFT_BPSK	23.00	22.82
n78(3450-3550)	30	80	632668	1@215	DFT_BPSK	23.00	22.83
n78(3450-3550)	30	80	632668	216@0	DFT_QPSK	22.50	22.13
n78(3450-3550)	30	80	632668	108@54	DFT_QPSK	23.50	23.22
n78(3450-3550)	30	80	632668	1@1	DFT_QPSK	23.00	22.81
n78(3450-3550)	30	80	632668	1@215	DFT_QPSK	23.00	22.86
n78(3450-3550)	30	80	632668	216@0	DFT_16QAM	21.50	21.13
n78(3450-3550)	30	80	632668	108@54	DFT_16QAM	22.50	22.25
n78(3450-3550)	30	80	632668	1@1	DFT_16QAM	22.00	21.88
n78(3450-3550)	30	80	632668	1@215	DFT_16QAM	22.00	21.92
n78(3450-3550)	30	80	632668	216@0	DFT_64QAM	21.00	20.60
n78(3450-3550)	30	80	632668	108@54	DFT_64QAM	21.00	20.71
n78(3450-3550)	30	80	632668	1@1	DFT_64QAM	20.50	20.10
n78(3450-3550)	30	80	632668	1@215	DFT_64QAM	20.50	20.12
n78(3450-3550)	30	80	632668	216@0	DFT_256QAM	19.00	18.67
n78(3450-3550)	30	80	632668	108@54	DFT_256QAM	19.00	18.72
n78(3450-3550)	30	80	632668	1@1	DFT_256QAM	18.50	18.48
n78(3450-3550)	30	80	632668	1@215	DFT_256QAM	19.00	18.55
n78(3450-3550)	30	80	632668	217@0	CP_QPSK	20.50	20.15
n78(3450-3550)	30	80	632668	109@54	CP_QPSK	22.00	21.70
n78(3450-3550)	30	80	632668	1@1	CP_QPSK	21.50	21.37
n78(3450-3550)	30	80	632668	1@215	CP_QPSK	21.50	21.42
n78(3450-3550)	30	80	632668	217@0	CP_16QAM	20.50	20.13

n78(3450-3550)	30	80	632668	109@54	CP_16QAM	21.50	21.20
n78(3450-3550)	30	80	632668	1@1	CP_16QAM	21.00	20.82
n78(3450-3550)	30	80	632668	1@215	CP_16QAM	21.00	20.90
n78(3450-3550)	30	80	632668	217@0	CP_64QAM	20.00	19.64
n78(3450-3550)	30	80	632668	109@54	CP_64QAM	20.00	19.76
n78(3450-3550)	30	80	632668	1@1	CP_64QAM	19.50	19.32
n78(3450-3550)	30	80	632668	1@215	CP_64QAM	19.50	19.37
n78(3450-3550)	30	80	632668	217@0	CP_256QAM	17.00	16.63
n78(3450-3550)	30	80	632668	109@54	CP_256QAM	17.00	16.72
n78(3450-3550)	30	80	632668	1@1	CP_256QAM	17.00	16.52
n78(3450-3550)	30	80	632668	1@215	CP_256QAM	17.00	16.53
n78(3450-3550)	30	80	633334	216@0	DFT_BPSK	23.00	22.58
n78(3450-3550)	30	80	633334	108@54	DFT_BPSK	23.50	23.16
n78(3450-3550)	30	80	633334	1@1	DFT_BPSK	23.00	22.83
n78(3450-3550)	30	80	633334	1@215	DFT_BPSK	23.00	22.82
n78(3450-3550)	30	80	633334	216@0	DFT_QPSK	22.50	22.12
n78(3450-3550)	30	80	633334	108@54	DFT_QPSK	23.50	23.12
n78(3450-3550)	30	80	633334	1@1	DFT_QPSK	23.00	22.84
n78(3450-3550)	30	80	633334	1@215	DFT_QPSK	23.00	22.82
n78(3450-3550)	30	80	633334	216@0	DFT_16QAM	21.50	21.10
n78(3450-3550)	30	80	633334	108@54	DFT_16QAM	22.50	22.15
n78(3450-3550)	30	80	633334	1@1	DFT_16QAM	22.00	21.93
n78(3450-3550)	30	80	633334	1@215	DFT_16QAM	22.00	21.89
n78(3450-3550)	30	80	633334	216@0	DFT_64QAM	21.00	20.58
n78(3450-3550)	30	80	633334	108@54	DFT_64QAM	21.00	20.62
n78(3450-3550)	30	80	633334	1@1	DFT_64QAM	20.50	20.07
n78(3450-3550)	30	80	633334	1@215	DFT_64QAM	20.50	20.05
n78(3450-3550)	30	80	633334	216@0	DFT_256QAM	19.00	18.64
n78(3450-3550)	30	80	633334	108@54	DFT_256QAM	19.00	18.66
n78(3450-3550)	30	80	633334	1@1	DFT_256QAM	18.50	18.49

n78(3450-3550)	30	80	633334	1@215	DFT_256QAM	18.50	18.49
n78(3450-3550)	30	80	633334	217@0	CP_QPSK	20.50	20.12
n78(3450-3550)	30	80	633334	109@54	CP_QPSK	22.00	21.60
n78(3450-3550)	30	80	633334	1@1	CP_QPSK	21.50	21.45
n78(3450-3550)	30	80	633334	1@215	CP_QPSK	21.50	21.37
n78(3450-3550)	30	80	633334	217@0	CP_16QAM	20.50	20.09
n78(3450-3550)	30	80	633334	109@54	CP_16QAM	21.50	21.10
n78(3450-3550)	30	80	633334	1@1	CP_16QAM	21.00	20.92
n78(3450-3550)	30	80	633334	1@215	CP_16QAM	21.00	20.83
n78(3450-3550)	30	80	633334	217@0	CP_64QAM	20.00	19.60
n78(3450-3550)	30	80	633334	109@54	CP_64QAM	20.00	19.67
n78(3450-3550)	30	80	633334	1@1	CP_64QAM	19.50	19.42
n78(3450-3550)	30	80	633334	1@215	CP_64QAM	19.50	19.38
n78(3450-3550)	30	80	633334	217@0	CP_256QAM	17.00	16.60
n78(3450-3550)	30	80	633334	109@54	CP_256QAM	17.00	16.60
n78(3450-3550)	30	80	633334	1@1	CP_256QAM	17.00	16.55
n78(3450-3550)	30	80	633334	1@215	CP_256QAM	16.50	16.48
n78(3450-3550)	30	80	634000	216@0	DFT_BPSK	23.00	22.61
n78(3450-3550)	30	80	634000	108@54	DFT_BPSK	23.50	23.17
n78(3450-3550)	30	80	634000	1@1	DFT_BPSK	23.00	22.73
n78(3450-3550)	30	80	634000	1@215	DFT_BPSK	23.00	22.92
n78(3450-3550)	30	80	634000	216@0	DFT_QPSK	22.50	22.08
n78(3450-3550)	30	80	634000	108@54	DFT_QPSK	23.50	23.15
n78(3450-3550)	30	80	634000	1@1	DFT_QPSK	23.00	22.77
n78(3450-3550)	30	80	634000	1@215	DFT_QPSK	23.00	22.95
n78(3450-3550)	30	80	634000	216@0	DFT_16QAM	21.50	21.13
n78(3450-3550)	30	80	634000	108@54	DFT_16QAM	22.50	22.15
n78(3450-3550)	30	80	634000	1@1	DFT_16QAM	22.00	21.64
n78(3450-3550)	30	80	634000	1@215	DFT_16QAM	22.00	21.83
n78(3450-3550)	30	80	634000	216@0	DFT_64QAM	21.00	20.59

n78(3450-3550)	30	80	634000	108@54	DFT_64QAM	21.00	20.63
n78(3450-3550)	30	80	634000	1@1	DFT_64QAM	20.50	20.06
n78(3450-3550)	30	80	634000	1@215	DFT_64QAM	20.50	20.29
n78(3450-3550)	30	80	634000	216@0	DFT_256QAM	19.00	18.62
n78(3450-3550)	30	80	634000	108@54	DFT_256QAM	19.00	18.66
n78(3450-3550)	30	80	634000	1@1	DFT_256QAM	19.00	18.52
n78(3450-3550)	30	80	634000	1@215	DFT_256QAM	19.00	18.67
n78(3450-3550)	30	80	634000	217@0	CP_QPSK	20.50	20.12
n78(3450-3550)	30	80	634000	109@54	CP_QPSK	22.00	21.61
n78(3450-3550)	30	80	634000	1@1	CP_QPSK	21.50	21.24
n78(3450-3550)	30	80	634000	1@215	CP_QPSK	21.50	21.43
n78(3450-3550)	30	80	634000	217@0	CP_16QAM	20.50	20.13
n78(3450-3550)	30	80	634000	109@54	CP_16QAM	21.50	21.12
n78(3450-3550)	30	80	634000	1@1	CP_16QAM	21.00	20.77
n78(3450-3550)	30	80	634000	1@215	CP_16QAM	21.00	20.94
n78(3450-3550)	30	80	634000	217@0	CP_64QAM	20.00	19.61
n78(3450-3550)	30	80	634000	109@54	CP_64QAM	20.00	19.67
n78(3450-3550)	30	80	634000	1@1	CP_64QAM	19.50	19.31
n78(3450-3550)	30	80	634000	1@215	CP_64QAM	20.00	19.52
n78(3450-3550)	30	80	634000	217@0	CP_256QAM	17.00	16.61
n78(3450-3550)	30	80	634000	109@54	CP_256QAM	17.00	16.62
n78(3450-3550)	30	80	634000	1@1	CP_256QAM	16.50	16.41
n78(3450-3550)	30	80	634000	1@215	CP_256QAM	17.00	16.60
n78(3450-3550)	30	90	633000	243@0	DFT_BPSK	23.00	22.64
n78(3450-3550)	30	90	633000	120@60	DFT_BPSK	23.50	23.20
n78(3450-3550)	30	90	633000	1@1	DFT_BPSK	23.00	22.66
n78(3450-3550)	30	90	633000	1@243	DFT_BPSK	23.00	22.72
n78(3450-3550)	30	90	633000	243@0	DFT_QPSK	22.50	22.15
n78(3450-3550)	30	90	633000	120@60	DFT_QPSK	23.50	23.19
n78(3450-3550)	30	90	633000	1@1	DFT_QPSK	23.00	22.69

n78(3450-3550)	30	90	633000	1@243	DFT_QPSK	23.00	22.76
n78(3450-3550)	30	90	633000	243@0	DFT_16QAM	21.50	21.15
n78(3450-3550)	30	90	633000	120@60	DFT_16QAM	22.50	22.14
n78(3450-3550)	30	90	633000	1@1	DFT_16QAM	22.00	21.71
n78(3450-3550)	30	90	633000	1@243	DFT_16QAM	22.00	21.76
n78(3450-3550)	30	90	633000	243@0	DFT_64QAM	21.00	20.62
n78(3450-3550)	30	90	633000	120@60	DFT_64QAM	21.00	20.65
n78(3450-3550)	30	90	633000	1@1	DFT_64QAM	20.00	19.91
n78(3450-3550)	30	90	633000	1@243	DFT_64QAM	20.00	19.98
n78(3450-3550)	30	90	633000	243@0	DFT_256QAM	19.00	18.68
n78(3450-3550)	30	90	633000	120@60	DFT_256QAM	19.00	18.71
n78(3450-3550)	30	90	633000	1@1	DFT_256QAM	18.50	18.39
n78(3450-3550)	30	90	633000	1@243	DFT_256QAM	18.50	18.43
n78(3450-3550)	30	90	633000	245@0	CP_QPSK	20.50	20.15
n78(3450-3550)	30	90	633000	123@61	CP_QPSK	22.00	21.60
n78(3450-3550)	30	90	633000	1@1	CP_QPSK	21.50	21.23
n78(3450-3550)	30	90	633000	1@243	CP_QPSK	21.50	21.26
n78(3450-3550)	30	90	633000	245@0	CP_16QAM	20.50	20.17
n78(3450-3550)	30	90	633000	123@61	CP_16QAM	21.50	21.13
n78(3450-3550)	30	90	633000	1@1	CP_16QAM	21.00	20.72
n78(3450-3550)	30	90	633000	1@243	CP_16QAM	21.00	20.75
n78(3450-3550)	30	90	633000	245@0	CP_64QAM	20.00	19.66
n78(3450-3550)	30	90	633000	123@61	CP_64QAM	20.00	19.65
n78(3450-3550)	30	90	633000	1@1	CP_64QAM	19.50	19.23
n78(3450-3550)	30	90	633000	1@243	CP_64QAM	19.50	19.26
n78(3450-3550)	30	90	633000	245@0	CP_256QAM	17.00	16.61
n78(3450-3550)	30	90	633000	123@61	CP_256QAM	17.00	16.58
n78(3450-3550)	30	90	633000	1@1	CP_256QAM	16.50	16.32
n78(3450-3550)	30	90	633000	1@243	CP_256QAM	16.50	16.38
n78(3450-3550)	30	90	633334	243@0	DFT_BPSK	23.00	22.59

n78(3450-3550)	30	90	633334	120@60	DFT_BPSK	23.50	23.14
n78(3450-3550)	30	90	633334	1@1	DFT_BPSK	23.00	22.64
n78(3450-3550)	30	90	633334	1@243	DFT_BPSK	23.00	22.67
n78(3450-3550)	30	90	633334	243@0	DFT_QPSK	22.50	22.08
n78(3450-3550)	30	90	633334	120@60	DFT_QPSK	23.50	23.13
n78(3450-3550)	30	90	633334	1@1	DFT_QPSK	23.00	22.65
n78(3450-3550)	30	90	633334	1@243	DFT_QPSK	23.00	22.70
n78(3450-3550)	30	90	633334	243@0	DFT_16QAM	21.50	21.09
n78(3450-3550)	30	90	633334	120@60	DFT_16QAM	22.50	22.10
n78(3450-3550)	30	90	633334	1@1	DFT_16QAM	22.00	21.71
n78(3450-3550)	30	90	633334	1@243	DFT_16QAM	22.00	21.73
n78(3450-3550)	30	90	633334	243@0	DFT_64QAM	21.00	20.55
n78(3450-3550)	30	90	633334	120@60	DFT_64QAM	21.00	20.61
n78(3450-3550)	30	90	633334	1@1	DFT_64QAM	20.00	19.94
n78(3450-3550)	30	90	633334	1@243	DFT_64QAM	20.00	20.00
n78(3450-3550)	30	90	633334	243@0	DFT_256QAM	19.00	18.60
n78(3450-3550)	30	90	633334	120@60	DFT_256QAM	19.00	18.68
n78(3450-3550)	30	90	633334	1@1	DFT_256QAM	18.50	18.36
n78(3450-3550)	30	90	633334	1@243	DFT_256QAM	18.50	18.37
n78(3450-3550)	30	90	633334	245@0	CP_QPSK	20.50	20.09
n78(3450-3550)	30	90	633334	123@61	CP_QPSK	22.00	21.55
n78(3450-3550)	30	90	633334	1@1	CP_QPSK	21.50	21.19
n78(3450-3550)	30	90	633334	1@243	CP_QPSK	21.50	21.19
n78(3450-3550)	30	90	633334	245@0	CP_16QAM	20.50	20.09
n78(3450-3550)	30	90	633334	123@61	CP_16QAM	21.50	21.06
n78(3450-3550)	30	90	633334	1@1	CP_16QAM	21.00	20.71
n78(3450-3550)	30	90	633334	1@243	CP_16QAM	21.00	20.72
n78(3450-3550)	30	90	633334	245@0	CP_64QAM	20.00	19.58
n78(3450-3550)	30	90	633334	123@61	CP_64QAM	20.00	19.59
n78(3450-3550)	30	90	633334	1@1	CP_64QAM	19.50	19.16

n78(3450-3550)	30	90	633334	1@243	CP_64QAM	19.50	19.20
n78(3450-3550)	30	90	633334	245@0	CP_256QAM	17.00	16.53
n78(3450-3550)	30	90	633334	123@61	CP_256QAM	17.00	16.58
n78(3450-3550)	30	90	633334	1@1	CP_256QAM	16.50	16.32
n78(3450-3550)	30	90	633334	1@243	CP_256QAM	16.50	16.35
n78(3450-3550)	30	90	633666	243@0	DFT_BPSK	23.00	22.60
n78(3450-3550)	30	90	633666	120@60	DFT_BPSK	23.50	23.17
n78(3450-3550)	30	90	633666	1@1	DFT_BPSK	23.00	22.75
n78(3450-3550)	30	90	633666	1@243	DFT_BPSK	23.00	22.81
n78(3450-3550)	30	90	633666	243@0	DFT_QPSK	22.50	22.12
n78(3450-3550)	30	90	633666	120@60	DFT_QPSK	23.50	23.17
n78(3450-3550)	30	90	633666	1@1	DFT_QPSK	23.00	22.77
n78(3450-3550)	30	90	633666	1@243	DFT_QPSK	23.00	22.81
n78(3450-3550)	30	90	633666	243@0	DFT_16QAM	21.50	21.10
n78(3450-3550)	30	90	633666	120@60	DFT_16QAM	22.50	22.14
n78(3450-3550)	30	90	633666	1@1	DFT_16QAM	22.00	21.79
n78(3450-3550)	30	90	633666	1@243	DFT_16QAM	22.00	21.86
n78(3450-3550)	30	90	633666	243@0	DFT_64QAM	21.00	20.60
n78(3450-3550)	30	90	633666	120@60	DFT_64QAM	21.00	20.64
n78(3450-3550)	30	90	633666	1@1	DFT_64QAM	20.50	20.09
n78(3450-3550)	30	90	633666	1@243	DFT_64QAM	20.50	20.11
n78(3450-3550)	30	90	633666	243@0	DFT_256QAM	19.00	18.66
n78(3450-3550)	30	90	633666	120@60	DFT_256QAM	19.00	18.69
n78(3450-3550)	30	90	633666	1@1	DFT_256QAM	18.50	18.46
n78(3450-3550)	30	90	633666	1@243	DFT_256QAM	18.50	18.49
n78(3450-3550)	30	90	633666	245@0	CP_QPSK	20.50	20.13
n78(3450-3550)	30	90	633666	123@61	CP_QPSK	22.00	21.59
n78(3450-3550)	30	90	633666	1@1	CP_QPSK	21.50	21.28
n78(3450-3550)	30	90	633666	1@243	CP_QPSK	21.50	21.39
n78(3450-3550)	30	90	633666	245@0	CP_16QAM	20.50	20.11

n78(3450-3550)	30	90	633666	123@61	CP_16QAM	21.50	21.09
n78(3450-3550)	30	90	633666	1@1	CP_16QAM	21.00	20.80
n78(3450-3550)	30	90	633666	1@243	CP_16QAM	21.00	20.93
n78(3450-3550)	30	90	633666	245@0	CP_64QAM	20.00	19.61
n78(3450-3550)	30	90	633666	123@61	CP_64QAM	20.00	19.65
n78(3450-3550)	30	90	633666	1@1	CP_64QAM	19.50	19.27
n78(3450-3550)	30	90	633666	1@243	CP_64QAM	19.50	19.38
n78(3450-3550)	30	90	633666	245@0	CP_256QAM	17.00	16.60
n78(3450-3550)	30	90	633666	123@61	CP_256QAM	17.00	16.57
n78(3450-3550)	30	90	633666	1@1	CP_256QAM	16.50	16.45
n78(3450-3550)	30	90	633666	1@243	CP_256QAM	17.00	16.58
n78(3450-3550)	30	100	633334	270@0	DFT_BPSK	23.00	22.51
n78(3450-3550)	30	100	633334	135@67	DFT_BPSK	23.50	23.11
n78(3450-3550)	30	100	633334	1@1	DFT_BPSK	22.50	22.47
n78(3450-3550)	30	100	633334	1@271	DFT_BPSK	23.00	22.66
n78(3450-3550)	30	100	633334	270@0	DFT_QPSK	22.50	22.02
n78(3450-3550)	30	100	633334	135@67	DFT_QPSK	23.50	23.12
n78(3450-3550)	30	100	633334	1@1	DFT_QPSK	22.50	22.49
n78(3450-3550)	30	100	633334	1@271	DFT_QPSK	23.00	22.68
n78(3450-3550)	30	100	633334	270@0	DFT_16QAM	21.50	21.01
n78(3450-3550)	30	100	633334	135@67	DFT_16QAM	22.50	22.10
n78(3450-3550)	30	100	633334	1@1	DFT_16QAM	22.00	21.55
n78(3450-3550)	30	100	633334	1@271	DFT_16QAM	22.00	21.72
n78(3450-3550)	30	100	633334	270@0	DFT_64QAM	20.50	20.49
n78(3450-3550)	30	100	633334	135@67	DFT_64QAM	21.00	20.60
n78(3450-3550)	30	100	633334	1@1	DFT_64QAM	20.00	19.76
n78(3450-3550)	30	100	633334	1@271	DFT_64QAM	20.00	19.92
n78(3450-3550)	30	100	633334	270@0	DFT_256QAM	19.00	18.57
n78(3450-3550)	30	100	633334	135@67	DFT_256QAM	19.00	18.68
n78(3450-3550)	30	100	633334	1@1	DFT_256QAM	18.50	18.22

n78(3450-3550)	30	100	633334	1@271	DFT_256QAM	18.50	18.37
n78(3450-3550)	30	100	633334	273@0	CP_QPSK	20.50	20.08
n78(3450-3550)	30	100	633334	137@68	CP_QPSK	22.00	21.58
n78(3450-3550)	30	100	633334	1@1	CP_QPSK	21.00	20.99
n78(3450-3550)	30	100	633334	1@271	CP_QPSK	21.50	21.17
n78(3450-3550)	30	100	633334	273@0	CP_16QAM	20.50	20.08
n78(3450-3550)	30	100	633334	137@68	CP_16QAM	21.50	21.10
n78(3450-3550)	30	100	633334	1@1	CP_16QAM	21.00	20.54
n78(3450-3550)	30	100	633334	1@271	CP_16QAM	21.00	20.67
n78(3450-3550)	30	100	633334	273@0	CP_64QAM	20.00	19.55
n78(3450-3550)	30	100	633334	137@68	CP_64QAM	20.00	19.61
n78(3450-3550)	30	100	633334	1@1	CP_64QAM	19.50	19.07
n78(3450-3550)	30	100	633334	1@271	CP_64QAM	19.50	19.25
n78(3450-3550)	30	100	633334	273@0	CP_256QAM	17.00	16.59
n78(3450-3550)	30	100	633334	137@68	CP_256QAM	17.00	16.60
n78(3450-3550)	30	100	633334	1@1	CP_256QAM	16.50	16.18
n78(3450-3550)	30	100	633334	1@271	CP_256QAM	16.50	16.33

7.5. WLAN & Bluetooth Output Power

7.5.1. Output Power Results Of WLAN

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)
			Ant1		Ant2		MIMO	
802.11b	1	2412	17.00	16.58	17.00	16.54	/	/
	6	2437	17.00	16.43	17.00	16.62	/	/
	11	2462	17.00	16.58	17.00	16.30	/	/
802.11g	1	2412	14.50	14.41	14.00	13.68	/	/
	6	2437	14.50	14.15	14.00	13.91	/	/
	11	2462	14.50	14.30	14.00	13.61	/	/
802.11n HT20	1	2412	12.50	12.38	12.00	11.77	15.50	15.49
	6	2437	12.50	11.99	12.00	11.85	15.50	15.43

	11	2462	12.50	12.16	12.00	11.58	15.50	15.18
802.11n HT40	3	2422	12.50	11.78	12.50	12.04	16.00	15.43
	6	2437	12.50	12.01	12.50	12.12	16.00	15.56
	9	2452	12.50	12.41	12.50	11.98	16.00	15.68
802.11ax HE20	1	2412	12.50	12.14	12.50	12.04	16.00	15.55
	6	2437	12.50	12.08	12.50	12.11	16.00	15.56
	11	2462	12.50	12.24	12.50	11.84	16.00	15.53
802.11ax HE40	3	2422	12.50	12.11	12.50	12.28	16.00	15.54
	6	2437	12.50	12.12	12.50	12.28	16.00	15.78
	9	2452	12.50	12.40	12.50	12.18	16.00	15.81

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)
			Ant1		Ant2		MIMO	
802.11a	36	5180	9.00	8.31	10.50	9.69	/	/
	40	5200	9.00	8.35	10.50	10.01	/	/
	48	5240	9.00	8.90	10.50	10.11	/	/
802.11n HT20	36	5180	9.00	7.88	10.00	9.50	13.00	11.99
	40	5200	9.00	8.25	10.00	9.86	13.00	12.24
	48	5240	9.00	8.80	10.00	9.95	13.00	12.56
802.11n HT40	38	5190	9.00	8.13	10.50	9.76	13.00	12.32
	46	5230	9.00	8.87	10.50	10.05	13.00	12.58
802.11ac VHT20	36	5180	9.00	8.06	10.00	9.50	13.00	11.93
	40	5200	9.00	8.40	10.00	9.84	13.00	12.34
	48	5240	9.00	8.84	10.00	9.94	13.00	12.64
802.11ac VHT40	38	5190	9.00	8.39	10.50	9.76	13.00	12.30
	46	5230	9.00	8.84	10.50	10.04	13.00	12.70
802.11ac VHT80	42	5210	8.50	8.30	10.00	9.71	12.50	12.27
802.11ax HE20	36	5180	9.00	8.11	10.50	9.67	13.00	12.06
	40	5200	9.00	8.36	10.50	10.00	13.00	12.47
	48	5240	9.00	8.92	10.50	10.10	13.00	12.76
802.11ax HE40	38	5190	9.50	8.71	10.50	9.97	13.00	12.48
	46	5230	9.50	9.05	10.50	10.31	13.00	12.87
802.11ax HE80	42	5210	8.50	8.44	10.00	9.99	13.00	12.54

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)
			Ant1		Ant2		MIMO	
802.11a	52	5260	9.00	8.24	9.50	9.39	/	/
	56	5280	9.00	8.33	9.50	9.36	/	/
	64	5320	9.00	8.58	9.50	8.95	/	/
802.11n HT20	52	5260	9.00	8.08	9.50	9.26	12.50	11.40
	56	5280	9.00	8.20	9.50	9.16	12.50	11.62
	64	5320	9.00	8.51	9.50	8.88	12.50	12.13
802.11n HT40	54	5270	9.00	8.30	9.50	9.33	12.50	11.67
	62	5310	9.00	8.53	9.50	9.03	12.50	12.12
802.11ac VHT20	52	5260	8.50	7.88	9.50	9.22	12.50	11.51
	56	5280	8.50	8.14	9.50	9.23	12.50	11.73
	64	5320	8.50	8.43	9.50	8.86	12.50	12.13
802.11ac VHT40	54	5270	9.00	8.23	9.50	9.32	12.50	11.68
	62	5310	9.00	8.55	9.50	9.13	12.50	12.10
802.11ac VHT80	58	5290	8.50	8.29	9.50	9.02	12.00	11.71
802.11ax HE20	52	5260	9.00	8.29	9.50	9.49	12.50	11.68
	56	5280	9.00	8.15	9.50	9.44	12.50	11.90
	64	5320	9.00	8.72	9.50	9.03	12.50	12.34
802.11ax HE40	54	5270	9.00	8.40	10.00	9.53	12.50	11.99
	62	5310	9.00	8.78	10.00	9.28	12.50	12.38
802.11ax HE80	58	5290	8.50	8.38	9.50	9.33	12.50	12.04

NOTE: Power measurement results of WLAN 5.3G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)	Tune-up (dBm)	Output Power (dBm)
			Ant1		Ant2		MIMO	
802.11a	149	5745	8.00	7.68	11.50	10.72	/	/
	157	5785	8.00	7.71	11.50	10.78	/	/
	165	5825	8.00	6.98	11.50	11.01	/	/
802.11n HT20	149	5745	8.00	7.69	11.00	10.58	13.00	12.64
	157	5785	8.00	7.53	11.00	10.58	13.00	12.7
	165	5825	8.00	6.89	11.00	10.84	13.00	12.53
802.11n	151	5755	8.50	8.07	11.00	10.74	13.00	12.83

HT40	159	5795	8.50	7.61	11.00	10.77	13.00	12.78
802.11ac VHT20	149	5745	8.00	7.41	11.00	10.63	13.00	12.63
	157	5785	8.00	7.71	11.00	10.59	13.00	12.79
	165	5825	8.00	7.05	11.00	10.86	13.00	12.54
802.11ac VHT40	151	5755	8.00	7.91	11.00	10.74	13.00	12.81
	159	5795	8.00	7.83	11.00	10.76	13.00	12.7
802.11ac VHT80	155	5775	8.00	7.57	10.50	10.47	12.50	12.49
802.11ax HE20	149	5745	8.00	7.77	11.00	10.76	13.00	12.88
	157	5785	8.00	7.74	11.00	10.73	13.00	12.88
	165	5825	8.00	7.11	11.00	10.96	13.00	12.73
802.11ax HE40	151	5755	8.50	8.03	11.00	10.98	13.50	13.01
	159	5795	8.50	8.09	11.00	10.96	13.50	13.05
802.11ax HE80	155	5775	8.00	7.97	11.00	10.75	13.00	12.9

NOTE: Power measurement results of WLAN 5.8G.

7.5.2. Output Power Results Of Bluetooth

BLE	Output Power (dBm)				
	Data Rates	Tune-up (dBm)	Channe		
			0CH	19CH	39CH
	1M	6.50	5.76	6.46	5.64
	2M	7.00	5.86	6.50	5.90

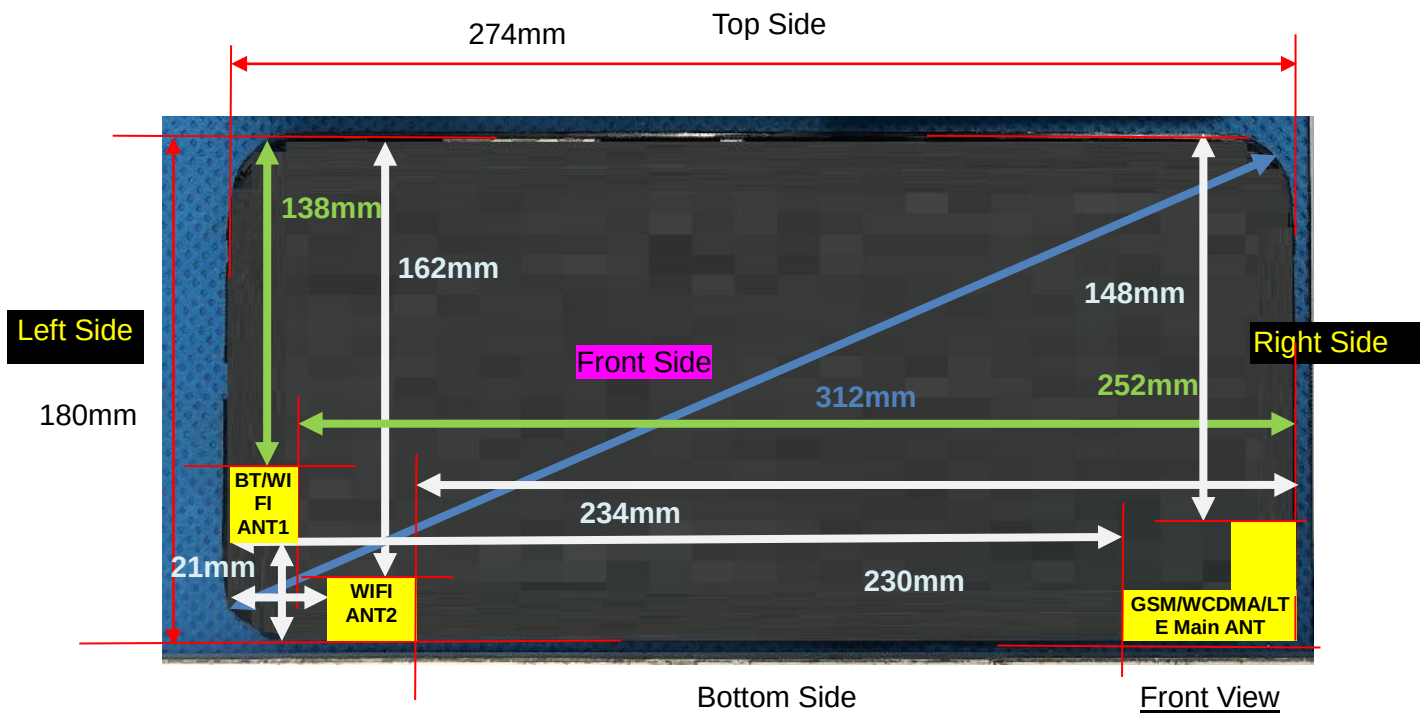
BR+EDR	Output Power (dBm)				
	Data Rates	Tune-up (dBm)	Channel		
			0CH	39CH	78CH
	1M	7.00	5.28	6.04	5.26
	2M	7.00	5.22	6.20	5.57
	3M	7.00	5.98	6.68	5.99

Output Power Results Of Bluetooth

7.6. NFC

Channel Freq (MHz)	Min Distance (mm)	Max power (dBm)	tune-up power (dBm)	Max power (mW)	Limits (mW)	SAR Test Exclusion
13.56	0	-32.67	-32.67 ± 1	0.00068	443	Yes

8. Antenna Location



Note: Since the confidentiality request of EUT, the antenna location example diagram see as above.

Distance of the Antenna to the EUT surface/edge						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
WLAN & Bluetooth Ant1	5	5	5	252	138	21
WLAN Ant2	5	5	5	234	162	21
WWAN Ant0	5	5	230	5	148	5

Note: When the minimum separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Positions for WLAN & Bluetooth Ant1 SAR tests		
Test separation distances ≤ 50 mm		
Exposure Positions	Tune-up Maximum power of WLAN 2.4G	
	17.00dBm	50.12mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5

	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	21.00
	SAR exclusion threshold (mW)	38
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WLAN 5.2G	
	9.50dBm	8.91mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	21
	SAR exclusion threshold (mW)	26.00
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.3G	
	9.00dBm	7.94mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	21
	SAR exclusion threshold (mW)	26.00
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.6G	
	8.50dBm	7.08mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00

	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	21
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.8G	
	8.50dBm	7.08mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	6.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	6.00
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	6.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	21
	SAR exclusion threshold (mW)	25.00
	SAR testing required?	NO
Positions for WLAN Ant2 SAR tests		
Test separation distances $\leq$ 50 mm		
Exposure Positions	Tune-up Maximum power of WLAN 2.4G	
	17.00dBm	50.12mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Left Side	Antenna to user(mm)	21
	SAR exclusion threshold (mW)	38
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WLAN 5.2G	
	10.50dBm	11.22mW
Front Side	Antenna to user(mm)	5

	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Left Side	Antenna to user(mm)	21
	SAR exclusion threshold (mW)	26.00
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WLAN 5.3G	
	10.00dBm	10.00mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Left Side	Antenna to user(mm)	21
	SAR exclusion threshold (mW)	NO
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WLAN 5.6G	
	10.50dBm	11.22mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	6.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	6.00
	SAR testing required?	YES
Left Side	Antenna to user(mm)	21
	SAR exclusion threshold (mW)	26
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	6.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WLAN 5.8G	

	11.50dBm	14.13mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	6.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	6.00
	SAR testing required?	YES
Left Side	Antenna to user(mm)	21
	SAR exclusion threshold (mW)	25
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	6.00
	SAR testing required?	YES

Positions for WWAN Ant0 SAR tests		
Test separation distances $\leq$ 50 mm		
Exposure Positions	Tune-up Maximum power of GSM 850	
	29.50dBm	891.25 mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	131
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of GSM 1900	
	25.50dBm	354.81 mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	5

	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band 2	
	21.00dBm	125.89mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band 5	
	21.00dBm	125.89mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 2	
	23.50dBm	223.87 mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5

	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 4	
	21.50dBm	141.25 mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 5	
	21.50dBm	141.25 mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 17	
	23.50dBm	223.87mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00

	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 41	
	25.00dBm	316.23mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES

NOTE: Refer to section 4.3.1 of KDB 447498 D01.

Positions for WLAN & Bluetooth Ant1 SAR tests		
Test separation distances > 50 mm		
Exposure Positions	Tune-up Maximum power of WLAN 2.4G	
	17.00dBm	50.12mW
Right Side	Antenna to user(mm)	252
	SAR exclusion threshold (mW)	2116
	SAR testing required?	NO
Top Side	Antenna to user(mm)	138
	SAR exclusion threshold (mW)	976
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.2G	
	9.50dBm	8.91mW
Right Side	Antenna to user(mm)	252
	SAR exclusion threshold (mW)	2086

	SAR testing required?	NO
Top Side	Antenna to user(mm)	138
	SAR exclusion threshold (mW)	946
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.3G	
	9.00dBm	7.94mW
Right Side	Antenna to user(mm)	252
	SAR exclusion threshold (mW)	2086
	SAR testing required?	NO
Top Side	Antenna to user(mm)	138
	SAR exclusion threshold (mW)	946
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.6G	
	8.50dBm	7.08mW
Right Side	Antenna to user(mm)	252
	SAR exclusion threshold (mW)	2085
	SAR testing required?	NO
Top Side	Antenna to user(mm)	138
	SAR exclusion threshold (mW)	945
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.8G	
	8.50dBm	7.08mW
Right Side	Antenna to user(mm)	252
	SAR exclusion threshold (mW)	2082
	SAR testing required?	NO
Top Side	Antenna to user(mm)	138
	SAR exclusion threshold (mW)	942
	SAR testing required?	NO
Positions for WLAN Ant2 SAR tests		
Test separation distances > 50 mm		
Exposure Positions	Tune-up Maximum power of WLAN 2.4G	
	17.00dBm	50.12mW
Right Side	Antenna to user(mm)	234
	SAR exclusion threshold (mW)	1936
	SAR testing required?	NO
Top Side	Antenna to user(mm)	162
	SAR exclusion threshold (mW)	1216
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.2G	
	10.50dBm	11.22mW

Right Side	Antenna to user(mm)	234
	SAR exclusion threshold (mW)	1096
	SAR testing required?	NO
Top Side	Antenna to user(mm)	162
	SAR exclusion threshold (mW)	1186
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.3G	
	10.00dBm	10.00mW
Right Side	Antenna to user(mm)	234
	SAR exclusion threshold (mW)	1096
	SAR testing required?	NO
Top Side	Antenna to user(mm)	162
	SAR exclusion threshold (mW)	1186
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.6G	
	10.50dBm	11.22mW
Right Side	Antenna to user(mm)	234
	SAR exclusion threshold (mW)	1905
	SAR testing required?	NO
Top Side	Antenna to user(mm)	162
	SAR exclusion threshold (mW)	1185
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.8G	
	11.50dBm	14.13mW
Right Side	Antenna to user(mm)	234
	SAR exclusion threshold (mW)	1902
	SAR testing required?	NO
Top Side	Antenna to user(mm)	162
	SAR exclusion threshold (mW)	1182
	SAR testing required?	NO

Positions for WWAN Ant0 SAR tests		
Test separation distances > 50 mm		
Exposure Positions	Tune-up Maximum power of GSM 850	
	29.50dBm	891.25 mW
Left Side	Antenna to user(mm)	230
	SAR exclusion threshold (mW)	1166
	SAR testing required?	NO
Top Side	Antenna to user(mm)	148
	SAR exclusion threshold (mW)	710

	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of GSM 1900	
	25.50dBm	354.81 mW
Left Side	Antenna to user(mm)	230
	SAR exclusion threshold (mW)	2389
	SAR testing required?	NO
Top Side	Antenna to user(mm)	148
	SAR exclusion threshold (mW)	1350
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band 2	
	21.00dBm	125.89mW
Left Side	Antenna to user(mm)	230
	SAR exclusion threshold (mW)	2389
	SAR testing required?	NO
Top Side	Antenna to user(mm)	148
	SAR exclusion threshold (mW)	1350
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band 5	
	21.00dBm	125.89mW
Left Side	Antenna to user(mm)	230
	SAR exclusion threshold (mW)	1166
	SAR testing required?	NO
Top Side	Antenna to user(mm)	148
	SAR exclusion threshold (mW)	710
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 2	
	23.50dBm	223.87 mW
Left Side	Antenna to user(mm)	230
	SAR exclusion threshold (mW)	2389
	SAR testing required?	NO
Top Side	Antenna to user(mm)	148
	SAR exclusion threshold (mW)	1350
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 4	
	21.50dBm	141.25 mW
Left Side	Antenna to user(mm)	230
	SAR exclusion threshold (mW)	1922
	SAR testing required?	NO
Top Side	Antenna to user(mm)	148
	SAR exclusion threshold (mW)	1102

	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 5	
	21.50dBm	141.25 mW
Left Side	Antenna to user(mm)	230
	SAR exclusion threshold (mW)	1166
	SAR testing required?	NO
Top Side	Antenna to user(mm)	148
	SAR exclusion threshold (mW)	710
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 17	
	23.50dBm	223.87mW
Left Side	Antenna to user(mm)	230
	SAR exclusion threshold (mW)	764
	SAR testing required?	NO
Top Side	Antenna to user(mm)	148
	SAR exclusion threshold (mW)	518
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 41	
	25.00dBm	316.23mW
Left Side	Antenna to user(mm)	230
	SAR exclusion threshold (mW)	1896
	SAR testing required?	NO
Top Side	Antenna to user(mm)	148
	SAR exclusion threshold (mW)	1076
	SAR testing required?	NO

NOTE: Refer to section 4.3.1 of KDB 447498 D01.

9. Stand-alone SAR test exclusion

Refer to FCC KDB 447498D01, the 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR exclusion threshold (mW)	SAR test exclusion
------	---------------------------	--------------------------	------------------	------------	-----------------------	---------------------------------	-----------------------

Bluetooth	7.0	5.012	5	2.480	1.579	3	Yes
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NOTE: Standalone SAR test exclusion for Bluetooth.

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f_{\text{(GHz)}}}/x] \text{ W/kg}$ for test separation distances $\leq 50\text{mm}$, where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.

When the minimum test separation distance is $< 5 \text{ mm}$, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	Position	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Body	7.00	5.012	5	2.48	7.5	0.210
Bluetooth	Hotspot	7.00	5.012	5	2.48	7.5	0.210

NOTE: Estimated SAR calculation for Bluetooth

10. SAR Results

10.1. SAR measurement results

10.1.1. SAR measurement Result of GSM850

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	189/836.4	GPRS(GMSK 3TS)	0.030	0.017	3.61	29.21	29.50	0.032	2025/7/14	
Back Side	189/836.4	GPRS(GMSK 3TS)	0.253	0.147	1.71	29.21	29.50	0.270	2025/7/14	1#

NOTE: 1.Body-Worn SAR test results of GSM850

2. Tested by : Max Zhou

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	189/836.4	GPRS(GMSK 3TS)	0.030	0.017	3.61	29.21	29.50	0.032	2025/7/14	
Back Side	189/836.4	GPRS(GMSK 3TS)	0.253	0.147	1.71	29.21	29.50	0.270	2025/7/14	1#
Left Side	189/836.4	GPRS(GMSK 3TS)	0.015	0.013	3.35	29.21	29.50	0.016	2025/7/14	
Right Side	189/836.4	GPRS(GMSK 3TS)	0.010	0.008	-2.30	29.21	29.50	0.011	2025/7/14	
Bottom Side	189/836.4	GPRS(GMSK 3TS)	0.078	0.045	2.87	29.21	29.50	0.083	2025/7/14	

NOTE: 1.Hotspot SAR test results of GSM850

2. Tested by : Max Zhou

10.1.2. SAR measurement Result of GSM1900

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						

Front Side	661/1880	GPRS(GMSK 4TS)	0.067	0.034	-1.01	25.22	25.50	0.071	2025/7/16	
Back Side	661/1880	GPRS(GMSK 4TS)	0.640	0.336	1.55	25.22	25.50	0.683	2025/7/16	2#

NOTE:1. Body-Worn SAR test results of GSM1900

2. Tested by : Max Zhou

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	661/1880	GPRS(GMSK 4TS)	0.067	0.034	-1.01	25.22	25.50	0.071	2025/7/16	
Back Side	661/1880	GPRS(GMSK 4TS)	0.640	0.336	1.55	25.22	25.50	0.683	2025/7/16	2#
Left Side	661/1880	GPRS(GMSK 4TS)	0.032	0.016	3.20	25.22	25.50	0.034	2025/7/16	
Right Side	661/1880	GPRS(GMSK 4TS)	0.028	0.014	2.58	25.22	25.50	0.030	2025/7/16	
Bottom Side	661/1880	GPRS(GMSK 4TS)	0.330	0.170	3.28	25.22	25.50	0.352	2025/7/16	

NOTE: 1.Hotspot SAR test results of GSM1900

2. Tested by : Max Zhou

10.1.3. SAR measurement Result of WCDMA Band 2

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	9400/1880	RMC12.2K	0.063	0.031	0.56	20.57	21.00	0.070	2025/7/16	
Back Side	9400/1880	RMC12.2K	0.598	0.312	1.23	20.57	21.00	0.660	2025/7/16	3#

NOTE: 1.Body-Worn SAR test results of WCDMA Band 2

2. Tested by : Max Zhou

Test Position of Hotspot	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						

with 0mm										
Front Side	9400/1880	RMC12.2K	0.063	0.031	0.56	20.57	21.00	0.070	2025/7/16	
Back Side	9400/1880	RMC12.2K	0.598	0.312	1.23	20.57	21.00	0.660	2025/7/16	3#
Left Side	9400/1880	RMC12.2K	0.030	0.015	3.93	20.57	21.00	0.033	2025/7/16	
Right Side	9400/1880	RMC12.2K	0.024	0.012	1.57	20.57	21.00	0.026	2025/7/16	
Bottom Side	9400/1880	RMC12.2K	0.315	0.159	-2.40	20.57	21.00	0.348	2025/7/16	

NOTE: 1.Hotspot SAR test results of WCDMA Band 2

2.Tested by : Max Zhou

10.1.4. SAR measurement Result of WCDMA Band 5

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	4182/836.4	RMC12.2K	0.059	0.027	1.87	20.68	21.00	0.064	2025/7/14	
Back Side	4182/836.4	RMC12.2K	0.568	0.270	-1.21	20.68	21.00	0.611	2025/7/14	4#

NOTE:1. Body-Worn SAR test results of WCDMA Band 5

2.Tested by : Jack Peng

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	4182/836.4	RMC12.2K	0.059	0.027	1.87	20.68	21.00	0.064	2025/7/14	
Back Side	4182/836.4	RMC12.2K	0.568	0.270	-1.21	20.68	21.00	0.611	2025/7/14	4#
Left Side	4182/836.4	RMC12.2K	0.030	0.014	-0.16	20.68	21.00	0.032	2025/7/14	
Right Side	4182/836.4	RMC12.2K	0.024	0.011	-0.27	20.68	21.00	0.026	2025/7/14	
Bottom Side	4182/836.4	RMC12.2K	0.183	0.086	1.03	20.68	21.00	0.197	2025/7/14	

NOTE:1. Hotspot SAR test results of WCDMA Band 5

2. Tested by : Jack Peng

10.1.5. SAR measurement Result of LTE Band 2

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	18900/1880	20M QPSK(1,49)	0.085	0.043	-2.68	23.01	23.50	0.095	2025/7/16	
Back Side	18900/1880	20M QPSK(1,49)	0.840	0.434	-1.42	23.01	23.50	0.940	2025/7/16	
50%RB										
Front Side	18900/1880	20M QPSK(50,24)	0.046	0.022	-4.30	21.95	22.50	0.052	2025/7/16	
Back Side	18900/1880	20M QPSK(50,24)	0.434	0.254	-1.85	21.95	22.50	0.493	2025/7/16	

NOTE: 1.Body-Worn SAR test results of LTE Band 2

2. Tested by : Max Zhou

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	18900/1880	20M QPSK(1,49)	0.085	0.043	-2.68	23.01	23.50	0.095	2025/7/16	
Back Side	18900/1880	20M QPSK(1,49)	0.840	0.434	-1.42	23.01	23.50	0.940	2025/7/16	
Left Side	18900/1880	20M QPSK(1,49)	0.044	0.022	0.90	23.01	23.50	0.049	2025/7/16	
Right Side	18900/1880	20M QPSK(1,49)	0.035	0.018	1.11	23.01	23.50	0.039	2025/7/16	
Bottom Side	18900/1880	20M QPSK(1,49)	0.440	0.221	-1.47	23.01	23.50	0.493	2025/7/16	
Back Side	18700/1860	20M QPSK(1,49)	0.808	0.401	3.47	22.99	23.50	0.909	2025/7/16	
Back Side	19100/1900	20M QPSK(1,49)	0.934	0.477	-1.30	23.16	23.50	1.010	2025/7/16	17#

BackSide Repeated	18900/1880	20M QPSK(1,49)	0.839	0.430	-2.58	23.16	23.50	0.907	2025/7/16	
50%RB										
Front Side	18900/1880	20M QPSK(50,24)	0.046	0.022	-4.30	21.95	22.50	0.052	2025/7/16	
Back Side	18900/1880	20M QPSK(50,24)	0.434	0.254	-1.85	21.95	22.50	0.493	2025/7/16	
Left Side	18900/1880	20M QPSK(50,24)	0.023	0.012	-4.34	21.95	22.50	0.026	2025/7/16	
Right Side	18900/1880	20M QPSK(50,24)	0.021	0.011	1.36	21.95	22.50	0.024	2025/7/16	
Bottom Side	18900/1880	20M QPSK(50,24)	0.241	0.114	0.46	21.95	22.50	0.274	2025/7/16	

NOTE: 1.Hotspot SAR test results of LTE Band 2

2. 2. Tested by : Max Zhou

10.1.6. SAR measurement Result of LTE Band 4

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,99)	0.072	0.039	-0.23	21.12	21.50	0.079	2025/7/15	
Back Side	20175/1732.5	20M QPSK(1,99)	0.688	0.373	0.33	21.12	21.50	0.751	2025/7/15	18#
Front Side										
Front Side	20175/1732.5	20M QPSK(50,24)	0.042	0.021	-3.98	20.14	20.50	0.046	2025/7/15	
Back Side	20175/1732.5	20M QPSK(50,24)	0.375	0.207	-4.46	20.14	20.50	0.407	2025/7/15	

NOTE: Body-Worn SAR test results of LTE Band 4

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						

1RB										
Front Side	20175/1732.5	20M QPSK(1,99)	0.072	0.039	-0.23	21.12	21.50	0.079	2025/7/15	
Back Side	20175/1732.5	20M QPSK(1,99)	0.688	0.373	0.33	21.12	21.50	0.751	2025/7/15	18#
Left Side	20175/1732.5	20M QPSK(1,99)	0.037	0.020	2.58	21.12	21.50	0.040	2025/7/15	
Right Side	20175/1732.5	20M QPSK(1,99)	0.028	0.015	-2.07	21.12	21.50	0.031	2025/7/15	
Bottom Side	20175/1732.5	20M QPSK(1,99)	0.365	0.198	1.03	21.12	21.50	0.398	2025/7/15	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,24)	0.042	0.021	-3.98	20.14	20.50	0.046	2025/7/15	
Back Side	20175/1732.5	20M QPSK(50,24)	0.375	0.207	-4.46	20.14	20.50	0.407	2025/7/15	
Left Side	20175/1732.5	20M QPSK(50,24)	0.020	0.011	-2.92	20.14	20.50	0.022	2025/7/15	
Right Side	20175/1732.5	20M QPSK(50,24)	0.017	0.008	0.30	20.14	20.50	0.018	2025/7/15	
Bottom Side	20175/1732.5	20M QPSK(50,24)	0.217	0.110	1.01	20.14	20.50	0.236	2025/7/15	

NOTE: 1.Hotspot SAR test results of LTE Band 4
2.Tested by : Max Zhou

10.1.7. SAR measurement Result of LTE Band 5

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.061	0.028	-0.94	21.02	21.50	0.068	2025/7/14	
Back Side	20525/836.5	10M QPSK(1,24)	0.602	0.288	-1.78	21.02	21.50	0.672	2025/7/14	19#
50%RB										
Front Side	20525/836.5	10M QPSK(25,0)	0.032	0.017	-2.35	20.04	20.50	0.036	2025/7/14	
Back Side	20525/836.5	10M QPSK(25,0)	0.318	0.171	4.61	20.04	20.50	0.354	2025/7/14	

NOTE: 1.Body-Worn SAR test results of LTE Band 5
2.Tested by : Max Zhou

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.061	0.028	-0.94	21.02	21.50	0.068	2025/7/14	
Back Side	20525/836.5	10M QPSK(1,24)	0.602	0.288	-1.78	21.02	21.50	0.672	2025/7/14	19#
Left Side	20525/836.5	10M QPSK(1,24)	0.032	0.015	2.60	21.02	21.50	0.036	2025/7/14	
Right Side	20525/836.5	10M QPSK(1,24)	0.024	0.011	-0.85	21.02	21.50	0.027	2025/7/14	
Bottom Side	20525/836.5	10M QPSK(1,24)	0.195	0.090	2.28	21.02	21.50	0.218	2025/7/14	
50%RB										
Front Side	20525/836.5	10M QPSK(25,0)	0.032	0.017	-2.35	20.04	20.50	0.036	2025/7/14	
Back Side	20525/836.5	10M QPSK(25,0)	0.318	0.171	4.61	20.04	20.50	0.354	2025/7/14	
Left Side	20525/836.5	10M QPSK(25,0)	0.017	0.008	4.16	20.04	20.50	0.019	2025/7/14	
Right Side	20525/836.5	10M QPSK(25,0)	0.014	0.006	-1.60	20.04	20.50	0.016	2025/7/14	
Bottom Side	20525/836.5	10M QPSK(25,0)	0.101	0.050	4.45	20.04	20.50	0.112	2025/7/14	

NOTE: 1.Hotspot SAR test results of LTE Band 5
2.Tested by : Max Zhou

10.1.8. SAR measurement Result of LTE Band 7

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M	0.059	0.023	2.37	21.12	21.50	0.064	2025/7/18	

		QPSK(1,49)								
Back Side	21100/2535	20M QPSK(1,49)	0.544	0.227	-3.18	21.12	21.50	0.594	2025/7/18	20#
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.035	0.012	-0.36	20.18	20.50	0.038	2025/7/18	
Back Side	21100/2535	20M QPSK(50,24)	0.288	0.126	1.39	0.00	0.00	0.288	2025/7/18	

NOTE: 1.Body-Worn SAR test results of LTE Band 7
2.Tested by : Max Zhou

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.059	0.023	2.37	21.12	21.50	0.064	2025/7/18	
Back Side	21100/2535	20M QPSK(1,49)	0.544	0.227	-3.18	21.12	21.50	0.594	2025/7/18	20#
Left Side	21100/2535	20M QPSK(1,49)	0.017	0.015	3.15	21.12	21.50	0.019	2025/7/18	
Right Side	21100/2535	20M QPSK(1,49)	0.028	0.012	-1.07	21.12	21.50	0.031	2025/7/18	
Bottom Side	21100/2535	20M QPSK(1,49)	0.232	0.093	3.33	21.12	21.50	0.253	2025/7/18	
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.035	0.012	-0.36	20.18	20.50	0.038	2025/7/18	
Back Side	21100/2535	20M QPSK(50,24)	0.288	0.126	1.39	0.00	0.00	0.288	2025/7/18	
Left Side	21100/2535	20M QPSK(50,24)	0.009	0.008	-2.47	0.00	0.00	0.009	2025/7/18	
Right Side	21100/2535	20M QPSK(50,24)	0.016	0.007	-3.58	0.00	0.00	0.016	2025/7/18	
Bottom Side	21100/2535	20M QPSK(50,24)	0.129	0.051	-1.78	0.00	0.00	0.129	2025/7/18	

NOTE: 1.Hotspot SAR test results of LTE Band 7
2.Tested by : Max Zhou

10.1.9. SAR measurement Result of LTE Band 17

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,0)	0.041	0.019	-0.67	23.11	23.50	0.045	2025/7/13	
Back Side	23790/710	10M QPSK(1,0)	0.374	0.179	-1.96	23.11	23.50	0.409	2025/7/13	21#
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.022	0.011	4.39	22.19	22.50	0.024	2025/7/13	
Back Side	23790/710	10M QPSK(25,12)	0.189	0.101	-4.53	0.00	0.00	0.189	2025/7/13	

NOTE: 1.Body-Worn SAR test results of LTE Band 17

2.Tested by : Jack Peng

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,0)	0.041	0.019	-0.67	23.11	23.50	0.045	2025/7/13	
Back Side	23790/710	10M QPSK(1,0)	0.374	0.179	-1.96	23.11	23.50	0.409	2025/7/13	21#
Left Side	23790/710	10M QPSK(1,0)	0.020	0.018	3.82	23.11	23.50	0.022	2025/7/13	
Right Side	23790/710	10M QPSK(1,0)	0.015	0.013	2.43	23.11	23.50	0.016	2025/7/13	
Bottom Side	23790/710	10M QPSK(1,0)	0.114	0.054	1.91	23.11	23.50	0.125	2025/7/13	
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.022	0.011	4.39	22.19	22.50	0.024	2025/7/13	
Back Side	23790/710	10M QPSK(25,12)	0.189	0.101	-4.53	0.00	0.00	0.189	2025/7/13	
Left	23790/710	10M	0.010	0.009	4.72	0.00	0.00	0.010	2025/7/13	

Side		QPSK(25,12)								
Right Side	23790/710	10M QPSK(25,12)	0.008	0.008	-0.11	0.00	0.00	0.008	2025/7/13	
Bottom Side	23790/710	10M QPSK(25,12)	0.066	0.029	-1.82	0.00	0.00	0.066	2025/7/13	

NOTE: 1.Hotspot SAR test results of LTE Band 17
2.Tested by : Jack Peng

10.1.10. SAR measurement Result of LTE Band 41

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	40620/2593	20M QPSK(1,0)	0.043	0.017	-0.87	25.69	26.00	0.046	2025/7/18	
Back Side	40620/2593	20M QPSK(1,0)	0.383	0.155	-1.59	25.69	26.00	0.411	2025/7/18	22#
50%RB										
Front Side	40620/2593	20M QPSK(50,0)	0.025	0.009	-3.76	24.80	25.00	0.026	2025/7/18	
Back Side	40620/2593	20M QPSK(50,0)	0.223	0.084	0.55	24.80	25.00	0.234	2025/7/18	

NOTE: 1.Body-Worn SAR test results of LTE Band 41
2.Tested by : Max Zhou

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	40620/2593	20M QPSK(1,0)	0.043	0.017	-0.87	25.69	26.00	0.046	2025/7/18	
Back Side	40620/2593	20M QPSK(1,0)	0.383	0.155	-1.59	25.69	26.00	0.411	2025/7/18	22#
Left Side	40620/2593	20M QPSK(1,0)	0.012	0.010	-1.57	25.69	26.00	0.013	2025/7/18	
Right Side	40620/2593	20M QPSK(1,0)	0.020	0.018	0.87	25.69	26.00	0.021	2025/7/18	

Bottom Side	40620/2593	20M QPSK(1,0)	0.168	0.068	0.81	25.69	26.00	0.180	2025/7/18	
50%RB										
Front Side	40620/2593	20M QPSK(50,0)	0.025	0.009	-3.76	24.80	25.00	0.026	2025/7/18	
Back Side	40620/2593	20M QPSK(50,0)	0.223	0.084	0.55	24.80	25.00	0.234	2025/7/18	
Left Side	40620/2593	20M QPSK(50,0)	0.007	0.005	-1.70	24.80	25.00	0.007	2025/7/18	
Right Side	40620/2593	20M QPSK(50,0)	0.012	0.009	0.94	24.80	25.00	0.013	2025/7/18	
Bottom Side	40620/2593	20M QPSK(50,0)	0.098	0.038	1.87	24.80	25.00	0.103	2025/7/18	

NOTE:1. Hotspot SAR test results of LTE Band 41

2.Tested by : Max Zhou

1.1.1. SAR measurement Result of NR 41

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.400	0.245	-3.39	23.61	24.00	0.438	2025/7/16	
Back Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.743	0.381	2.35	23.61	24.00	0.813	2025/7/16	23#
50%RB										
Front Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.373	0.228	-0.55	22.65	23.00	0.404	2025/7/16	
Back Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.645	0.328	-1.61	22.65	23.00	0.699	2025/7/16	

NOTE: 1.Body-Worn SAR test results of LTE NR 41

2.Tested by : Max Zhou

Test Position	Test channel /Freq.	Mode	SAR Value (W/kg)	Power Drift(%)	Conducted Power	Tune-up Power	Scaled SAR	Date	Plot
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of Hotspot with 0mm			1-g	10-g		(dBm)	(dBm)	1-g (W/Kg)		
1RB										
Front Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.400	0.245	-3.39	23.61	24.00	0.438	2025/7/16	
Back Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.743	0.381	2.35	23.61	24.00	0.813	2025/7/16	23#
Left Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.225	0.111	-2.84	23.61	24.00	0.246	2025/7/16	
Right Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.237	0.115	-2.96	23.61	24.00	0.259	2025/7/16	
Bottom Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.380	0.187	0.53	23.61	24.00	0.416	2025/7/16	
Back Side	509202/2546.01	30kHz 50M QPSK(1,1)	0.726	0.338	-1.58	23.54	24.00	0.807	2025/7/16	
Back Side	528000/2640	30kHz 50M QPSK(1,1)	0.733	0.359	-2.96	23.58	24.00	0.807	2025/7/16	
Back Side Repeated	518598/2592.99	30kHz 50M QPSK(1,1)	0.741	0.378	1.54	23.61	24.00	0.811	2025/7/16	
50%RB										
Front Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.373	0.228	-0.55	22.65	23.00	0.404	2025/7/16	
Back Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.645	0.328	-1.61	22.65	23.00	0.699	2025/7/16	
Left Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.194	0.095	-1.38	22.65	23.00	0.210	2025/7/16	
Right Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.214	0.099	-4.99	22.65	23.00	0.232	2025/7/16	
Bottom Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.333	0.163	1.78	22.65	23.00	0.361	2025/7/16	
100%RB										
Back Side	518598/2592.99	30kHz 50M QPSK(1,1)	0.547	0.226	3.91	22.41	22.50	0.558	2025/7/16	

NOTE:1. Hotspot SAR test results of NR 41

2. Tested by : Max Zhou

1.1.2. SAR measurement Result of NR 78

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	633334/3500.1	100M QPSK(1,1)	0.916	0.385	-0.27	23.12	23.50	1.000	2025/8/19	24#
Back Side	633334/3500.1	100M QPSK(1,1)	0.843	0.332	-0.61	23.12	23.50	0.920	2025/8/19	
50%RB										
Front Side	633334/3500.1	100M QPSK(1,1)	0.508	0.199	-2.43	22.02	22.50	0.567	2025/8/19	
Back Side	633334/3500.1	100M QPSK(1,1)	0.477	0.183	0.63	22.49	22.50	0.478	2025/8/19	

NOTE: 1.Body-Worn SAR test results of NR 78

2.Tested by : Max Zhou

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	633334/3500.1	100M QPSK(1,1)	0.916	0.385	-0.27	23.12	23.50	1.000	2025/8/19	24#
Back Side	633334/3500.1	100M QPSK(1,1)	0.843	0.332	-0.61	23.12	23.50	0.920	2025/8/19	
Left Side	633334/3500.1	100M QPSK(1,1)	0.264	0.104	3.99	23.12	23.50	0.288	2025/8/19	
Right Side	633334/3500.1	100M QPSK(1,1)	0.255	0.095	-2.07	23.12	23.50	0.278	2025/8/19	
Bottom Side	633334/3500.1	100M QPSK(1,1)	0.435	0.170	3.48	23.12	23.50	0.475	2025/8/19	
50%RB										
Front Side	633334/3500.1	100M QPSK(1,1)	0.508	0.199	-2.43	22.02	22.50	0.567	2025/8/19	

Back Side	633334/3500.1	100M QPSK(1,1)	0.477	0.183	0.63	22.49	22.50	0.478	2025/8/19	
Left Side	633334/3500.1	100M QPSK(1,1)	0.133	0.057	4.65	22.49	22.50	0.133	2025/8/19	
Right Side	633334/3500.1	100M QPSK(1,1)	0.128	0.050	-4.99	22.49	22.50	0.128	2025/8/19	
Bottom Side	633334/3500.1	100M QPSK(1,1)	0.242	0.099	1.07	22.49	22.50	0.243	2025/8/19	
100%RB										
Back Side	633334/3500.1	100M QPSK(1,1)	0.225	0.086	-1.71	22.49	22.50	0.226	2025/8/19	

NOTE:1. Hotspot SAR test results of NR 78
2. Tested by : Max Zhou

1.1.3. SAR measurement Result of WLAN 2.4G Ant1

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11b	0.355	0.188	-3.69	16.43	17.00	0.405	2025/7/17	
Back Side	6/2437	802.11b	0.418	0.194	-3.56	16.43	17.00	0.477	2025/7/17	16#

NOTE: 1.Body-Worn SAR test results of WLAN 2.4G
2. Tested by : Max Zhou

Ant1

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11b	0.355	0.188	-3.69	16.43	17.00	0.405	2025/7/17	
Back Side	6/2437	802.11b	0.418	0.194	-3.56	16.43	17.00	0.477	2025/7/17	16#
Left Side	6/2437	802.11b	0.121	0.067	-3.27	16.43	17.00	0.138	2025/7/17	
Bottom Side	6/2437	802.11b	0.166	0.087	-3.20	16.43	17.00	0.189	2025/7/17	

NOTE:1. Hotspot SAR test results of WLAN 2.4G
2. Tested by : Max Zhou

Ant2

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11b	0.282	0.126	0.08	16.62	17.00	0.308	2025/7/17	
Back Side	6/2437	802.11b	0.468	0.209	-2.70	16.62	17.00	0.511	2025/7/17	15#

NOTE: 1.Body-Worn SAR test results of WLAN 2.4G
2. Tested by : Max Zhou

Ant2

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11b	0.282	0.126	0.08	16.62	17.00	0.308	2025/7/17	
Back Side	6/2437	802.11b	0.468	0.209	-2.70	16.62	17.00	0.511	2025/7/17	15#
Left Side	6/2437	802.11b	0.153	0.067	-2.74	16.62	17.00	0.167	2025/7/17	
Bootom Side	6/2437	802.11b	0.188	0.084	3.91	16.62	17.00	0.205	2025/7/17	

NOTE:1. Hotspot SAR test results of WLAN 2.4G
2.Tested by : Max Zhou

MIMO

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11n HT40	0.480	0.208	-3.31	15.56	16.00	0.531	2025/7/17	
Back Side	6/2437	802.11n HT40	0.580	0.265	-3.29	15.56	16.00	0.642	2025/7/17	14#

NOTE: 1.Body-Worn SAR test results of WLAN 2.4G
2. Tested by : Max Zhou

MIMO

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11n HT40	0.480	0.208	-3.31	15.56	16.00	0.531	2025/7/17	
Back Side	6/2437	802.11n HT40	0.580	0.265	-3.29	15.56	16.00	0.642	2025/7/17	14#
Left Side	6/2437	802.11n HT40	0.174	0.080	-0.70	15.56	16.00	0.193	2025/7/17	
Bootom Side	6/2437	802.11n HT40	0.290	0.127	-0.62	15.56	16.00	0.321	2025/7/17	

NOTE:1. Hotspot SAR test results of WLAN 2.4G
2.Tested by : Max Zhou

1.1.4. SAR measurement Result of WLAN 5.2G

Ant 1

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	46/5230	802.11ax HE40	0.109	0.038	-3.18	9.05	9.50	0.121	2025/7/10	
Back Side	46/5230	802.11ax HE40	0.165	0.061	1.17	9.05	9.50	0.183	2025/7/10	

NOTE: 1.Body-Worn SAR test results of WLAN 5.2G

2. Tested by : Max Zhou

Ant 1

Test Position of Hotspot with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	46/5230	802.11ax HE40	0.109	0.038	-3.18	9.05	9.50	0.121	2025/7/10	
Back Side	46/5230	802.11ax HE40	0.165	0.061	1.17	9.05	9.50	0.183	2025/7/10	
Left Side	46/5230	802.11ax HE40	0.303	0.112	1.68	9.05	9.50	0.336	2025/7/10	5#
Boottom Side	46/5230	802.11ax HE40	0.124	0.044	-0.05	9.05	9.50	0.138	2025/7/10	

NOTE: 1.Hotspot SAR test results of WLAN 5.2G

2. Tested by : Max Zhou

Ant 2

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	40/5200	802.11a	0.262	0.097	1.38	10.01	10.50	0.293	2025/7/10	6#
Back Side	40/5200	802.11a	0.233	0.086	-2.52	10.01	10.50	0.261	2025/7/10	

NOTE: 1.Body-Worn SAR test results of WLAN 5.2G

2. Tested by : Max Zhou

Ant 2

Test Position of	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g	Date	Plot
			1-g	10-g						

Hotspot with 0mm								(W/Kg)		
Front Side	40/5200	802.11a	0.262	0.097	1.38	10.01	10.50	0.293	2025/7/10	6#
Back Side	40/5200	802.11a	0.233	0.086	-2.52	10.01	10.50	0.261	2025/7/10	
Left Side	40/5200	802.11a	0.108	0.038	1.71	10.01	10.50	0.121	2025/7/10	
Bottom Side	40/5200	802.11a	0.195	0.072	1.76	10.01	10.50	0.218	2025/7/10	

NOTE: 1.Hotspot SAR test results of WLAN 5.2G
2.Tested by : Max Zhou

MIMO

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	40/5200	802.11n HT20	0.143	0.052	0.86	12.24	13.00	0.170	2025/7/10	
Back Side	40/5200	802.11n HT20	0.125	0.044	-3.01	12.24	13.00	0.149	2025/7/10	

NOTE: 1.Body-Worn SAR test results of WLAN 5.2G
2.Tested by : Max Zhou

MIMO

Test Position of Hotspot with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	40/5200	802.11n HT20	0.143	0.052	0.86	12.24	13.00	0.170	2025/7/10	
Back Side	40/5200	802.11n HT20	0.125	0.044	-3.01	12.24	13.00	0.149	2025/7/10	
Left Side	40/5200	802.11n HT20	0.221	0.081	4.49	12.24	13.00	0.263	2025/7/10	7#
Bottom Side	40/5200	802.11n HT20	0.092	0.034	-1.66	12.24	13.00	0.110	2025/7/10	

NOTE: 1.Hotspot SAR test results of WLAN 5.2G
2.Tested by : Max Zhou

1.1.5. SAR measurement Result of WLAN 5.3G

Ant1

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	56/5280	802.11a	0.084	0.030	3.77	8.33	9.00	0.098	2025/7/23	
Back Side	56/5280	802.11a	0.115	0.039	-1.80	8.33	9.00	0.134	2025/7/23	

NOTE: 1.Body-Worn SAR test results of WLAN 5.3G

2. Tested by : Max Zhou

Ant1

Test Position of Hotspot with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	56/5280	802.11a	0.084	0.030	3.77	8.33	9.00	0.098	2025/7/23	
Back Side	56/5280	802.11a	0.115	0.039	-1.80	8.33	9.00	0.134	2025/7/23	
Left Side	56/5280	802.11a	0.228	0.081	-0.10	8.33	9.00	0.266	2025/7/23	8#
Boottom Side	56/5280	802.11a	0.092	0.033	-1.35	8.33	9.00	0.107	2025/7/23	

NOTE: 1.Hotspot SAR test results of WLAN 5.3G

2. Tested by : Max Zhou

Ant2

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			(W/kg)							
			1-g	10-g						
Front Side	56/5280	802.11ax HE40	0.427	0.149	-1.57	9.53	10.00	0.476	2025/7/23	9#
Back Side	56/5280	802.11ax HE40	0.345	0.116	-0.16	9.53	10.00	0.384	2025/7/23	

NOTE: 1.Body-Worn SAR test results of WLAN 5.3G

2. Tested by : Max Zhou

Ant2

Test Position of Hotspot	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						

with 0mm										
Front Side	56/5280	802.11ax HE40	0.427	0.149	-1.57	9.53	10.00	0.476	2025/7/23	9#
Back Side	56/5280	802.11ax HE40	0.345	0.116	-0.16	9.53	10.00	0.384	2025/7/23	
Right Side	56/5280	802.11ax HE40	0.180	0.060	1.97	9.53	10.00	0.201	2025/7/23	
Top Side	56/5280	802.11ax HE40	0.299	0.100	2.88	9.53	10.00	0.333	2025/7/23	

NOTE: 1.Hotspot SAR test results of WLAN 5.3G

2.Tested by : Max Zhou

MIMO

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	64/5230	802.11n HT20	0.143	0.049	1.64	12.13	12.50	0.156	2025/7/23	
Back Side	64/5230	802.11n HT20	0.155	0.053	-1.75	12.13	12.50	0.169	2025/7/23	

NOTE: 1.Body-Worn SAR test results of WLAN 5.3G

2.Tested by : Max Zhou

MIMO

Test Position of Hotspot with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	64/5230	802.11n HT20	0.143	0.049	1.64	12.13	12.50	0.156	2025/7/23	
Back Side	64/5230	802.11n HT20	0.155	0.053	-1.75	12.13	12.50	0.169	2025/7/23	
Left Side	64/5230	802.11n HT20	0.260	0.093	-0.77	12.13	12.50	0.283	2025/7/23	10#
Bottom Side	64/5230	802.11n HT20	0.124	0.043	2.33	12.13	12.50	0.135	2025/7/23	

NOTE: 1.Hotspot SAR test results of WLAN 5.3G

2.Tested by : Max Zhou

1.1.6. SAR measurement Result of WLAN 5.8G Ant1

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	151/5755	802.11n HT40	0.105	0.038	3.74	8.07	8.50	0.116	2025/7/12	
Back Side	151/5755	802.11n HT40	0.150	0.056	-3.08	8.07	8.50	0.166	2025/7/12	

NOTE:1. Body-Worn SAR test results of WLAN 5.8G

2. Tested by : Max Zhou

Ant1

Test Position of Hotspot with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	151/5755	802.11n HT40	0.105	0.038	3.74	8.07	8.50	0.116	2025/7/12	
Back Side	151/5755	802.11n HT40	0.150	0.056	-3.08	8.07	8.50	0.166	2025/7/12	
Left Side	151/5755	802.11n HT40	0.271	0.103	4.48	8.07	8.50	0.299	2025/7/12	11#
Bottom Side	151/5755	802.11n HT40	0.120	0.045	-0.31	8.07	8.50	0.132	2025/7/12	

NOTE: 1. Hotspot SAR test results of WLAN 5.8G

2. Tested by : Max Zhou

Ant2

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	157/5785	802.11a	0.338	0.120	-3.70	10.78	11.50	0.399	2025/7/12	13#
Back Side	157/5785	802.11a	0.270	0.092	1.19	10.78	11.50	0.319	2025/7/12	

NOTE:1. Body-Worn SAR test results of WLAN 5.8G

2. Tested by : Max Zhou

Ant2

Test Position of Hotspot with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	157/5785	802.11a	0.338	0.120	-3.70	10.78	11.50	0.399	2025/7/12	13#
Back Side	157/5785	802.11a	0.270	0.092	1.19	10.78	11.50	0.319	2025/7/12	
Left Side	157/5785	802.11a	0.140	0.050	-3.57	10.78	11.50	0.165	2025/7/12	
Bottom Side	157/5785	802.11a	0.247	0.083	1.20	10.78	11.50	0.292	2025/7/12	

NOTE: 1.Hotspot SAR test results of WLAN 5.8G
2.Tested by : Max Zhou

MIMO

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	159/5795	802.11ax HE40	0.160	0.059	-1.29	13.05	13.50	0.177	2025/7/12	
Back Side	159/5795	802.11ax HE40	0.150	0.053	0.67	13.05	13.50	0.166	2025/7/12	

NOTE:1. Body-Worn SAR test results of WLAN 5.8G
2.Tested by : Max Zhou

MIMO

Test Position of Hotspot with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	159/5795	802.11ax HE40	0.160	0.059	-1.29	13.05	13.50	0.177	2025/7/12	
Back Side	159/5795	802.11ax HE40	0.150	0.053	0.67	13.05	13.50	0.166	2025/7/12	
Left Side	159/5795	802.11ax HE40	0.280	0.104	-2.29	13.05	13.50	0.311	2025/7/12	12#

Bottom Side	159/5795	802.11ax HE40	0.132	0.049	2.70	13.05	13.50	0.146	2025/7/12	
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NOTE: 1.Hotspot SAR test results of WLAN 5.8G
2.Tested by : Max Zhou

1.2. SAR Summation Scenario

Per KDB 447498 D01, simultaneous transmission SAR is compliant if,

- Scalar SAR summation $< 1.6\text{W/kg}$.
- $\text{SPLSR} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan. If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DTS			
Hotspot	Front Side	0.935	0.531	1.466	N/A	N/A
	Back Side	0.94	0.567	1.507	N/A	N/A
Body	Front Side	0.935	0.531	1.466	N/A	N/A
	Back Side	0.94	0.567	1.507	N/A	N/A
	Left Side	0.288	0.193	0.481	N/A	N/A
	Right Side	0.278	N/A	0.278	N/A	N/A
	Top Side	N/A	N/A	N/A	N/A	N/A
	Bottom Side	0.493	0.321	0.814	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Hotspot	Front Side	0.935	0.476	1.411	N/A	N/A
	Back Side	0.94	0.384	1.324	N/A	N/A
Body	Front Side	0.935	0.476	1.411	N/A	N/A
	Back Side	0.94	0.384	1.324	N/A	N/A
	Left Side	0.288	0.336	0.624	N/A	N/A
	Right Side	0.278	0	0.278	N/A	N/A
	Top Side	N/A	N/A	N/A	N/A	N/A
	Bottom Side	0.493	0.333	0.826	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Hotspot	Front Side	0.935	0.21	1.145	N/A	N/A
	Back Side	0.94	0.21	1.15	N/A	N/A
Body	Front Side	0.935	0.21	1.145	N/A	N/A

	Back Side	0.94	0.21	1.15	N/A	N/A
	Left Side	0.288	0.21	0.498	N/A	N/A
	Right Side	0.278	0	0.278	N/A	N/A
	Top Side	N/A	N/A	N/A	N/A	N/A
	Bottom Side	0.493	0.21	0.703	N/A	N/A

2. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

3. Appendix B. System Check Plots

Table of contents
MEASUREMENT 1 System Performance Check - 750MHz
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MEASUREMENT 6 System Performance Check - 2450MHz
MEASUREMENT 7 System Performance Check - 2600MHz
MEASUREMENT 8 System Performance Check - 5200MHz
MEASUREMENT 9 System Performance Check - 5400MHz
MEASUREMENT 10 System Performance Check - 5800MHz

1# System check at 750 MHz
Date of measurement: 13/7/2025

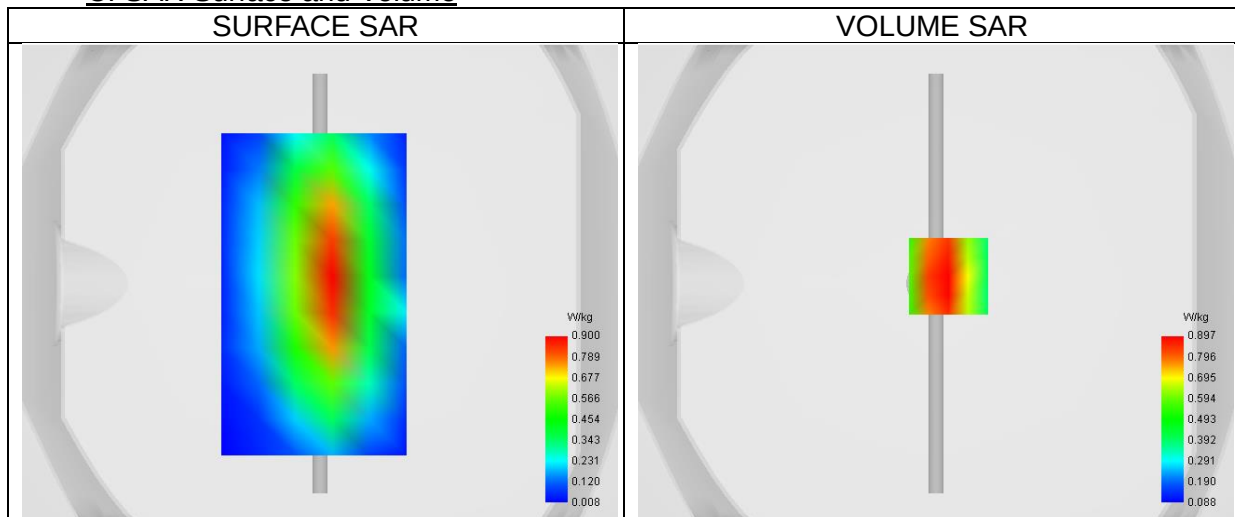
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.39
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	750.00
Relative permittivity (real part)	40.65
Relative permittivity (imaginary part)	21.34
Conductivity (S/m)	0.89

C. SAR Surface and Volume



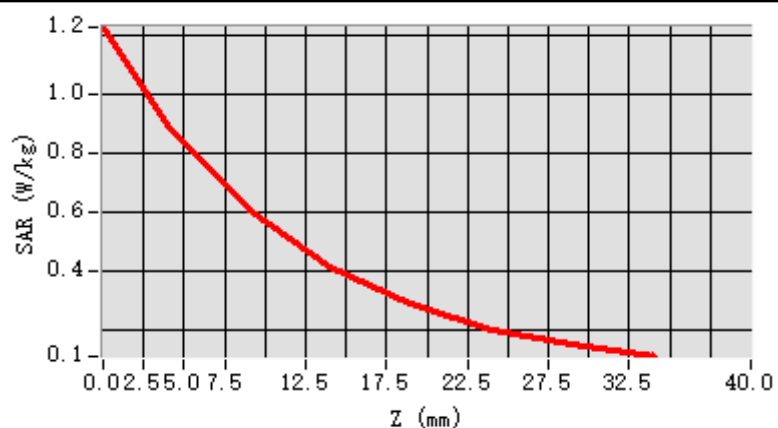
Maximum location: X=5.00, Y=3.00 ; SAR Peak: 1.26 W/kg

D. SAR 1g & 10g

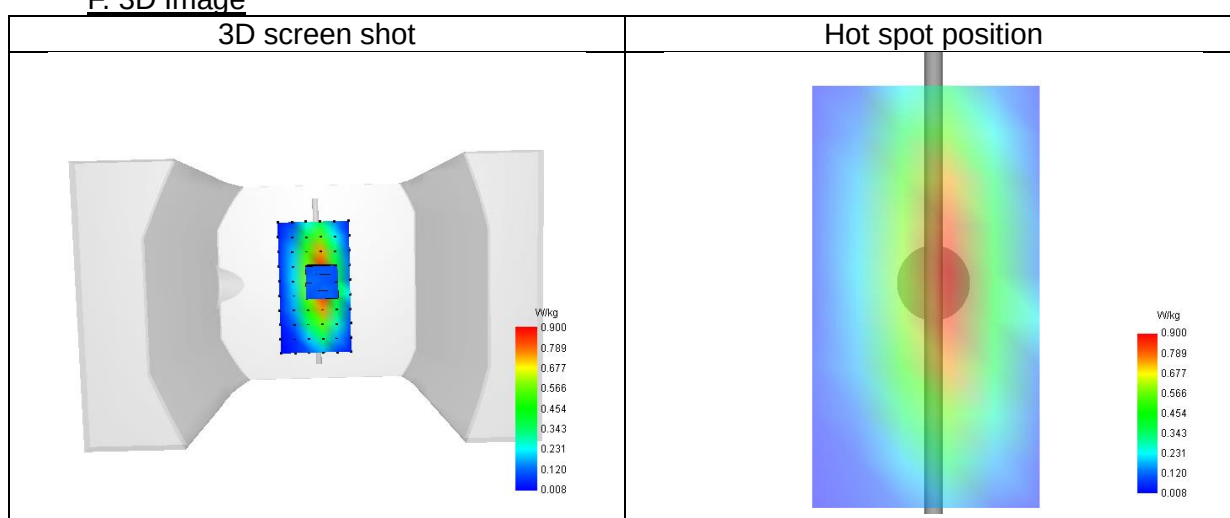
SAR 10g (W/Kg)	0.548
SAR 1g (W/Kg)	0.870
Variation (%)	-0.29
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	67.34

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.227	0.897	0.604	0.409	0.289	0.198	0.150



F. 3D Image



2# System check at 835 MHz
Date of measurement: 14/7/2025

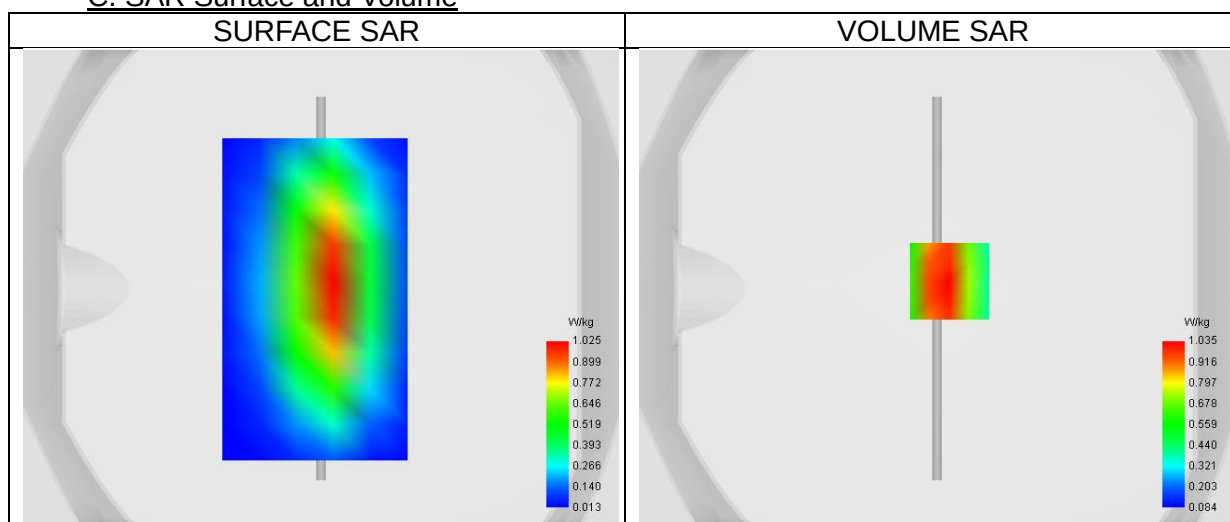
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	835.00
Relative permittivity (real part)	42.21
Relative permittivity (imaginary part)	19.97
Conductivity (S/m)	0.93

C. SAR Surface and Volume



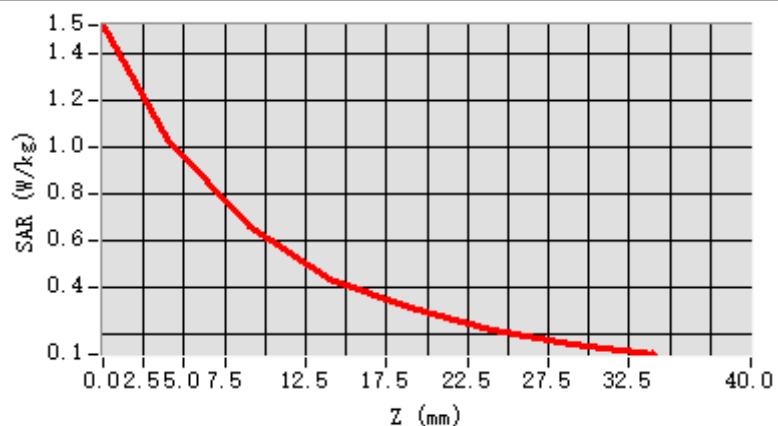
Maximum location: X=5.00, Y=3.00 ; SAR Peak: 1.57 W/kg

D. SAR 1g & 10g

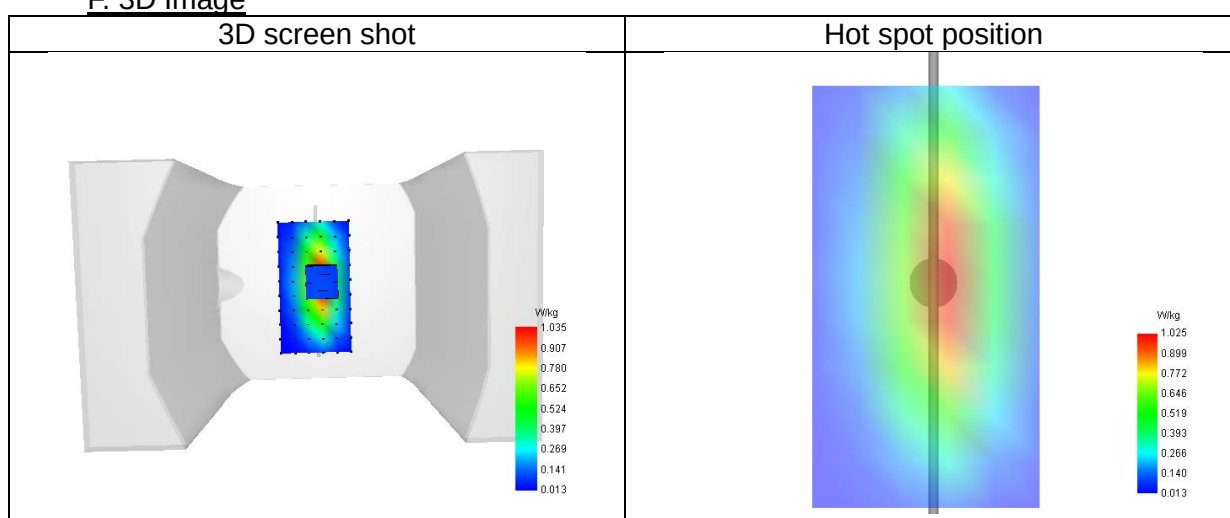
SAR 10g (W/Kg)	0.602
SAR 1g (W/Kg)	1.009
Variation (%)	-0.29
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	63.77

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.517	1.035	0.660	0.436	0.317	0.214	0.156



F. 3D Image



3# System check at 1800 MHz
Date of measurement: 15/7/2025

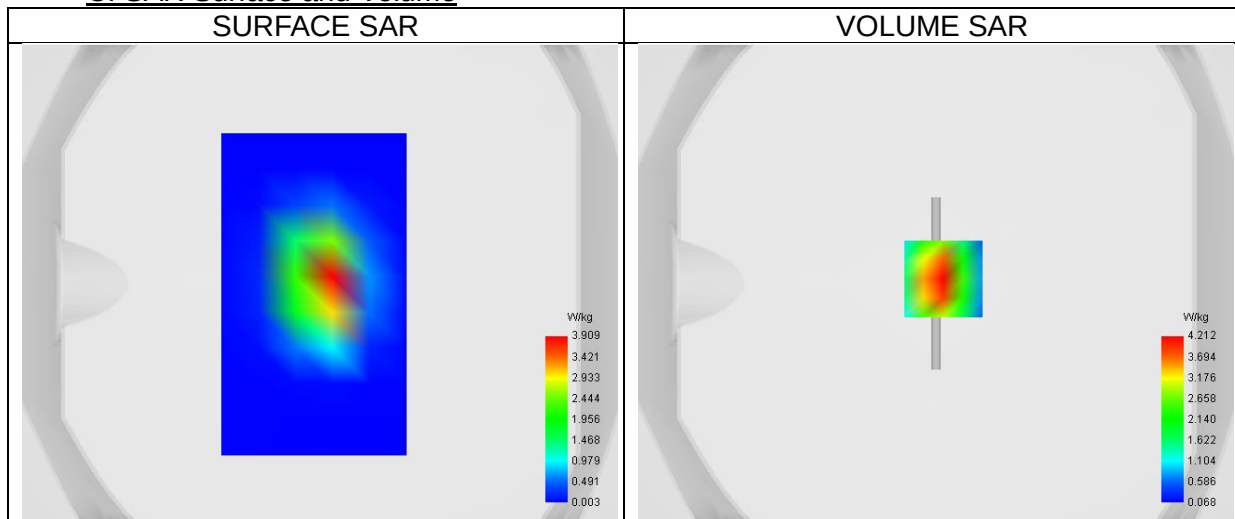
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.50
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	1800.00
Relative permittivity (real part)	38.94
Relative permittivity (imaginary part)	13.93
Conductivity (S/m)	1.39

C. SAR Surface and Volume



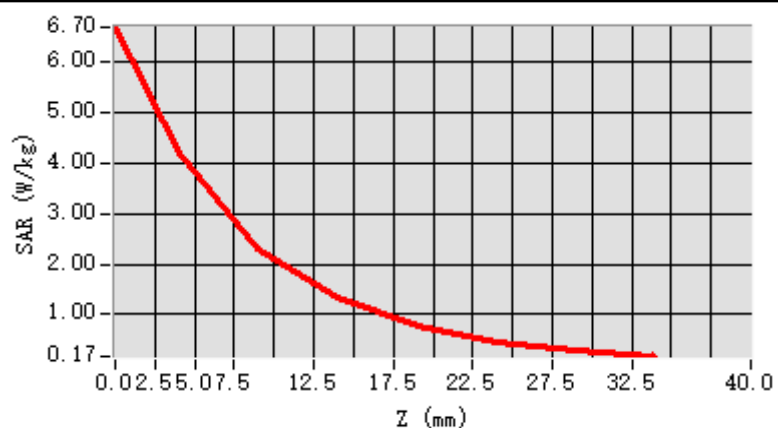
Maximum location: X=3.00, Y=2.00 ; SAR Peak: 6.79 W/kg

D. SAR 1g & 10g

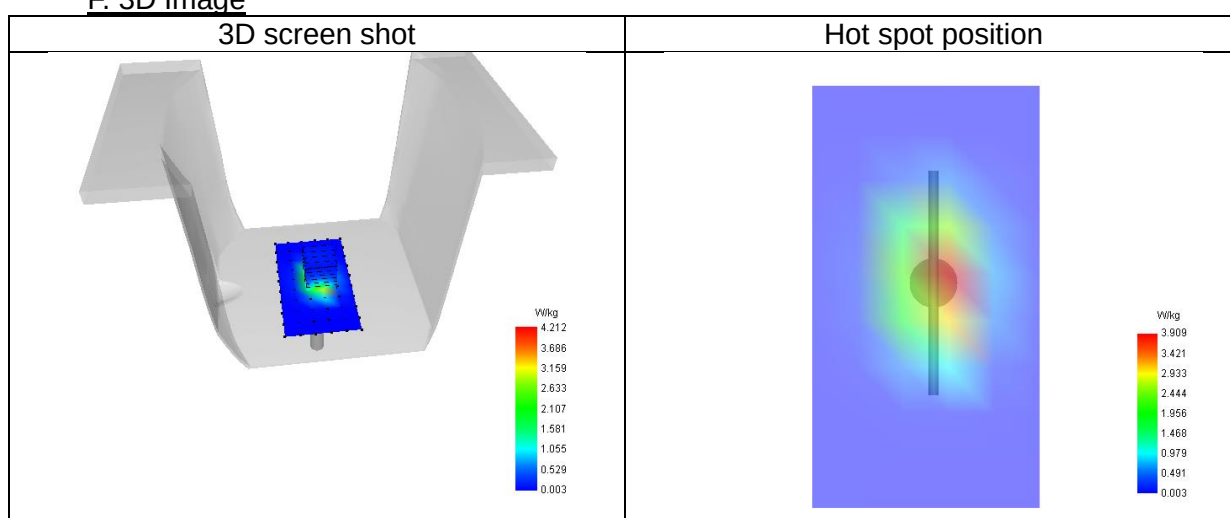
SAR 10g (W/Kg)	2.020
SAR 1g (W/Kg)	3.999
Variation (%)	-0.04
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	54.78

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.697	4.212	2.307	1.321	0.772	0.457	0.277



F. 3D Image



4# System check at 1900 MHz
Date of measurement: 16/7/2025

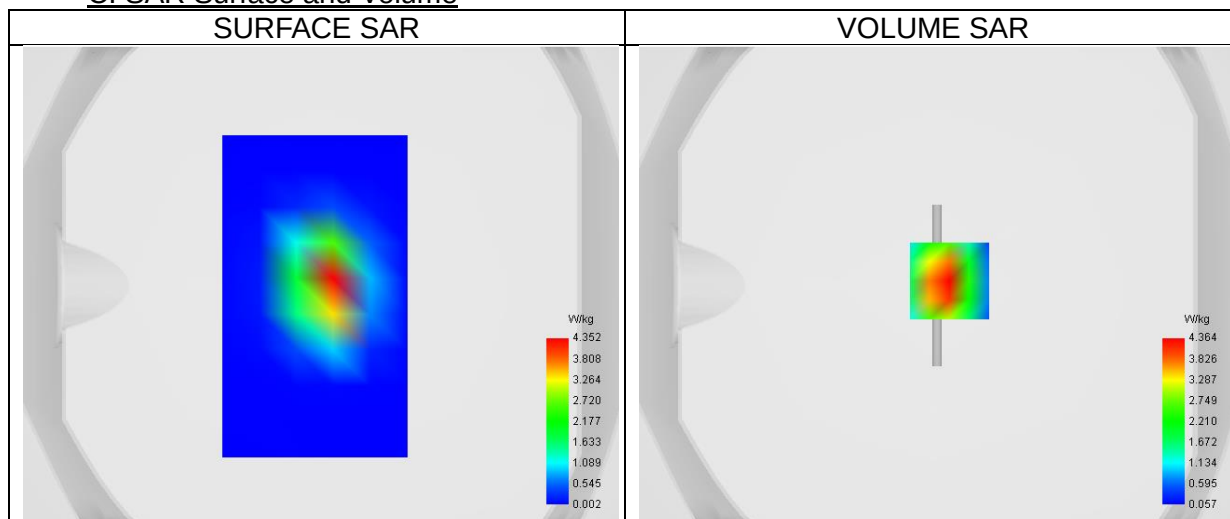
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.58
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	1900.00
Relative permittivity (real part)	38.33
Relative permittivity (imaginary part)	13.70
Conductivity (S/m)	1.44

C. SAR Surface and Volume



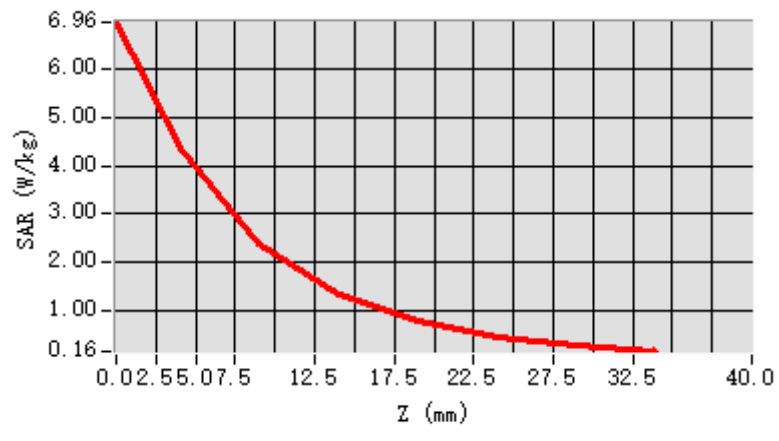
Maximum location: X=5.00, Y=2.00 ; SAR Peak: 7.16 W/kg

D. SAR 1g & 10g

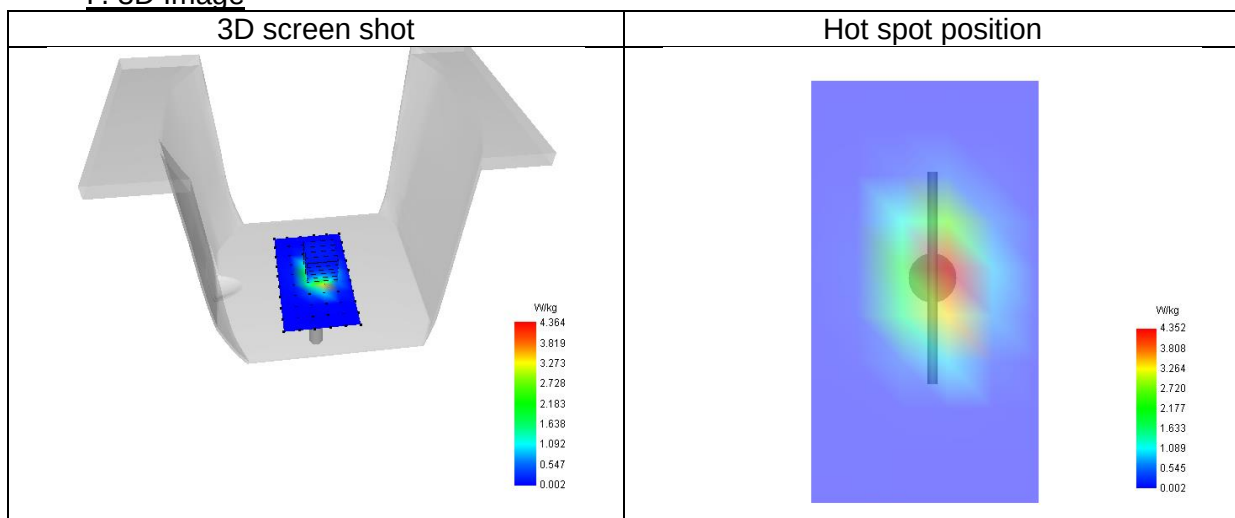
SAR 10g (W/Kg)	2.115
SAR 1g (W/Kg)	4.301
Variation (%)	-0.31
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	54.35

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.964	4.364	2.372	1.347	0.772	0.455	0.268



F. 3D Image



5# System check at 2450 MHz
Date of measurement: 17/7/2025

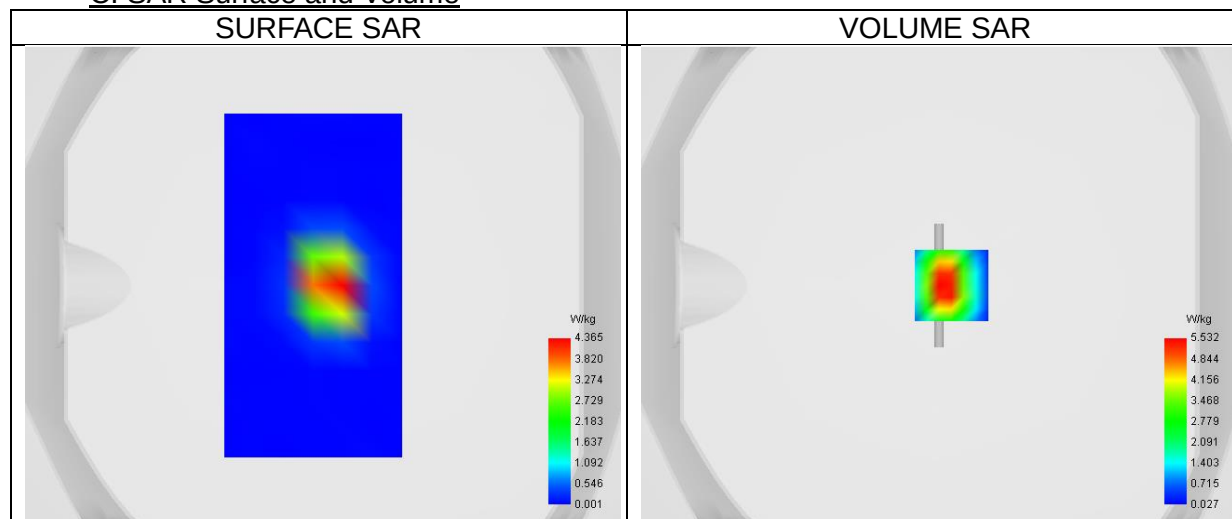
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.63
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	2450.00
Relative permittivity (real part)	38.47
Relative permittivity (imaginary part)	13.56
Conductivity (S/m)	1.85

C. SAR Surface and Volume



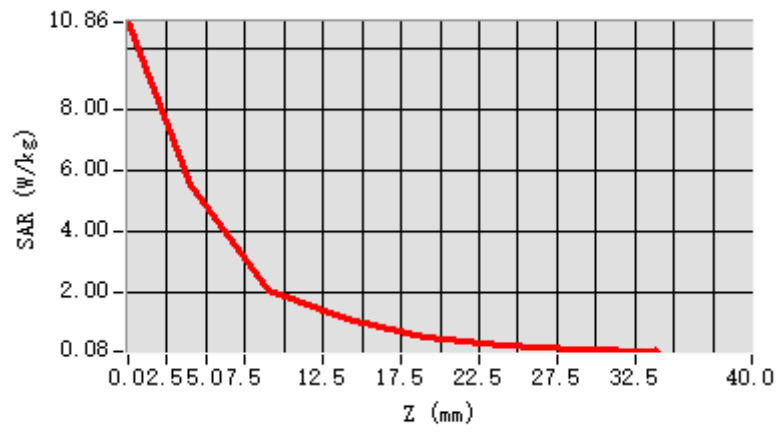
Maximum location: X=5.00, Y=0.00 ; SAR Peak: 10.13 W/kg

D. SAR 1g & 10g

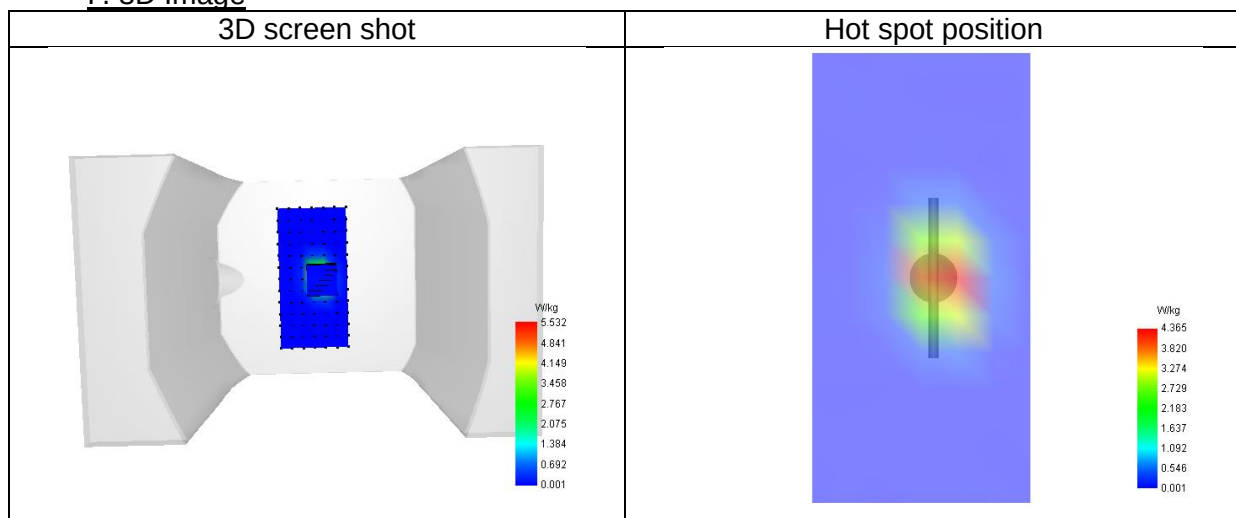
SAR 10g (W/Kg)	2.198
SAR 1g (W/Kg)	5.250
Variation (%)	0.78
Horizontal validation criteria: minimum distance (mm)	10.00
Vertical validation criteria: SAR ratio M2/M1 (%)	46.95

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.863	5.532	2.083	1.152	0.539	0.314	0.140



F. 3D Image



6# System check at 2600 MHz
Date of measurement: 18/7/2025

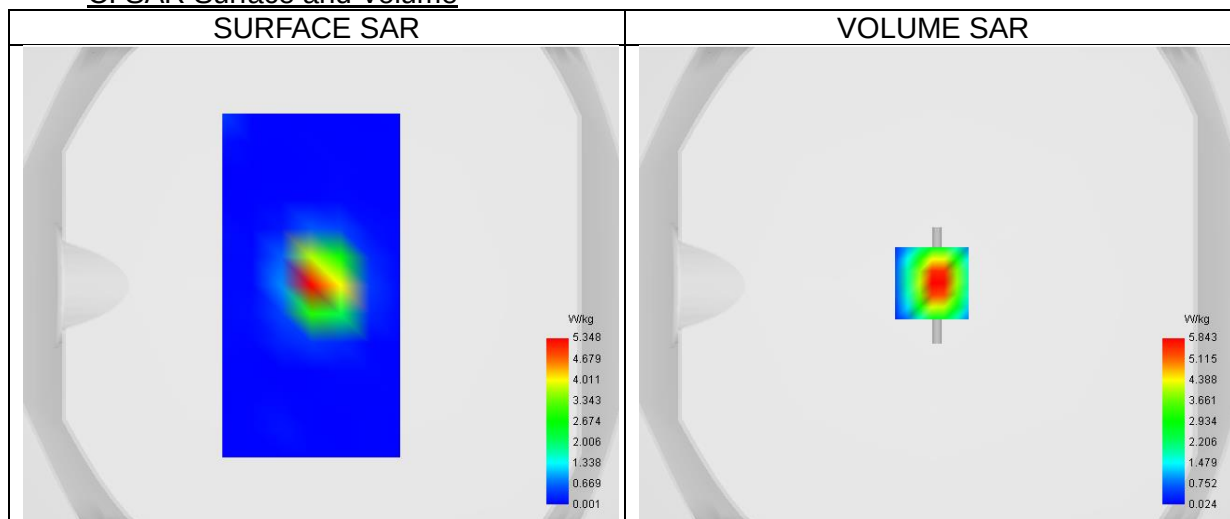
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.52
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	2600.00
Relative permittivity (real part)	39.42
Relative permittivity (imaginary part)	13.55
Conductivity (S/m)	1.96

C. SAR Surface and Volume



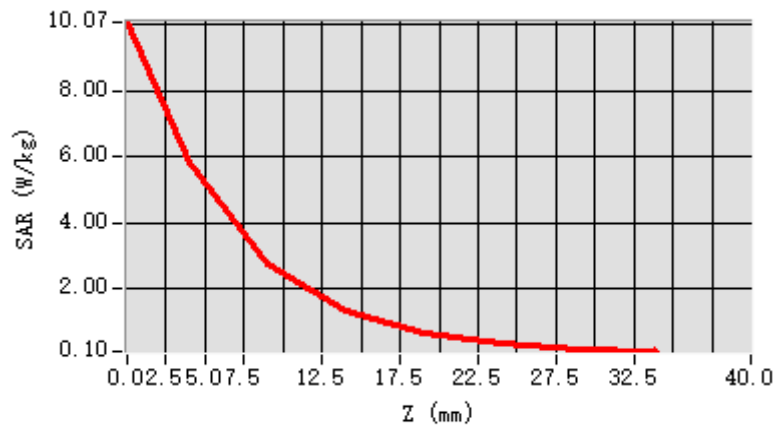
Maximum location: X=-2.00, Y=1.00 ; SAR Peak: 10.47 W/kg

D. SAR 1g & 10g

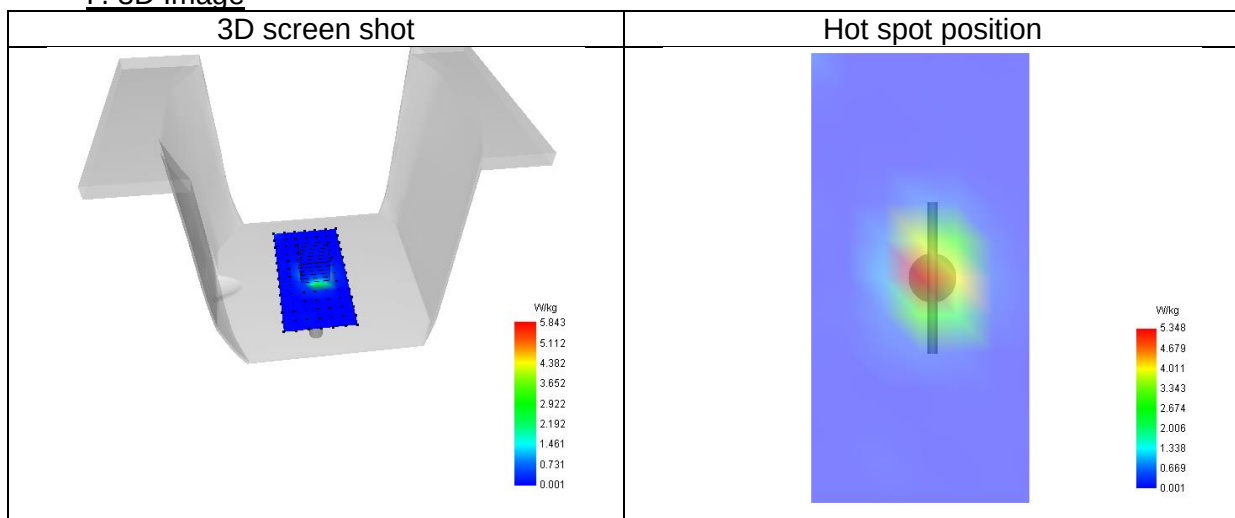
SAR 10g (W/Kg)	2.383
SAR 1g (W/Kg)	5.521
Variation (%)	0.60
Horizontal validation criteria: minimum distance (mm)	10.00
Vertical validation criteria: SAR ratio M2/M1 (%)	47.31

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.070	5.843	2.764	1.355	0.668	0.326	0.186



F. 3D Image



7# System check at 3500 MHz
Date of measurement: 19/8/2025

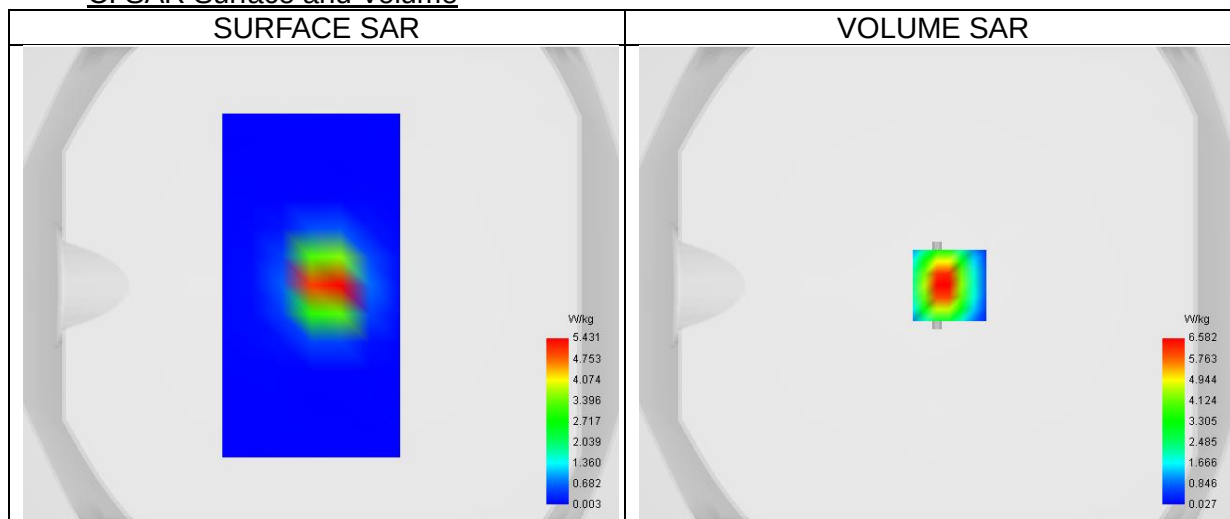
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.39
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW3500
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	3500.00
Relative permittivity (real part)	37.58
Relative permittivity (imaginary part)	14.44
Conductivity (S/m)	2.81

C. SAR Surface and Volume



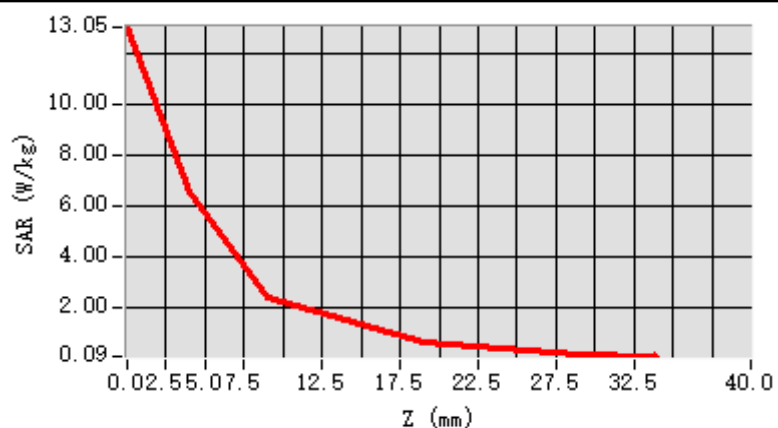
Maximum location: X=5.00, Y=0.00 ; SAR Peak: 11.73 W/kg

D. SAR 1g & 10g

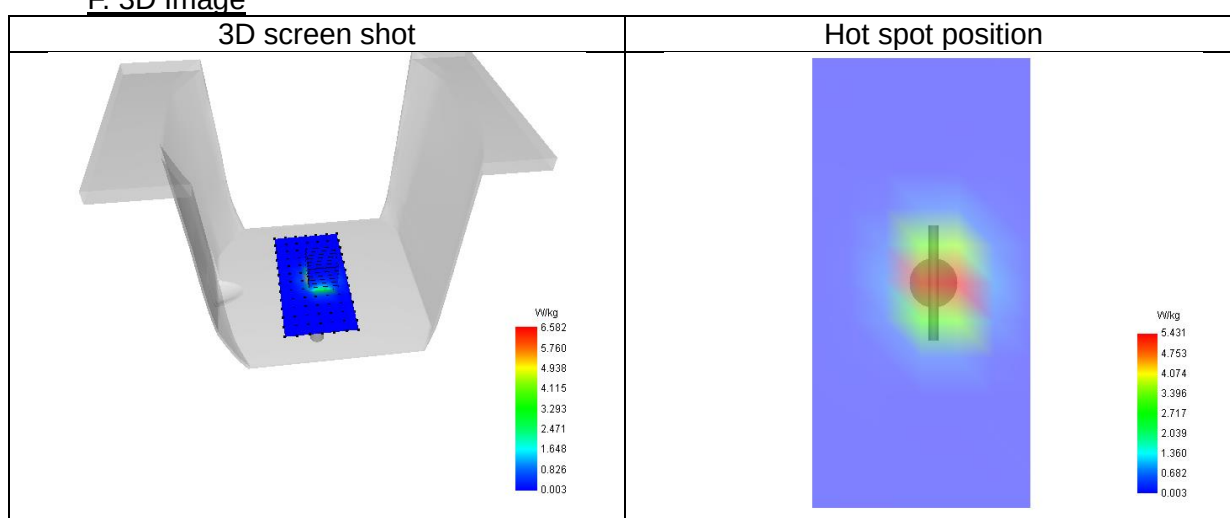
SAR 10g (W/Kg)	2.659
SAR 1g (W/Kg)	6.171
Variation (%)	-0.55
Horizontal validation criteria: minimum distance (mm)	10.00
Vertical validation criteria: SAR ratio M2/M1 (%)	47.92

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	13.053	6.582	2.388	1.546	0.643	0.385	0.171



F. 3D Image



8# System check at 5200 MHz3
3Date of measurement: 10/7/2025

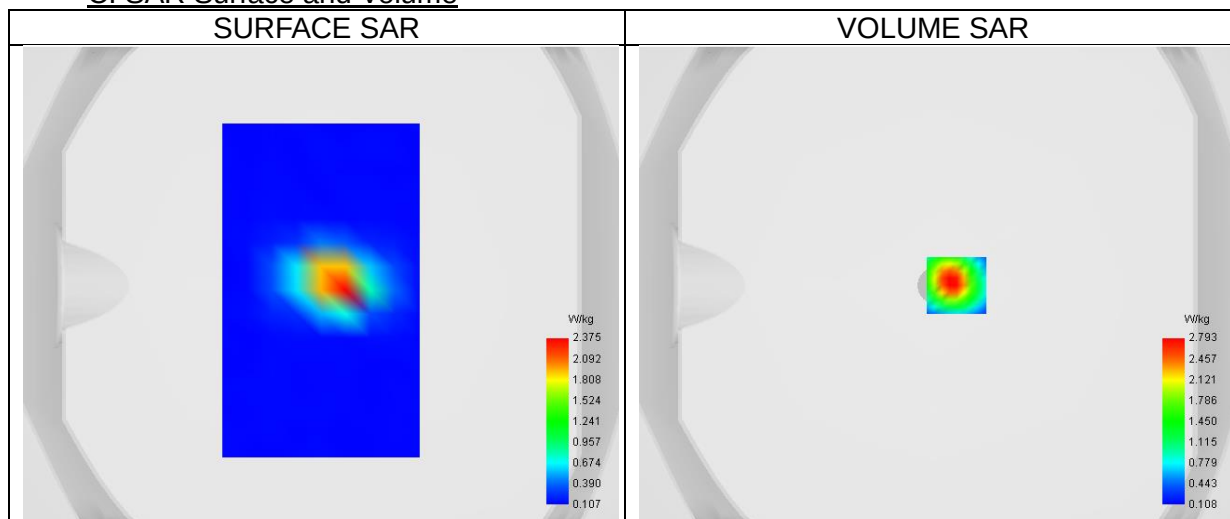
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.37
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	9x9x16,dx=3mm dy=3mm dz=1.5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CW5200
Channels/Frequency	Middle
Signal	CW

B. Permittivity

Middle TX Frequency (MHz)	5200.000
Relative permittivity (real part)	37.29
Relative permittivity (imaginary part)	15.77
Conductivity (S/m)	4.56

C. SAR Surface and Volume



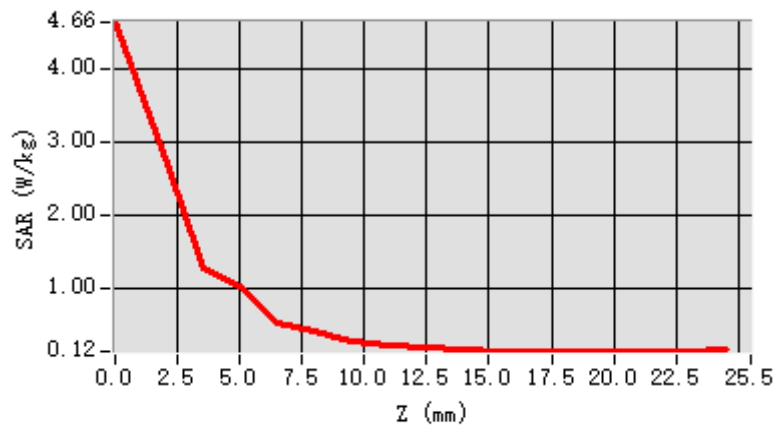
Maximum location: X=8.00, Y=0.00 ; SAR Peak: 5.11 W/kg

D. SAR 1g & 10g

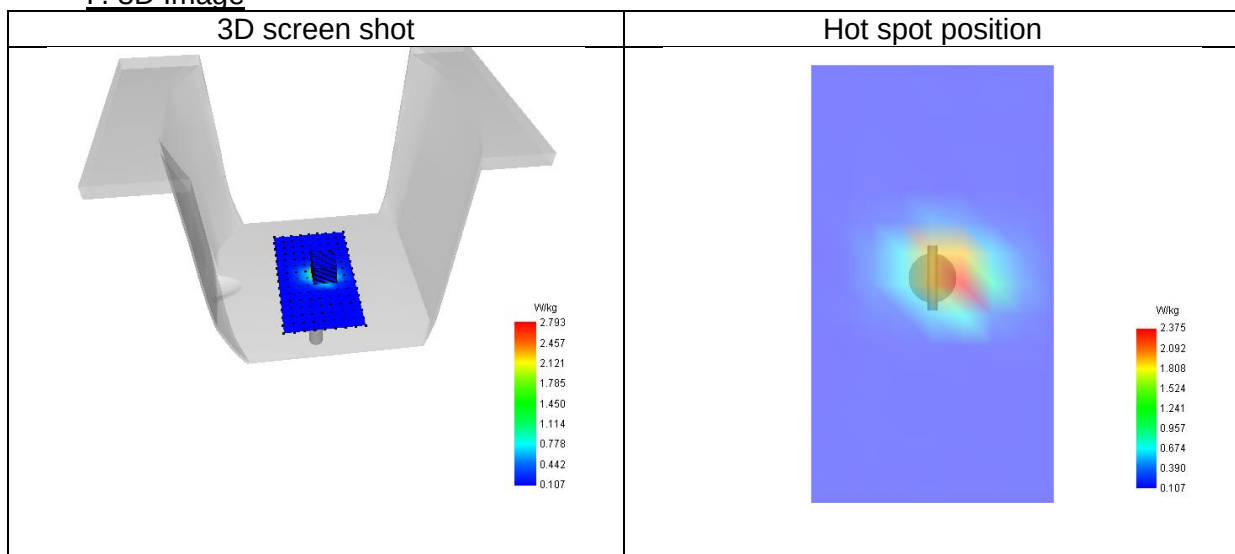
SAR 10g (W/Kg)	0.618
SAR 1g (W/Kg)	1.650
Variation (%)	-0.59
Horizontal validation criteria: minimum distance (mm)	9.49
Vertical validation criteria: SAR ratio M2/M1 (%)	58.25

E. Z Axis Scan

Z (mm)	0.0	2.0	3.5	5.0	6.5	8.0	9.5	11.	12.	14.	15.	17.	18.	20.	21.	23.
	0	0	0	0	0	0	0	00	50	00	50	00	50	00	50	00
SAR (W/Kg)	4.6	2.7	1.2	1.0	0.5	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	56	93	57	04	04	05	51	20	66	50	36	31	22	23	30	32



F. 3D Image



9# System check at 5600 MHz
Date of measurement: 23/7/2025

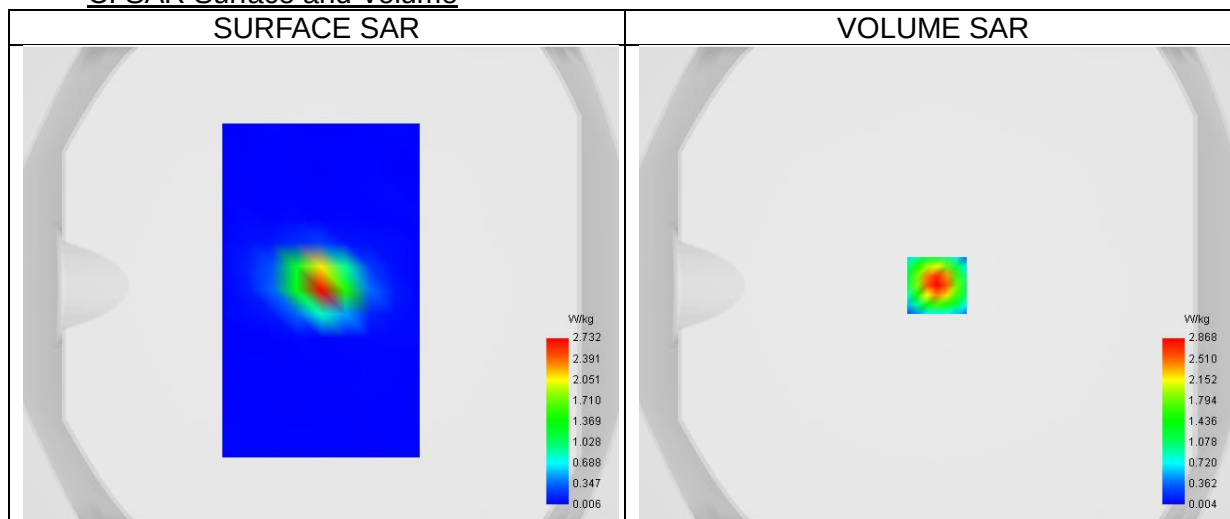
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.36
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	5600.00
Relative permittivity (real part)	35.63
Relative permittivity (imaginary part)	16.08
Conductivity (S/m)	5.00

C. SAR Surface and Volume



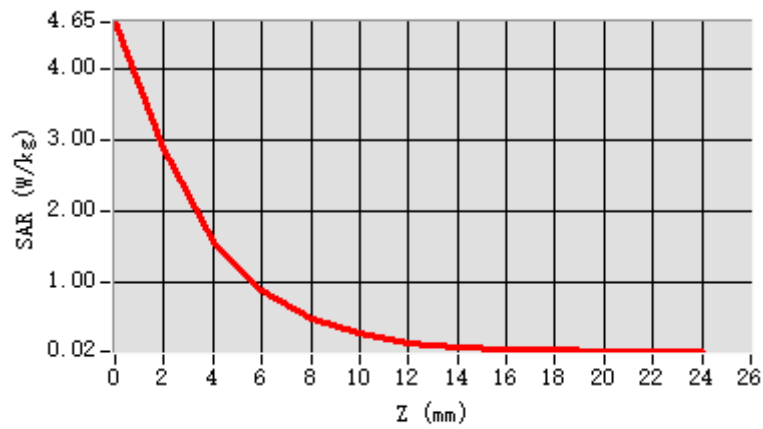
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 4.95 W/kg

D. SAR 1g & 10g

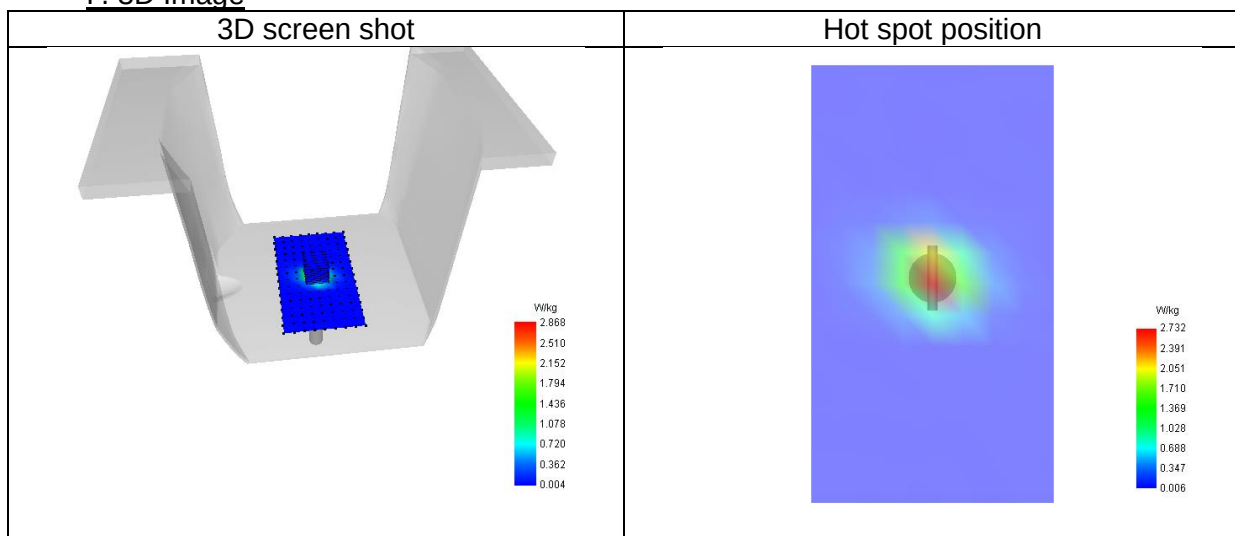
SAR 10g (W/Kg)	0.565
SAR 1g (W/Kg)	1.669
Variation (%)	0.19
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	54.51

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	4.64	2.86	1.56	0.87	0.48	0.27	0.13	0.08	0.04	0.03	0.02	0.02
	9	8	3	5	8	0	5	0	8	8	2	8



F. 3D Image



10# System check at 5800 MHz
Date of measurement: 12/7/2025

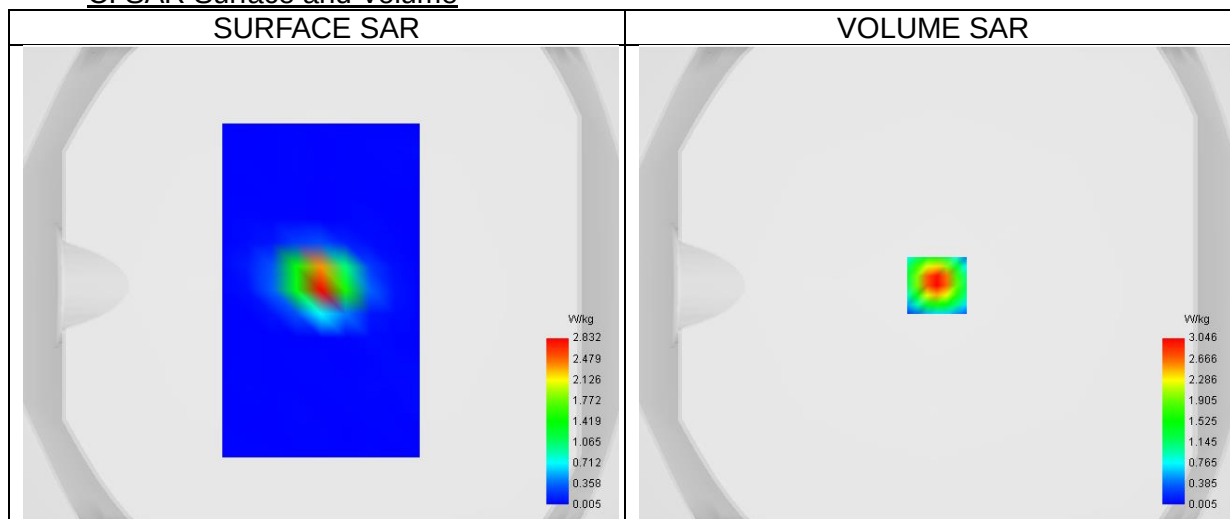
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.35
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	5800.00
Relative permittivity (real part)	35.90
Relative permittivity (imaginary part)	15.84
Conductivity (S/m)	5.10

C. SAR Surface and Volume



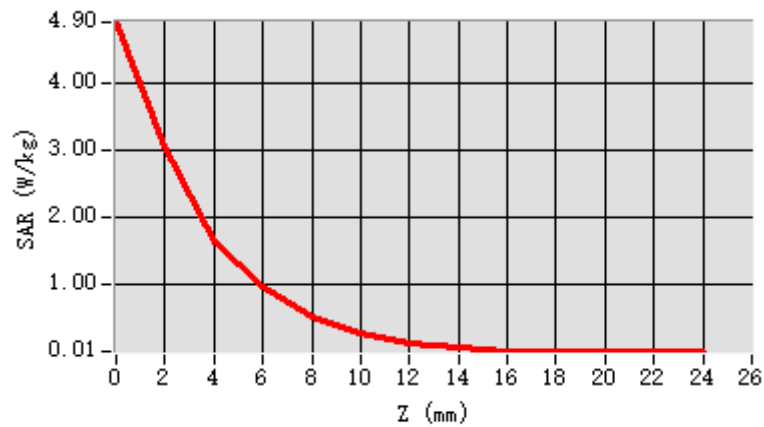
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 5.35 W/kg

D. SAR 1g & 10g

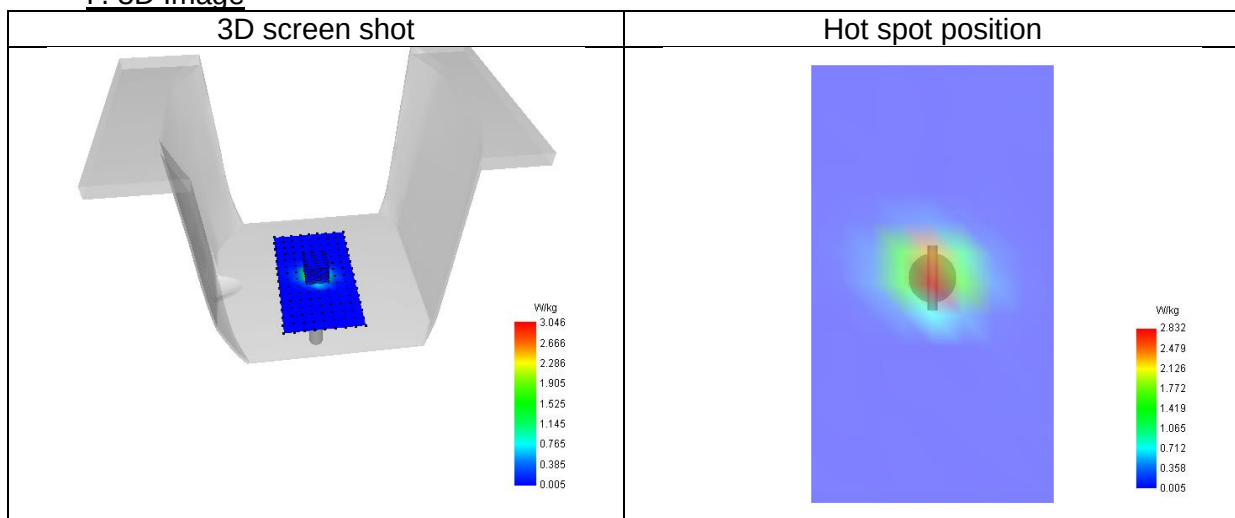
SAR 10g (W/Kg)	0.598
SAR 1g (W/Kg)	1.790
Variation (%)	-0.20
Horizontal validation criteria: minimum distance (mm)	8.94
Vertical validation criteria: SAR ratio M2/M1 (%)	54.31

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/Kg)	4.89 5	3.04 6	1.65 4	0.96 2	0.52 7	0.27 6	0.13 6	0.07 5	0.01 7	0.01 9	0.01 2	0.01 3



F. 3D Image



4. Appendix C. Plots of High SAR Measurement

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19# SAR Measurement at LTE band 5 (Body, Validation Plane)
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1# SAR Measurement at GPRS850 (Body, Validation Plane)

Date of measurement: 14/7/2025

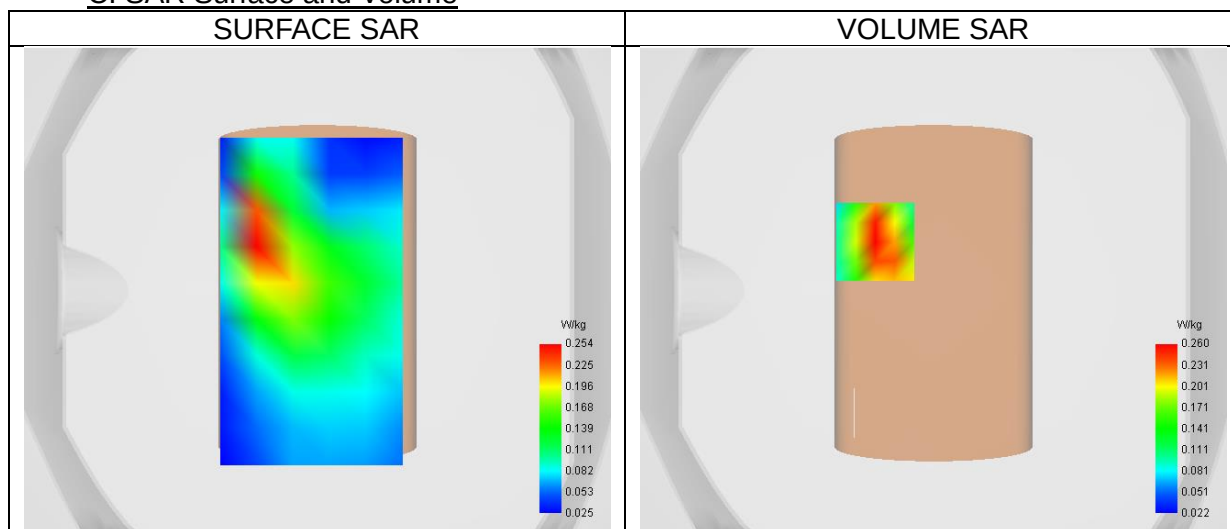
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS850
Signal	TDMA (GPRS)
Channels/Frequency	Middle (189)/ frequency 836.40 Mhz
Modulation	GMSK (CS-4)
TX-slots	4

B. Permittivity

Middle TX Frequency (MHz)	836.40
Relative permittivity (real part)	42.13
Relative permittivity (imaginary part)	19.99
Conductivity (S/m)	0.93

C. SAR Surface and Volume



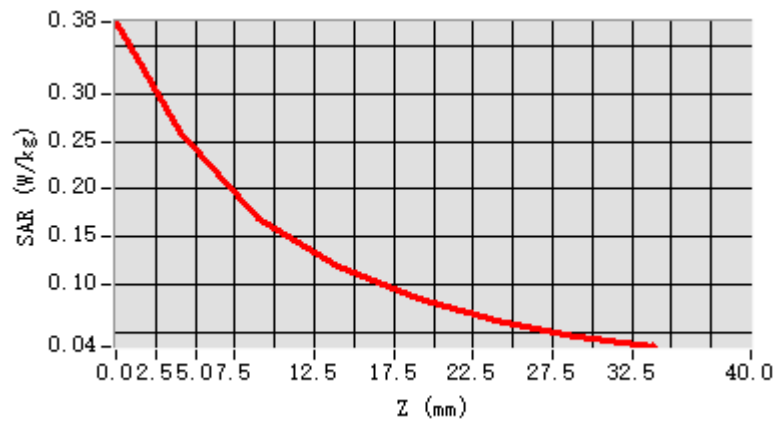
Maximum location: X=-24.00, Y=20.00 ; SAR Peak: 0.38 W/kg

D. SAR 1g & 10g

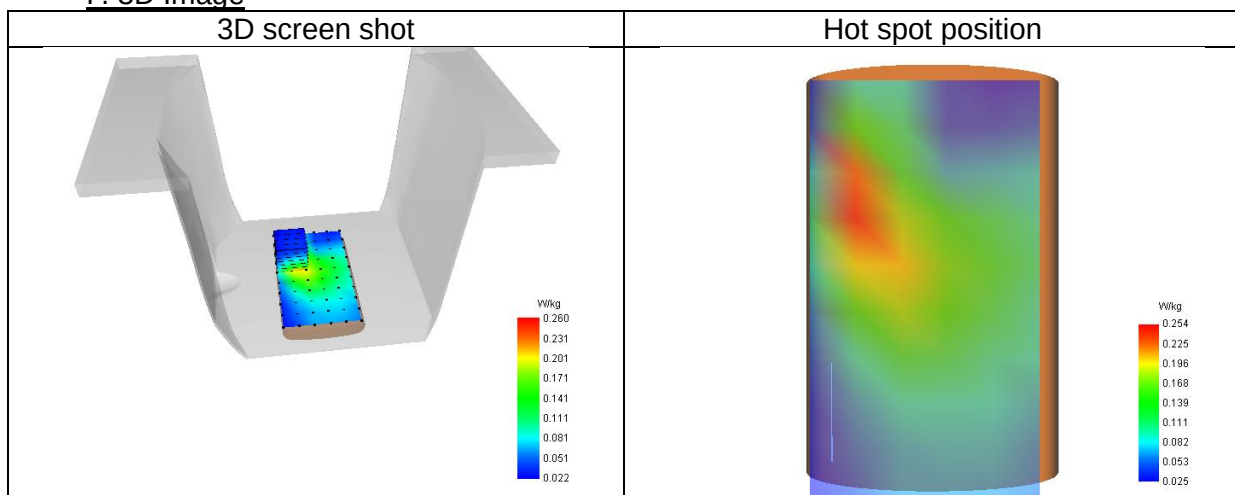
SAR 10g (W/Kg)	0.147
SAR 1g (W/Kg)	0.253
Variation (%)	1.71
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	65.25

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.375	0.260	0.170	0.118	0.085	0.062	0.045



F. 3D Image



2# SAR Measurement at GPRS1900 (Body, Validation Plane)

Date of measurement: 16/7/2025

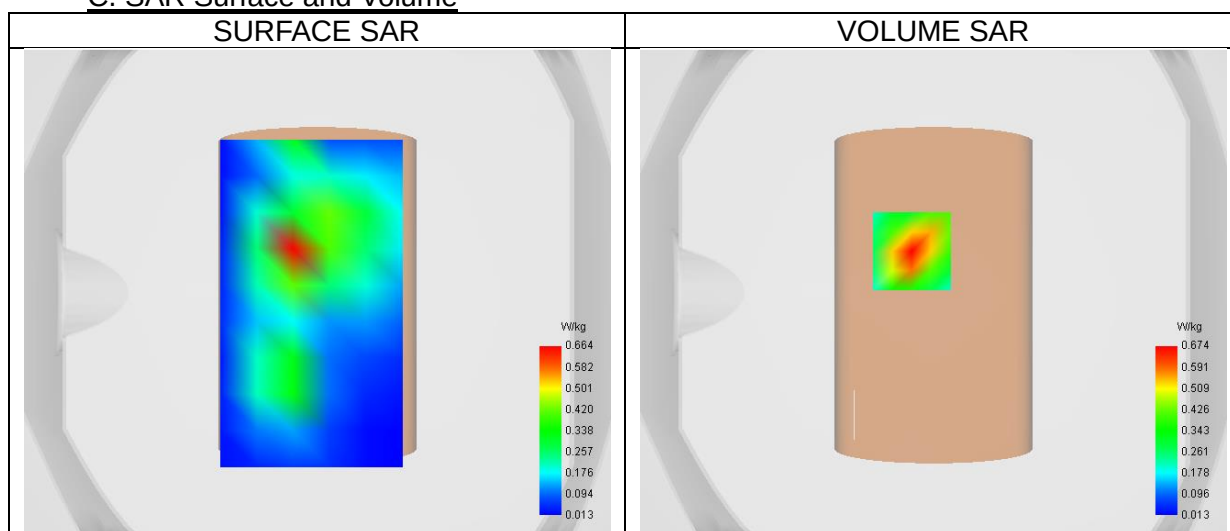
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.58
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS1900
Signal	TDMA (GPRS)
Channels/Frequency	Middle (661)/ frequency 1880.00 Mhz
Modulation	GMSK (CS-4)
TX-slots	4

B. Permittivity

Middle TX Frequency (MHz)	1880.00
Relative permittivity (real part)	38.41
Relative permittivity (imaginary part)	13.72
Conductivity (S/m)	1.43

C. SAR Surface and Volume



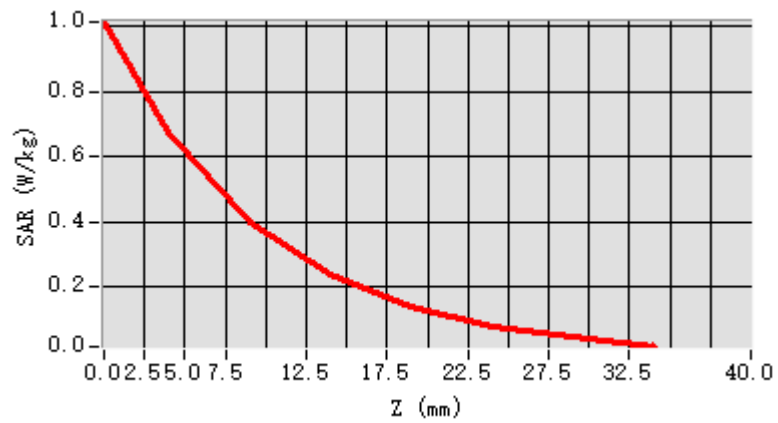
Maximum location: X=-9.00, Y=17.00 ; SAR Peak: 1.03 W/kg

D. SAR 1g & 10g

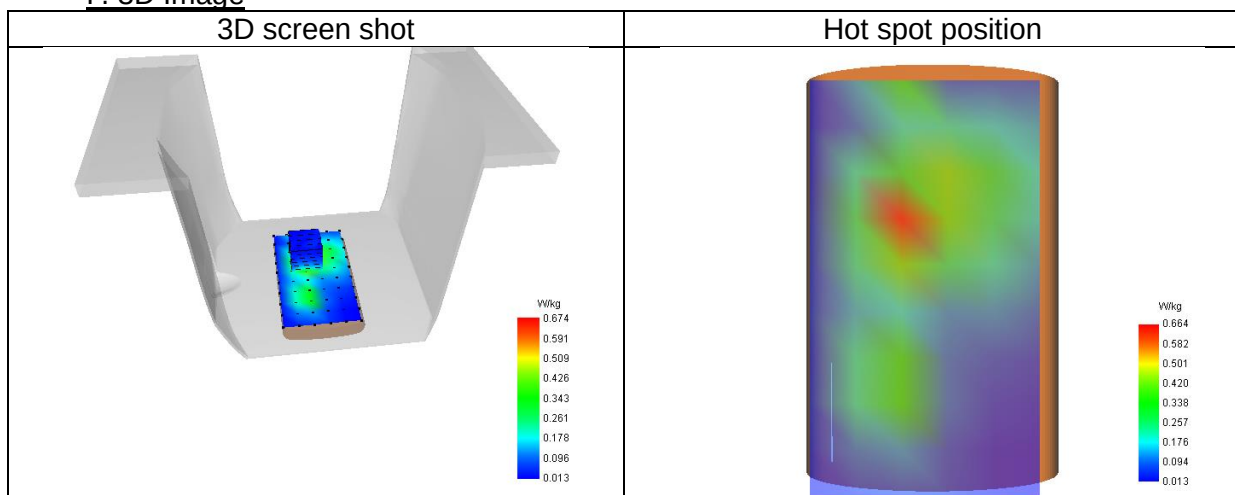
SAR 10g (W/Kg)	0.336
SAR 1g (W/Kg)	0.640
Variation (%)	1.55
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	58.76

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.013	0.674	0.396	0.237	0.143	0.082	0.049



F. 3D Image



3# SAR Measurement at Band 2 (1900) (Body, Validation Plane)

Date of measurement: 16/7/2025

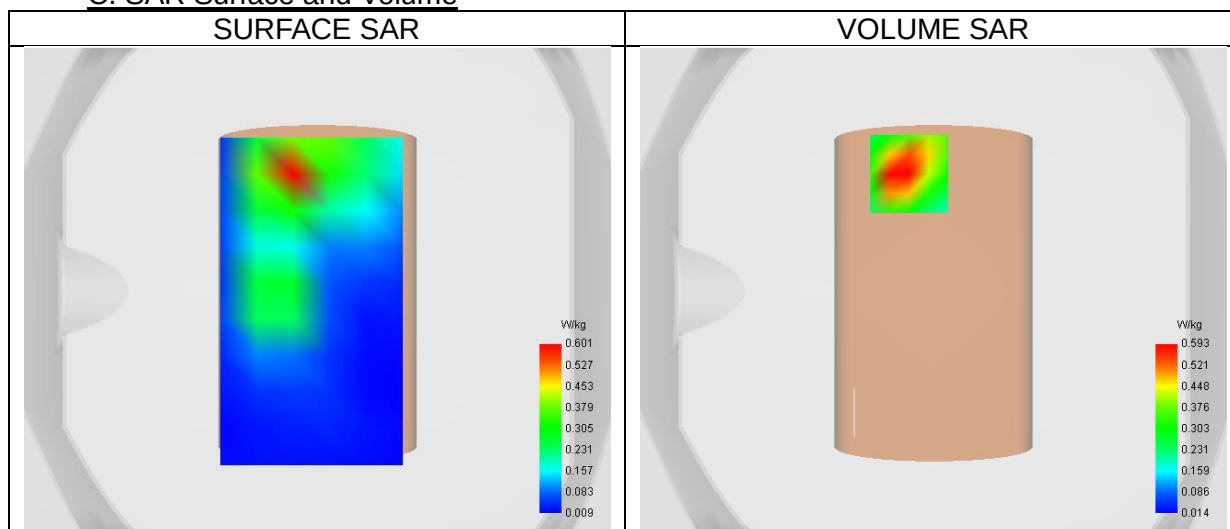
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.58
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 2 (1900)
Signal	WCDMA
Channels/Frequency	Middle (9400)/ frequency 1880.00 Mhz
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Middle TX Frequency (MHz)	1880.00
Relative permittivity (real part)	38.41
Relative permittivity (imaginary part)	13.72
Conductivity (S/m)	1.43

C. SAR Surface and Volume



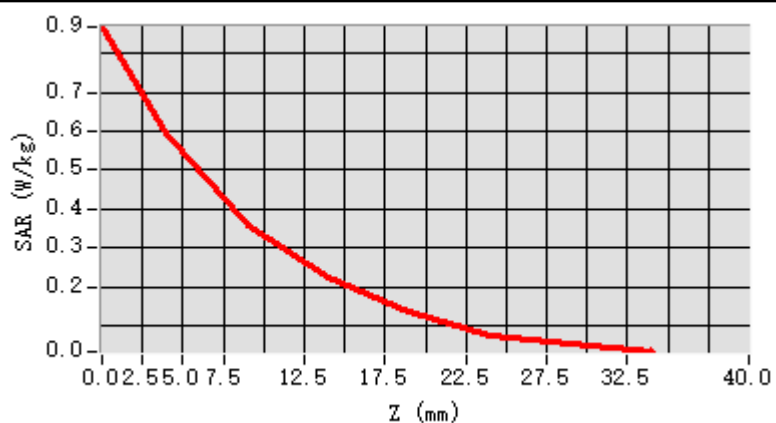
Maximum location: X=-10.00, Y=48.00 ; SAR Peak: 0.95 W/kg

D. SAR 1g & 10g

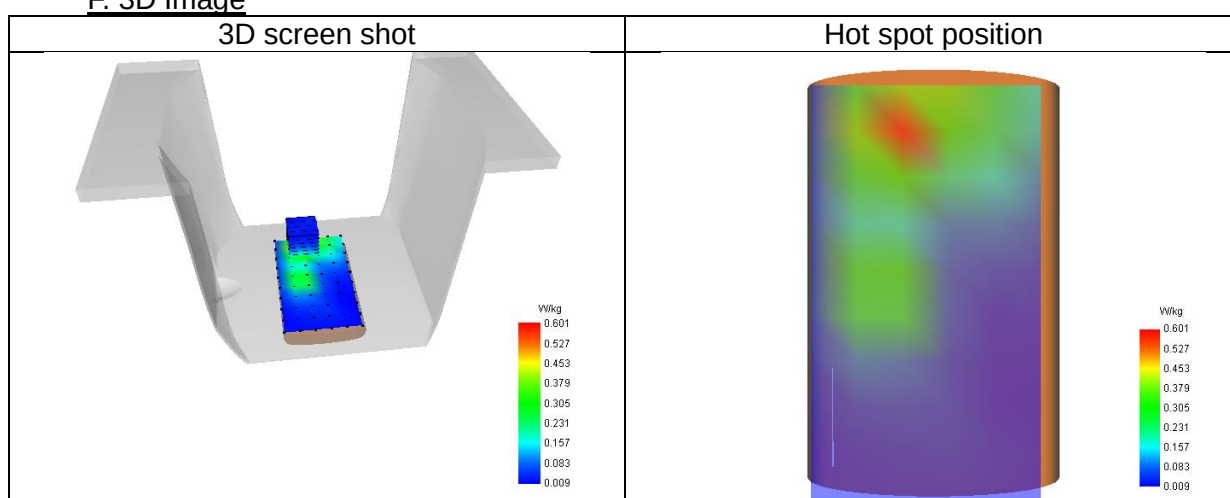
SAR 10g (W/Kg)	0.312
SAR 1g (W/Kg)	0.598
Variation (%)	1.23
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	60.45

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.868	0.593	0.358	0.222	0.135	0.076	0.053



F. 3D Image



4# SAR Measurement at Band 5 (850) (Body, Validation Plane)

Date of measurement: 14/7/2025

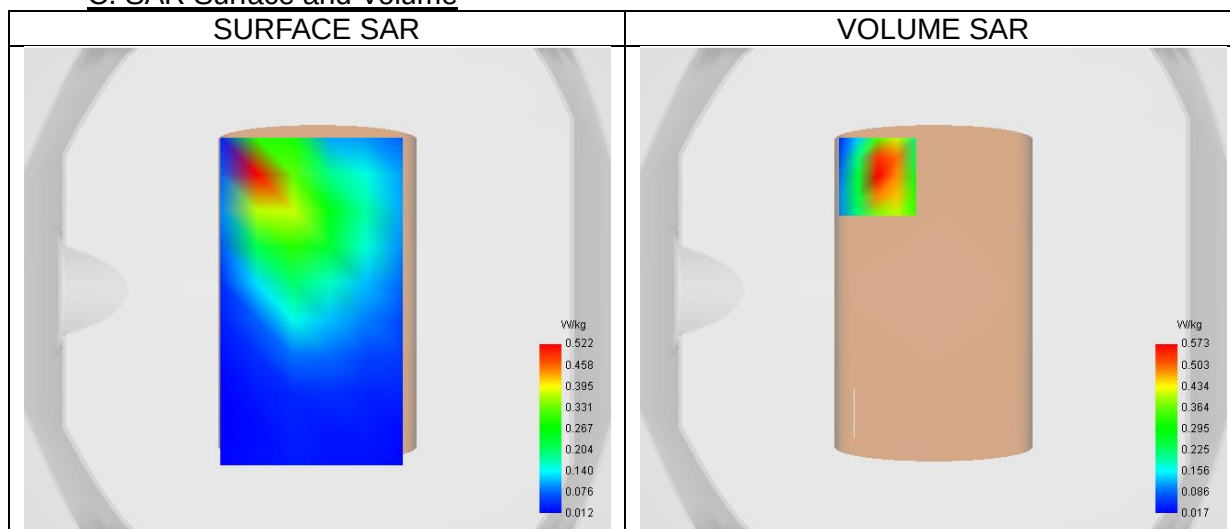
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 5 (850)
Signal	WCDMA
Channels/Frequency	Middle (4182)/ frequency 836.40 Mhz
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Middle TX Frequency (MHz)	836.40
Relative permittivity (real part)	42.13
Relative permittivity (imaginary part)	19.99
Conductivity (S/m)	0.93

C. SAR Surface and Volume



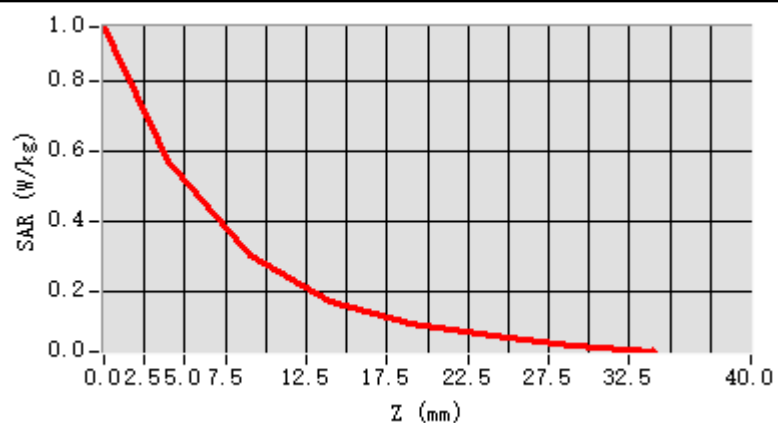
Maximum location: X=-23.00, Y=47.00 ; SAR Peak: 1.01 W/kg

D. SAR 1g & 10g

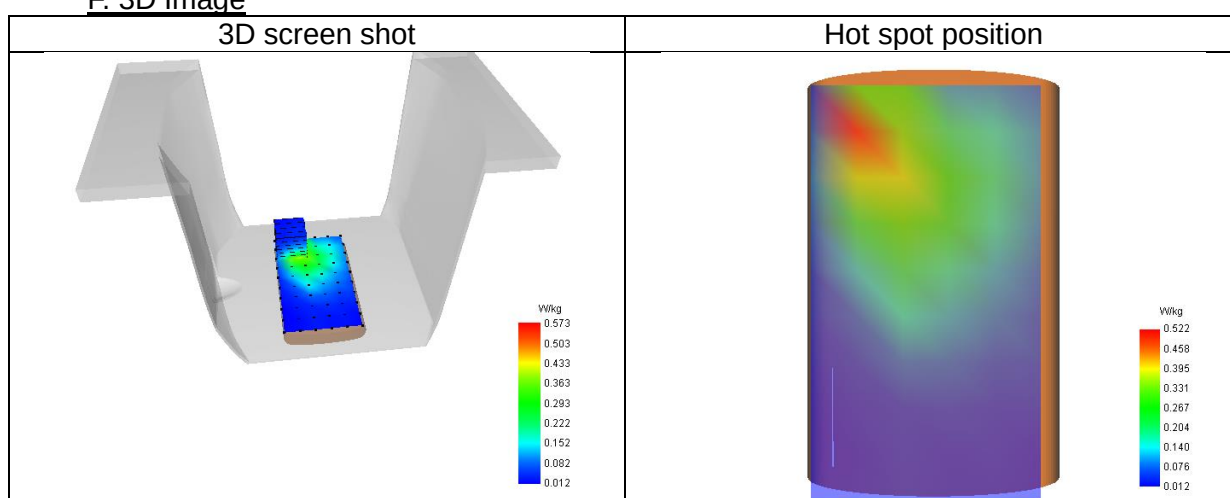
SAR 10g (W/Kg)	0.270
SAR 1g (W/Kg)	0.568
Variation (%)	-1.21
Horizontal validation criteria: minimum distance (mm)	8.00
Vertical validation criteria: SAR ratio M2/M1 (%)	52.84

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.950	0.573	0.303	0.173	0.112	0.076	0.049



F. 3D Image



5# SAR Measurement at U-NII-1 (Body, Validation Plane)

Date of measurement: 10/7/2025

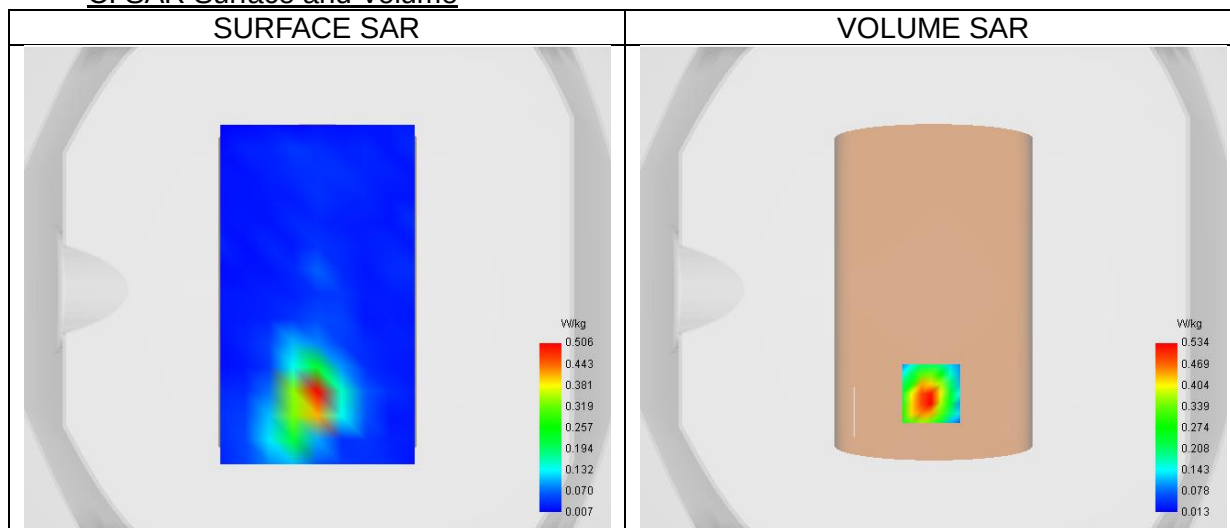
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.37
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-1
Signal	IEEE 802.11 a
Channels/Frequency	Middle (40)/ frequency 5200.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5200.00
Relative permittivity (real part)	37.29
Relative permittivity (imaginary part)	15.77
Conductivity (S/m)	4.56

C. SAR Surface and Volume



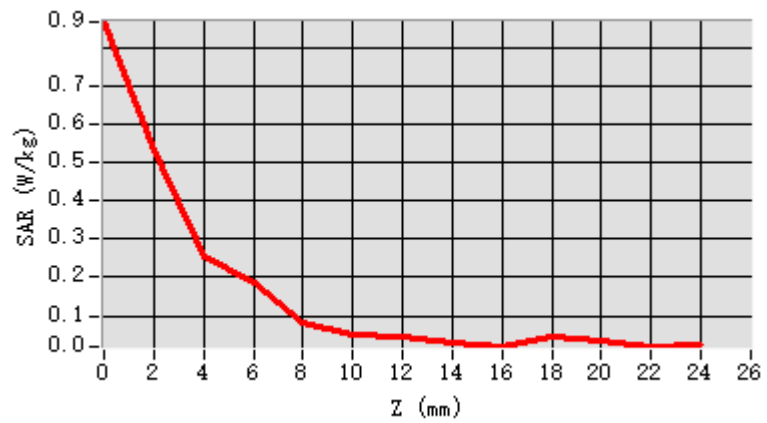
Maximum location: X=-1.00, Y=-43.00 ; SAR Peak: 0.97 W/kg

D. SAR 1g & 10g

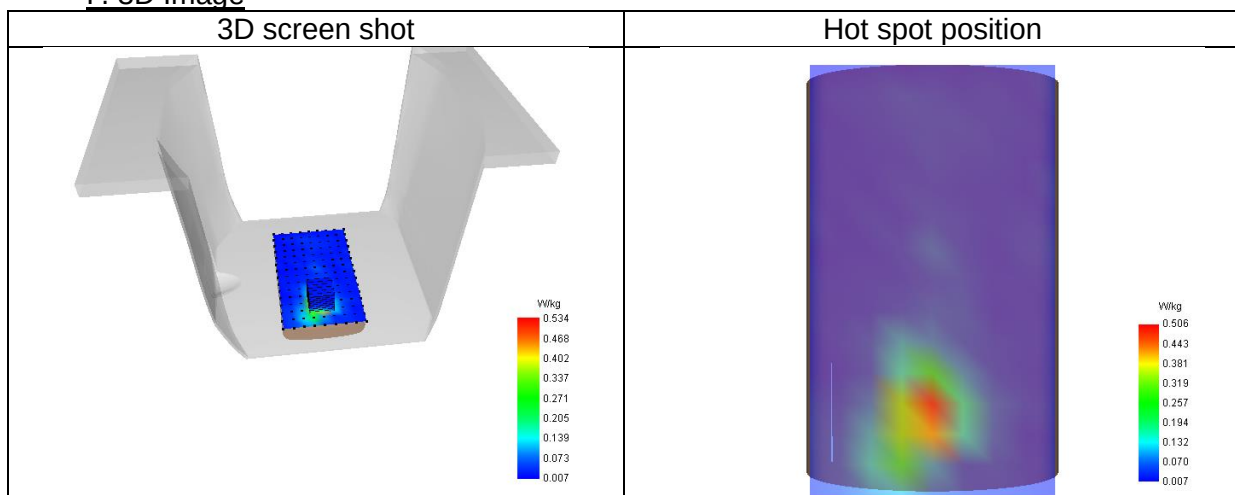
SAR 10g (W/Kg)	0.112
SAR 1g (W/Kg)	0.303
Variation (%)	1.68
Horizontal validation criteria: minimum distance (mm)	8.00
Vertical validation criteria: SAR ratio M2/M1 (%)	59.65

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	0.86	0.53	0.25	0.18	0.08	0.05	0.04	0.03	0.01	0.04	0.03	0.02
	7	4	2	5	0	3	6	2	9	5	7	1



F. 3D Image



6# SAR Measurement at U-NII-1 (Body, Validation Plane)

Date of measurement: 10/7/2025

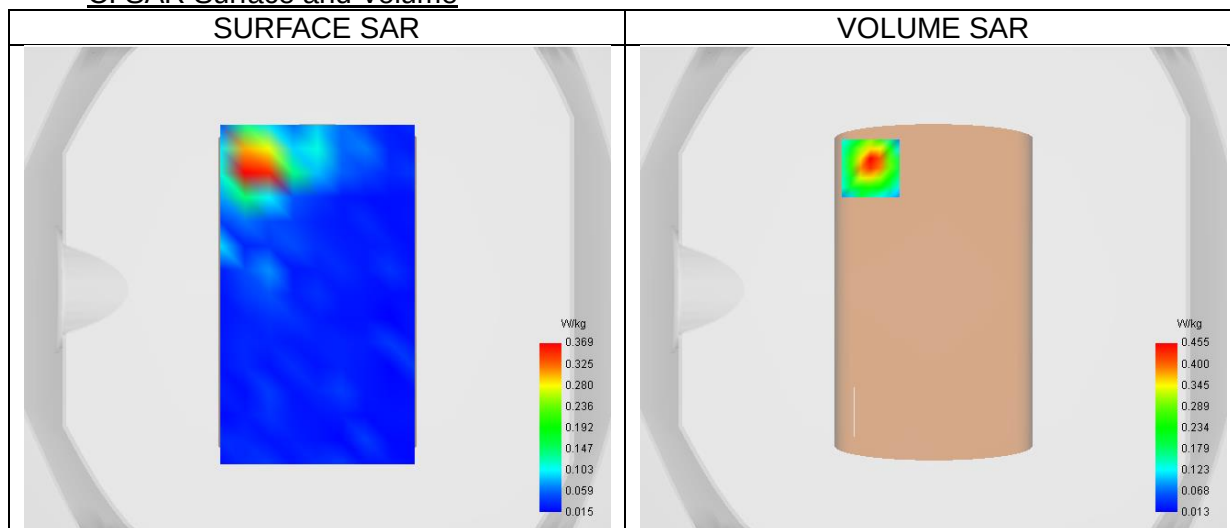
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.37
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-1
Signal	IEEE 802.11 a
Channels/Frequency	Middle (40)/ frequency 5200.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5200.00
Relative permittivity (real part)	37.29
Relative permittivity (imaginary part)	15.77
Conductivity (S/m)	4.56

C. SAR Surface and Volume



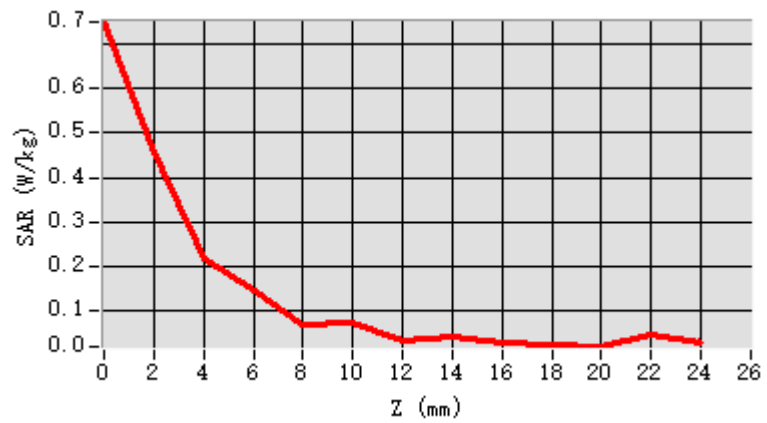
Maximum location: X=-26.00, Y=50.00 ; SAR Peak: 0.81 W/kg

D. SAR 1g & 10g

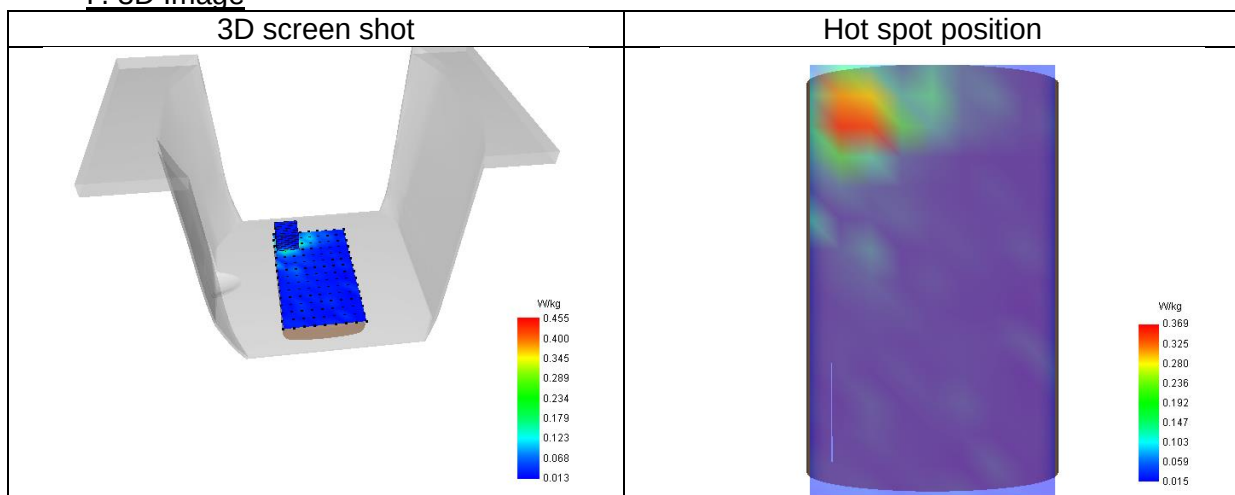
SAR 10g (W/Kg)	0.097
SAR 1g (W/Kg)	0.262
Variation (%)	1.38
Horizontal validation criteria: minimum distance (mm)	8.94
Vertical validation criteria: SAR ratio M2/M1 (%)	56.83

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	0.74	0.45	0.22	0.14	0.07	0.07	0.03	0.04	0.03	0.02	0.02	0.04
	8	5	0	6	2	3	3	4	1	7	1	9



F. 3D Image



7# SAR Measurement at U-NII-1 (Body, Validation Plane)

Date of measurement: 10/7/2025

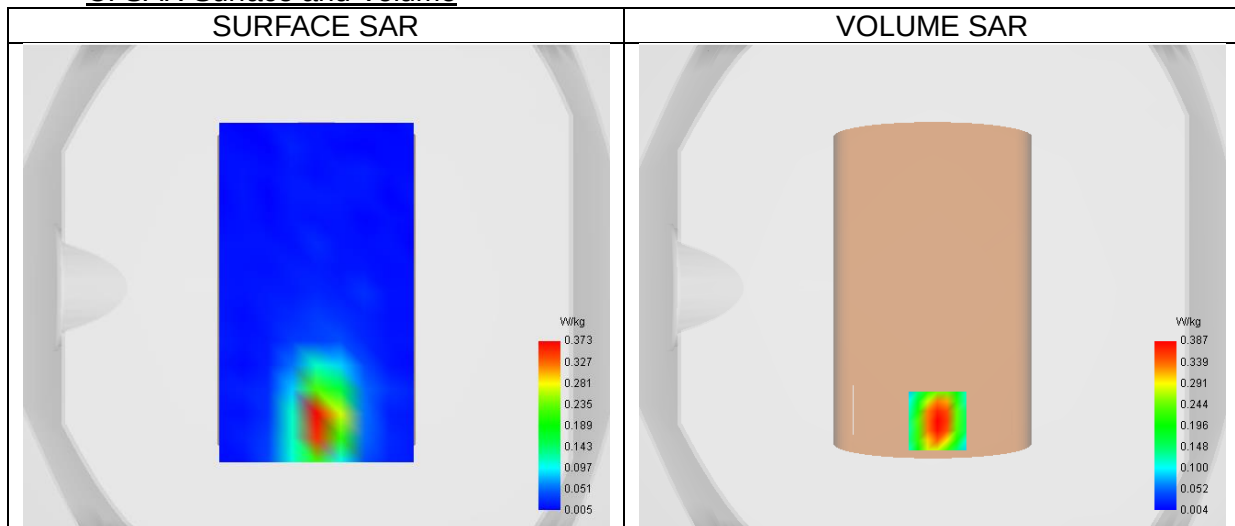
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.37
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-1
Signal	IEEE 802.11 a
Channels/Frequency	Middle (40)/ frequency 5200.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5200.00
Relative permittivity (real part)	37.29
Relative permittivity (imaginary part)	15.77
Conductivity (S/m)	4.56

C. SAR Surface and Volume



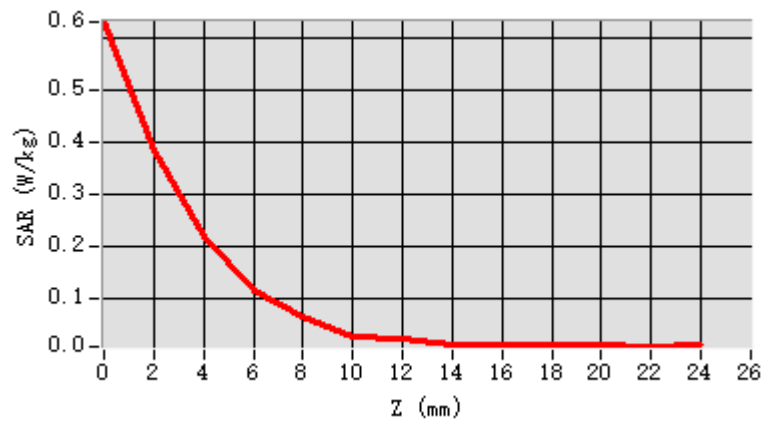
Maximum location: X=2.00, Y=-55.00 ; SAR Peak: 0.64 W/kg

D. SAR 1g & 10g

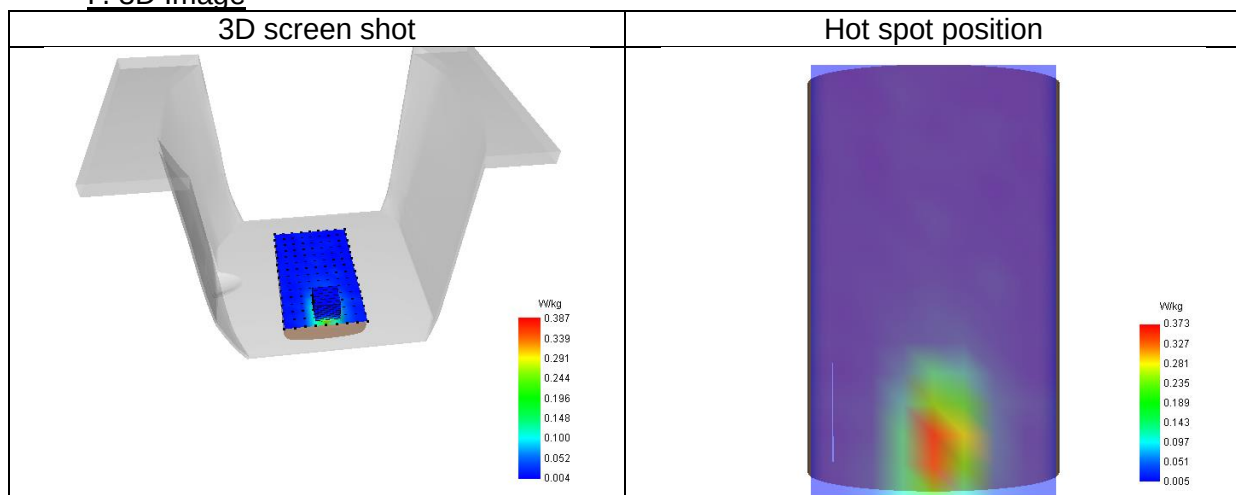
SAR 10g (W/Kg)	0.081
SAR 1g (W/Kg)	0.221
Variation (%)	4.49
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	57.34

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	0.63	0.38	0.22	0.11	0.06	0.02	0.02	0.01	0.01	0.01	0.01	0.00
	2	7	2	6	6	9	6	4	3	2	5	9



F. 3D Image



8# SAR Measurement at U-NII-2c (Body, Validation Plane)

Date of measurement: 23/7/2025

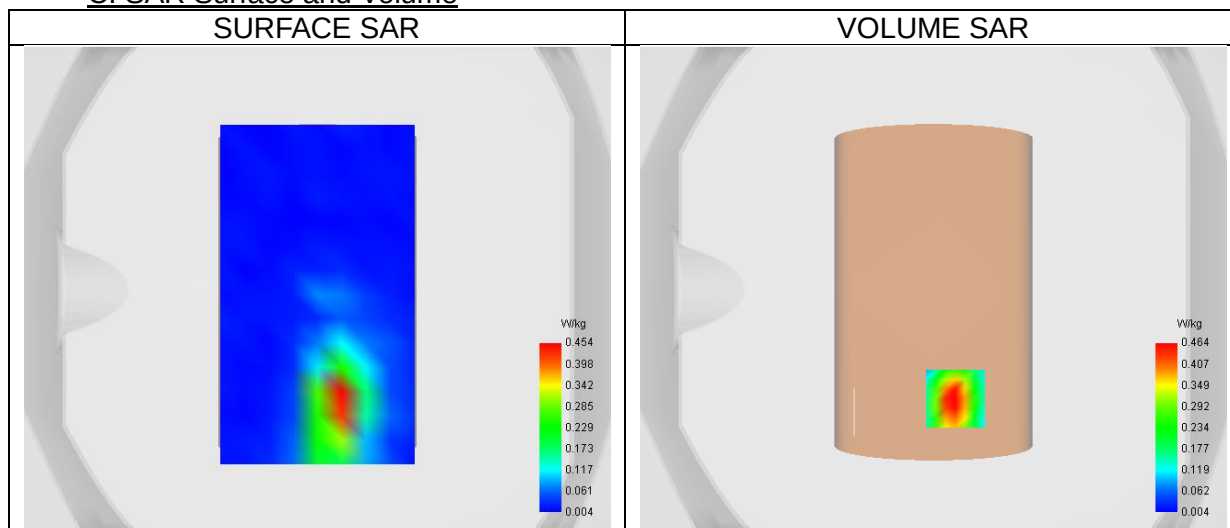
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.36
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-2c
Signal	IEEE 802.11 a
Channels/Frequency	Middle (120)/ frequency 5600.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5600.00
Relative permittivity (real part)	35.63
Relative permittivity (imaginary part)	16.08
Conductivity (S/m)	5.00

C. SAR Surface and Volume



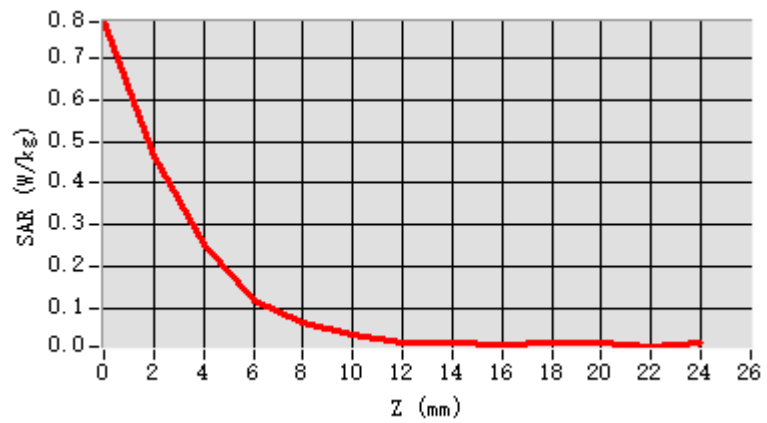
Maximum location: X=9.00, Y=-45.00 ; SAR Peak: 0.85 W/kg

D. SAR 1g & 10g

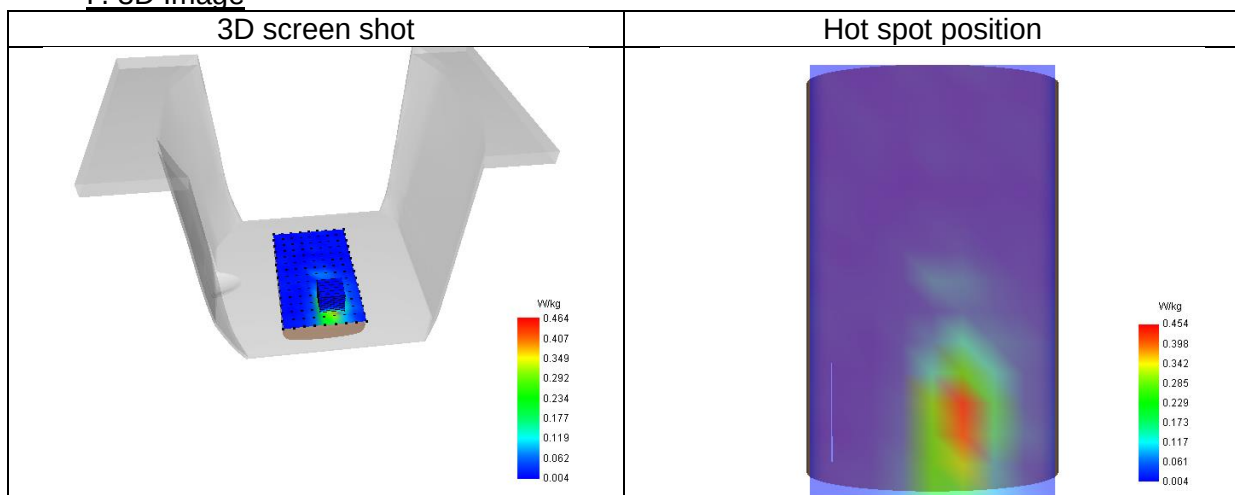
SAR 10g (W/Kg)	0.093
SAR 1g (W/Kg)	0.260
Variation (%)	-0.77
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	53.95

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	0.78	0.46	0.25	0.11	0.06	0.03	0.01	0.01	0.01	0.01	0.01	0.00
	8	4	0	7	2	4	7	7	3	6	6	6



F. 3D Image



9# SAR Measurement at U-NII-2c (Body, Validation Plane)

Date of measurement: 23/7/2025

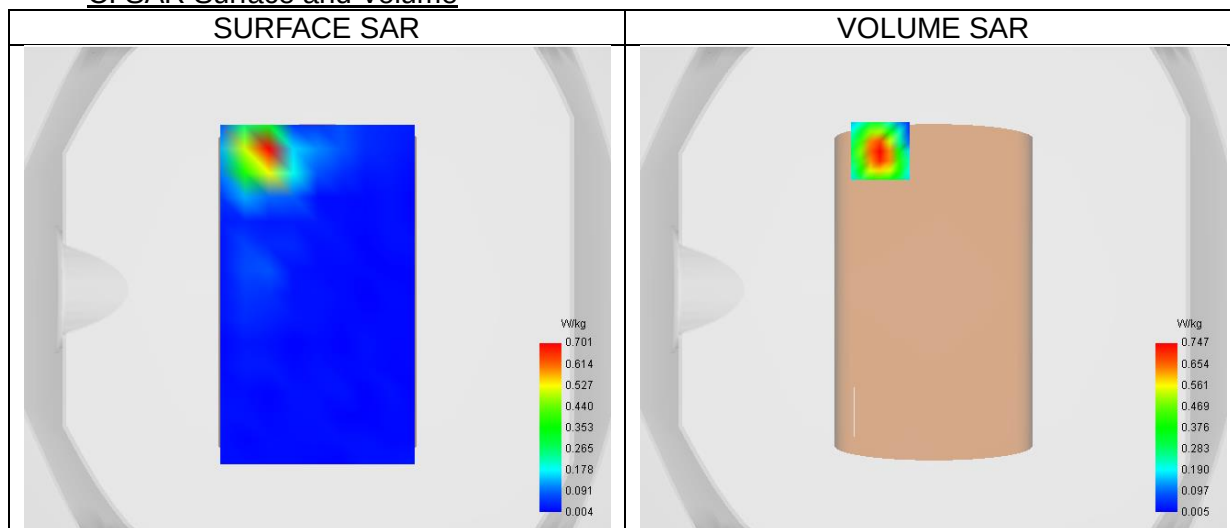
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.36
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-2c
Signal	IEEE 802.11 a
Channels/Frequency	Middle (120)/ frequency 5600.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5600.00
Relative permittivity (real part)	35.63
Relative permittivity (imaginary part)	16.08
Conductivity (S/m)	5.00

C. SAR Surface and Volume



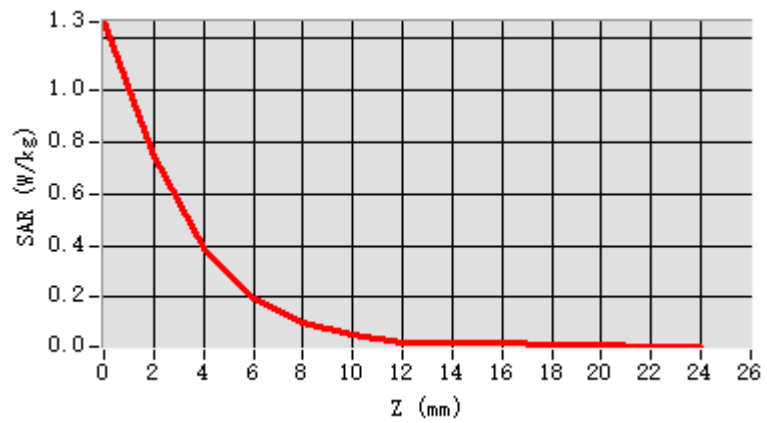
Maximum location: X=-22.00, Y=57.00 ; SAR Peak: 1.32 W/kg

D. SAR 1g & 10g

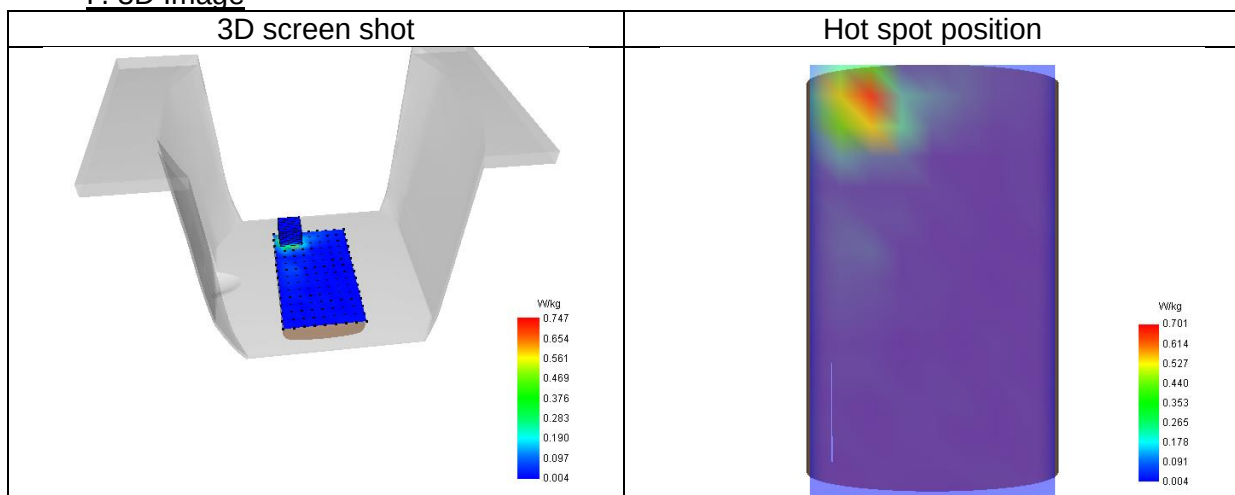
SAR 10g (W/Kg)	0.149
SAR 1g (W/Kg)	0.427
Variation (%)	-1.57
Horizontal validation criteria: minimum distance (mm)	8.00
Vertical validation criteria: SAR ratio M2/M1 (%)	51.81

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	1.26	0.74	0.38	0.19	0.10	0.06	0.02	0.02	0.02	0.01	0.01	0.01
	4	7	7	2	2	0	6	6	2	5	7	0



F. 3D Image



10# SAR Measurement at U-NII-2c (Body, Validation Plane)

Date of measurement: 23/7/2025

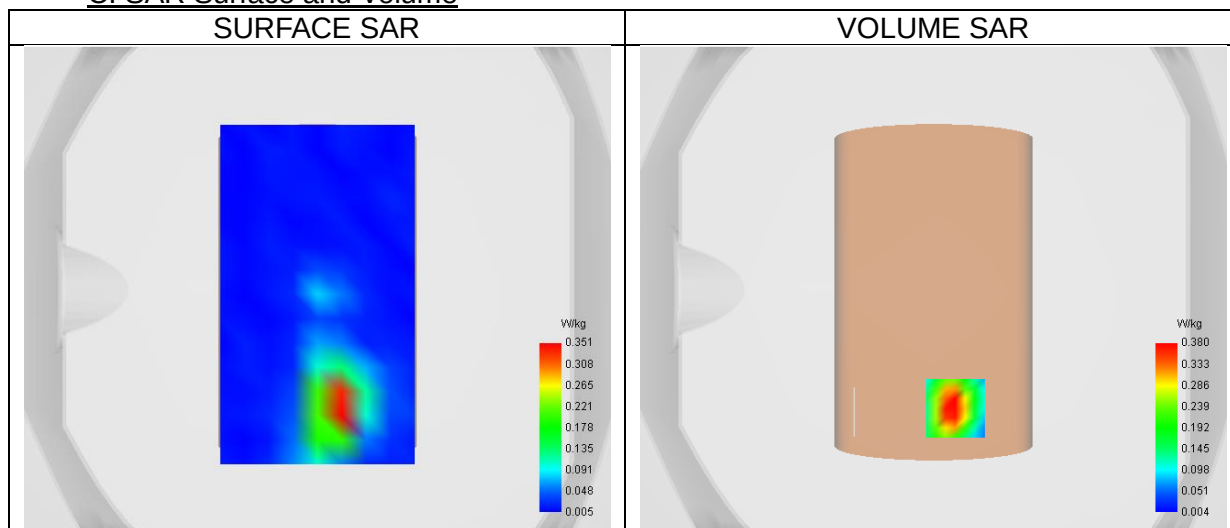
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.36
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-2c
Signal	IEEE 802.11 a
Channels/Frequency	Middle (120)/ frequency 5600.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5600.00
Relative permittivity (real part)	35.63
Relative permittivity (imaginary part)	16.08
Conductivity (S/m)	5.00

C. SAR Surface and Volume



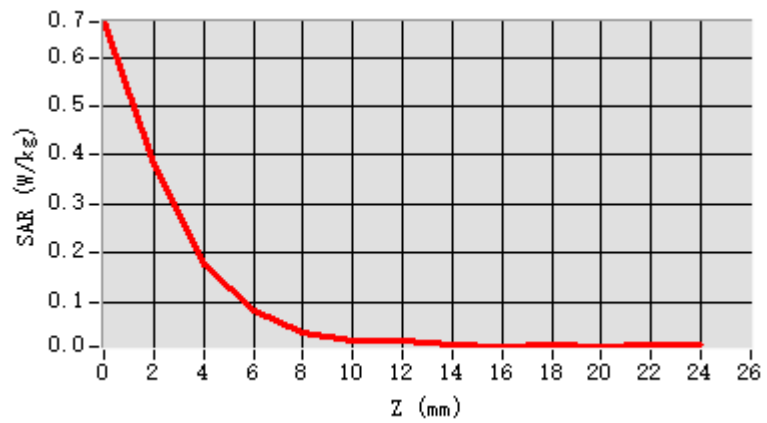
Maximum location: X=9.00, Y=-49.00 ; SAR Peak: 0.71 W/kg

D. SAR 1g & 10g

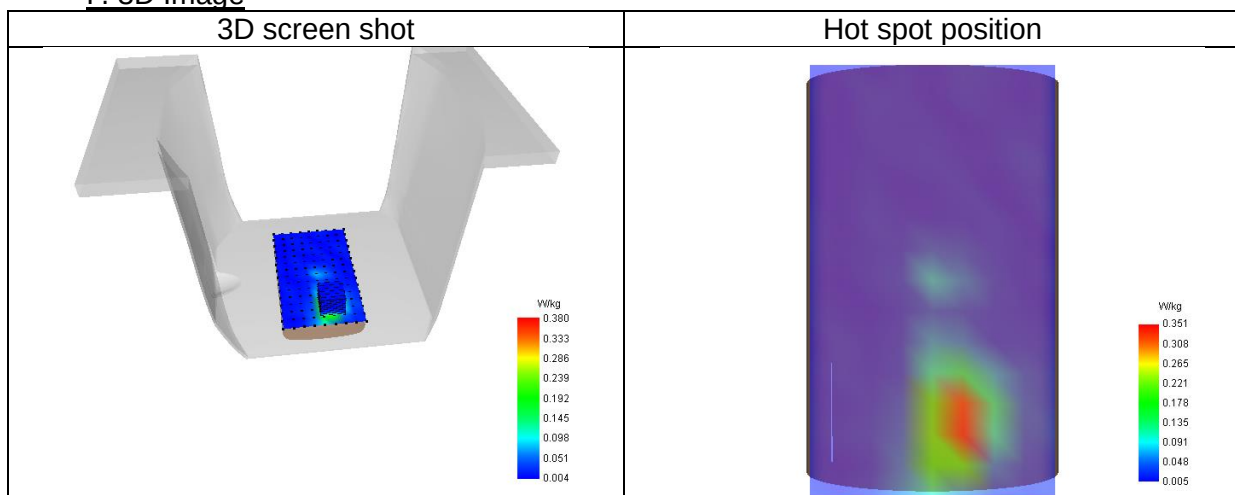
SAR 10g (W/Kg)	0.081
SAR 1g (W/Kg)	0.228
Variation (%)	-0.10
Horizontal validation criteria: minimum distance (mm)	8.00
Vertical validation criteria: SAR ratio M2/M1 (%)	50.03

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	0.67	0.38	0.17	0.08	0.03	0.02	0.02	0.01	0.01	0.01	0.00	0.01
	2	0	6	2	9	2	1	3	0	2	9	4



F. 3D Image



11# SAR Measurement at U-NII-3 (Body, Validation Plane)

Date of measurement: 12/7/2025

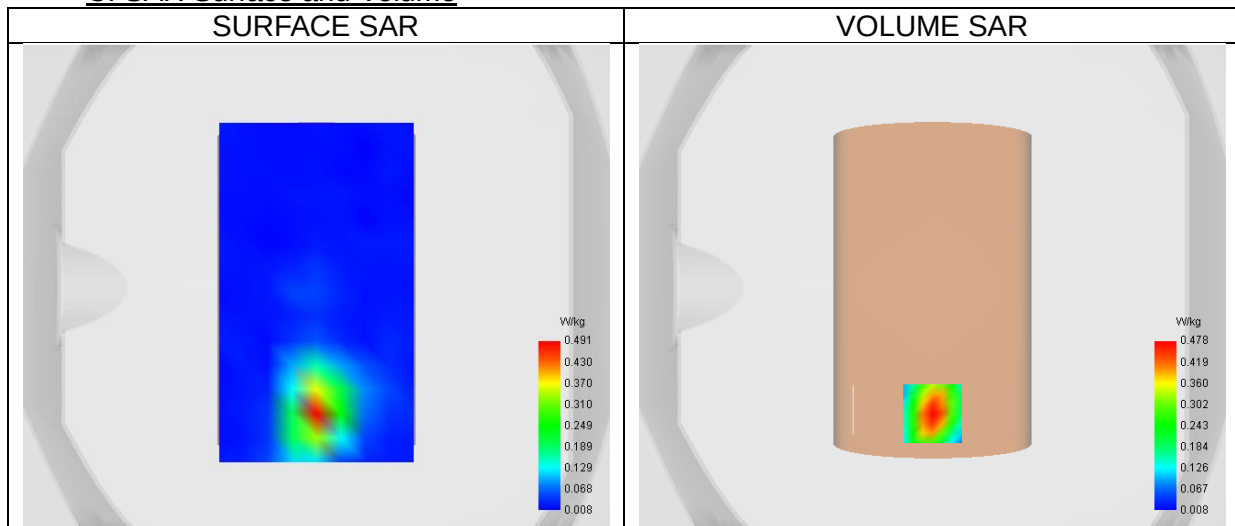
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.35
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-3
Signal	IEEE 802.11 a
Channels/Frequency	Middle (157)/ frequency 5785.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5785.00
Relative permittivity (real part)	35.97
Relative permittivity (imaginary part)	15.71
Conductivity (S/m)	5.05

C. SAR Surface and Volume



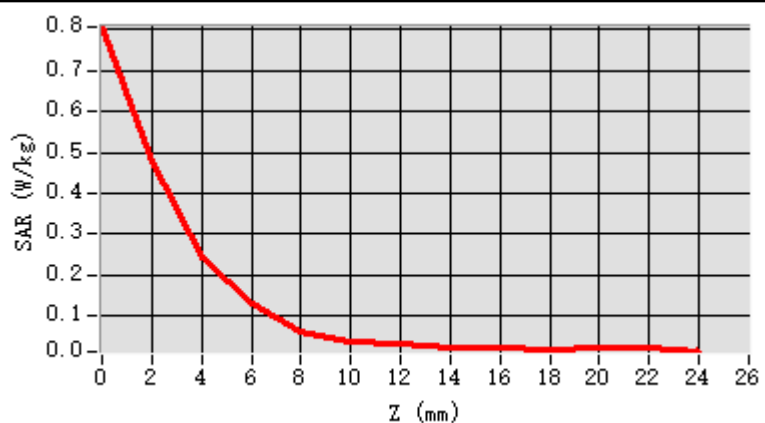
Maximum location: X=0.00, Y=-52.00 ; SAR Peak: 0.83 W/kg

D. SAR 1g & 10g

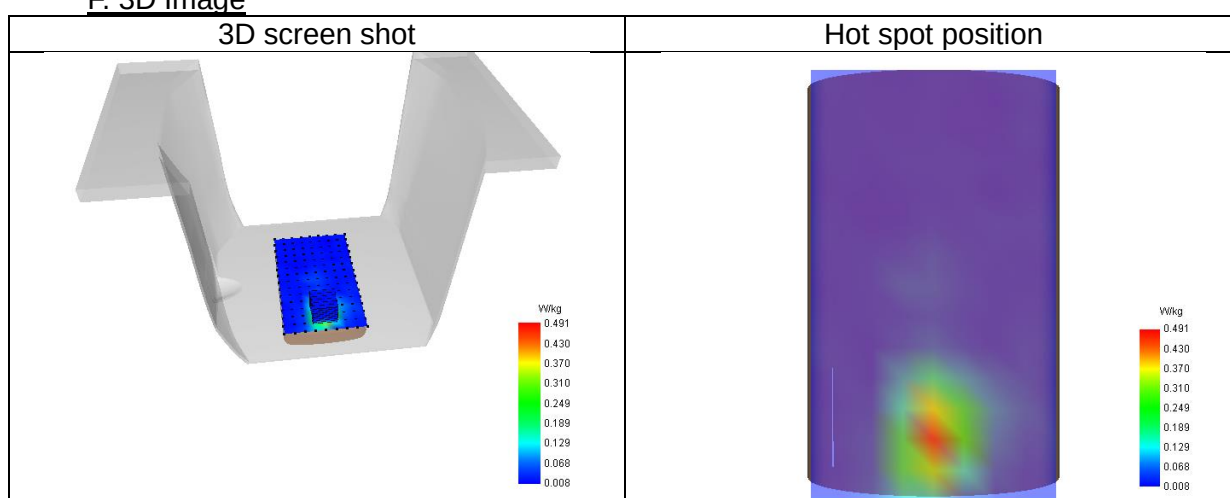
SAR 10g (W/Kg)	0.103
SAR 1g (W/Kg)	0.271
Variation (%)	4.48
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	50.84

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	0.80	0.47	0.24	0.13	0.06	0.03	0.03	0.02	0.02	0.01	0.02	0.02
	7	8	3	1	3	6	3	2	3	7	2	2



F. 3D Image



12# SAR Measurement at U-NII-3 (Body, Validation Plane)

Date of measurement: 12/7/2025

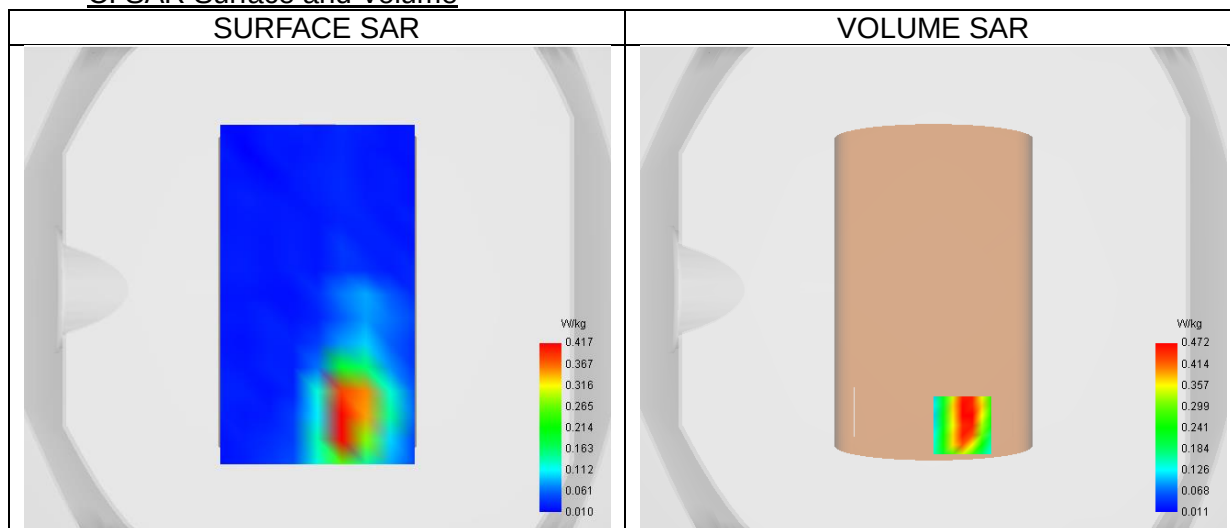
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.35
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-3
Signal	IEEE 802.11 a
Channels/Frequency	Middle (157)/ frequency 5785.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5785.00
Relative permittivity (real part)	35.97
Relative permittivity (imaginary part)	15.71
Conductivity (S/m)	5.05

C. SAR Surface and Volume



Maximum location: X=12.00, Y=-56.00 ; SAR Peak: 0.92 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.104
SAR 1g (W/Kg)	0.280
Variation (%)	-2.29
Horizontal validation criteria: minimum distance (mm)	8.94
Vertical validation criteria: SAR ratio M2/M1 (%)	54.87

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	0.82	0.47	0.19	0.11	0.06	0.04	0.03	0.02	0.02	0.01	0.01	0.01
	3	2	0	6	1	9	2	3	2	9	8	8